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: P944268

Luminaire Tested: **GALN-SB9A-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P944268
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9A-850-U-T4FT-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	29590 lumens
Efficiency:	N/A
Efficacy:	115.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G5

Input Watts (W):	255.5
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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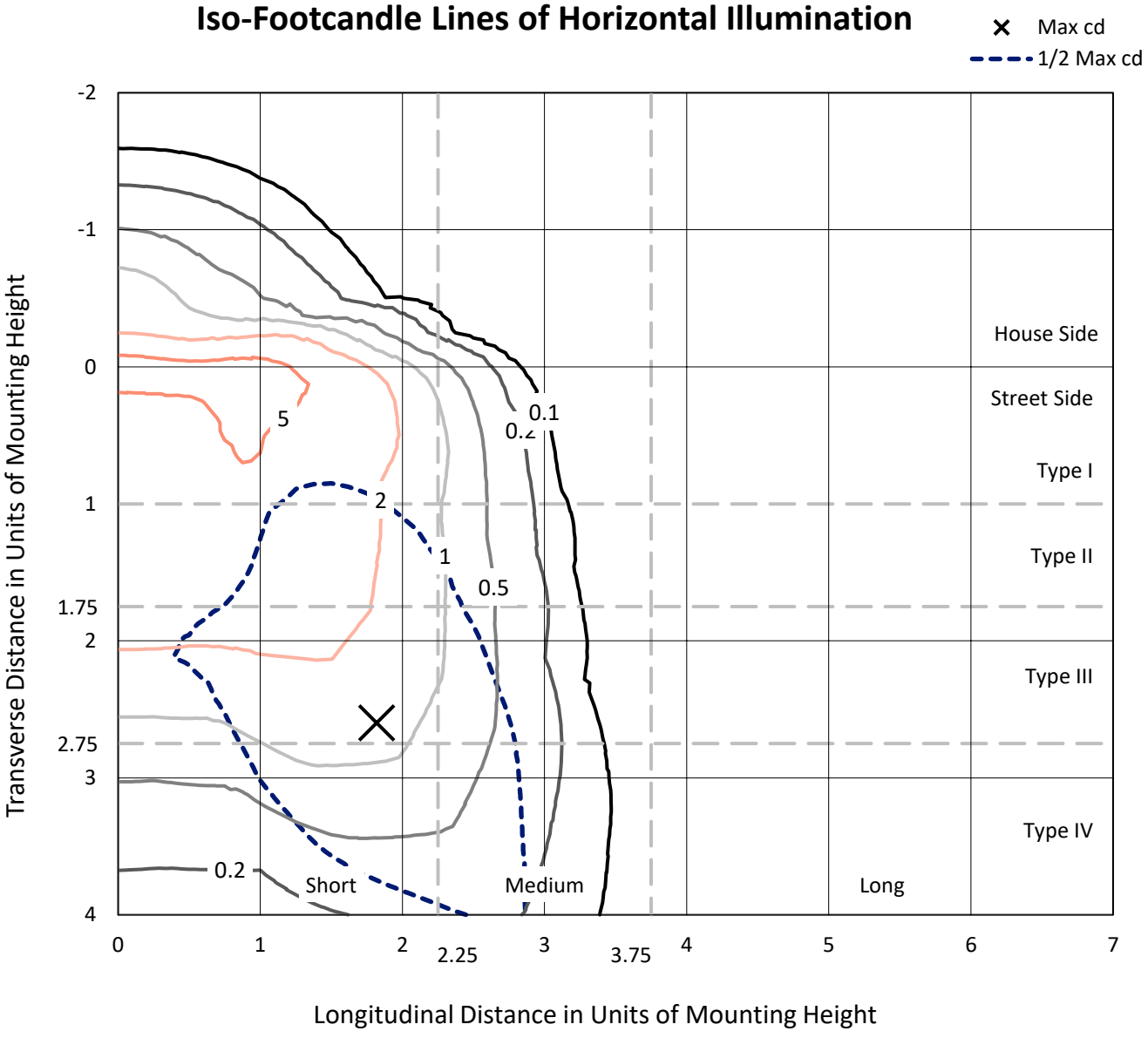
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Short - N/A

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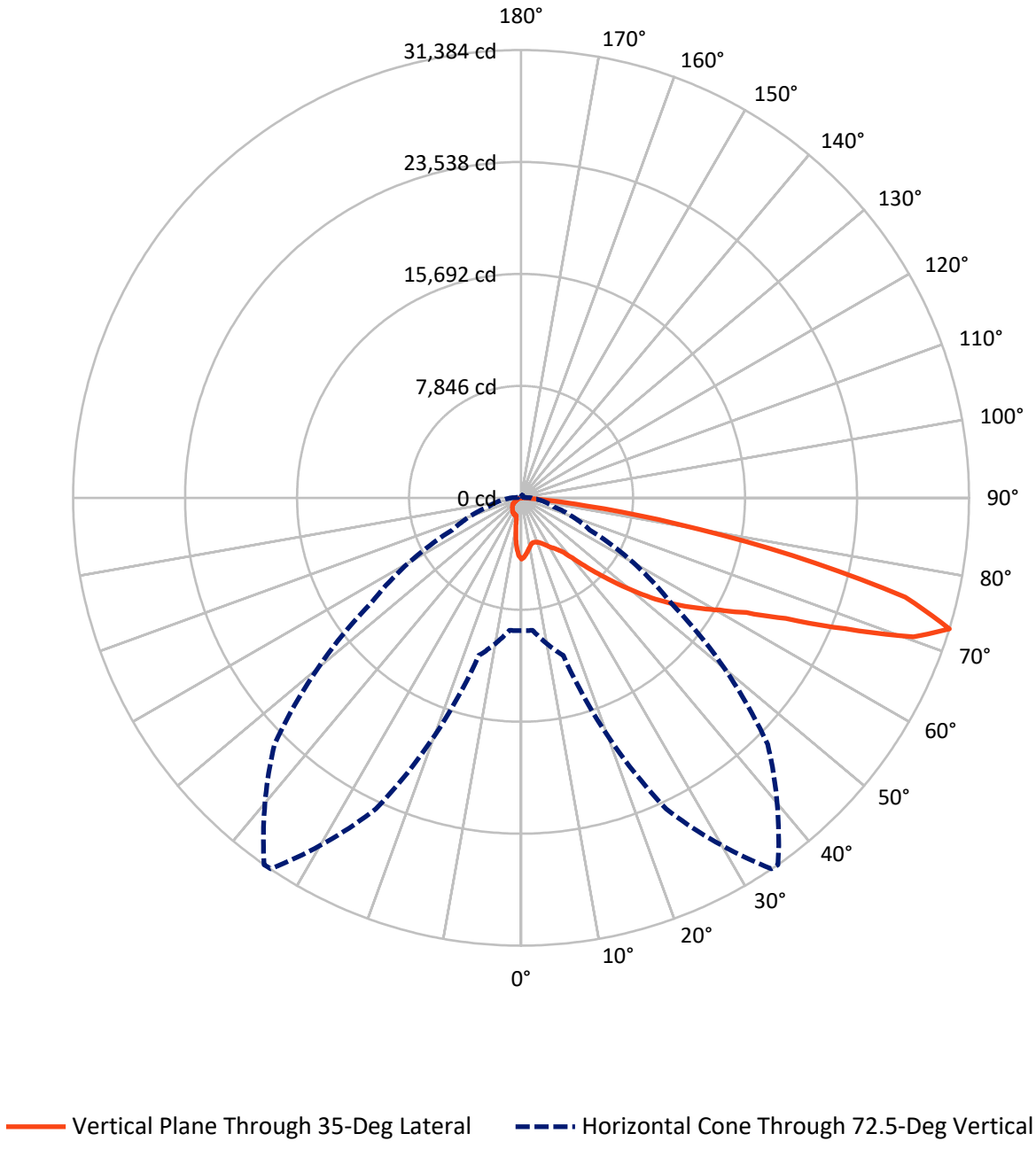
Luminous Intensity Polar Plot



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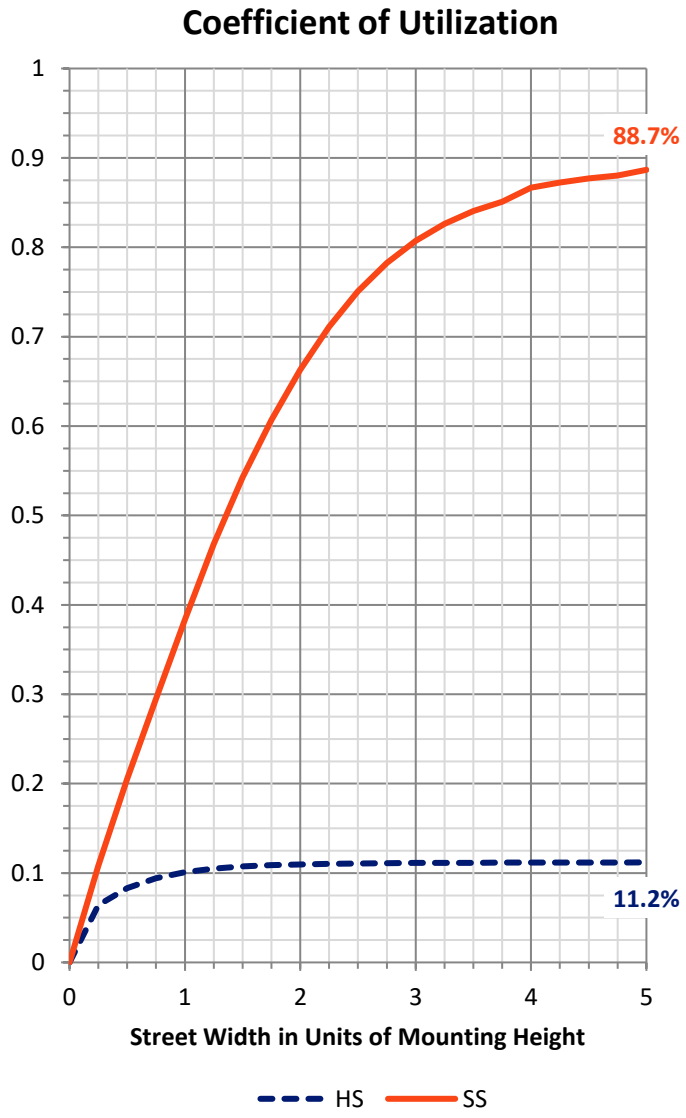
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3330.2	0.0	3330.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	26259.8	0.0	26259.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	29590.0	0.0	29590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	1.2
10°-20°	824.4	2.8
20°-30°	1339.2	4.5
30°-40°	2234.5	7.6
40°-50°	4227.8	14.3
50°-60°	6717.9	22.7
60°-70°	8310.5	28.1
70°-80°	5165.8	17.5
80°-90°	417.5	1.4
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°	29590.0	100.0
0°-180°	29590.0	100.0



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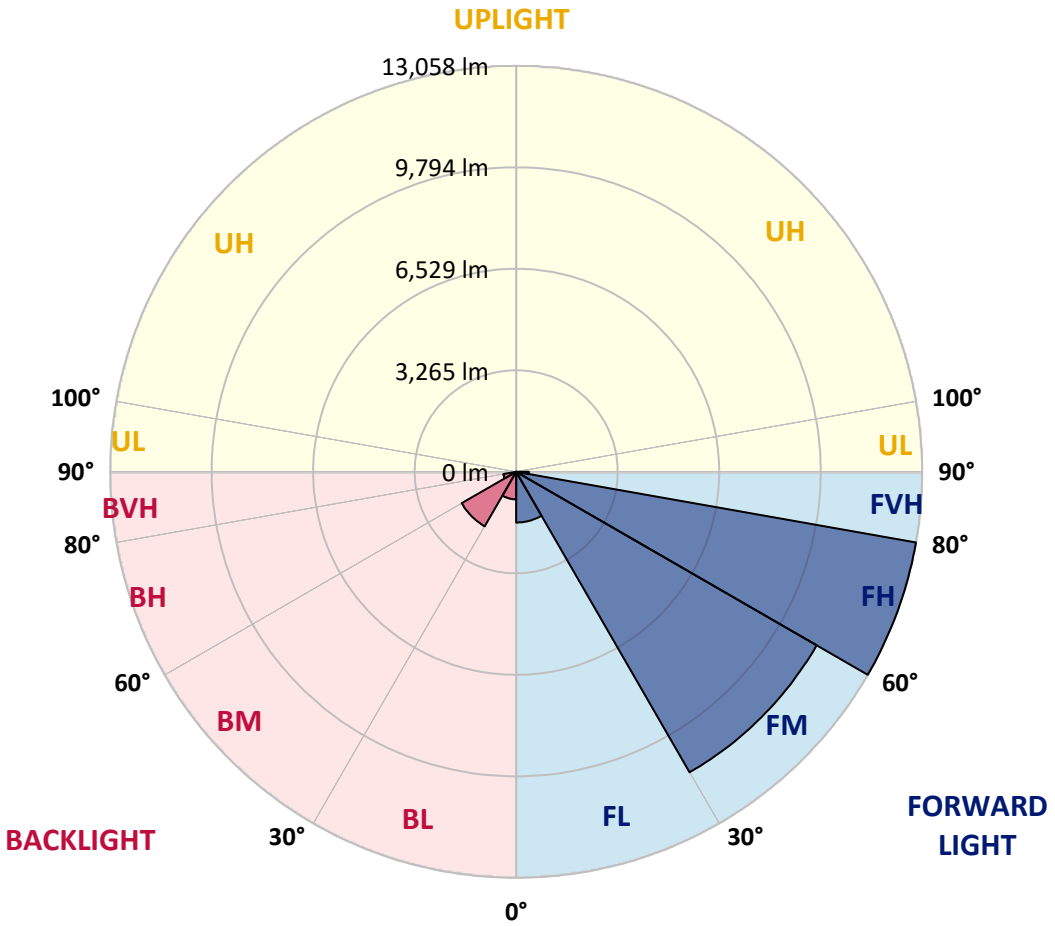
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1631.2	5.5			
FM	(30°-60°)	11158.4	37.7			
FH	(60°-80°)	13058.4	44.1			G5
FVH	(80°-90°)	411.8	1.4			G3/500
BL	(0°-30°)	884.9	3.0	B2/1000		
BM	(30°-60°)	2021.7	6.8	B2/2500		
BH	(60°-80°)	417.9	1.4	B1/500		G1/500
BVH	(80°-90°)	5.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4288.6	4288.6	4288.6	4288.6	4288.6	4288.6	4288.6	4288.6	4288.6	4288.6
2.5°	4097.8	4132.5	4139.0	4149.8	4149.8	4162.8	4184.5	4214.9	4264.7	4290.8
5°	3776.9	3802.9	3835.4	3861.5	3911.3	3917.8	4002.4	4084.8	4199.7	4286.4
7.5°	3453.8	3484.2	3527.6	3590.4	3655.5	3675.0	3802.9	3941.7	4123.8	4286.4
10°	3226.2	3228.4	3267.4	3330.3	3434.3	3458.2	3614.3	3811.6	4039.2	4260.4
12.5°	3098.3	3113.5	3130.8	3178.5	3278.2	3293.4	3460.4	3692.3	3954.7	4245.2
15°	3098.3	3109.1	3120.0	3143.8	3224.0	3237.0	3384.5	3616.5	3911.3	4251.7
17.5°	3130.8	3148.1	3139.5	3167.7	3252.2	3260.9	3391.0	3594.8	3909.2	4292.9
20°	3208.8	3221.9	3204.5	3221.9	3306.4	3323.8	3458.2	3636.0	3946.0	4364.5
22.5°	3332.4	3338.9	3297.7	3310.8	3397.5	3419.2	3575.3	3753.1	4034.9	4479.4
25°	3488.5	3501.5	3438.7	3453.8	3536.2	3562.3	3742.2	3928.7	4175.8	4637.7
27.5°	3668.5	3675.0	3620.8	3618.6	3724.9	3761.7	3943.8	4145.5	4364.5	4837.1
30°	3874.5	3894.0	3841.9	3833.3	3967.7	3998.1	4178.0	4412.2	4642.0	5136.3
32.5°	4037.1	4052.3	4021.9	4043.6	4180.2	4204.0	4462.0	4789.4	5077.8	5561.3
35°	4271.2	4279.9	4210.5	4249.6	4405.7	4466.4	4850.1	5318.5	5626.3	6094.6
37.5°	5119.0	5119.0	4824.1	4631.1	4780.8	4835.0	5381.3	5984.1	6302.8	6810.1
40°	6291.9	6272.4	5841.0	5446.4	5426.9	5533.1	6138.0	6823.1	7176.5	7668.7
42.5°	7543.0	7512.6	6925.0	6534.8	6469.7	6506.6	7011.8	7857.3	8217.3	8715.9
45°	8653.1	8644.4	8106.7	7582.0	7464.9	7582.0	8102.3	9067.2	9325.2	9849.9
47.5°	9583.2	9583.2	9190.8	8848.2	8787.5	8856.9	9578.8	10409.2	10385.4	11057.5
50°	10654.2	10645.6	10272.7	10125.2	10188.1	10285.7	11278.7	11822.9	11482.5	12243.5
52.5°	11404.4	11456.5	11328.5	11304.7	11625.6	11794.7	13004.5	13206.1	12464.6	13368.8
55°	11998.5	12059.2	12206.6	12373.6	12991.5	13212.7	14676.1	14517.9	13286.4	14344.4
57.5°	12839.7	12753.0	12980.7	13310.2	14309.7	14576.4	16295.7	15755.9	13947.7	15135.8
60°	13860.9	13873.9	13913.0	14329.2	15625.8	15968.4	17891.5	16926.7	14372.6	15621.5
62.5°	15088.1	15107.6	15187.8	15827.4	17392.8	17715.9	19591.3	17885.0	14567.7	15484.9
65°	15003.5	15085.9	15981.4	18169.0	20079.2	20397.9	21575.2	18557.1	14272.9	14236.0
67.5°	13668.0	13802.4	15300.6	20965.9	24129.2	24484.8	23973.1	18689.4	13000.2	11070.5
70°	11916.1	11963.8	13765.5	23481.0	28818.9	29178.8	26119.6	17234.6	9865.0	6174.9
72.5°	9305.7	9316.5	11430.4	24064.2	31364.3	31383.8	24435.0	12794.2	5305.4	2371.9
75°	6647.5	6582.5	7655.7	19515.4	27593.9	27815.1	18318.6	6001.4	2027.2	1120.9
77.5°	3564.4	3636.0	4331.9	11573.5	19062.3	19439.6	9995.1	1730.2	1032.0	763.2
80°	1101.4	1162.1	1775.7	5298.9	10797.3	11025.0	3705.4	769.7	719.8	544.2
82.5°	346.9	359.9	828.2	2226.7	4481.5	4585.6	1073.2	435.8	492.2	359.9
85°	99.7	101.9	368.6	830.4	1107.9	1129.6	301.4	169.1	281.9	223.3
87.5°	10.8	34.7	138.8	138.8	97.6	95.4	32.5	36.9	80.2	28.2
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°
4288.6	0°	4288.6	4288.6	4288.6	4288.6	4288.6	4288.6	4288.6	4288.6	4288.6	4288.6
4308.1	2.5°	4297.3	4299.4	4271.2	4223.5	4171.5	4128.1	4073.9	4030.6	4000.2	3991.5
4347.1	5°	4327.6	4312.4	4232.2	4086.9	3913.5	3763.9	3596.9	3464.7	3378.0	3341.1
4388.3	7.5°	4373.1	4329.8	4154.2	3868.0	3536.2	3241.4	2942.2	2710.2	2562.7	2489.0
4427.3	10°	4412.2	4325.4	4024.1	3551.4	3044.1	2597.4	2194.2	1914.5	1758.4	1684.6
4472.9	12.5°	4449.0	4323.3	3855.0	3176.3	2489.0	1942.7	1567.6	1428.8	1385.4	1370.3
4546.6	15°	4518.4	4329.8	3642.5	2747.0	1936.2	1467.8	1331.2	1329.1	1337.7	1333.4
4659.3	17.5°	4613.8	4336.3	3401.8	2291.7	1493.8	1294.4	1287.9	1307.4	1320.4	1313.9
4800.3	20°	4737.4	4362.3	3146.0	1840.8	1283.5	1251.0	1266.2	1283.5	1294.4	1283.5
4988.9	22.5°	4910.8	4407.8	2866.3	1478.7	1216.3	1225.0	1238.0	1257.5	1268.4	1253.2
5229.6	25°	5123.3	4479.4	2590.9	1285.7	1183.8	1194.6	1214.2	1235.8	1248.8	1233.7
5533.1	27.5°	5398.7	4594.3	2337.3	1242.3	1151.3	1157.8	1186.0	1218.5	1235.8	1216.3
5964.6	30°	5797.6	4782.9	2118.3	1261.9	1131.8	1116.6	1155.6	1201.2	1220.7	1203.3
6552.1	32.5°	6326.6	5049.6	1983.8	1292.2	1123.1	1068.9	1105.8	1164.3	1196.8	1186.0
7319.6	35°	7020.4	5455.0	1931.8	1326.9	1116.6	1019.0	1045.0	1107.9	1164.3	1175.1
8286.6	37.5°	7861.7	6018.8	1947.0	1342.1	1097.1	977.8	990.8	1045.0	1118.8	1153.5
9375.0	40°	8817.8	6675.7	2033.7	1326.9	1075.4	943.1	945.3	986.5	1051.5	1103.6
10545.8	42.5°	9804.3	7443.2	2194.2	1270.5	1055.9	912.8	906.3	934.5	977.8	1014.7
11714.5	45°	10743.1	8232.4	2352.4	1192.5	1032.0	882.4	867.3	878.1	886.8	901.9
12852.7	47.5°	11562.7	8787.5	2306.9	1120.9	999.5	847.7	821.7	817.4	791.4	789.2
13869.6	50°	12128.6	8908.9	2048.9	1049.4	951.8	808.7	767.5	741.5	696.0	674.3
14630.6	52.5°	12308.5	8429.7	1673.8	977.8	873.8	756.7	698.1	656.9	600.6	581.1
15068.6	55°	12070.0	7490.9	1337.7	891.1	765.4	687.3	622.3	568.1	522.5	498.7
15116.3	57.5°	11486.8	6296.3	1058.1	789.2	650.4	609.2	544.2	490.0	451.0	427.1
14587.3	60°	10519.8	4999.7	836.9	667.8	555.0	524.7	457.5	422.8	388.1	359.9
13221.3	62.5°	9052.0	3568.8	656.9	529.0	464.0	429.3	390.3	364.2	323.1	284.0
10764.8	65°	7063.8	2183.3	507.3	388.1	372.9	355.6	331.7	307.9	258.0	219.0
7022.6	67.5°	4455.5	1034.2	362.1	292.7	294.9	286.2	275.4	255.8	219.0	184.3
3146.0	70°	1962.2	500.8	238.5	223.3	219.0	219.0	227.7	221.2	186.5	153.9
1092.7	72.5°	*667.8*	*268.8*	*177.8*	*169.1*	*158.3*	*156.1*	*190.8*	*184.3*	*149.6*	*119.2*
544.2	75°	349.1	180.0	130.1	121.4	95.4	114.9	151.8	143.1	106.2	78.1
359.9	77.5°	227.7	127.9	88.9	78.1	54.2	75.9	112.7	99.7	62.9	39.0
236.3	80°	143.1	84.6	52.0	36.9	26.0	41.2	60.7	43.4	23.8	8.7
138.8	82.5°	75.9	43.4	19.5	13.0	10.8	13.0	15.2	10.8	4.3	0.0
71.5	85°	30.4	15.2	6.5	4.3	2.2	0.0	4.3	2.2	0.0	0.0
13.0	87.5°	10.8	2.2	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

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180°
4288.6
4006.7
3354.1
2499.9
1686.8
1365.9
1331.2
1311.7
1281.4
1251.0
1231.5
1216.3
1201.2
1186.0
1175.1
1162.1
1120.9
1029.9
910.6
787.0
676.5
578.9
498.7
422.8
353.4
277.5
212.5
180.0
147.4
112.7
71.5
34.7
6.5
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