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: P953558

Luminaire Tested: **GALN-SB7A-827-U-T2R-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:	P953558
	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-SB7A-827-U-T2R-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(7) 80 CRI, 2700K, 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:	23487 lumens
Efficiency:	N/A
Efficacy:	118.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G3
Input Watts (W):	199.1
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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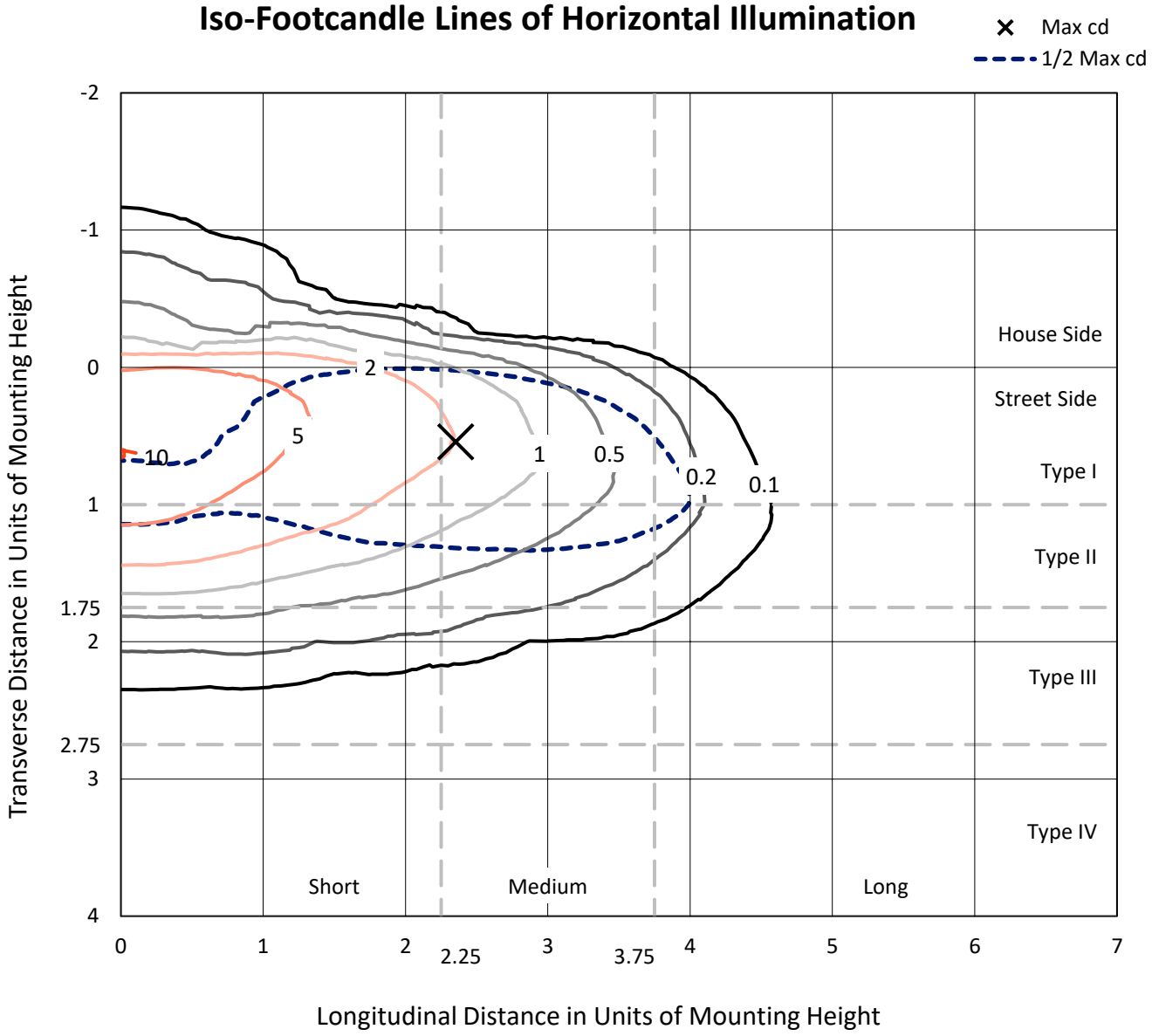
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type II - Medium - N/A

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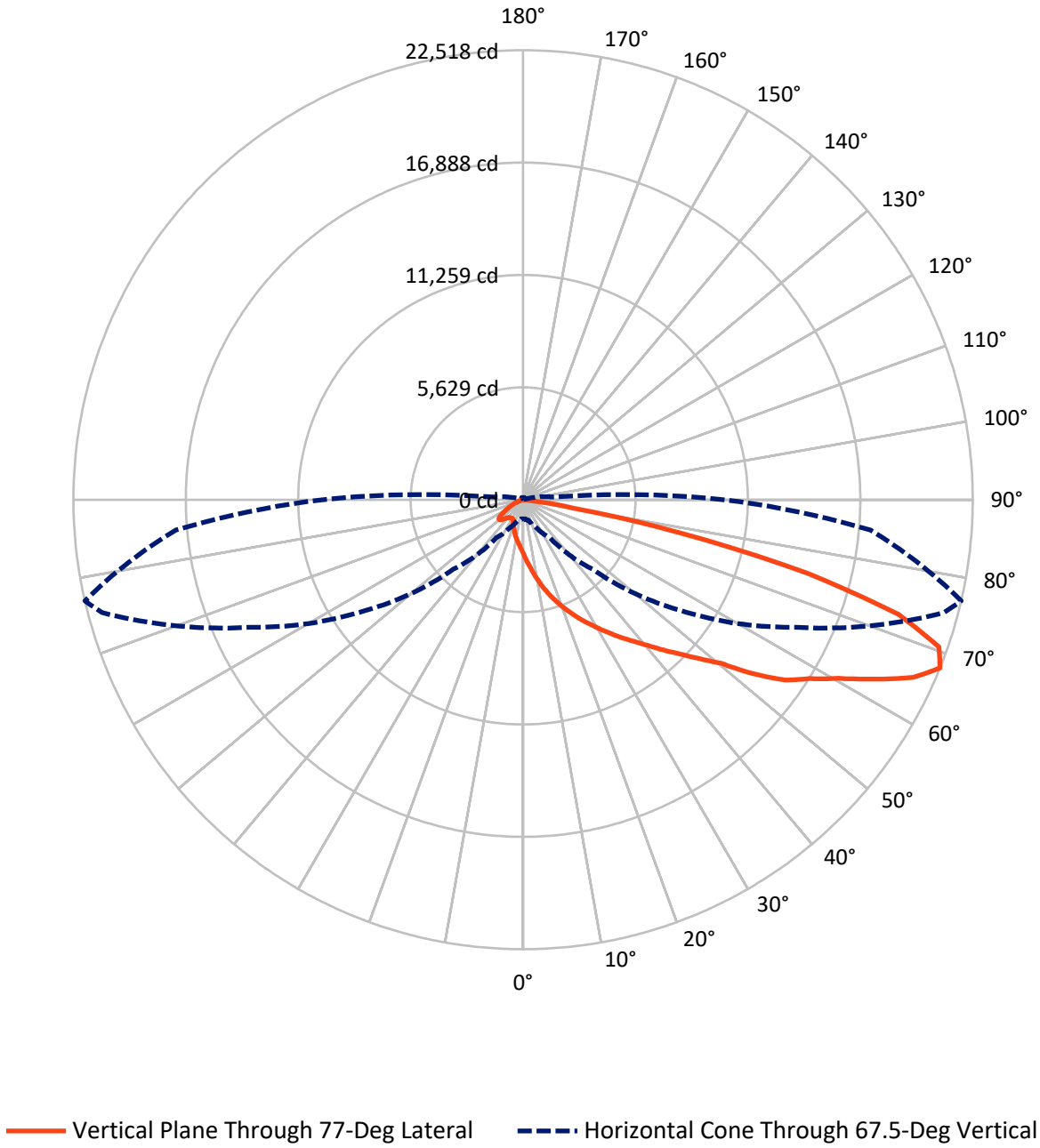
Luminous Intensity Polar Plot



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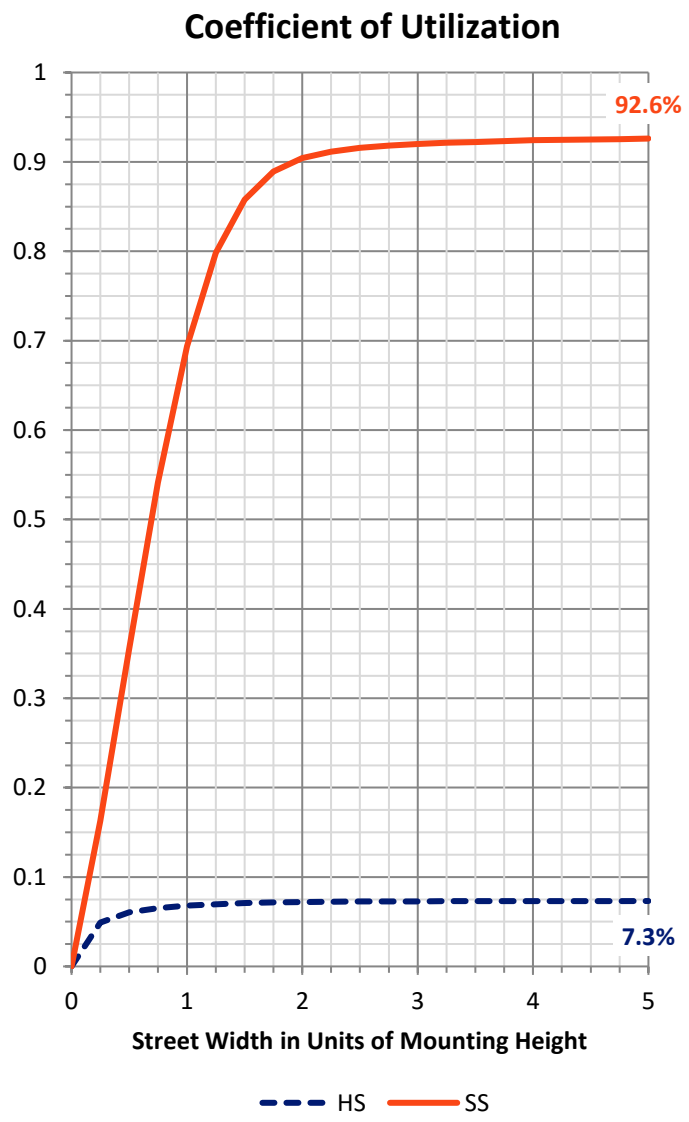
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1727.9	0.0	1727.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	21759.0	0.0	21759.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	23487.0	0.0	23487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.2
10°-20°	968.0	4.1
20°-30°	1868.1	8.0
30°-40°	3243.1	13.8
40°-50°	4708.8	20.0
50°-60°	5407.4	23.0
60°-70°	4694.6	20.0
70°-80°	2211.2	9.4
80°-90°	109.4	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°	23487.0	100.0
0°-180°	23487.0	100.0



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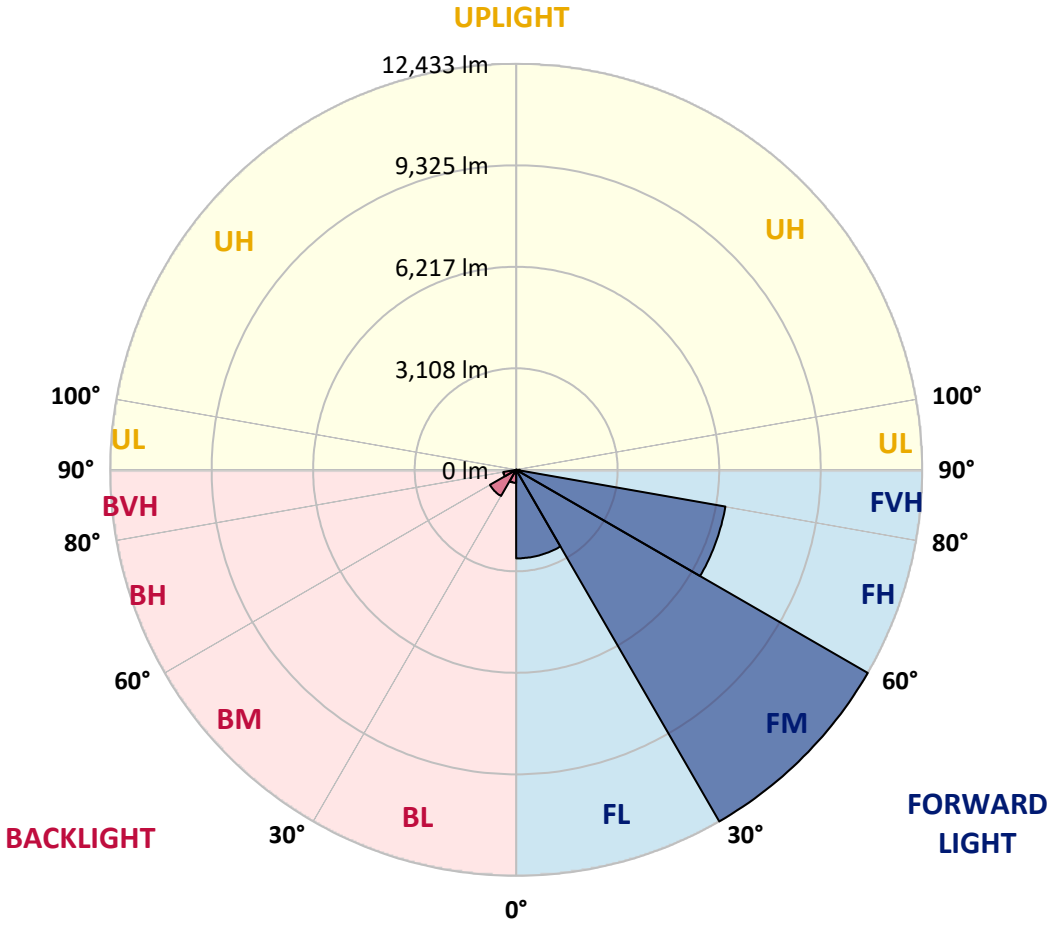
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2712.5	11.5			
FM	(30°-60°)	12433.4	52.9			
FH	(60°-80°)	6505.8	27.7			G3/7500
FVH	(80°-90°)	107.3	0.5			G2/225
BL	(0°-30°)	400.0	1.7	B1/500		
BM	(30°-60°)	925.9	3.9	B1/1000		
BH	(60°-80°)	400.0	1.7	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G3
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	*2708.4*
2.5°	3749.8	3773.1	3739.5	3675.4	3579.1	3516.4	3363.3	3218.9	3058.4	*3007.4*
5°	4570.9	4591.3	4553.4	4483.4	4355.0	4232.5	4031.2	3729.3	3415.8	*3315.1*
7.5°	5179.1	5190.7	5176.1	5112.0	4989.5	4850.9	4626.3	4269.0	3803.7	*3692.9*
10°	5616.6	5654.5	5650.1	5625.4	5543.7	5431.4	5192.2	4785.3	4238.3	*4095.4*
12.5°	5906.8	5949.1	5973.9	6029.4	6025.0	5953.5	5743.5	5313.2	4671.5	*4503.8*
15°	5991.4	6036.6	6131.4	6259.8	6373.6	6410.0	6262.7	5831.0	5148.4	*4934.0*
17.5°	5943.3	6013.3	6127.1	6329.8	6579.2	6744.0	6728.0	6331.3	5581.6	*5336.6*
20°	6049.8	6116.9	6205.8	6376.5	6666.7	6965.7	7085.3	6809.6	6011.9	*5755.2*
22.5°	6639.0	6627.3	6636.1	6663.8	6837.4	7133.4	7379.9	7244.3	6437.7	*6175.2*
25°	7572.4	7519.9	7431.0	7280.7	7237.0	7379.9	7636.6	7629.3	6886.9	*6605.5*
27.5°	8642.9	8634.2	8425.6	8063.9	7859.7	7804.3	7926.8	8004.1	7331.8	*7031.3*
30°	9668.3	9691.6	9410.1	9007.6	8632.7	8415.4	8304.6	8360.0	7783.9	*7490.8*
32.5°	10560.8	10585.6	10279.4	9808.3	9344.5	9082.0	8848.6	8711.5	8276.9	*7957.5*
35°	11314.9	11339.7	10988.2	10467.5	9973.1	9735.4	9471.4	9096.5	8772.8	*8475.2*
37.5°	11988.7	11981.4	11510.3	10985.3	10499.6	10311.4	10172.9	9570.5	9283.2	*8995.9*
40°	12386.9	12417.5	12015.0	11435.9	10964.8	10827.8	10819.0	10158.3	9872.4	*9593.9*
42.5°	12503.5	12557.5	12265.8	11790.3	11363.0	11214.2	11443.2	10794.2	10557.9	*10286.7*
45°	12293.5	12346.0	12213.3	11883.7	11634.3	11538.0	11980.0	11453.4	11290.1	*11021.7*
47.5°	11681.0	11746.6	11778.7	11708.7	11705.8	11803.5	12461.2	12147.7	12159.3	*11885.1*
50°	10495.2	10606.1	10900.7	11148.6	11532.2	12013.5	12929.4	12900.3	13139.4	*12903.2*
52.5°	8339.6	8497.1	9512.2	10190.4	11052.4	11974.1	13444.3	14107.9	14859.0	*14513.3*
55°	6701.7	6701.7	7527.2	8796.1	10116.0	11714.5	13668.9	14892.5	16030.1	*15948.5*
57.5°	5463.5	5529.1	6055.6	7177.2	8761.1	11096.1	13807.4	15385.5	16973.8	*16914.0*
60°	3372.0	3513.5	4508.2	5615.1	7219.5	9995.0	13719.9	15884.3	18118.7	*18166.8*
62.5°	1898.9	1951.4	2394.8	4040.0	5613.7	8514.6	13050.5	16162.9	19583.0	*19787.2*
65°	1311.2	1337.4	1508.1	2514.4	3891.2	6779.0	11742.2	15989.3	21050.2	*21463.0*
67.5°	*952.4*	*965.5*	*1072.0*	*1535.8*	*2308.8*	*4915.1*	*9691.6*	*15114.2*	*21827.6*	*22517.5*
70°	732.2	740.9	818.2	1009.3	1363.7	3033.6	7038.6	13374.3	21264.6	*22088.7*
72.5°	595.1	603.8	663.6	746.7	904.3	1793.9	4266.1	10861.3	18779.4	*19669.1*
75°	501.7	513.4	567.3	621.3	708.8	1152.2	2001.0	7563.7	14122.5	*14705.8*
77.5°	278.6	256.7	460.9	514.8	598.0	729.2	936.3	4451.3	7909.3	*8071.2*
80°	173.6	179.4	366.1	414.2	459.4	367.5	428.8	1713.7	2741.9	*2604.8*
82.5°	10.2	23.3	281.5	299.0	315.0	157.5	161.9	581.9	660.7	*606.7*
85°	0.0	0.0	128.3	103.6	109.4	45.2	46.7	135.6	89.0	*96.3*
87.5°	0.0	0.0	0.0	2.9	0.0	4.4	8.8	11.7	4.4	*5.8*
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°
2708.4	0°	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4
2847.0	2.5°	2744.9	2642.8	2435.7	2232.9	2068.1	1915.0	1805.6	1702.0	1649.5	1646.6
3030.7	5°	2828.0	2613.6	2199.4	1833.3	1538.7	1302.4	1149.3	1039.9	984.5	965.5
3256.8	7.5°	2944.7	2622.3	1992.3	1483.3	1136.2	933.4	845.9	810.9	799.2	786.1
3512.0	10°	3092.0	2642.8	1807.1	1194.5	895.5	793.4	758.4	743.8	735.1	726.3
3799.3	12.5°	3256.8	2661.7	1623.3	991.8	787.6	735.1	710.3	692.8	681.1	670.9
4094.0	15°	3417.2	2673.4	1432.2	850.3	732.2	689.9	663.6	644.6	628.6	616.9
4382.7	17.5°	3576.2	2689.4	1252.8	765.7	686.9	644.6	618.4	595.1	581.9	568.8
4686.1	20°	3752.7	2686.5	1083.7	705.9	641.7	599.4	571.7	549.8	536.7	522.1
5007.0	22.5°	3916.0	2671.9	934.9	654.9	595.1	554.2	523.6	501.7	488.6	476.9
5335.1	25°	4104.2	2660.3	810.9	608.2	551.3	510.5	476.9	456.5	441.9	431.7
5664.7	27.5°	4285.0	2642.8	720.5	565.9	509.0	469.6	437.5	414.2	401.1	393.8
6004.6	30°	4462.9	2638.4	686.9	525.1	471.1	431.7	399.6	377.7	367.5	364.6
6377.9	32.5°	4677.3	2650.1	701.5	510.5	436.1	396.7	366.1	350.0	339.8	339.8
6793.6	35°	4906.3	2647.1	723.4	523.6	412.7	361.7	338.4	328.2	317.9	317.9
7254.5	37.5°	5193.6	2651.5	740.9	545.5	404.0	332.5	319.4	306.3	300.4	300.4
7759.1	40°	5622.4	2795.9	732.2	564.4	401.1	312.1	285.9	281.5	277.1	277.1
8329.4	42.5°	6147.5	3109.5	743.8	565.9	399.6	297.5	262.5	271.3	261.1	259.6
8972.6	45°	6722.1	3452.2	818.2	535.3	398.2	290.2	250.9	261.1	245.0	245.0
9717.8	47.5°	7292.4	3792.0	894.0	491.5	393.8	288.8	240.6	234.8	230.4	231.9
10689.2	50°	8078.5	4069.2	923.2	431.7	383.6	285.9	221.7	223.1	220.2	223.1
12058.7	52.5°	8934.6	4127.5	888.2	364.6	354.4	277.1	208.6	214.4	212.9	215.9
13022.8	55°	9468.4	4064.8	733.6	303.4	309.2	242.1	195.4	207.1	207.1	207.1
13964.9	57.5°	10019.8	3797.9	520.7	246.5	256.7	198.4	183.8	199.8	198.4	196.9
15099.6	60°	10416.5	3366.2	342.7	202.7	204.2	163.3	170.6	188.1	186.7	179.4
16269.3	62.5°	10712.5	2889.2	220.2	172.1	156.1	147.3	156.1	170.6	164.8	148.8
17261.1	65°	10679.0	2228.6	169.2	147.3	128.3	128.3	135.6	148.8	131.3	105.0
17450.7	67.5°	*10056.2*	*1508.1*	*140.0*	*124.0*	*107.9*	*106.5*	*112.3*	*124.0*	*112.3*	*89.0*
16479.4	70°	8943.4	985.9	112.3	96.3	86.1	78.8	90.4	106.5	94.8	71.5
14029.1	72.5°	7258.9	600.9	84.6	70.0	62.7	51.0	71.5	87.5	75.8	52.5
9755.8	75°	4696.3	306.3	58.3	45.2	33.5	30.6	52.5	65.6	52.5	32.1
4328.8	77.5°	1796.8	128.3	32.1	20.4	17.5	14.6	29.2	39.4	21.9	7.3
838.6	80°	345.7	54.0	16.0	10.2	8.8	5.8	4.4	2.9	0.0	0.0
148.8	82.5°	59.8	17.5	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
29.2	85°	20.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.2	87.5°	7.3	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°
2708.4
1643.7
962.6
783.2
723.4
668.0
615.5
567.3
520.7
475.5
430.3
393.8
363.2
339.8
317.9
300.4
277.1
258.2
245.0
231.9
223.1
215.9
207.1
196.9
179.4
145.8
102.1
86.1
68.5
49.6
27.7
5.8
0.0
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