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: P955494

Luminaire Tested: **GALN-SB8B-935-U-T3R-HSS**

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:	P955494
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB8B-935-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26371 lumens
Efficiency:	N/A
Efficacy:	90.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type III - Medium
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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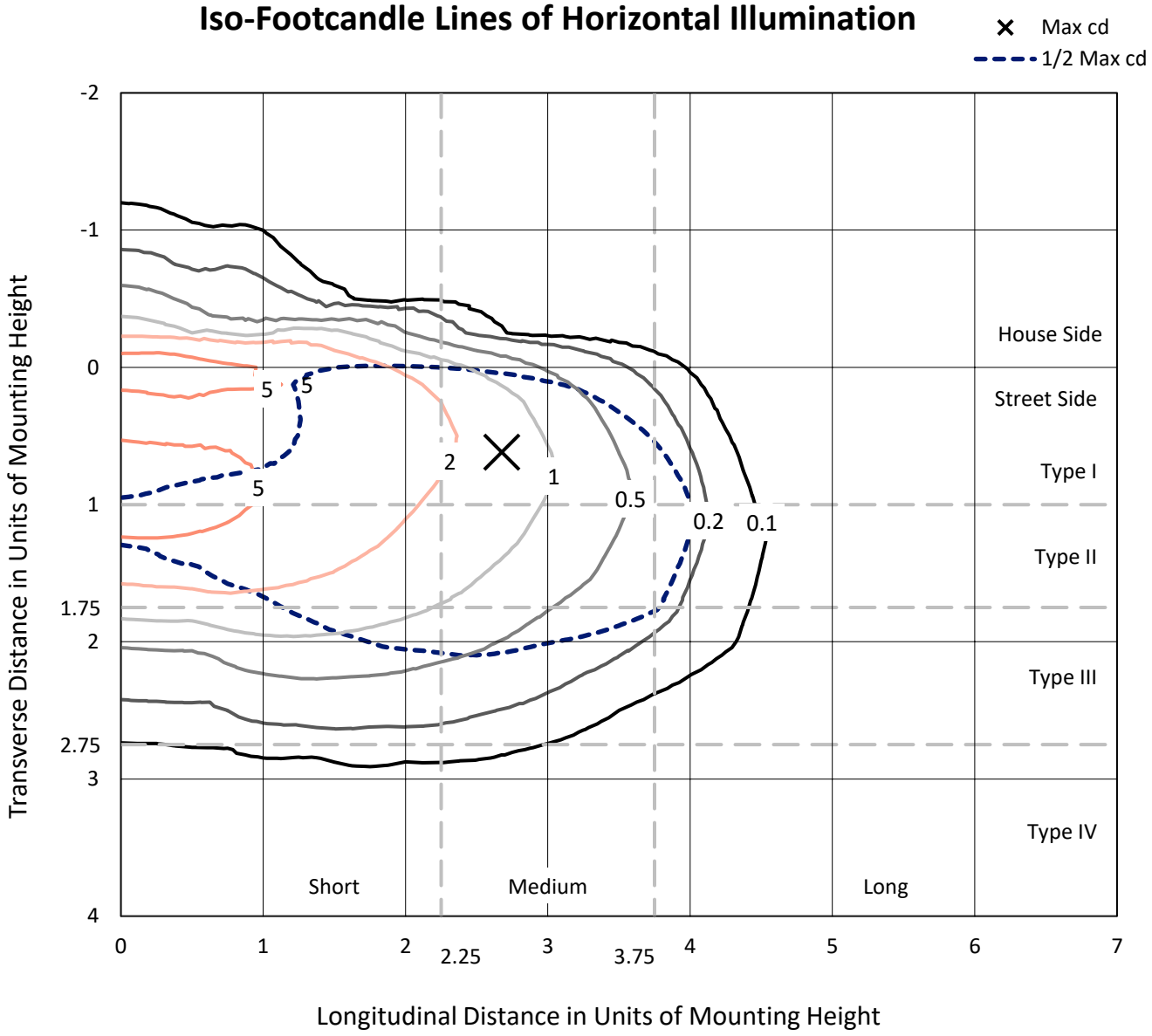
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Medium - N/A

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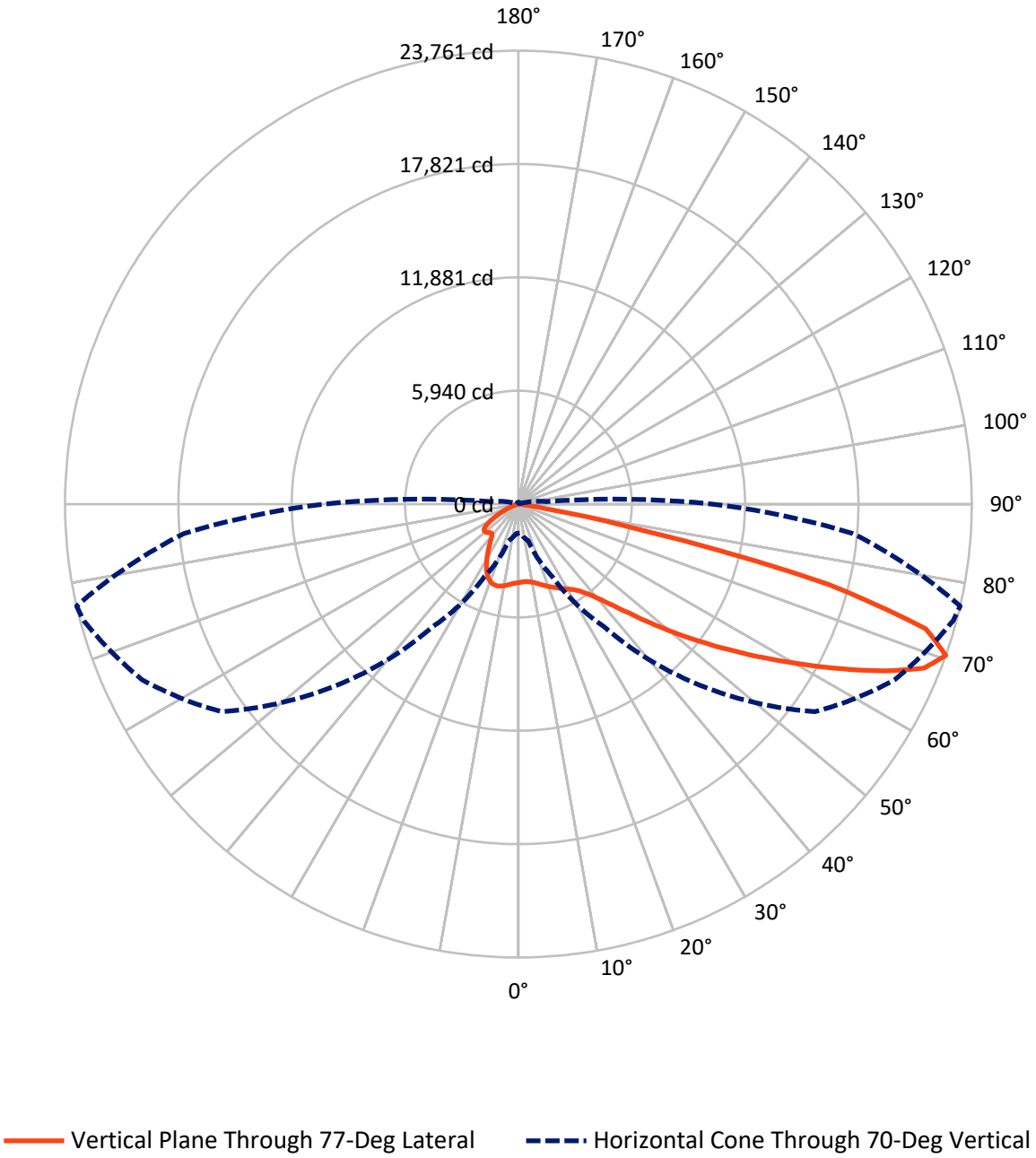
Luminous Intensity Polar Plot



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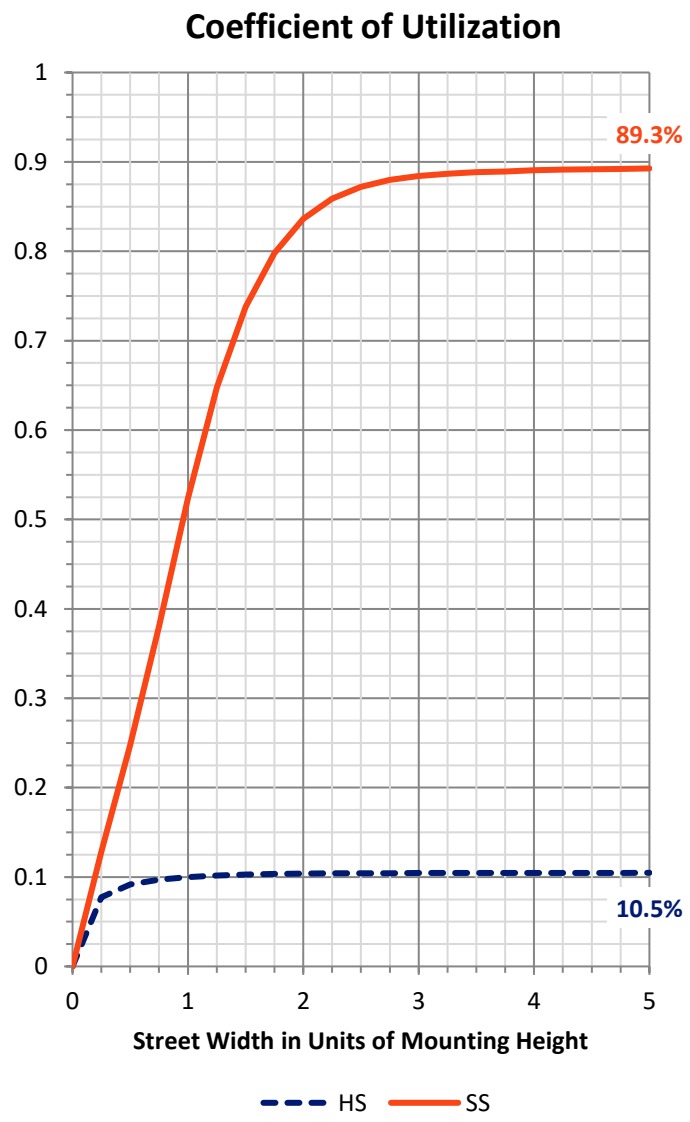
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2779.9	0.0	2779.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	23591.1	0.0	23591.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	26371.0	0.0	26371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.5	1.3
10°-20°	841.6	3.2
20°-30°	1301.7	4.9
30°-40°	2361.9	9.0
40°-50°	4458.5	16.9
50°-60°	6442.1	24.4
60°-70°	6857.4	26.0
70°-80°	3634.0	13.8
80°-90°	119.3	0.5
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°	26371.0	100.0
0°-180°	26371.0	100.0



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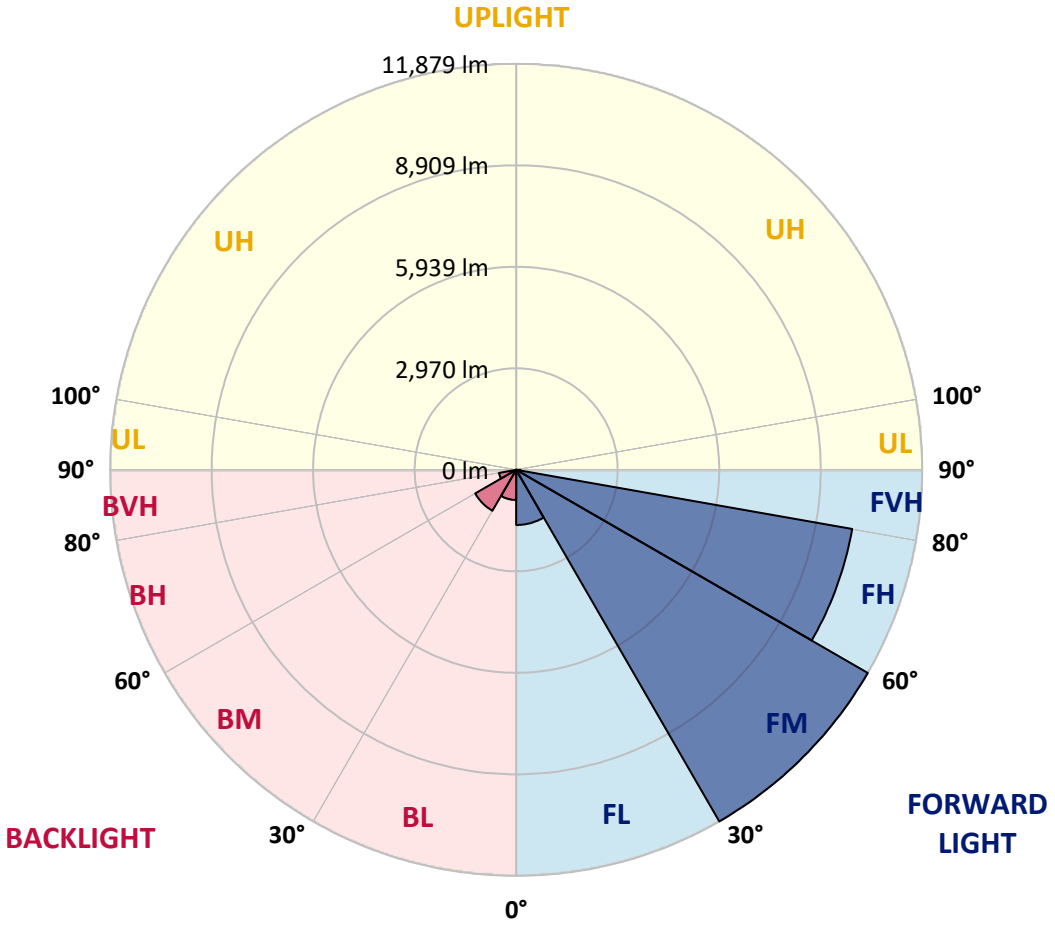
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1614.5	6.1			
FM	(30°-60°)	11878.7	45.0			
FH	(60°-80°)	9981.8	37.9			G4/12000
FVH	(80°-90°)	116.1	0.4			G2/225
BL	(0°-30°)	883.2	3.3	B2/1000		
BM	(30°-60°)	1383.8	5.2	B2/2500		
BH	(60°-80°)	509.6	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.2	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4113.4	4113.4	4113.4	4113.4	4113.4	4113.4	4113.4	4113.4	4113.4	*4113.4*
2.5°	3861.9	3896.9	3891.9	3915.2	3923.6	3956.9	3990.2	4035.1	4085.1	*4083.4*
5°	3643.8	3678.7	3687.1	3718.7	3758.7	3810.3	3878.6	3968.5	4061.8	*4076.8*
7.5°	3385.6	3422.3	3443.9	3507.2	3580.5	3687.1	3798.6	3930.2	4085.1	*4106.7*
10°	3127.5	3160.8	3189.1	3279.1	3395.6	3553.8	3735.4	3925.2	4133.4	*4165.0*
12.5°	2967.6	2999.3	3030.9	3109.2	3254.1	3447.3	3693.7	3948.5	4213.3	*4258.3*
15°	2911.0	2939.3	2964.3	3034.3	3169.1	3389.0	3685.4	3996.8	4314.9	*4374.9*
17.5°	2919.3	2934.3	2951.0	3004.3	3135.8	3362.3	3700.4	4080.1	4434.8	*4488.1*
20°	2967.6	2976.0	2977.6	3014.3	3130.8	3359.0	3730.4	4160.0	4548.1	*4619.7*
22.5°	3029.3	3032.6	3029.3	3054.2	3162.5	3384.0	3770.3	4256.6	4674.6	*4741.2*
25°	3317.4	3254.1	3174.1	3125.9	3215.8	3432.3	3830.3	4386.5	4812.8	*4877.8*
27.5°	4211.7	4030.1	3743.7	3422.3	3325.7	3502.2	3913.6	4518.1	4952.7	*5011.0*
30°	5663.8	5425.7	4939.4	4215.0	3678.7	3648.8	4021.8	4649.6	5100.9	*5164.2*
32.5°	7119.3	7061.1	6499.8	5497.3	4473.1	3975.2	4201.7	4827.8	5297.5	*5347.4*
35°	8591.5	8473.3	8013.6	7022.8	5697.1	4639.6	4501.4	5061.0	5555.6	*5612.2*
37.5°	9718.9	9647.3	9362.6	8546.5	7149.3	5665.5	5014.4	5422.4	5930.3	*5993.6*
40°	10714.8	10681.5	10584.9	10047.0	8773.0	7007.8	5812.1	5981.9	6449.9	*6524.8*
42.5°	11497.5	11575.8	11630.8	11480.9	10446.7	8539.9	6884.5	6768.0	7174.3	*7250.9*
45°	12298.6	12325.2	12546.7	12763.2	12108.7	10141.9	8093.6	7688.9	8075.3	*8170.2*
47.5°	12813.2	12919.7	13309.4	13690.8	13505.9	11730.7	9392.5	8776.4	9119.4	*9297.6*
50°	12851.5	13053.0	13589.2	14253.7	14523.5	13242.8	10804.8	10015.4	10380.1	*10576.6*
52.5°	12213.6	12526.7	13357.7	14330.3	15073.0	14523.5	12265.3	11254.4	11722.4	*11978.8*
55°	9364.2	9773.9	12486.7	13913.9	15094.7	15494.4	13687.5	12545.0	13217.8	*13507.6*
57.5°	8158.5	8365.0	9817.2	13191.2	14693.3	15885.7	14973.1	13774.1	14844.9	*15204.6*
60°	6787.9	7059.4	8233.5	12008.8	14148.8	15924.0	16108.9	15359.5	16608.5	*17013.2*
62.5°	4613.0	4907.8	6075.2	9977.1	13404.4	15905.7	17039.8	16991.5	18568.6	*19003.2*
65°	2857.7	3042.6	3812.0	8146.9	12363.5	15925.7	18014.0	18973.3	20636.9	*21078.3*
67.5°	2258.2	2343.1	2744.5	6255.0	10569.9	15476.0	18986.6	20836.8	22583.7	*22933.5*
70°	*1517.1*	*1568.8*	*1996.7*	*4193.3*	*7863.8*	*13401.0*	*18968.3*	*21772.7*	*23586.3*	*23761.1*
72.5°	799.4	839.3	1167.4	1941.8	4749.6	9525.8	15989.0	20653.6	22588.7	*22325.6*
75°	399.7	466.3	786.0	985.9	2028.4	5312.4	9928.8	16283.7	17779.2	*16760.0*
77.5°	303.1	366.4	649.5	649.5	706.1	1788.6	4205.0	8881.3	8191.8	*6821.2*
80°	193.2	249.8	567.9	491.3	294.8	454.6	1095.8	2488.0	1740.3	*1323.9*
82.5°	113.2	163.2	473.0	324.7	164.9	168.2	309.8	529.6	451.3	*351.4*
85°	45.0	106.6	324.7	128.2	64.9	41.6	93.3	113.2	93.3	*69.9*
87.5°	0.0	25.0	56.6	0.0	5.0	3.3	6.7	8.3	8.3	*6.7*
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°
4113.4	0°	4113.4	4113.4	4113.4	4113.4	4113.4	4113.4	4113.4	4113.4	4113.4	4113.4
4116.7	2.5°	4131.7	4135.0	4145.0	4146.7	4123.4	4093.4	4081.8	4076.8	4056.8	4055.1
4143.4	5°	4181.7	4196.7	4181.7	4138.4	4035.1	3890.2	3780.3	3690.4	3608.8	3583.8
4235.0	7.5°	4281.6	4296.6	4251.6	4081.8	3822.0	3533.9	3274.1	3090.9	2926.0	2864.4
4346.5	10°	4424.8	4444.8	4303.2	3960.2	3500.6	3037.6	2597.9	2288.2	2046.7	1948.5
4498.1	12.5°	4604.7	4613.0	4331.6	3775.3	3082.6	2421.4	1798.6	1467.2	1252.3	1172.4
4681.3	15°	4802.9	4791.2	4334.9	3523.9	2513.0	1712.0	1174.1	964.2	877.6	851.0
4864.5	17.5°	5011.0	4962.7	4268.3	3160.8	1888.5	1170.7	871.0	821.0	806.0	799.4
5046.0	20°	5215.9	5107.6	4146.7	2686.2	1355.6	874.3	791.0	776.1	767.7	764.4
5229.2	22.5°	5402.4	5217.5	3938.5	2135.0	984.2	772.7	747.7	734.4	719.4	712.8
5407.4	25°	5583.9	5280.8	3645.4	1620.4	787.7	722.8	702.8	677.8	657.8	649.5
5598.9	27.5°	5760.4	5320.8	3279.1	1199.0	702.8	676.1	639.5	604.5	589.5	586.2
5803.7	30°	5948.6	5334.1	2862.7	894.3	651.1	617.8	564.6	524.6	516.3	517.9
6080.2	32.5°	6178.4	5354.1	2443.1	732.8	607.9	547.9	484.6	443.0	436.3	443.0
6483.2	35°	6453.2	5394.0	2038.4	674.5	569.5	476.3	408.0	373.0	366.4	371.4
6999.4	37.5°	6826.2	5459.0	1660.3	662.8	537.9	416.3	343.1	314.8	314.8	316.4
7632.3	40°	7322.5	5632.2	1322.3	654.5	521.3	371.4	289.8	278.1	283.1	286.4
8438.3	42.5°	7927.0	6000.2	1094.1	644.5	502.9	351.4	263.1	258.1	266.5	269.8
9404.2	45°	8604.8	6466.5	1014.2	627.8	486.3	364.7	251.5	244.8	254.8	256.5
10486.7	47.5°	9305.9	6922.8	1004.2	609.5	469.6	384.7	248.1	233.1	244.8	246.5
11642.4	50°	10015.4	7220.9	1014.2	581.2	443.0	384.7	249.8	221.5	231.5	236.5
12841.5	52.5°	10729.8	7357.5	1007.5	519.6	396.4	361.4	249.8	211.5	221.5	224.8
14137.1	55°	11422.6	7330.8	905.9	428.0	336.4	319.7	243.1	203.2	209.8	211.5
15361.1	57.5°	11970.5	6959.5	717.8	333.1	273.1	266.5	221.5	193.2	198.2	196.5
16483.6	60°	12256.9	6143.5	512.9	256.5	214.8	209.8	194.8	179.9	183.2	174.9
17434.5	62.5°	12260.3	5064.3	343.1	203.2	171.5	166.5	166.5	161.5	158.2	141.6
18170.6	65°	11998.8	3866.9	228.2	161.5	138.2	129.9	139.9	138.2	126.6	103.3
18395.4	67.5°	11405.9	2534.7	173.2	126.6	106.6	101.6	111.6	116.6	108.2	86.6
17576.0	70°	*10186.9*	*1475.5*	*143.2*	*98.3*	*79.9*	*74.9*	*89.9*	*99.9*	*89.9*	*69.9*
15023.1	72.5°	8461.6	796.0	116.6	73.3	55.0	50.0	71.6	81.6	71.6	51.6
9639.0	75°	5490.6	426.3	89.9	48.3	28.3	31.6	53.3	60.0	50.0	33.3
2829.4	77.5°	1843.5	188.2	56.6	23.3	13.3	13.3	31.6	36.6	23.3	11.7
514.6	80°	411.3	78.3	23.3	10.0	5.0	5.0	6.7	6.7	3.3	0.0
158.2	82.5°	134.9	31.6	10.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
40.0	85°	51.6	11.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.3	87.5°	20.0	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°
4113.4
4058.4
3568.8
2839.4
1906.8
1147.4
851.0
797.7
761.1
711.1
646.2
582.9
517.9
441.3
369.7
314.8
286.4
269.8
258.1
248.1
238.1
224.8
211.5
196.5
173.2
136.6
99.9
84.9
66.6
50.0
30.0
10.0
0.0
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