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: P950744

Luminaire Tested: **GALN-SB5A-835-U-T2R-HSS**

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:	P950744
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB5A-835-U-T2R-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17795 lumens
Efficiency:	N/A
Efficacy:	125.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G2
Input Watts (W):	141.7
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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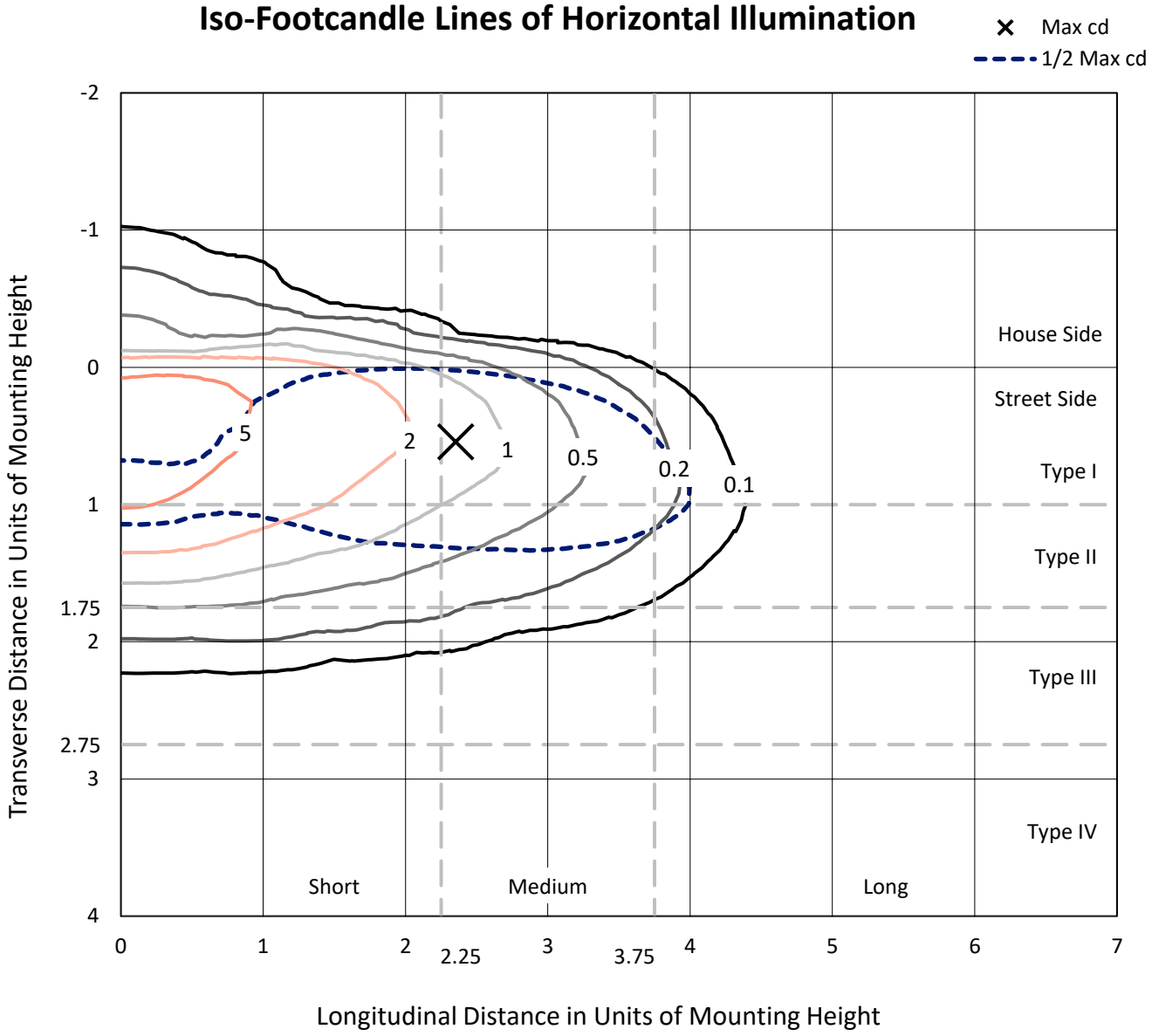
Iso-Footcandle Lines of Horizontal Illumination



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

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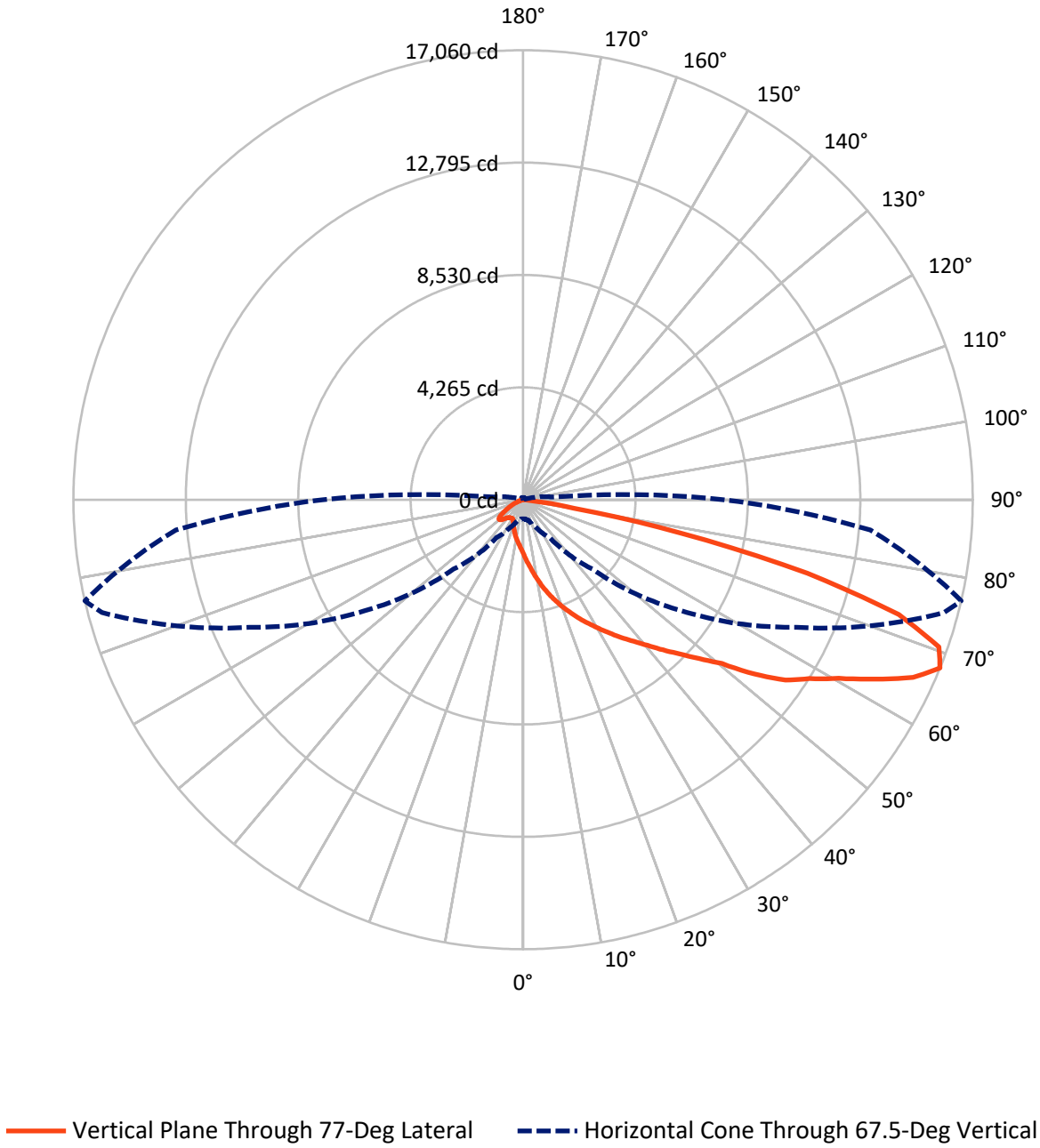
Luminous Intensity Polar Plot



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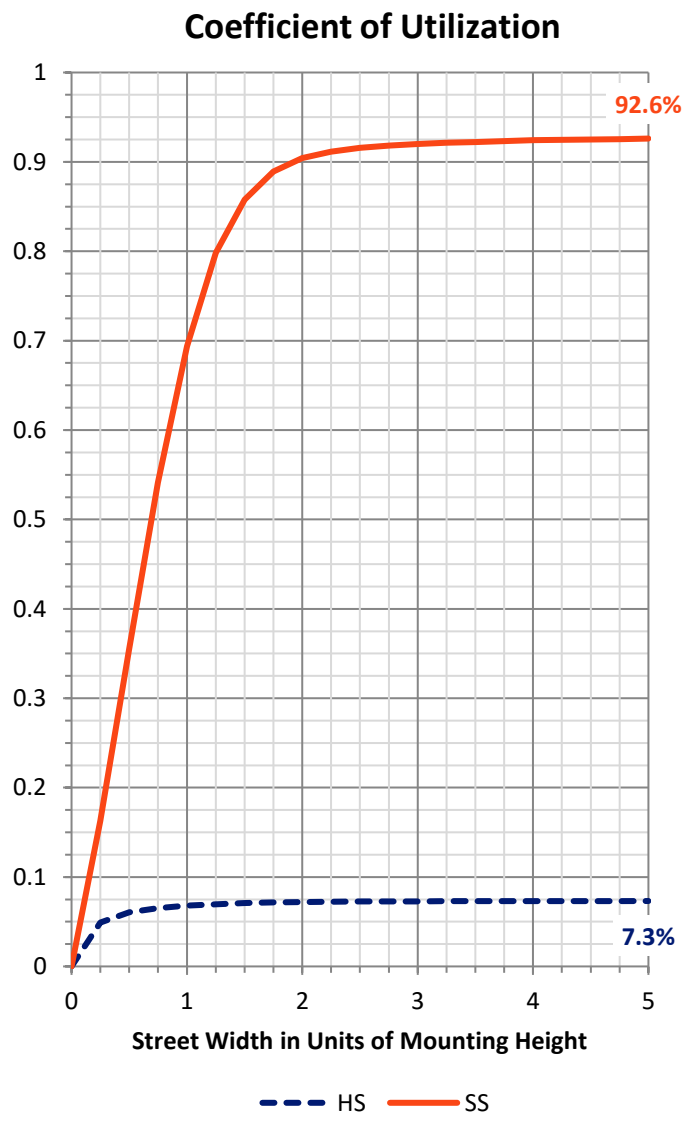
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1309.2	0.0	1309.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	16485.8	0.0	16485.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	17795.0	0.0	17795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	1.2
10°-20°	733.4	4.1
20°-30°	1415.3	8.0
30°-40°	2457.1	13.8
40°-50°	3567.6	20.0
50°-60°	4096.9	23.0
60°-70°	3556.9	20.0
70°-80°	1675.3	9.4
80°-90°	82.9	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°	17795.0	100.0
0°-180°	17795.0	100.0



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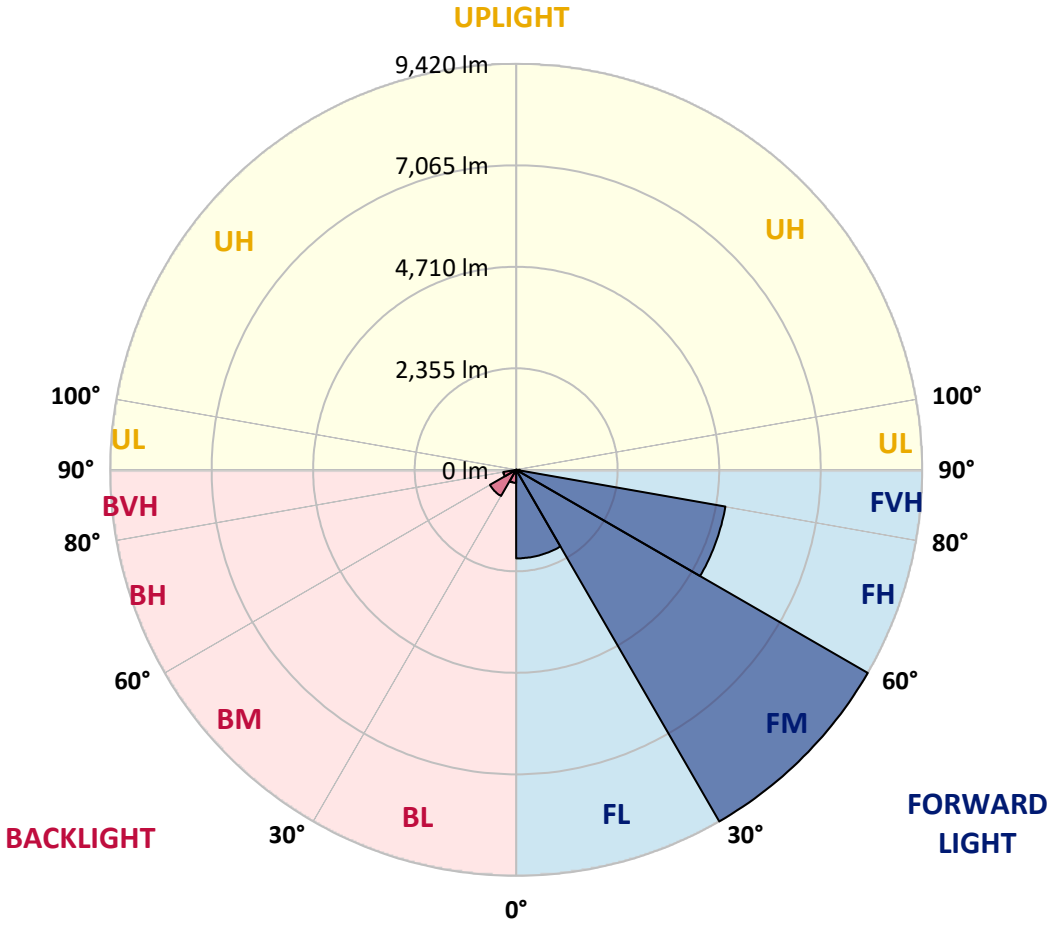
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2055.1	11.5			
FM	(30°-60°)	9420.2	52.9			
FH	(60°-80°)	4929.2	27.7			G2/5000
FVH	(80°-90°)	81.3	0.5			G1/100
BL	(0°-30°)	303.1	1.7	B1/500		
BM	(30°-60°)	701.5	3.9	B1/1000		
BH	(60°-80°)	303.1	1.7	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	*2052.0*
2.5°	2841.0	2858.7	2833.3	2784.7	2711.7	2664.2	2548.2	2438.8	2317.2	*2278.6*
5°	3463.1	3478.6	3449.9	3396.8	3299.6	3206.8	3054.3	2825.5	2588.0	*2511.7*
7.5°	3923.9	3932.8	3921.7	3873.1	3780.3	3675.3	3505.1	3234.4	2881.9	*2797.9*
10°	4255.4	4284.2	4280.9	4262.1	4200.2	4115.1	3933.9	3625.6	3211.2	*3102.9*
12.5°	4475.3	4507.4	4526.2	4568.2	4564.8	4510.7	4351.6	4025.6	3539.4	*3412.3*
15°	4539.4	4573.7	4645.5	4742.8	4828.9	4856.6	4745.0	4417.9	3900.7	*3738.3*
17.5°	4503.0	4556.0	4642.2	4795.8	4984.8	5109.6	5097.5	4796.9	4228.9	*4043.3*
20°	4583.6	4634.5	4701.9	4831.2	5051.1	5277.6	5368.2	5159.3	4554.9	*4360.4*
22.5°	5030.1	5021.2	5027.8	5048.8	5180.3	5404.7	5591.4	5488.6	4877.6	*4678.7*
25°	5737.3	5697.5	5630.1	5516.3	5483.1	5591.4	5785.9	5780.4	5217.9	*5004.6*
27.5°	6548.4	6541.7	6383.7	6109.7	5955.0	5913.0	6005.8	6064.4	5554.9	*5327.3*
30°	7325.2	7342.9	7129.6	6824.6	6540.6	6376.0	6292.0	6334.0	5897.5	*5675.4*
32.5°	8001.5	8020.2	7788.2	7431.3	7079.9	6881.0	6704.2	6600.3	6271.0	*6029.0*
35°	8572.8	8591.5	8325.2	7930.7	7556.1	7376.0	7176.0	6892.0	6646.7	*6421.3*
37.5°	9083.3	9077.8	8720.8	8323.0	7955.1	7812.5	7707.5	7251.2	7033.5	*6815.8*
40°	9384.9	9408.2	9103.2	8664.5	8307.6	8203.7	8197.1	7696.5	7479.9	*7268.8*
42.5°	9473.4	9514.2	9293.2	8933.0	8609.2	8496.5	8670.0	8178.3	7999.3	*7793.7*
45°	9314.2	9354.0	9253.5	9003.7	8814.8	8741.8	9076.6	8677.7	8554.0	*8350.6*
47.5°	8850.1	8899.8	8924.2	8871.1	8868.9	8942.9	9441.3	9203.7	9212.6	*9004.8*
50°	7951.7	8035.7	8258.9	8446.8	8737.4	9102.1	9796.0	9773.9	9955.1	*9776.1*
52.5°	6318.5	6437.9	7207.0	7720.8	8373.9	9072.2	10186.1	10688.9	11258.0	*10996.1*
55°	5077.6	5077.6	5703.0	6664.4	7664.4	8875.5	10356.3	11283.4	12145.3	*12083.4*
57.5°	4139.4	4189.1	4588.0	5437.8	6637.9	8407.0	10461.2	11656.9	12860.2	*12814.9*
60°	2554.8	2662.0	3415.6	4254.3	5469.9	7572.7	10394.9	12034.8	13727.7	*13764.1*
62.5°	1438.7	1478.5	1814.4	3060.9	4253.2	6451.1	9887.7	12245.8	14837.1	*14991.8*
65°	993.4	1013.3	1142.6	1905.1	2948.2	5136.1	8896.5	12114.4	15948.8	*16261.5*
67.5°	*721.6*	*731.5*	*812.2*	*1163.6*	*1749.2*	*3723.9*	*7342.9*	*11451.3*	*16537.8*	*17060.4*
70°	554.7	561.4	619.9	764.7	1033.2	2298.4	5332.8	10133.0	16111.2	*16735.6*
72.5°	450.8	457.5	502.8	565.8	685.1	1359.2	3232.2	8229.1	14228.3	*14902.3*
75°	380.1	389.0	429.9	470.7	537.0	873.0	1516.1	5730.6	10699.9	*11141.9*
77.5°	211.1	194.5	349.2	390.1	453.1	552.5	709.4	3372.5	5992.5	*6115.2*
80°	131.5	135.9	277.4	313.8	348.1	278.5	324.9	1298.4	2077.4	*1973.6*
82.5°	7.7	17.7	213.3	226.5	238.7	119.3	122.7	440.9	500.6	*459.7*
85°	0.0	0.0	97.2	78.5	82.9	34.3	35.4	102.8	67.4	*72.9*
87.5°	0.0	0.0	0.0	2.2	0.0	3.3	6.6	8.8	3.3	*4.4*
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°
2052.0	0°	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0
2157.0	2.5°	2079.7	2002.3	1845.4	1691.8	1566.9	1450.9	1368.0	1289.6	1249.8	1247.6
2296.2	5°	2142.6	1980.2	1666.4	1389.0	1165.8	986.8	870.8	787.9	745.9	731.5
2467.5	7.5°	2231.0	1986.8	1509.5	1123.8	860.8	707.2	640.9	614.4	605.6	595.6
2660.9	10°	2342.6	2002.3	1369.1	905.0	678.5	601.1	574.6	563.6	556.9	550.3
2878.6	12.5°	2467.5	2016.7	1229.9	751.4	596.7	556.9	538.1	524.9	516.0	508.3
3101.8	15°	2589.1	2025.5	1085.1	644.2	554.7	522.7	502.8	488.4	476.3	467.4
3320.6	17.5°	2709.5	2037.7	949.2	580.1	520.5	488.4	468.5	450.8	440.9	431.0
3550.4	20°	2843.2	2035.4	821.0	534.8	486.2	454.2	433.2	416.6	406.6	395.6
3793.5	22.5°	2967.0	2024.4	708.3	496.2	450.8	419.9	396.7	380.1	370.2	361.3
4042.2	25°	3109.5	2015.6	614.4	460.8	417.7	386.8	361.3	345.9	334.8	327.1
4291.9	27.5°	3246.6	2002.3	545.9	428.7	385.7	355.8	331.5	313.8	303.9	298.4
4549.4	30°	3381.4	1999.0	520.5	397.8	356.9	327.1	302.8	286.2	278.5	276.3
4832.3	32.5°	3543.8	2007.8	531.5	386.8	330.4	300.6	277.4	265.2	257.5	257.5
5147.2	35°	3717.3	2005.6	548.1	396.7	312.7	274.0	256.4	248.6	240.9	240.9
5496.4	37.5°	3935.0	2008.9	561.4	413.3	306.1	251.9	242.0	232.1	227.6	227.6
5878.7	40°	4259.9	2118.3	554.7	427.6	303.9	236.5	216.6	213.3	210.0	210.0
6310.8	42.5°	4657.7	2355.9	563.6	428.7	302.8	225.4	198.9	205.5	197.8	196.7
6798.1	45°	5093.0	2615.6	619.9	405.5	301.7	219.9	190.1	197.8	185.6	185.6
7362.8	47.5°	5525.1	2873.1	677.4	372.4	298.4	218.8	182.3	177.9	174.6	175.7
8098.7	50°	6120.7	3083.0	699.5	327.1	290.6	216.6	168.0	169.1	166.9	169.1
9136.3	52.5°	6769.4	3127.2	673.0	276.3	268.5	210.0	158.0	162.4	161.3	163.5
9866.7	55°	7173.8	3079.7	555.8	229.8	234.3	183.4	148.1	156.9	156.9	156.9
10580.6	57.5°	7591.5	2877.5	394.5	186.7	194.5	150.3	139.2	151.4	150.3	149.2
11440.3	60°	7892.1	2550.4	259.7	153.6	154.7	123.8	129.3	142.5	141.4	135.9
12326.5	62.5°	8116.4	2189.0	166.9	130.4	118.2	111.6	118.2	129.3	124.9	112.7
13077.9	65°	8091.0	1688.5	128.2	111.6	97.2	97.2	102.8	112.7	99.5	79.6
13221.6	67.5°	*7619.1*	*1142.6*	*106.1*	*93.9*	*81.8*	*80.7*	*85.1*	*93.9*	*85.1*	*67.4*
12485.6	70°	6776.0	747.0	85.1	72.9	65.2	59.7	68.5	80.7	71.8	54.1
10629.2	72.5°	5499.7	455.3	64.1	53.0	47.5	38.7	54.1	66.3	57.5	39.8
7391.5	75°	3558.2	232.1	44.2	34.3	25.4	23.2	39.8	49.7	39.8	24.3
3279.7	77.5°	1361.4	97.2	24.3	15.5	13.3	11.1	22.1	29.8	16.6	5.5
635.4	80°	261.9	40.9	12.2	7.7	6.6	4.4	3.3	2.2	0.0	0.0
112.7	82.5°	45.3	13.3	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
22.1	85°	15.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	5.5	0.0	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°
2052.0
1245.4
729.3
593.4
548.1
506.1
466.3
429.9
394.5
360.2
326.0
298.4
275.2
257.5
240.9
227.6
210.0
195.6
185.6
175.7
169.1
163.5
156.9
149.2
135.9
110.5
77.4
65.2
51.9
37.6
21.0
4.4
0.0
0.0
0.0
0.0
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