

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: P456719

Luminaire Tested: **GALN-SA8A-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456719
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-SA8A-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33960 lumens
Efficiency: N/A
Efficacy: 139.2 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): 244
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

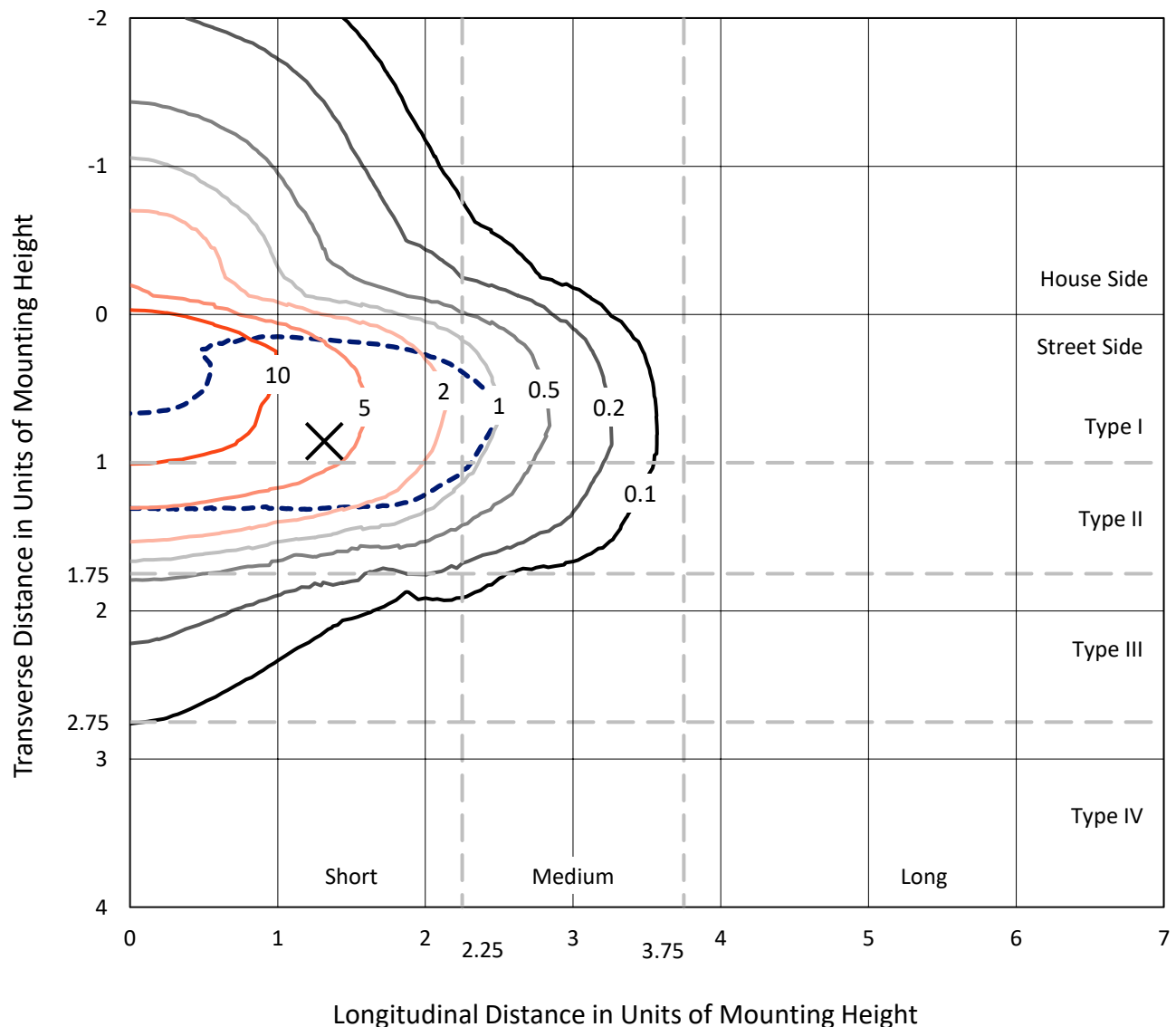


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

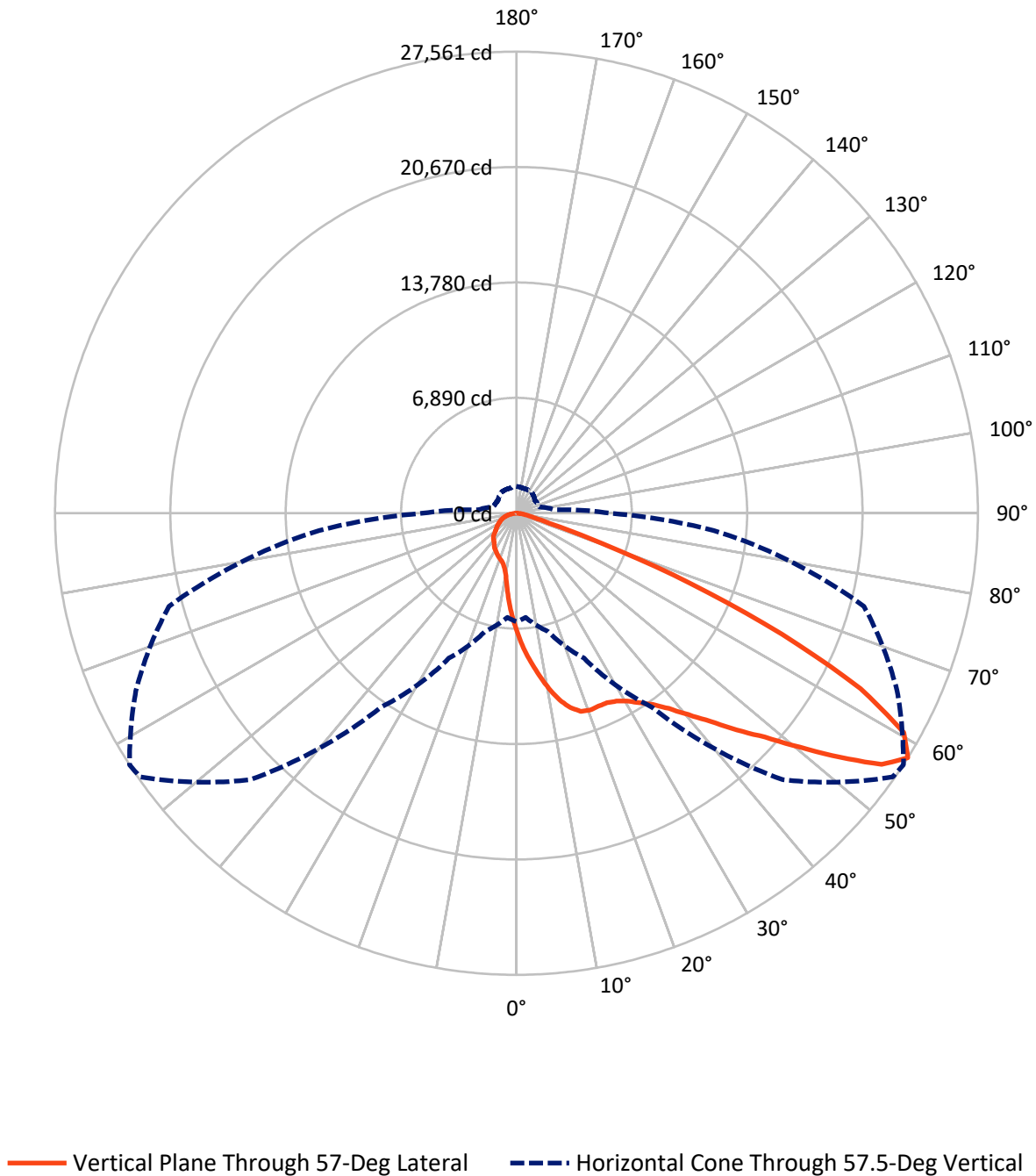


Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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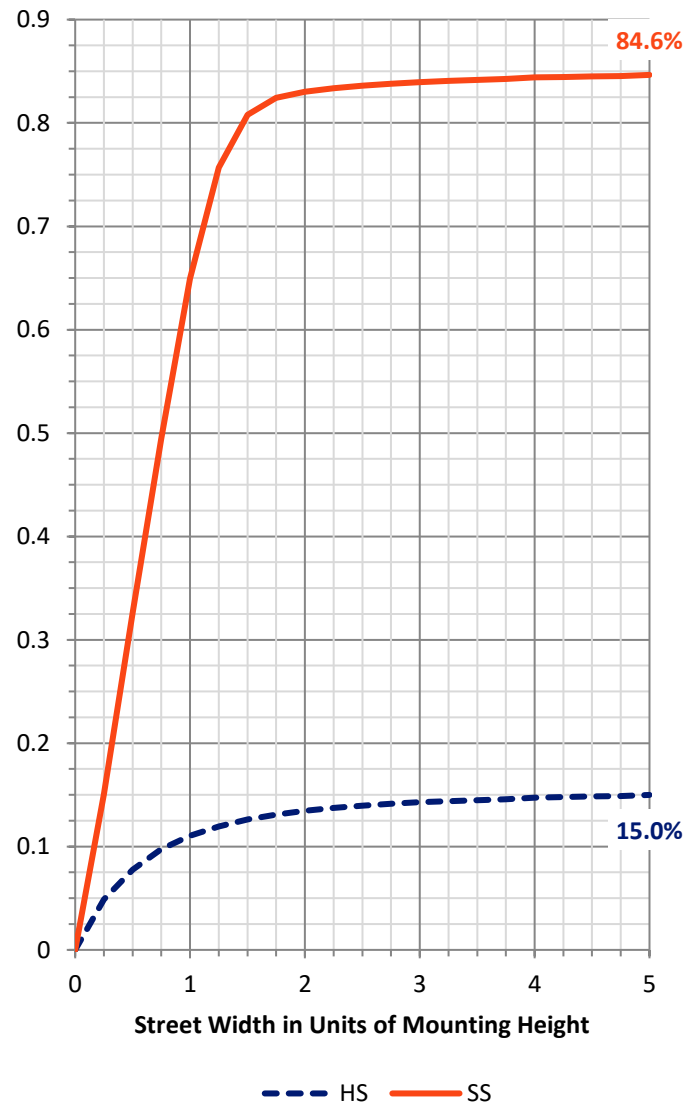
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5164.4	0.0	5164.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	28795.6	0.0	28795.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	33960.0	0.0	33960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.7	2.0
10°-20°	2020.8	6.0
20°-30°	3355.6	9.9
30°-40°	5054.5	14.9
40°-50°	7588.9	22.3
50°-60°	8506.2	25.0
60°-70°	4978.2	14.7
70°-80°	1472.5	4.3
80°-90°	297.6	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°	33960.0	100.0
0°-180°	33960.0	100.0

Coefficient of Utilization



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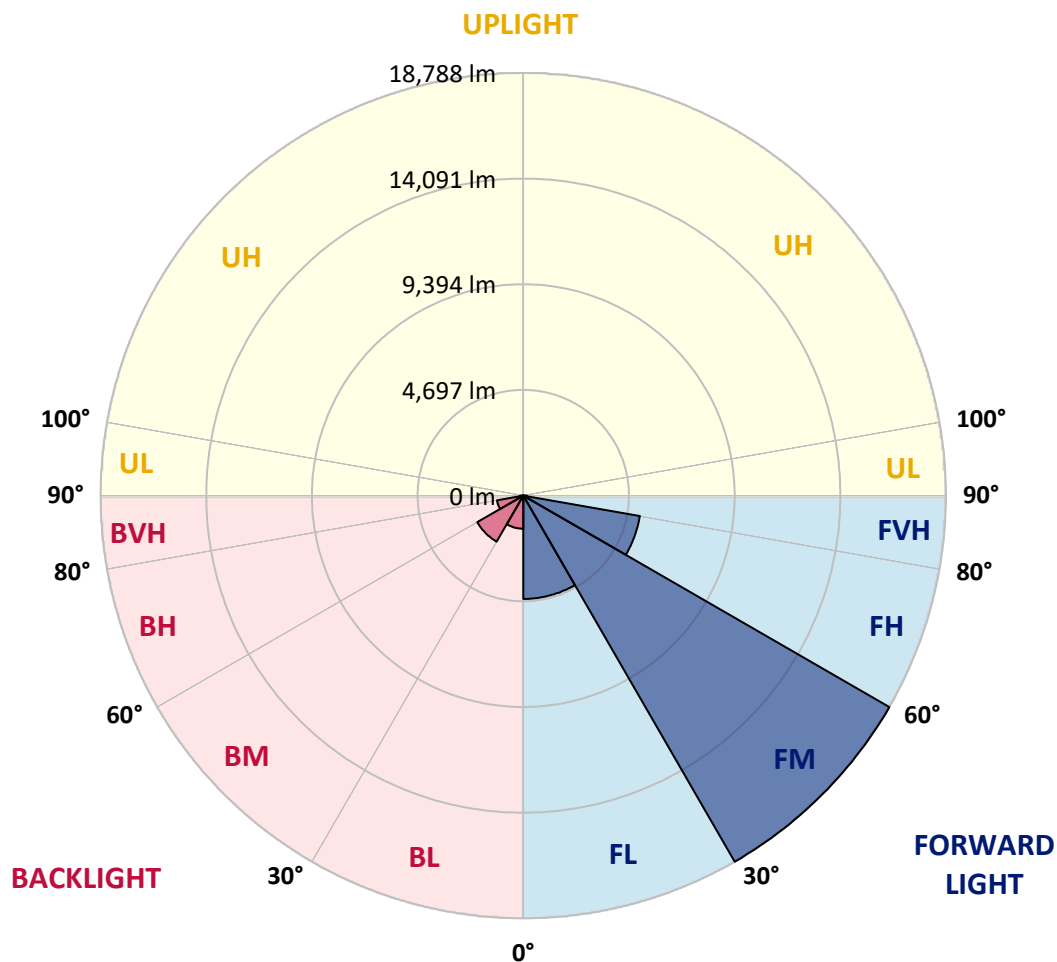
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4590.6	13.5			
FM	(30°-60°)	18788.1	55.3			
FH	(60°-80°)	5262.4	15.5			G3/7500
FVH	(80°-90°)	154.4	0.5			G2/225
BL	(0°-30°)	1471.5	4.3	B3/2500		
BM	(30°-60°)	2361.4	7.0	B2/2500		
BH	(60°-80°)	1188.3	3.5	B3/2500		G3/2500
BVH	(80°-90°)	143.2	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°	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6
2.5°	8865.3	8768.6	8692.4	8625.5	8538.1	8302.0	8065.9	8062.2	7874.5	7584.5	7287.0
5°	10309.7	10179.5	10196.3	9988.1	9779.9	9437.8	8937.8	8911.8	8512.1	7969.3	7417.2
7.5°	11250.3	11252.2	11200.1	11081.1	10856.2	10467.7	9900.7	9772.4	9216.6	8393.1	7565.9
10°	11202.0	11252.2	11339.5	11441.8	11510.5	11319.1	10802.3	10646.1	9923.0	8906.2	7731.3
12.5°	10558.8	10636.8	10761.4	11017.9	11432.5	11748.5	11571.9	11445.5	10740.9	9417.4	7913.5
15°	10157.2	10203.7	10272.5	10445.4	10891.5	11648.1	12105.4	12038.5	11512.4	9995.5	8118.0
17.5°	10034.6	10081.0	10103.3	10209.3	10527.2	11302.3	12315.5	12434.4	12196.5	10527.2	8324.3
20°	10157.2	10179.5	10179.5	10242.8	10491.9	11099.7	12306.2	12546.0	12757.9	11164.8	8517.7
22.5°	10478.8	10488.1	10475.1	10497.4	10683.3	11155.5	12218.8	12516.2	13211.5	11705.7	8668.2
25°	11001.2	11016.1	10930.6	10878.5	11014.2	11400.9	12267.1	12540.4	13566.5	12222.5	8768.6
27.5°	11594.2	11612.8	11508.7	11387.9	11451.1	11703.9	12456.7	12702.1	13832.4	12731.9	8831.8
30°	12321.0	12328.5	12153.7	12008.7	11967.8	12155.6	12780.2	13008.9	14163.3	13332.3	8926.6
32.5°	13064.6	13120.4	12895.5	12691.0	12622.2	12679.8	13258.0	13479.2	14557.4	13977.4	9079.1
35°	14075.9	14085.2	13815.6	13566.5	13339.7	13414.1	13869.5	14029.4	15102.0	14722.8	9294.7
37.5°	15338.1	15423.6	15051.8	14587.1	14308.3	14200.4	14609.4	14784.1	15866.0	15637.4	9620.0
40°	16739.7	16771.3	16453.5	16163.5	15654.1	15341.8	15624.4	15814.0	16808.5	16728.6	9997.4
42.5°	17620.9	17689.7	17713.8	17684.1	17301.1	16776.9	16884.7	16974.0	17923.9	17752.9	10384.0
45°	17918.3	18020.6	18366.3	19098.7	19139.6	18622.8	18371.9	18457.4	19139.6	18786.4	10754.0
47.5°	17425.7	17600.4	18238.0	19740.1	20864.7	20903.8	20147.2	19959.4	20247.6	19643.4	11021.6
50°	16152.3	16189.5	17165.4	19340.4	21673.4	23084.3	22301.7	21952.2	21299.7	20277.3	11205.7
52.5°	14181.8	14224.6	15042.5	17483.3	21175.2	24608.6	24822.4	24197.8	22368.6	20769.9	11326.5
55°	10527.2	10774.4	11674.1	14033.1	18814.3	24465.5	26826.3	26471.3	23660.6	21160.3	11516.1
57.5°	6472.8	6246.0	7313.1	9547.5	14150.2	22498.7	27445.4	27560.6	25082.7	21487.5	11834.0
60°	2978.0	3022.6	3463.2	4924.3	8625.5	17600.4	25850.4	26579.1	25869.0	21476.3	11913.9
62.5°	2052.3	2011.4	1899.8	2161.9	3933.5	11131.3	21835.1	23069.4	24292.6	20809.0	11596.1
65°	1834.8	1793.9	1578.2	1505.7	1806.9	4851.8	15873.5	17431.3	20453.9	19124.8	10804.2
67.5°	1713.9	1658.2	1435.1	1293.8	1290.1	1931.4	9359.8	11235.4	15170.8	16169.1	9361.6
70°	1587.5	1542.9	1321.7	1165.6	1098.6	1213.9	4113.8	5385.3	9850.5	11651.8	7292.6
72.5°	1461.1	1409.1	1210.2	1042.9	955.5	909.0	1576.4	2050.4	5565.7	6985.9	4470.7
75°	1277.1	1251.1	1081.9	944.3	849.5	734.3	1000.1	1141.4	2662.0	3208.5	2243.7
77.5°	1117.2	1089.3	961.1	825.4	756.6	596.7	710.1	775.2	1122.8	1301.3	1013.1
80°	817.9	845.8	810.5	728.7	674.8	468.5	477.7	531.7	667.4	738.0	619.0
82.5°	518.6	570.7	624.6	561.4	511.2	369.9	330.9	351.3	455.4	483.3	275.1
85°	217.5	221.2	362.5	342.0	291.9	219.4	198.9	210.1	243.5	254.7	128.3
87.5°	83.7	81.8	128.3	119.0	91.1	63.2	63.2	70.6	96.7	89.2	40.9
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°	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6	7134.6
2.5°	7158.8	7026.8	6764.7	6439.4	6201.4	5933.7	5697.6	5528.5	5465.3	5435.5	5379.8
5°	7153.2	6892.9	6350.1	5781.3	5324.0	4855.5	4459.6	4203.1	4180.8	4009.7	3993.0
7.5°	7155.1	6757.2	5892.8	5056.3	4359.2	3879.6	3552.4	3466.9	3364.7	3338.7	3351.7
10°	7160.6	6584.4	5402.1	4338.8	3664.0	3349.8	3227.1	3193.7	3197.4	3208.5	3210.4
12.5°	7168.1	6417.1	4892.7	3794.1	3273.6	3143.5	3130.5	3160.2	3191.8	3216.0	3221.5
15°	7177.4	6225.6	4396.4	3355.4	3078.4	3067.2	3110.0	3160.2	3204.8	3240.1	3245.7
17.5°	7166.2	6002.5	3980.0	3085.8	2970.6	3024.5	3095.1	3158.3	3199.2	3232.7	3236.4
20°	7140.2	5753.4	3578.5	2896.2	2903.7	2991.0	3067.2	3126.7	3171.3	3188.1	3201.1
22.5°	7039.8	5456.0	3229.0	2749.4	2823.7	2944.6	3035.6	3071.0	3020.8	2985.5	2994.8
25°	6868.8	5069.3	2903.7	2630.4	2751.2	2879.5	2972.4	2886.9	2846.0	2831.2	2838.6
27.5°	6655.0	4645.5	2658.3	2505.8	2658.3	2807.0	2781.0	2766.1	2747.5	2723.3	2728.9
30°	6424.5	4230.9	2450.1	2409.2	2557.9	2643.4	2654.6	2678.7	2658.3	2621.1	2636.0
32.5°	6210.7	3840.6	2292.1	2327.4	2487.3	2474.2	2557.9	2585.8	2491.0	2366.4	2372.0
35°	6028.5	3478.1	2173.1	2247.5	2366.4	2372.0	2455.7	2359.0	2256.8	2197.3	2201.0
37.5°	5891.0	3195.5	2095.0	2178.7	2212.1	2282.8	2238.2	2188.0	2175.0	2134.1	2135.9
40°	5809.2	2948.3	2044.8	2124.8	2119.2	2167.5	2024.4	2074.6	2093.2	2080.2	2082.0
42.5°	5727.4	2773.5	1992.8	2050.4	2048.6	1953.7	1922.1	1964.9	2013.2	2018.8	2015.1
45°	5662.3	2637.8	1938.9	1937.0	1974.2	1825.5	1816.2	1842.2	1911.0	1944.5	1942.6
47.5°	5589.8	2524.4	1857.1	1805.0	1816.2	1745.5	1730.7	1741.8	1825.5	1879.4	1894.3
50°	5498.7	2411.0	1754.8	1684.2	1637.7	1671.2	1674.9	1676.8	1760.4	1821.8	1834.8
52.5°	5426.2	2325.5	1637.7	1585.7	1529.9	1604.3	1632.1	1635.9	1686.1	1736.2	1745.5
55°	5469.0	2277.2	1522.5	1485.3	1435.1	1535.5	1589.4	1596.8	1608.0	1645.2	1650.7
57.5°	5597.3	2288.4	1429.5	1381.2	1344.0	1453.7	1544.8	1550.4	1542.9	1587.5	1595.0
60°	5636.3	2282.8	1360.7	1265.9	1243.6	1366.3	1479.7	1490.9	1489.0	1554.1	1567.1
62.5°	5472.7	2212.1	1292.0	1169.3	1154.4	1277.1	1388.6	1433.2	1442.5	1535.5	1552.2
65°	5087.9	2067.1	1200.9	1067.0	1067.0	1182.3	1301.3	1362.6	1388.6	1513.2	1531.8
67.5°	4580.4	1896.1	1107.9	979.7	975.9	1091.2	1208.3	1271.5	1312.4	1481.6	1492.7
70°	3801.5	1665.6	992.7	884.9	884.9	989.0	1094.9	1171.1	1230.6	1422.1	1422.1
72.5°	2604.4	1384.9	853.3	777.0	778.9	875.6	983.4	1068.9	1139.5	1303.1	1306.8
75°	1647.0	1081.9	700.8	661.8	669.2	760.3	871.8	961.1	1102.4	1288.2	1293.8
77.5°	875.6	760.3	557.7	548.4	557.7	641.3	765.9	888.6	1106.1	1117.2	1098.6
80°	567.0	539.1	440.6	422.0	425.7	516.8	682.2	844.0	888.6	899.7	858.8
82.5°	308.6	342.0	312.3	293.7	293.7	403.4	581.8	671.1	637.6	529.8	505.6
85°	132.0	159.9	161.7	141.3	135.7	249.1	390.4	366.2	340.2	325.3	321.6
87.5°	37.2	52.1	52.1	39.0	29.7	68.8	78.1	22.3	0.0	1.9	3.7
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)