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: P954739

Luminaire Tested: **GALN-SB7D-927-U-T3R**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

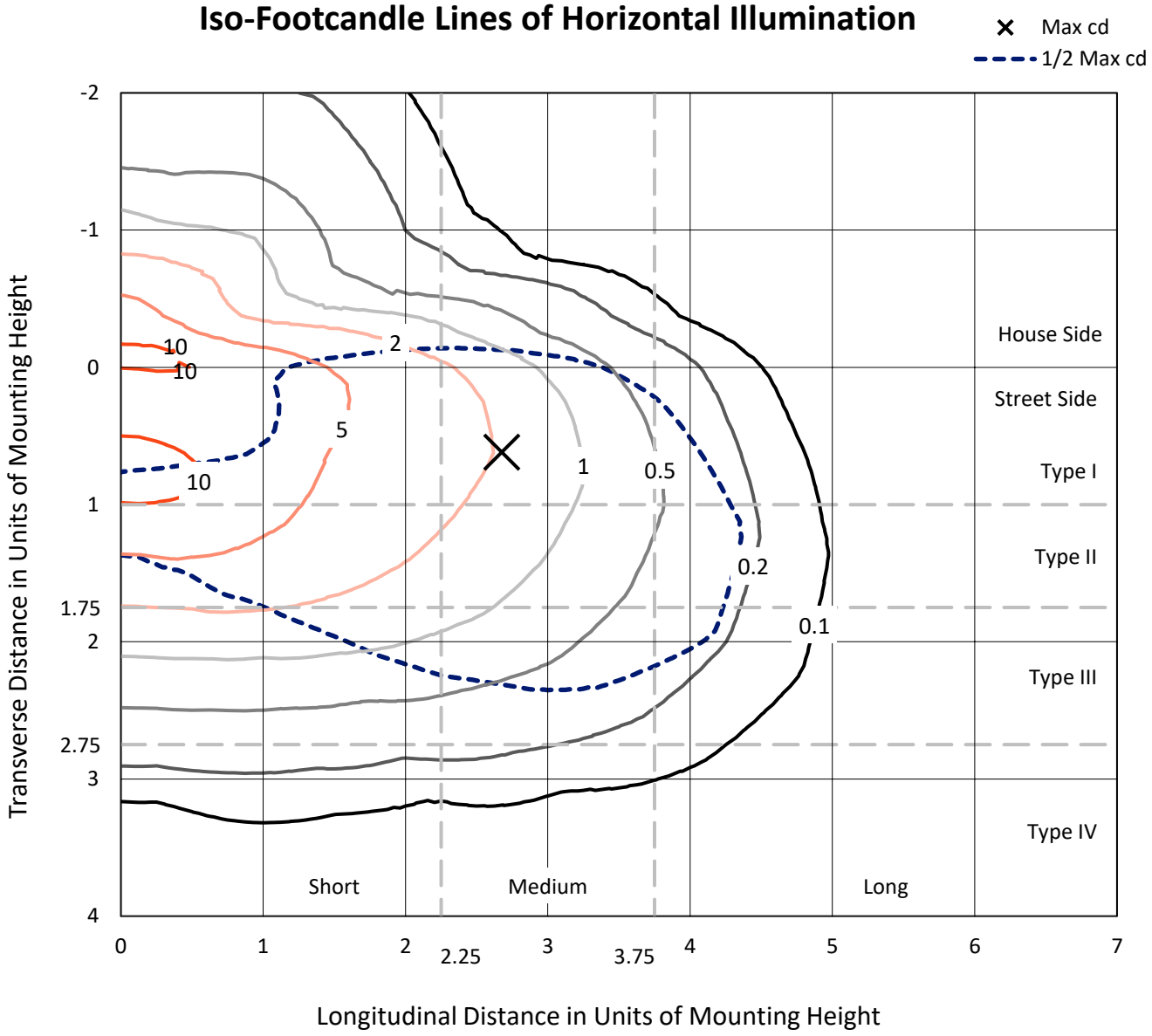
Test Method:	LM-79-08
Report Number:	P954739
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB7D-927-U-T3R
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	45222 lumens
Efficiency:	N/A
Efficacy:	88.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B4 - U0 - G5
Input Watts (W):	512.8
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

REPORT NUMBER: P954739
CATALOG NUMBER: GALN-SB7D-927-U-T3R

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12 fc
Type III - Medium - N/A

REPORT NUMBER: P954739
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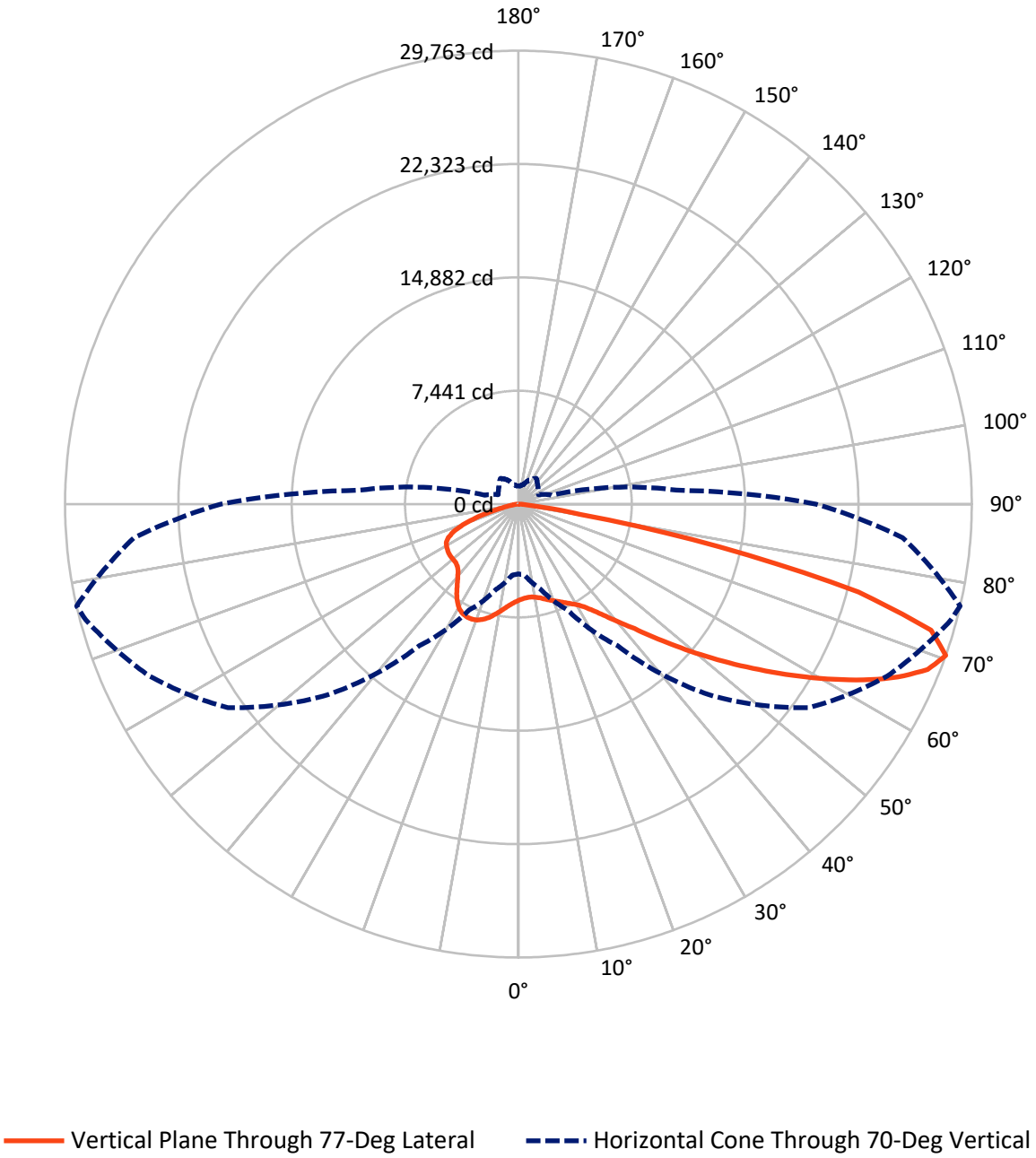
Luminous Intensity Polar Plot



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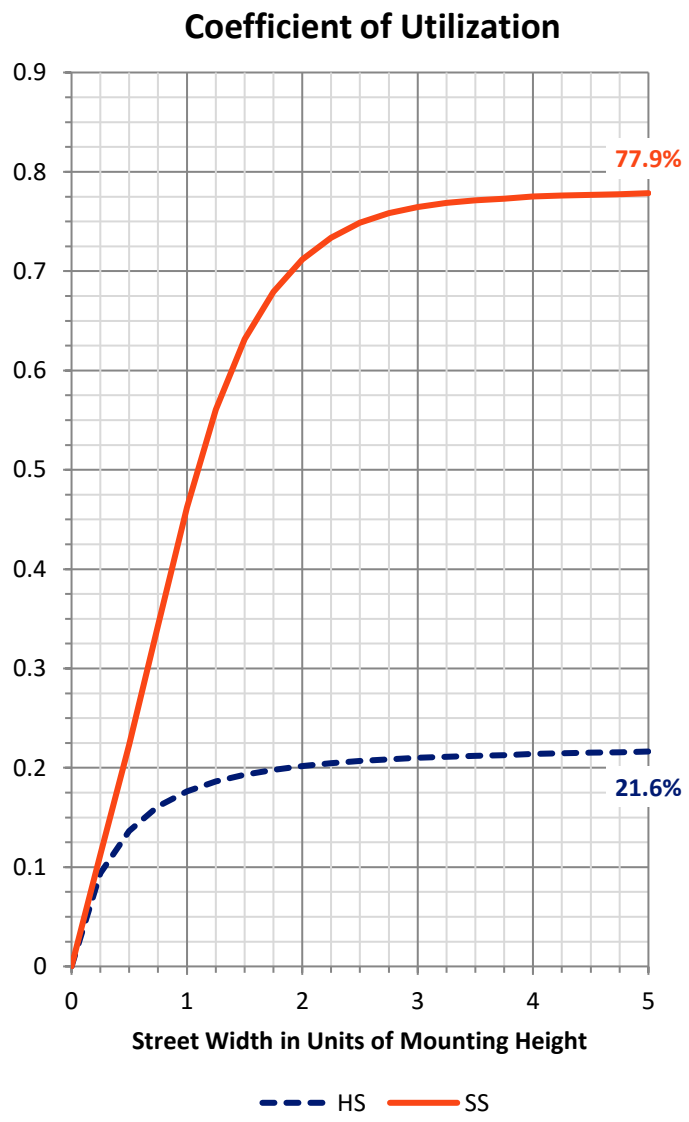
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9902.9	0.0	9902.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	35319.1	0.0	35319.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	45222.0	0.0	45222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.7	1.3
10°-20°	1736.6	3.8
20°-30°	2969.8	6.6
30°-40°	4775.7	10.6
40°-50°	7456.1	16.5
50°-60°	9959.5	22.0
60°-70°	10615.3	23.5
70°-80°	6534.7	14.5
80°-90°	572.6	1.3
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°	45222.0	100.0
0°-180°	45222.0	100.0



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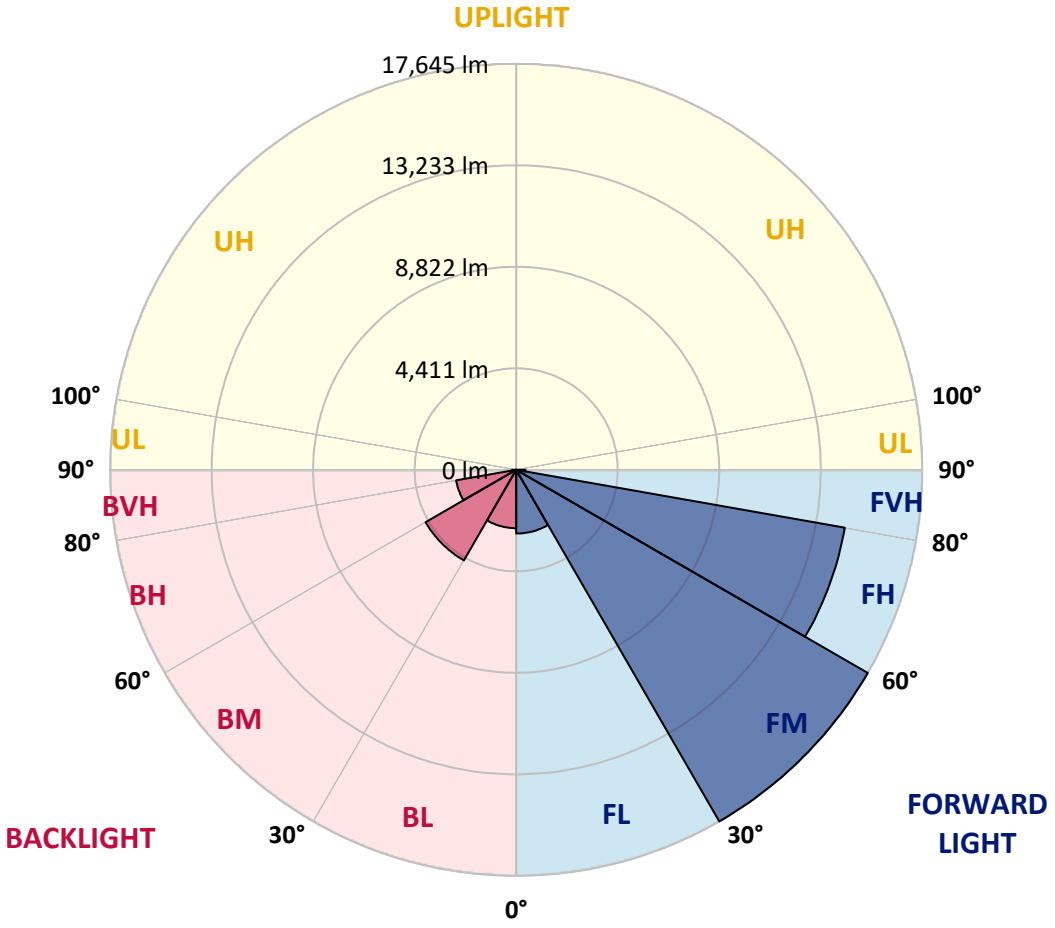
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2770.6	6.1			
FM	(30°-60°)	17644.6	39.0			
FH	(60°-80°)	14503.5	32.1			G5
FVH	(80°-90°)	400.4	0.9			G3/500
BL	(0°-30°)	2537.4	5.6	B4/5000		
BM	(30°-60°)	4546.6	10.1	B3/5000		
BH	(60°-80°)	2646.6	5.9	B4/5000		G4/5000
BVH	(80°-90°)	172.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6308.9	6308.9	6308.9	6308.9	6308.9	6308.9	6308.9	6308.9	6308.9	*6308.9*
2.5°	5815.6	5813.2	5843.4	5852.6	5908.2	5947.6	6021.7	6100.4	6202.3	*6213.9*
5°	5479.7	5479.7	5514.5	5551.5	5623.3	5702.1	5815.6	5952.2	6128.2	*6156.0*
7.5°	5194.9	5213.4	5243.5	5315.3	5398.7	5512.2	5685.9	5880.4	6112.0	*6156.0*
10°	4965.6	4986.4	5023.5	5081.4	5206.4	5363.9	5590.9	5841.0	6151.4	*6220.9*
12.5°	4893.8	4914.6	4935.5	4979.5	5095.3	5280.6	5551.5	5859.6	6246.3	*6315.8*
15°	5060.5	5086.0	5069.8	5058.2	5118.4	5287.5	5570.1	5926.7	6364.5	*6464.1*
17.5°	5445.0	5454.3	5417.2	5308.4	5299.1	5389.4	5658.1	6019.4	6512.7	*6621.5*
20°	6065.7	6049.5	5973.1	5757.7	5634.9	5616.4	5808.6	6158.3	6665.6	*6781.4*
22.5°	6908.7	6890.2	6737.3	6396.9	6123.6	5942.9	6026.3	6339.0	6836.9	*6966.6*
25°	7960.2	7934.7	7710.1	7246.9	6823.0	6376.0	6322.8	6577.5	7047.7	*7168.1*
27.5°	9187.7	9166.9	8923.7	8312.3	7700.8	6969.0	6691.0	6857.8	7267.7	*7404.4*
30°	10507.9	10568.1	10137.3	9479.5	8706.0	7742.5	7186.7	7202.9	7552.6	*7675.3*
32.5°	12059.6	12163.8	11645.0	10811.3	9755.1	8583.2	7812.0	7684.6	7967.2	*8069.1*
35°	13597.4	13715.6	13284.8	12363.0	11147.1	9574.5	8465.1	8238.1	8518.4	*8629.5*
37.5°	14926.9	15084.3	14862.0	14060.7	12636.3	10769.6	9317.4	8888.9	9197.0	*9335.9*
40°	15976.0	16216.9	16200.7	15700.4	14391.8	12219.4	10399.0	9692.6	10040.0	*10190.6*
42.5°	16828.3	17036.8	17217.4	17191.9	16223.8	13866.1	11670.5	10737.1	11001.2	*11174.9*
45°	17416.6	17638.9	18028.0	18447.2	17986.3	15628.6	13127.3	11976.2	12217.1	*12478.8*
47.5°	17942.3	18194.8	18699.7	19364.4	19482.5	17398.1	14723.0	13419.1	13639.1	*13910.1*
50°	17988.7	18206.4	18989.2	19931.8	20545.6	19098.0	16436.9	15038.0	15244.1	*15533.7*
52.5°	16870.0	17212.8	18579.2	19915.6	21034.2	20520.1	18139.2	16721.8	16953.4	*17300.8*
55°	13094.9	13597.4	17377.2	19294.9	20860.5	21439.5	19758.1	18512.1	18808.5	*19172.1*
57.5°	11279.1	11499.1	13794.3	18164.7	20068.5	21678.1	21124.6	20320.9	20798.0	*21196.4*
60°	10137.3	10320.3	11677.5	16406.8	19026.2	21300.6	22180.7	22007.0	22831.5	*23306.3*
62.5°	8914.4	9088.1	10322.6	13699.4	17692.2	20672.9	22847.7	23563.3	24915.9	*25434.7*
65°	7700.8	7849.0	9032.5	11510.7	15996.9	20045.3	23192.8	24909.0	26845.2	*27382.5*
67.5°	6348.3	6471.0	7589.6	9711.1	13935.6	19186.0	23364.2	25967.4	28524.3	*28985.2*
70°	*4581.1*	*4676.1*	*5831.8*	*7680.0*	*11348.6*	*17708.4*	*23294.7*	*26717.8*	*29395.1*	*29763.4*
72.5°	2165.5	2251.2	3608.4	4986.4	8015.8	14831.9	21888.9	26122.6	28510.4	*28327.4*
75°	1155.7	1229.8	2072.9	2735.2	4233.7	10167.4	17912.2	22502.6	23940.9	*23051.5*
77.5°	782.8	840.7	1283.1	1642.1	1933.9	4826.6	11513.0	15580.0	14989.4	*13521.0*
80°	620.7	680.9	1051.5	1111.7	935.7	1744.0	4757.1	7212.1	5181.0	*4143.4*
82.5°	477.1	544.3	884.7	806.0	509.5	715.7	1385.0	2281.3	1327.1	*1009.8*
85°	291.8	363.6	694.8	514.2	287.2	326.6	470.2	634.6	405.3	*338.1*
87.5°	148.2	208.4	352.0	187.6	129.7	76.4	125.1	125.1	106.5	*92.6*
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°
6308.9	0°	6308.9	6308.9	6308.9	6308.9	6308.9	6308.9	6308.9	6308.9	6308.9	6308.9
6276.5	2.5°	6332.0	6378.4	6457.1	6531.2	6589.1	6644.7	6700.3	6730.4	6739.7	6776.7
6311.2	5°	6406.2	6491.8	6644.7	6788.3	6878.6	6934.2	6973.6	6996.7	7001.4	7013.0
6406.2	7.5°	6542.8	6679.4	6892.5	7036.1	7103.3	7098.6	7082.4	7024.5	7001.4	6980.5
6545.1	10°	6735.0	6915.7	7177.4	7277.0	7235.3	7124.1	6980.5	6811.5	6732.7	6656.3
6735.0	12.5°	6973.6	7202.9	7460.0	7455.3	7249.2	6964.3	6630.8	6371.4	6207.0	6088.9
6969.0	15°	7263.1	7527.1	7724.0	7566.5	7114.9	6603.0	6114.3	5776.2	5628.0	5498.3
7205.2	17.5°	7561.9	7844.4	7934.7	7531.7	6776.7	6068.0	5514.5	5248.1	5102.2	5032.7
7460.0	20°	7853.7	8133.9	8059.8	7332.6	6262.6	5461.2	4967.9	4822.0	4791.9	4808.1
7707.8	22.5°	8161.7	8411.8	8085.3	6948.1	5607.1	4840.5	4569.5	4574.2	4641.3	4690.0
7967.2	25°	8476.7	8645.8	8018.1	6392.3	4903.0	4384.3	4317.1	4391.2	4523.2	4618.2
8259.0	27.5°	8780.1	8854.2	7872.2	5704.4	4298.6	4057.7	4069.3	4222.1	4421.3	4553.3
8613.3	30°	9122.9	9039.5	7592.0	4930.8	3879.4	3777.5	3874.7	4053.1	4252.2	4370.4
9060.3	32.5°	9509.6	9199.3	7147.3	4215.2	3582.9	3552.8	3712.6	3828.4	3916.4	3951.2
9653.2	35°	9991.4	9423.9	6577.5	3712.6	3316.6	3388.4	3541.2	3483.3	3448.6	3430.0
10450.0	37.5°	10616.7	9727.4	5910.5	3386.0	3101.2	3270.2	3332.8	3152.1	3015.5	2948.3
11415.7	40°	11369.4	10172.0	5269.0	3133.6	2964.5	3168.3	3059.5	2841.8	2668.1	2573.1
12502.0	42.5°	12205.5	10637.6	4729.3	2943.7	2888.1	3085.0	2858.0	2598.6	2318.4	2288.2
13796.6	45°	13083.3	11117.0	4361.1	2797.8	2851.0	3013.2	2742.2	2323.0	2123.8	2246.6
15095.9	47.5°	13961.1	11557.0	4138.8	2688.9	2832.5	2932.1	2640.3	2170.1	2028.8	2207.2
16487.9	50°	14938.4	11950.7	4039.2	2610.2	2811.7	2899.7	2487.4	2130.8	1929.3	2047.4
17928.4	52.5°	15908.8	12256.5	3965.1	2531.4	2781.6	2874.2	2413.3	2084.4	1808.8	1815.8
19378.3	55°	16877.0	12455.6	3884.0	2427.2	2714.4	2818.6	2406.4	2033.5	1718.5	1686.1
20911.5	57.5°	17909.9	12569.1	3784.4	2311.4	2598.6	2677.3	2399.4	1994.1	1690.7	1637.4
22479.4	60°	18961.4	12735.9	3654.7	2170.1	2443.4	2508.3	2383.2	1980.2	1674.5	1584.2
23957.1	62.5°	19904.0	12793.8	3499.5	2035.8	2244.2	2341.5	2348.5	1968.6	1630.5	1475.3
25184.6	65°	20522.4	12543.6	3228.6	1882.9	2028.8	2170.1	2281.3	1929.3	1551.7	1396.6
25791.4	67.5°	20496.9	11830.3	2804.7	1686.1	1820.4	1980.2	2184.0	1862.1	1456.8	1299.3
25332.8	70°	*19542.7*	*10422.2*	*2267.4*	*1456.8*	*1591.1*	*1776.4*	*2059.0*	*1762.5*	*1343.3*	*1192.8*
22525.8	72.5°	16761.2	8157.1	1646.7	1188.1	1324.8	1565.6	1896.8	1642.1	1227.5	1097.8
16647.7	75°	11973.9	5162.4	1116.3	912.5	1030.6	1327.1	1695.3	1500.8	1121.0	1102.4
8337.7	77.5°	6116.7	2466.6	738.8	667.0	718.0	1046.8	1424.4	1341.0	1137.2	910.2
2371.6	80°	1989.5	910.2	465.5	453.9	477.1	697.1	1102.4	1100.1	861.6	618.4
574.4	82.5°	634.6	391.4	303.4	291.8	280.2	437.7	768.9	870.8	581.3	391.4
206.1	85°	252.4	233.9	178.3	164.4	118.1	206.1	403.0	579.0	433.1	282.6
53.3	87.5°	92.6	92.6	48.6	34.7	25.5	69.5	108.9	173.7	247.8	145.9
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°
6308.9
6797.6
7031.5
6985.2
6633.1
6061.1
5484.4
5053.6
4801.1
4701.6
4643.7
4585.8
4398.2
3969.7
3448.6
2964.5
2580.1
2318.4
2311.4
2290.6
2135.4
1864.4
1709.2
1644.4
1591.1
1475.3
1396.6
1306.2
1206.7
1090.9
1039.9
810.6
546.6
389.1
289.5
143.6
0.0

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