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: P950011

Luminaire Tested: **GALN-SB4C-830-U-T2U-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:	P950011
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB4C-830-U-T2U-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	20611 lumens
Efficiency:	N/A
Efficacy:	102.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G3
Input Watts (W):	200.7
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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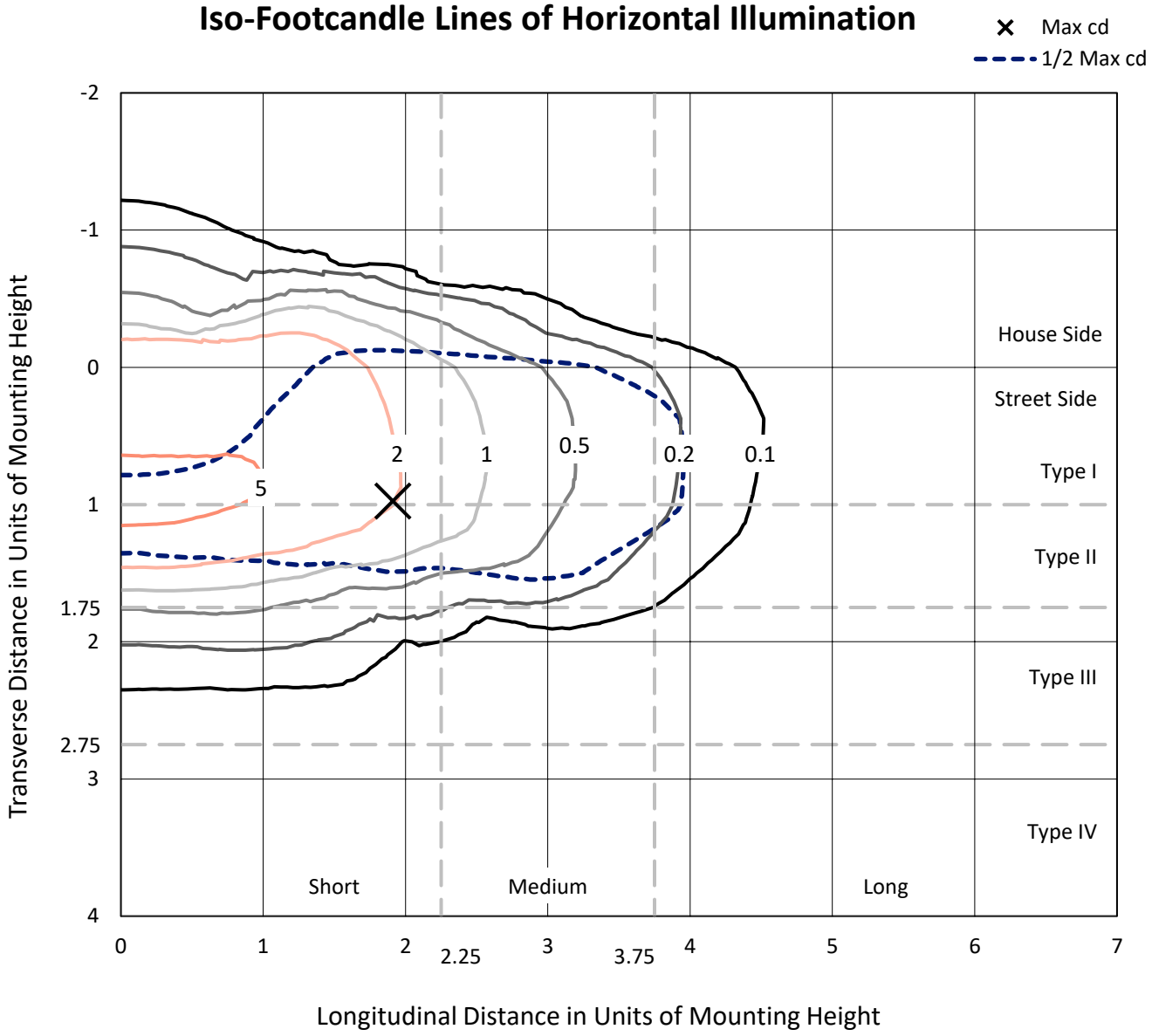
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

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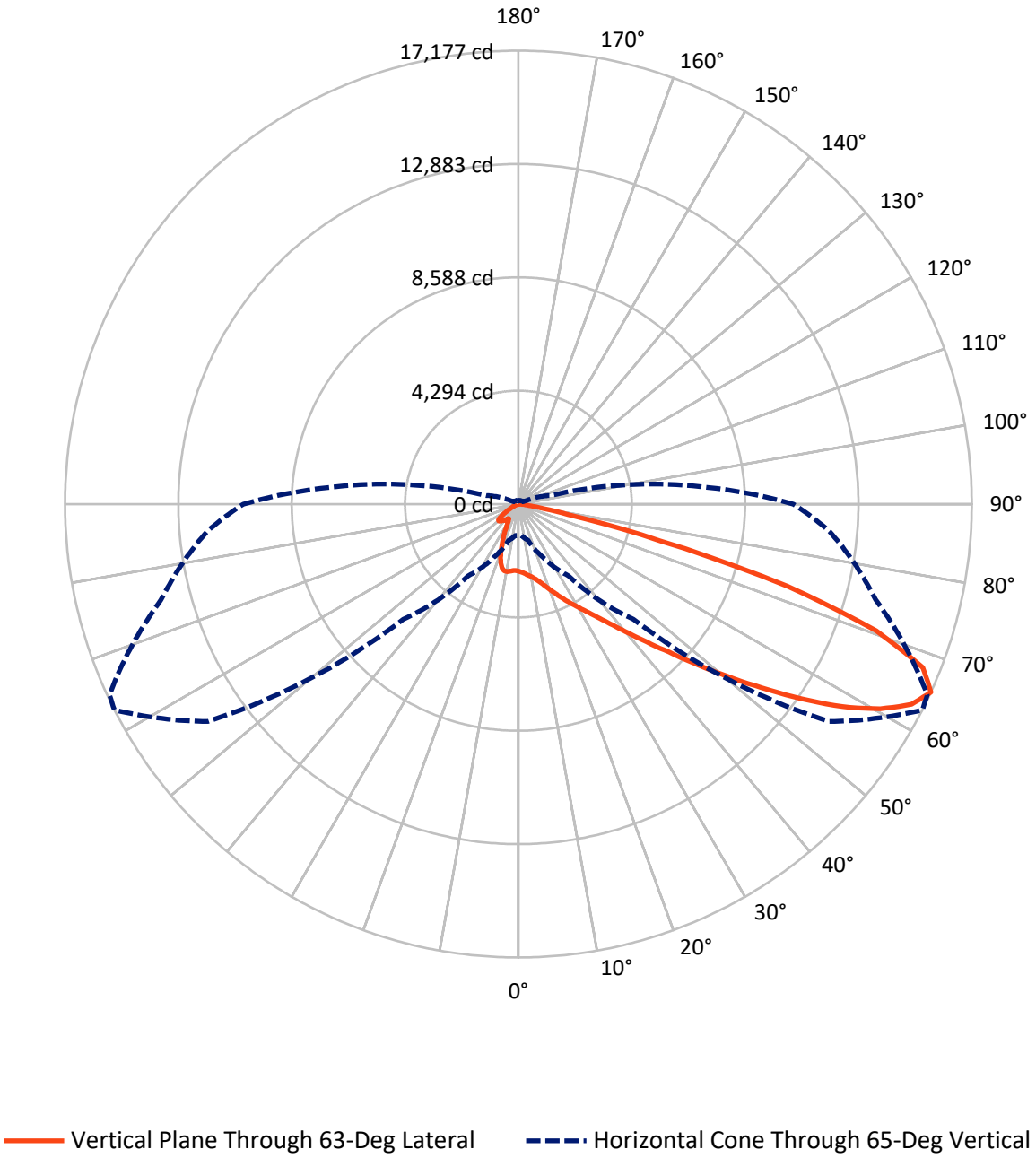
Luminous Intensity Polar Plot



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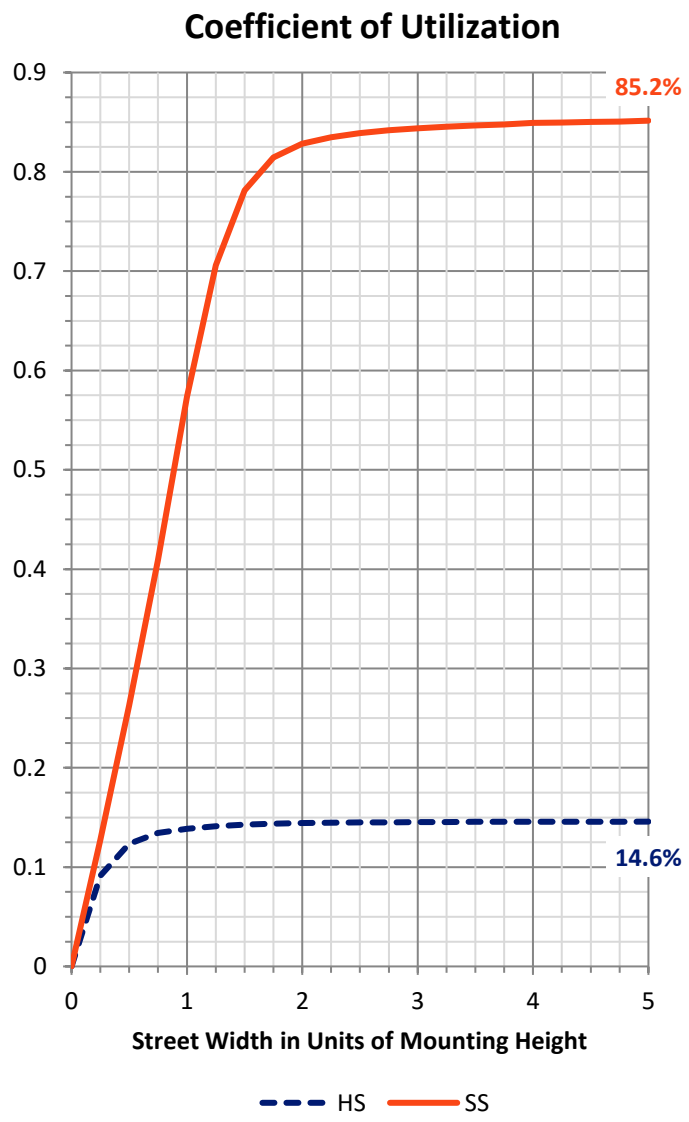
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3029.7	0.0	3029.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17581.4	0.0	17581.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	20611.0	0.0	20611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.7	1.2
10°-20°	665.0	3.2
20°-30°	1157.9	5.6
30°-40°	2087.1	10.1
40°-50°	4139.3	20.1
50°-60°	5638.4	27.4
60°-70°	4500.6	21.8
70°-80°	2036.6	9.9
80°-90°	146.4	0.7
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°	20611.0	100.0
0°-180°	20611.0	100.0



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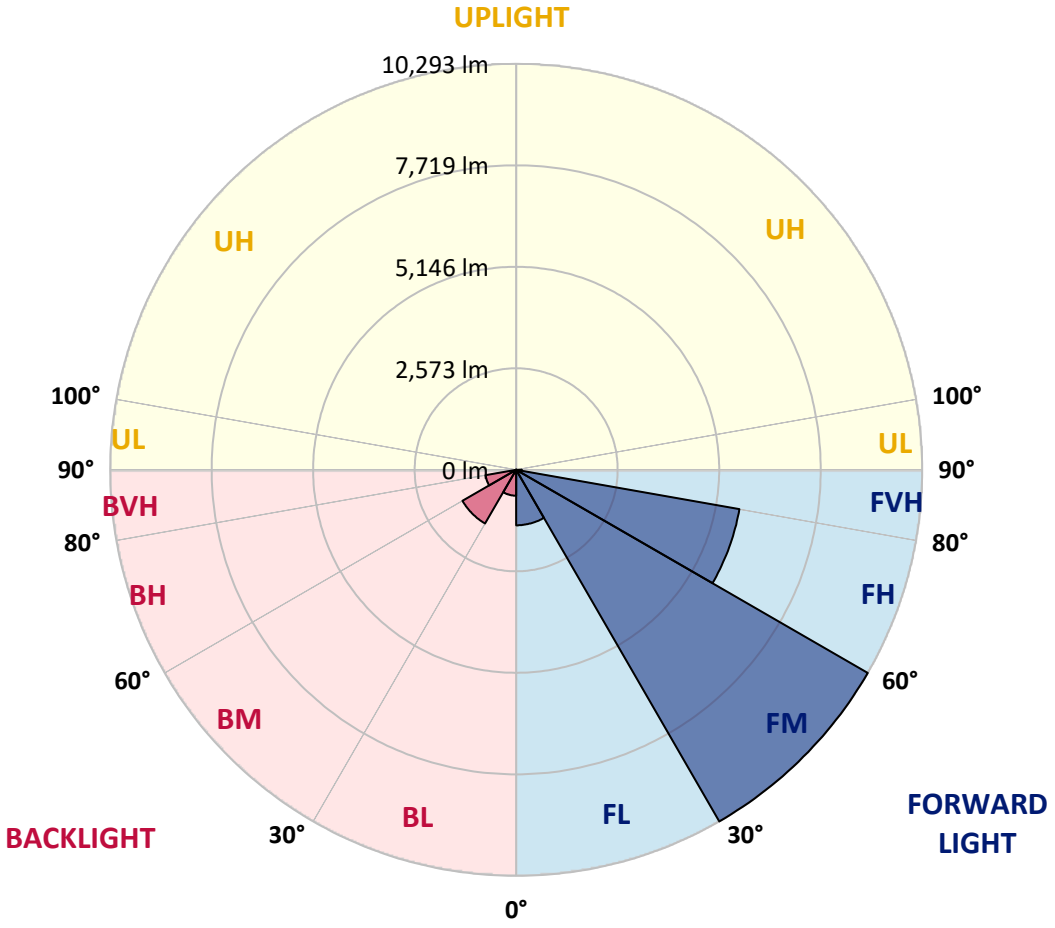
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1407.0	6.8			
FM	(30°-60°)	10292.6	49.9			
FH	(60°-80°)	5746.2	27.9			G3/7500
FVH	(80°-90°)	135.5	0.7			G2/225
BL	(0°-30°)	655.7	3.2	B2/1000		
BM	(30°-60°)	1572.2	7.6	B2/2500		
BH	(60°-80°)	790.9	3.8	B2/1000		G2/1000
BVH	(80°-90°)	10.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2543.8	2543.8	2543.8	2543.8	2543.8	2543.8	2543.8	*2543.8*	2543.8	2543.8
2.5°	2603.3	2596.3	2606.2	2601.9	2599.1	2593.4	2590.6	*2587.7*	2582.1	2577.8
5°	2610.4	2606.2	2616.1	2624.6	2633.1	2641.6	2645.9	*2651.6*	2645.9	2634.5
7.5°	2550.9	2548.0	2569.3	2594.8	2633.1	2665.7	2701.2	*2721.0*	2722.4	2718.2
10°	2546.6	2539.5	2560.8	2592.0	2641.6	2699.8	2762.1	*2804.7*	2810.4	2828.8
12.5°	2613.3	2606.2	2636.0	2670.0	2721.0	2782.0	2858.6	*2918.1*	2926.6	2952.2
15°	2725.3	2715.4	2749.4	2793.3	2858.6	2928.0	3008.9	*3062.8*	3069.8	3101.0
17.5°	2855.7	2845.8	2885.5	2932.3	3003.2	3098.2	3191.8	*3251.3*	3259.8	3279.7
20°	3023.1	3010.3	3041.5	3084.0	3159.2	3272.6	3384.6	*3469.7*	3468.3	3468.3
22.5°	3217.3	3197.5	3224.4	3258.4	3329.3	3466.9	3615.8	*3716.4*	3716.4	3676.7
25°	3425.7	3405.9	3435.7	3466.9	3529.3	3685.2	3859.6	*3984.4*	3990.1	3922.0
27.5°	3686.6	3661.1	3683.8	3720.7	3757.5	3916.4	4123.4	*4268.0*	4270.8	4165.9
30°	4188.6	4116.3	4045.4	4005.7	4022.7	4180.1	4401.3	*4561.5*	4575.7	4431.1
32.5°	5107.4	5093.2	4843.7	4517.6	4347.4	4463.7	4711.8	*4904.7*	4913.2	4727.4
35°	6535.3	6518.3	6117.0	5495.9	4941.5	4843.7	5089.0	*5317.3*	5311.6	5101.8
37.5°	8239.7	8224.1	7695.2	6864.3	5966.7	5418.0	5575.3	*5815.0*	5850.4	5575.3
40°	9695.9	9637.7	9303.1	8502.0	7327.9	6370.8	6267.3	*6426.1*	6463.0	6136.9
42.5°	10799.0	10749.4	10579.3	10078.7	8975.6	7780.2	7082.6	*7143.6*	7184.7	6793.4
45°	11370.5	11359.1	11427.2	11380.4	10654.4	9510.1	8248.2	*7994.4*	8010.0	7520.8
47.5°	11451.3	11445.6	11756.2	12195.7	12097.9	11461.2	9744.1	*9055.0*	8999.7	8341.7
50°	10974.9	10963.5	11559.1	12382.9	13062.1	13100.4	11442.8	*10250.3*	10128.4	9191.1
52.5°	9453.4	9450.6	10429.0	11800.1	13401.0	14535.3	13121.6	*11563.3*	11359.1	10090.1
55°	7274.0	7326.5	8448.1	10068.8	12782.7	15225.9	14628.9	*13021.0*	12707.6	10994.7
57.5°	5152.8	5229.4	6338.2	7781.7	10865.7	14817.5	15648.4	*14481.4*	14144.0	11896.5
60°	2767.8	2835.9	3946.1	5668.9	8083.7	13294.6	16185.8	*15749.1*	15430.0	12753.0
62.5°	1649.1	1671.8	2131.2	3659.7	5467.6	10156.7	15957.5	*16714.7*	16452.4	13471.9
65°	*1184.0*	*1188.2*	*1419.4*	*2234.7*	*3319.4*	*6170.9*	*14356.7*	*17176.9*	*17096.1*	*14013.5*
67.5°	996.8	994.0	1090.4	1484.6	2261.6	3091.1	11003.2	*16523.3*	16866.4	14356.7
70°	855.0	859.3	972.7	1087.6	1700.1	1749.7	5470.4	*14386.4*	15118.1	14447.4
72.5°	636.7	650.8	755.8	991.1	1283.2	1203.8	1888.7	*10667.2*	11990.1	13612.2
75°	449.5	456.6	531.7	833.7	957.1	876.3	964.2	*5514.4*	7210.2	10436.0
77.5°	346.0	358.7	402.7	582.8	942.9	615.4	589.9	*1908.5*	2932.3	6304.2
80°	187.2	209.9	290.7	421.1	662.2	435.3	292.1	*760.0*	994.0	2947.9
82.5°	96.4	107.8	202.8	303.4	377.2	380.0	144.6	*316.2*	409.8	910.3
85°	38.3	46.8	136.1	167.3	194.3	187.2	65.2	*127.6*	147.5	252.4
87.5°	8.5	14.2	49.6	38.3	36.9	39.7	15.6	*29.8*	28.4	29.8
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°
2543.8	0°	2543.8	2543.8	2543.8	2543.8	2543.8	2543.8	2543.8	2543.8	2543.8	2543.8
2560.8	2.5°	2559.4	2553.7	2538.1	2521.1	2501.2	2489.9	2482.8	2481.4	2471.5	2464.4
2617.5	5°	2601.9	2596.3	2566.5	2531.0	2492.7	2463.0	2434.6	2409.1	2372.2	2365.1
2699.8	7.5°	2687.0	2671.4	2623.2	2575.0	2502.7	2416.2	2311.2	2190.7	2083.0	2050.3
2808.9	10°	2791.9	2770.7	2709.7	2624.6	2464.4	2229.0	1975.2	1739.8	1552.6	1500.2
2938.0	12.5°	2911.0	2892.6	2811.8	2654.4	2304.2	1877.4	1488.8	1196.7	1015.2	969.9
3075.5	15°	3052.8	3025.9	2913.9	2609.0	2017.7	1426.4	1022.3	849.3	784.1	775.6
3232.9	17.5°	3203.1	3159.2	3004.6	2445.9	1632.1	1013.8	789.8	740.2	711.8	703.3
3391.7	20°	3340.7	3284.0	3058.5	2199.2	1219.4	789.8	707.6	674.9	649.4	639.5
3550.5	22.5°	3478.2	3397.4	3058.5	1863.2	914.6	700.5	649.4	619.6	589.9	577.1
3720.7	25°	3621.4	3513.7	3004.6	1488.8	735.9	642.3	594.1	561.5	536.0	520.4
3882.3	27.5°	3760.4	3611.5	2881.3	1134.4	655.1	591.3	543.1	511.9	487.8	476.4
4058.1	30°	3892.2	3707.9	2708.3	860.7	602.6	541.7	496.3	469.3	445.2	433.9
4286.4	32.5°	4070.9	3829.9	2523.9	706.1	557.3	494.9	453.7	428.2	406.9	398.4
4582.8	35°	4319.0	4009.9	2365.1	693.4	519.0	456.6	415.5	391.4	370.1	363.0
4965.6	37.5°	4670.7	4300.6	2281.5	778.4	487.8	422.5	384.3	358.7	338.9	333.2
5452.0	40°	5104.6	4694.8	2326.8	863.5	466.5	392.8	355.9	330.4	313.4	306.3
6010.7	42.5°	5619.3	5181.2	2577.8	928.8	452.3	367.2	329.0	300.6	289.3	286.4
6644.5	45°	6210.6	5715.7	2962.1	998.2	429.6	343.1	302.0	280.8	272.2	270.8
7333.6	47.5°	6882.7	6302.7	3407.3	1084.7	406.9	320.5	280.8	266.6	259.5	256.6
8052.5	50°	7549.1	6894.0	3865.3	1132.9	388.5	299.2	263.7	252.4	246.7	245.3
8812.5	52.5°	8246.7	7502.3	4235.4	1087.6	372.9	282.2	249.6	241.1	235.4	234.0
9513.0	55°	8911.8	7994.4	4299.2	923.1	341.7	265.2	234.0	229.7	222.6	222.6
10223.4	57.5°	9484.6	8241.1	3848.3	677.8	310.5	239.6	218.4	214.1	208.4	207.0
10864.3	60°	10010.7	8170.2	2970.6	456.6	276.5	214.1	198.5	195.7	190.0	182.9
11421.5	62.5°	10307.0	7858.2	2031.9	297.8	242.5	187.2	175.8	174.4	161.6	147.5
11834.1	65°	*10419.0*	*7217.3*	*1267.6*	*216.9*	*202.8*	*160.2*	*151.7*	*148.9*	*130.5*	*114.9*
12068.1	67.5°	10321.2	6162.4	639.5	171.6	160.2	133.3	124.8	124.8	112.0	97.8
12053.9	70°	9929.8	4619.7	269.4	137.5	123.4	102.1	102.1	107.8	95.0	79.4
11428.6	72.5°	9080.5	3108.1	143.2	104.9	92.2	72.3	83.7	87.9	75.2	59.6
9354.2	75°	7218.7	1895.8	99.3	78.0	58.1	51.0	63.8	66.6	51.0	39.7
6413.3	77.5°	4937.3	1089.0	66.6	49.6	36.9	29.8	44.0	41.1	26.9	18.4
2472.9	80°	2168.0	453.7	38.3	22.7	14.2	11.3	15.6	11.3	8.5	5.7
338.9	82.5°	253.8	106.3	14.2	8.5	5.7	2.8	1.4	0.0	0.0	0.0
103.5	85°	52.5	12.8	7.1	2.8	1.4	0.0	0.0	0.0	0.0	0.0
18.4	87.5°	9.9	2.8	1.4	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°
2543.8
2471.5
2362.3
2034.7
1480.3
957.1
767.1
699.0
633.8
570.0
514.7
476.4
435.3
398.4
363.0
331.8
304.9
286.4
269.4
256.6
245.3
234.0
221.2
205.6
181.5
144.6
113.4
96.4
78.0
59.6
38.3
19.9
5.7
0.0
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0.0
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