

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: P455472

Luminaire Tested: **GALN-SA6C-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455472
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-SA6C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33453 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 321
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

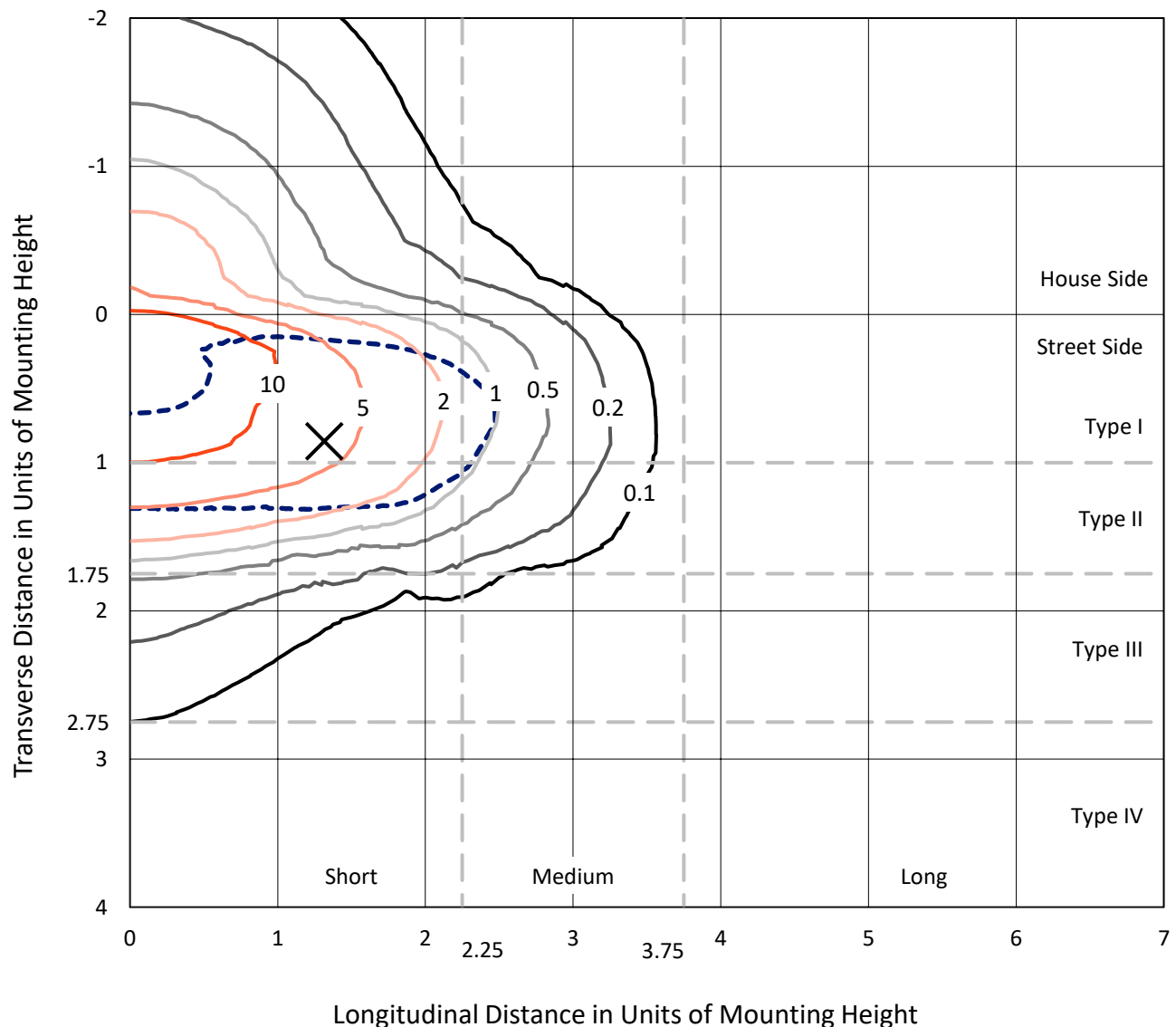


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

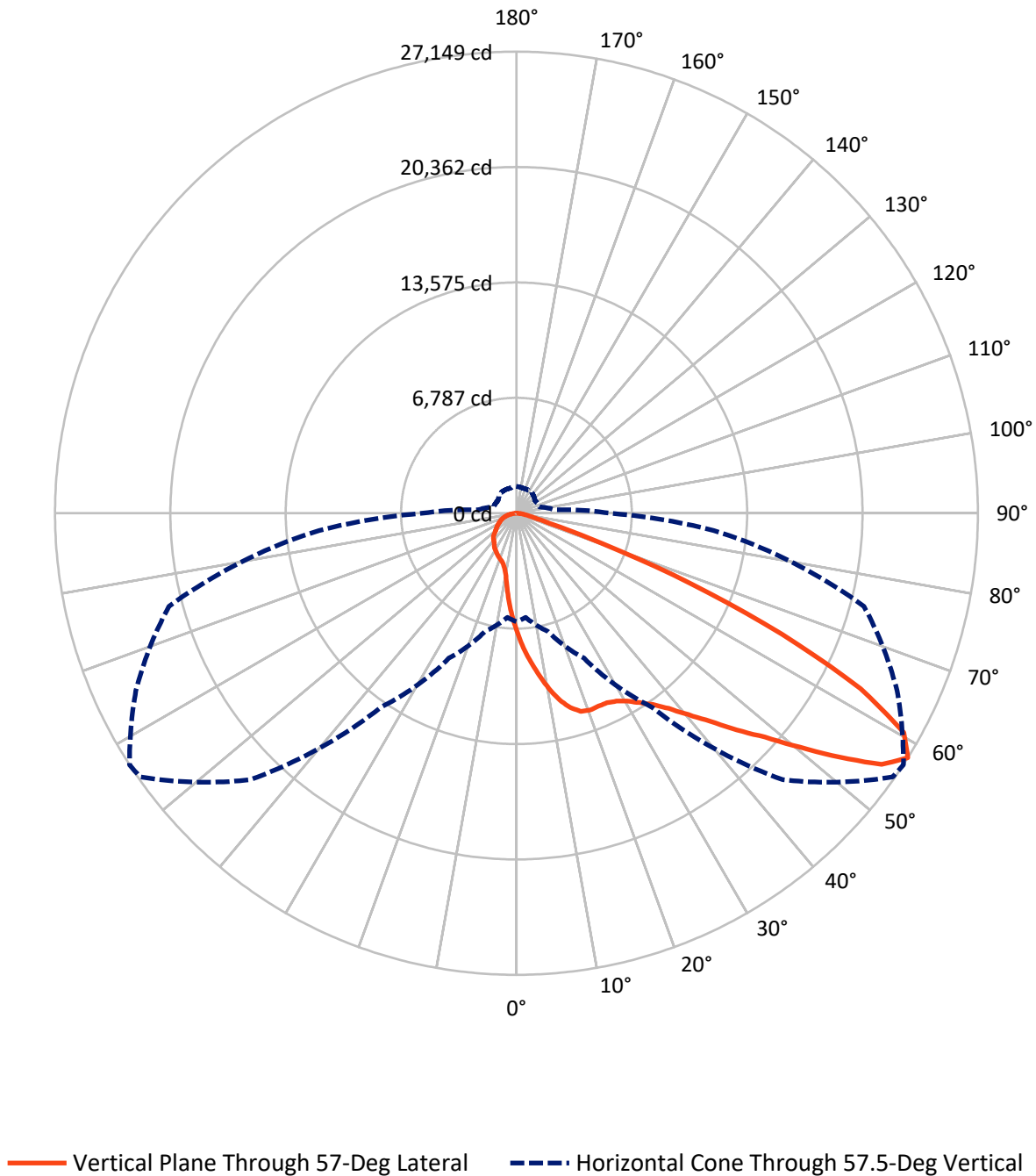


Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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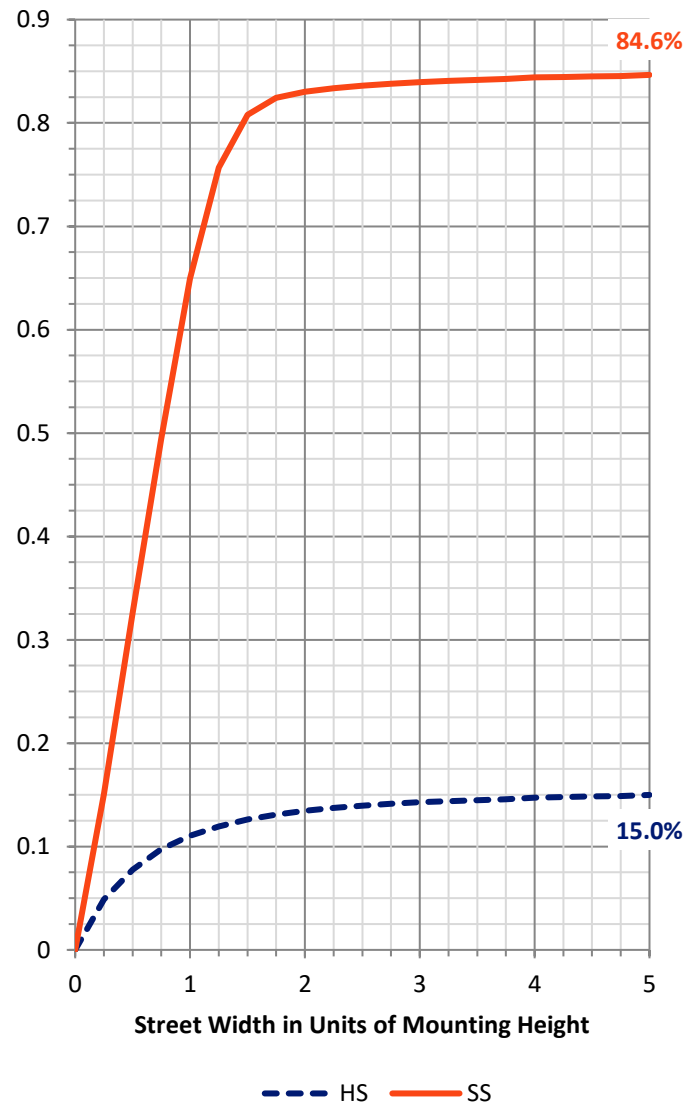
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5087.3	0.0	5087.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	28365.7	0.0	28365.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	33453.0	0.0	33453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.5	2.0
10°-20°	1990.6	6.0
20°-30°	3305.5	9.9
30°-40°	4979.0	14.9
40°-50°	7475.6	22.3
50°-60°	8379.2	25.0
60°-70°	4903.9	14.7
70°-80°	1450.5	4.3
80°-90°	293.2	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°	33453.0	100.0
0°-180°	33453.0	100.0

Coefficient of Utilization



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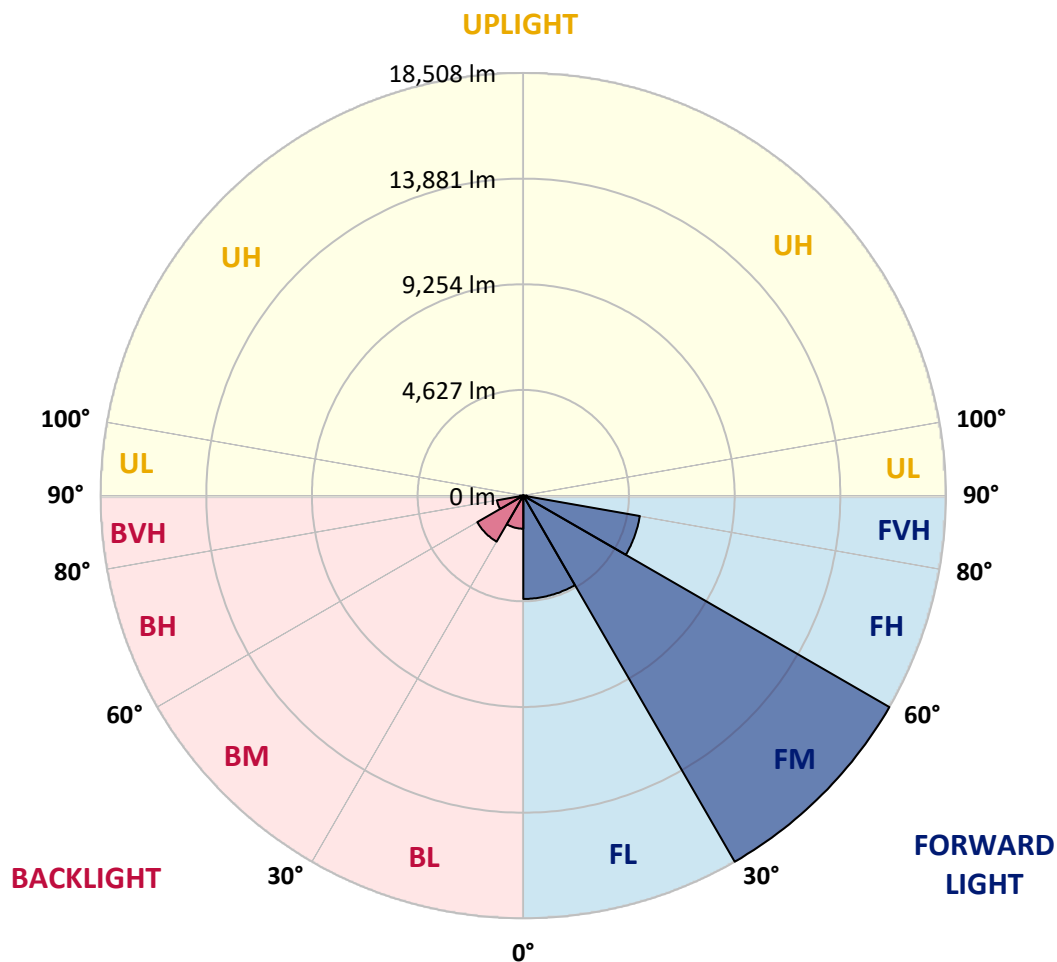
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4522.1	13.5			
FM	(30°-60°)	18507.7	55.3			
FH	(60°-80°)	5183.9	15.5			G3/7500
FVH	(80°-90°)	152.1	0.5			G2/225
BL	(0°-30°)	1449.5	4.3	B3/2500		
BM	(30°-60°)	2326.1	7.0	B2/2500		
BH	(60°-80°)	1170.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	141.1	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°	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1
2.5°	8732.9	8637.7	8562.6	8496.7	8410.6	8178.1	7945.5	7941.9	7756.9	7471.2	7178.2
5°	10155.8	10027.6	10044.1	9839.0	9633.9	9296.9	8804.3	8778.7	8385.0	7850.3	7306.4
7.5°	11082.3	11084.2	11032.9	10915.7	10694.1	10311.4	9752.9	9626.5	9079.0	8267.8	7452.9
10°	11034.7	11084.2	11170.2	11271.0	11338.7	11150.1	10641.0	10487.2	9774.9	8773.2	7615.9
12.5°	10401.1	10478.0	10600.7	10853.4	11261.8	11573.1	11399.1	11274.6	10580.6	9276.8	7795.4
15°	10005.6	10051.4	10119.1	10289.4	10728.9	11474.2	11924.7	11858.8	11340.5	9846.3	7996.8
17.5°	9884.7	9930.5	9952.5	10056.9	10370.0	11133.6	12131.6	12248.8	12014.4	10370.0	8200.1
20°	10005.6	10027.6	10027.6	10089.8	10335.2	10934.0	12122.5	12358.7	12567.4	10998.1	8390.5
22.5°	10322.4	10331.6	10318.7	10340.7	10523.8	10988.9	12036.4	12329.4	13014.2	11531.0	8538.8
25°	10837.0	10851.6	10767.4	10716.1	10849.8	11230.7	12084.0	12353.2	13364.0	12040.0	8637.7
27.5°	11421.1	11439.4	11336.9	11217.8	11280.1	11529.1	12270.8	12512.5	13625.9	12541.8	8700.0
30°	12137.1	12144.4	11972.3	11829.5	11789.2	11974.1	12589.4	12814.6	13951.8	13133.3	8793.4
32.5°	12869.6	12924.5	12702.9	12501.5	12433.8	12490.5	13060.0	13277.9	14340.0	13768.7	8943.5
35°	13865.7	13874.9	13609.4	13364.0	13140.6	13213.8	13662.5	13820.0	14876.6	14503.0	9155.9
37.5°	15109.1	15193.4	14827.1	14369.3	14094.6	13988.4	14391.3	14563.4	15629.2	15403.9	9476.4
40°	16489.8	16521.0	16207.8	15922.2	15420.4	15112.8	15391.1	15577.9	16557.6	16478.8	9848.1
42.5°	17357.8	17425.6	17449.4	17420.1	17042.8	16526.5	16632.7	16720.6	17656.3	17487.8	10229.0
45°	17650.8	17751.5	18092.1	18813.6	18853.9	18344.8	18097.6	18181.8	18853.9	18506.0	10593.4
47.5°	17165.5	17337.7	17965.8	19445.4	20553.2	20591.7	19846.4	19661.4	19945.3	19350.1	10857.1
50°	15911.2	15947.8	16909.2	19051.7	21349.8	22739.7	21968.7	21624.5	20981.7	19974.6	11038.4
52.5°	13970.1	14012.2	14818.0	17222.3	20859.0	24241.2	24451.8	23836.6	22034.7	20459.8	11157.4
55°	10370.0	10613.6	11499.8	13823.6	18533.4	24100.2	26425.8	26076.1	23307.3	20844.4	11344.2
57.5°	6376.2	6152.8	7203.9	9405.0	13939.0	22162.8	27035.6	27149.2	24708.2	21166.7	11657.3
60°	2933.6	2977.5	3411.5	4850.8	8496.7	17337.7	25464.5	26182.3	25482.8	21155.7	11736.1
62.5°	2021.6	1981.3	1871.5	2129.7	3874.8	10965.1	21509.1	22725.0	23929.9	20498.3	11422.9
65°	1807.4	1767.1	1554.7	1483.3	1779.9	4779.4	15636.5	17171.0	20148.5	18839.2	10642.9
67.5°	1688.4	1633.4	1413.7	1274.5	1270.8	1902.6	9220.0	11067.7	14944.3	15927.7	9221.9
70°	1563.8	1519.9	1302.0	1148.2	1082.2	1195.8	4052.4	5304.9	9703.5	11477.9	7183.7
72.5°	1439.3	1388.0	1192.1	1027.3	941.2	895.5	1552.8	2019.8	5482.6	6881.6	4404.0
75°	1258.0	1232.4	1065.8	930.2	836.9	723.3	985.2	1124.3	2622.3	3160.6	2210.2
77.5°	1100.5	1073.1	946.7	813.0	745.3	587.8	699.5	763.6	1106.0	1281.8	998.0
80°	805.7	833.2	798.4	717.8	664.7	461.5	470.6	523.7	657.4	727.0	609.8
82.5°	510.9	562.2	615.3	553.0	503.6	364.4	326.0	346.1	448.6	476.1	271.0
85°	214.2	217.9	357.1	336.9	287.5	216.1	195.9	206.9	239.9	250.9	126.4
87.5°	82.4	80.6	126.4	117.2	89.7	62.3	62.3	69.6	95.2	87.9	40.3
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°	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1	7028.1
2.5°	7051.9	6921.9	6663.7	6343.2	6108.8	5845.1	5612.6	5445.9	5383.7	5354.4	5299.5
5°	7046.4	6790.0	6255.3	5695.0	5244.5	4783.1	4393.0	4140.3	4118.3	3949.9	3933.4
7.5°	7048.2	6656.4	5804.9	4980.8	4294.1	3821.7	3499.4	3415.2	3314.4	3288.8	3301.6
10°	7053.7	6486.1	5321.4	4274.0	3609.3	3299.8	3178.9	3146.0	3149.6	3160.6	3162.5
12.5°	7061.1	6321.3	4819.7	3737.5	3224.7	3096.5	3083.7	3113.0	3144.1	3168.0	3173.4
15°	7070.2	6132.6	4330.8	3305.3	3032.4	3021.5	3063.6	3113.0	3157.0	3191.8	3197.3
17.5°	7059.2	5912.9	3920.6	3039.8	2926.2	2979.3	3048.9	3111.2	3151.5	3184.4	3188.1
20°	7033.6	5667.5	3525.0	2853.0	2860.3	2946.4	3021.5	3080.1	3124.0	3140.5	3153.3
22.5°	6934.7	5374.5	3180.8	2708.3	2781.6	2900.6	2990.3	3025.1	2975.7	2940.9	2950.0
25°	6766.2	4993.6	2860.3	2591.1	2710.2	2836.5	2928.1	2843.8	2803.5	2788.9	2796.2
27.5°	6555.6	4576.1	2618.6	2468.4	2618.6	2765.1	2739.5	2724.8	2706.5	2682.7	2688.2
30°	6328.6	4167.8	2413.5	2373.2	2519.7	2603.9	2614.9	2638.7	2618.6	2582.0	2596.6
32.5°	6118.0	3783.2	2257.9	2292.6	2450.1	2437.3	2519.7	2547.2	2453.8	2331.1	2336.6
35°	5938.5	3426.1	2140.7	2213.9	2331.1	2336.6	2419.0	2323.8	2223.1	2164.5	2168.1
37.5°	5803.0	3147.8	2063.7	2146.2	2179.1	2248.7	2204.7	2155.3	2142.5	2102.2	2104.0
40°	5722.5	2904.3	2014.3	2093.0	2087.6	2135.2	1994.2	2043.6	2061.9	2049.1	2050.9
42.5°	5641.9	2732.1	1963.0	2019.8	2018.0	1924.6	1893.4	1935.6	1983.2	1988.7	1985.0
45°	5577.8	2598.5	1909.9	1908.1	1944.7	1798.2	1789.1	1814.7	1882.5	1915.4	1913.6
47.5°	5506.4	2486.8	1829.4	1778.1	1789.1	1719.5	1704.8	1715.8	1798.2	1851.3	1866.0
50°	5416.6	2375.0	1728.6	1659.1	1613.3	1646.2	1649.9	1651.7	1734.1	1794.6	1807.4
52.5°	5345.2	2290.8	1613.3	1562.0	1507.1	1580.3	1607.8	1611.4	1660.9	1710.3	1719.5
55°	5387.3	2243.2	1499.7	1463.1	1413.7	1512.6	1565.7	1573.0	1584.0	1620.6	1626.1
57.5°	5513.7	2254.2	1408.2	1360.6	1323.9	1432.0	1521.7	1527.2	1519.9	1563.8	1571.2
60°	5552.2	2248.7	1340.4	1247.0	1225.1	1345.9	1457.6	1468.6	1466.8	1530.9	1543.7
62.5°	5391.0	2179.1	1272.7	1151.8	1137.2	1258.0	1367.9	1411.8	1421.0	1512.6	1529.0
65°	5012.0	2036.3	1182.9	1051.1	1051.1	1164.6	1281.8	1342.3	1367.9	1490.6	1508.9
67.5°	4512.0	1867.8	1091.4	965.0	961.4	1074.9	1190.3	1252.5	1292.8	1459.5	1470.4
70°	3744.8	1640.7	977.9	871.6	871.6	974.2	1078.6	1153.6	1212.2	1400.9	1400.9
72.5°	2565.5	1364.2	840.5	765.4	767.3	862.5	968.7	1052.9	1122.5	1283.7	1287.3
75°	1622.4	1065.8	690.4	651.9	659.2	749.0	858.8	946.7	1085.9	1269.0	1274.5
77.5°	862.5	749.0	549.4	540.2	549.4	631.8	754.4	875.3	1089.6	1100.5	1082.2
80°	558.5	531.0	434.0	415.7	419.3	509.1	672.0	831.4	875.3	886.3	846.0
82.5°	304.0	336.9	307.6	289.3	289.3	397.4	573.2	661.1	628.1	521.9	498.1
85°	130.0	157.5	159.3	139.2	133.7	245.4	384.5	360.7	335.1	320.5	316.8
87.5°	36.6	51.3	51.3	38.5	29.3	67.8	76.9	22.0	0.0	1.8	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)