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: P955538

Luminaire Tested: **GALN-SB8B-950-U-T4W-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P955538
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB8B-950-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24399 lumens
Efficiency:	N/A
Efficacy:	83.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G4
Input Watts (W):	292.8
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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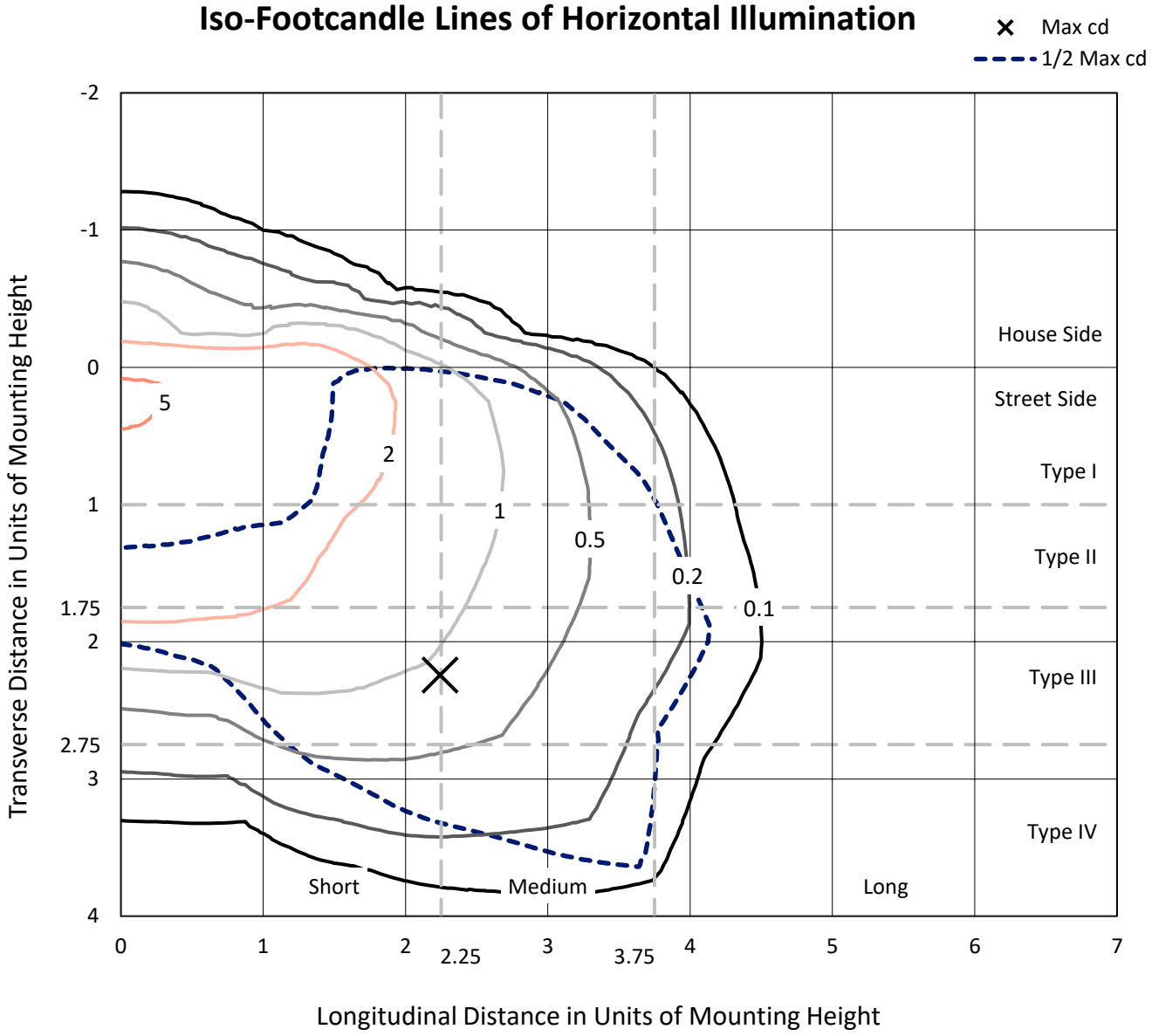
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Short - N/A

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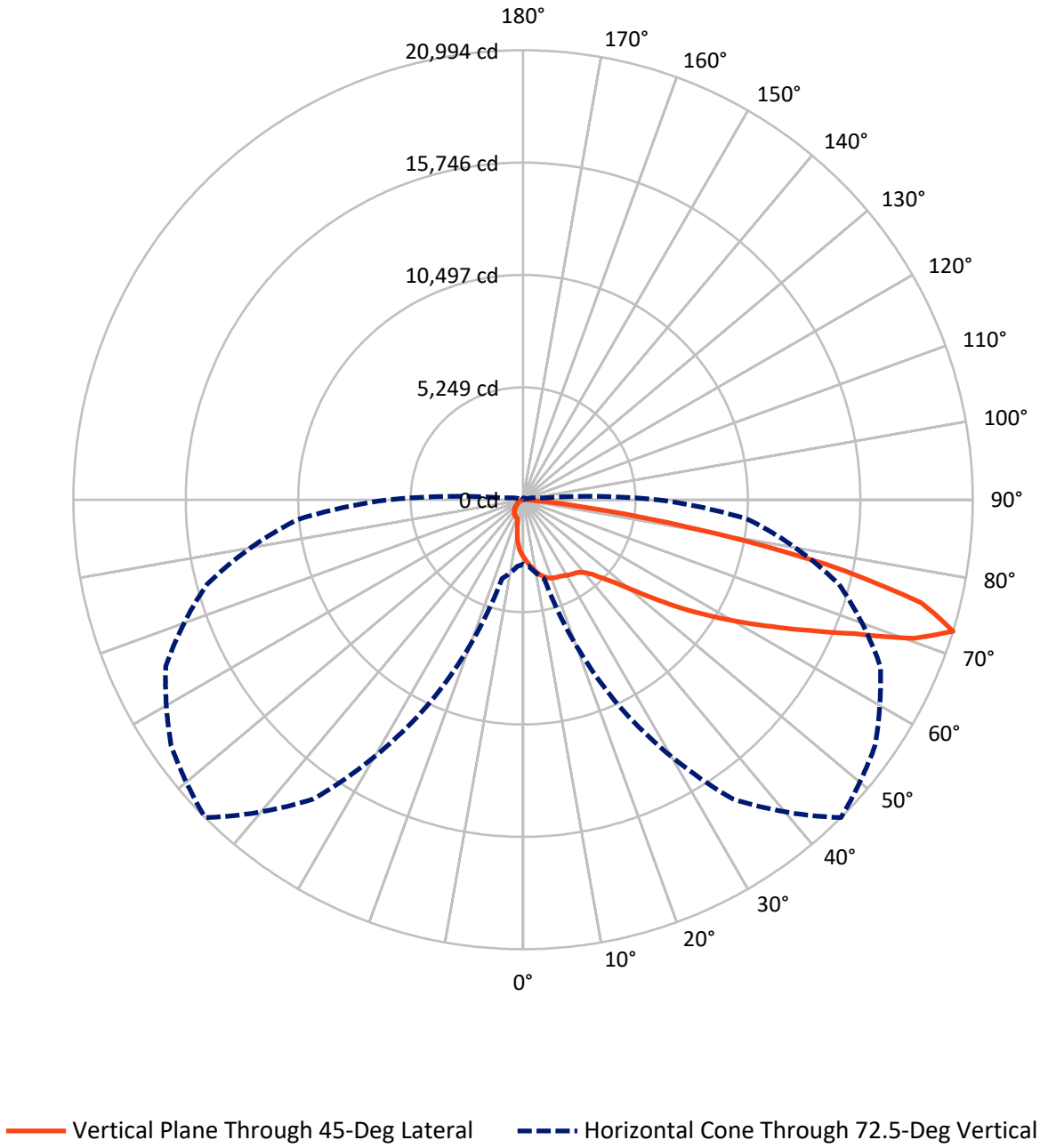
Luminous Intensity Polar Plot



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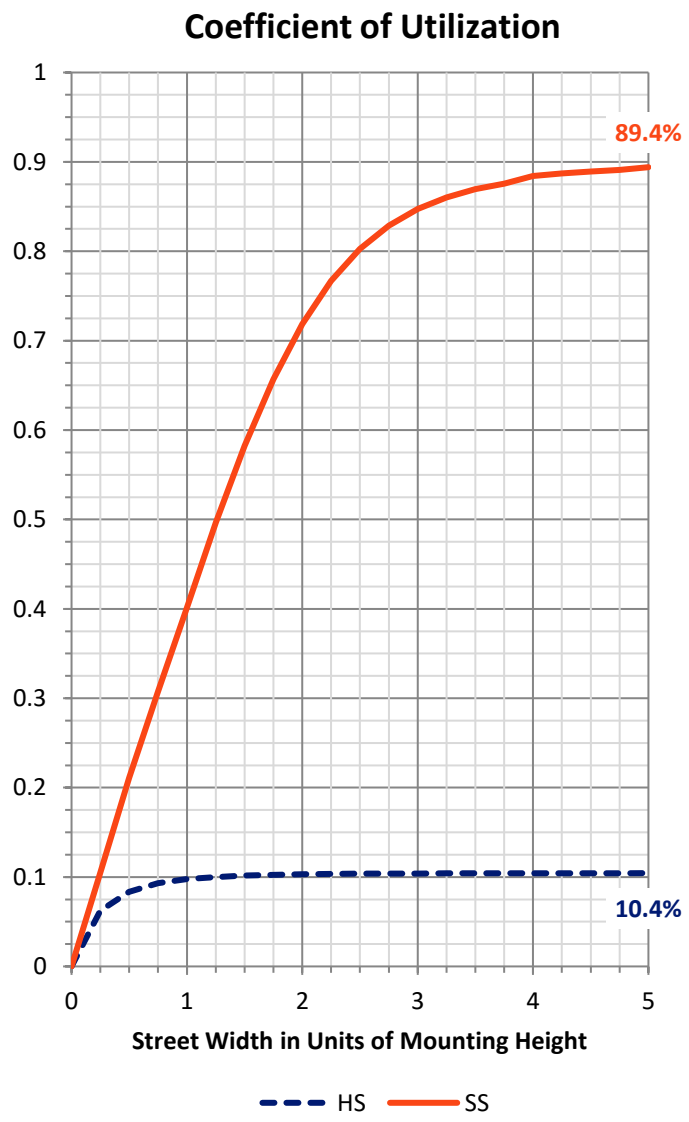
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2563.7	0.0	2563.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21835.3	0.0	21835.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	24399.0	0.0	24399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	1.0
10°-20°	736.0	3.0
20°-30°	1208.7	5.0
30°-40°	1714.2	7.0
40°-50°	2833.4	11.6
50°-60°	5089.9	20.9
60°-70°	7067.6	29.0
70°-80°	5126.6	21.0
80°-90°	370.6	1.5
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°	24399.0	100.0
0°-180°	24399.0	100.0



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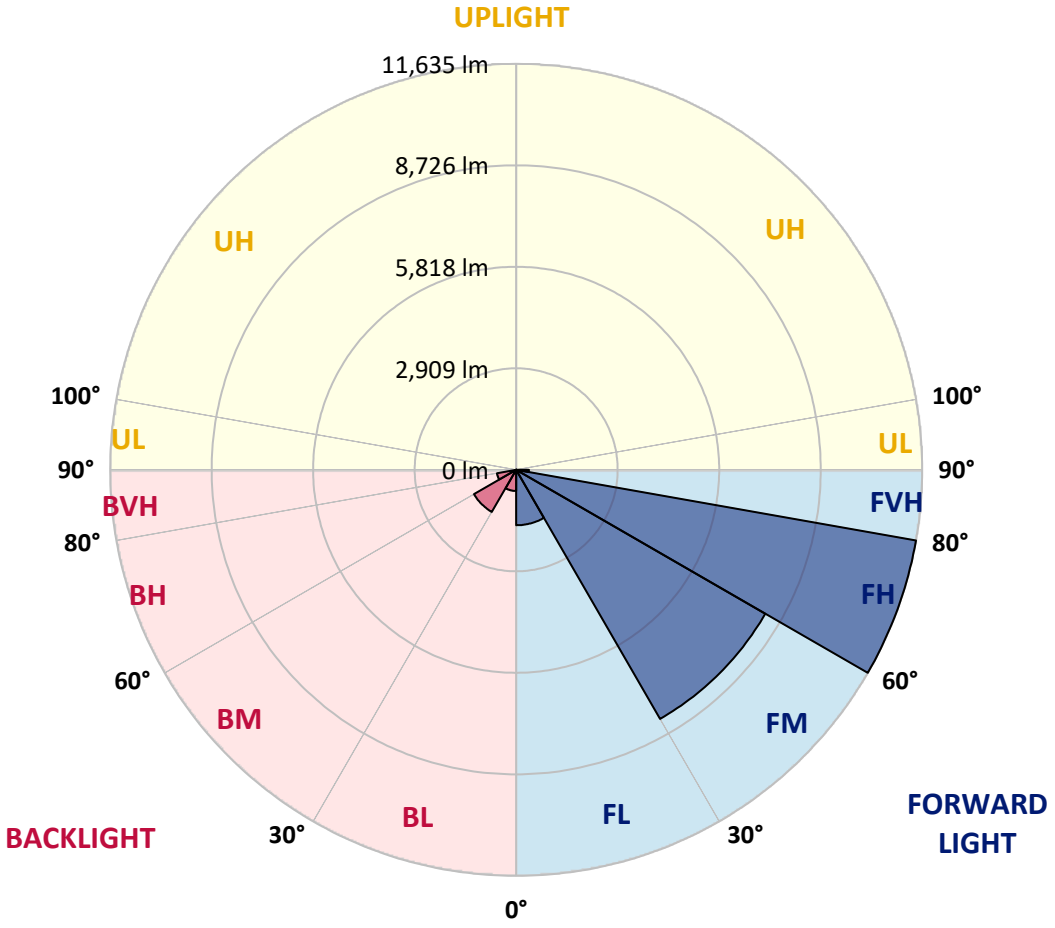
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1589.4	6.5			
FM	(30°-60°)	8243.3	33.8			
FH	(60°-80°)	11635.2	47.7			G4/12000
FVH	(80°-90°)	367.5	1.5			G3/500
BL	(0°-30°)	607.2	2.5	B2/1000		
BM	(30°-60°)	1394.3	5.7	B2/2500		
BH	(60°-80°)	559.1	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2673.0	2673.0	2673.0	2673.0	2673.0	*2673.0*	2673.0	2673.0	2673.0	2673.0
2.5°	2919.4	2924.4	2921.1	2901.1	2867.8	*2849.5*	2839.5	2806.2	2784.5	2746.2
5°	3187.6	3207.6	3195.9	3155.9	3092.6	*3047.7*	3034.4	2966.1	2904.5	2832.8
7.5°	3472.4	3482.3	3460.7	3409.1	3324.1	*3247.5*	3235.9	3140.9	3042.7	2932.8
10°	3718.8	3730.5	3697.2	3622.2	3525.6	*3430.7*	3414.1	3309.1	3192.6	3057.7
12.5°	3925.3	3937.0	3893.7	3803.8	3697.2	*3598.9*	3582.3	3472.4	3344.1	3194.2
15°	4081.9	4103.5	4045.2	3948.7	3833.7	*3735.5*	3727.2	3618.9	3494.0	3327.5
17.5°	4173.5	4195.1	4140.2	4023.6	3925.3	*3842.1*	3832.1	3742.1	3625.6	3465.7
20°	4188.5	4208.5	4150.2	4048.6	3967.0	*3900.4*	3895.4	3830.4	3745.5	3592.3
22.5°	4143.5	4168.5	4115.2	4033.6	3977.0	*3942.0*	3935.3	3898.7	3850.4	3720.5
25°	4096.9	4116.9	4076.9	4005.3	3975.3	*3972.0*	3977.0	3970.3	3960.3	3850.4
27.5°	4093.5	4115.2	4070.2	4001.9	3985.3	*4020.3*	4025.3	4056.9	4065.2	3968.6
30°	4121.9	4136.8	4093.5	4021.9	4013.6	*4093.5*	4095.2	4151.8	4165.2	4068.6
32.5°	4183.5	4200.1	4156.8	4051.9	4040.3	*4151.8*	4156.8	4231.8	4253.4	4175.2
35°	4328.4	4348.4	4298.4	4135.2	4093.5	*4206.8*	4221.8	4310.0	4353.3	4288.4
37.5°	4689.8	4631.5	4563.2	4303.4	4215.1	*4293.4*	4318.4	4421.6	4498.2	4423.3
40°	5587.4	5404.2	5191.0	4589.8	4428.3	*4478.3*	4498.2	4601.5	4706.4	4633.1
42.5°	6934.7	6718.2	6375.1	5249.3	4749.7	*4774.7*	4789.7	4879.6	5027.8	4969.5
45°	8135.5	8057.2	7707.5	6375.1	5350.9	*5227.7*	5246.0	5292.6	5510.8	5489.1
47.5°	9058.1	9013.1	8743.3	7667.5	6366.8	*5782.3*	5833.9	5855.5	6170.3	6246.9
50°	9767.6	9750.9	9509.4	8816.6	7694.1	*6600.0*	6618.3	6571.7	7043.0	7232.8
52.5°	10437.0	10493.7	10315.5	9884.1	9111.4	*7670.8*	7667.5	7447.7	8083.8	8370.3
55°	11041.6	11061.6	11079.9	10973.3	10537.0	*8889.9*	8858.2	8498.5	9291.3	9587.7
57.5°	11609.5	11617.8	11781.0	11999.2	12020.8	*10198.9*	10140.6	9709.3	10610.2	10821.8
60°	11990.9	12029.2	12373.9	12980.1	13244.9	*11549.5*	11517.9	11078.2	11952.6	12050.8
62.5°	11441.3	11674.4	12543.8	13746.2	14400.7	*13046.7*	13031.7	12618.7	13364.8	13284.9
65°	9261.3	9656.0	11184.8	14264.1	15534.8	*14718.8*	14740.4	14300.8	14815.4	14555.6
67.5°	6478.4	6894.7	8703.4	14305.8	16802.2	*16682.3*	16807.2	16117.7	16355.9	15773.0
70°	4479.9	4694.8	5872.2	13409.8	17789.8	*19386.9*	19383.6	18349.3	17888.0	16327.6
72.5°	*3012.7*	*3124.3*	*3813.8*	*10638.6*	*17063.7*	*20994.0*	*20897.4*	*20054.7*	*18404.3*	*15270.0*
75°	1270.7	1352.3	1765.3	5978.8	13499.7	*19207.0*	18945.6	17723.2	16352.5	12024.2
77.5°	403.0	438.0	696.1	2140.0	7436.0	*14437.3*	14160.9	11068.2	10960.0	6032.1
80°	191.5	223.2	391.4	859.3	2926.1	*7852.3*	7814.0	5021.2	4714.7	1628.8
82.5°	83.3	98.3	216.5	459.6	1309.0	*2801.2*	2857.8	1708.7	1413.9	617.9
85°	26.6	35.0	99.9	211.5	552.9	*696.1*	687.8	406.4	569.6	336.4
87.5°	0.0	0.0	33.3	48.3	56.6	*40.0*	45.0	35.0	158.2	93.3
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°
2673.0	0°	2673.0	2673.0	2673.0	2673.0	2673.0	2673.0	2673.0	2673.0	2673.0	2673.0
2706.3	2.5°	2686.3	2659.6	2613.0	2569.7	2531.4	2493.1	2469.8	2436.5	2433.1	2433.1
2749.6	5°	2704.6	2661.3	2578.0	2489.8	2388.2	2291.6	2195.0	2101.7	2071.8	2050.1
2819.5	7.5°	2757.9	2689.6	2558.0	2389.8	2196.7	1985.2	1836.9	1677.1	1615.4	1582.1
2912.8	10°	2834.5	2741.2	2541.4	2246.6	1933.5	1645.4	1433.9	1260.7	1194.1	1165.8
3014.4	12.5°	2919.4	2804.5	2511.4	2068.4	1645.4	1300.7	1094.2	1014.2	1004.2	1004.2
3135.9	15°	3021.0	2881.1	2459.8	1858.6	1344.0	1029.2	955.9	959.3	969.3	975.9
3254.2	17.5°	3126.0	2962.7	2378.2	1623.8	1077.5	926.0	927.6	932.6	940.9	947.6
3382.4	20°	3239.2	3044.3	2269.9	1374.0	924.3	896.0	901.0	906.0	912.6	916.0
3502.3	22.5°	3360.8	3121.0	2141.7	1129.1	872.7	871.0	872.7	877.7	886.0	886.0
3642.2	25°	3490.7	3205.9	1995.1	950.9	846.0	846.0	849.4	852.7	859.3	859.3
3777.1	27.5°	3623.9	3284.2	1840.3	857.7	822.7	821.0	821.0	826.0	829.4	831.0
3910.4	30°	3770.5	3375.8	1685.4	837.7	804.4	796.1	791.1	794.4	797.7	799.4
4050.2	32.5°	3920.3	3464.0	1547.2	846.0	786.1	771.1	754.4	751.1	751.1	757.8
4195.1	35°	4086.9	3560.6	1440.6	874.3	776.1	734.4	707.8	692.8	694.5	704.5
4368.3	37.5°	4286.7	3677.2	1362.3	899.3	769.4	692.8	649.5	631.2	619.5	631.2
4606.5	40°	4548.2	3848.7	1305.7	919.3	761.1	644.5	586.2	556.2	534.6	541.3
4976.2	42.5°	4932.9	4118.5	1284.0	921.0	742.8	587.9	521.3	481.3	449.7	451.3
5532.4	45°	5472.5	4544.9	1395.6	899.3	702.8	526.3	453.0	399.7	379.7	374.7
6363.5	47.5°	6211.9	5166.1	1653.7	854.3	644.5	466.3	386.4	341.4	326.4	318.1
7454.3	50°	7202.8	5963.8	1940.2	804.4	586.2	409.7	331.4	303.1	293.1	284.8
8748.3	52.5°	8352.0	6773.2	2175.0	754.4	527.9	359.7	296.4	279.8	271.5	264.8
9997.4	55°	9406.2	7331.1	2161.7	701.1	471.3	319.8	271.5	261.5	251.5	244.8
11073.2	57.5°	10062.3	7409.4	1782.0	642.8	406.4	288.1	248.1	241.5	229.8	221.5
12004.2	60°	10363.8	6963.0	1249.0	566.2	341.4	258.1	223.2	219.8	204.8	193.2
12885.2	62.5°	10418.7	6133.7	832.7	471.3	284.8	229.8	198.2	193.2	173.2	153.2
13601.3	65°	10195.6	4947.9	576.2	368.1	243.1	199.8	169.9	159.9	138.2	118.2
13771.2	67.5°	9489.4	3474.0	401.4	264.8	206.5	158.2	134.9	131.6	114.9	98.3
12905.2	70°	8195.4	1980.2	268.1	198.2	163.2	108.3	106.6	109.9	93.3	79.9
10543.6	72.5°	*6283.5*	*906.0*	*166.5*	*144.9*	*111.6*	*73.3*	*84.9*	*86.6*	*71.6*	*60.0*
6578.3	75°	3698.8	388.0	104.9	93.3	56.6	48.3	61.6	63.3	48.3	38.3
2404.8	77.5°	1259.0	146.6	66.6	55.0	28.3	26.6	40.0	40.0	26.6	15.0
483.0	80°	286.4	55.0	33.3	21.7	13.3	11.7	13.3	11.7	6.7	1.7
148.2	82.5°	81.6	21.7	13.3	8.3	5.0	5.0	1.7	0.0	0.0	0.0
51.6	85°	23.3	10.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
18.3	87.5°	10.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
2673.0
2441.5
2060.1
1587.1
1165.8
1004.2
975.9
947.6
917.6
889.3
861.0
832.7
802.7
762.8
709.5
627.9
537.9
444.7
368.1
313.1
283.1
263.1
241.5
219.8
189.9
143.2
111.6
93.3
73.3
53.3
33.3
11.7
0.0
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