

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: P193311

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193311
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-03-LED-E1-T4W-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17452 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 166
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

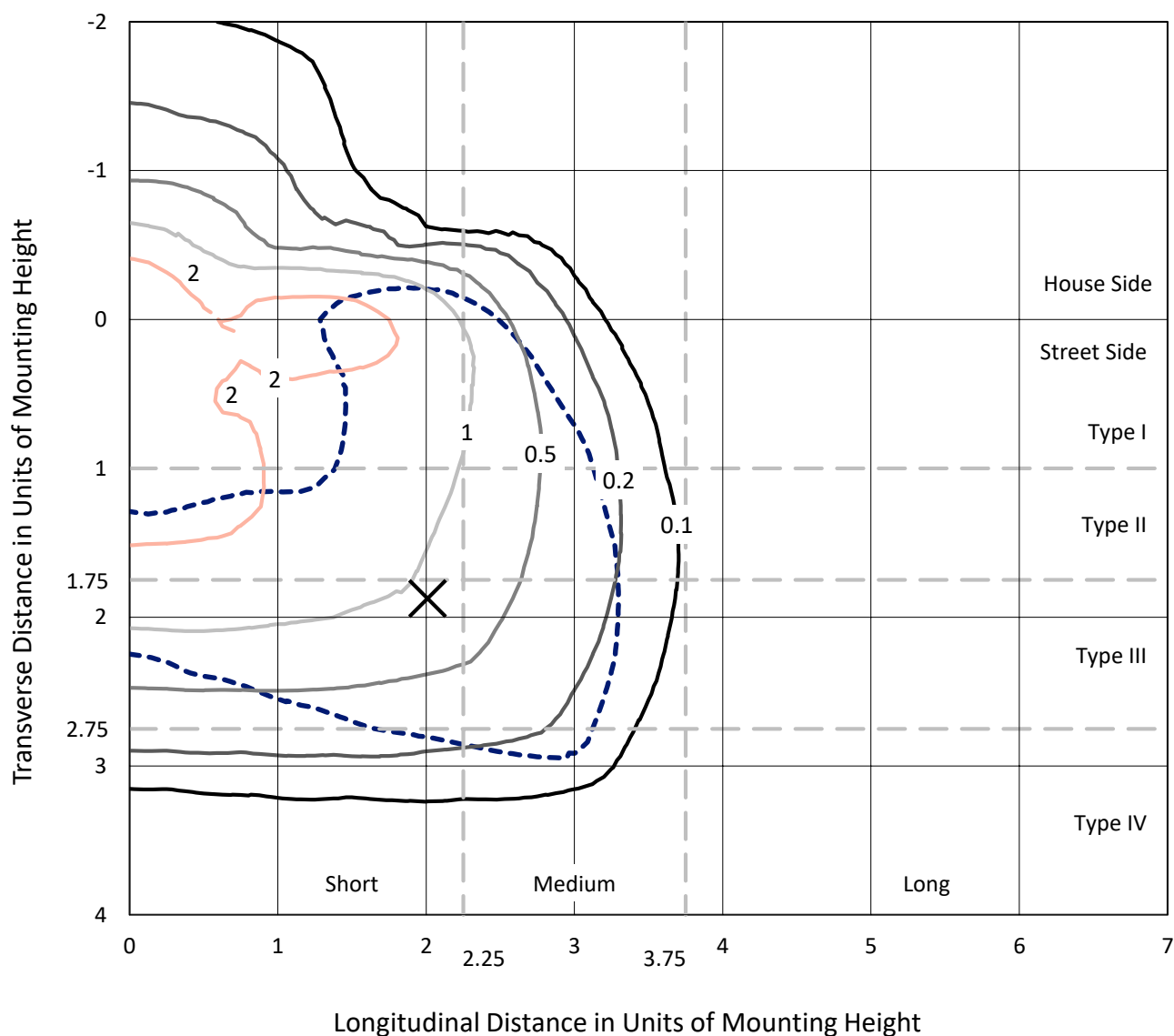


REPORT NUMBER: P193311

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4W-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

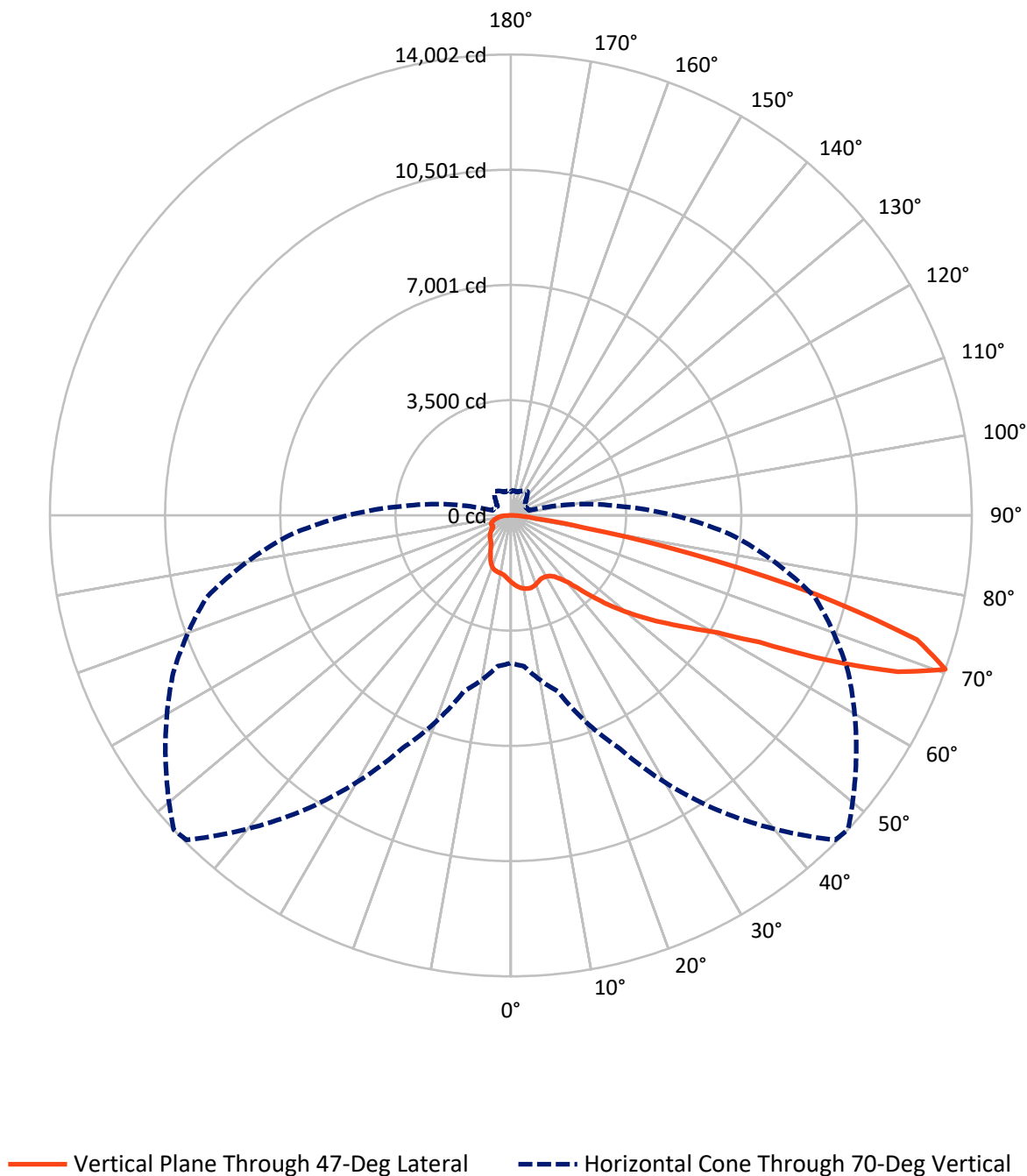


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193311

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4W-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P193311

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4W-7030

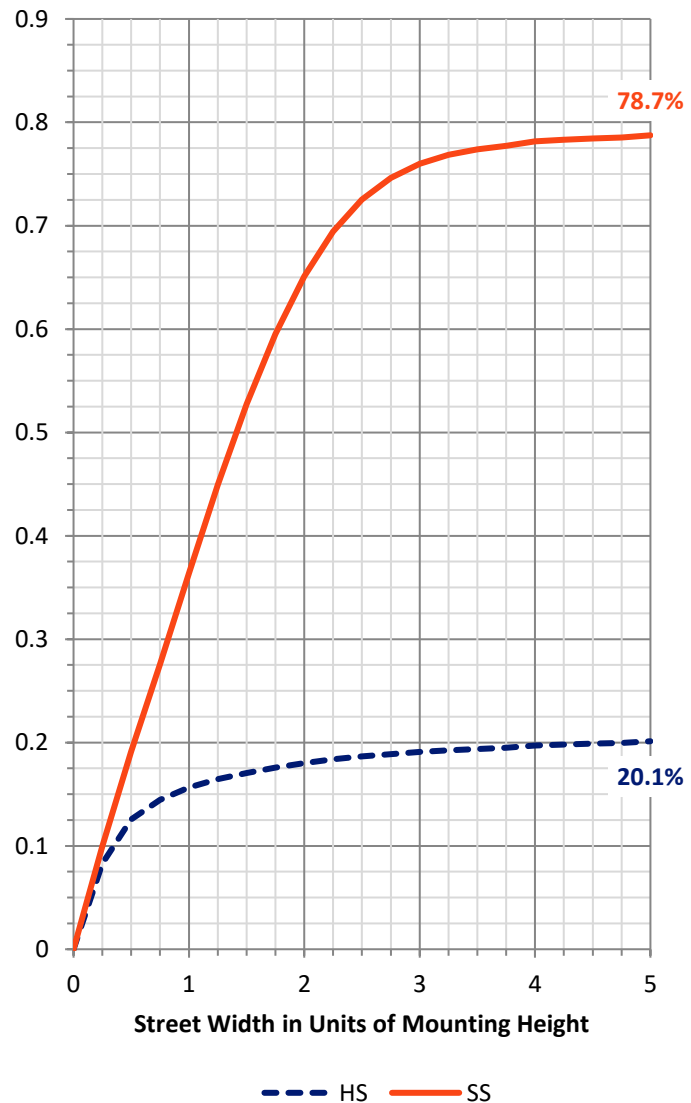
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3640.8	0.0	3640.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	13811.2	0.0	13811.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	17452.0	0.0	17452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	1.1
10°-20°	569.2	3.3
20°-30°	840.6	4.8
30°-40°	1221.8	7.0
40°-50°	2198.8	12.6
50°-60°	3809.1	21.8
60°-70°	5436.8	31.2
70°-80°	2790.9	16.0
80°-90°	390.7	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°	17452.0	100.0
0°-180°	17452.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193311

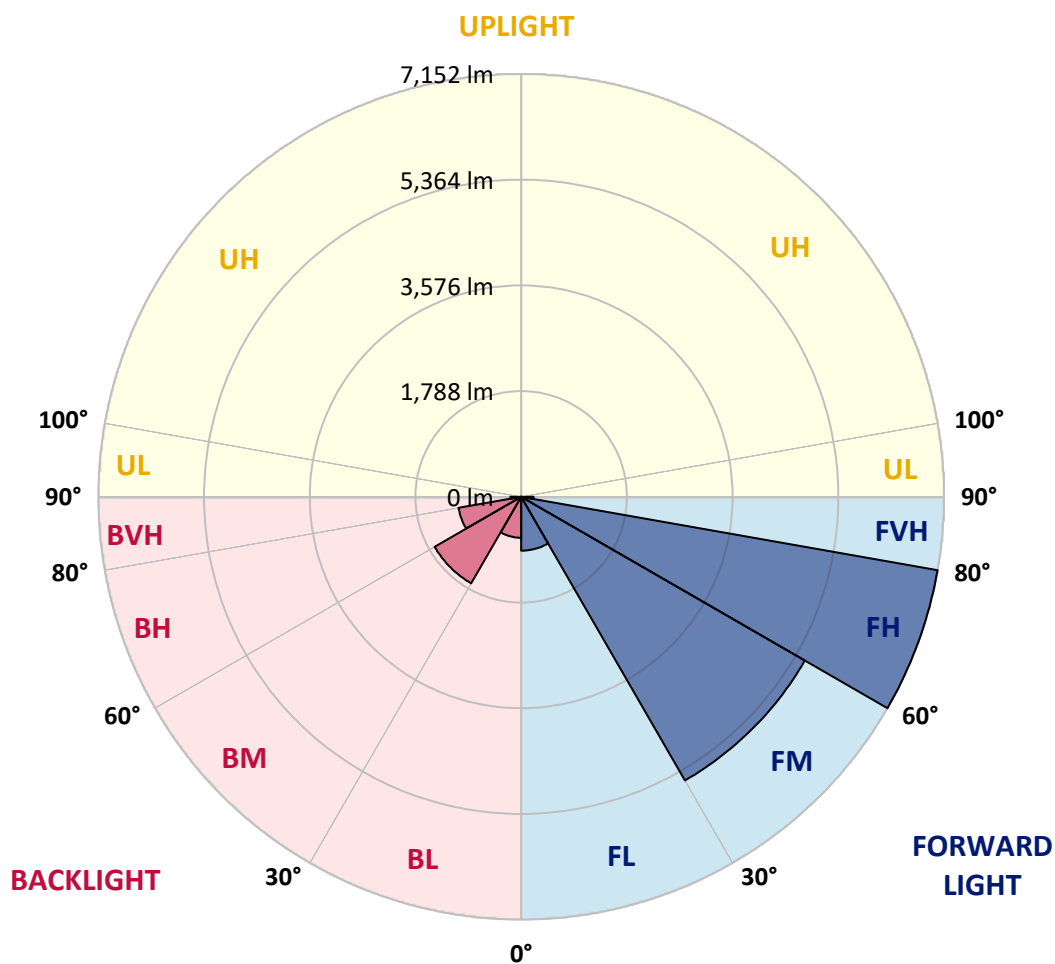
CATALOG NUMBER: GLEON-AF-03-LED-E1-T4W-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	910.6	5.2			
FM	(30°-60°)	5539.7	31.7			
FH	(60°-80°)	7152.3	41.0			G3/7500
FVH	(80°-90°)	208.5	1.2			G2/225
BL	(0°-30°)	693.2	4.0	B2/1000		
BM	(30°-60°)	1690.0	9.7	B2/2500		
BH	(60°-80°)	1075.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	182.2	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-G3

Type IV Short



REPORT NUMBER: P193311

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4W-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2143.8	2139.7	2137.8	2134.5	2130.2	2109.0	2104.8	2089.5	2068.3	2046.2	2023.3
5°	2284.8	2283.9	2274.6	2257.7	2230.4	2183.8	2172.7	2135.4	2085.2	2036.8	1988.5
7.5°	2408.7	2401.1	2383.3	2349.3	2301.8	2238.0	2222.8	2171.0	2102.2	2036.0	1970.6
10°	2499.7	2495.4	2456.2	2409.6	2347.7	2277.2	2259.3	2201.6	2125.9	2041.9	1960.4
12.5°	2551.4	2542.9	2497.8	2441.8	2367.9	2299.3	2281.4	2222.8	2137.8	2041.9	1946.0
15°	2548.0	2542.0	2497.0	2435.9	2361.2	2300.9	2284.8	2226.1	2135.4	2033.5	1927.4
17.5°	2480.0	2482.6	2444.3	2384.1	2323.0	2277.2	2262.8	2208.3	2118.3	2016.5	1905.3
20°	2361.2	2373.1	2347.7	2294.1	2260.1	2228.8	2219.4	2173.6	2092.1	1991.9	1881.5
22.5°	2242.3	2253.4	2243.2	2198.2	2193.1	2174.4	2169.4	2136.2	2069.2	1976.6	1867.0
25°	2154.9	2165.1	2163.4	2124.3	2139.7	2138.8	2134.5	2118.3	2064.0	1976.6	1869.7
27.5°	2131.1	2134.5	2131.1	2095.5	2116.7	2133.7	2130.2	2127.8	2079.3	2001.2	1901.8
30°	2212.6	2207.5	2181.3	2109.0	2128.6	2152.3	2148.9	2150.7	2125.2	2065.8	1974.0
32.5°	2537.8	2514.8	2431.7	2228.8	2177.0	2189.7	2191.4	2219.4	2223.7	2165.1	2086.1
35°	3024.3	2998.8	2891.0	2549.7	2327.2	2283.1	2283.1	2325.6	2351.0	2307.7	2260.1
37.5°	3539.7	3511.7	3453.9	2994.6	2643.1	2445.2	2441.0	2470.7	2507.3	2517.5	2529.4
40°	4125.5	4095.8	4112.0	3493.8	3083.8	2726.2	2666.0	2644.7	2743.3	2808.6	2903.8
42.5°	4766.6	4753.0	4758.9	4049.9	3585.6	3146.5	3060.8	2951.3	3070.1	3186.4	3386.0
45°	5360.0	5371.9	5365.9	4645.1	4144.2	3659.4	3568.5	3356.2	3472.6	3672.1	3997.4
47.5°	5879.7	5830.4	5906.8	5295.5	4769.9	4233.4	4121.3	3836.8	3954.8	4201.1	4751.2
50°	6510.4	6503.6	6391.6	6163.2	5526.5	4809.8	4662.9	4333.6	4516.9	4859.1	5701.3
52.5°	7173.6	7050.5	6947.7	6838.2	6328.8	5400.8	5220.7	4828.5	5177.5	5607.9	6859.4
55°	7309.5	7254.3	7381.5	7565.8	7102.3	6014.6	5805.0	5449.2	5921.2	6463.8	8195.0
57.5°	7599.8	7599.0	7862.2	8190.7	7898.7	6665.9	6454.5	6199.0	6757.5	7444.4	9612.8
60°	7795.9	7851.2	8340.2	8977.9	8680.6	7418.1	7223.6	7064.0	7708.5	8540.6	10934.0
62.5°	7898.7	7973.4	8640.8	9297.1	9786.2	8670.5	8476.0	8245.9	8966.8	9742.7	11706.6
65°	7471.5	7618.4	8594.0	9573.0	10754.1	10700.6	10613.1	10208.9	10540.0	10692.8	11427.3
67.5°	6289.7	6440.0	7576.0	9315.8	11445.1	12658.4	12677.2	11986.9	11507.9	10774.4	9607.8
70°	4481.3	4599.3	5539.2	7810.4	10918.8	13937.8	14001.6	12806.2	11315.2	9555.2	6712.6
72.5°	2127.8	2199.8	3089.7	5083.3	8664.5	12770.4	12893.5	11760.1	9621.4	7074.2	3662.0
75°	782.0	804.0	1044.3	2162.6	5025.5	9417.6	9562.8	8430.1	6378.0	3521.9	1395.0
77.5°	468.7	483.2	585.8	912.8	1976.6	5382.9	5597.8	4584.8	2787.4	1310.9	686.0
80°	327.8	337.9	420.3	568.0	933.9	2051.4	2242.3	1871.3	1110.5	829.5	499.2
82.5°	221.6	226.7	295.4	383.7	620.7	732.7	790.5	832.1	748.9	617.2	316.8
85°	145.2	150.2	200.4	253.1	394.8	378.7	387.3	489.9	546.8	419.4	175.8
87.5°	83.2	86.7	120.5	135.1	193.6	160.5	162.1	258.1	349.8	282.8	107.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P193311

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2017.4	2006.3	1981.6	1966.3	1951.9	1948.5	1942.6	1941.7	1940.9	1940.9	1938.4
5°	1972.3	1953.7	1915.5	1894.2	1876.4	1874.7	1873.8	1878.0	1879.8	1881.5	1878.9
7.5°	1943.5	1918.0	1870.4	1839.9	1818.6	1813.6	1822.0	1841.6	1854.3	1859.4	1856.9
10°	1925.5	1894.2	1839.1	1805.9	1788.1	1785.6	1796.5	1819.5	1845.8	1856.0	1855.1
12.5°	1905.3	1869.7	1811.0	1776.2	1766.0	1771.1	1785.6	1806.8	1833.9	1850.1	1851.0
15°	1884.8	1843.3	1783.0	1752.4	1748.1	1754.9	1768.6	1784.6	1805.9	1822.0	1823.7
17.5°	1860.2	1817.0	1756.7	1725.3	1721.8	1725.3	1726.1	1734.6	1748.1	1763.5	1767.7
20°	1833.9	1789.7	1727.0	1695.6	1680.3	1666.6	1651.4	1653.1	1657.4	1672.6	1676.0
22.5°	1815.3	1771.1	1704.0	1660.7	1620.0	1579.3	1548.6	1544.4	1546.1	1558.8	1563.1
25°	1817.0	1770.2	1698.1	1623.4	1534.2	1468.9	1428.1	1421.4	1420.5	1429.7	1435.7
27.5°	1850.1	1803.4	1720.2	1585.2	1440.8	1344.0	1300.7	1295.6	1288.8	1291.5	1298.2
30°	1923.9	1880.7	1773.6	1546.1	1339.8	1221.7	1176.7	1171.7	1162.3	1158.1	1163.2
32.5°	2044.5	2008.8	1851.7	1508.8	1238.8	1117.4	1071.5	1060.5	1054.5	1049.4	1053.7
35°	2244.8	2229.6	1956.2	1468.0	1149.6	1036.7	995.2	978.1	969.5	979.0	985.7
37.5°	2559.1	2567.5	2092.9	1404.3	1080.8	983.3	948.4	928.8	916.1	923.8	931.4
40°	3004.0	3009.9	2244.0	1314.3	1021.3	951.7	914.4	896.6	878.8	865.3	864.4
42.5°	3588.1	3527.8	2392.6	1216.7	952.6	932.2	890.7	868.6	841.4	804.0	796.4
45°	4280.9	4069.5	2505.6	1104.6	875.3	908.5	864.4	833.7	791.4	750.5	746.4
47.5°	5079.0	4651.0	2560.7	988.2	803.2	873.6	832.1	783.7	730.2	709.7	707.2
50°	6053.7	5341.3	2587.0	875.3	740.3	827.8	785.3	728.4	683.5	679.3	676.7
52.5°	7163.4	6171.7	2595.6	782.9	688.6	768.4	747.2	691.9	656.3	659.7	659.7
55°	8324.9	7029.2	2480.0	715.7	641.1	707.2	721.6	677.5	647.8	661.4	666.5
57.5°	9391.3	7789.1	2116.7	664.0	596.0	660.6	712.4	691.2	670.8	725.9	729.3
60°	10209.7	8238.2	1580.9	617.2	562.9	644.4	737.0	743.0	748.0	879.6	897.4
62.5°	10381.3	8088.9	1086.8	580.7	547.6	658.0	782.0	782.9	776.9	868.6	879.6
65°	9594.2	7143.9	790.5	560.4	535.0	682.7	820.2	802.4	763.2	832.9	812.6
67.5°	7619.3	5382.1	658.0	545.1	516.2	680.9	861.0	820.2	755.6	815.9	782.9
70°	4945.7	3254.4	585.8	532.3	494.2	648.7	884.7	818.5	733.5	759.1	720.0
72.5°	2413.0	1455.3	537.4	513.6	471.2	603.6	883.9	803.2	710.6	709.0	687.7
75°	944.1	666.5	493.3	485.6	432.1	552.8	860.1	781.1	683.5	656.3	648.7
77.5°	552.8	475.5	437.2	444.0	385.4	501.8	825.2	743.0	646.2	613.8	605.4
80°	402.4	355.7	372.7	383.7	329.4	450.8	778.6	696.2	604.5	620.7	608.8
82.5°	258.1	229.2	302.2	313.2	274.2	399.1	727.6	647.0	546.0	495.8	483.9
85°	131.5	145.2	225.0	238.6	211.4	327.8	665.6	581.6	479.7	412.7	419.4
87.5°	73.9	99.3	143.4	160.5	149.4	252.2	540.0	479.7	391.3	318.4	280.1
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)