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

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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: P944635

Luminaire Tested: **GALN-SB9C-935-U-T2**

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:	P944635
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9C-935-U-T2
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 90 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	47018 lumens
Efficiency:	N/A
Efficacy:	104.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B4 - U0 - G5
Input Watts (W):	449.8
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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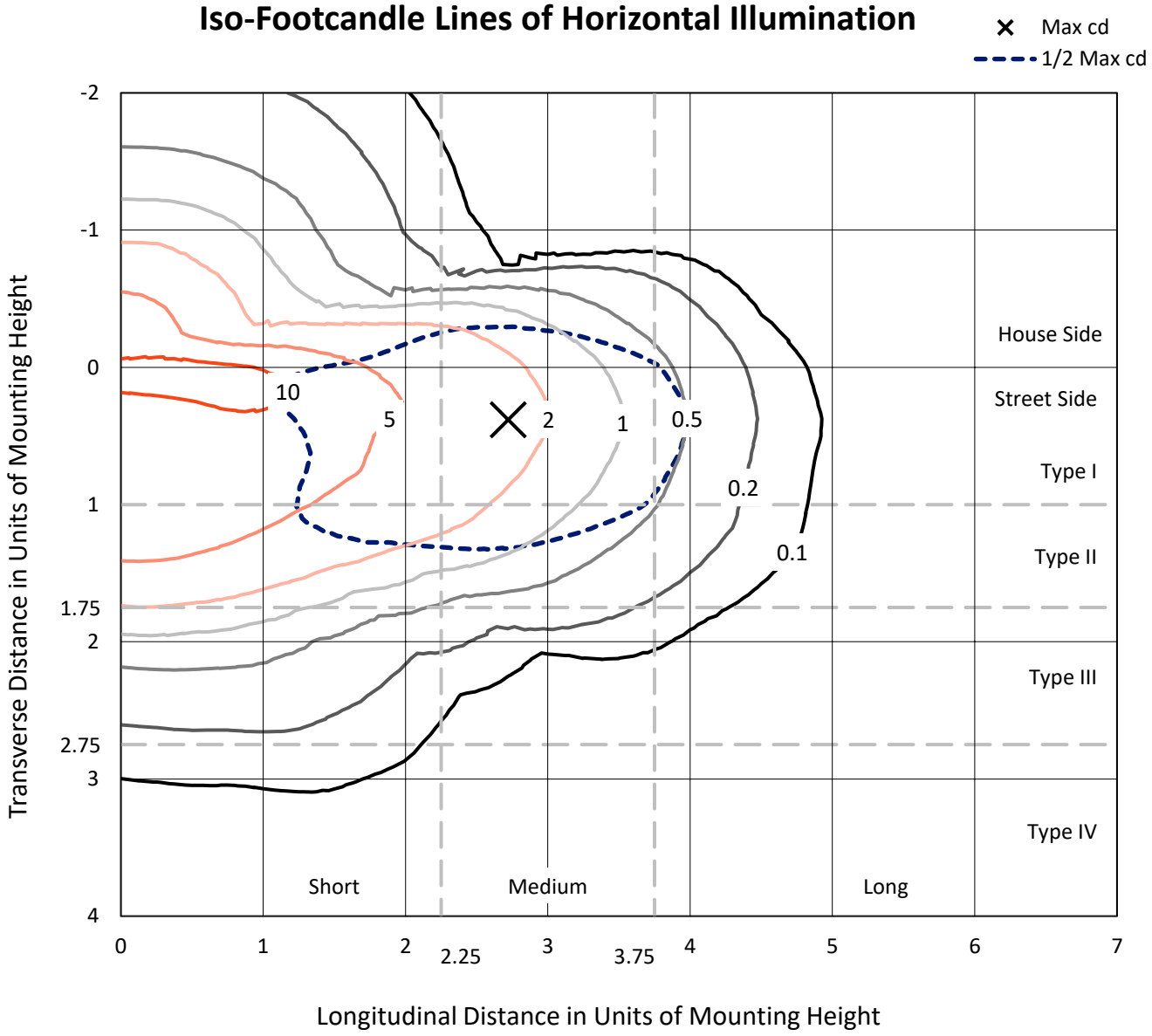
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
Type II - Medium - N/A

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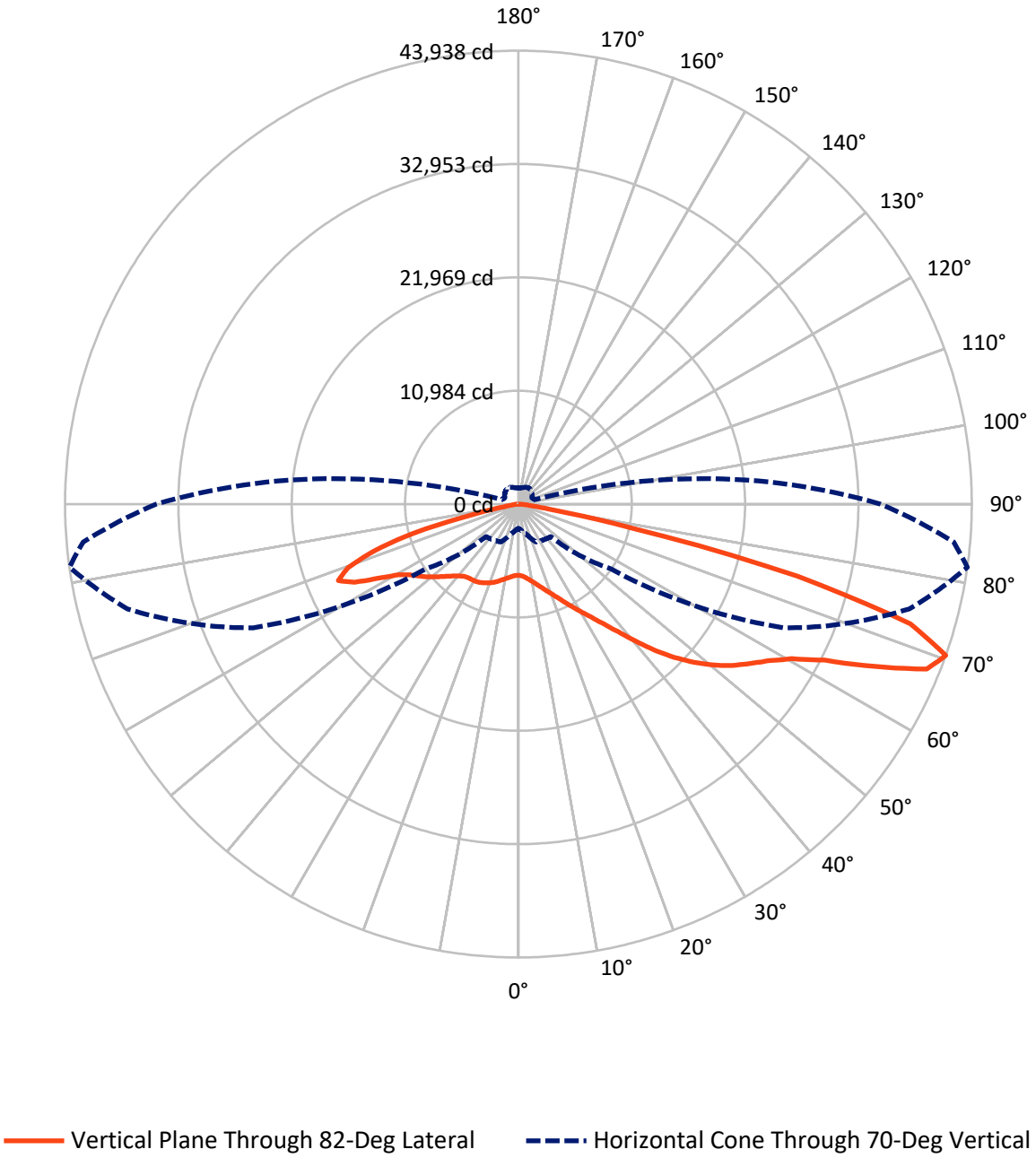
Luminous Intensity Polar Plot



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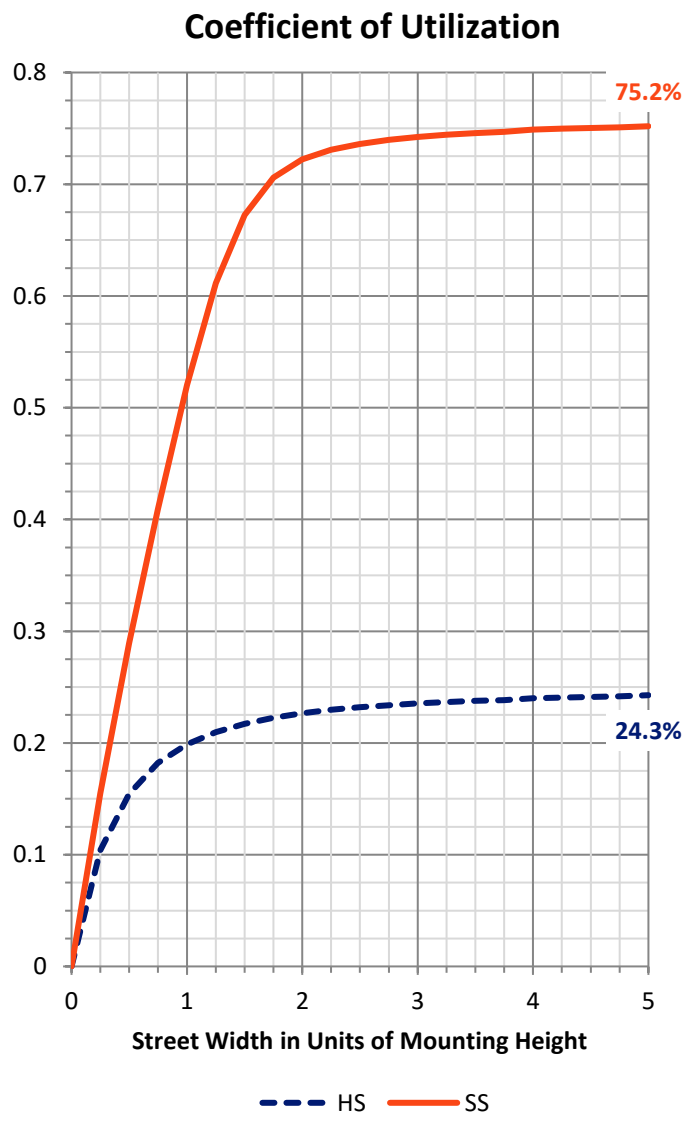
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11591.1	0.0	11591.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	35426.9	0.0	35426.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	47018.0	0.0	47018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.9	1.4
10°-20°	1870.0	4.0
20°-30°	3128.3	6.7
30°-40°	4887.2	10.4
40°-50°	7783.4	16.6
50°-60°	10831.5	23.0
60°-70°	11330.2	24.1
70°-80°	5921.8	12.6
80°-90°	614.9	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°	47018.0	100.0
0°-180°	47018.0	100.0



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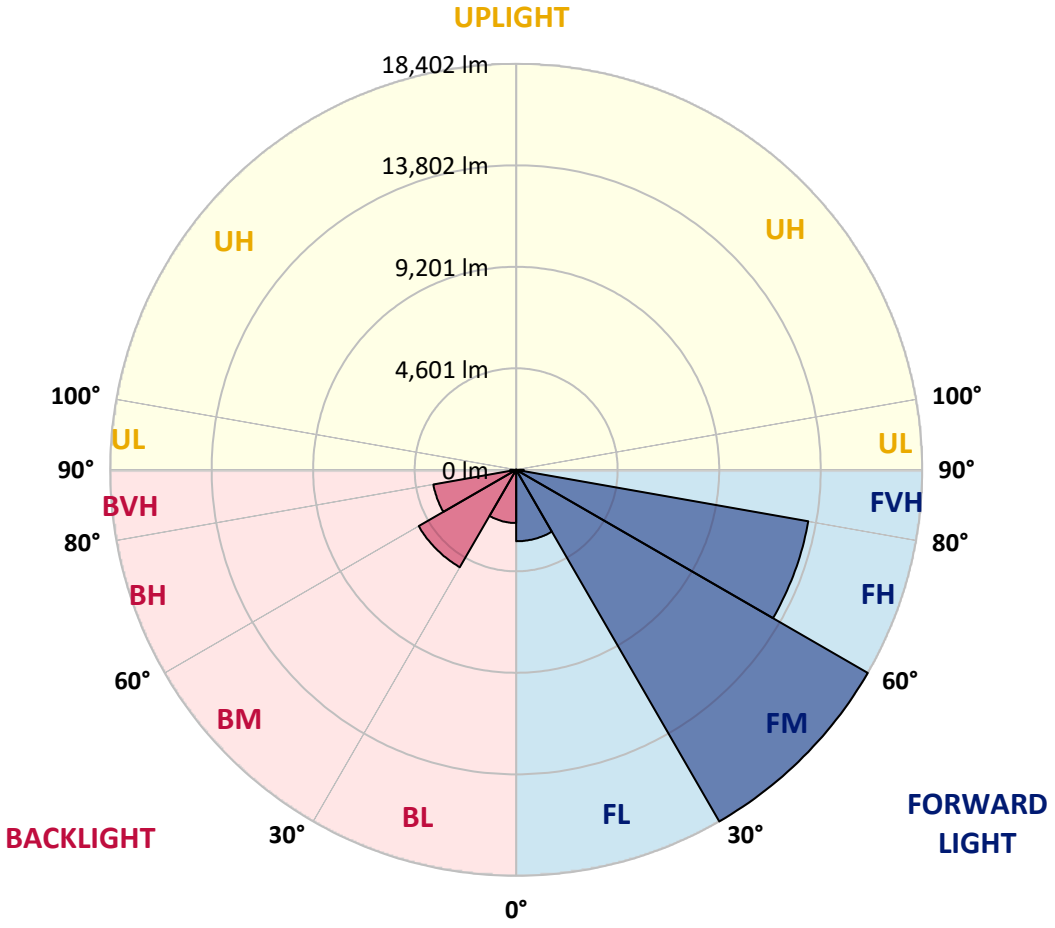
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3237.7	6.9			
FM	(30°-60°)	18402.4	39.1			
FH	(60°-80°)	13442.6	28.6			G5
FVH	(80°-90°)	344.2	0.7			G3/500
BL	(0°-30°)	2411.4	5.1	B3/2500		
BM	(30°-60°)	5099.6	10.8	B4/8500		
BH	(60°-80°)	3809.4	8.1	B4/5000		G4/5000
BVH	(80°-90°)	270.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	*6893.4*
2.5°	7058.1	7098.0	7085.5	7073.1	7073.1	7055.6	7053.1	7028.2	7008.2	*6975.8*
5°	7147.9	7190.3	7185.3	7195.3	7227.7	7235.2	7242.7	7227.7	7187.8	*7147.9*
7.5°	7068.1	7115.5	7130.4	7190.3	7290.1	7379.9	7447.3	7474.7	7437.3	*7379.9*
10°	6798.6	6851.0	6903.4	7045.6	7222.8	7434.8	7614.5	7721.7	7714.3	*7659.4*
12.5°	6252.2	6307.1	6419.4	6696.3	7020.7	7394.9	7729.2	7953.8	8031.1	*7991.2*
15°	5815.6	5863.0	5947.9	6232.3	6653.9	7222.8	7771.6	8208.2	8405.3	*8382.9*
17.5°	5803.2	5823.1	5875.5	6010.2	6334.6	6953.3	7726.7	8457.7	8834.5	*8832.0*
20°	6022.7	6030.2	6060.1	6087.6	6272.2	6748.7	7612.0	8664.8	9316.0	*9316.0*
22.5°	6327.1	6322.1	6352.0	6327.1	6416.9	6731.3	7539.6	8846.9	9852.4	*9892.3*
25°	6783.7	6758.7	6751.2	6693.8	6711.3	6893.4	7619.4	9054.0	10488.6	*10570.9*
27.5°	7392.4	7352.5	7325.0	7192.8	7147.9	7227.7	7863.9	9303.5	11197.1	*11339.4*
30°	8185.8	8113.4	8073.5	7844.0	7681.8	7694.3	8233.2	9635.3	11938.1	*12167.7*
32.5°	9268.6	9156.3	9049.0	8672.3	8375.4	8278.1	8709.7	10094.4	12741.5	*13108.2*
35°	10481.1	10391.3	10276.5	9695.2	9238.6	9014.1	9353.4	10735.6	13682.1	*14263.4*
37.5°	11648.7	11571.4	11626.3	10842.9	10254.1	9927.2	10196.7	11596.3	14842.2	*15700.4*
40°	12856.3	12796.4	12803.9	12055.4	11369.3	11002.5	11219.6	12676.6	16172.0	*17409.5*
42.5°	14168.6	14123.7	13974.0	13310.3	12539.4	12197.6	12397.2	13924.1	17599.1	*19355.5*
45°	15638.1	15610.6	15470.9	14710.0	13826.8	13442.6	13712.0	15301.3	19033.6	*21186.7*
47.5°	16908.0	16930.4	16913.0	16271.8	15356.1	14792.3	15114.1	16738.3	20368.4	*22908.2*
50°	17519.2	17636.5	17808.6	17609.1	17040.2	16466.4	16528.8	18125.5	21640.8	*24522.4*
52.5°	17199.9	17421.9	17891.0	18210.3	18429.9	18310.1	18143.0	19502.7	22838.4	*25979.5*
55°	16009.8	16321.7	17100.1	17871.0	18991.2	19862.0	20081.5	21029.6	24006.0	*27261.8*
57.5°	13841.7	14348.2	15046.8	16606.1	18492.2	20612.9	22341.9	23147.7	25243.5	*28631.5*
60°	10124.3	10802.9	11671.2	13991.4	16745.8	20211.2	24265.5	26401.1	27002.4	*30405.4*
62.5°	6479.3	6898.4	7696.8	9882.3	13048.4	18152.9	24854.3	30467.8	29983.8	*33314.5*
65°	4435.9	4705.4	5436.4	6663.9	8435.3	13512.4	23277.5	33516.6	34719.1	*37925.1*
67.5°	3223.4	3428.0	4051.7	5127.0	5496.3	7996.2	18063.1	33376.9	39322.2	*42675.4*
70°	*2350.2*	*2494.9*	*3018.8*	*4051.7*	*4228.9*	*4448.4*	*10942.7*	*28372.1*	*39222.4*	*43937.8*
72.5°	1741.4	1841.2	2193.0	3143.6	3423.0	3003.9	5416.4	20620.4	33703.7	*39741.4*
75°	1259.9	1334.8	1594.2	2405.1	2739.4	2287.8	2702.0	12050.4	23509.5	*27955.4*
77.5°	963.0	1020.4	1190.1	1761.4	2193.0	1716.5	1676.6	5543.7	11147.2	*11202.1*
80°	773.4	810.8	903.2	1240.0	1681.6	1284.9	1092.8	2237.9	3522.8	*2981.4*
82.5°	568.8	631.2	763.4	870.7	1202.5	885.7	666.1	1130.2	1339.8	*1152.6*
85°	324.3	366.8	461.6	623.7	768.4	541.4	381.7	501.5	623.7	*511.5*
87.5°	114.8	149.7	162.2	244.5	334.3	224.5	147.2	144.7	204.6	*152.2*
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°
6893.4	0°	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4	6893.4
6968.3	2.5°	6943.3	6930.9	6881.0	6813.6	6743.7	6676.4	6653.9	6606.5	6574.1	6556.6
7130.4	5°	7083.0	7043.1	6925.9	6776.2	6619.0	6449.3	6329.6	6219.8	6140.0	6065.1
7352.5	7.5°	7282.6	7212.8	7010.7	6748.7	6469.3	6187.4	5977.8	5818.1	5710.8	5641.0
7612.0	10°	7514.7	7407.4	7098.0	6706.3	6274.7	5870.5	5623.5	5486.3	5418.9	5381.5
7908.9	12.5°	7781.6	7629.4	7187.8	6609.0	5977.8	5516.2	5346.6	5306.7	5309.2	5311.7
8283.1	15°	8110.9	7898.9	7260.2	6396.9	5591.1	5244.3	5214.4	5279.2	5346.6	5379.0
8707.2	17.5°	8482.7	8183.3	7272.7	6047.7	5211.9	5069.7	5164.5	5304.2	5406.5	5451.4
9181.3	20°	8881.9	8472.7	7182.8	5553.7	4900.0	4927.4	5097.1	5276.7	5389.0	5446.4
9722.7	22.5°	9338.4	8782.1	6968.3	5034.7	4645.5	4772.8	4972.3	5147.0	5264.3	5321.6
10358.9	25°	9859.9	9128.9	6631.5	4598.1	4426.0	4598.1	4797.7	4942.4	5037.2	5089.6
11069.9	27.5°	10438.7	9490.6	6182.4	4251.3	4233.9	4418.5	4583.1	4695.4	4745.3	4785.2
11825.9	30°	11020.0	9820.0	5638.5	3989.4	4066.7	4241.3	4358.6	4408.5	4423.5	4431.0
12669.1	32.5°	11648.7	10104.4	5067.2	3772.3	3907.0	4069.2	4139.0	4161.5	4091.6	4044.2
13692.0	35°	12409.7	10408.8	4508.3	3600.2	3749.8	3889.6	3912.0	3892.1	3809.7	3712.4
14974.4	37.5°	13350.2	10788.0	4061.7	3477.9	3602.6	3695.0	3667.5	3662.5	3670.0	3555.2
16516.3	40°	14502.9	11282.0	3734.9	3383.1	3482.9	3502.8	3425.5	3467.9	3505.3	3330.7
18207.8	42.5°	15782.8	11878.2	3527.8	3318.2	3383.1	3335.7	3215.9	3263.3	3258.3	3028.8
19906.9	45°	17087.6	12526.9	3455.4	3270.8	3290.8	3196.0	3063.7	3076.2	2971.4	2764.4
21536.0	47.5°	18385.0	13223.0	3500.4	3230.9	3176.0	3068.7	2966.4	2911.6	2756.9	2602.2
23097.8	50°	19657.4	13954.0	3665.0	3151.1	3018.8	2956.5	2881.6	2784.3	2619.7	2487.4
24574.8	52.5°	20837.5	14690.0	3849.6	3018.8	2821.7	2859.2	2811.8	2699.5	2537.3	2402.6
25972.0	55°	21955.2	15426.0	3922.0	2836.7	2637.1	2774.3	2746.9	2539.8	2345.2	2235.4
27434.0	57.5°	23172.7	16311.7	3842.2	2604.7	2487.4	2677.0	2572.2	2342.7	2230.4	2148.1
29337.6	60°	24859.2	17701.4	3670.0	2317.8	2345.2	2532.3	2352.7	2257.9	2135.6	2043.3
32191.8	62.5°	27661.0	20293.6	3393.1	2033.3	2178.1	2317.8	2247.9	2153.1	2028.4	1938.5
37071.8	65°	31802.6	23896.2	2871.6	1811.3	1990.9	2108.2	2135.6	2040.8	1911.1	1816.3
41348.1	67.5°	35295.4	26156.6	2173.1	1626.7	1798.8	1938.5	2015.9	1923.6	1786.4	1694.0
42348.5	70°	*35103.3*	*24515.0*	*1659.1*	*1444.6*	*1629.2*	*1771.4*	*1871.2*	*1798.8*	*1651.6*	*1564.3*
38466.5	72.5°	31178.8	20508.1	1342.3	1259.9	1457.0	1596.7	1716.5	1661.6	1511.9	1427.1
28180.0	75°	22905.7	14557.8	1072.8	1072.8	1242.5	1414.6	1546.8	1511.9	1374.7	1314.8
11830.8	77.5°	9655.3	6107.5	840.8	890.7	1032.9	1215.0	1379.7	1392.2	1272.4	1347.2
3128.6	80°	2567.3	1684.1	641.2	701.1	810.8	1003.0	1200.1	1195.1	1065.3	995.5
1162.6	82.5°	978.0	663.6	456.6	494.0	586.3	768.4	950.6	980.5	850.8	736.0
456.6	85°	376.7	284.4	281.9	296.9	341.8	509.0	718.5	743.5	641.2	543.9
127.2	87.5°	97.3	84.8	104.8	99.8	157.2	271.9	411.7	426.6	391.7	227.0
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°
6893.4
6576.6
6095.1
5656.0
5391.5
5316.6
5376.5
5461.4
5461.4
5336.6
5104.6
4800.2
4448.4
4059.2
3717.4
3562.7
3335.7
3026.3
2771.8
2602.2
2477.4
2405.1
2225.5
2140.6
2038.3
1938.5
1821.3
1696.5
1571.8
1427.1
1297.4
1222.5
925.6
736.0
561.4
324.3
0.0

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