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: P944415

Luminaire Tested: **GALN-SB9B-835-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:	P944415
	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-SB9B-835-U-T2
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	47137 lumens
Efficiency:	N/A
Efficacy:	143.1 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):	329.5
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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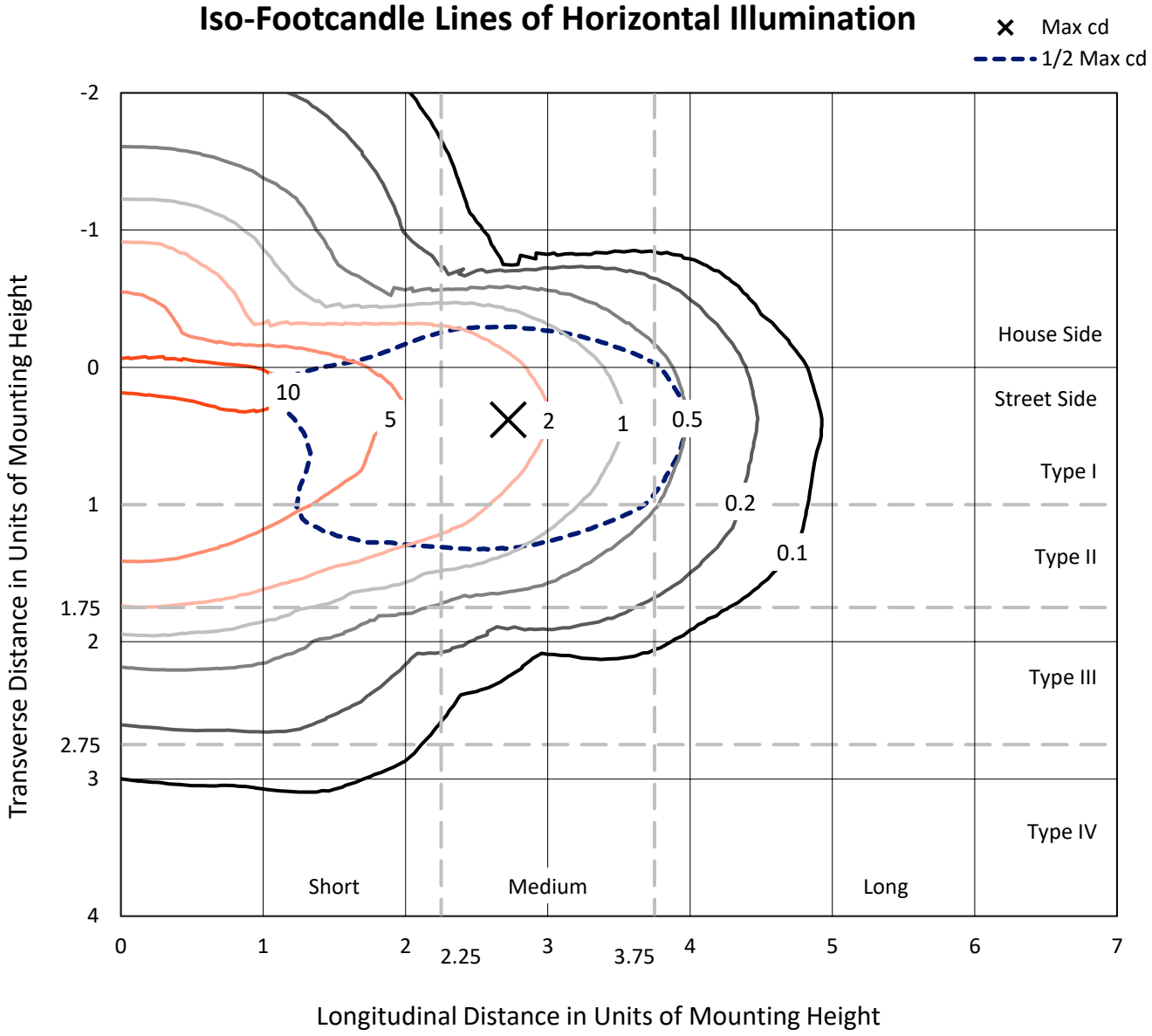
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
Type II - Medium - N/A

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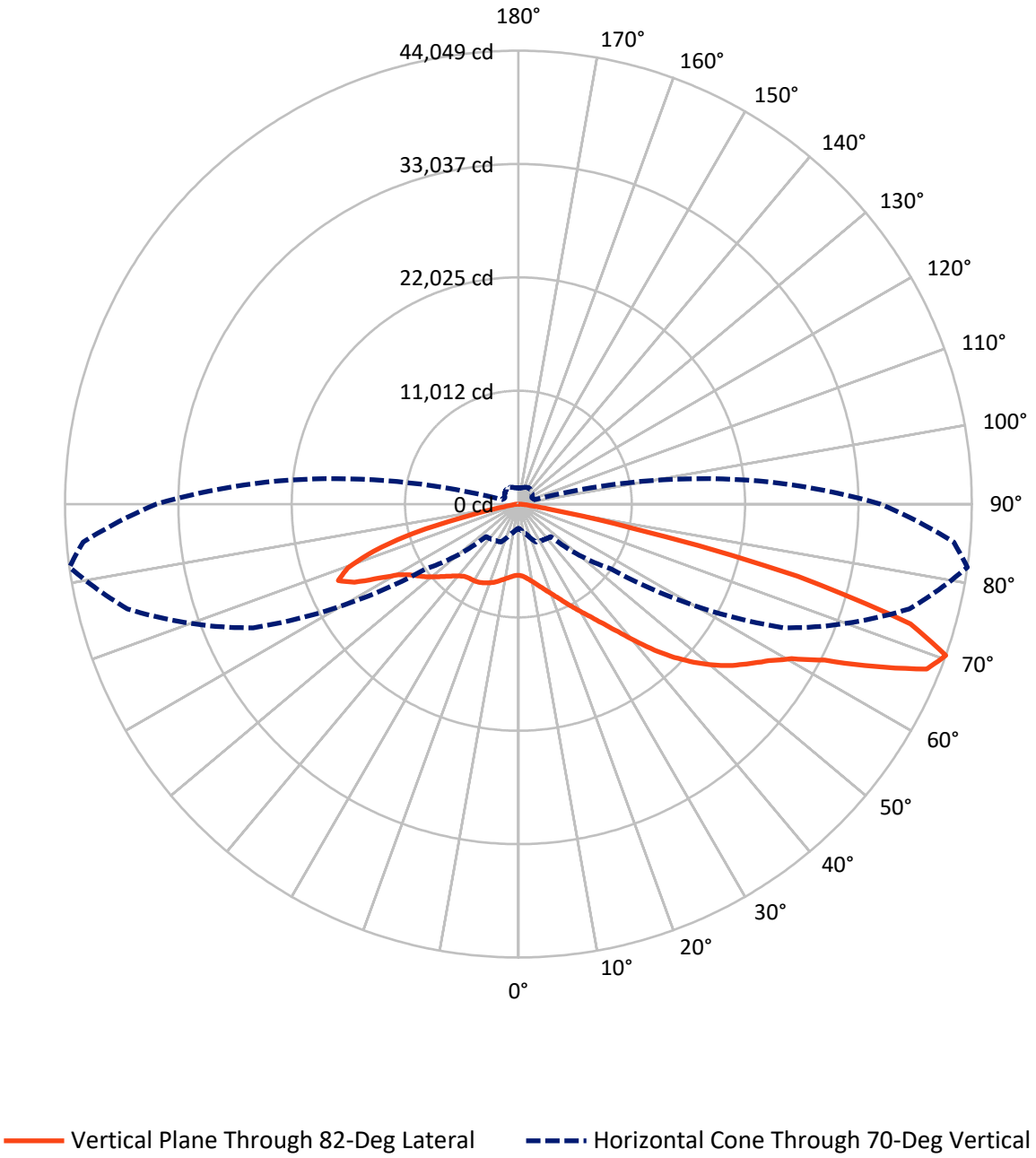
Luminous Intensity Polar Plot



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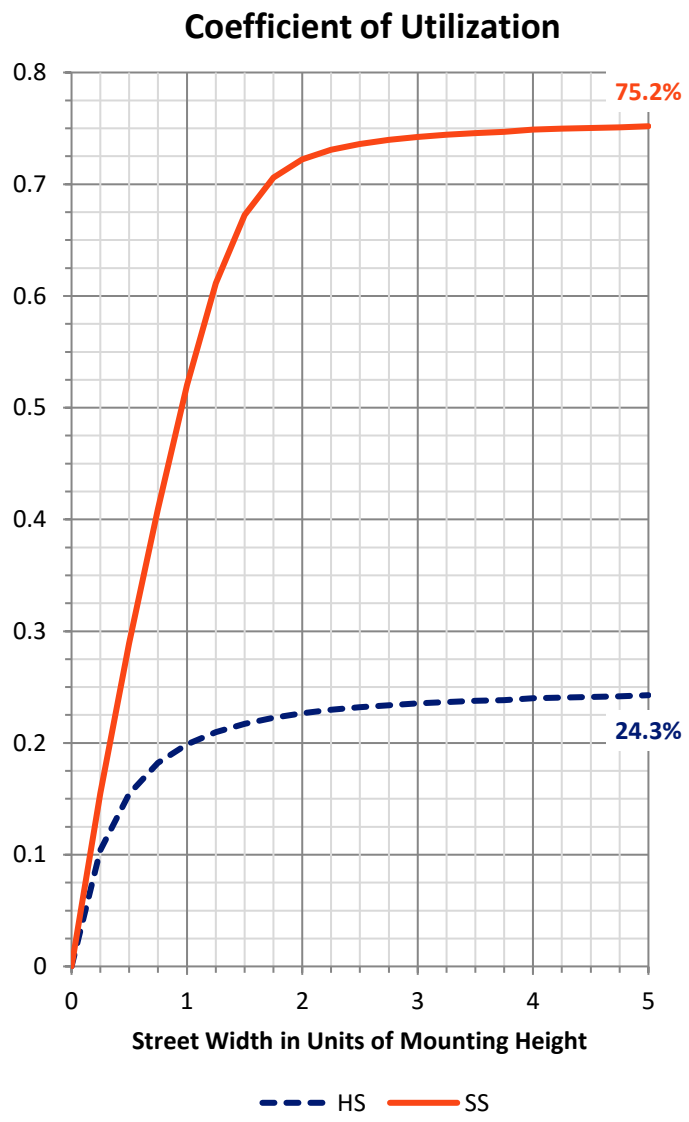
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11620.4	0.0	11620.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	35516.6	0.0	35516.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	47137.0	0.0	47137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.5	1.4
10°-20°	1874.7	4.0
20°-30°	3136.2	6.7
30°-40°	4899.5	10.4
40°-50°	7803.1	16.6
50°-60°	10858.9	23.0
60°-70°	11358.9	24.1
70°-80°	5936.8	12.6
80°-90°	616.5	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°	47137.0	100.0
0°-180°	47137.0	100.0



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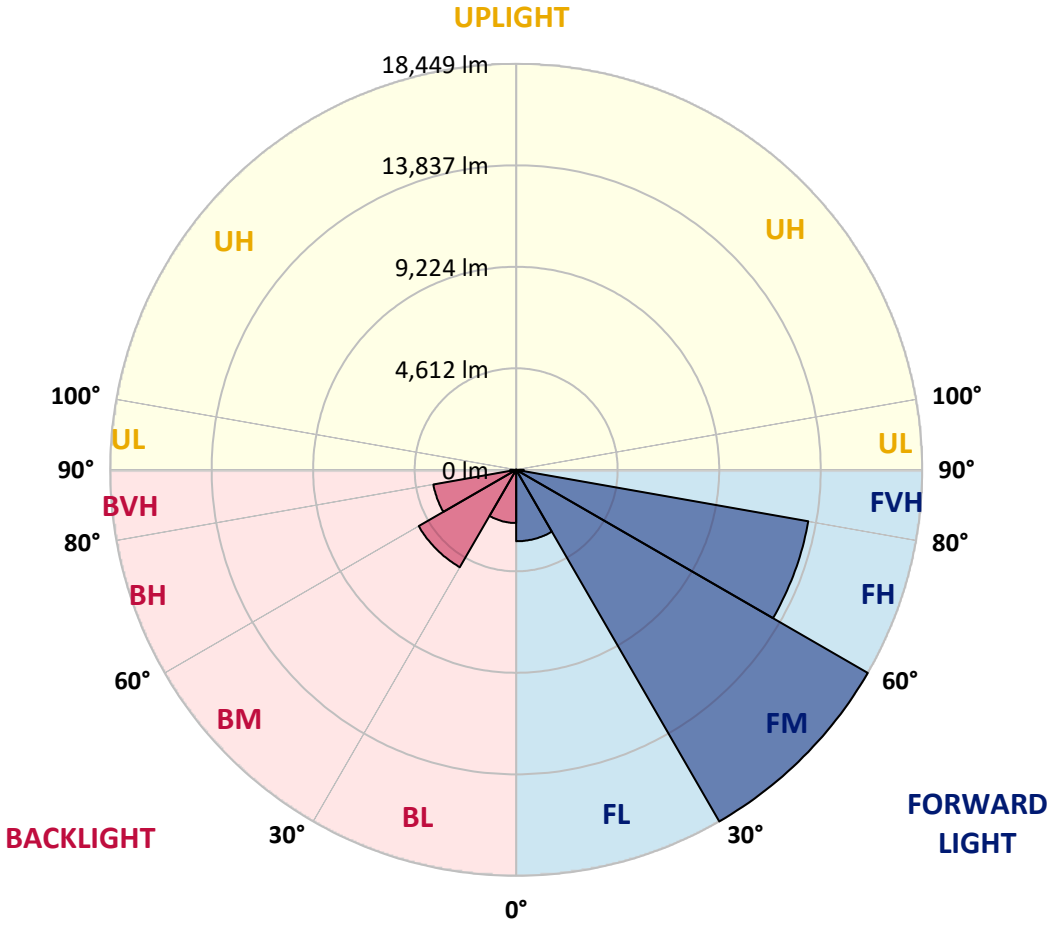
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3245.9	6.9			
FM	(30°-60°)	18448.9	39.1			
FH	(60°-80°)	13476.6	28.6			G5
FVH	(80°-90°)	345.1	0.7			G3/500
BL	(0°-30°)	2417.5	5.1	B3/2500		
BM	(30°-60°)	5112.5	10.8	B4/8500		
BH	(60°-80°)	3819.1	8.1	B4/5000		G4/5000
BVH	(80°-90°)	271.4	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°	6910.9	6910.9	6910.9	6910.9	6910.9	6910.9	6910.9	6910.9	6910.9	*6910.9*
2.5°	7076.0	7116.0	7103.5	7091.0	7091.0	7073.5	7071.0	7045.9	7025.9	*6993.4*
5°	7166.0	7208.5	7203.5	7213.5	7246.0	7253.5	7261.0	7246.0	7206.0	*7166.0*
7.5°	7086.0	7133.5	7148.5	7208.5	7308.6	7398.6	7466.1	7493.7	7456.1	*7398.6*
10°	6815.8	6868.4	6920.9	7063.4	7241.0	7453.6	7633.7	7741.3	7733.8	*7678.7*
12.5°	6268.1	6323.1	6435.6	6713.3	7038.4	7413.6	7748.8	7973.9	8051.4	*8011.4*
15°	5830.3	5877.9	5962.9	6248.1	6670.8	7241.0	7791.3	8229.0	8426.6	*8404.1*
17.5°	5817.8	5837.8	5890.4	6025.4	6350.6	6970.9	7746.3	8479.1	8856.8	*8854.3*
20°	6037.9	6045.5	6075.5	6103.0	6288.1	6765.8	7631.2	8686.7	9339.6	*9339.6*
22.5°	6343.1	6338.1	6368.1	6343.1	6433.1	6748.3	7558.7	8869.3	9877.3	*9917.3*
25°	6800.8	6775.8	6768.3	6710.8	6728.3	6910.9	7638.7	9076.9	10515.1	*10597.7*
27.5°	7411.1	7371.1	7343.6	7211.0	7166.0	7246.0	7883.8	9327.1	11225.5	*11368.0*
30°	8206.5	8134.0	8094.0	7863.8	7701.3	7713.8	8254.0	9659.7	11968.3	*12198.5*
32.5°	9292.0	9179.5	9071.9	8694.2	8396.6	8299.1	8731.8	10119.9	12773.7	*13141.4*
35°	10507.6	10417.6	10302.5	9719.7	9262.0	9036.9	9377.1	10762.8	13716.7	*14299.5*
37.5°	11678.2	11600.7	11655.7	10870.3	10280.0	9952.4	10222.5	11625.7	14879.8	*15740.2*
40°	12888.8	12828.8	12836.3	12085.9	11398.1	11030.4	11248.0	12708.7	16212.9	*17453.5*
42.5°	14204.4	14159.4	14009.3	13344.0	12571.1	12228.5	12428.6	13959.3	17643.6	*19404.5*
45°	15677.7	15650.1	15510.1	14747.2	13861.8	13476.6	13746.7	15340.0	19081.8	*21240.4*
47.5°	16950.8	16973.3	16955.8	16313.0	15395.0	14829.7	15152.4	16780.7	20420.0	*22966.2*
50°	17563.6	17681.1	17853.7	17653.6	17083.3	16508.1	16570.6	18171.4	21695.6	*24584.5*
52.5°	17243.4	17466.0	17936.3	18256.4	18476.5	18356.5	18188.9	19552.0	22896.2	*26045.2*
55°	16050.3	16363.0	17143.4	17916.2	19039.3	19912.2	20132.3	21082.8	24066.7	*27330.8*
57.5°	13876.8	14384.5	15084.9	16648.1	18539.1	20665.1	22398.4	23206.3	25307.4	*28704.0*
60°	10150.0	10830.3	11700.7	14026.8	16788.2	20262.4	24326.9	26467.9	27070.7	*30482.4*
62.5°	6495.7	6915.9	7716.3	9907.3	13081.4	18198.9	24917.2	30544.9	30059.7	*33398.8*
65°	4447.2	4717.3	5450.2	6680.8	8456.6	13546.6	23336.4	33601.4	34807.0	*38021.1*
67.5°	3231.6	3436.7	4062.0	5140.0	5510.2	8016.4	18108.8	33461.3	39421.7	*42783.4*
70°	*2356.2*	*2501.2*	*3026.5*	*4062.0*	*4239.6*	*4459.7*	*10970.4*	*28443.9*	*39321.7*	*44049.0*
72.5°	1745.9	1845.9	2198.6	3151.5	3431.7	3011.5	5430.2	20672.6	33789.0	*39841.9*
75°	1263.1	1338.2	1598.3	2411.2	2746.3	2293.6	2708.8	12080.9	23569.0	*28026.2*
77.5°	965.5	1023.0	1193.1	1765.9	2198.6	1720.8	1680.8	5557.7	11175.5	*11230.5*
80°	775.4	812.9	905.4	1243.1	1685.8	1288.1	1095.5	2243.6	3531.7	*2989.0*
82.5°	570.3	632.8	765.4	872.9	1205.6	887.9	667.8	1133.1	1343.2	*1155.6*
85°	325.2	367.7	462.7	625.3	770.4	542.8	382.7	502.7	625.3	*512.8*
87.5°	115.1	150.1	162.6	245.1	335.2	225.1	147.6	145.1	205.1	*152.6*
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°
6910.9	0°	6910.9	6910.9	6910.9	6910.9	6910.9	6910.9	6910.9	6910.9	6910.9	6910.9
6985.9	2.5°	6960.9	6948.4	6898.4	6830.8	6760.8	6693.3	6670.8	6623.2	6590.7	6573.2
7148.5	5°	7101.0	7060.9	6943.4	6793.3	6635.7	6465.7	6345.6	6235.5	6155.5	6080.5
7371.1	7.5°	7301.1	7231.0	7028.4	6765.8	6485.7	6203.0	5992.9	5832.8	5725.3	5655.3
7631.2	10°	7533.7	7426.1	7116.0	6723.3	6290.6	5885.4	5637.8	5500.2	5432.7	5395.1
7928.9	12.5°	7801.3	7648.7	7206.0	6625.7	5992.9	5530.2	5360.1	5320.1	5322.6	5325.1
8304.1	15°	8131.5	7918.9	7278.6	6413.1	5605.2	5257.6	5227.6	5292.6	5360.1	5392.6
8729.3	17.5°	8504.2	8204.0	7291.1	6063.0	5225.1	5082.5	5177.5	5317.6	5420.1	5465.2
9204.5	20°	8904.3	8494.1	7201.0	5567.7	4912.4	4939.9	5110.0	5290.1	5402.6	5460.2
9747.3	22.5°	9362.1	8804.3	6985.9	5047.5	4657.3	4784.8	4984.9	5160.0	5277.6	5335.1
10385.1	25°	9884.8	9152.0	6648.2	4609.8	4437.2	4609.8	4809.8	4954.9	5050.0	5102.5
11097.9	27.5°	10465.1	9514.6	6198.0	4262.1	4244.6	4429.7	4594.7	4707.3	4757.3	4797.3
11855.8	30°	11047.9	9844.8	5652.8	3999.5	4077.0	4252.1	4369.6	4419.7	4434.7	4442.2
12701.2	32.5°	11678.2	10129.9	5080.0	3781.8	3916.9	4079.5	4149.5	4172.0	4102.0	4054.5
13726.7	35°	12441.1	10435.1	4519.7	3609.3	3759.3	3899.4	3921.9	3901.9	3819.4	3721.8
15012.3	37.5°	13384.0	10815.3	4072.0	3486.7	3611.8	3704.3	3676.8	3671.8	3679.3	3564.2
16558.1	40°	14539.6	11310.5	3744.3	3391.7	3491.7	3511.7	3434.2	3476.7	3514.2	3339.1
18253.9	42.5°	15822.7	11908.3	3536.7	3326.6	3391.7	3344.1	3224.1	3271.6	3266.6	3036.5
19957.2	45°	17130.9	12558.6	3464.2	3279.1	3299.1	3204.1	3071.5	3084.0	2979.0	2771.4
21590.5	47.5°	18431.5	13256.5	3509.2	3239.1	3184.1	3076.5	2974.0	2918.9	2763.8	2608.8
23156.3	50°	19707.1	13989.3	3674.3	3159.0	3026.5	2963.9	2888.9	2791.4	2626.3	2493.7
24637.0	52.5°	20890.2	14727.2	3859.4	3026.5	2828.9	2866.4	2818.9	2706.3	2543.7	2408.7
26037.7	55°	22010.7	15465.0	3931.9	2843.9	2643.8	2781.4	2753.8	2546.2	2351.1	2241.1
27503.4	57.5°	23231.3	16353.0	3851.9	2611.3	2493.7	2683.8	2578.8	2348.6	2236.1	2153.6
29411.9	60°	24922.2	17746.2	3679.3	2323.6	2351.1	2538.7	2358.7	2263.6	2141.0	2048.5
32273.3	62.5°	27731.0	20344.9	3401.7	2038.5	2183.6	2323.6	2253.6	2158.6	2033.5	1943.4
37165.6	65°	31883.1	23956.7	2878.9	1815.9	1996.0	2113.5	2141.0	2046.0	1915.9	1820.9
41452.7	67.5°	35384.8	26222.8	2178.6	1630.8	1803.4	1943.4	2021.0	1928.4	1790.9	1698.3
42455.7	70°	*35192.2*	*24577.0*	*1663.3*	*1448.2*	*1633.3*	*1775.9*	*1875.9*	*1803.4*	*1655.8*	*1568.3*
38563.8	72.5°	31257.8	20560.0	1345.7	1263.1	1460.7	1600.8	1720.8	1665.8	1515.7	1430.7
28251.3	75°	22963.7	14594.6	1075.5	1075.5	1245.6	1418.2	1550.8	1515.7	1378.2	1318.1
11860.8	77.5°	9679.7	6123.0	842.9	892.9	1035.5	1218.1	1383.2	1395.7	1275.6	1350.7
3136.5	80°	2573.8	1688.3	642.8	702.8	812.9	1005.5	1203.1	1198.1	1068.0	998.0
1165.6	82.5°	980.5	665.3	457.7	495.2	587.8	770.4	953.0	983.0	852.9	737.9
457.7	85°	377.7	285.1	282.6	297.6	342.7	510.2	720.4	745.4	642.8	545.3
127.6	87.5°	97.5	85.0	105.1	100.0	157.6	272.6	412.7	427.7	392.7	227.6
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°
6910.9
6593.2
6110.5
5670.3
5405.1
5330.1
5390.1
5475.2
5475.2
5350.1
5117.5
4812.3
4459.7
4069.5
3726.8
3571.7
3344.1
3034.0
2778.9
2608.8
2483.7
2411.2
2231.1
2146.0
2043.5
1943.4
1825.9
1700.8
1575.8
1430.7
1300.6
1225.6
928.0
737.9
562.8
325.2
0.0

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