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: P944769

Luminaire Tested: **GALN-SB9D-840-U-T4FT**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P944769
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9D-840-U-T4FT
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	87626 lumens
Efficiency:	N/A
Efficacy:	133.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B5 - U0 - G5
Input Watts (W):	658
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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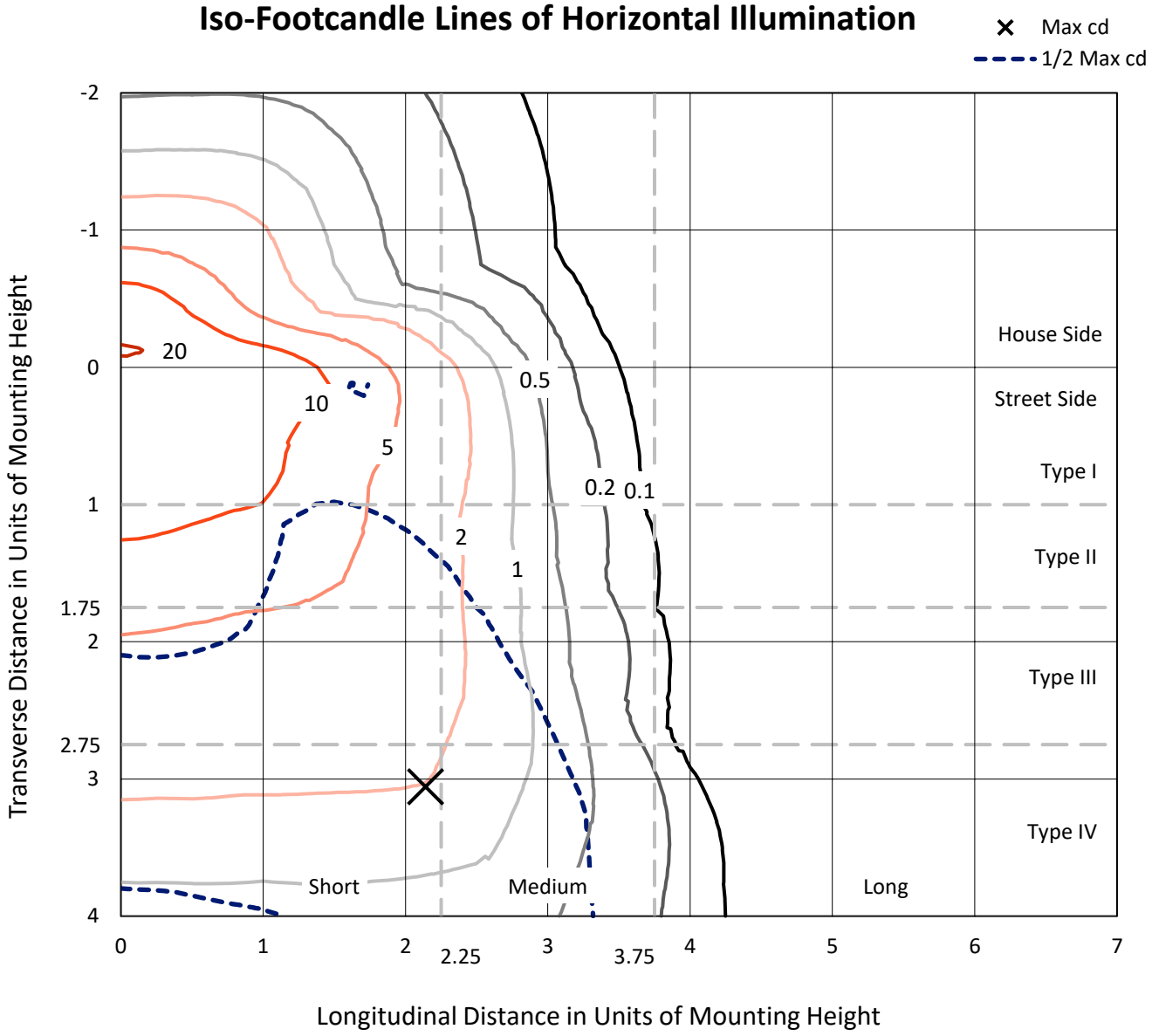
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc
Type IV - Short - N/A

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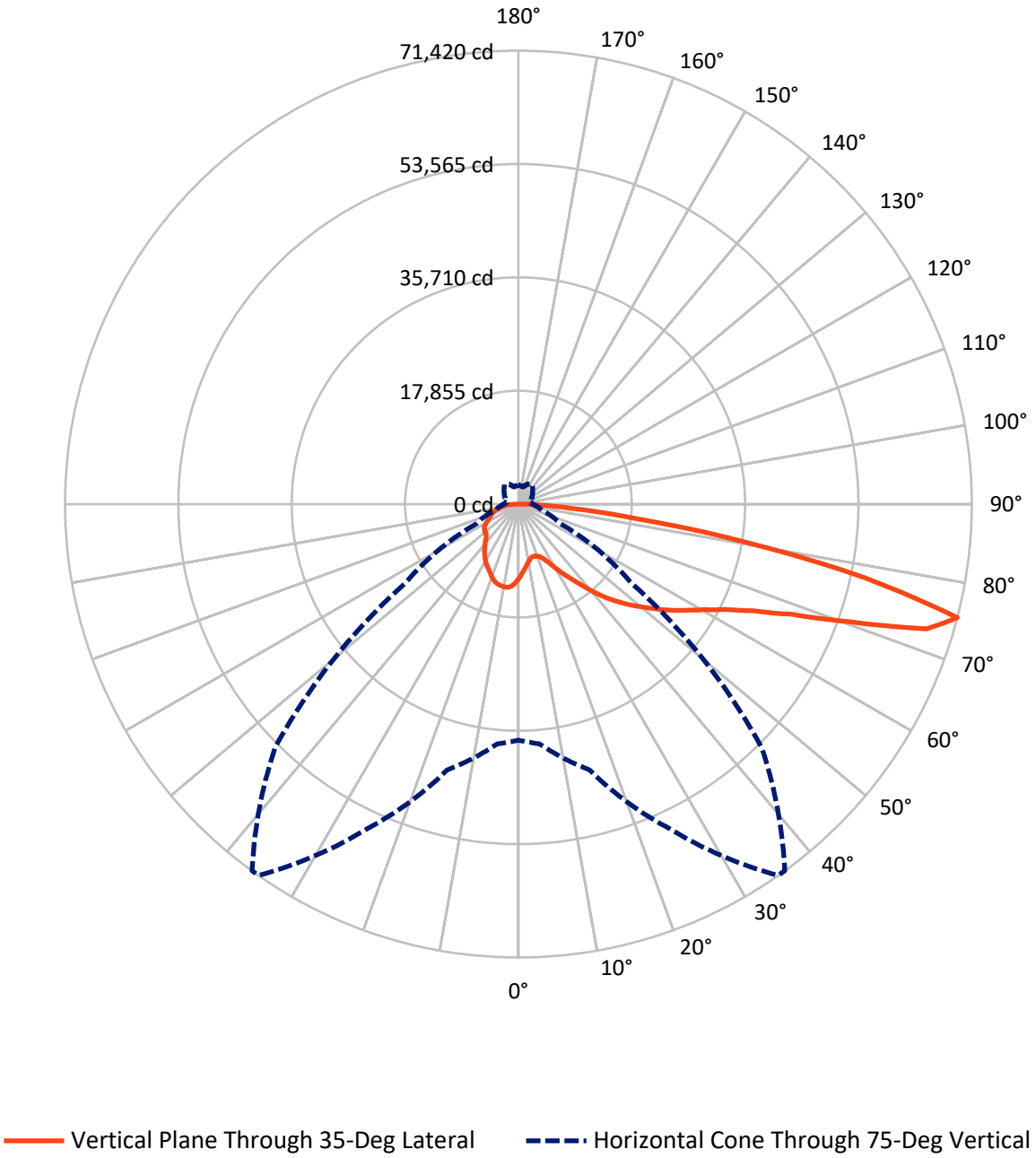
Luminous Intensity Polar Plot



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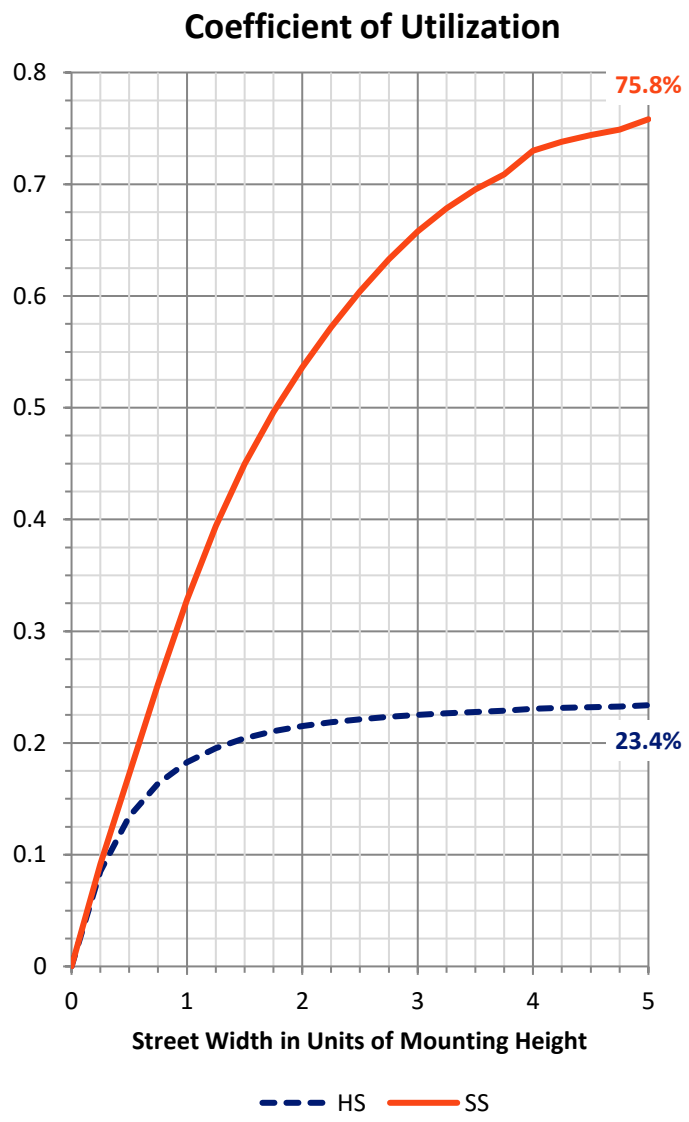
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20852.8	0.0	20852.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	66773.2	0.0	66773.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	87626.0	0.0	87626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1105.6	1.3
10°-20°	3188.9	3.6
20°-30°	5355.0	6.1
30°-40°	8322.4	9.5
40°-50°	12352.7	14.1
50°-60°	17053.6	19.5
60°-70°	20689.9	23.6
70°-80°	17098.6	19.5
80°-90°	2459.3	2.8
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°	87626.0	100.0
0°-180°	87626.0	100.0



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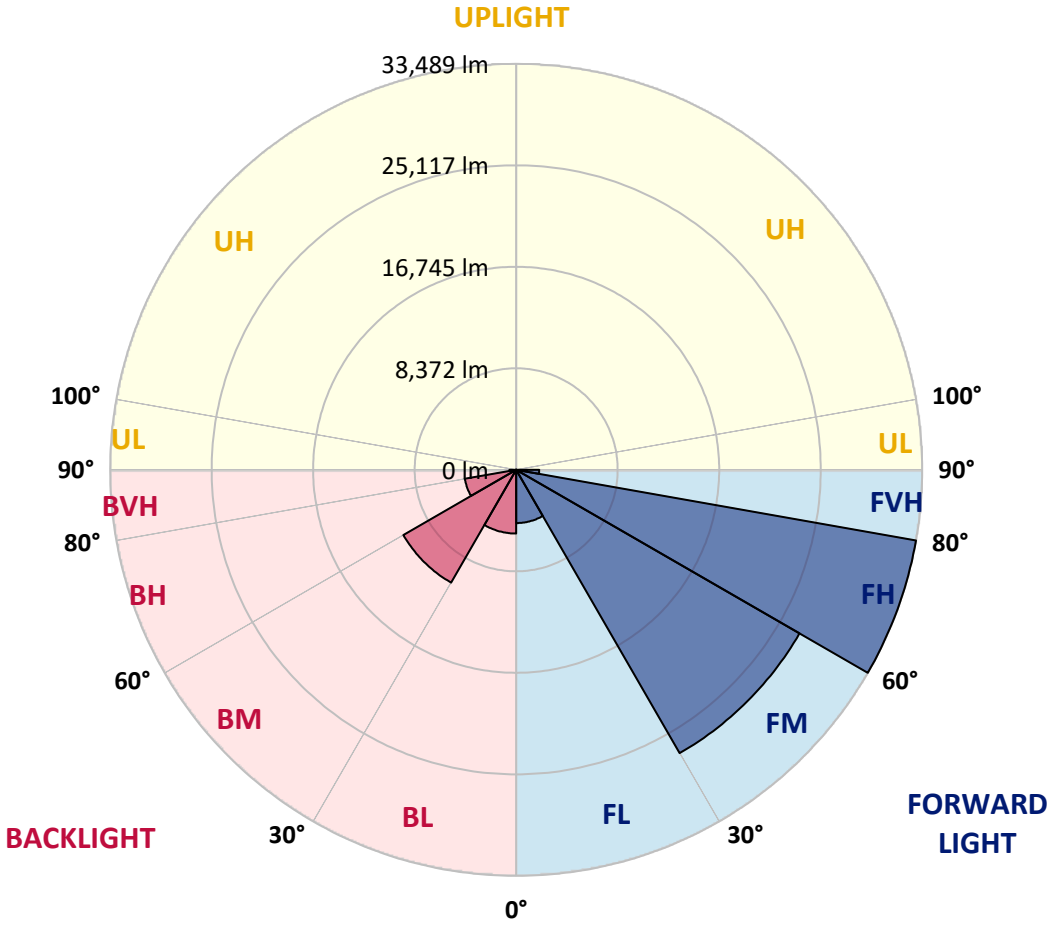
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4394.3	5.0			
FM	(30°-60°)	26984.1	30.8			
FH	(60°-80°)	33489.3	38.2			G5
FVH	(80°-90°)	1905.5	2.2			G5
BL	(0°-30°)	5255.2	6.0	B5		
BM	(30°-60°)	10744.6	12.3	B5		
BH	(60°-80°)	4299.2	4.9	B4/5000		G4/5000
BVH	(80°-90°)	553.8	0.6			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	11676.8	11676.8	11676.8	11676.8	*11676.8*	11676.8	11676.8	11676.8	11676.8	11676.8
2.5°	10767.2	10833.6	10862.0	10847.8	*10918.8*	10909.4	11008.8	11132.0	11302.5	11468.3
5°	9938.3	10009.3	10070.9	10127.8	*10265.1*	10307.8	10464.1	10700.9	11013.6	11331.0
7.5°	9166.1	9227.7	9322.5	9426.7	*9658.8*	9701.4	9962.0	10331.4	10767.2	11231.5
10°	8536.1	8597.7	8697.2	8815.6	*9104.6*	9156.7	9488.3	9980.9	10549.3	11136.7
12.5°	8266.1	8285.1	8341.9	8460.3	*8711.4*	8744.5	9109.3	9673.0	10336.2	11065.7
15°	8251.9	8289.8	8294.5	8356.1	*8564.5*	8578.7	8915.1	9474.0	10203.5	11051.5
17.5°	8394.0	8422.4	8379.8	8417.7	*8593.0*	8616.6	8881.9	9379.3	10160.9	11113.1
20°	8773.0	8796.6	8668.7	8616.6	*8744.5*	8763.5	9024.0	9440.9	10203.5	11241.0
22.5°	9578.3	9592.5	9279.8	9066.7	*9076.1*	9085.6	9313.0	9691.9	10369.3	11473.1
25°	10833.6	10824.1	10326.7	9914.6	*9677.7*	9625.6	9777.2	10099.3	10648.8	11781.0
27.5°	12302.0	12231.0	11733.6	11117.8	*10601.5*	10525.7	10492.5	10629.9	11046.7	12188.4
30°	13960.0	13893.7	13358.4	12553.1	*11837.8*	11714.7	11402.0	11331.0	11638.9	12742.6
32.5°	15779.0	15736.4	15096.9	14121.1	*13164.2*	13022.1	12496.3	12306.8	12548.4	13581.0
35°	17304.3	17266.4	16735.9	15731.6	*14561.6*	14386.3	13851.0	13637.9	13761.0	14656.3
37.5°	18682.8	18663.9	18209.1	17418.0	*16210.1*	15996.9	15395.3	15324.3	15300.6	16072.7
40°	19961.8	19914.4	19440.7	19023.9	*18128.6*	17934.4	17403.8	17342.2	17162.2	17815.9
42.5°	21378.2	21255.0	20568.1	20373.9	*20132.3*	19971.3	19653.9	19663.4	19265.5	19781.8
45°	22534.0	22463.0	21757.1	21643.4	*21904.0*	21837.7	22112.4	22183.5	21411.3	21842.4
47.5°	23775.1	23708.8	23111.9	23031.4	*23737.2*	23756.2	24727.3	24750.9	23505.1	23983.5
50°	25305.2	25210.4	24618.3	24717.8	*25508.9*	25579.9	27356.3	27195.2	25433.1	26157.8
52.5°	26314.2	26371.0	26243.1	26404.2	*27484.2*	27550.5	29942.7	29530.6	27342.1	28303.7
55°	27057.9	27171.6	27569.5	27939.0	*29568.5*	29634.8	32382.3	31752.3	28924.3	30293.3
57.5°	28014.7	27853.7	28597.4	29317.4	*31548.6*	31723.8	34755.5	33893.4	30326.4	32008.1
60°	29388.5	29274.8	29852.7	30918.5	*33765.5*	34045.0	37266.1	35821.4	31354.3	33367.6
62.5°	32173.8	31889.6	31979.6	32922.3	*36560.3*	36929.8	40098.9	37503.0	31865.9	33898.1
65°	36337.7	35849.8	35395.0	36048.7	*40496.8*	40861.5	43296.4	38824.6	31676.5	32870.2
67.5°	41581.6	41098.4	40539.4	41155.2	*46294.9*	46583.9	47242.3	39568.3	30184.3	28910.0
70°	45906.5	45726.5	46394.4	48928.7	*55555.8*	55565.3	52301.5	38952.5	26096.2	20497.1
72.5°	45333.3	45224.3	48743.9	56579.0	*67227.8*	66976.7	57090.6	34291.3	17579.1	9246.7
75°	*37190.4*	*37896.2*	*43348.5*	*56441.6*	*71420.1*	*71386.9*	*54158.4*	*21799.8*	*7271.3*	*3832.3*
77.5°	19942.9	21060.8	28142.6	41671.6	*55754.7*	56593.2	38076.2	7626.6	3121.7	2453.8
80°	6503.9	7479.8	11217.3	21217.1	*36228.7*	36072.4	16319.0	2993.8	2136.4	1738.5
82.5°	2761.7	2875.4	5011.8	10018.8	*18592.8*	18303.8	5196.5	1719.5	1501.6	1189.0
85°	1080.0	1207.9	2212.2	4632.8	*8052.9*	7877.7	1875.9	852.7	961.6	776.9
87.5°	355.3	431.1	791.1	1586.9	*2505.9*	2415.9	459.5	293.7	416.9	355.3
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°
11676.8	0°	11676.8	11676.8	11676.8	11676.8	11676.8	11676.8	11676.8	11676.8	11676.8	11676.8
11709.9	2.5°	11776.2	11852.0	11942.0	12074.7	12188.4	12283.1	12382.6	12444.2	12467.8	12538.9
11728.9	5°	11861.5	12027.3	12249.9	12467.8	12681.0	12808.9	12922.6	12979.4	13031.5	13069.4
11781.0	7.5°	12003.6	12216.8	12567.3	12851.5	13031.5	13135.8	13211.6	13192.6	13211.6	13221.0
11837.8	10°	12126.8	12425.2	12842.1	13112.1	13249.4	13254.2	13235.2	13168.9	13135.8	13140.5
11923.1	12.5°	12273.6	12605.2	13055.2	13282.6	13320.5	13216.3	13135.8	13022.1	12979.4	12960.5
12051.0	15°	12472.6	12851.5	13287.3	13372.6	13277.9	13145.2	13007.9	12823.1	12728.4	12652.6
12268.9	17.5°	12714.2	13131.0	13467.4	13405.8	13202.1	12984.2	12761.5	12482.1	12287.8	12207.3
12567.3	20°	13050.5	13424.7	13604.7	13334.7	13026.8	12695.2	12316.3	11975.2	11795.2	11714.7
12946.3	22.5°	13457.9	13817.9	13737.4	13211.6	12775.7	12245.2	11771.5	11520.4	11430.4	11373.6
13434.2	25°	13945.8	14253.7	13832.1	13031.5	12363.6	11648.3	11283.6	11203.1	11160.4	11117.8
14031.1	27.5°	14580.6	14746.3	13903.2	12766.3	11719.4	11013.6	10880.9	10895.1	10880.9	10809.9
14860.0	30°	15419.0	15385.8	13969.5	12335.2	10980.4	10440.4	10449.9	10511.5	10520.9	10473.6
16015.9	32.5°	16522.7	16186.4	14002.6	11776.2	10274.6	9938.3	9947.7	10014.1	10061.4	9980.9
17527.0	35°	17858.6	17119.6	13950.5	11075.2	9729.8	9459.8	9388.8	9407.7	9421.9	9346.1
19360.2	37.5°	19417.0	18166.5	13718.4	10298.3	9279.8	8990.9	8839.3	8711.4	8635.6	8564.5
21435.0	40°	21127.1	19308.1	13292.1	9540.4	8777.7	8493.5	8266.1	8024.5	7768.7	7674.0
23633.0	42.5°	22917.7	20482.9	12775.7	8815.6	8199.8	7967.7	7726.1	7375.5	6991.8	6797.6
25916.2	45°	24774.6	21686.1	12268.9	8100.3	7607.7	7508.2	7228.7	6807.1	6390.2	6143.9
28204.2	47.5°	26593.6	22823.0	11525.2	7380.3	7053.4	7162.4	6944.5	6556.0	6091.8	5703.4
30473.3	50°	28332.1	23888.8	10307.8	6650.8	6603.4	7058.2	6849.7	6290.8	5760.2	5262.8
32699.7	52.5°	30056.4	24750.9	8749.3	5987.6	6361.8	7029.7	6726.6	6110.8	5461.8	4940.7
34793.4	55°	31520.1	25196.2	7247.6	5419.2	6011.3	6788.2	6579.7	5897.6	5040.2	4486.0
36228.7	57.5°	32353.9	24836.2	5997.1	4860.2	5528.1	6390.2	6328.7	5442.8	4538.1	4111.7
36508.2	60°	31993.8	23377.2	4973.9	4372.3	5068.6	5959.2	5892.9	4992.8	4154.4	3751.7
35011.3	62.5°	30009.0	20596.6	4163.8	3945.9	4651.8	5518.6	5457.0	4647.0	3860.7	3472.2
31037.0	65°	26011.0	16754.8	3533.8	3590.7	4230.2	4988.1	5078.1	4358.1	3628.6	3249.6
24012.0	67.5°	19838.6	12136.2	3041.2	3282.8	3818.0	4467.0	4727.5	4149.6	3434.3	3074.3
13893.7	70°	11307.3	6892.4	2624.3	2984.3	3453.3	3983.8	4457.5	3983.8	3225.9	2927.5
5206.0	72.5°	4287.0	3164.3	2269.0	2685.9	3102.7	3576.5	4159.1	3723.3	2984.3	2761.7
2690.6	75°	*2288.0*	*1928.0*	*1909.0*	*2335.4*	*2700.1*	*3178.5*	*3784.9*	*3467.5*	*2804.3*	*2918.0*
1861.6	77.5°	1558.5	1364.3	1596.4	1999.0	2259.6	2738.0	3387.0	3079.1	2430.1	2420.6
1288.5	80°	1080.0	966.4	1297.9	1610.6	1748.0	2302.2	2955.9	2643.3	1980.1	1847.4
795.8	82.5°	649.0	630.0	971.1	1203.2	1236.4	1776.4	2449.0	2216.9	1620.1	1411.6
473.7	85°	355.3	374.2	620.5	705.8	720.0	1241.1	1918.5	1714.8	1245.8	1046.9
170.5	87.5°	99.5	127.9	227.4	279.5	345.8	644.2	1141.6	1018.5	625.3	435.8
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°
11676.8
12534.2
13078.9
13235.2
13150.0
12951.0
12676.3
12212.0
11705.2
11383.1
11117.8
10824.1
10497.2
10018.8
9398.3
8611.9
7716.6
6821.3
6125.0
5660.7
5220.2
4883.9
4438.6
4054.9
3694.9
3410.7
3188.0
3017.5
2889.6
2723.8
3012.7
2231.1
1766.9
1421.1
1056.4
435.8
0.0

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