Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P941377

Luminaire Tested: **GALN-SB4D-850-U-T3**

Issue Date: 1/21/2025

Report Generated By 670246001

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Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P941377
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB4D-850-U-T3
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	39036 lumens
Efficiency:	N/A
Efficacy:	133.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G4
Input Watts (W):	293.6
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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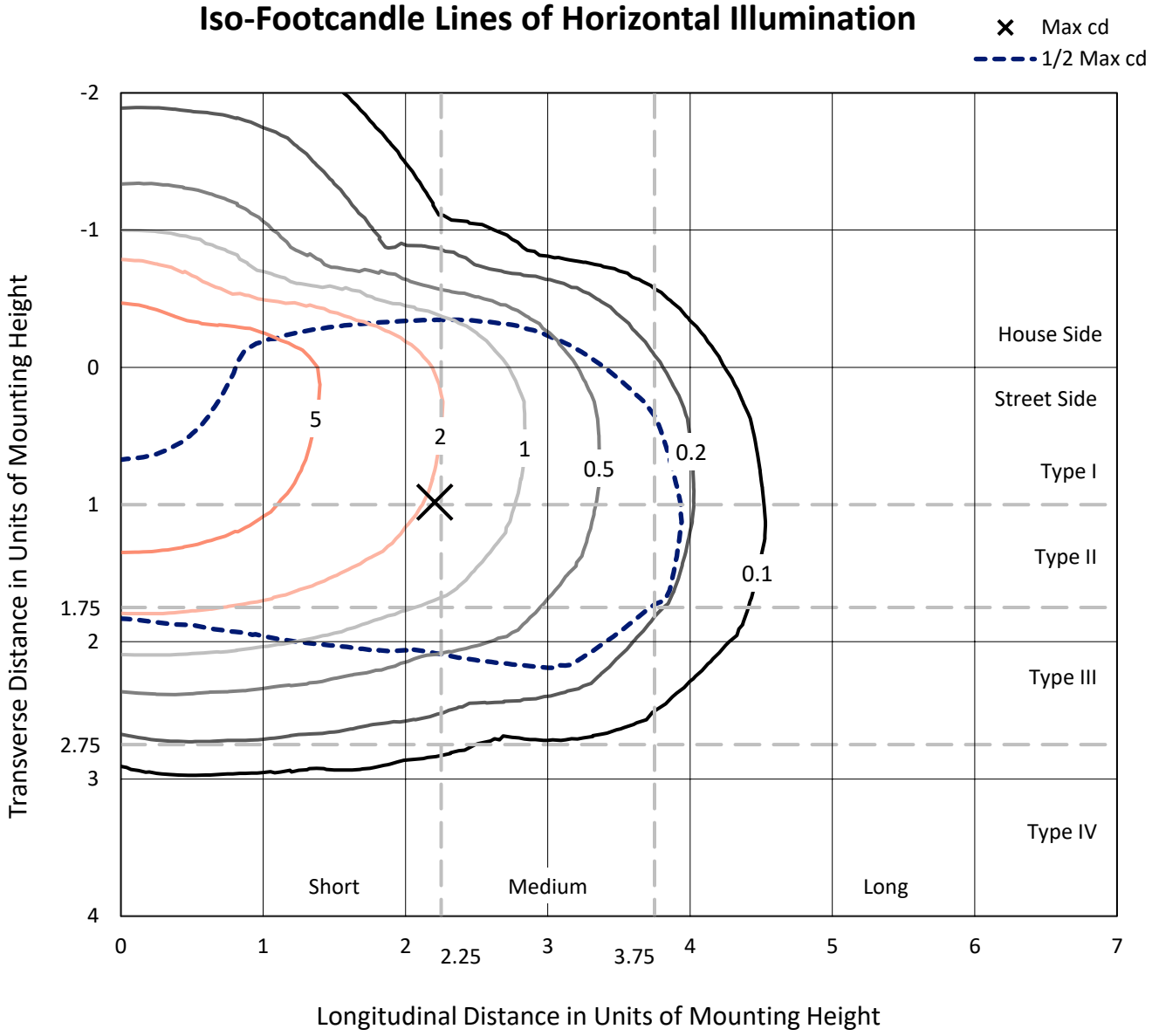
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type III - Short - N/A

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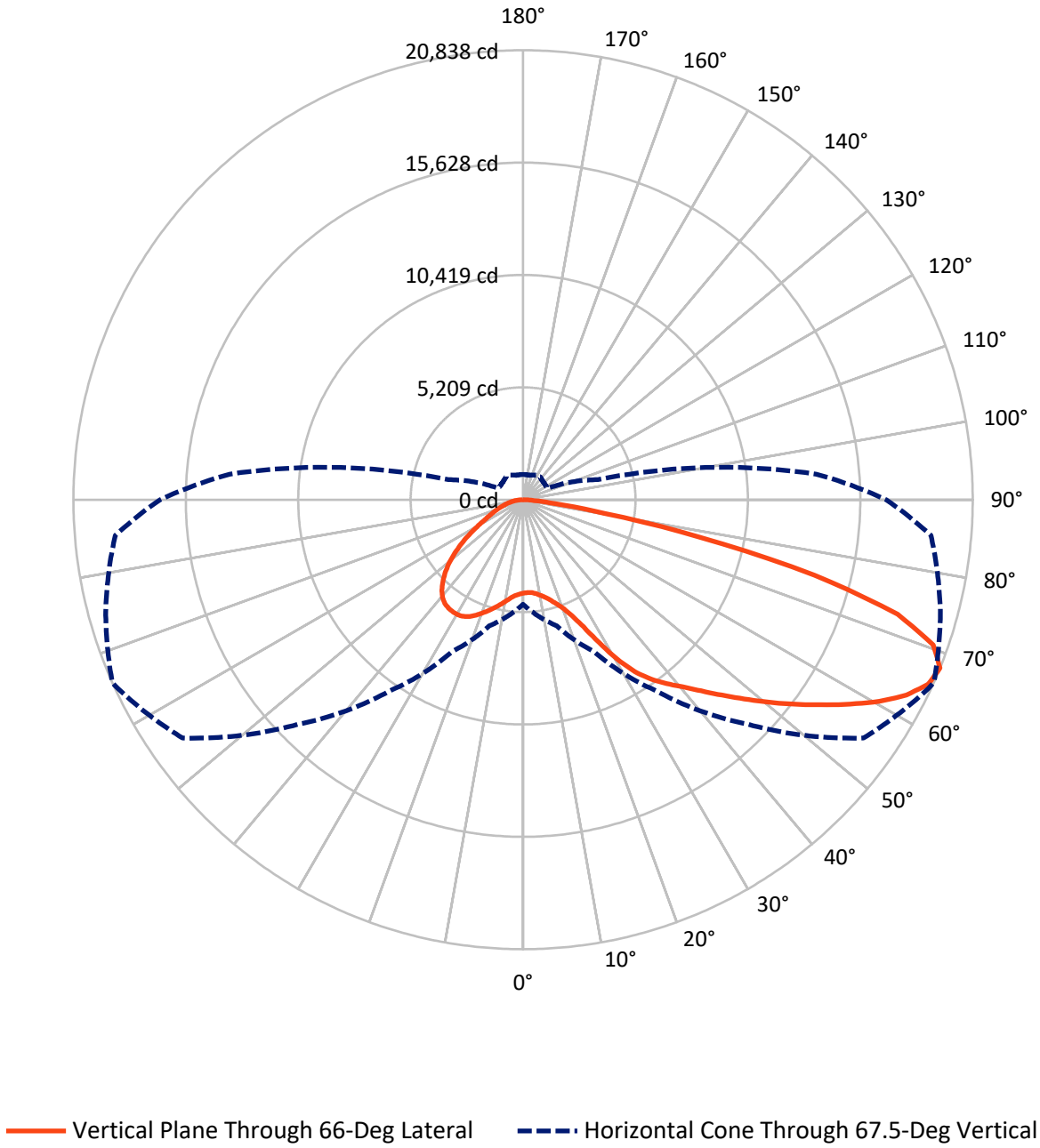
Luminous Intensity Polar Plot



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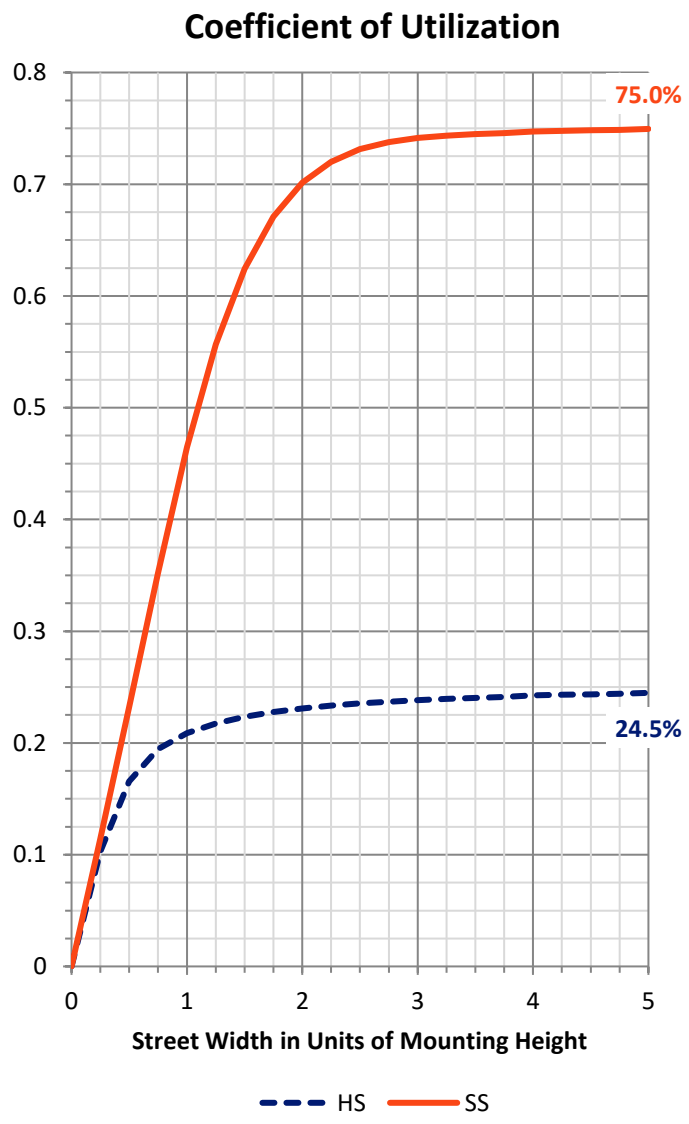
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9706.2	0.0	9706.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	29329.8	0.0	29329.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	39036.0	0.0	39036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.3	1.1
10°-20°	1418.2	3.6
20°-30°	2733.6	7.0
30°-40°	4792.9	12.3
40°-50°	7125.5	18.3
50°-60°	9032.3	23.1
60°-70°	8837.9	22.6
70°-80°	4215.8	10.8
80°-90°	450.6	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39036.0	100.0
0°-180°	39036.0	100.0



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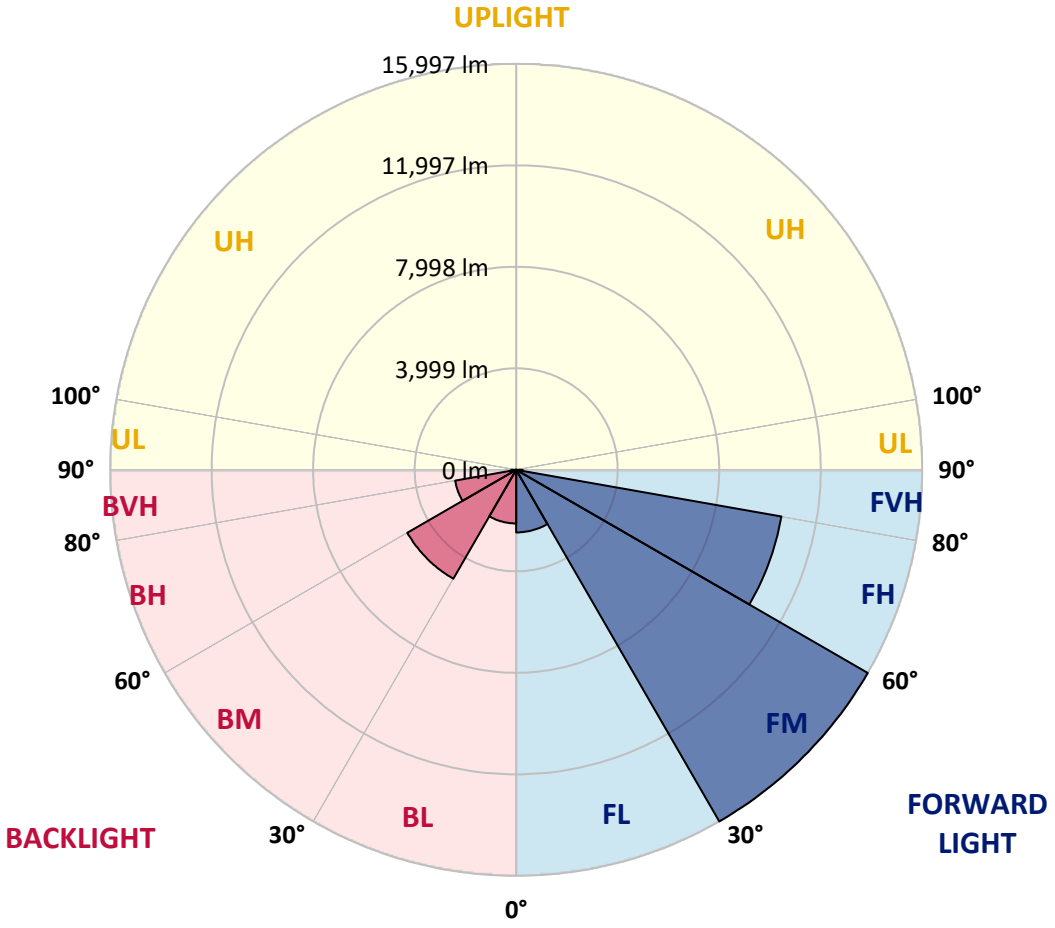
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2466.7	6.3			
FM	(30°-60°)	15996.6	41.0			
FH	(60°-80°)	10611.1	27.2			G4/12000
FVH	(80°-90°)	255.4	0.7			G3/500
BL	(0°-30°)	2114.4	5.4	B3/2500		
BM	(30°-60°)	4954.1	12.7	B3/5000		
BH	(60°-80°)	2442.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	195.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	*4329.6*	4329.6
2.5°	4284.5	4309.1	4302.9	4292.7	4290.6	4294.7	4300.9	4307.0	*4305.0*	4315.3
5°	4272.2	4296.8	4294.7	4294.7	4302.9	4319.4	4329.6	4339.9	*4329.6*	4341.9
7.5°	4280.4	4298.8	4307.0	4315.3	4335.8	4366.5	4391.1	4413.7	*4401.4*	4415.7
10°	4385.0	4399.3	4407.5	4407.5	4421.9	4456.8	4481.4	4522.4	*4512.1*	4534.7
12.5°	4575.7	4590.1	4590.1	4581.9	4592.1	4614.7	4622.9	4668.0	*4649.6*	4686.5
15°	4809.5	4838.3	4815.7	4801.3	4805.4	4828.0	4825.9	4860.8	*4842.4*	4873.1
17.5°	5068.0	5104.9	5068.0	5065.9	5057.7	5082.3	5084.4	5115.1	*5082.3*	5104.9
20°	5373.6	5424.8	5394.1	5404.3	5385.9	5396.1	5406.4	5451.5	*5400.2*	5416.6
22.5°	5804.3	5865.8	5833.0	5871.9	5859.6	5851.4	5849.4	5929.4	*5849.4*	5855.5
25°	6431.9	6505.7	6448.3	6501.6	6501.6	6528.3	6559.0	6661.6	*6528.3*	6489.3
27.5°	7358.9	7432.7	7319.9	7352.7	7342.5	7408.1	7375.3	7629.6	*7486.1*	7422.5
30°	8474.6	8605.9	8392.6	8384.4	8374.1	8478.7	8525.9	8694.1	*8548.5*	8484.9
32.5°	9680.6	9818.0	9563.7	9489.9	9450.9	9514.5	9475.5	9610.9	*9510.4*	9411.9
35°	10956.3	11091.7	10849.7	10706.1	10550.2	10416.9	10277.4	10312.3	*10218.0*	10068.2
37.5°	12162.3	12410.4	12154.1	12000.3	11713.1	11452.6	11063.0	10900.9	*10812.7*	10675.3
40°	13390.8	13532.3	13337.5	13206.2	12894.5	12486.3	11862.8	11520.3	*11401.4*	11268.1
42.5°	14295.3	14430.7	14326.1	14235.8	13991.8	13518.0	12711.9	12283.3	*12111.0*	11961.3
45°	15013.1	15113.6	15048.0	15080.8	14976.2	14516.8	13591.8	13101.6	*12923.2*	12740.7
47.5°	15302.3	15409.0	15513.6	15708.4	15886.9	15548.4	14537.3	13987.6	*13799.0*	13612.3
50°	15269.5	15378.2	15681.8	16096.1	16649.8	16537.0	15534.1	14931.1	*14756.8*	14543.5
52.5°	15007.0	15130.0	15519.7	16208.9	17090.8	17277.4	16549.3	15905.3	*15741.2*	15486.9
55°	14317.9	14391.7	14976.2	15952.5	17195.4	17794.3	17544.0	16943.1	*16779.0*	16424.2
57.5°	13040.1	13146.7	13997.9	15261.3	16932.8	18145.0	18417.8	18034.2	*17876.3*	17365.6
60°	11372.7	11542.9	12517.1	14100.5	16264.2	18142.9	19211.5	19106.9	*18975.6*	18292.6
62.5°	9485.8	9682.7	10619.9	12459.7	15095.2	17628.1	19707.8	20005.2	*19937.5*	19147.9
65°	7285.1	7420.4	8353.6	10336.9	13276.0	16522.7	19765.2	20618.5	*20630.8*	19798.1
67.5°	*4850.6*	*5240.2*	*6050.4*	*7756.8*	*10839.4*	*14715.7*	*19260.7*	*20718.9*	*20837.9*	*20021.6*
70°	2366.8	2879.6	3673.3	5041.3	7756.8	11944.9	17941.9	19894.5	*20159.0*	19369.4
72.5°	982.4	1148.5	1581.3	2487.8	4452.7	8060.3	15292.1	17658.9	*18149.1*	17162.6
75°	662.5	717.8	904.5	1275.7	2028.4	3974.8	11028.1	13167.3	*13956.9*	12962.2
77.5°	510.7	545.6	658.4	892.2	1206.0	1503.4	5902.7	7935.2	*8343.4*	7724.0
80°	402.0	428.7	492.2	650.2	855.3	804.0	2012.0	3595.4	*3831.2*	3213.9
82.5°	348.7	358.9	352.8	441.0	568.1	469.7	660.4	1327.0	*1464.4*	1062.4
85°	252.3	281.0	293.3	272.8	301.5	237.9	270.7	469.7	*516.8*	461.5
87.5°	102.5	151.8	186.6	176.4	110.8	67.7	84.1	137.4	*157.9*	172.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4329.6	0°	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6
4331.7	2.5°	4333.7	4348.1	4358.3	4370.6	4378.8	4391.1	4415.7	4430.1	4432.2	4442.4
4364.5	5°	4372.7	4393.2	4415.7	4448.6	4485.5	4516.2	4563.4	4596.2	4608.5	4618.8
4444.5	7.5°	4456.8	4485.5	4526.5	4583.9	4637.3	4678.3	4735.7	4774.7	4813.6	4828.0
4571.6	10°	4581.9	4622.9	4682.4	4760.3	4817.7	4871.1	4930.5	4963.4	5002.3	5018.7
4723.4	12.5°	4737.8	4780.8	4858.8	4967.5	5020.8	5057.7	5078.2	5070.0	5078.2	5092.6
4905.9	15°	4916.2	4963.4	5051.6	5168.5	5205.4	5172.6	5127.4	5086.4	5080.3	5084.4
5127.4	17.5°	5127.4	5162.3	5264.9	5363.3	5336.6	5201.3	5102.8	5037.2	5004.4	4994.1
5410.5	20°	5422.8	5422.8	5506.9	5568.4	5390.0	5160.3	5006.4	4899.8	4832.1	4803.4
5796.1	22.5°	5781.7	5748.9	5802.2	5759.1	5379.7	5045.4	4832.1	4647.5	4545.0	4503.9
6335.5	25°	6237.0	6198.0	6183.7	5917.1	5305.9	4862.9	4516.2	4292.7	4202.4	4179.9
7112.8	27.5°	6924.1	6825.6	6639.0	6003.2	5170.5	4575.7	4147.1	3939.9	3888.6	3890.7
8111.6	30°	7838.8	7641.9	7184.6	6017.6	4949.0	4169.6	3769.7	3622.0	3597.4	3607.7
8950.5	32.5°	8685.9	8499.2	7742.4	5951.9	4608.5	3771.7	3431.3	3332.8	3295.9	3308.2
9590.4	35°	9350.4	9299.1	8259.3	5859.6	4190.1	3398.5	3127.7	3043.6	2971.9	2955.5
10193.3	37.5°	9978.0	9957.5	8646.9	5730.4	3775.8	3133.9	2883.7	2772.9	2668.3	2610.9
10859.9	40°	10667.1	10646.6	8901.2	5531.5	3408.7	2904.2	2664.2	2518.6	2389.4	2284.8
11614.7	42.5°	11442.4	11321.4	9022.2	5246.4	3097.0	2709.3	2485.8	2288.9	2118.7	2022.3
12467.9	45°	12289.4	12016.7	9020.2	4883.4	2834.4	2530.9	2295.0	2016.1	1858.2	1767.9
13343.6	47.5°	13187.8	12681.2	8909.4	4481.4	2580.1	2334.0	1999.7	1786.4	1681.8	1626.4
14295.3	50°	14114.8	13302.6	8720.7	4019.9	2319.7	2110.5	1815.1	1669.5	1589.5	1538.2
15238.7	52.5°	14986.5	13866.6	8493.1	3496.9	2055.1	1893.0	1733.1	1620.3	1536.2	1478.8
16153.5	55°	15796.6	14352.7	8171.1	2961.6	1839.7	1747.4	1694.1	1599.8	1503.4	1435.7
17082.6	57.5°	16516.5	14668.6	7615.3	2459.1	1685.9	1646.9	1653.1	1564.9	1454.1	1396.7
17997.3	60°	17115.4	14900.3	6792.8	1993.5	1560.8	1548.5	1589.5	1499.3	1370.1	1304.4
18770.5	62.5°	17474.3	14896.2	5783.7	1632.6	1454.1	1458.2	1505.4	1417.2	1286.0	1224.4
19174.6	65°	17443.5	14531.2	4676.2	1396.7	1351.6	1355.7	1417.2	1327.0	1216.2	1179.3
18971.5	67.5°	*16826.2*	*13641.0*	*3587.2*	*1242.9*	*1238.8*	*1257.2*	*1329.0*	*1265.5*	*1173.2*	*1169.1*
17761.4	70°	15154.7	11793.1	2584.2	1119.8	1121.9	1148.5	1242.9	1226.5	1150.6	1158.8
14933.1	72.5°	12152.0	8991.5	1735.1	990.6	992.7	1035.7	1160.9	1195.7	1128.0	1236.7
10595.3	75°	8093.1	5607.4	1115.7	853.2	855.3	910.6	1089.1	1136.2	1066.5	1232.6
5513.0	77.5°	3888.6	2520.6	808.1	717.8	717.8	769.1	941.4	1017.3	908.6	957.8
1772.0	80°	1343.4	947.6	635.8	578.4	566.1	600.9	793.7	881.9	783.5	721.9
578.4	82.5°	529.2	492.2	510.7	449.2	408.1	430.7	617.3	728.1	576.3	520.9
326.1	85°	303.5	320.0	361.0	297.4	235.9	264.6	453.3	523.0	434.8	383.5
106.7	87.5°	82.0	112.8	166.1	153.8	106.7	112.8	215.4	289.2	250.2	192.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
4329.6
4440.4
4616.7
4830.0
5026.9
5096.7
5098.7
5008.5
4797.2
4497.8
4184.0
3896.9
3642.5
3324.6
2967.8
2612.9
2295.0
2028.4
1763.8
1614.1
1519.8
1454.1
1409.0
1359.8
1275.7
1206.0
1177.3
1175.2
1156.7
1253.1
1242.9
877.8
676.8
518.9
391.7
198.9
0.0

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