

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: P458024

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
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-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41393 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

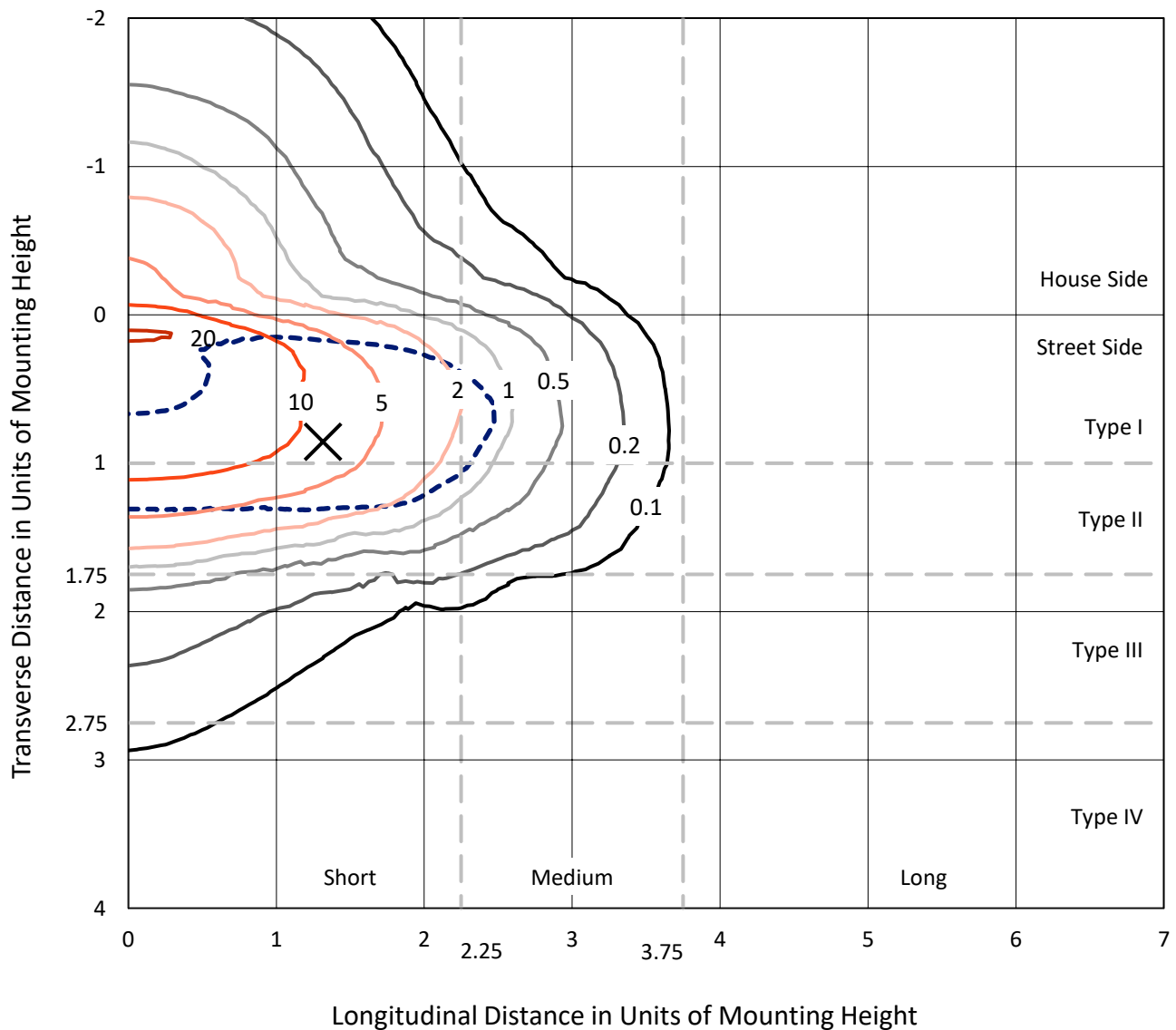


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

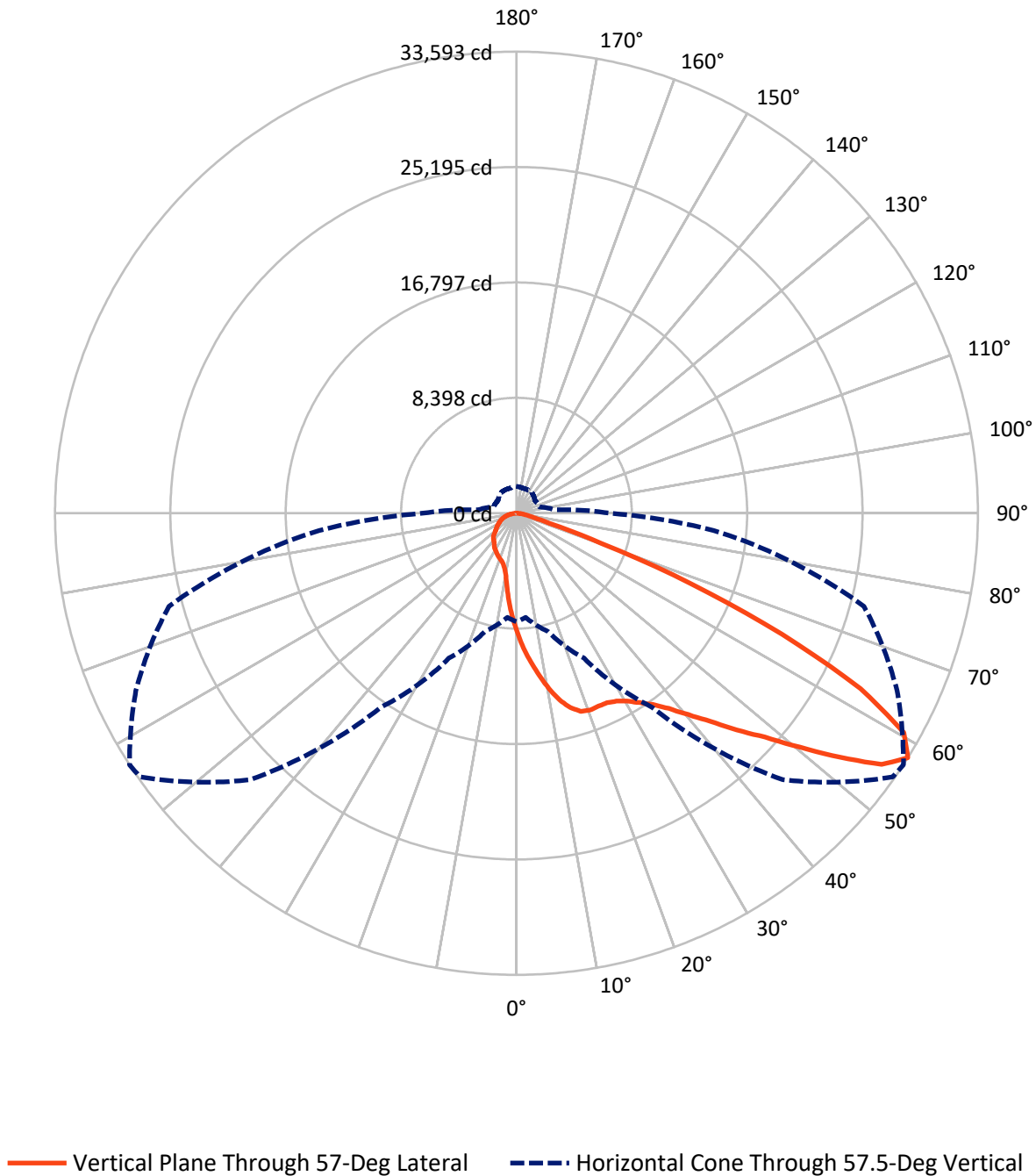


Based on 25 foot mounting height. Maximum calculated value = 21.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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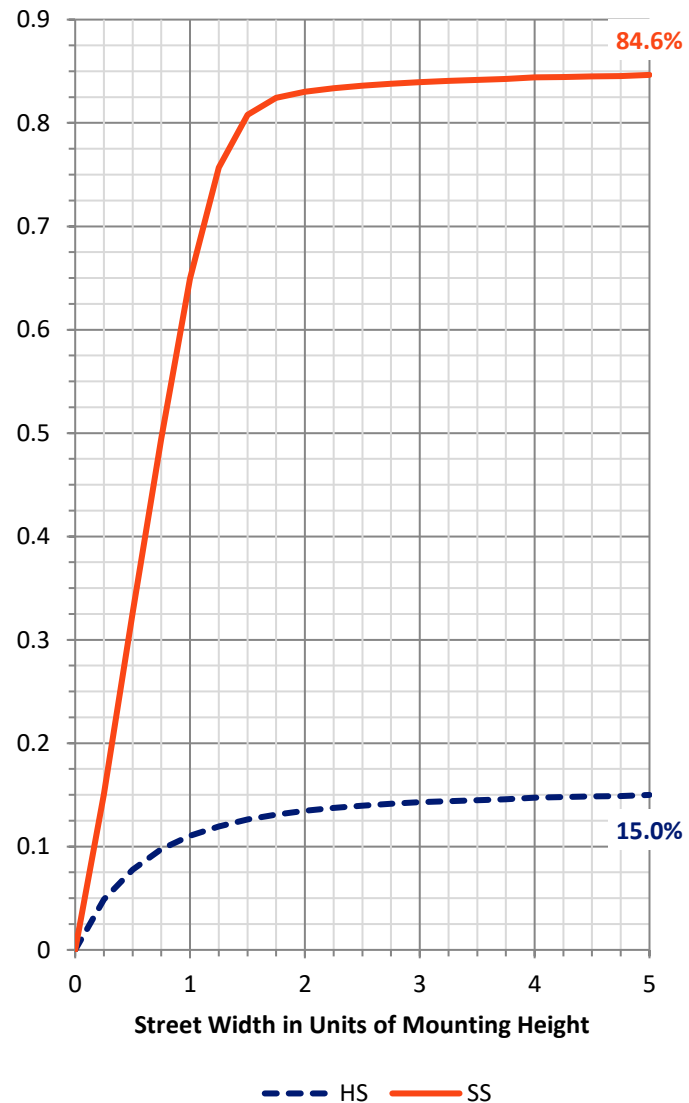
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6294.7	0.0	6294.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	35098.3	0.0	35098.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	41393.0	0.0	41393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.8	2.0
10°-20°	2463.1	6.0
20°-30°	4090.1	9.9
30°-40°	6160.8	14.9
40°-50°	9249.9	22.3
50°-60°	10367.9	25.0
60°-70°	6067.8	14.7
70°-80°	1794.8	4.3
80°-90°	362.8	0.9
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°	41393.0	100.0
0°-180°	41393.0	100.0

Coefficient of Utilization



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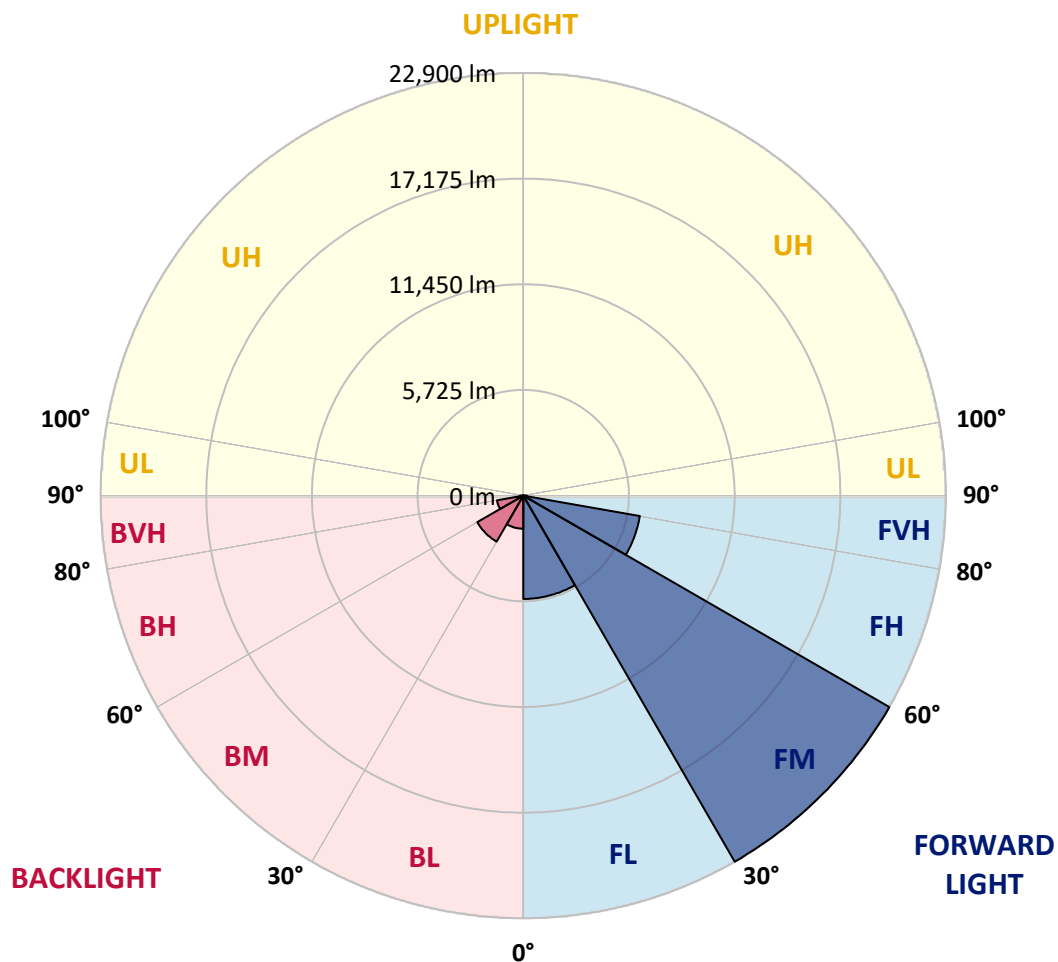
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5595.4	13.5			
FM	(30°-60°)	22900.4	55.3			
FH	(60°-80°)	6414.3	15.5			G3/7500
FVH	(80°-90°)	188.2	0.5			G2/225
BL	(0°-30°)	1793.6	4.3	B3/2500		
BM	(30°-60°)	2878.2	7.0	B3/5000		
BH	(60°-80°)	1448.4	3.5	B3/2500		G3/2500
BVH	(80°-90°)	174.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2
2.5°	10805.7	10687.8	10594.9	10513.4	10406.9	10119.1	9831.4	9826.8	9598.0	9244.5	8882.0
5°	12566.2	12407.6	12428.0	12174.2	11920.4	11503.5	10894.0	10862.3	10375.2	9713.5	9040.6
7.5°	13712.7	13715.0	13651.5	13506.5	13232.4	12758.8	12067.7	11911.4	11233.9	10230.2	9221.9
10°	13653.8	13715.0	13821.5	13946.1	14029.9	13796.5	13166.6	12976.3	12094.9	10855.5	9423.5
12.5°	12869.8	12965.0	13116.8	13429.5	13934.8	14319.9	14104.7	13950.6	13091.9	11478.6	9645.6
15°	12380.4	12437.1	12520.9	12731.6	13275.4	14197.6	14755.0	14673.4	14032.2	12183.3	9894.8
17.5°	12230.9	12287.5	12314.7	12443.9	12831.3	13776.2	15011.0	15156.0	14866.0	12831.3	10146.3
20°	12380.4	12407.6	12407.6	12484.6	12788.3	13529.2	14999.7	15292.0	15550.3	13608.5	10382.0
22.5°	12772.4	12783.7	12767.9	12795.1	13021.6	13597.2	14893.2	15255.7	16103.1	14267.8	10565.5
25°	13409.1	13427.2	13323.0	13259.5	13425.0	13896.2	14952.1	15285.2	16535.9	14897.7	10687.8
27.5°	14131.9	14154.5	14027.7	13880.4	13957.4	14265.6	15183.2	15482.3	16859.9	15518.6	10764.9
30°	15017.8	15026.9	14813.9	14637.2	14587.3	14816.2	15577.5	15856.2	17263.2	16250.4	10880.4
32.5°	15924.1	15992.1	15718.0	15468.7	15384.9	15455.1	16159.8	16429.4	17743.6	17036.7	11066.2
35°	17156.7	17168.1	16839.5	16535.9	16259.5	16350.1	16905.2	17100.1	18407.5	17945.2	11329.1
37.5°	18695.2	18799.5	18346.3	17779.8	17440.0	17308.6	17807.0	18020.0	19338.7	19060.0	11725.6
40°	20403.7	20442.2	20054.7	19701.3	19080.4	18699.8	19044.2	19275.3	20487.5	20390.1	12185.5
42.5°	21477.7	21561.5	21590.9	21554.7	21087.9	20449.0	20580.4	20689.2	21847.0	21638.5	12656.8
45°	21840.2	21964.8	22386.2	23279.0	23328.8	22698.9	22393.0	22497.3	23328.8	22898.3	13107.7
47.5°	21239.7	21452.7	22229.9	24060.7	25431.5	25479.1	24556.9	24328.0	24679.3	23942.9	13434.0
50°	19687.7	19733.0	20922.5	23573.5	26417.1	28136.9	27183.0	26757.0	25961.7	24715.5	13658.3
52.5°	17285.9	17338.0	18335.0	21310.0	25809.9	29994.9	30255.4	29494.1	27264.5	25315.9	13805.6
55°	12831.3	13132.7	14229.3	17104.6	22932.3	29820.4	32698.0	32265.2	28839.3	25791.8	14036.7
57.5°	7889.6	7613.1	8913.7	11637.2	17247.4	27423.2	33452.5	33593.0	30572.6	26190.5	14424.2
60°	3629.8	3684.2	4221.2	6002.1	10513.4	21452.7	31508.4	32396.6	31531.1	26177.0	14521.6
62.5°	2501.5	2451.6	2315.7	2635.1	4794.5	13567.7	26614.3	28118.8	29609.7	25363.5	14134.2
65°	2236.4	2186.5	1923.7	1835.3	2202.4	5913.8	19347.8	21246.5	24930.8	23310.7	13168.9
67.5°	2089.1	2021.1	1749.2	1577.0	1572.5	2354.2	11408.4	13694.6	18491.3	19708.1	11410.6
70°	1935.0	1880.6	1611.0	1420.7	1339.1	1479.6	5014.2	6564.1	12006.6	14202.1	8888.8
72.5°	1780.9	1717.5	1475.0	1271.1	1164.6	1108.0	1921.4	2499.2	6783.8	8514.9	5449.3
75°	1556.6	1524.9	1318.7	1151.0	1035.5	895.0	1219.0	1391.2	3244.6	3910.8	2734.8
77.5°	1361.8	1327.8	1171.4	1006.0	922.2	727.3	865.5	944.8	1368.6	1586.1	1234.9
80°	997.0	1030.9	987.9	888.2	822.5	571.0	582.3	648.0	813.4	899.5	754.5
82.5°	632.2	695.6	761.3	684.3	623.1	450.9	403.3	428.2	555.1	589.1	335.3
85°	265.1	269.6	441.8	416.9	355.7	267.4	242.4	256.0	296.8	310.4	156.3
87.5°	102.0	99.7	156.3	145.0	111.0	77.0	77.0	86.1	117.8	108.8	49.8
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°	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2	8696.2
2.5°	8725.7	8564.8	8245.3	7848.8	7558.8	7232.5	6944.7	6738.5	6661.5	6625.2	6557.3
5°	8718.9	8401.6	7740.0	7046.7	6489.3	5918.3	5435.7	5123.0	5095.8	4887.4	4867.0
7.5°	8721.1	8236.2	7182.6	6163.0	5313.3	4728.8	4330.0	4225.7	4101.1	4069.4	4085.3
10°	8727.9	8025.5	6584.5	5288.4	4465.9	4083.0	3933.5	3892.7	3897.2	3910.8	3913.1
12.5°	8737.0	7821.6	5963.6	4624.5	3990.1	3831.5	3815.6	3851.9	3890.4	3919.9	3926.7
15°	8748.3	7588.2	5358.7	4089.8	3752.2	3738.6	3790.7	3851.9	3906.3	3949.3	3956.1
17.5°	8734.7	7316.3	4851.1	3761.3	3620.8	3686.5	3772.6	3849.6	3899.5	3940.3	3944.8
20°	8703.0	7012.7	4361.7	3530.1	3539.2	3645.7	3738.6	3811.1	3865.5	3885.9	3901.7
22.5°	8580.6	6650.2	3935.7	3351.1	3441.8	3589.0	3700.1	3743.1	3681.9	3638.9	3650.2
25°	8372.2	6178.9	3539.2	3206.1	3353.4	3509.7	3623.0	3518.8	3469.0	3450.8	3459.9
27.5°	8111.6	5662.3	3240.1	3054.3	3240.1	3421.4	3389.7	3371.5	3348.9	3319.4	3326.2
30°	7830.7	5157.0	2986.3	2936.5	3117.8	3222.0	3235.6	3265.0	3240.1	3194.8	3212.9
32.5°	7570.1	4681.2	2793.7	2836.8	3031.7	3015.8	3117.8	3151.7	3036.2	2884.4	2891.2
35°	7348.0	4239.3	2648.7	2739.4	2884.4	2891.2	2993.1	2875.3	2750.7	2678.2	2682.7
37.5°	7180.4	3894.9	2553.6	2655.5	2696.3	2782.4	2728.0	2666.9	2651.0	2601.2	2603.4
40°	7080.7	3593.6	2492.4	2589.8	2583.0	2641.9	2467.5	2528.6	2551.3	2535.4	2537.7
42.5°	6981.0	3380.6	2429.0	2499.2	2496.9	2381.4	2342.9	2395.0	2453.9	2460.7	2456.1
45°	6901.7	3215.2	2363.2	2361.0	2406.3	2225.0	2213.7	2245.4	2329.3	2370.0	2367.8
47.5°	6813.3	3077.0	2263.5	2200.1	2213.7	2127.6	2109.5	2123.1	2225.0	2290.7	2308.9
50°	6702.3	2938.8	2138.9	2052.8	1996.2	2037.0	2041.5	2043.8	2145.7	2220.5	2236.4
52.5°	6613.9	2834.5	1996.2	1932.7	1864.8	1955.4	1989.4	1993.9	2055.1	2116.3	2127.6
55°	6666.0	2775.6	1855.7	1810.4	1749.2	1871.6	1937.3	1946.3	1959.9	2005.2	2012.0
57.5°	6822.4	2789.2	1742.4	1683.5	1638.2	1771.9	1882.9	1889.7	1880.6	1935.0	1944.1
60°	6869.9	2782.4	1658.6	1543.0	1515.8	1665.4	1803.6	1817.2	1814.9	1894.2	1910.1
62.5°	6670.6	2696.3	1574.7	1425.2	1407.1	1556.6	1692.6	1746.9	1758.3	1871.6	1892.0
65°	6201.5	2519.6	1463.7	1300.6	1300.6	1441.1	1586.1	1660.8	1692.6	1844.4	1867.0
67.5°	5583.0	2311.1	1350.4	1194.1	1189.6	1330.0	1472.8	1549.8	1599.7	1805.9	1819.4
70°	4633.6	2030.2	1209.9	1078.5	1078.5	1205.4	1334.6	1427.5	1500.0	1733.3	1733.3
72.5°	3174.4	1688.0	1040.0	947.1	949.4	1067.2	1198.6	1302.8	1388.9	1588.3	1592.9
75°	2007.5	1318.7	854.2	806.6	815.7	926.7	1062.7	1171.4	1343.6	1570.2	1577.0
77.5°	1067.2	926.7	679.7	668.4	679.7	781.7	933.5	1083.1	1348.2	1361.8	1339.1
80°	691.1	657.1	537.0	514.3	518.9	629.9	831.6	1028.7	1083.1	1096.7	1046.8
82.5°	376.1	416.9	380.7	358.0	358.0	491.7	709.2	818.0	777.2	645.8	616.3
85°	160.9	194.9	197.1	172.2	165.4	303.6	475.8	446.4	414.6	396.5	392.0
87.5°	45.3	63.4	63.4	47.6	36.3	83.8	95.2	27.2	0.0	2.3	4.5
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)