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: P957150

Luminaire Tested: **GALN-SB9C-830-U-T2R**

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:	P957150
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9C-830-U-T2R
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	62430 lumens
Efficiency:	N/A
Efficacy:	138.8 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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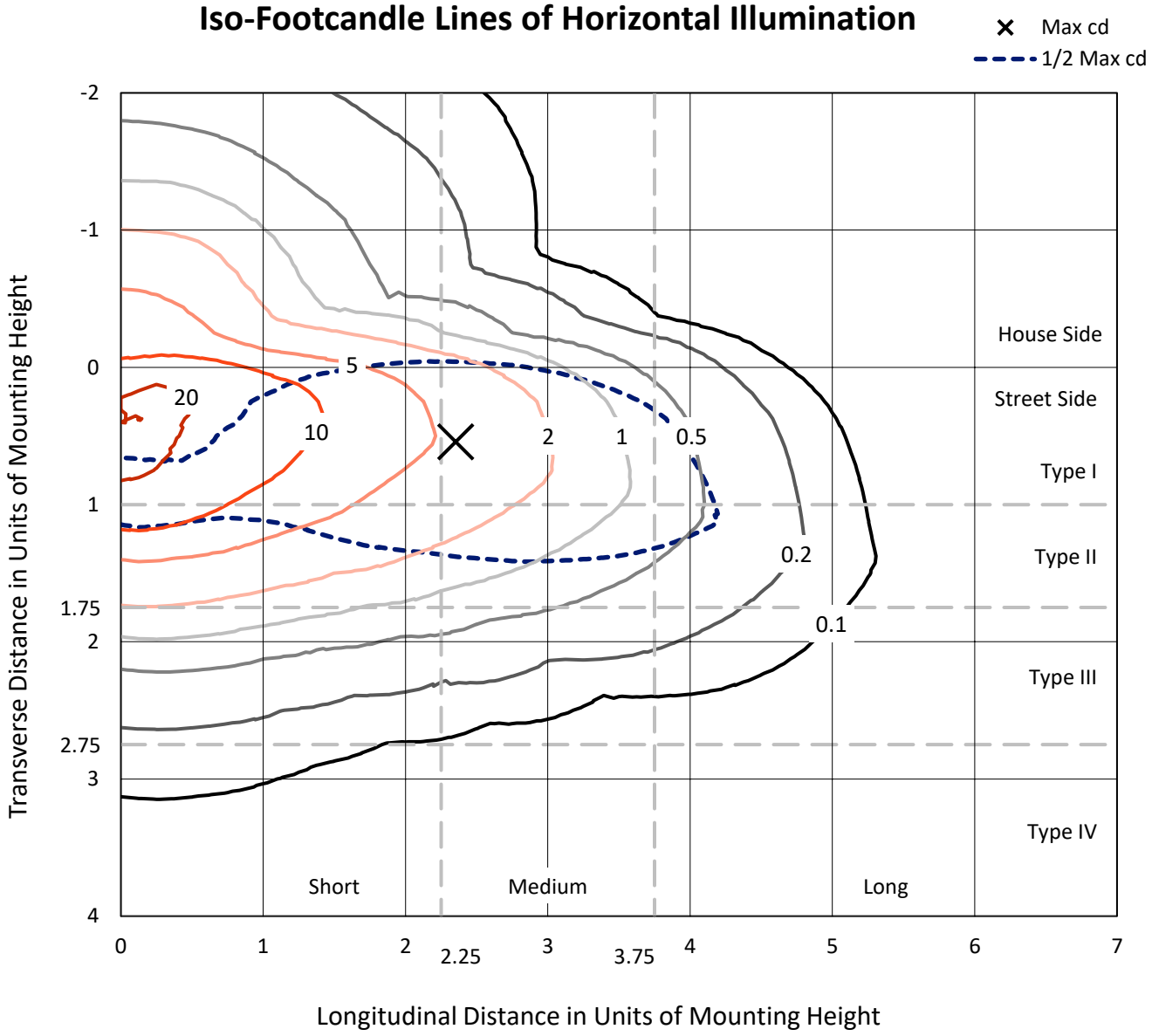
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc
Type II - Medium - N/A

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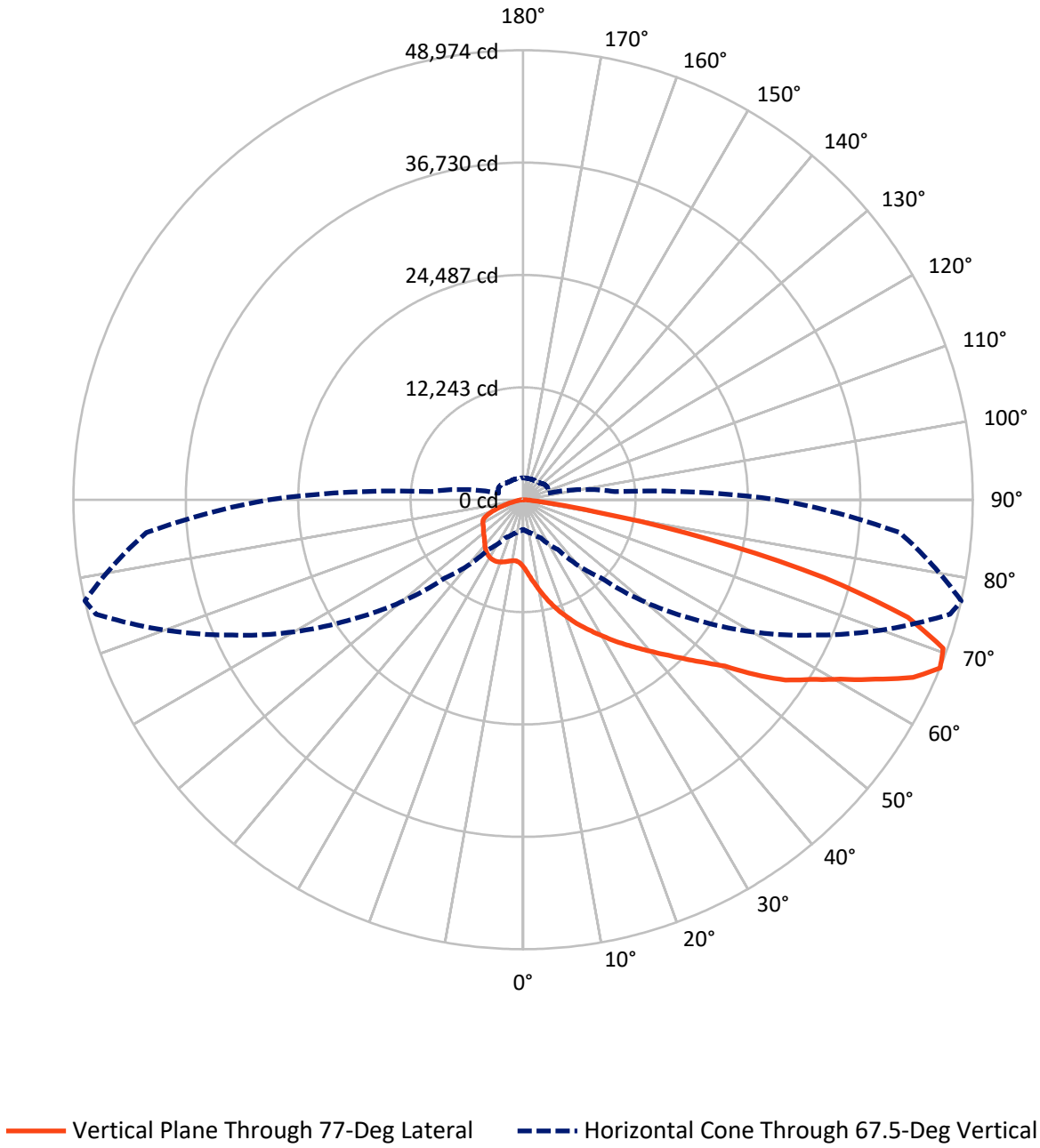
Luminous Intensity Polar Plot



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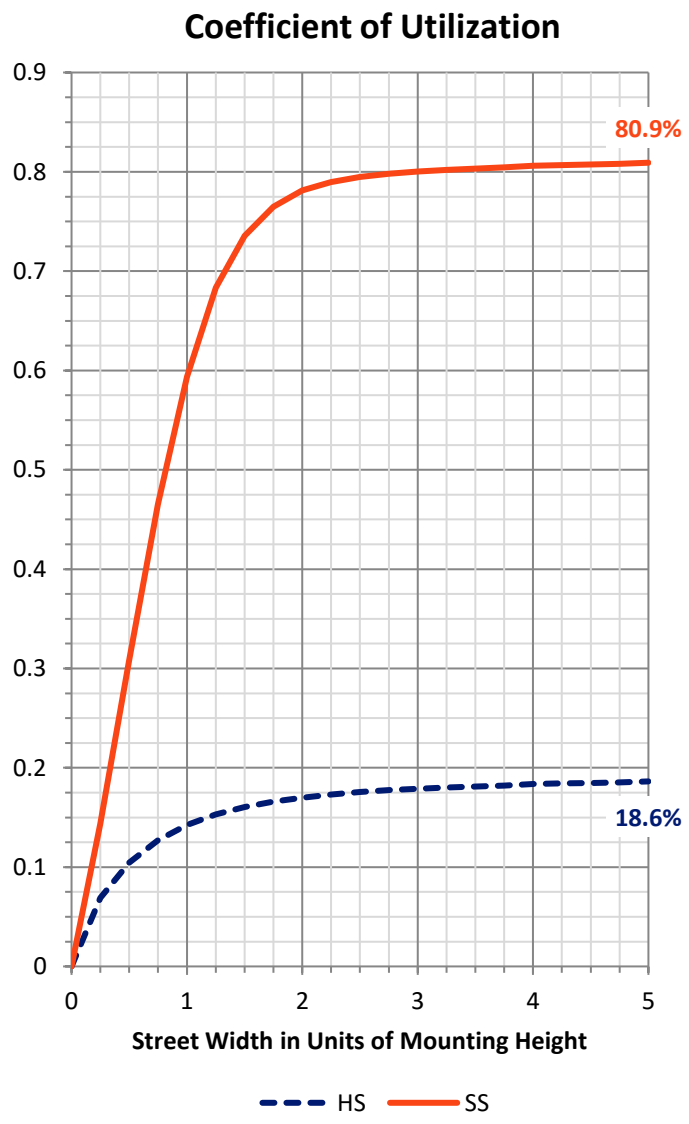
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11809.3	0.0	11809.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	50620.7	0.0	50620.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	62430.0	0.0	62430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.1	1.3
10°-20°	2820.7	4.5
20°-30°	5325.7	8.5
30°-40°	8579.7	13.7
40°-50°	11735.4	18.8
50°-60°	13237.7	21.2
60°-70°	12355.7	19.8
70°-80°	6773.0	10.8
80°-90°	817.0	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°	62430.0	100.0
0°-180°	62430.0	100.0



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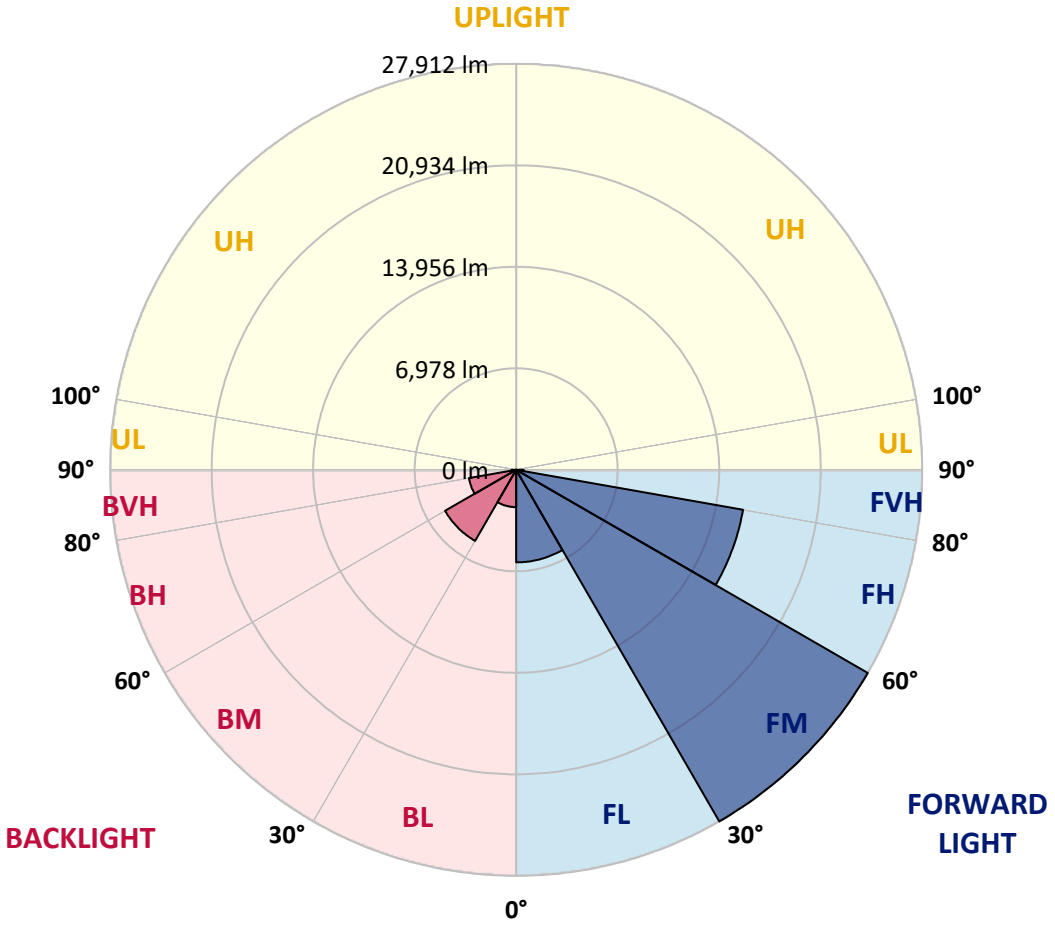
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	6364.0	10.2			
FM	(30°-60°)	27911.8	44.7			
FH	(60°-80°)	15834.1	25.4			G5
FVH	(80°-90°)	510.9	0.8			G4/750
BL	(0°-30°)	2567.6	4.1	B4/5000		
BM	(30°-60°)	5641.0	9.0	B4/8500		
BH	(60°-80°)	3294.6	5.3	B4/5000		G4/5000
BVH	(80°-90°)	306.1	0.5			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°	77°
0°	7325.0	7325.0	7325.0	7325.0	7325.0	7325.0	7325.0	7325.0	7325.0	*7325.0*
2.5°	9171.5	9236.0	9155.4	9155.4	8884.7	8742.9	8472.2	8266.0	7895.4	*7830.9*
5°	10840.8	10921.4	10808.6	10760.3	10441.2	10148.0	9693.6	9245.7	8585.0	*8517.3*
7.5°	12133.1	12236.2	12136.3	12084.8	11801.2	11472.5	10940.7	10315.6	9384.2	*9252.1*
10°	13186.9	13203.0	13170.8	13190.1	12967.8	12697.1	12152.4	11424.1	10260.8	*10080.3*
12.5°	13783.1	13857.2	13921.6	14037.7	13999.0	13831.4	13341.6	12471.5	11188.9	*10956.9*
15°	14063.4	14192.3	14337.4	14604.8	14820.8	14862.6	14488.8	13596.2	12133.1	*11852.7*
17.5°	14163.3	14285.8	14514.6	14901.3	15365.4	15678.0	15510.4	14688.6	13067.7	*12745.4*
20°	14669.3	14704.7	14843.3	15210.7	15713.4	16232.3	16357.9	15739.2	13992.5	*13628.4*
22.5°	15752.1	15681.2	15719.9	15887.4	16248.4	16751.1	17037.9	16667.3	14943.2	*14524.3*
25°	17540.6	17334.4	17128.1	16934.8	17118.5	17402.1	17727.5	17595.4	15939.0	*15407.3*
27.5°	19799.7	19548.3	19093.9	18459.1	18236.7	18336.6	18481.6	18455.9	16860.7	*16322.5*
30°	22023.3	21730.0	21188.6	20270.2	19683.7	19419.4	19309.8	19235.7	17862.9	*17289.3*
32.5°	23798.9	23566.9	23035.2	22007.2	21156.4	20705.2	20341.1	20076.8	18910.2	*18336.6*
35°	25352.2	25136.3	24527.2	23405.8	22480.9	22000.7	21523.8	20959.8	19999.5	*19419.4*
37.5°	26770.2	26554.3	25719.6	24553.0	23621.7	23289.8	22864.4	21907.3	21091.9	*20544.1*
40°	27666.1	27617.7	26837.8	25516.6	24549.8	24385.4	24243.6	23006.2	22303.6	*21794.5*
42.5°	27894.9	28001.2	27382.5	26296.4	25374.8	25242.7	25574.6	24250.1	23663.6	*23177.0*
45°	27343.8	27649.9	27243.9	26505.9	25961.3	25890.4	26754.1	25610.0	25168.5	*24723.8*
47.5°	25948.4	26467.2	26299.7	26196.5	26119.2	26425.4	27791.7	27053.8	26873.3	*26486.6*
50°	23131.9	24114.7	24408.0	25059.0	25806.6	26841.1	28736.0	28629.6	28864.9	*28474.9*
52.5°	18262.5	19616.0	21317.5	22948.2	24846.3	26702.5	29773.6	30891.9	31884.4	*31671.8*
55°	15075.3	15684.4	16992.8	19983.4	22983.6	26119.2	30240.9	32719.1	34881.5	*34691.3*
57.5°	12626.2	13170.8	13976.4	16474.0	20167.1	24794.7	30530.9	33834.1	36934.3	*36914.9*
60°	9999.7	10576.6	11401.6	13170.8	16876.8	22506.7	30466.5	35103.8	39554.2	*39715.4*
62.5°	7034.9	7669.8	8585.0	10235.0	13515.6	19541.9	29151.7	36022.3	42638.3	*43076.5*
65°	4624.4	5043.4	5733.0	7157.4	10070.6	15729.5	26641.3	36141.5	45938.2	*46679.4*
67.5°	*3241.9*	*3403.1*	*3809.1*	*4582.5*	*6638.6*	*12062.2*	*22642.0*	*34907.2*	*48139.3*	*48973.9*
70°	2529.7	2610.3	2816.6	3125.9	4170.0	8111.3	17350.5	31697.5	47668.8	*48538.9*
72.5°	2184.9	2262.3	2339.6	2378.3	2797.2	5007.9	11752.8	26502.7	43237.7	*43827.4*
75°	1981.9	2001.2	2065.7	2052.8	2133.4	3248.4	6783.6	19309.8	34114.5	*33911.5*
77.5°	1666.1	1691.9	1798.2	1782.1	1894.9	2220.4	3522.3	12461.8	22116.7	*20737.5*
80°	1411.5	1424.4	1540.4	1521.1	1646.8	1608.1	1798.2	6351.8	9381.0	*7946.9*
82.5°	489.8	605.8	1176.3	1211.7	1256.8	973.2	1037.7	2591.0	2864.9	*2194.6*
85°	238.5	254.6	599.4	850.8	847.5	489.8	505.9	924.9	902.3	*709.0*
87.5°	38.7	48.3	70.9	331.9	264.3	128.9	174.0	180.5	186.9	*161.1*
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°
7325.0	0°	7325.0	7325.0	7325.0	7325.0	7325.0	7325.0	7325.0	7325.0	7325.0	7325.0
7586.0	2.5°	7405.5	7244.4	6906.0	6593.4	6348.5	6113.3	5981.2	5868.4	5803.9	5791.0
7940.5	5°	7605.3	7273.4	6657.9	6139.1	5800.7	5549.3	5417.2	5333.4	5291.5	5265.7
8417.4	7.5°	7892.2	7405.5	6529.0	5939.3	5584.8	5404.3	5336.6	5323.7	5320.5	5323.7
8994.3	10°	8288.5	7621.5	6516.1	5890.9	5594.4	5494.5	5491.3	5494.5	5507.4	5510.7
9622.7	12.5°	8717.1	7843.8	6567.7	5932.8	5716.9	5662.1	5652.4	5649.2	5658.9	5665.3
10257.5	15°	9184.4	8137.1	6654.7	6023.0	5852.2	5794.2	5784.6	5765.2	5762.0	5758.8
10924.6	17.5°	9664.6	8427.1	6751.4	6119.7	5939.3	5858.7	5823.2	5778.1	5742.7	5733.0
11614.3	20°	10151.2	8713.9	6819.0	6168.1	5945.7	5832.9	5762.0	5684.7	5623.4	5588.0
12310.3	22.5°	10670.0	9013.6	6860.9	6155.2	5887.7	5733.0	5604.1	5513.9	5420.4	5359.2
13012.9	25°	11176.0	9274.7	6857.7	6087.5	5774.9	5578.3	5414.0	5298.0	5169.1	5104.6
13738.0	27.5°	11662.6	9509.9	6777.1	5968.3	5613.8	5394.6	5198.1	5059.5	4933.8	4872.6
14469.5	30°	12165.3	9706.5	6651.5	5794.2	5423.6	5181.9	4966.0	4846.8	4734.0	4676.0
15242.9	32.5°	12664.8	9886.9	6474.2	5578.3	5204.5	4972.5	4759.8	4650.2	4582.5	4582.5
16074.3	35°	13193.3	10012.6	6239.0	5327.0	4972.5	4750.1	4582.5	4518.1	4511.6	4473.0
16954.1	37.5°	13750.9	10093.2	5952.1	5069.2	4743.7	4534.2	4482.6	4405.3	4340.8	4257.1
17920.9	40°	14337.4	10173.8	5607.3	4801.7	4502.0	4386.0	4363.4	4260.3	4076.6	3870.3
19016.6	42.5°	15049.6	10228.5	5249.6	4534.2	4247.4	4208.7	4240.9	4063.7	3770.4	3615.8
20337.9	45°	15874.5	10318.8	4920.9	4270.0	3986.4	3986.4	4121.7	3889.7	3648.0	3551.3
21846.0	47.5°	16944.5	10528.2	4614.8	3979.9	3744.7	3809.1	3857.5	3680.2	3544.9	3425.6
23682.9	50°	18491.3	11031.0	4299.0	3686.7	3561.0	3689.9	3622.2	3519.1	3361.2	3264.5
26602.6	52.5°	20412.0	11327.5	4018.6	3422.4	3403.1	3532.0	3435.3	3338.6	3219.4	3090.5
28816.5	55°	21720.3	11382.2	3783.3	3229.0	3296.7	3283.8	3248.4	3161.4	3096.9	2926.1
31001.4	57.5°	23183.4	11491.8	3590.0	3113.0	3229.0	3087.3	3074.4	3000.2	2916.5	2800.4
33666.5	60°	24933.3	11662.6	3422.4	3067.9	3171.0	2958.4	2893.9	2864.9	2781.1	2723.1
36873.0	62.5°	26841.1	11817.3	3251.6	3074.4	3103.4	2832.7	2736.0	2726.3	2674.8	2655.4
39882.9	65°	28143.0	11395.1	3038.9	3067.9	2997.0	2703.8	2581.3	2578.1	2536.2	2529.7
41188.1	67.5°	*27688.6*	*10057.7*	*2752.1*	*2977.7*	*2887.5*	*2574.9*	*2439.5*	*2426.6*	*2371.8*	*2375.1*
39824.9	70°	25413.5	8150.0	2355.7	2755.3	2752.1	2458.8	2291.3	2249.4	2175.3	2188.1
34626.9	72.5°	21146.7	6039.2	1824.0	2384.7	2536.2	2352.5	2120.5	2052.8	1959.3	1972.2
25561.7	75°	15271.9	4105.6	1327.7	1814.3	2207.5	2226.8	1952.9	1836.9	1724.1	1743.4
14227.8	77.5°	7814.8	2326.7	976.4	1250.4	1733.8	2023.8	1801.4	1646.8	1621.0	1801.4
4102.4	80°	2549.1	1166.6	676.7	876.5	1137.6	1656.4	1579.1	1401.8	1395.4	1437.3
860.4	82.5°	760.5	493.1	435.1	576.8	628.4	1269.7	1363.2	1060.2	912.0	960.3
286.8	85°	261.0	238.5	248.1	286.8	299.7	744.4	953.9	702.5	663.9	731.5
64.5	87.5°	61.2	83.8	70.9	64.5	64.5	180.5	370.6	293.3	406.0	270.7
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°
7325.0
5791.0
5262.5
5333.4
5513.9
5668.6
5755.6
5742.7
5600.9
5362.4
5104.6
4869.4
4672.8
4585.8
4463.3
4244.2
3841.3
3619.0
3567.4
3422.4
3254.8
3064.7
2929.3
2761.8
2739.2
2655.4
2526.5
2375.1
2201.0
1969.0
1749.9
1775.7
1234.3
992.6
721.9
261.0
0.0

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