

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: P458040

Luminaire Tested: **GALN-SA9B-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
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-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41776 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

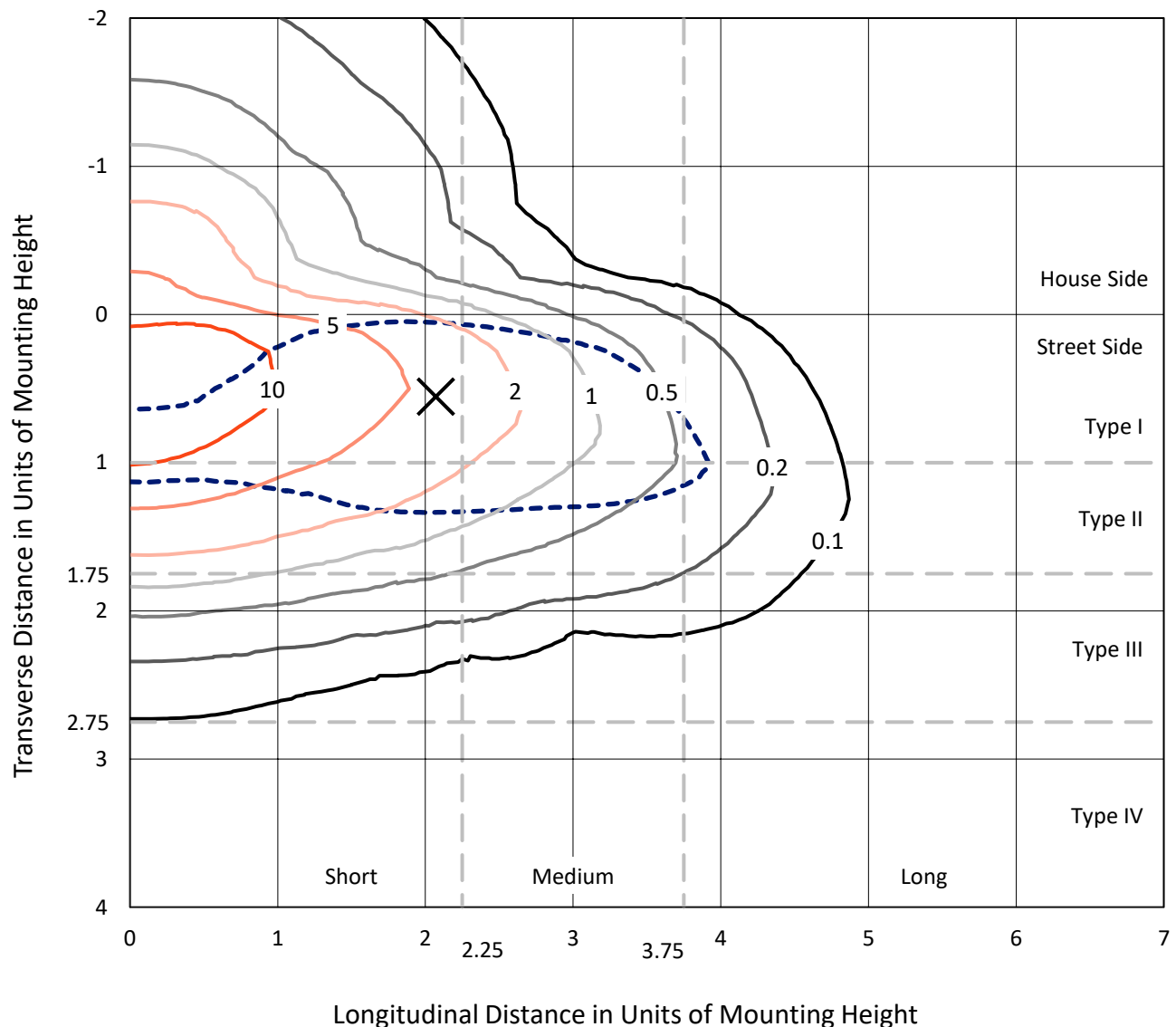


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

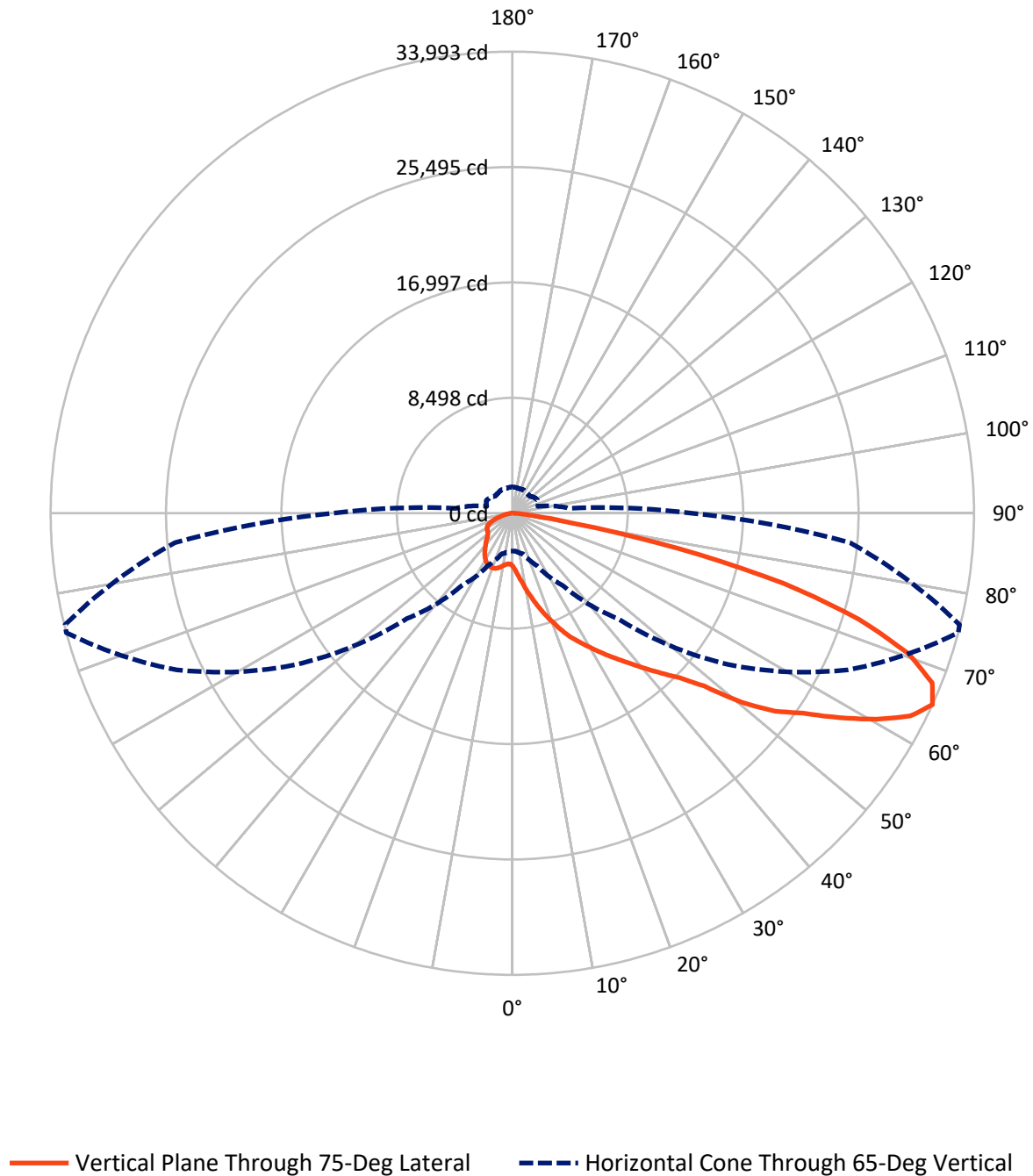


Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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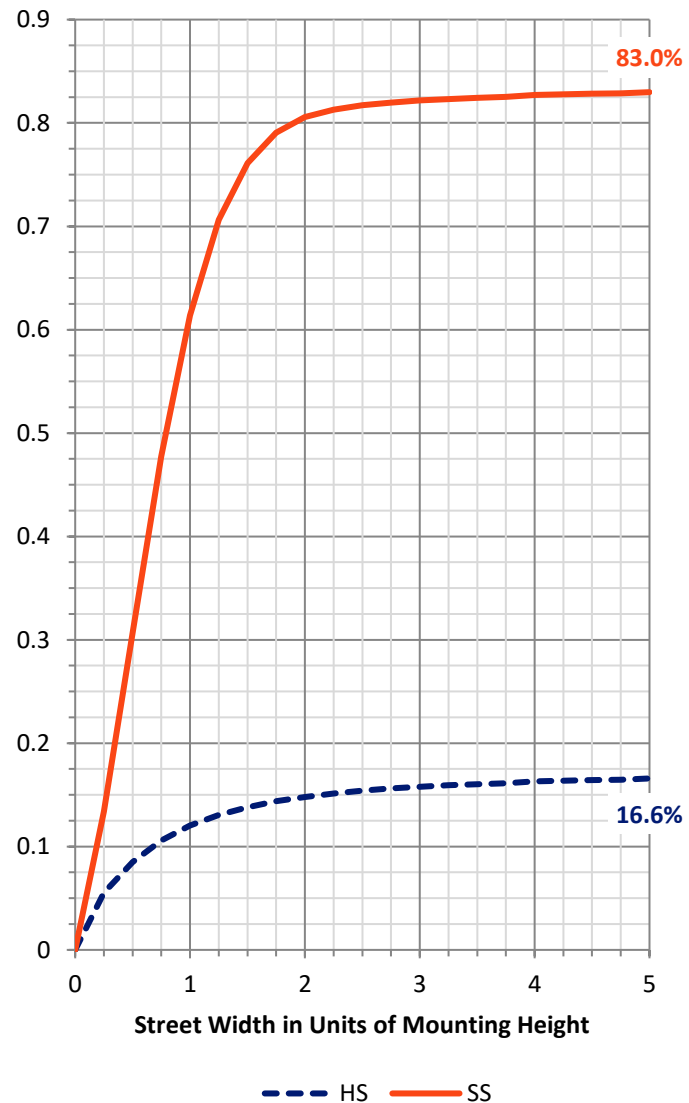
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7023.1	0.0	7023.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	34752.9	0.0	34752.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	41776.0	0.0	41776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.6	1.1
10°-20°	1847.2	4.4
20°-30°	3568.1	8.5
30°-40°	5795.7	13.9
40°-50°	7972.5	19.1
50°-60°	9412.8	22.5
60°-70°	8247.1	19.7
70°-80°	3937.2	9.4
80°-90°	523.9	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°	41776.0	100.0
0°-180°	41776.0	100.0

Coefficient of Utilization



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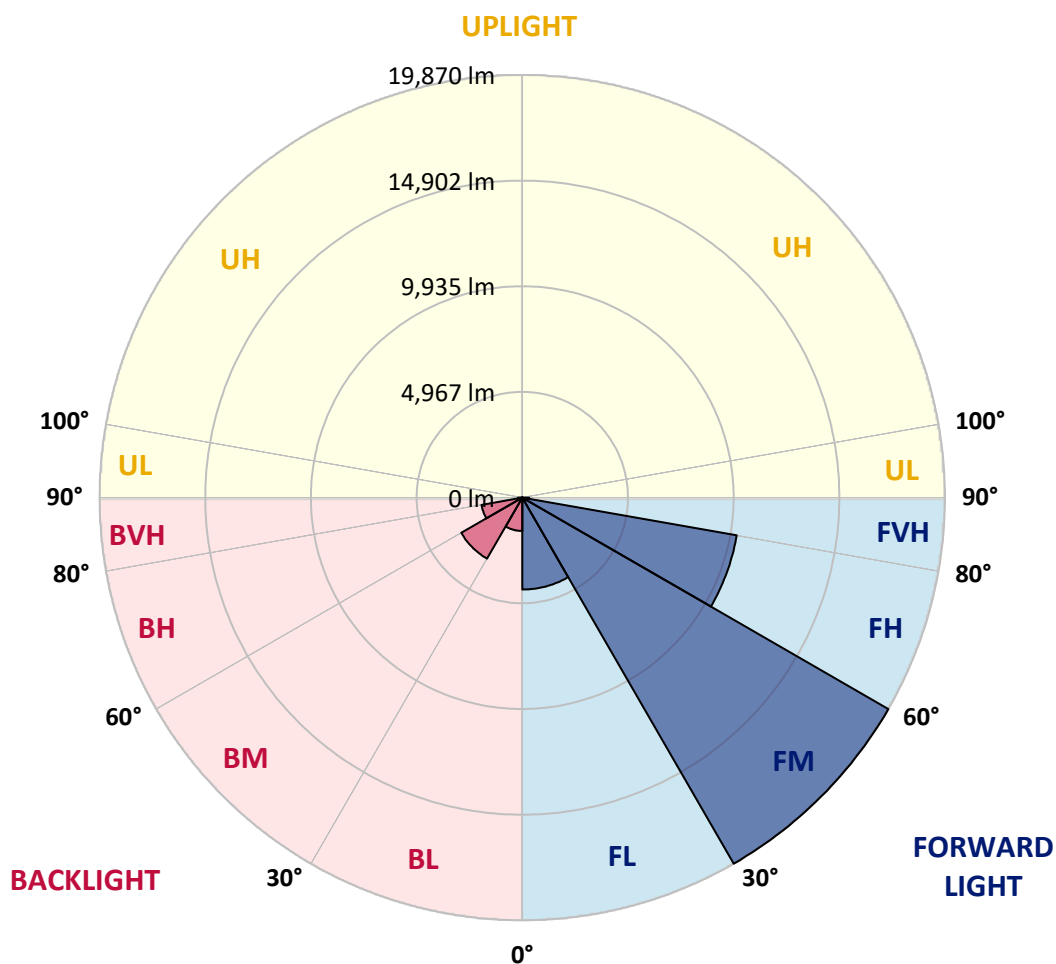
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4319.0	10.3			
FM	(30°-60°)	19869.6	47.6			
FH	(60°-80°)	10237.0	24.5			G4/12000
FVH	(80°-90°)	327.4	0.8			G3/500
BL	(0°-30°)	1567.9	3.8	B3/2500		
BM	(30°-60°)	3311.3	7.9	B3/5000		
BH	(60°-80°)	1947.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	196.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5
2.5°	5157.2	5123.2	5087.0	4987.3	4880.8	4760.7	4588.5	4423.1	4203.3	4196.5	4033.3
5°	6587.0	6564.4	6403.5	6310.6	6063.6	5735.0	5456.3	5023.5	4622.5	4574.9	4257.7
7.5°	7901.3	7812.9	7751.7	7584.0	7339.3	6917.8	6378.6	5794.0	5123.2	5059.8	4534.1
10°	8891.5	8882.4	8850.7	8705.7	8522.1	8102.9	7504.7	6666.3	5757.7	5633.1	4869.5
12.5°	9632.4	9639.2	9634.7	9632.4	9501.0	9145.2	8497.2	7613.5	6399.0	6310.6	5256.9
15°	10119.6	10187.6	10214.8	10328.1	10339.4	10101.5	9544.0	8528.9	7121.8	6990.4	5673.9
17.5°	10441.4	10475.3	10602.2	10794.8	10951.2	10908.1	10411.9	9376.4	7860.5	7640.7	6106.6
20°	10749.5	10808.4	10905.9	11168.7	11445.2	11572.0	11223.1	10244.2	8592.4	8451.9	6584.8
22.5°	11390.8	11474.6	11508.6	11642.3	11877.9	12102.3	11943.7	11075.8	9394.5	9204.2	7092.3
25°	12476.1	12564.5	12469.3	12437.6	12514.7	12625.7	12591.7	11859.8	10151.3	9879.4	7572.7
27.5°	13890.1	13901.4	13715.6	13538.9	13348.5	13291.9	13187.6	12555.5	10808.4	10581.8	8055.3
30°	15408.2	15353.9	15045.7	14726.2	14404.4	14087.2	13788.1	13226.2	11540.3	11279.7	8528.9
32.5°	16817.6	16788.2	16446.0	15949.8	15406.0	15106.9	14501.9	13903.7	12324.3	12072.8	9016.1
35°	17873.6	17916.6	17540.5	16998.9	16405.2	16140.1	15376.5	14615.2	13135.5	12861.4	9546.3
37.5°	18623.6	18600.9	18267.8	17798.8	17277.6	17046.5	16398.5	15392.4	14007.9	13745.1	10126.4
40°	18891.0	18877.4	18630.4	18288.2	17957.4	17875.8	17468.0	16230.8	15007.2	14699.0	10824.3
42.5°	18721.0	18750.5	18587.3	18494.4	18433.2	18492.2	18530.7	17329.7	16097.1	15813.8	11581.1
45°	18199.9	18184.0	18161.3	18313.2	18657.6	19045.0	19582.1	18367.5	17282.2	17055.6	12596.2
47.5°	17268.6	17381.9	17438.5	17857.7	18610.0	19527.7	20792.1	19758.8	19002.0	18804.9	14143.9
50°	15965.7	16056.3	16391.7	17137.1	18258.8	19709.0	21974.9	22033.8	21870.6	21501.3	15825.2
52.5°	13930.9	14071.4	14762.5	16128.8	17538.2	19634.2	22690.9	23984.7	24200.0	23923.6	17481.6
55°	11653.6	11850.8	12580.4	14372.7	16545.7	19226.3	23184.9	25115.4	25974.2	25718.2	19076.8
57.5°	9424.0	9632.4	10382.4	12118.1	14814.6	18324.5	23508.9	26375.3	28389.7	28056.6	21061.7
60°	7062.9	7280.4	7923.9	9711.7	12349.3	16561.6	23289.1	27467.5	30802.9	30660.1	23048.9
62.5°	4556.8	4796.9	5356.6	6836.3	9491.9	14152.9	22113.1	28070.2	32892.1	32719.9	24499.1
65°	2775.7	2802.9	3111.1	4244.1	6496.4	10958.0	19423.5	27270.3	33993.3	33941.2	24941.0
67.5°	1794.6	1837.7	1978.1	2542.4	3895.1	7611.2	15530.6	24630.5	33349.8	33331.7	24027.8
70°	1515.9	1529.5	1592.9	1715.3	2263.7	4615.7	10905.9	20422.7	30904.9	30904.9	21832.1
72.5°	1355.0	1373.1	1395.8	1434.3	1615.6	2614.9	6507.7	15897.7	26683.5	26860.2	18582.8
75°	1230.4	1225.9	1239.5	1246.3	1377.7	1708.5	3364.9	11757.9	20642.5	20289.0	13457.3
77.5°	1053.7	1060.4	1053.7	1083.1	1216.8	1300.6	1708.5	7889.9	12510.1	12052.4	6754.7
80°	865.6	876.9	888.2	906.4	1040.1	987.9	1026.5	3596.0	4627.0	4529.6	2086.9
82.5°	650.3	666.2	684.3	727.4	818.0	652.6	648.1	1536.3	1670.0	1529.5	768.1
85°	262.8	310.4	469.0	512.1	514.4	358.0	398.8	641.3	682.0	666.2	301.4
87.5°	61.2	72.5	151.8	228.9	210.7	133.7	147.3	208.5	237.9	219.8	102.0
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°	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5
2.5°	3958.6	3879.3	3743.3	3639.1	3564.3	3498.6	3457.8	3432.9	3423.8	3421.5	3423.8
5°	4092.2	3951.8	3736.5	3600.5	3525.8	3482.7	3457.8	3455.5	3457.8	3460.1	3453.3
7.5°	4275.8	4074.1	3793.1	3666.3	3609.6	3577.9	3566.6	3562.0	3564.3	3562.0	3562.0
10°	4520.5	4244.1	3904.2	3772.8	3725.2	3688.9	3670.8	3659.5	3650.4	3641.3	3636.8
12.5°	4790.2	4432.1	4024.3	3897.4	3829.4	3772.8	3732.0	3702.5	3682.1	3661.7	3657.2
15°	5091.5	4631.5	4158.0	3981.2	3883.8	3799.9	3729.7	3682.1	3645.9	3616.4	3614.1
17.5°	5379.3	4819.6	4248.6	4019.7	3877.0	3759.2	3666.3	3600.5	3555.2	3516.7	3512.2
20°	5687.5	4998.6	4289.4	3994.8	3809.0	3666.3	3543.9	3464.6	3412.5	3369.4	3362.6
22.5°	5997.9	5150.4	4284.9	3915.5	3691.2	3523.5	3394.3	3310.5	3249.3	3206.3	3190.4
25°	6294.7	5272.8	4228.2	3788.6	3528.0	3353.6	3222.1	3145.1	3090.7	3038.6	3038.6
27.5°	6562.1	5345.3	4121.7	3634.5	3360.4	3176.8	3072.6	3002.3	2952.5	2918.5	2898.1
30°	6824.9	5379.3	3976.7	3439.7	3183.6	3027.3	2943.4	2902.6	2857.3	2818.8	2814.3
32.5°	7060.6	5372.5	3795.4	3249.3	3015.9	2904.9	2870.9	2839.2	2791.6	2737.2	2723.6
35°	7289.5	5327.2	3580.2	3040.9	2875.5	2832.4	2841.5	2796.1	2710.0	2642.1	2630.7
37.5°	7538.7	5245.6	3344.5	2870.9	2757.6	2798.4	2821.1	2721.4	2580.9	2474.4	2449.5
40°	7826.5	5152.7	3099.8	2701.0	2664.7	2766.7	2766.7	2583.1	2390.5	2324.8	2306.7
42.5°	8164.1	5075.7	2895.8	2558.2	2587.7	2689.6	2678.3	2399.6	2320.3	2286.3	2277.2
45°	8698.9	5048.5	2685.1	2433.6	2524.2	2599.0	2506.1	2336.2	2290.8	2263.7	2254.6
47.5°	9544.0	5080.2	2499.3	2340.7	2451.7	2508.4	2313.5	2293.1	2261.4	2222.9	2218.3
50°	10328.1	5050.7	2367.9	2288.6	2388.3	2399.6	2234.2	2241.0	2222.9	2179.8	2170.7
52.5°	10969.3	4957.8	2284.0	2261.4	2333.9	2209.3	2159.4	2184.3	2177.5	2123.2	2114.1
55°	11674.0	4901.2	2243.3	2261.4	2297.6	2043.9	2089.2	2125.4	2116.4	2077.8	2075.6
57.5°	12528.3	4912.5	2213.8	2268.2	2261.4	1960.0	2018.9	2062.0	2059.7	2048.4	2048.4
60°	13402.9	4917.0	2168.5	2265.9	2218.3	1894.3	1946.4	2007.6	2012.1	2018.9	2018.9
62.5°	13692.9	4719.9	2080.1	2225.1	2123.2	1830.9	1878.4	1962.3	1957.8	1975.9	1978.1
65°	13151.4	4173.8	1948.7	2132.2	2000.8	1785.5	1826.3	1903.4	1878.4	1926.0	1935.1
67.5°	11970.8	3453.3	1744.8	1964.6	1864.9	1738.0	1792.3	1821.8	1776.5	1869.4	1871.6
70°	10346.2	2696.4	1486.4	1726.6	1710.8	1688.1	1765.2	1719.8	1656.4	1769.7	1747.0
72.5°	8651.3	2059.7	1187.3	1411.7	1504.6	1613.3	1717.6	1588.4	1500.0	1534.0	1493.2
75°	6498.7	1522.7	954.0	1105.8	1253.1	1506.8	1674.5	1429.8	1293.8	1262.1	1253.1
77.5°	3312.8	994.7	713.8	827.1	940.4	1361.8	1615.6	1244.0	1071.8	1021.9	999.3
80°	1182.8	618.6	503.0	571.0	634.5	1171.5	1411.7	1028.7	831.6	822.5	831.6
82.5°	548.4	398.8	337.6	373.9	376.1	781.7	1076.3	768.1	632.2	960.7	811.2
85°	235.7	199.4	190.3	185.8	172.2	349.0	605.0	412.4	643.5	287.8	265.1
87.5°	70.2	79.3	70.2	52.1	38.5	38.5	61.2	22.7	15.9	11.3	11.3
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)