

Luminaire Photograph



Light Output Ratio:	53.9%	
Luminaire Power:	7.934 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.10	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-10-8

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: NF2W757GRT-V4 Ra: 90
REFLECTOR : MR-1066 120R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

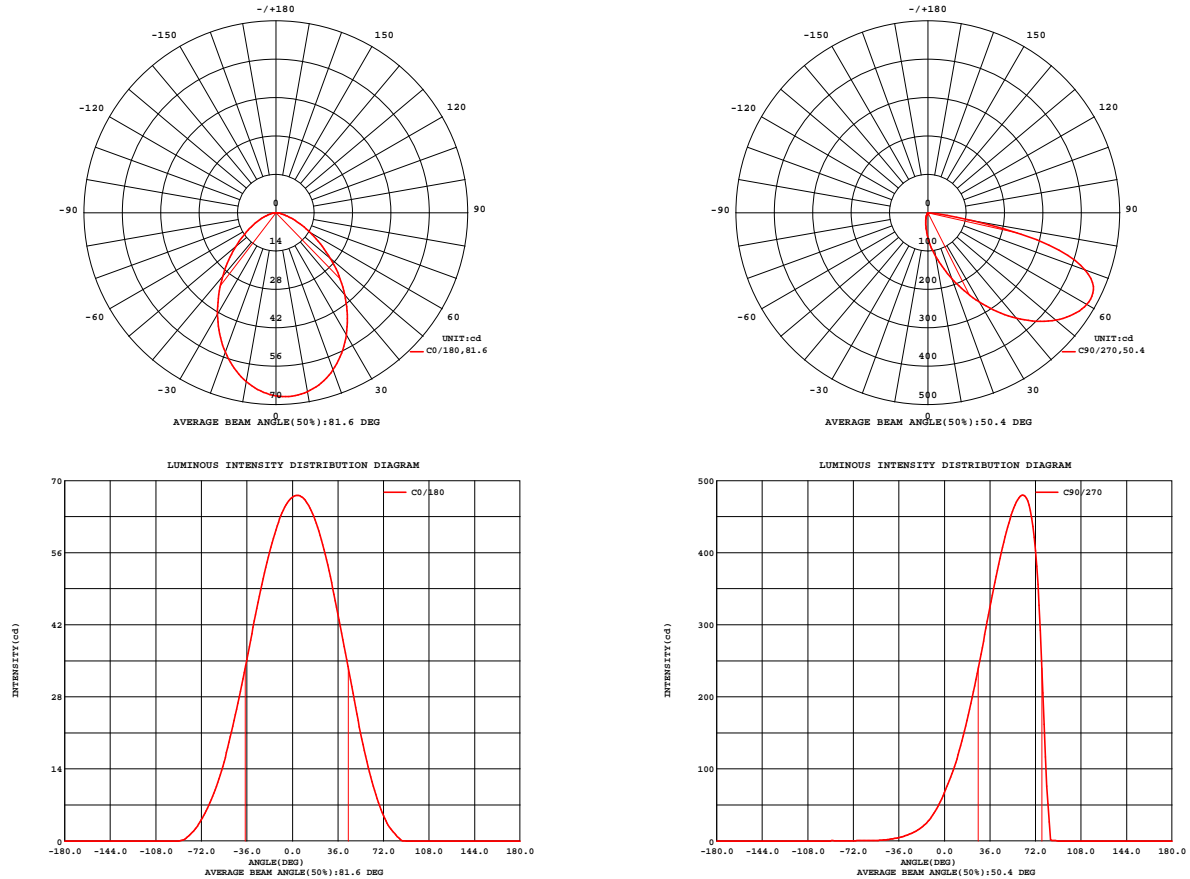


Fig. C0/C180

Fig. C90/C270

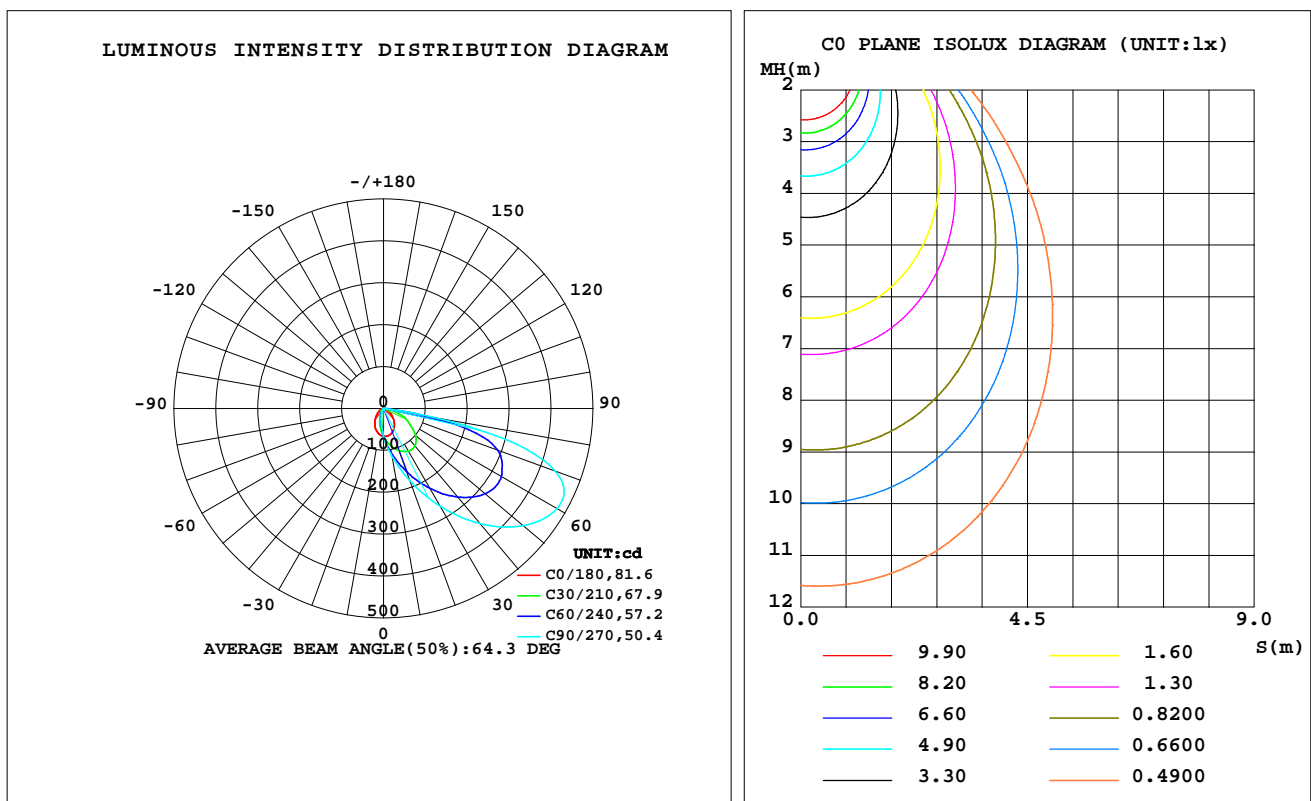
C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature: 25.3 °C
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.1653A P:7.9339W PF:1.0000 Freq:59.98Hz Lamp Flux:856.582x1 lm		
NAME: OZ48-WF-8	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2510080763
MFR.: RISE	SUR.: 0.002132m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 58.17 lm/W			
MODEL	NICHIA	I _{max} (cd)	479.8	S/MH(C0/180)	1.01
NOMINAL POWER(W)	8	LOR(%)	53.9	S/MH(C90/270)	0.34
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	461.48	η UP,DN(C0-180)	0.0,51.2
NOMINAL FLUX(lm)	856.582	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,2.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	η down(%)	53.9	CIBSE SHR MAX	0.10



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	66.26	97.91	114.0	94.81	62.55	40.67	33.64	42.43	0- 10	6.470	6.470	1.4,0.76
20	60.96	133.4	182.5	125.9	54.13	23.59	16.37	25.78	10- 20	20.79	27.26	5.91,3.18
30	51.36	169.0	268.1	155.6	42.71	13.00	7.762	14.88	20- 30	38.86	66.13	14.3,7.72
40	39.10	196.9	358.5	175.0	30.29	6.646	3.302	7.953	30- 40	60.06	126.2	27.3,14.7
50	25.98	209.2	435.2	175.0	19.18	2.865	1.119	3.606	40- 50	80.31	206.5	44.7,24.1
60	14.40	199.3	478.0	149.8	10.61	0.9665	0.5963	1.245	50- 60	93.06	299.6	64.9,35
70	6.120	167.6	436.2	110.9	4.926	0.3968	0.3392	0.4655	60- 70	92.93	392.5	85,45.8
80	1.710	55.71	116.7	36.15	1.441	0.2062	0.1029	0.2494	70- 80	63.05	455.5	98.7,53.2
90	0	0	0	0	0	0	0	0	80- 90	5.945	461.5	100,53.9
100	0	0	0	0	0	0	0	0	90-100	0	461.5	100,53.9
110	0	0	0	0	0	0	0	0	100-110	0	461.5	100,53.9
120	0	0	0	0	0	0	0	0	110-120	0	461.5	100,53.9
130	0	0	0	0	0	0	0	0	120-130	0	461.5	100,53.9
140	0	0	0	0	0	0	0	0	130-140	0	461.5	100,53.9
150	0	0	0	0	0	0	0	0	140-150	0	461.5	100,53.9
160	0	0	0	0	0	0	0	0	150-160	0	461.5	100,53.9
170	0	0	0	0	0	0	0	0	160-170	0	461.5	100,53.9
180	0	0	0	0	0	0	0	0	170-180	0	461.5	100,53.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:NF2W757GRT-V4 Ra:90
REFLECTOR :MR-1066 120R
NOT DRIVER:48V
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.1653A P:7.9339W PF:1.0000 Freq:59.98Hz
Lamp Flux:856.582x1 lm

NAME: OZ48-WF-8

TYPE:

WEIGHT:

SPEC.: 3000K

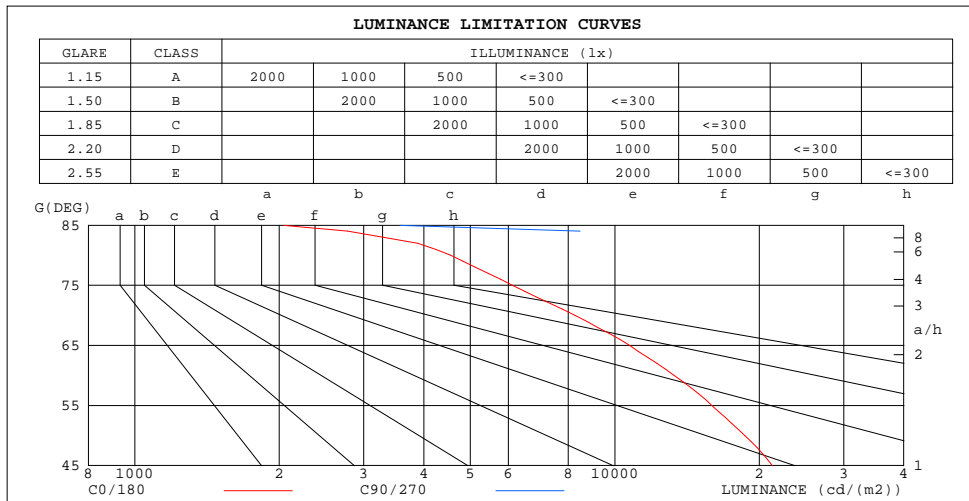
DIM.:

SERIAL No.: 2510080763

MFR.: RISE

SUR.: 0.002132m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	G(270)	
85	2042	3568
80	4545	315693
75	6108	593072
70	8259	598819
65	10736	528231
60	13289	448923
55	15945	378208
50	18654	317907
45	21285	265415

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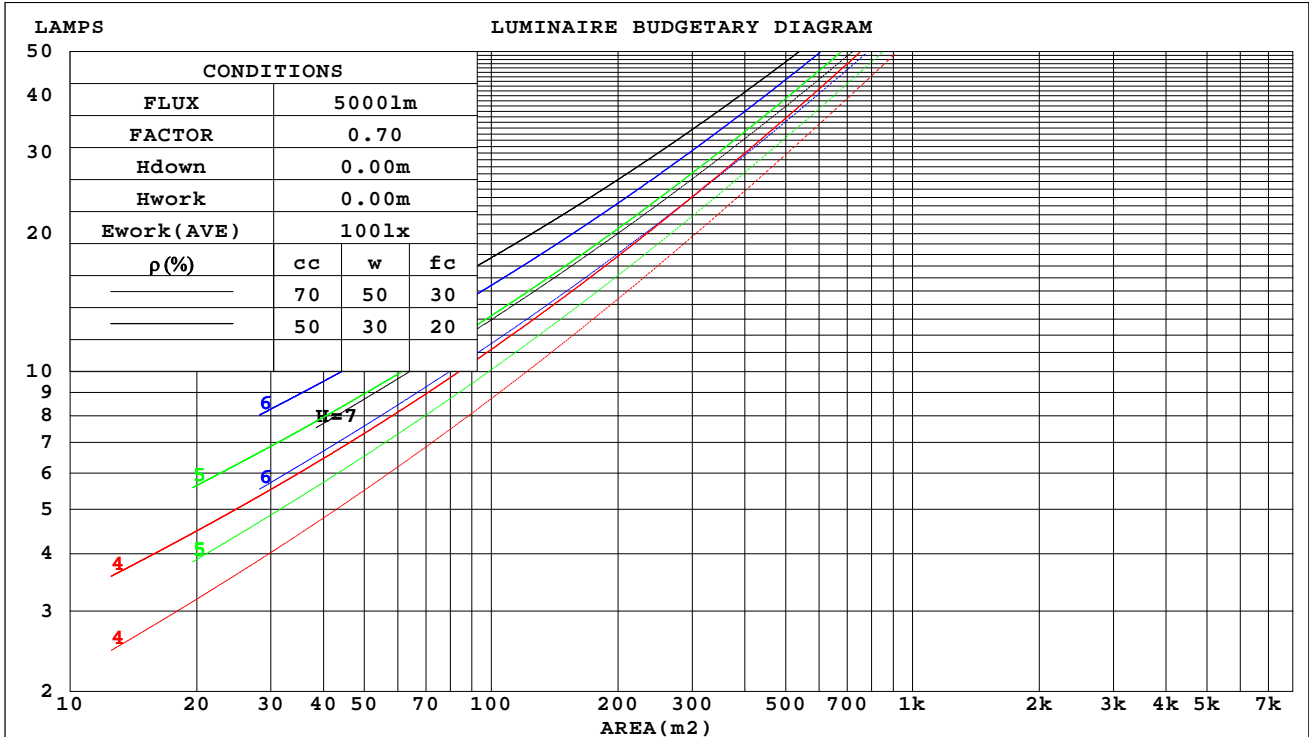
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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MFR.: RISE	SUR.: 0.002132m2	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0														
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρ_{fc}	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	.64	.64	.64	.63	.63	.63	.60	.60	.60	.57	.57	.57	.55	.55	.55	.54														
1.0	.54	.52	.49	.53	.51	.48	.51	.49	.47	.49	.47	.45	.47	.45	.44	.43														
2.0	.46	.41	.38	.45	.40	.37	.43	.39	.36	.41	.38	.35	.39	.37	.34	.33														
3.0	.39	.34	.29	.38	.33	.29	.36	.32	.29	.35	.31	.28	.33	.30	.27	.26														
4.0	.33	.28	.24	.33	.27	.23	.31	.27	.23	.30	.26	.23	.29	.25	.22	.21														
5.0	.29	.24	.19	.28	.23	.19	.27	.23	.19	.26	.22	.19	.25	.21	.19	.17														
6.0	.26	.20	.16	.25	.20	.16	.24	.19	.16	.23	.19	.16	.22	.19	.16	.14														
7.0	.23	.18	.14	.22	.17	.14	.22	.17	.14	.21	.17	.14	.20	.16	.13	.12														
8.0	.21	.16	.12	.20	.15	.12	.19	.15	.12	.19	.15	.12	.18	.14	.12	.11														
9.0	.19	.14	.11	.18	.14	.10	.18	.13	.10	.17	.13	.10	.17	.13	.10	.09														
10.0	.17	.12	.09	.17	.12	.09	.16	.12	.09	.16	.12	.09	.15	.12	.09	.08														



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WEC AND CCEC

Test:U:47.997V I:0.1653A P:7.9339W PF:1.0000 Freq:59.98Hz Lamp Flux:856.582x1 lm		
NAME: OZ48-WF-8	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2510080763
MFR.: RISE	SUR.: 0.002132m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.198	.113	.036	.194	.111	.035	.187	.107	.034	.180	.104	.033	.174	.101	.032	
2.0	.187	.102	.031	.183	.101	.031	.177	.098	.031	.171	.096	.030	.165	.093	.029	
3.0	.171	.091	.027	.168	.090	.027	.162	.088	.027	.157	.086	.026	.152	.084	.026	
4.0	.156	.081	.024	.153	.080	.024	.148	.078	.023	.143	.077	.023	.138	.075	.023	
5.0	.142	.072	.021	.140	.072	.021	.135	.070	.021	.131	.069	.020	.126	.068	.020	
6.0	.130	.065	.019	.128	.065	.019	.124	.063	.018	.120	.062	.018	.116	.061	.018	
7.0	.120	.059	.017	.118	.059	.017	.114	.058	.017	.111	.057	.017	.107	.056	.016	
8.0	.111	.054	.015	.109	.054	.015	.106	.053	.015	.103	.052	.015	.100	.051	.015	
9.0	.103	.050	.014	.102	.050	.014	.099	.049	.014	.096	.048	.014	.093	.047	.014	
10.0	.096	.046	.013	.095	.046	.013	.092	.045	.013	.090	.045	.013	.087	.044	.013	

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.103	.103	.103	.088	.088	.088	.060	.060	.060	.034	.034	.034	.011	.011	.011		
1.0	.099	.084	.070	.085	.072	.060	.058	.050	.042	.033	.029	.024	.011	.009	.008		
2.0	.097	.071	.049	.083	.061	.043	.057	.042	.030	.033	.025	.017	.011	.008	.006		
3.0	.094	.062	.036	.080	.053	.032	.055	.037	.022	.032	.022	.013	.010	.007	.004		
4.0	.090	.055	.028	.077	.047	.025	.053	.033	.017	.031	.019	.010	.010	.006	.003		
5.0	.086	.050	.023	.074	.043	.020	.051	.030	.014	.029	.018	.008	.009	.006	.003		
6.0	.082	.045	.019	.070	.039	.016	.048	.027	.012	.028	.016	.007	.009	.005	.002		
7.0	.078	.042	.016	.067	.036	.014	.046	.025	.010	.027	.015	.006	.009	.005	.002		
8.0	.074	.038	.014	.064	.033	.012	.044	.023	.009	.026	.014	.005	.008	.005	.002		
9.0	.070	.036	.012	.061	.031	.011	.042	.022	.008	.024	.013	.005	.008	.004	.002		
10.0	.067	.033	.011	.058	.029	.010	.040	.020	.007	.023	.012	.004	.008	.004	.001		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2510080763		
MFR.: RISE					SUR.: 0.002132m2			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	27.3	29.1	27.6	29.3	29.5	39.0	40.8	39.3	41.0	41.2
3H	27.7	29.3	28.0	29.6	29.8	42.4	44.1	42.7	44.3	44.6
4H	27.7	29.3	28.1	29.6	29.8	43.8	45.3	44.1	45.6	45.9
6H	27.7	29.1	28.0	29.4	29.7	44.3	45.8	44.7	46.1	46.4
8H	27.6	29.1	28.0	29.3	29.7	44.3	45.8	44.7	46.1	46.4
12H	27.6	28.9	27.9	29.3	29.6	44.3	45.6	44.6	46.0	46.3
4H 2H	32.4	34.0	32.8	34.3	34.5	39.2	40.7	39.5	41.0	41.3
3H	32.9	34.2	33.2	34.5	34.9	42.9	44.3	43.3	44.6	44.9
4H	32.9	34.1	33.3	34.5	34.8	44.4	45.7	44.8	46.0	46.4
6H	32.8	33.9	33.2	34.3	34.7	45.1	46.2	45.5	46.6	47.0
8H	32.8	33.8	33.2	34.2	34.6	45.1	46.2	45.6	46.6	46.9
12H	32.7	33.7	33.2	34.1	34.5	45.1	46.1	45.5	46.4	46.9
8H 4H	35.9	37.0	36.3	37.3	37.7	44.5	45.5	44.9	45.9	46.3
6H	35.9	36.8	36.4	37.2	37.6	45.2	46.1	45.7	46.5	47.0
8H	35.9	36.7	36.4	37.1	37.6	45.3	46.1	45.8	46.5	47.0
12H	35.9	36.5	36.4	37.0	37.5	45.3	45.9	45.7	46.4	46.9
12H 4H	36.2	37.2	36.7	37.6	38.0	44.4	45.4	44.9	45.8	46.2
6H	36.3	37.1	36.8	37.5	38.0	45.2	46.0	45.7	46.4	46.9
8H	36.3	37.0	36.8	37.4	37.9	45.3	45.9	45.8	46.4	46.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.0 / - 0.0				
1.5H	+ 0.2 / - 0.4					+ 0.1 / - 0.1				
2.0H	+ 0.6 / - 0.5					+ 0.4 / - 0.3				

CIE Pub.117, 856.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.5)
Area: 0.002132 m2

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UTILIZATION FACTORS TABLE

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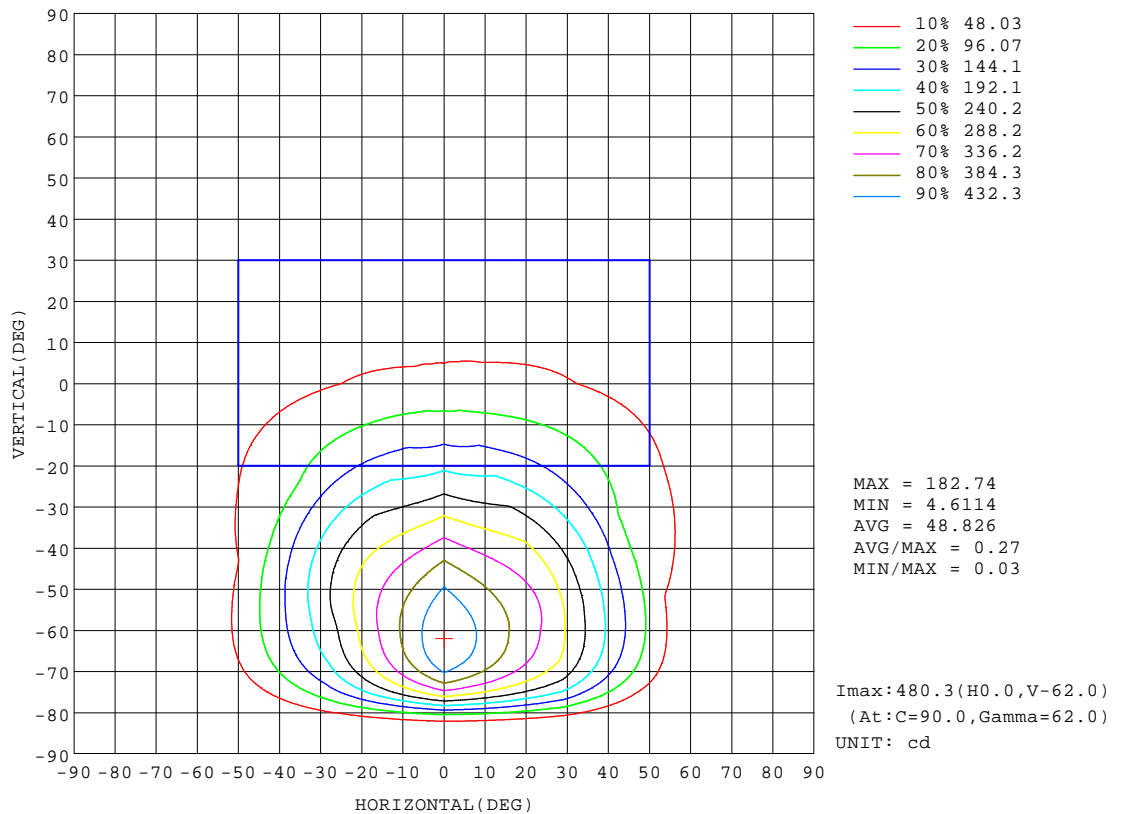
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	26	19	14	25	19	14	25	18	14	10
0.80	31	24	19	31	24	19	29	23	19	14
1.00	36	29	24	35	28	24	34	30	24	19
1.25	40	33	29	39	33	28	38	32	28	23
1.50	43	37	32	42	36	32	40	35	31	26
2.00	48	42	38	47	41	37	45	40	37	32
2.50	51	45	41	49	45	41	47	43	40	35
3.00	53	48	45	52	47	44	49	46	43	38
4.00	56	52	49	54	51	48	52	49	47	42
5.00	57	54	52	56	53	51	53	51	49	44
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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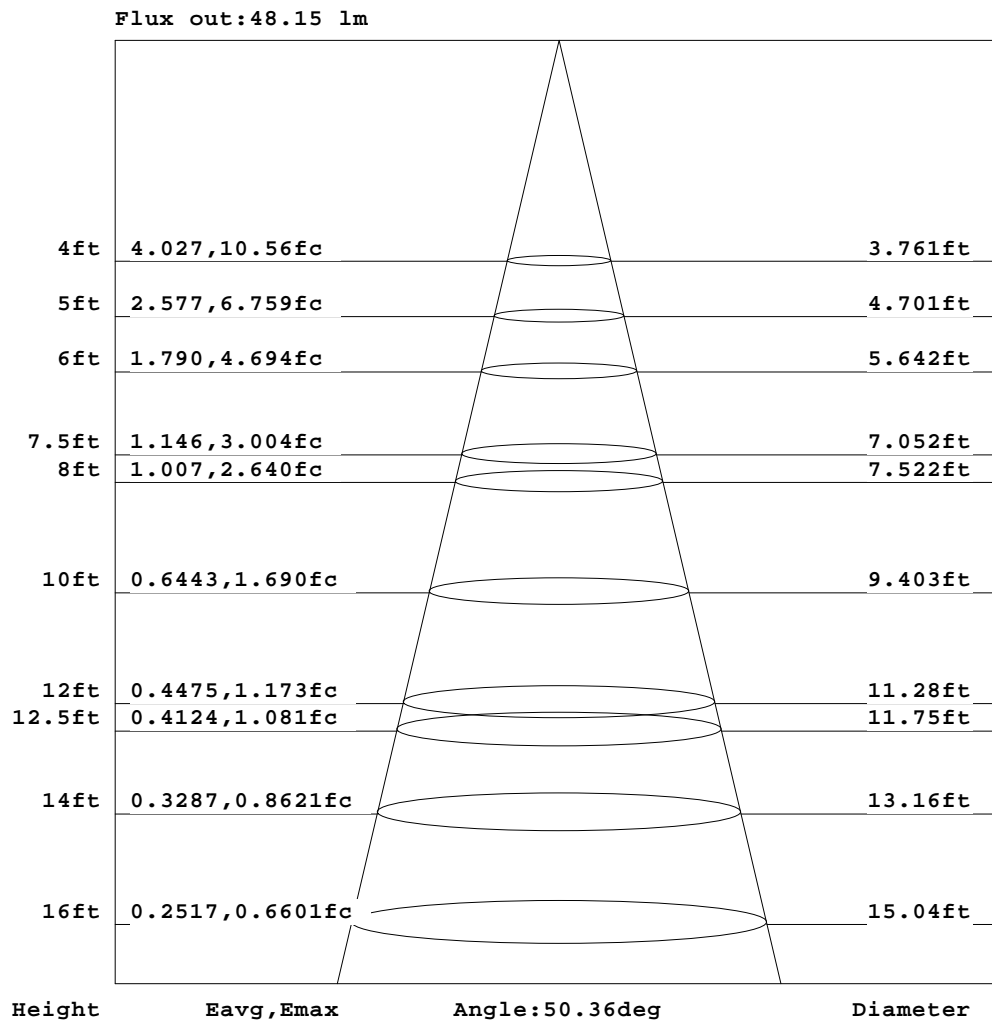


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AAI Figure

Test:U:47.997V I:0.1653A P:7.9339W PF:1.0000 Freq:59.98Hz Lamp Flux:856.582x1 lm		
NAME: OZ48-WF-8	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2510080763
MFR.: RISE	SUR.: 0.002132m2	Shielding Angle:



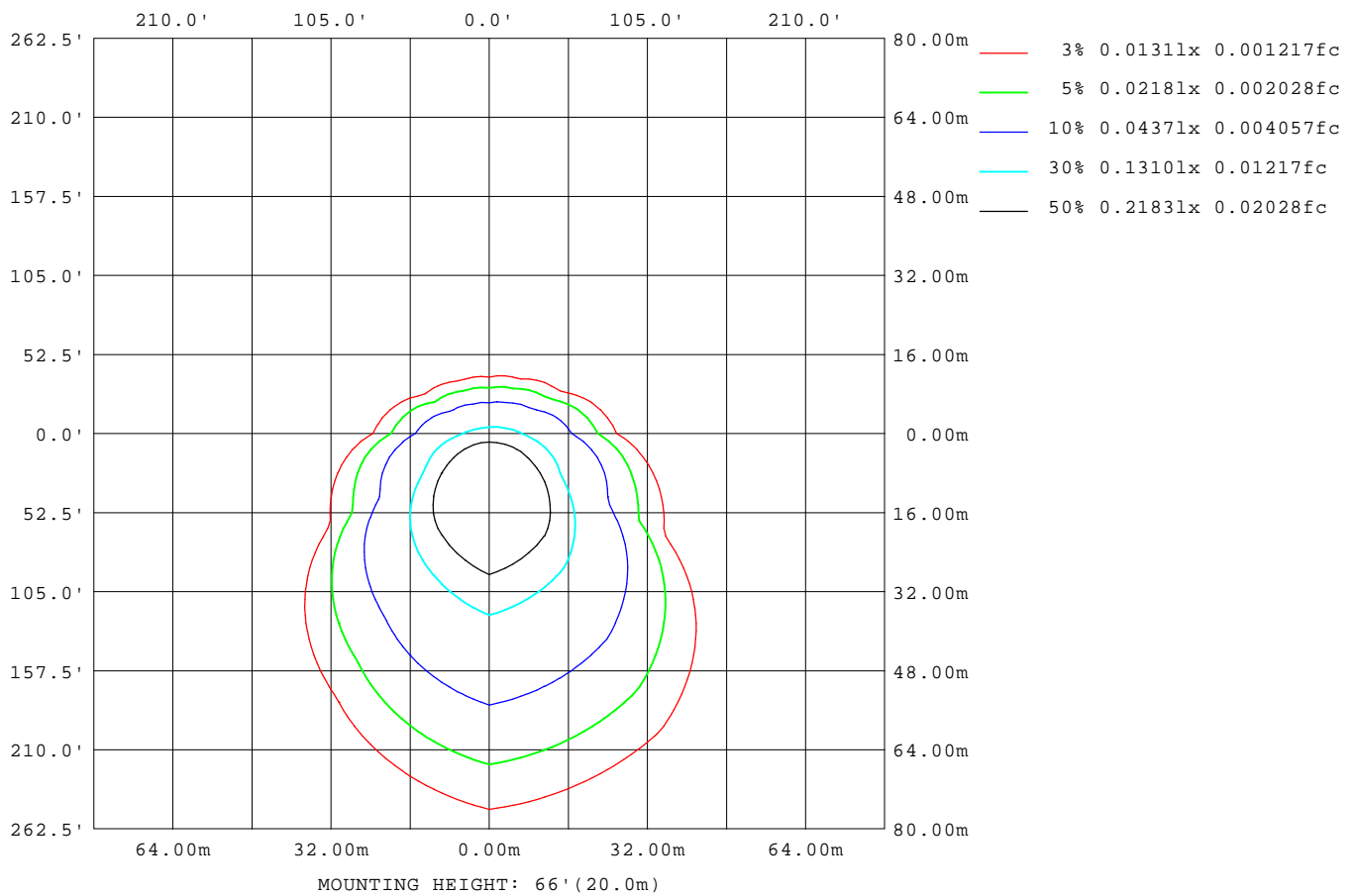
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-10-8

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: NF2W757GRT-V4 Ra: 90
REFLECTOR : MR-1066 120R
NOT DRIVER: 48V
30minutes warm-up

ISOLUX DIAGRAM

Test:U:47.997V I:0.1653A P:7.9339W PF:1.0000 Freq:59.98Hz Lamp Flux:856.582x1 lm		
NAME: OZ48-WF-8	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2510080763
MFR.: RISE	SUR.: 0.002132m2	Shielding Angle:



C Range: 0 - 360DEG
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γ Range: 0 - 180DEG
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Humidity: 65.0%
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Remarks: LAMP: NF2W757GRT-V4 Ra: 90
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NOT DRIVER: 48V
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LED Avg.L Report

Test:U:47.997V I:0.1653A P:7.9339W PF:1.0000 Freq:59.98Hz Lamp Flux:856.582x1 lm		
NAME: OZ48-WF-8	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2510080763
MFR.: RISE	SUR.: 0.002132m2	Shielding Angle:

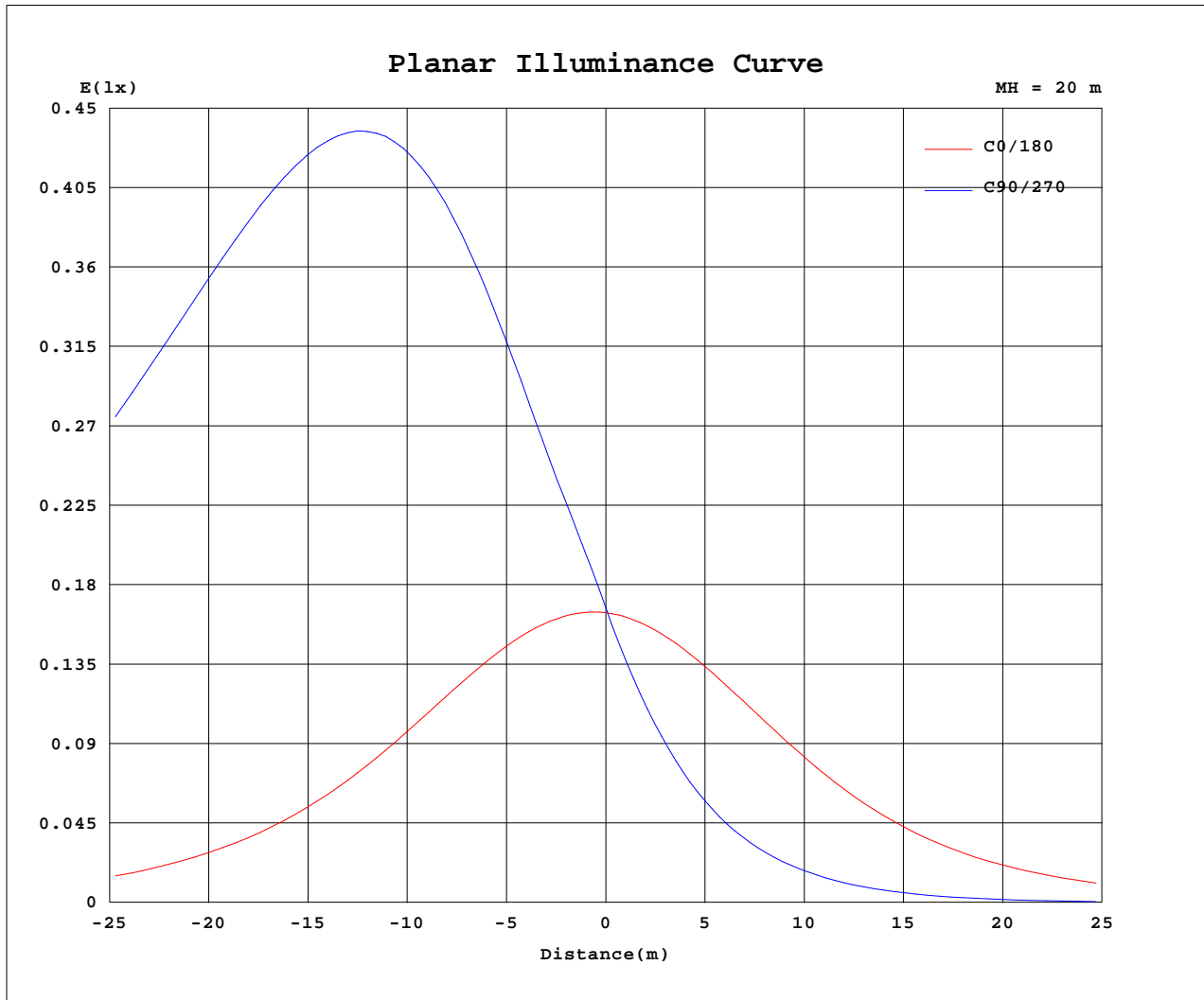
AvgL	cd/m2
L_0~180(65)av	9612
L_0~180(75)av	5749
L_0~180(85)av	2037
L_90~270(65)av	264242
L_90~270(75)av	296286
L_90~270(85)av	2565
L_45(65)av	82532
L_45(75)av	88248
L_45(85)av	13041

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-10-8

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:NF2W757GRT-V4 Ra:90
REFLECTOR :MR-1066 120R
NOT DRIVER:48V
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2025-10-8

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: NF2W757GRT-V4 Ra:90
 REFLECTOR :MR-1066 120R
 NOT DRIVER:48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.1653A P:7.9339W PF:1.0000 Freq:59.98Hz Lamp Flux:856.582x1 lm		
NAME: OZ48-WF-8	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2510080763
MFR.: RISE	SUR.: 0.002132m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8						
5	67.1	78.1	86.0	88.7	84.9	76.3	65.2	55.5	49.5	47.7	50.3	56.9						
10	66.3	88.3	107	114	105	84.7	62.5	45.2	36.2	33.6	37.3	47.6						
15	64.2	98.0	132	146	128	92.3	58.8	36.2	26.1	23.5	27.3	39.1						
20	61.0	107	160	183	153	98.5	54.1	28.5	18.7	16.4	19.9	31.7						
25	56.6	113	190	224	180	103	48.7	22.1	13.2	11.3	14.2	25.2						
30	51.4	118	219	268	207	104	42.7	16.8	9.27	7.76	10.1	19.7						
35	45.4	119	249	314	232	102	36.5	12.5	6.34	5.16	7.01	15.1						
40	39.1	117	276	359	253	97.3	30.3	9.15	4.17	3.30	4.68	11.2						
45	32.6	110	299	400	267	88.9	24.5	6.46	2.59	1.98	2.94	8.12						
50	26.0	100	317	435	272	77.6	19.2	4.31	1.44	1.12	1.67	5.54						
55	19.8	84.9	326	462	267	63.2	14.5	2.64	0.71	0.73	0.84	3.50						
60	14.4	71.9	325	478	248	51.7	10.6	1.40	0.54	0.60	0.51	1.98						
65	9.83	59.0	313	475	223	40.1	7.49	0.57	0.48	0.74	0.43	0.96						
70	6.12	43.9	289	436	194	28.3	4.93	0.29	0.50	0.34	0.49	0.44						
75	3.43	27.3	229	327	144	17.6	2.92	0.25	0.26	0.08	0.29	0.26						
80	1.71	12.8	98.1	117	63.5	8.78	1.44	0.20	0.21	0.10	0.29	0.21						
85	0.39	2.07	6.98	0.66	5.72	2.24	0.37	0.08	0.24	0.29	0.20	0.06						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

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