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: P942652

Luminaire Tested: **GALN-SB6D-735-U-SL4**

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:	P942652
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB6D-735-U-SL4
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	61169 lumens
Efficiency:	N/A
Efficacy:	139.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Medium
BUG Rating:	B5 - U0 - G5
Input Watts (W):	440.1
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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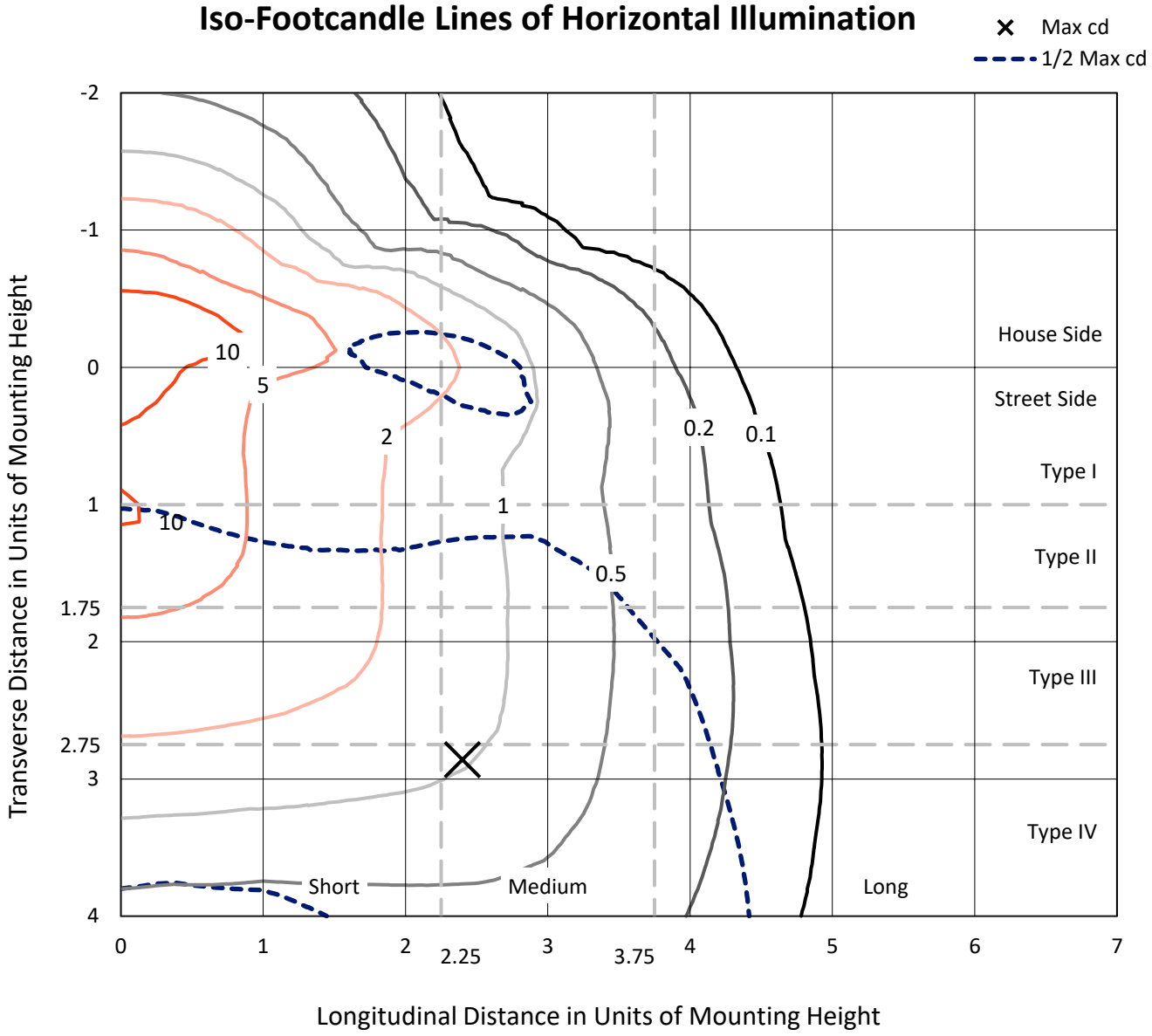
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
Type IV - Medium - N/A

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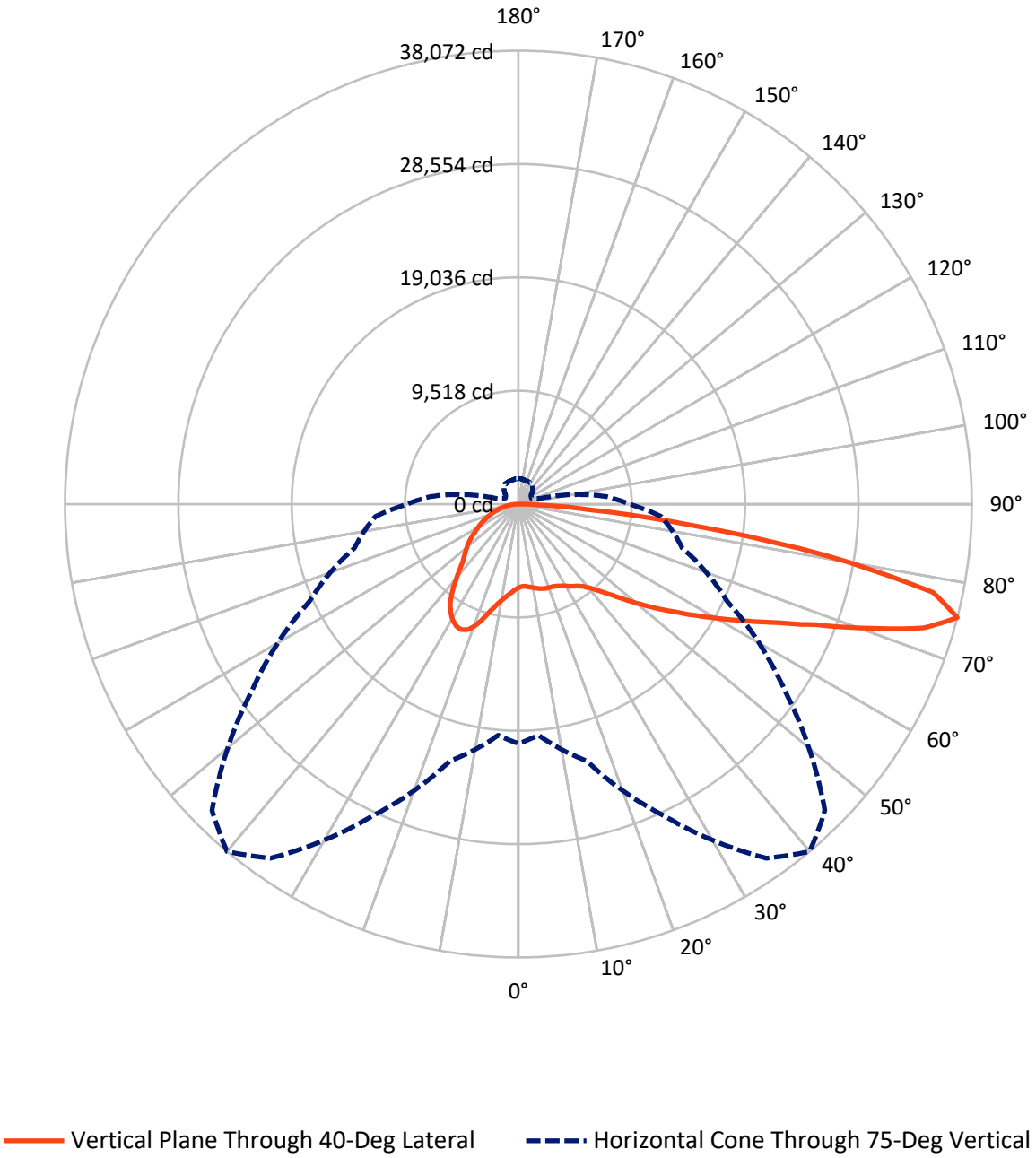
Luminous Intensity Polar Plot



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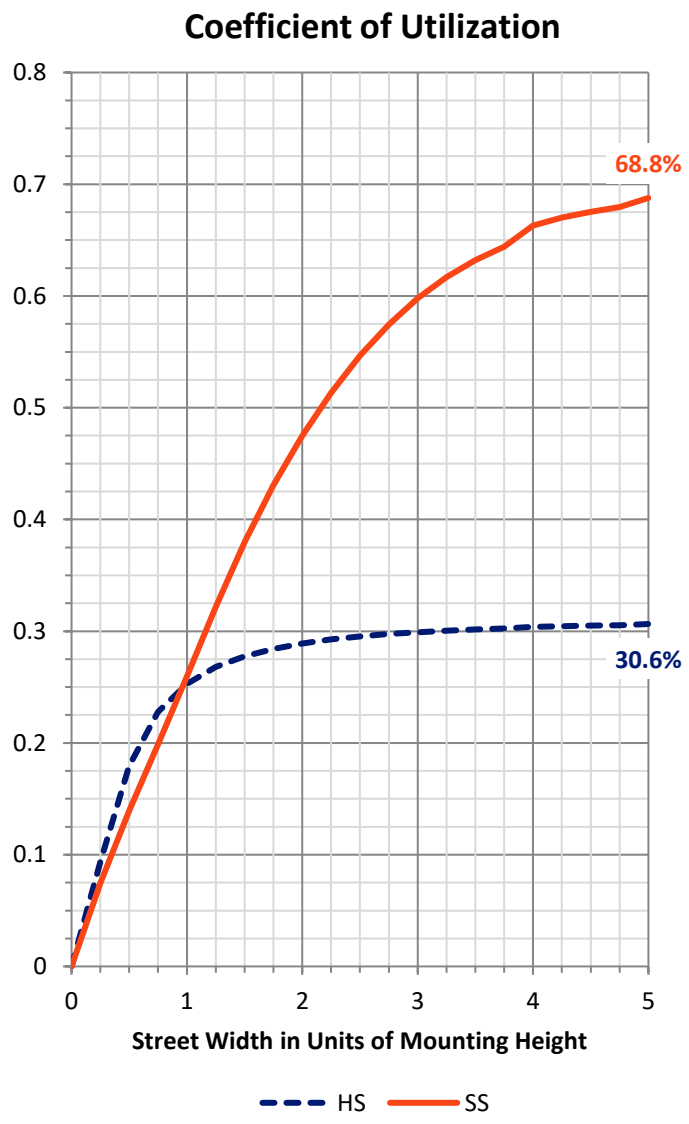
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18952.2	0.0	18952.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	42216.8	0.0	42216.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	61169.0	0.0	61169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.2	1.1
10°-20°	2344.2	3.8
20°-30°	4280.3	7.0
30°-40°	6070.7	9.9
40°-50°	8197.3	13.4
50°-60°	11027.5	18.0
60°-70°	13996.5	22.9
70°-80°	12702.6	20.8
80°-90°	1851.6	3.0
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°	61169.0	100.0
0°-180°	61169.0	100.0



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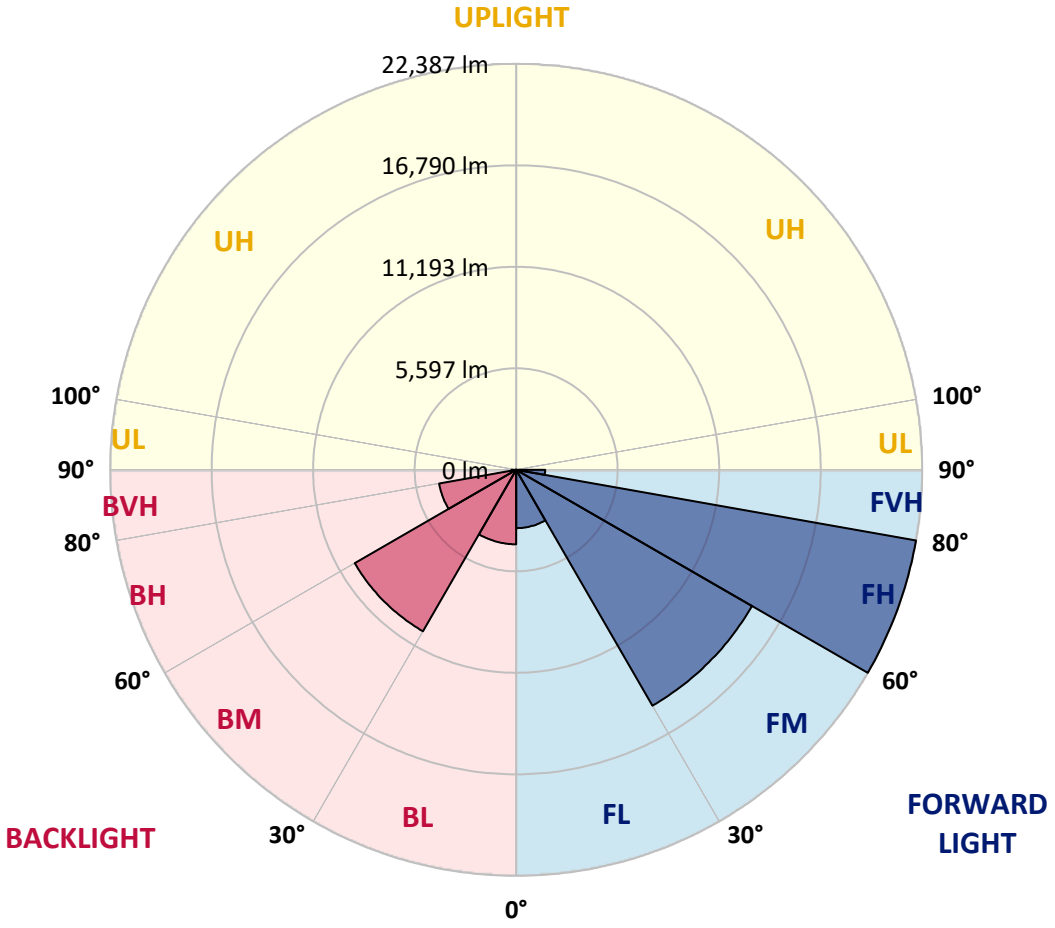
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3217.5	5.3			
FM	(30°-60°)	15015.6	24.5			
FH	(60°-80°)	22386.9	36.6			G5
FVH	(80°-90°)	1596.7	2.6			G5
BL	(0°-30°)	4105.2	6.7	B4/5000		
BM	(30°-60°)	10279.9	16.8	B5		
BH	(60°-80°)	4312.2	7.0	B4/5000		G4/5000
BVH	(80°-90°)	254.9	0.4			G3/500
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6994.8	6994.8	6994.8	6994.8	6994.8	*6994.8*	6994.8	6994.8	6994.8	6994.8
2.5°	6887.7	6926.6	6916.9	6903.9	6903.9	*6907.2*	6903.9	6926.6	6949.3	6972.0
5°	6959.1	6998.0	6978.5	6962.3	6949.3	*6946.1*	6936.4	6933.1	6946.1	6975.3
7.5°	7098.6	7137.5	7108.3	7079.1	7053.2	*7040.2*	7027.2	7007.7	6998.0	7014.2
10°	7254.3	7293.2	7257.5	7205.6	7163.5	*7147.2*	7134.3	7114.8	7101.8	7111.6
12.5°	7410.0	7449.0	7400.3	7328.9	7273.8	*7264.0*	7247.8	7241.3	7238.1	7234.8
15°	7556.0	7588.5	7526.8	7442.5	7384.1	*7367.9*	7351.6	7361.4	7377.6	7397.1
17.5°	7669.6	7702.0	7611.2	7500.9	7445.7	*7439.2*	7429.5	7461.9	7507.4	7556.0
20°	7773.4	7805.8	7689.0	7539.8	7474.9	*7474.9*	7478.2	7546.3	7611.2	7682.6
22.5°	7919.4	7945.3	7802.6	7598.2	7504.1	*7510.6*	7536.6	7604.7	7685.8	7783.1
25°	8136.8	8156.2	7981.0	7708.5	7601.4	*7620.9*	7643.6	7676.1	7753.9	7867.5
27.5°	8487.1	8503.4	8273.0	7903.2	7741.0	*7773.4*	7805.8	7783.1	7818.8	7916.1
30°	8980.3	8990.0	8698.0	8208.1	7977.8	*7994.0*	8000.5	7906.4	7838.3	7916.1
32.5°	9564.3	9561.0	9213.9	8578.0	8247.1	*8230.8*	8175.7	7990.8	7831.8	7899.9
35°	10469.4	10433.7	9986.0	9097.1	8552.0	*8451.5*	8321.7	8084.8	7864.2	7883.7
37.5°	11968.3	11858.0	11238.3	9947.1	9006.2	*8749.9*	8558.5	8237.3	7935.6	7877.2
40°	13658.6	13519.1	12837.8	11111.8	9687.5	*9275.5*	8967.3	8454.7	8052.4	7906.4
42.5°	15663.6	15465.7	14732.5	12484.1	10550.5	*9953.6*	9489.6	8730.5	8224.4	8000.5
45°	18126.0	17863.2	16825.1	14031.7	11637.4	*10842.5*	10222.9	9149.0	8487.1	8182.2
47.5°	20614.4	20679.3	19203.1	15803.1	12941.6	*11939.1*	11141.0	9778.4	8870.0	8474.2
50°	23258.5	23304.0	21568.2	17765.9	14421.0	*13178.4*	12172.7	10482.4	9402.0	8889.4
52.5°	25321.9	25328.4	23716.0	19819.6	15962.1	*14541.0*	13285.5	11287.0	10018.5	9441.0
55°	26613.2	26596.9	25221.4	21762.9	17733.5	*15971.8*	14518.3	12201.9	10771.1	10089.8
57.5°	27550.8	27502.1	26259.5	23433.7	19621.7	*17662.1*	15913.4	13240.1	11660.1	10862.0
60°	27907.7	27878.5	26963.6	24877.5	21607.2	*19530.8*	17522.6	14401.5	12669.1	11773.6
62.5°	28043.9	28099.1	27654.6	26275.8	23732.2	*21600.7*	19290.7	15790.1	13804.6	12805.3
65°	28524.1	28624.6	28533.8	28105.6	26133.0	*24024.2*	21636.4	17441.5	15043.9	13911.6
67.5°	29474.7	29575.2	29614.2	30295.5	29065.9	*27044.7*	24562.8	19498.4	16494.1	15060.1
70°	29451.9	29422.7	30110.5	32037.7	32738.4	*31226.6*	28507.9	22028.9	18223.4	16014.0
72.5°	26807.8	26574.2	28199.6	32018.2	35794.6	*35593.4*	33325.7	25292.7	19715.7	16130.8
75°	*20111.5*	*19488.6*	*22359.9*	*28855.0*	*36304.0*	*38072.1*	*36388.3*	*27317.2*	*19362.1*	*14252.3*
77.5°	8600.7	7974.5	11358.4	21360.6	32491.9	*35590.2*	33578.7	23832.8	15455.9	9424.8
80°	2251.6	2248.3	3432.5	9684.3	22097.1	*26282.2*	23057.4	15391.1	8831.0	3367.6
82.5°	931.1	908.4	1262.0	3766.7	10797.1	*14748.7*	12036.4	6865.0	3189.2	911.7
85°	347.1	343.9	613.2	1301.0	3808.8	*6083.1*	4402.5	1755.2	794.9	444.5
87.5°	97.3	94.1	133.0	451.0	927.9	*1408.0*	752.7	288.7	223.9	175.2
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°
6994.8	0°	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8	6994.8
7007.7	2.5°	7017.5	7033.7	7062.9	7085.6	7114.8	7147.2	7192.7	7221.9	7251.1	7270.5
7024.0	5°	7046.7	7082.4	7157.0	7231.6	7319.2	7400.3	7494.4	7562.5	7617.7	7633.9
7082.4	7.5°	7111.6	7170.0	7296.5	7423.0	7562.5	7695.5	7831.8	7948.6	8042.7	8078.4
7186.2	10°	7225.1	7303.0	7481.4	7659.8	7844.8	8049.2	8224.4	8393.1	8526.1	8581.2
7309.5	12.5°	7367.9	7465.2	7698.8	7945.3	8201.6	8483.9	8711.0	8918.6	9084.1	9158.7
7481.4	15°	7552.8	7679.3	7977.8	8308.7	8685.0	9077.6	9366.4	9596.7	9781.6	9872.5
7659.8	17.5°	7753.9	7922.6	8299.0	8798.6	9337.2	9853.0	10190.4	10359.1	10550.5	10638.1
7825.3	20°	7948.6	8156.2	8694.8	9421.5	10138.5	10686.8	10959.3	11004.7	11017.7	11027.4
7981.0	22.5°	8149.7	8428.7	9191.2	10206.6	10975.5	11355.1	11394.1	11199.4	10926.9	10800.3
8133.5	25°	8370.3	8740.2	9840.0	11072.9	11695.8	11741.2	11442.7	10969.1	10453.2	10216.4
8256.8	27.5°	8584.5	9100.3	10618.7	11900.2	12214.9	11815.8	11173.4	10501.9	9879.0	9629.1
8344.4	30°	8798.6	9512.3	11478.4	12623.7	12451.7	11630.9	10748.4	9999.0	9372.8	9110.1
8422.3	32.5°	9016.0	9992.5	12467.9	13146.0	12409.5	11238.3	10219.6	9434.5	8883.0	8607.2
8490.4	35°	9262.5	10583.0	13405.5	13431.5	12127.3	10660.8	9522.1	8759.7	8279.5	8058.9
8571.5	37.5°	9583.7	11332.4	14232.8	13502.9	11634.1	9814.1	8655.8	7961.6	7565.8	7465.2
8691.5	40°	9982.8	12234.3	14865.5	13389.3	10904.2	8785.6	7708.5	7153.7	6929.9	6952.6
8853.8	42.5°	10501.9	13243.3	15310.0	13097.3	9888.7	7724.7	6878.0	6631.4	6738.5	6829.3
9097.1	45°	11176.7	14291.2	15585.7	12600.9	8740.2	6826.1	6388.1	6446.5	6527.6	6537.3
9489.6	47.5°	12039.7	15352.1	15767.4	11851.5	7569.0	6193.4	6076.6	6089.6	6073.4	6005.2
10076.9	50°	13116.8	16383.8	15929.6	10858.7	6573.0	5797.6	5641.9	5596.5	5372.6	5152.0
10858.7	52.5°	14343.1	17331.2	15997.7	9625.9	5797.6	5466.7	5213.6	4928.1	4509.6	4441.5
11841.8	55°	15705.8	18207.1	15822.6	8110.8	5145.5	5041.7	4658.8	4314.9	4269.5	4211.1
13136.3	57.5°	17334.4	19151.2	15465.7	6420.5	4477.2	4545.3	4172.2	4211.1	4130.0	4039.2
14800.6	60°	19115.5	20127.8	14839.5	4879.5	3786.1	3925.6	4045.7	4042.4	4019.7	3945.1
16555.8	62.5°	20718.2	20770.1	13606.7	3737.5	3179.4	3445.5	3773.1	3769.9	3750.4	3708.3
18388.8	65°	21672.1	20672.8	11549.8	2942.6	2679.8	3049.7	3403.3	3429.2	3432.5	3429.2
19767.6	67.5°	21503.4	19534.1	8727.2	2342.4	2267.8	2647.4	3036.7	3072.4	3098.3	3104.8
19942.8	70°	19595.7	17032.7	5690.5	1868.7	1901.2	2293.7	2689.5	2725.2	2747.9	2773.9
17305.2	72.5°	15274.3	12523.1	3257.3	1511.9	1580.0	1988.8	2345.6	2387.8	2400.8	2449.5
12042.9	75°	*9308.0*	*7364.6*	*1758.4*	*1190.7*	*1297.7*	*1700.0*	*2005.0*	*2053.7*	*2076.4*	*2134.8*
5914.4	77.5°	4425.3	3189.2	1002.5	927.9	1044.7	1388.6	1693.5	1748.7	1687.0	1719.5
1631.9	80°	1495.6	1184.2	632.6	707.3	798.1	1083.6	1356.1	1411.3	1281.5	1275.0
541.8	82.5°	522.3	480.2	402.3	470.4	515.8	775.4	1025.2	1096.6	953.8	950.6
243.3	85°	204.4	194.7	223.9	256.3	308.2	476.9	674.8	710.5	587.2	473.7
71.4	87.5°	42.2	45.4	55.2	58.4	94.1	165.5	243.3	298.5	236.8	201.1
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°
6994.8
7257.5
7640.4
8081.6
8584.5
9158.7
9866.0
10634.9
11053.4
10836.0
10252.1
9658.3
9139.3
8642.9
8107.6
7536.6
7030.4
6913.6
6602.2
6057.1
5181.2
4464.2
4220.9
4023.0
3919.1
3692.0
3429.2
3111.3
2786.9
2468.9
2141.3
1693.5
1262.0
905.2
467.2
184.9
0.0

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