

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: P193293

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-T4W-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18825.4 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 162
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

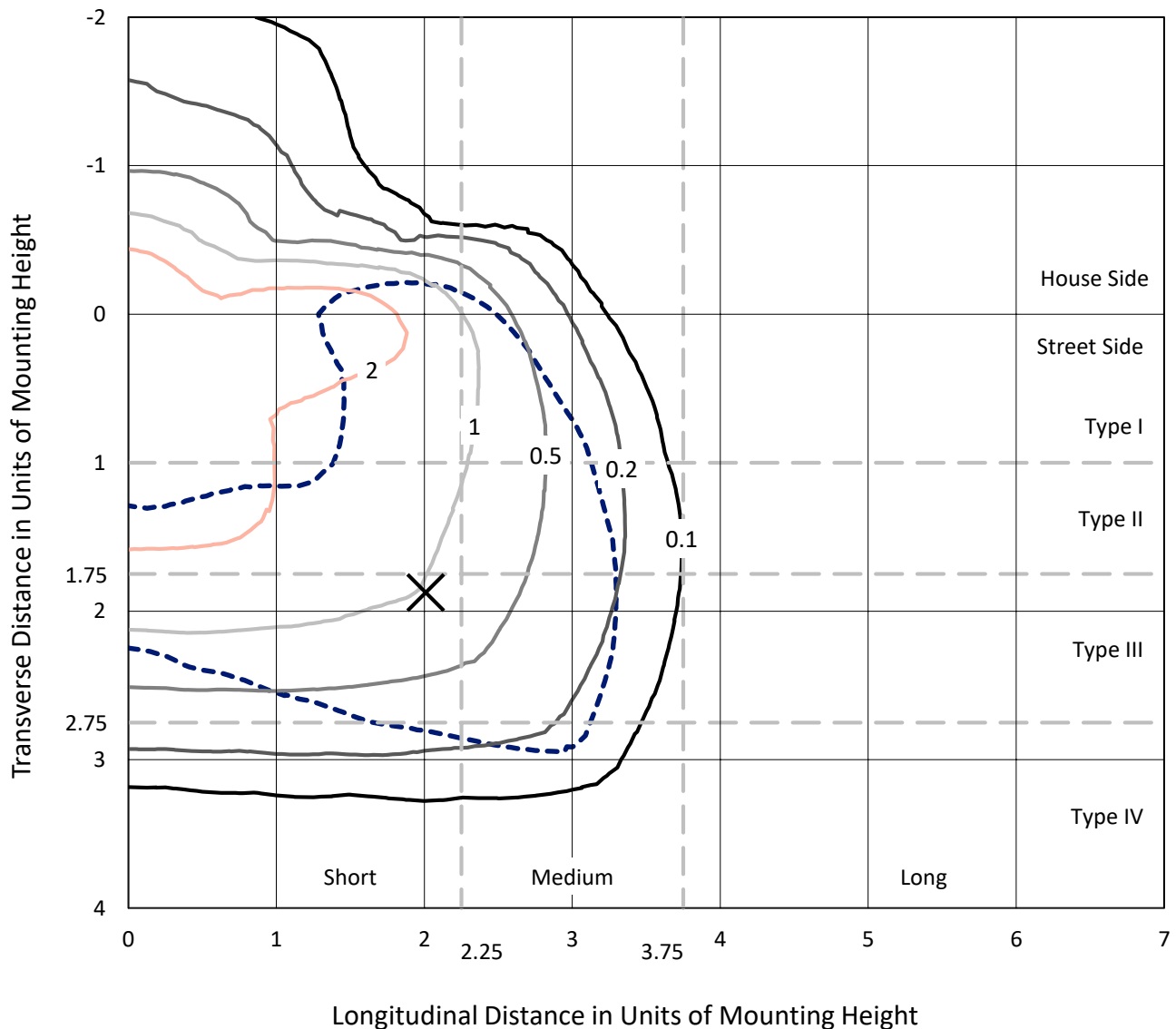


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

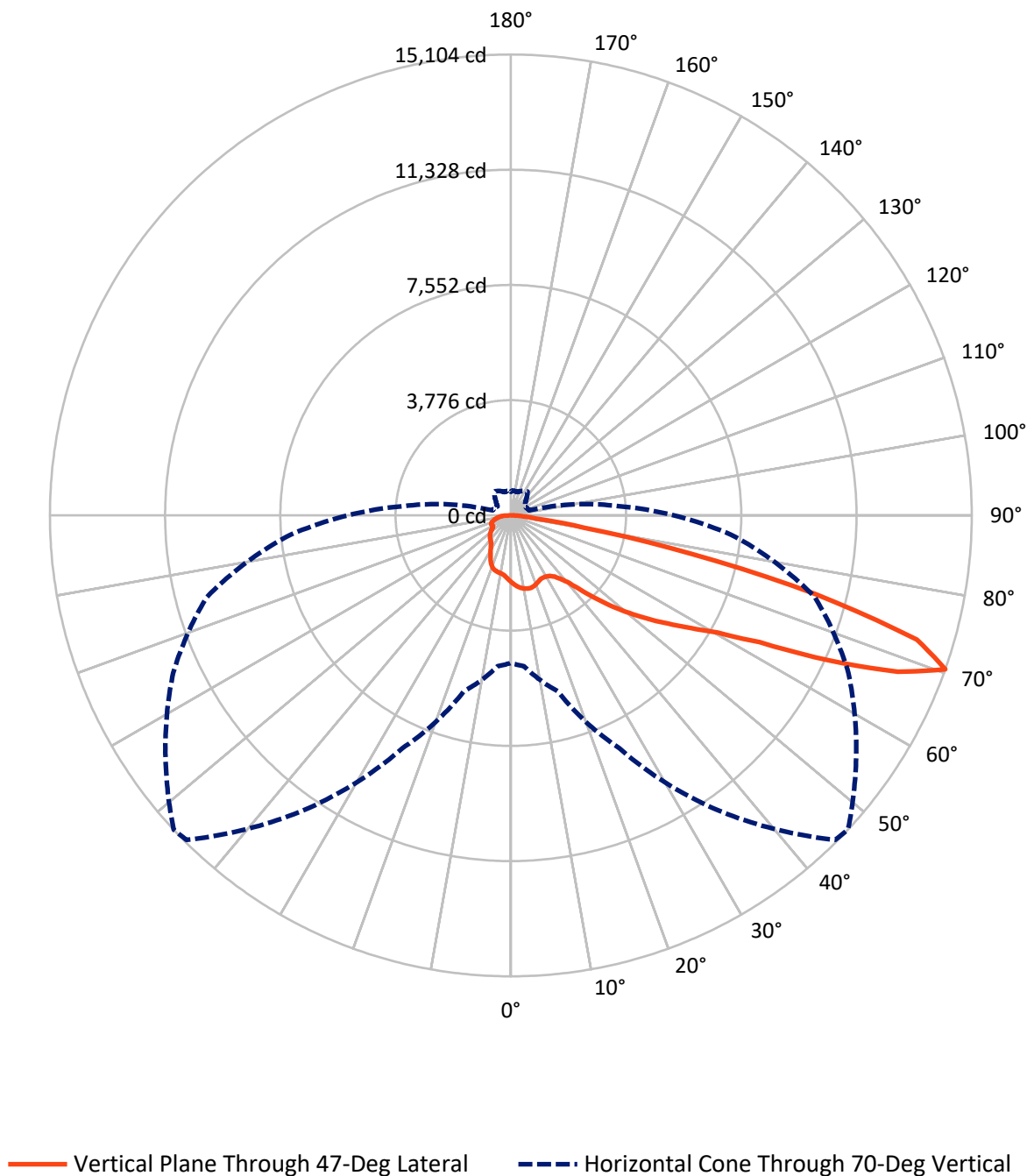


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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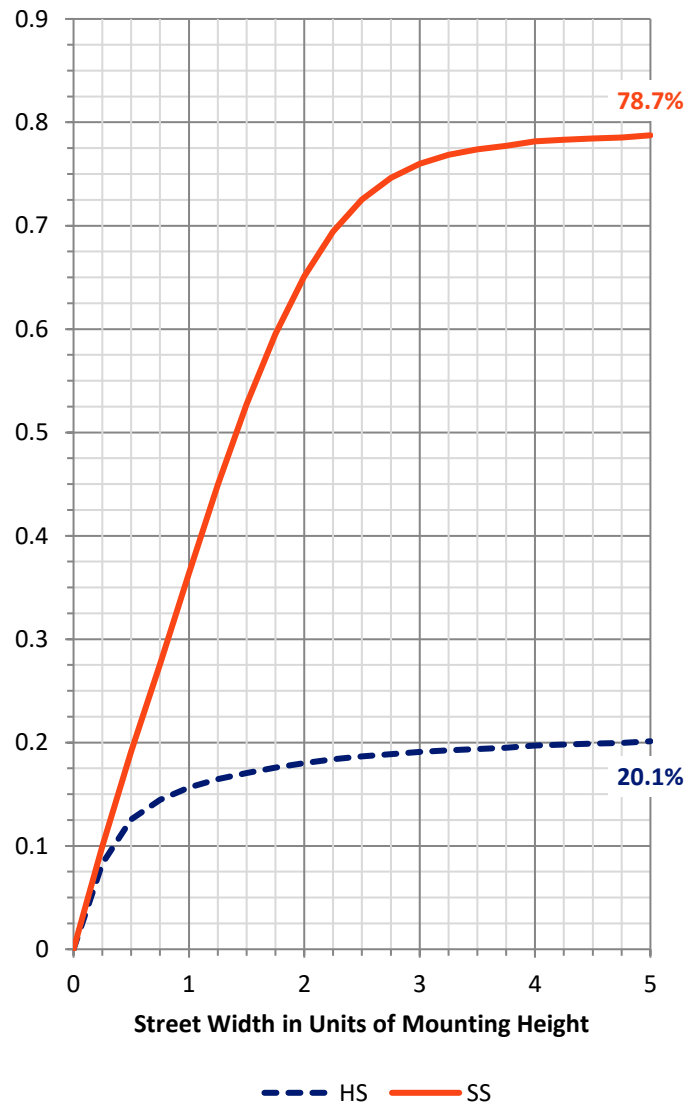
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3927.3	0.0	3927.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	14898.0	0.0	14898.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	18825.4	0.0	18825.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	1.1
10°-20°	614.0	3.3
20°-30°	906.7	4.8
30°-40°	1317.9	7.0
40°-50°	2371.8	12.6
50°-60°	4108.9	21.8
60°-70°	5864.6	31.2
70°-80°	3010.6	16.0
80°-90°	421.5	2.2
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°	18825.4	100.0
0°-180°	18825.4	100.0

Coefficient of Utilization



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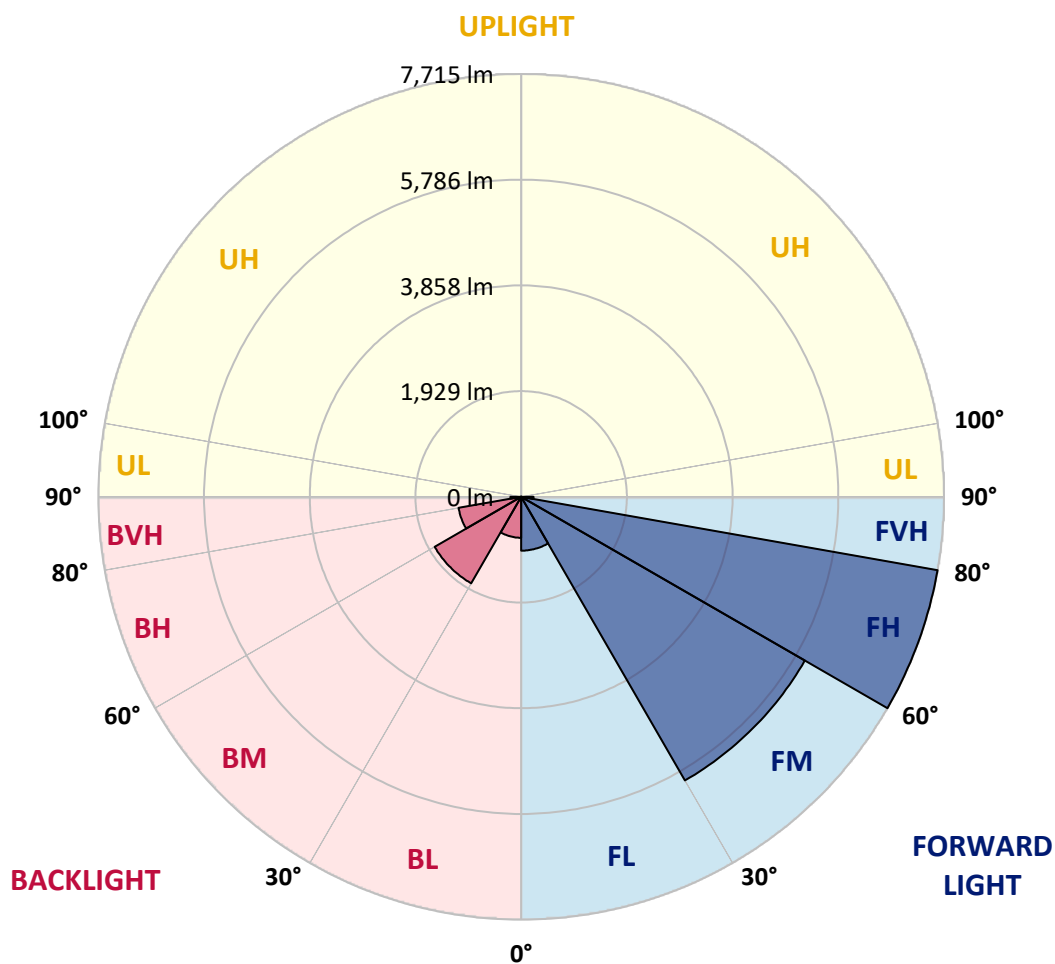
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	982.3	5.2			
FM	(30°-60°)	5975.7	31.7			
FH	(60°-80°)	7715.1	41.0			G4/12000
FVH	(80°-90°)	224.9	1.2			G2/225
BL	(0°-30°)	747.8	4.0	B2/1000		
BM	(30°-60°)	1823.0	9.7	B2/2500		
BH	(60°-80°)	1160.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	196.6	1.0			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3
2.5°	2312.6	2308.0	2306.1	2302.5	2297.9	2275.0	2270.4	2253.9	2231.1	2207.2	2182.5
5°	2464.6	2463.7	2453.6	2435.3	2406.0	2355.6	2343.7	2303.4	2249.3	2197.2	2145.0
7.5°	2598.3	2590.1	2570.9	2534.2	2482.9	2414.2	2397.7	2341.9	2267.6	2196.2	2125.7
10°	2696.3	2691.7	2649.5	2599.2	2532.3	2456.3	2437.1	2374.9	2293.4	2202.6	2114.7
12.5°	2752.1	2743.0	2694.5	2634.0	2554.4	2480.1	2460.9	2397.7	2306.1	2202.6	2099.2
15°	2748.5	2742.1	2693.6	2627.5	2547.1	2482.0	2464.6	2401.4	2303.4	2193.5	2078.9
17.5°	2675.2	2678.0	2636.8	2571.8	2505.8	2456.3	2440.8	2382.2	2285.0	2175.2	2055.1
20°	2547.1	2559.8	2532.3	2474.6	2438.0	2404.1	2394.1	2344.6	2256.6	2148.6	2029.6
22.5°	2418.8	2430.7	2419.6	2371.2	2365.7	2345.5	2340.0	2304.3	2231.9	2132.0	2013.9
25°	2324.5	2335.4	2333.7	2291.5	2308.0	2307.0	2302.5	2285.0	2226.4	2132.0	2016.7
27.5°	2298.9	2302.5	2298.9	2260.3	2283.2	2301.5	2297.9	2295.1	2243.0	2158.6	2051.6
30°	2386.8	2381.2	2352.9	2275.0	2296.1	2321.8	2318.1	2319.9	2292.4	2228.4	2129.4
32.5°	2737.5	2712.8	2623.0	2404.1	2348.3	2361.9	2363.9	2394.1	2398.7	2335.4	2250.3
35°	3262.3	3234.8	3118.5	2750.4	2510.3	2462.7	2462.7	2508.6	2536.0	2489.4	2438.0
37.5°	3818.2	3788.0	3725.7	3230.2	2851.1	2637.6	2633.1	2665.2	2704.5	2715.5	2728.3
40°	4450.1	4418.1	4435.5	3768.8	3326.4	2940.8	2875.8	2852.9	2959.2	3029.6	3132.3
42.5°	5141.6	5127.0	5133.4	4368.6	3867.7	3394.1	3301.7	3183.5	3311.7	3437.2	3652.4
45°	5781.8	5794.7	5788.2	5010.6	4470.4	3947.3	3849.3	3620.5	3745.9	3961.0	4311.9
47.5°	6342.4	6289.2	6371.7	5712.2	5145.3	4566.5	4445.5	4138.7	4266.0	4531.6	5125.2
50°	7022.8	7015.5	6894.6	6648.2	5961.3	5188.4	5029.9	4674.5	4872.4	5241.5	6149.9
52.5°	7738.1	7605.3	7494.5	7376.3	6826.8	5825.8	5631.7	5208.5	5584.9	6049.2	7399.2
55°	7884.7	7825.1	7962.5	8161.2	7661.2	6488.0	6261.7	5878.0	6387.2	6972.5	8839.8
57.5°	8197.8	8196.9	8480.9	8835.4	8520.2	7190.5	6962.3	6686.6	7289.3	8030.2	10369.4
60°	8409.4	8469.0	8996.5	9684.3	9363.7	8001.9	7792.2	7620.0	8315.0	9212.6	11794.4
62.5°	8520.2	8600.9	9320.7	10028.7	10556.2	9352.8	9143.1	8894.8	9672.4	10509.5	12627.8
65°	8059.6	8218.1	9270.3	10326.3	11600.3	11542.5	11448.3	11012.4	11369.5	11534.4	12326.6
67.5°	6784.7	6946.8	8172.3	10048.8	12345.9	13654.5	13674.7	12930.2	12413.6	11622.2	10363.9
70°	4833.9	4961.3	5975.1	8425.0	11777.9	15034.7	15103.5	13813.9	12205.7	10307.1	7240.8
72.5°	2295.1	2373.0	3332.9	5483.2	9346.4	13775.5	13908.2	12685.5	10378.5	7631.0	3950.2
75°	843.5	867.3	1126.5	2332.6	5421.0	10158.7	10315.3	9093.5	6879.9	3799.0	1504.7
77.5°	505.6	521.1	631.9	984.5	2132.0	5806.6	6038.3	4945.6	3006.9	1414.2	740.0
80°	353.6	364.5	453.3	612.7	1007.5	2212.7	2418.8	2018.6	1197.9	894.9	538.5
82.5°	239.1	244.5	318.7	414.0	669.5	790.4	852.7	897.6	807.8	665.8	341.7
85°	156.6	162.1	216.2	272.9	425.9	408.5	417.6	528.5	589.8	452.5	189.6
87.5°	89.7	93.4	130.0	145.7	208.8	173.0	175.0	278.4	377.4	305.0	115.4
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°	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3
2.5°	2176.1	2164.2	2137.6	2121.2	2105.5	2101.9	2095.5	2094.6	2093.6	2093.6	2090.9
5°	2127.5	2107.4	2066.2	2043.2	2024.0	2022.2	2021.3	2025.8	2027.8	2029.6	2026.8
7.5°	2096.3	2069.0	2017.7	1984.7	1961.7	1956.3	1965.5	1986.6	2000.2	2005.8	2002.9
10°	2077.1	2043.2	1983.7	1948.0	1928.8	1926.0	1937.9	1962.8	1991.0	2002.0	2001.2
12.5°	2055.1	2016.7	1953.5	1916.0	1905.1	1910.5	1926.0	1948.9	1978.2	1995.6	1996.6
15°	2033.2	1988.3	1923.3	1890.3	1885.7	1893.1	1907.7	1925.1	1948.0	1965.5	1967.3
17.5°	2006.6	1959.9	1894.9	1861.0	1857.4	1861.0	1862.0	1871.1	1885.7	1902.2	1906.8
20°	1978.2	1930.6	1862.9	1829.0	1812.5	1797.9	1781.4	1783.2	1787.8	1804.2	1807.9
22.5°	1958.2	1910.5	1838.2	1791.5	1747.5	1703.5	1670.6	1665.9	1667.8	1681.5	1686.1
25°	1959.9	1909.6	1831.7	1751.1	1655.0	1584.5	1540.4	1533.1	1532.3	1542.3	1548.7
27.5°	1995.6	1945.3	1855.5	1709.9	1554.2	1449.8	1403.1	1397.7	1390.4	1393.0	1400.3
30°	2075.4	2028.6	1913.2	1667.8	1445.3	1317.8	1269.4	1263.9	1253.9	1249.3	1254.8
32.5°	2205.4	2166.9	1997.5	1627.5	1336.2	1205.2	1155.9	1144.0	1137.5	1132.0	1136.7
35°	2421.5	2405.1	2110.2	1583.5	1240.1	1118.3	1073.4	1055.1	1045.9	1056.0	1063.3
37.5°	2760.4	2769.6	2257.7	1514.9	1165.9	1060.6	1023.0	1001.9	988.2	996.5	1004.7
40°	3240.3	3246.7	2420.6	1417.7	1101.8	1026.7	986.4	967.2	948.0	933.3	932.3
42.5°	3870.4	3805.4	2580.9	1312.4	1027.6	1005.6	960.7	936.9	907.6	867.3	859.1
45°	4617.8	4389.7	2702.7	1191.6	944.2	979.9	932.3	899.4	853.6	809.6	805.0
47.5°	5478.7	5017.0	2762.2	1066.1	866.4	942.5	897.6	845.3	787.6	765.7	762.9
50°	6530.1	5761.7	2790.6	944.2	798.6	892.9	847.2	785.8	737.3	732.7	730.0
52.5°	7727.2	6657.3	2799.8	844.5	742.8	828.8	806.0	746.5	708.0	711.6	711.6
55°	8980.0	7582.4	2675.2	772.0	691.5	762.9	778.5	730.8	698.8	713.5	718.9
57.5°	10130.3	8402.1	2283.2	716.2	642.9	712.6	768.4	745.4	723.6	783.1	786.7
60°	11013.3	8886.6	1705.3	665.8	607.3	695.1	795.0	801.4	806.9	948.8	968.0
62.5°	11198.2	8725.5	1172.4	626.5	590.8	709.7	843.5	844.5	838.0	936.9	948.8
65°	10349.2	7706.0	852.7	604.4	577.0	736.3	884.7	865.5	823.4	898.4	876.5
67.5°	8218.9	5805.6	709.7	588.1	556.9	734.6	928.7	884.7	815.1	880.2	844.5
70°	5334.9	3510.5	631.9	574.2	533.0	699.7	954.4	883.0	791.2	818.8	776.7
72.5°	2602.9	1569.8	579.7	554.1	508.3	651.1	953.4	866.4	766.6	764.7	741.9
75°	1018.4	718.9	532.1	523.9	466.2	596.2	927.7	842.6	737.3	708.0	699.7
77.5°	596.2	512.9	471.7	479.0	415.8	541.3	890.3	801.4	697.0	662.2	653.1
80°	434.1	383.7	402.1	414.0	355.3	486.3	839.8	751.0	652.1	669.5	656.6
82.5°	278.4	247.3	326.0	337.9	295.9	430.5	784.9	697.8	588.9	534.9	522.0
85°	141.9	156.6	242.7	257.3	228.1	353.6	718.1	627.3	517.5	445.1	452.5
87.5°	79.6	107.2	154.8	173.0	161.1	272.0	582.5	517.5	422.2	343.4	302.2
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)