

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: P200618

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL3-8030-1200
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11120 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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: 25 FT



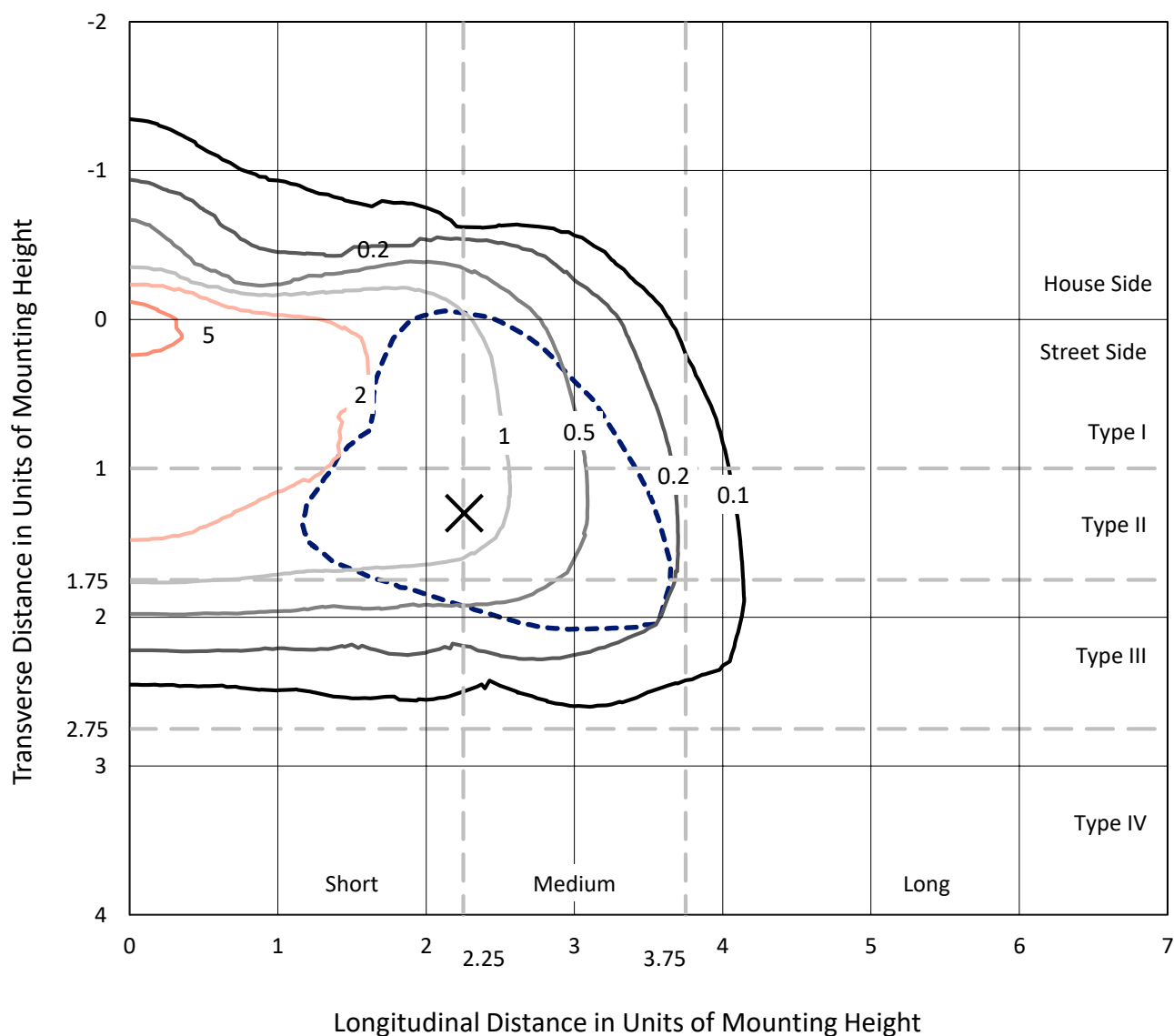
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

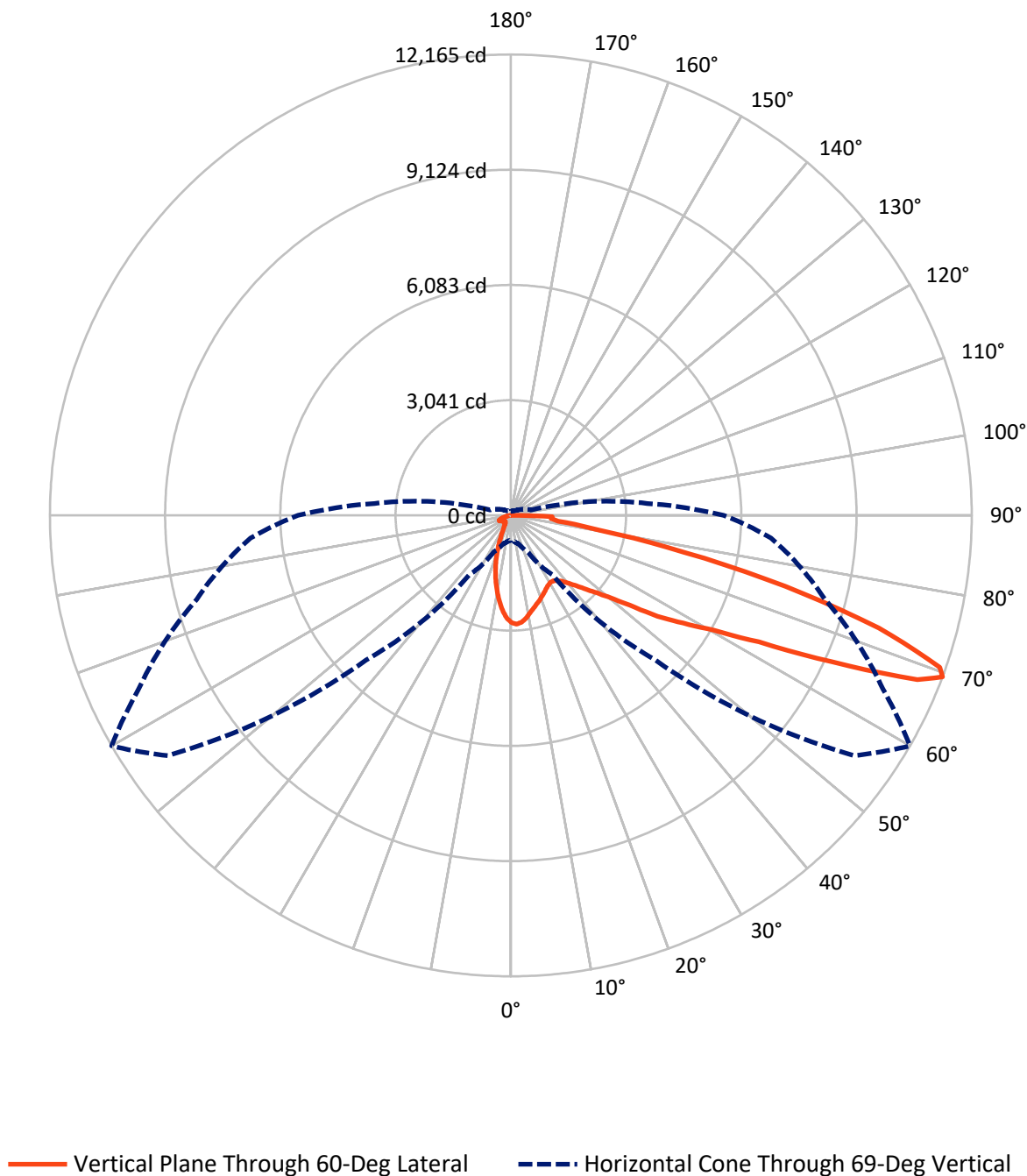


Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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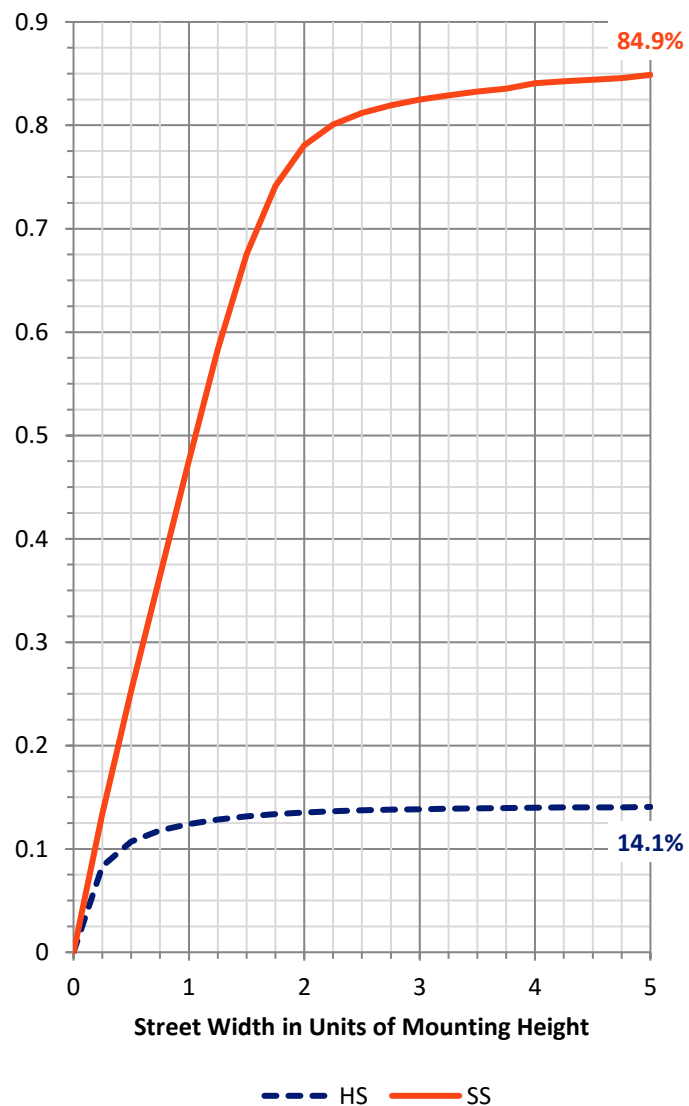
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1582.0	0.0	1582.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9538.0	0.0	9538.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	11120.0	0.0	11120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	2.2
10°-20°	510.5	4.6
20°-30°	650.4	5.8
30°-40°	894.1	8.0
40°-50°	1450.8	13.0
50°-60°	2326.8	20.9
60°-70°	3096.8	27.8
70°-80°	1672.0	15.0
80°-90°	279.0	2.5
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°	11120.0	100.0
0°-180°	11120.0	100.0

Coefficient of Utilization



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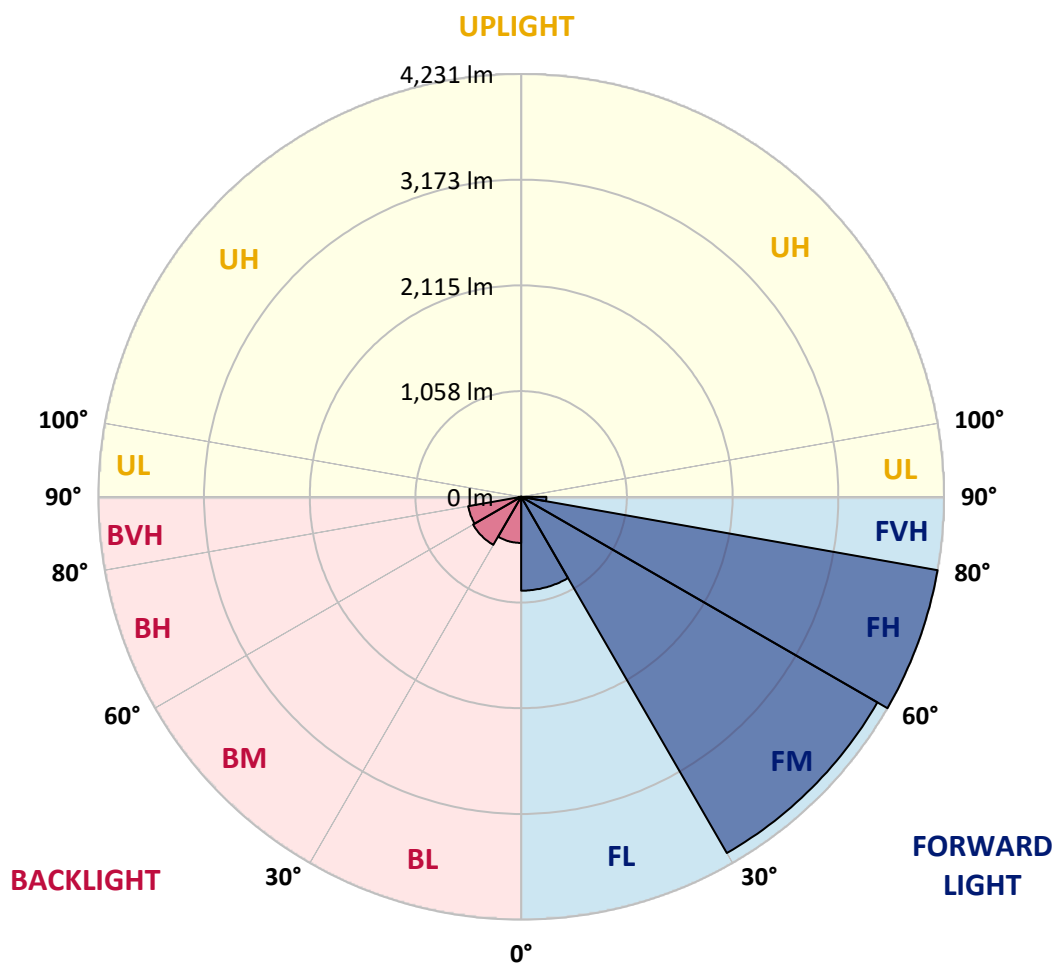
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	938.9	8.4			
FM	(30°-60°)	4116.0	37.0			
FH	(60°-80°)	4230.9	38.0			G2/5000
FVH	(80°-90°)	252.1	2.3			G3/500
BL	(0°-30°)	461.5	4.2	B1/500		
BM	(30°-60°)	555.8	5.0	B1/1000		
BH	(60°-80°)	537.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	26.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5
2.5°	2891.6	2898.0	2895.3	2893.7	2898.5	2891.0	2875.4	2870.6	2863.1	2845.4	2815.3
5°	2783.1	2802.4	2801.3	2815.8	2840.0	2846.4	2839.5	2840.5	2826.6	2804.5	2754.6
7.5°	2595.6	2603.6	2607.9	2639.6	2683.7	2719.1	2749.2	2758.9	2752.4	2733.6	2669.2
10°	2402.2	2408.6	2418.9	2455.9	2511.8	2560.7	2617.6	2650.4	2664.3	2661.1	2589.1
12.5°	2236.2	2242.7	2256.1	2298.0	2364.6	2424.8	2507.5	2548.3	2581.6	2601.5	2524.1
15°	2087.4	2101.4	2114.3	2162.6	2237.3	2316.3	2409.7	2461.3	2512.9	2557.4	2466.7
17.5°	1971.4	1985.4	1992.9	2036.9	2116.4	2213.1	2322.7	2383.4	2447.9	2520.9	2409.7
20°	1904.2	1910.7	1907.5	1932.2	2003.6	2106.2	2236.2	2306.6	2384.5	2486.5	2352.8
22.5°	1885.4	1886.0	1874.2	1871.5	1917.7	2004.2	2143.8	2229.2	2324.8	2464.0	2303.9
25°	1931.1	1929.5	1897.3	1870.9	1875.8	1926.3	2054.7	2154.0	2274.9	2459.1	2266.3
27.5°	2032.6	2037.5	1989.7	1940.2	1891.4	1889.7	1987.0	2091.7	2234.1	2481.2	2250.2
30°	2175.0	2183.0	2132.0	2069.2	1977.3	1901.6	1960.7	2054.7	2208.8	2526.8	2247.5
32.5°	2330.8	2339.4	2300.7	2234.6	2114.3	1974.6	1978.9	2057.9	2207.7	2590.7	2265.8
35°	2496.7	2506.4	2486.5	2430.7	2296.9	2109.4	2048.7	2110.0	2242.7	2688.5	2314.6
37.5°	2682.1	2697.1	2702.5	2649.3	2506.4	2287.2	2163.2	2208.8	2321.6	2824.4	2404.4
40°	2949.0	2970.0	2968.4	2892.1	2746.5	2527.4	2339.9	2351.7	2444.6	3006.0	2547.8
42.5°	3460.4	3464.7	3331.0	3165.0	3010.8	2779.8	2548.3	2538.6	2614.4	3235.9	2758.9
45°	4110.9	4093.2	3795.6	3474.9	3286.9	3069.9	2819.6	2772.3	2829.8	3516.3	3023.2
47.5°	4650.8	4609.9	4233.9	3791.3	3579.1	3385.2	3138.1	3055.4	3087.1	3834.3	3364.8
50°	4838.2	4807.6	4496.1	4054.5	3855.8	3769.8	3530.2	3413.1	3421.7	4213.5	3765.0
52.5°	4798.0	4793.7	4585.8	4228.0	4114.7	4173.8	4085.7	3927.2	3843.4	4634.7	4196.9
55°	4702.9	4712.0	4636.8	4430.0	4410.7	4563.8	4811.4	4694.3	4433.8	5059.6	4643.3
57.5°	4372.5	4396.2	4561.6	4684.1	4887.1	5114.9	5395.8	5362.5	5069.2	5518.8	5174.0
60°	3522.7	3577.5	4021.2	4634.7	5377.6	6089.8	6215.5	6138.2	5724.6	6088.8	5875.0
62.5°	2468.3	2525.2	3052.7	4012.6	5297.0	7191.0	7680.9	7347.3	6665.7	6928.4	6782.2
65°	1321.4	1348.8	1751.7	2784.1	4471.9	7418.2	9822.6	9315.0	8155.8	7963.5	7558.4
67.5°	728.9	744.0	898.1	1405.8	2864.2	6532.5	11187.0	11570.5	10018.1	8652.7	7417.2
69°	659.1	673.1	774.1	1064.7	1916.6	5401.2	11053.8	12165.2	10834.6	8584.4	6895.0
70°	644.6	657.5	748.3	981.4	1551.3	4452.0	10607.4	12013.2	11029.1	8340.0	6439.5
72.5°	580.1	594.1	682.2	881.5	1325.7	2219.6	8402.3	10157.3	10013.3	7231.3	4884.4
75°	540.9	553.8	703.1	863.2	1269.3	1404.7	5539.2	7485.9	7360.8	5058.5	2633.7
77.5°	231.5	230.4	326.1	730.5	1288.1	1360.1	2976.4	4676.6	4266.7	2162.1	756.3
80°	154.7	152.0	154.7	214.9	1181.2	1367.6	1559.4	2373.7	1793.1	551.1	372.8
82.5°	133.2	131.1	135.9	131.1	415.2	1561.0	1325.7	1262.3	852.5	313.2	184.8
85°	89.7	85.9	117.1	117.6	196.1	1387.0	1493.3	1066.3	689.7	185.9	91.3
87.5°	43.0	41.9	68.2	83.3	115.0	563.5	1675.4	1092.6	695.6	95.1	43.5
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°	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5
2.5°	2806.1	2784.1	2762.6	2736.9	2710.0	2679.9	2664.9	2649.8	2646.1	2641.8	2626.7
5°	2728.8	2697.6	2643.9	2584.8	2522.5	2461.8	2415.6	2386.6	2364.6	2353.3	2333.4
7.5°	2628.9	2583.2	2489.2	2387.2	2282.4	2186.8	2104.1	2052.0	2002.6	1979.5	1953.1
10°	2533.8	2465.6	2319.5	2169.1	2018.7	1874.2	1738.3	1642.1	1556.7	1508.9	1475.1
12.5°	2452.2	2358.7	2156.2	1952.6	1746.3	1540.6	1337.0	1176.9	1043.2	972.8	936.8
15°	2372.7	2259.9	2000.9	1742.6	1477.7	1197.9	930.4	748.8	638.2	594.1	579.1
17.5°	2300.7	2156.2	1845.2	1530.9	1200.6	862.1	625.3	525.3	482.9	468.4	463.6
20°	2222.8	2051.4	1683.5	1309.6	911.6	602.7	488.3	444.2	427.0	422.7	420.6
22.5°	2147.6	1948.3	1528.8	1072.7	654.8	465.2	419.5	401.3	398.6	402.3	402.3
25°	2083.7	1855.9	1361.7	825.1	480.8	391.6	375.5	371.2	381.4	395.4	398.0
27.5°	2035.9	1780.2	1183.9	609.1	383.0	340.6	340.0	347.0	372.3	399.1	404.5
30°	2003.1	1708.2	993.8	439.4	321.2	299.7	308.3	323.4	360.4	398.6	408.8
32.5°	1986.4	1655.0	795.5	340.0	275.0	263.2	277.7	296.0	332.5	368.0	381.4
35°	1999.3	1615.8	608.6	283.6	242.8	233.7	248.7	266.4	287.9	303.0	313.2
37.5°	2047.7	1600.2	459.3	254.1	220.8	212.2	224.0	234.2	242.8	247.1	251.9
40°	2151.9	1616.9	368.0	239.0	208.4	197.7	202.5	206.3	211.6	215.9	218.1
42.5°	2305.5	1666.8	329.8	233.1	202.0	186.4	185.3	186.9	193.9	202.0	203.6
45°	2520.4	1754.9	327.1	236.9	198.8	177.3	172.4	174.6	185.3	197.7	199.8
47.5°	2794.9	1889.2	348.6	248.2	201.4	172.4	164.4	167.1	180.5	197.1	199.8
50°	3127.4	2076.7	384.6	264.8	213.3	173.5	161.7	163.3	177.3	195.5	198.2
52.5°	3520.0	2342.6	423.8	280.9	225.6	180.5	163.8	160.1	173.0	189.1	192.3
55°	3956.8	2683.7	464.1	295.4	232.1	189.1	168.1	155.8	164.9	178.3	181.0
57.5°	4492.8	3160.7	533.9	309.4	236.4	195.0	172.4	151.5	154.7	164.4	166.5
60°	5218.6	3835.4	657.0	332.5	246.0	197.1	171.9	147.7	144.5	149.9	150.9
62.5°	6088.2	4568.1	759.6	361.5	262.1	198.8	168.7	145.0	135.9	135.9	137.0
65°	6604.4	4764.1	702.6	385.7	275.6	197.1	164.9	142.3	129.5	123.5	124.1
67.5°	6166.7	4189.9	602.2	390.5	275.0	189.6	159.0	137.5	123.0	113.9	113.3
69°	5618.2	3615.1	557.0	377.6	262.1	180.0	151.5	132.1	118.2	108.5	108.0
70°	5176.1	3264.4	527.5	363.7	248.2	173.0	145.6	127.3	114.4	105.3	104.2
72.5°	3763.4	2139.0	450.7	312.6	204.7	145.0	125.7	111.7	102.1	96.7	95.6
75°	1880.6	1020.1	365.8	253.5	156.9	116.0	103.1	93.5	88.6	87.6	87.0
77.5°	617.7	467.3	261.6	189.1	116.6	90.8	83.3	76.3	75.2	78.4	77.4
80°	339.5	271.8	166.0	125.2	79.5	66.6	65.5	61.8	63.4	68.8	67.7
82.5°	173.0	141.3	102.6	75.2	53.7	47.8	52.1	50.0	52.1	56.9	56.4
85°	85.4	77.4	65.0	45.7	35.5	30.6	37.1	38.7	39.8	43.5	43.5
87.5°	49.4	45.7	34.4	21.5	17.7	16.1	21.5	20.9	24.7	26.9	26.3
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)