

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: P458044

Luminaire Tested: **GALN-SA9B-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41948 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 364
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

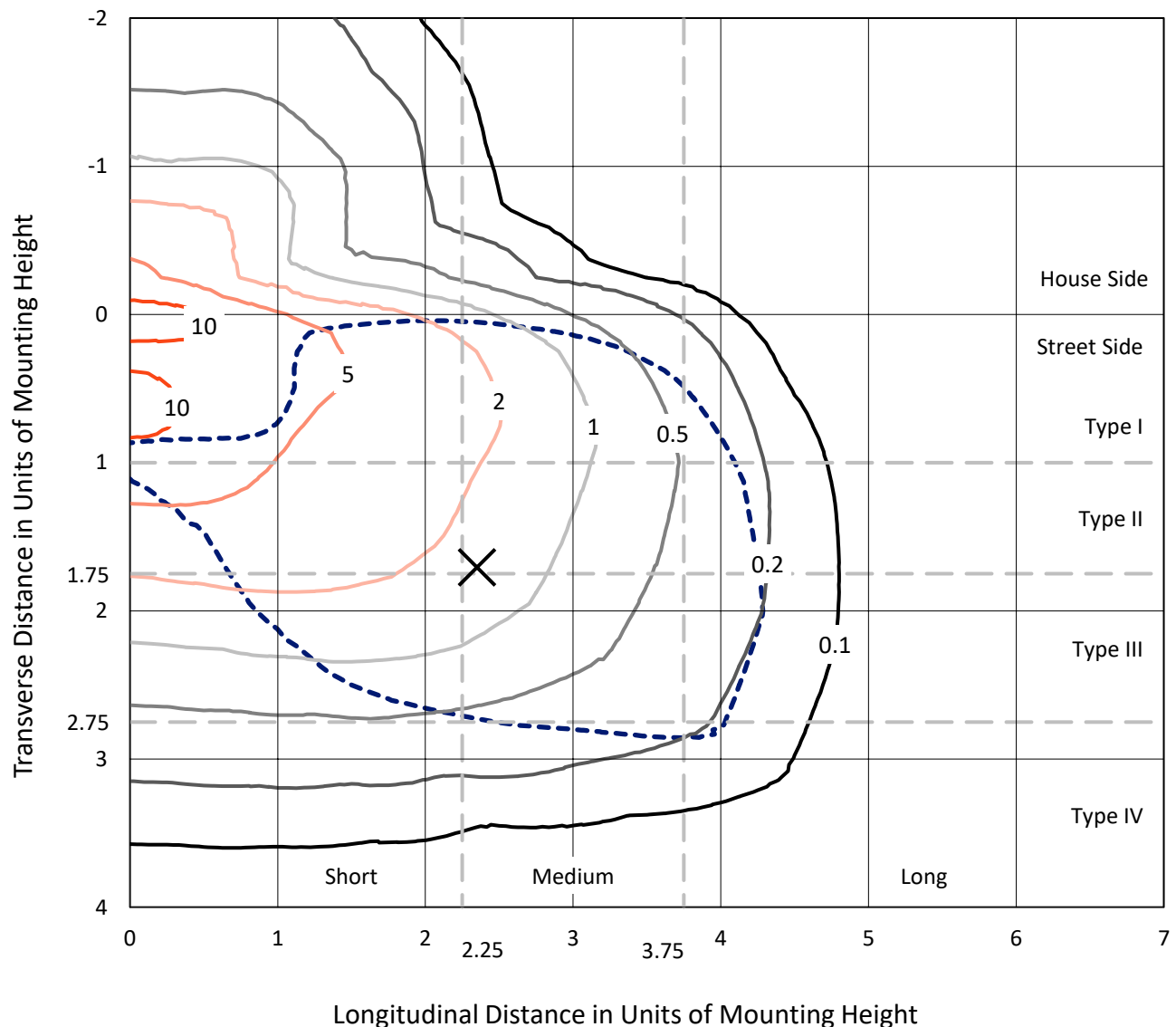


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

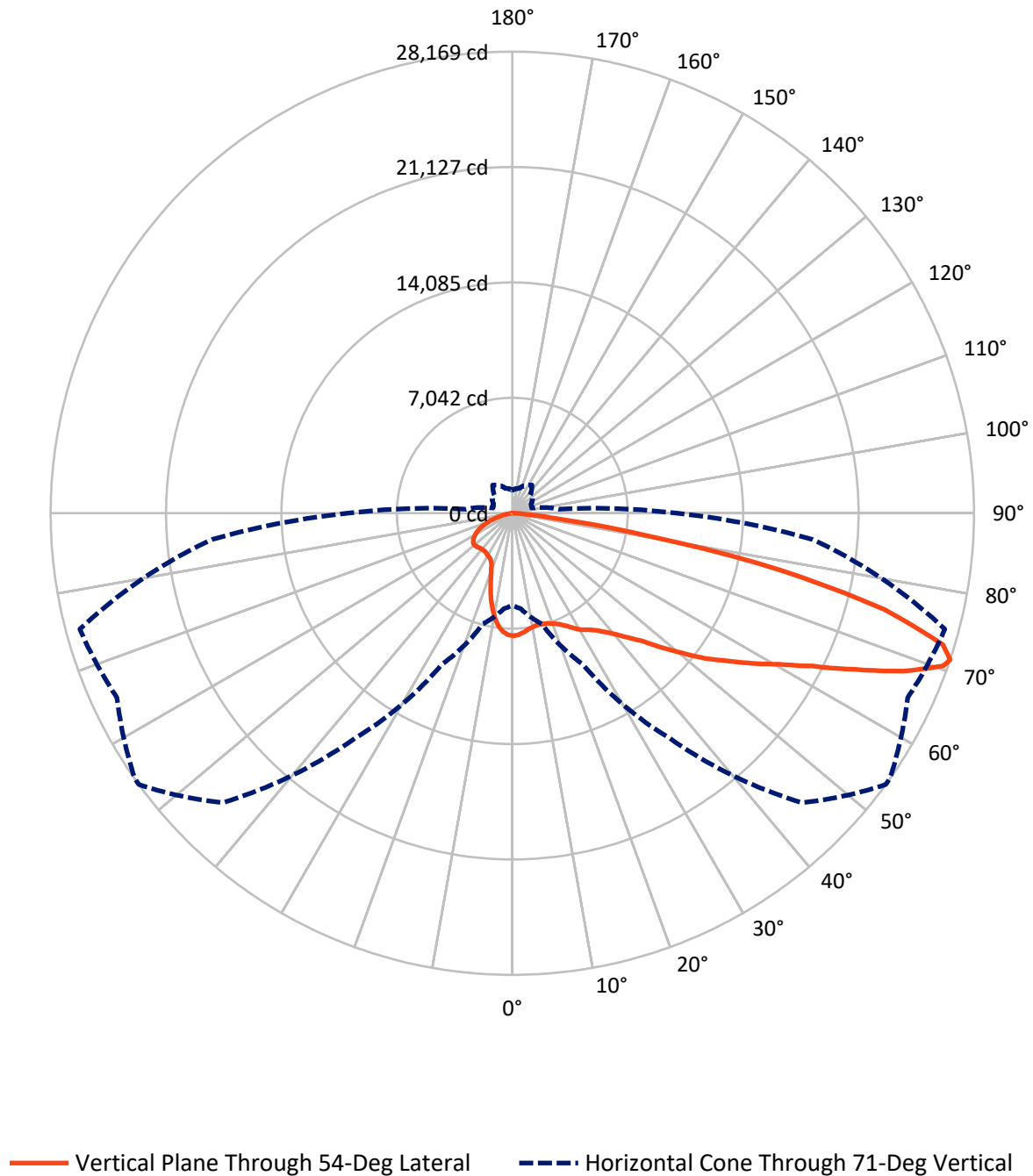


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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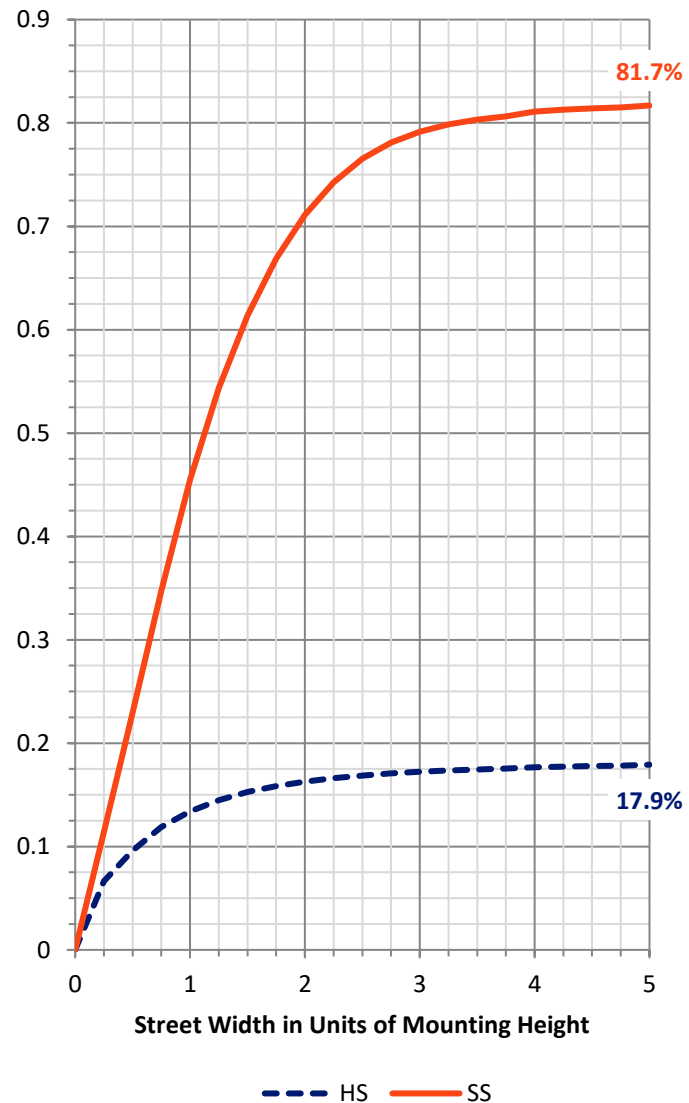
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7573.4	0.0	7573.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	34374.6	0.0	34374.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	41948.0	0.0	41948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.0	1.6
10°-20°	1761.1	4.2
20°-30°	2932.3	7.0
30°-40°	4335.9	10.3
40°-50°	6107.2	14.6
50°-60°	8177.9	19.5
60°-70°	10307.6	24.6
70°-80°	7040.0	16.8
80°-90°	619.1	1.5
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°	41948.0	100.0
0°-180°	41948.0	100.0

Coefficient of Utilization



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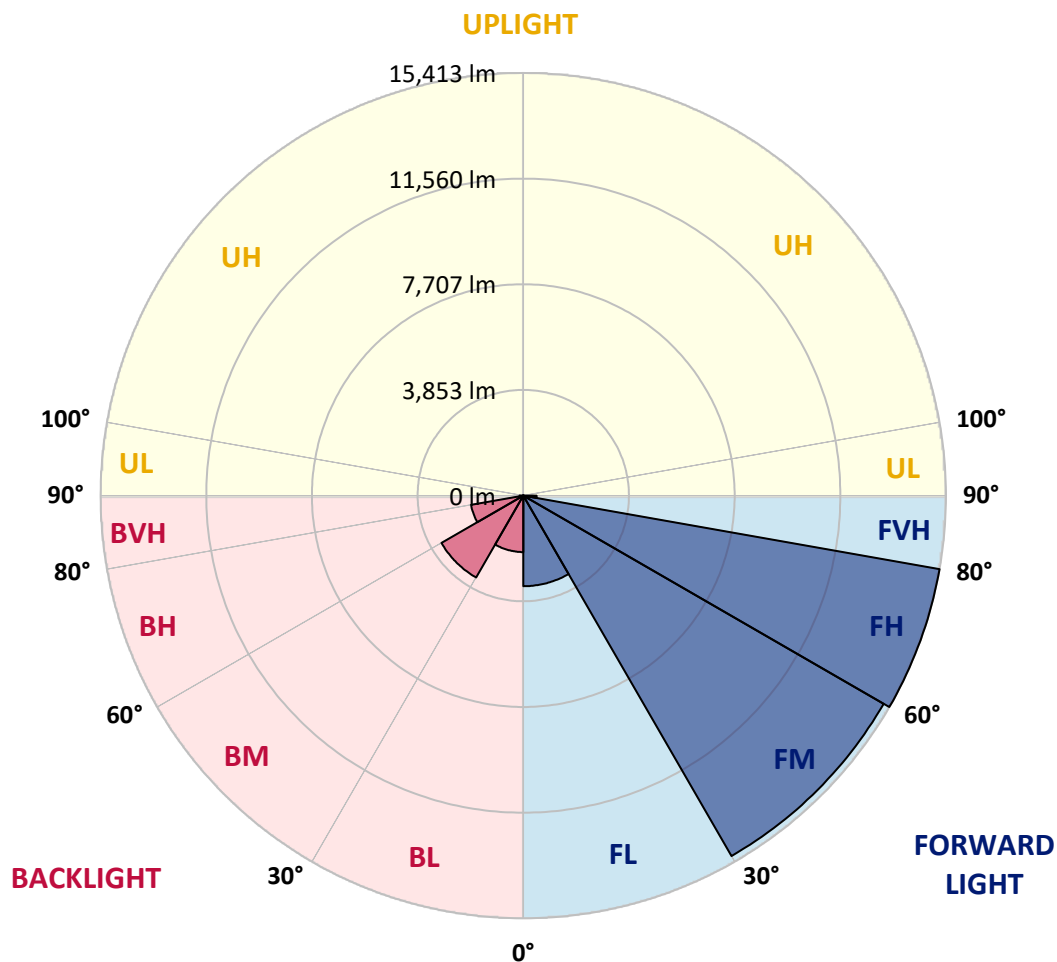
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3302.0	7.9			
FM	(30°-60°)	15175.3	36.2			
FH	(60°-80°)	15413.3	36.7			G5
FVH	(80°-90°)	483.9	1.2			G3/500
BL	(0°-30°)	2058.3	4.9	B3/2500		
BM	(30°-60°)	3445.7	8.2	B3/5000		
BH	(60°-80°)	1934.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	135.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1
2.5°	7230.4	7264.4	7273.4	7296.1	7343.7	7382.2	7420.7	7416.2	7470.5	7493.2	7513.6
5°	6908.6	6917.7	6951.7	6997.0	7080.8	7187.3	7291.5	7293.8	7427.5	7534.0	7586.1
7.5°	6673.0	6702.4	6725.1	6772.7	6861.0	6976.6	7142.0	7155.6	7393.5	7604.2	7715.3
10°	6518.9	6552.9	6577.8	6636.7	6725.1	6854.2	7033.2	7058.2	7368.6	7715.3	7910.1
12.5°	6378.4	6412.4	6435.0	6512.1	6627.6	6786.3	6987.9	7017.4	7377.6	7844.4	8123.1
15°	6464.5	6491.7	6482.6	6505.3	6582.3	6763.6	7006.0	7035.5	7411.6	7969.0	8333.8
17.5°	6847.4	6870.1	6795.3	6709.2	6673.0	6806.7	7062.7	7094.4	7479.6	8098.2	8549.1
20°	7411.6	7472.8	7309.7	7117.1	6942.6	6960.7	7180.5	7214.5	7574.8	8227.3	8768.9
22.5°	8145.8	8191.1	7991.7	7674.5	7352.7	7187.3	7357.3	7377.6	7717.5	8395.0	9009.1
25°	9009.1	9036.3	8759.8	8352.0	7887.5	7574.8	7599.7	7636.0	7953.2	8585.4	9222.1
27.5°	9847.4	9933.5	9614.1	9115.6	8503.8	7982.6	7932.8	7955.4	8209.2	8691.8	9369.3
30°	10842.2	10835.4	10497.7	9919.9	9136.0	8426.7	8247.7	8243.2	8347.4	8744.0	9475.8
32.5°	11635.2	11728.1	11397.3	10767.4	9858.8	8886.7	8465.3	8456.2	8453.9	8834.6	9634.4
35°	12537.0	12550.6	12247.0	11612.5	10640.5	9464.5	8768.9	8723.6	8671.5	9029.5	9849.7
37.5°	13343.7	13407.1	13128.4	12416.9	11408.6	10065.0	9185.8	9156.4	8997.7	9367.1	10194.1
40°	13973.6	14021.2	13853.5	13176.0	12165.4	10713.0	9716.0	9661.6	9469.0	9919.9	10654.1
42.5°	14179.8	14277.2	14342.9	14009.8	13035.5	11481.1	10368.6	10300.6	10153.3	10758.3	11184.3
45°	14195.6	14349.7	14696.4	14712.2	13910.1	12401.1	11129.9	11082.3	11071.0	11832.3	11929.8
47.5°	14075.5	14231.9	14814.2	15129.2	14689.6	13330.1	12228.9	12154.1	12160.9	13160.1	12765.9
50°	13785.5	13971.3	14678.3	15396.5	15299.1	14295.3	13389.0	13364.1	13504.5	14676.0	13633.7
52.5°	13239.4	13463.8	14537.8	15564.2	15752.3	15126.9	14707.7	14637.5	14993.2	16321.0	14583.1
55°	11728.1	12065.7	14023.4	15657.1	16182.8	15922.2	15895.0	16021.9	16493.2	18115.6	15627.7
57.5°	10939.6	11193.4	12906.4	15673.0	16726.6	16846.7	17281.7	17313.5	18138.2	20021.2	16808.2
60°	10509.1	10733.4	12294.6	15568.7	17485.7	17990.9	18700.2	18813.5	19744.7	22085.4	18031.7
62.5°	10132.9	10325.5	11927.5	15208.5	18342.2	19688.1	20537.8	20592.2	21568.7	24364.8	19239.4
65°	9247.0	9466.8	11188.8	14848.2	19080.8	21808.9	22975.8	22912.4	23510.6	26331.6	19996.2
67.5°	8052.9	8331.6	9808.9	13604.2	19445.6	24126.9	25722.1	25642.8	25427.5	27620.9	20213.8
70°	6528.0	6677.5	8043.8	11453.9	17988.7	25343.7	27890.5	27806.7	26614.8	27790.8	19185.1
71°	5617.1	5850.5	7003.8	10173.7	16776.4	24972.1	28169.2	28146.5	26617.1	27321.8	18410.1
72.5°	4384.4	4527.2	5546.8	7882.9	14259.1	22860.3	27480.4	27566.5	26039.3	26018.9	16812.7
75°	2773.4	2836.9	3480.4	4640.5	7824.0	16189.6	23458.5	23691.9	23120.9	21296.8	12503.0
77.5°	1611.0	1692.6	2084.6	2734.9	3380.7	8787.0	16785.5	17039.3	16065.0	11725.8	5118.6
80°	938.1	1028.7	1373.1	1588.4	1552.1	3260.6	8546.8	8979.6	6956.2	2961.5	1436.6
82.5°	521.1	582.3	965.3	967.5	827.0	1065.0	2689.6	2814.2	1984.9	1194.1	586.9
85°	378.4	428.2	623.1	564.2	396.5	457.7	935.8	981.1	802.1	503.0	190.3
87.5°	133.7	190.3	342.1	271.9	108.8	95.2	269.6	219.8	203.9	140.5	43.1
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1	7484.1
2.5°	7524.9	7529.5	7506.8	7466.0	7425.2	7373.1	7314.2	7268.9	7248.5	7246.2	7244.0
5°	7606.5	7617.8	7531.7	7404.8	7264.4	7092.2	6944.9	6777.2	6734.1	6666.2	6686.6
7.5°	7737.9	7731.1	7561.2	7291.5	6963.0	6598.2	6290.0	6111.0	5925.2	5873.1	5875.4
10°	7926.0	7882.9	7561.2	7060.4	6512.1	5970.5	5540.0	5268.1	5120.8	4998.5	4953.2
12.5°	8125.4	8016.6	7488.7	6736.4	5932.0	5268.1	4805.9	4438.8	4343.7	4244.0	4246.2
15°	8315.7	8134.4	7345.9	6281.0	5306.7	4518.1	4069.5	3849.7	3820.2	3831.6	3829.3
17.5°	8487.9	8218.3	7128.4	5773.4	4577.0	3874.6	3636.7	3652.6	3731.9	3788.5	3795.3
20°	8662.4	8268.1	6804.4	5093.7	3888.2	3484.9	3494.0	3618.6	3738.7	3815.7	3827.0
22.5°	8827.8	8290.8	6423.7	4436.6	3389.7	3319.5	3453.2	3586.9	3704.7	3779.5	3790.8
25°	8936.6	8238.7	5884.4	3750.0	3145.0	3260.6	3401.1	3514.4	3614.1	3691.1	3709.2
27.5°	8966.0	8071.0	5216.0	3194.9	3031.7	3203.9	3333.1	3416.9	3494.0	3566.5	3580.1
30°	8950.2	7824.0	4481.9	2868.6	2966.0	3138.2	3237.9	3299.1	3392.0	3448.6	3460.0
32.5°	8925.2	7536.3	3716.0	2694.1	2911.6	3077.0	3136.0	3190.3	3188.1	3165.4	3181.3
35°	8934.3	7191.8	3095.2	2589.9	2864.1	3031.7	3081.6	3013.6	2818.7	2809.7	2800.6
37.5°	8981.9	6852.0	2644.3	2517.4	2839.1	3024.9	3052.1	2739.4	2567.2	2487.9	2467.5
40°	9104.2	6455.4	2347.4	2463.0	2836.9	3077.0	2918.4	2601.2	2270.4	2116.3	2105.0
42.5°	9267.4	6065.7	2166.2	2429.0	2864.1	3156.3	2864.1	2406.3	2046.1	1955.4	1941.8
45°	9509.8	5619.3	2066.5	2413.1	2904.8	3185.8	2845.9	2263.6	1955.4	1882.9	1882.9
47.5°	9784.0	5193.4	2012.1	2401.8	2957.0	3165.4	2685.0	2218.3	1912.4	1921.5	1964.5
50°	10055.9	4824.0	1971.3	2376.9	3002.3	3154.1	2619.3	2216.0	1923.7	2039.3	2116.3
52.5°	10370.9	4563.4	1921.5	2336.1	3002.3	3081.6	2598.9	2261.3	1955.4	1989.4	2023.4
55°	10751.5	4481.9	1858.0	2247.7	2947.9	2900.3	2587.6	2327.0	1978.1	1898.8	1912.4
57.5°	11254.5	4613.3	1796.8	2136.7	2823.3	2712.2	2583.1	2345.2	1926.0	1860.3	1846.7
60°	11839.1	4873.9	1778.7	2023.4	2653.3	2551.4	2555.9	2293.1	1853.5	1785.5	1796.8
62.5°	12249.3	5030.2	1767.4	1937.3	2467.5	2374.6	2490.2	2229.6	1821.8	1762.8	1774.2
65°	12249.3	4839.9	1663.1	1805.9	2227.3	2161.6	2410.9	2150.3	1781.0	1713.0	1701.7
67.5°	11784.8	4284.7	1504.5	1608.8	1962.2	1919.2	2299.9	2055.1	1719.8	1667.7	1640.5
70°	10574.8	3249.2	1305.1	1377.6	1626.9	1665.4	2157.1	1926.0	1617.8	1554.4	1513.6
71°	10042.3	2830.1	1221.3	1259.8	1497.7	1554.4	2089.1	1871.6	1572.5	1481.9	1409.4
72.5°	9015.9	2383.7	1094.4	1110.3	1280.2	1382.2	1946.4	1767.4	1486.4	1357.3	1275.7
75°	6849.7	1740.2	881.4	872.4	947.1	1096.7	1647.3	1574.8	1302.9	1128.4	1080.8
77.5°	2959.2	947.1	659.4	666.2	643.5	831.6	1296.1	1352.7	1117.1	917.7	874.6
80°	897.3	546.1	450.9	460.0	430.5	557.4	913.1	1060.4	897.3	713.7	654.8
82.5°	460.0	326.3	308.2	303.6	274.2	315.0	552.9	725.1	641.2	446.4	394.3
85°	199.4	174.5	151.8	147.3	129.2	113.3	197.1	362.5	339.9	249.2	237.9
87.5°	49.8	45.3	29.5	27.2	15.9	2.3	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	0.0

(END OF REPORT)