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: P953143

Luminaire Tested: **GALN-SB6D-740-U-T3R**

Issue Date: 1/21/2025

Report Generated By 670246001

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

Test Information

Test Method:	LM-79-08
Report Number:	P953143
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB6D-740-U-T3R
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	67022 lumens
Efficiency:	N/A
Efficacy:	152.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B4 - U0 - G5
Input Watts (W):	440.1
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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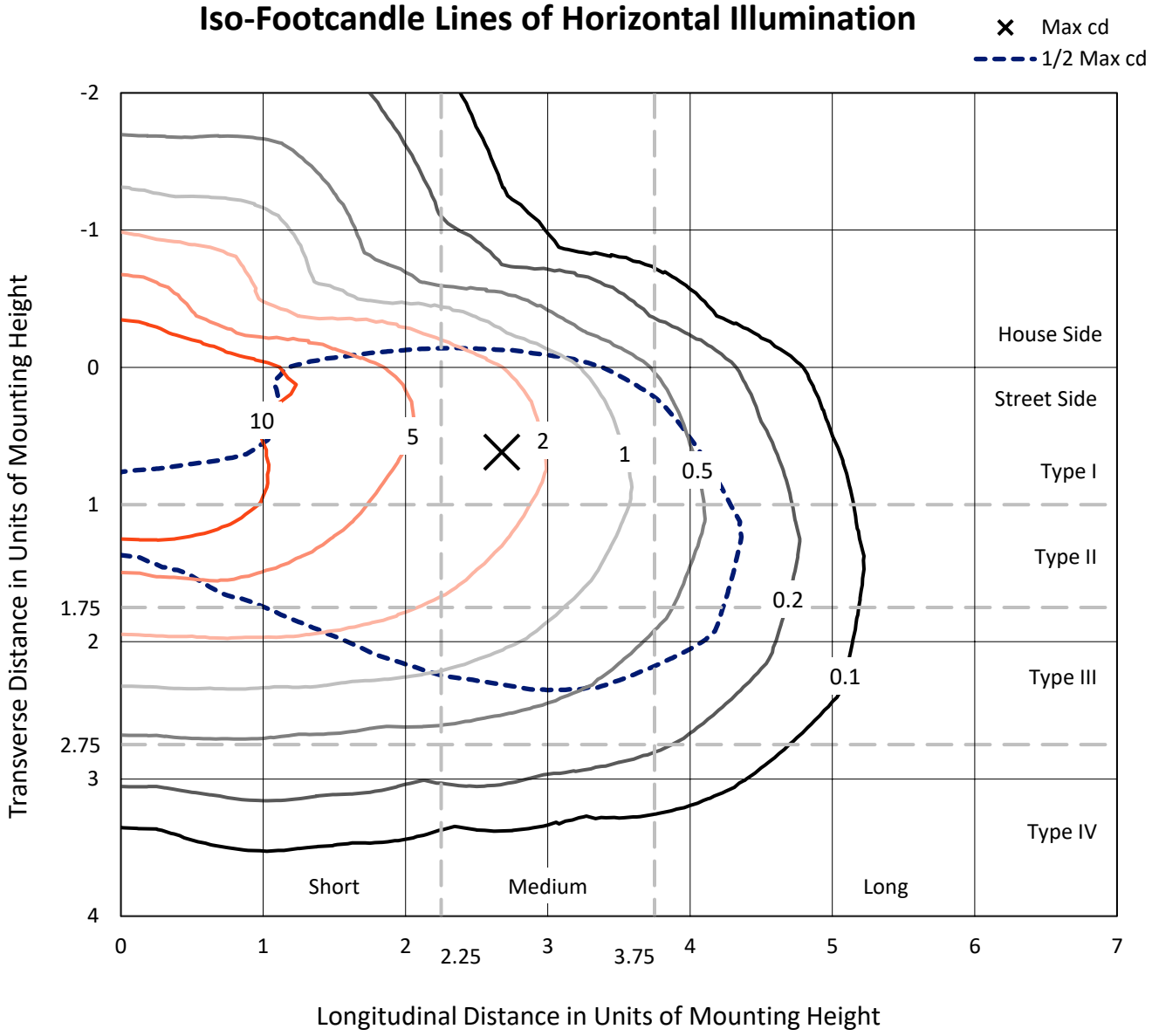
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
Type III - Medium - N/A

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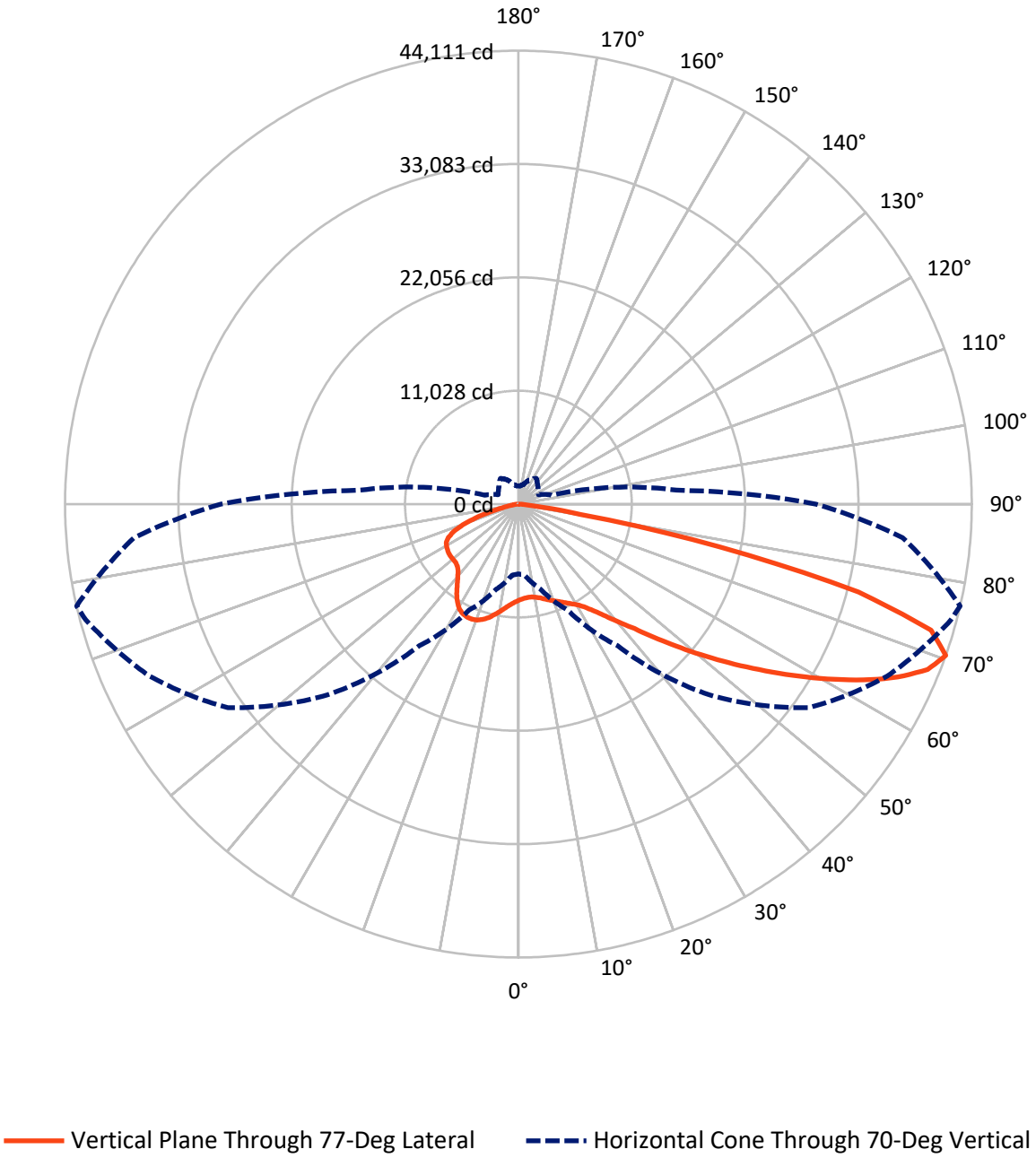
Luminous Intensity Polar Plot



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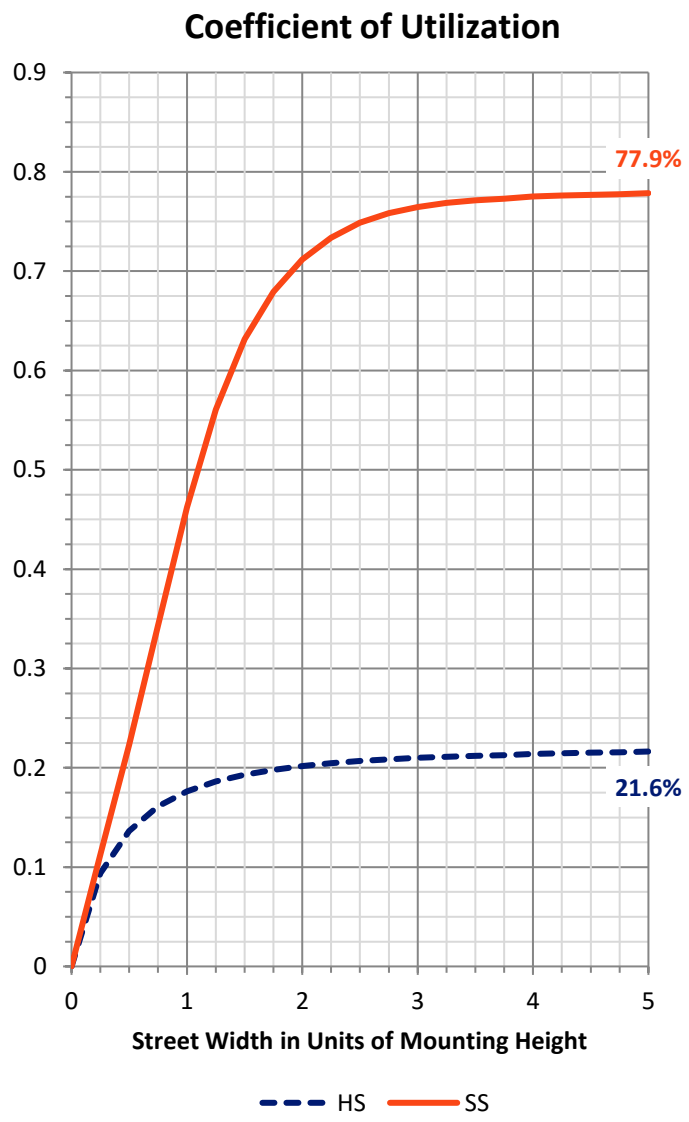
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14676.8	0.0	14676.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	52345.2	0.0	52345.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	67022.0	0.0	67022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.8	1.3
10°-20°	2573.7	3.8
20°-30°	4401.4	6.6
30°-40°	7077.9	10.6
40°-50°	11050.4	16.5
50°-60°	14760.7	22.0
60°-70°	15732.6	23.5
70°-80°	9684.9	14.5
80°-90°	848.7	1.3
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°	67022.0	100.0
0°-180°	67022.0	100.0



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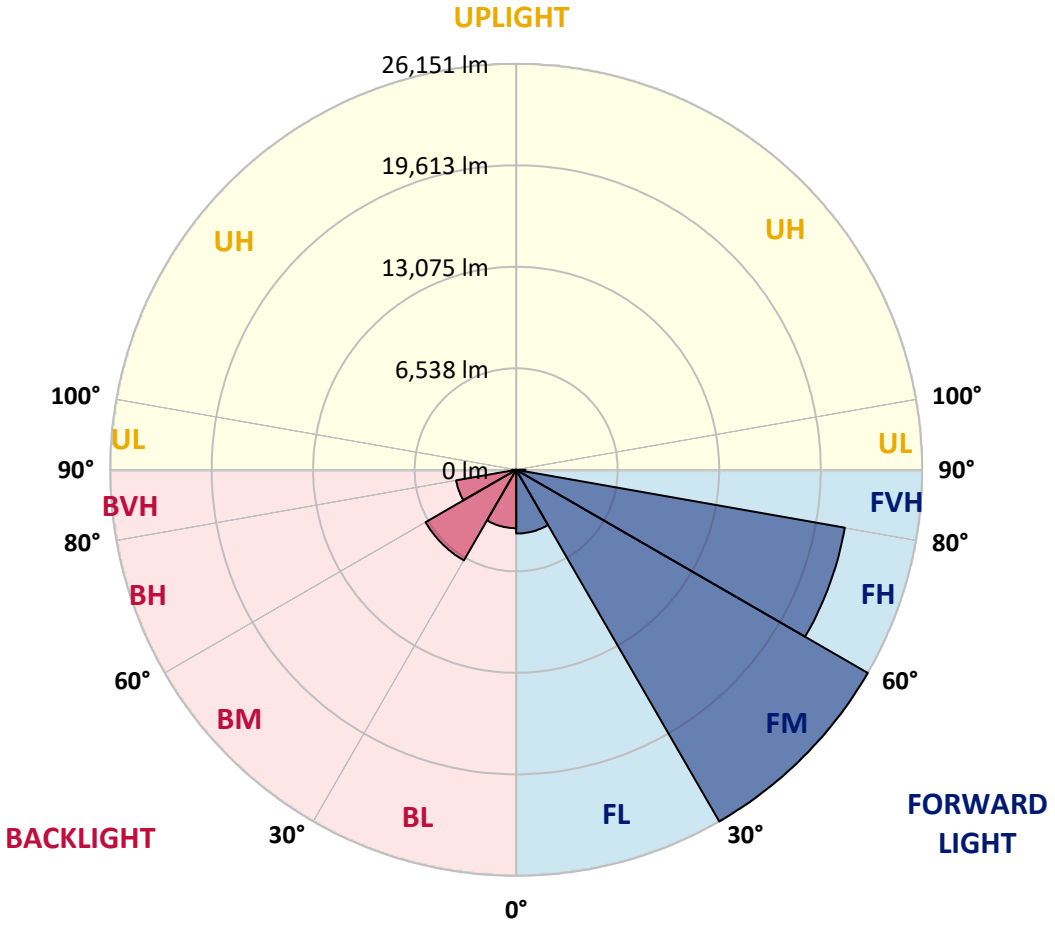
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4106.2	6.1			
FM	(30°-60°)	26150.5	39.0			
FH	(60°-80°)	21495.1	32.1			G5
FVH	(80°-90°)	593.4	0.9			G4/750
BL	(0°-30°)	3760.7	5.6	B4/5000		
BM	(30°-60°)	6738.4	10.1	B4/8500		
BH	(60°-80°)	3922.5	5.9	B4/5000		G4/5000
BVH	(80°-90°)	255.2	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	9350.2	9350.2	9350.2	9350.2	9350.2	9350.2	9350.2	9350.2	9350.2	*9350.2*
2.5°	8619.1	8615.6	8660.2	8674.0	8756.4	8814.7	8924.5	9041.3	9192.3	*9209.4*
5°	8121.3	8121.3	8172.8	8227.7	8334.2	8450.9	8619.1	8821.6	9082.4	*9123.6*
7.5°	7699.1	7726.6	7771.2	7877.6	8001.2	8169.4	8426.8	8715.2	9058.4	*9123.6*
10°	7359.3	7390.2	7445.1	7530.9	7716.3	7949.7	8286.1	8656.8	9116.8	*9219.7*
12.5°	7252.9	7283.8	7314.7	7379.9	7551.5	7826.1	8227.7	8684.3	9257.5	*9360.5*
15°	7500.1	7537.8	7513.8	7496.6	7585.9	7836.4	8255.2	8783.8	9432.6	*9580.2*
17.5°	8069.9	8083.6	8028.7	7867.3	7853.6	7987.5	8385.6	8921.1	9652.2	*9813.6*
20°	8989.8	8965.7	8852.5	8533.2	8351.3	8323.9	8608.8	9127.1	9878.8	*10050.4*
22.5°	10239.2	10211.7	9985.2	9480.6	9075.6	8807.8	8931.4	9394.8	10132.8	*10325.0*
25°	11797.6	11759.8	11426.9	10740.4	10112.2	9449.7	9370.8	9748.4	10445.2	*10623.6*
27.5°	13616.8	13585.9	13225.5	12319.3	11413.1	10328.4	9916.5	10163.7	10771.2	*10973.8*
30°	15573.3	15662.6	15024.1	14049.3	12902.8	11474.9	10651.1	10675.1	11193.4	*11375.4*
32.5°	17873.1	18027.6	17258.7	16023.0	14457.8	12720.9	11577.9	11389.1	11807.9	*11958.9*
35°	20152.3	20327.4	19688.9	18322.8	16520.7	14190.0	12545.9	12209.5	12624.8	*12789.6*
37.5°	22122.6	22356.0	22026.5	20838.8	18727.8	15961.2	13809.0	13174.0	13630.5	*13836.5*
40°	23677.5	24034.5	24010.5	23269.0	21329.7	18110.0	15412.0	14365.1	14880.0	*15103.1*
42.5°	24940.7	25249.6	25517.3	25479.6	24044.8	20550.5	17296.5	15913.2	16304.5	*16561.9*
45°	25812.5	26142.1	26718.7	27340.0	26656.9	23162.6	19455.5	17749.6	18106.5	*18494.4*
47.5°	26591.7	26965.9	27714.2	28699.3	28874.3	25785.1	21820.5	19888.0	20214.1	*20615.7*
50°	26660.4	26983.0	28143.2	29540.3	30449.9	28304.5	24360.6	22287.3	22592.8	*23021.9*
52.5°	25002.5	25510.5	27535.7	29516.2	31174.1	30412.1	26883.5	24782.8	25126.0	*25640.9*
55°	19407.5	20152.3	25754.2	28596.3	30916.7	31774.8	29282.8	27436.1	27875.5	*28414.4*
57.5°	16716.4	17042.5	20444.1	26921.2	29742.8	32128.4	31308.0	30116.9	30824.0	*31414.4*
60°	15024.1	15295.3	17306.8	24316.0	28198.1	31568.9	32873.2	32615.8	33837.8	*34541.4*
62.5°	13211.8	13469.2	15298.7	20303.3	26221.0	30638.7	33861.8	34922.4	36927.0	*37695.9*
65°	11413.1	11632.8	13386.8	17059.6	23708.4	29708.4	34373.2	36916.7	39786.3	*40582.7*
67.5°	9408.5	9590.5	11248.4	14392.6	20653.5	28435.0	34627.2	38485.4	42274.9	*42958.0*
70°	*6789.5*	*6930.3*	*8643.1*	*11382.2*	*16819.3*	*26245.0*	*34524.3*	*39597.5*	*43565.5*	*44111.3*
72.5°	3209.4	3336.4	5347.9	7390.2	11879.9	21981.8	32440.7	38715.4	42254.3	*41983.1*
75°	1712.8	1822.7	3072.1	4053.8	6274.6	15068.8	26547.1	33350.3	35481.9	*34163.9*
77.5°	1160.2	1246.0	1901.6	2433.7	2866.2	7153.4	17063.0	23090.6	22215.3	*20039.0*
80°	919.9	1009.2	1558.4	1647.6	1386.7	2584.7	7050.4	10688.9	7678.5	*6140.8*
82.5°	707.1	806.6	1311.2	1194.5	755.2	1060.6	2052.6	3381.0	1966.8	*1496.6*
85°	432.5	538.9	1029.8	762.0	425.6	484.0	696.8	940.5	600.7	*501.1*
87.5°	219.7	308.9	521.7	278.0	192.2	113.3	185.4	185.4	157.9	*137.3*
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°
9350.2	0°	9350.2	9350.2	9350.2	9350.2	9350.2	9350.2	9350.2	9350.2	9350.2	9350.2
9302.1	2.5°	9384.5	9453.2	9569.9	9679.7	9765.5	9847.9	9930.3	9974.9	9988.6	10043.5
9353.6	5°	9494.3	9621.3	9847.9	10060.7	10194.6	10277.0	10335.3	10369.6	10376.5	10393.7
9494.3	7.5°	9696.9	9899.4	10215.2	10428.0	10527.5	10520.7	10496.6	10410.8	10376.5	10345.6
9700.3	10°	9981.8	10249.5	10637.4	10785.0	10723.2	10558.4	10345.6	10095.0	9978.3	9865.1
9981.8	12.5°	10335.3	10675.1	11056.1	11049.3	10743.8	10321.6	9827.3	9442.9	9199.1	9024.1
10328.4	15°	10764.4	11155.7	11447.4	11214.0	10544.7	9786.1	9061.8	8560.7	8341.0	8148.8
10678.6	17.5°	11207.2	11625.9	11759.8	11162.6	10043.5	8993.2	8172.8	7778.1	7561.8	7458.9
11056.1	20°	11639.7	12055.0	11945.2	10867.4	9281.5	8093.9	7362.8	7146.5	7101.9	7125.9
11423.4	22.5°	12096.2	12466.9	11982.9	10297.6	8310.1	7174.0	6772.4	6779.2	6878.8	6950.8
11807.9	25°	12563.0	12813.6	11883.4	9473.8	7266.6	6497.8	6398.2	6508.1	6703.7	6844.4
12240.4	27.5°	13012.7	13122.5	11667.1	8454.3	6370.8	6013.8	6030.9	6257.5	6552.7	6748.3
12765.5	30°	13520.7	13397.1	11251.8	7307.8	5749.5	5598.4	5742.6	6006.9	6302.1	6477.2
13428.0	32.5°	14093.9	13634.0	10592.8	6247.2	5310.1	5265.5	5502.3	5674.0	5804.4	5855.9
14306.7	35°	14807.9	13966.9	9748.4	5502.3	4915.4	5021.8	5248.3	5162.5	5111.0	5083.6
15487.5	37.5°	15734.7	14416.6	8759.8	5018.3	4596.1	4846.7	4939.4	4671.7	4469.1	4369.6
16918.9	40°	16850.2	15075.6	7809.0	4644.2	4393.6	4695.7	4534.4	4211.7	3954.3	3813.5
18528.7	42.5°	18089.4	15765.6	7009.2	4362.7	4280.4	4572.1	4235.7	3851.3	3436.0	3391.3
20447.5	45°	19390.3	16476.1	6463.4	4146.5	4225.4	4465.7	4064.1	3442.8	3147.6	3329.5
22373.2	47.5°	20691.2	17128.3	6133.9	3985.2	4198.0	4345.6	3913.1	3216.3	3006.9	3271.2
24436.1	50°	22139.7	17711.8	5986.3	3868.4	4167.1	4297.5	3686.5	3157.9	2859.3	3034.3
26571.1	52.5°	23578.0	18164.9	5876.5	3751.7	4122.5	4259.8	3576.7	3089.3	2680.8	2691.1
28719.9	55°	25012.8	18460.1	5756.3	3597.3	4022.9	4177.4	3566.4	3013.8	2546.9	2498.9
30992.2	57.5°	26543.7	18628.3	5608.7	3425.7	3851.3	3968.0	3556.1	2955.4	2505.7	2426.8
33316.0	60°	28102.0	18875.4	5416.5	3216.3	3621.3	3717.4	3532.1	2934.8	2481.7	2347.8
35506.0	62.5°	29499.1	18961.2	5186.5	3017.2	3326.1	3470.3	3480.6	2917.6	2416.5	2186.5
37325.2	65°	30415.5	18590.5	4784.9	2790.6	3006.9	3216.3	3381.0	2859.3	2299.8	2069.8
38224.5	67.5°	30377.8	17533.3	4156.8	2498.9	2698.0	2934.8	3236.9	2759.7	2159.1	1925.6
37544.9	70°	*28963.6*	*15446.3*	*3360.4*	*2159.1*	*2358.1*	*2632.7*	*3051.5*	*2612.1*	*1990.9*	*1767.7*
33384.7	72.5°	24841.1	12089.3	2440.5	1760.9	1963.4	2320.4	2811.2	2433.7	1819.2	1627.0
24672.9	75°	17746.1	7651.1	1654.5	1352.4	1527.5	1966.8	2512.6	2224.3	1661.3	1633.9
12357.1	77.5°	9065.3	3655.6	1095.0	988.6	1064.1	1551.5	2111.0	1987.4	1685.4	1349.0
3514.9	80°	2948.5	1349.0	689.9	672.8	707.1	1033.2	1633.9	1630.4	1276.9	916.5
851.3	82.5°	940.5	580.1	449.7	432.5	415.3	648.7	1139.6	1290.6	861.6	580.1
305.5	85°	374.1	346.7	264.3	243.7	175.1	305.5	597.3	858.1	641.9	418.8
78.9	87.5°	137.3	137.3	72.1	51.5	37.8	103.0	161.3	257.4	367.3	216.2
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°
9350.2
10074.4
10421.1
10352.5
9830.7
8982.9
8128.2
7489.8
7115.6
6968.0
6882.2
6796.4
6518.4
5883.3
5111.0
4393.6
3823.8
3436.0
3425.7
3394.8
3164.8
2763.2
2533.2
2437.1
2358.1
2186.5
2069.8
1935.9
1788.3
1616.7
1541.2
1201.4
810.1
576.7
429.1
212.8
0.0

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