

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: P193240

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T3R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13211.6 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

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



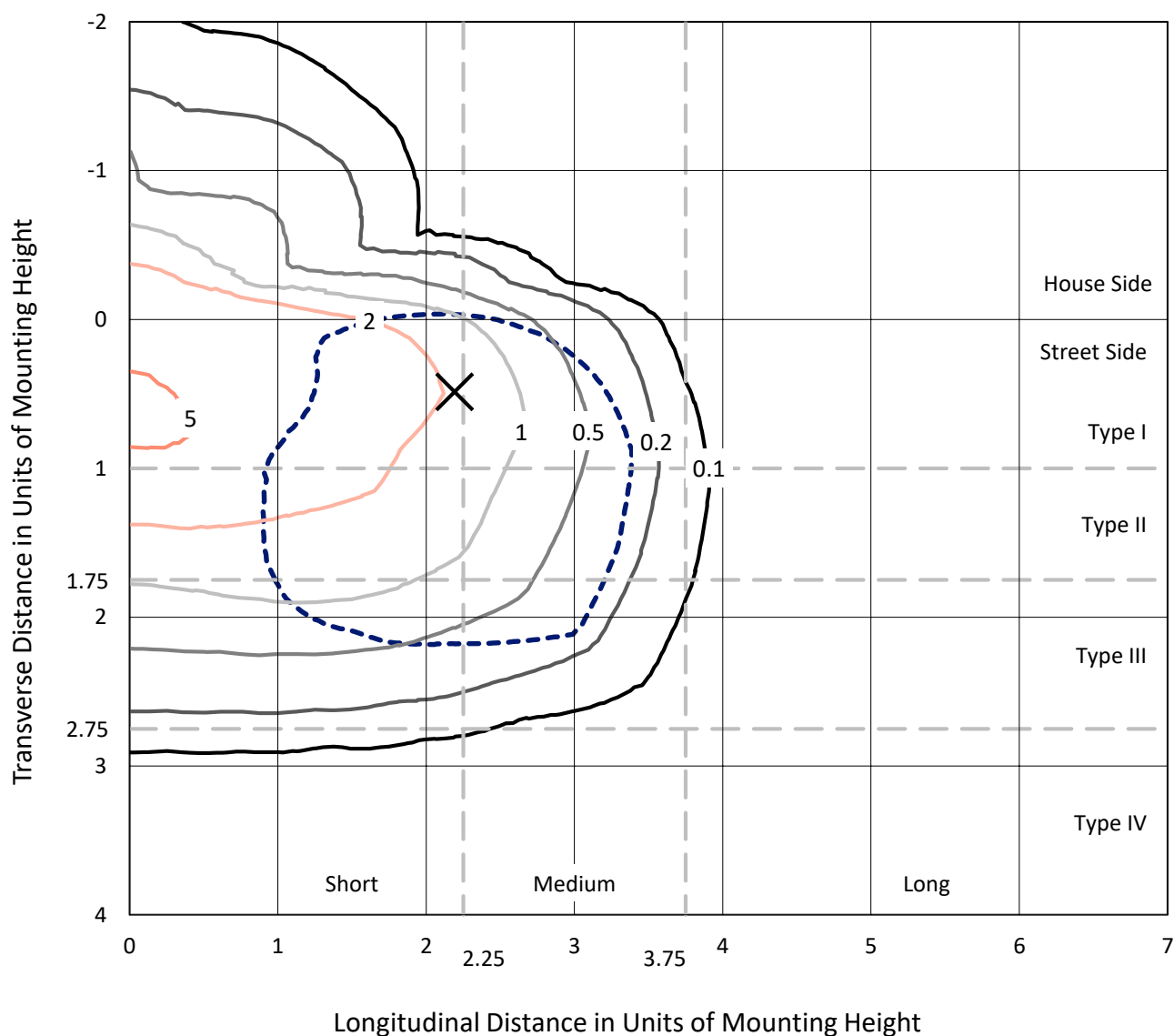
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

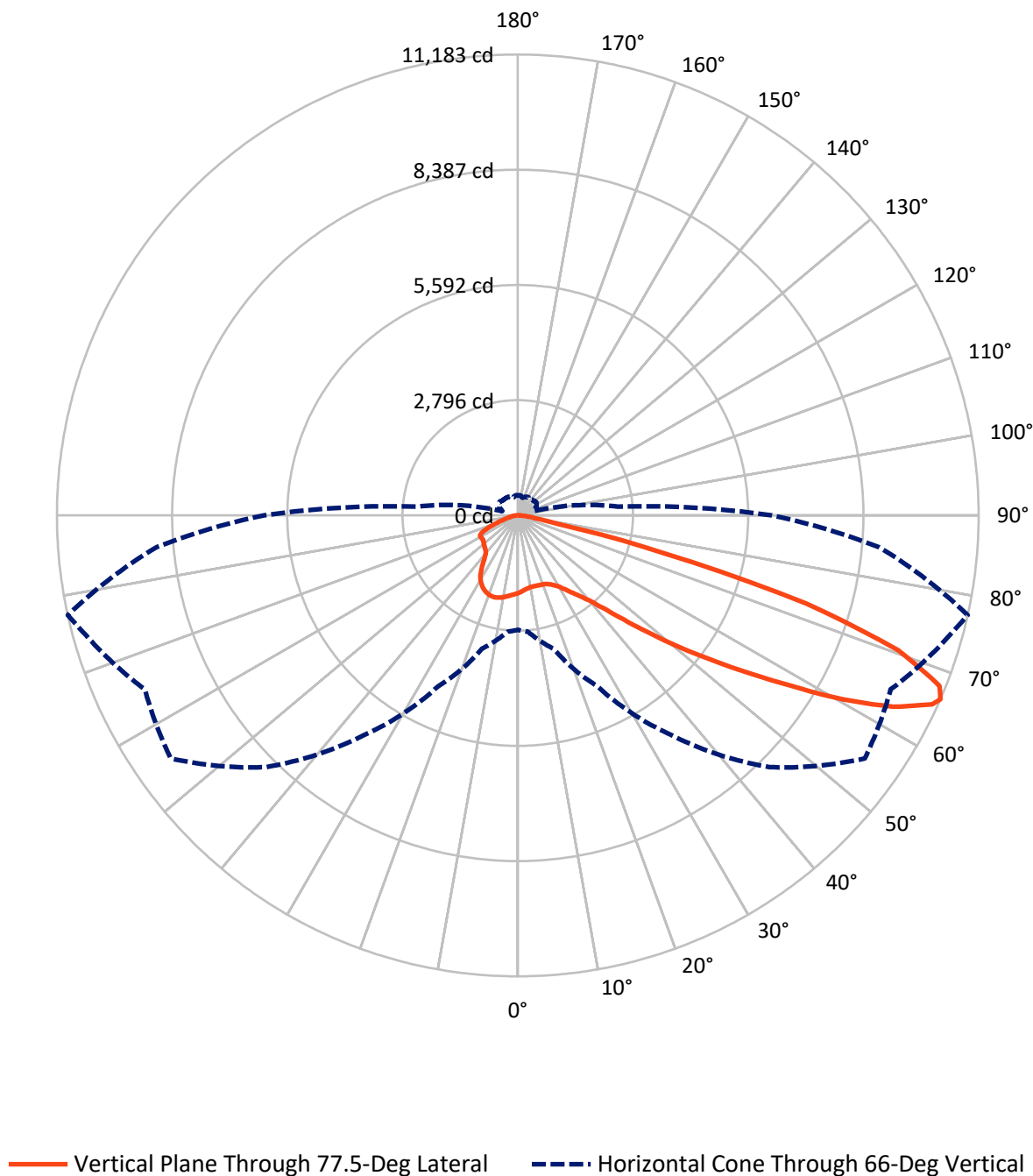


Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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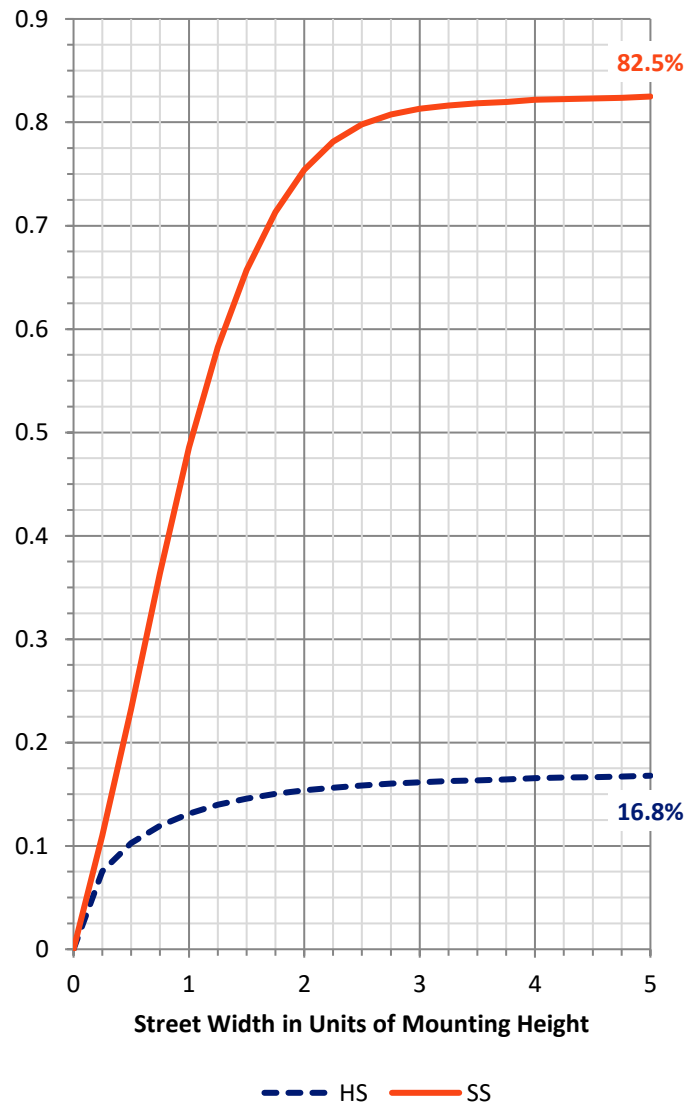
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2257.1	0.0	2257.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10954.5	0.0	10954.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	13211.6	0.0	13211.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	1.3
10°-20°	474.5	3.6
20°-30°	809.9	6.1
30°-40°	1296.4	9.8
40°-50°	2002.9	15.2
50°-60°	2840.8	21.5
60°-70°	3800.2	28.8
70°-80°	1650.4	12.5
80°-90°	168.3	1.3
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°	13211.6	100.0
0°-180°	13211.6	100.0

Coefficient of Utilization



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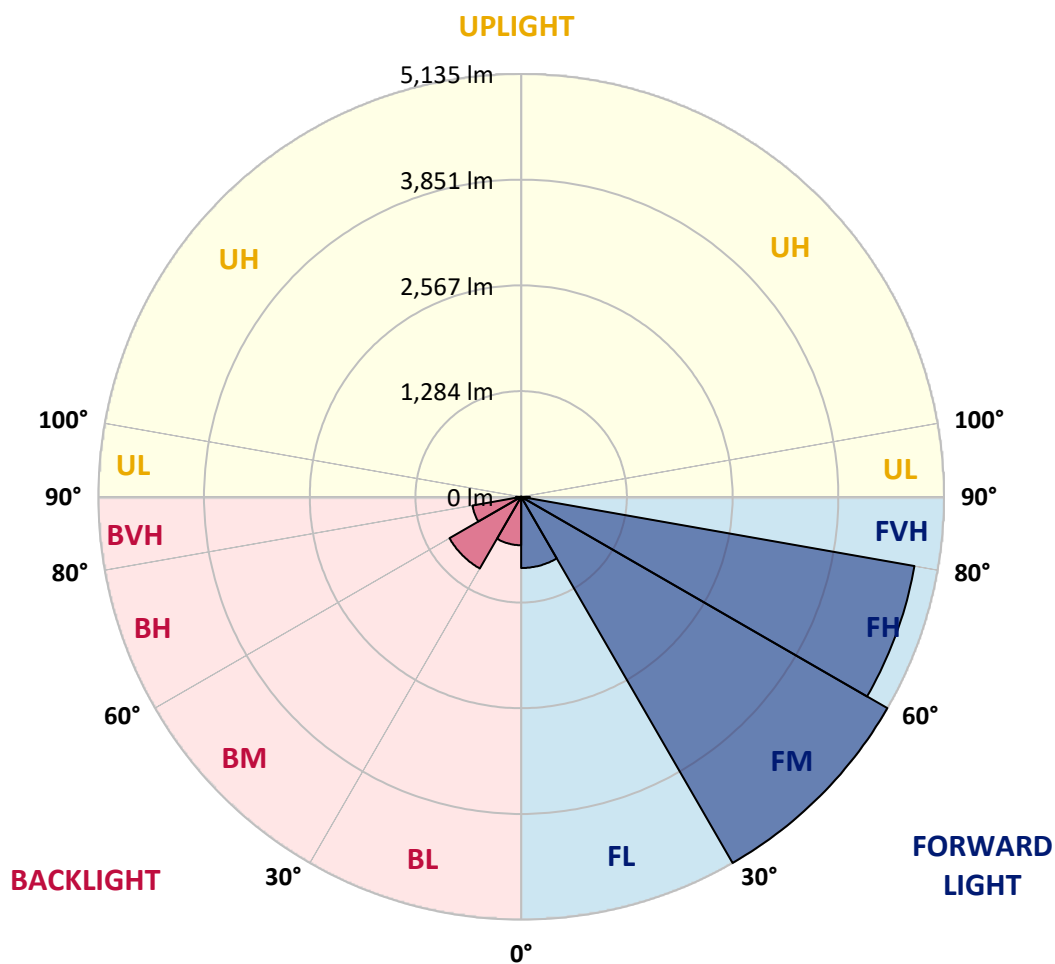
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	864.8	6.5			
FM	(30°-60°)	5134.7	38.9			
FH	(60°-80°)	4849.5	36.7			G2/5000
FVH	(80°-90°)	105.5	0.8			G2/225
BL	(0°-30°)	587.8	4.4	B2/1000		
BM	(30°-60°)	1005.4	7.6	B2/2500		
BH	(60°-80°)	601.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	62.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7
2.5°	1665.4	1676.7	1686.1	1694.8	1712.3	1741.0	1774.2	1800.9	1839.6	1847.1	1867.8
5°	1512.5	1512.5	1520.1	1533.1	1556.8	1599.9	1644.9	1704.8	1789.1	1809.0	1864.0
7.5°	1438.3	1438.8	1443.2	1454.5	1475.1	1514.5	1563.7	1634.3	1748.4	1781.6	1875.2
10°	1465.7	1459.4	1450.1	1444.5	1447.5	1470.7	1517.5	1596.2	1723.6	1765.9	1900.2
12.5°	1619.3	1607.4	1575.0	1532.0	1490.8	1473.8	1501.3	1578.1	1712.9	1762.3	1933.3
15°	1870.2	1865.3	1804.6	1715.4	1615.5	1532.0	1513.1	1571.2	1714.2	1766.6	1972.5
17.5°	2184.8	2178.0	2098.1	1968.2	1805.3	1642.3	1555.0	1576.8	1718.5	1774.2	2010.7
20°	2502.6	2481.4	2395.2	2240.4	2031.2	1792.8	1624.2	1591.3	1724.1	1782.2	2050.7
22.5°	2739.7	2722.3	2644.9	2494.5	2253.5	1967.0	1717.3	1616.2	1742.2	1805.9	2100.0
25°	2948.3	2949.6	2872.8	2727.3	2478.2	2151.8	1837.2	1682.9	1788.5	1854.6	2167.3
27.5°	3206.1	3191.1	3119.4	2975.1	2700.5	2338.3	1982.0	1774.7	1857.1	1923.9	2255.9
30°	3514.6	3503.8	3420.9	3257.3	2947.0	2538.7	2147.4	1881.5	1945.8	2015.1	2372.1
32.5°	3877.2	3872.1	3786.1	3575.6	3231.7	2774.7	2341.5	2022.5	2078.1	2149.9	2538.7
35°	4302.9	4303.5	4201.8	3948.9	3543.2	3049.4	2561.9	2204.2	2239.2	2314.1	2737.3
37.5°	4565.1	4597.0	4558.9	4301.0	3895.8	3356.6	2847.9	2445.1	2422.8	2498.2	2950.2
40°	4621.2	4660.0	4780.4	4649.4	4290.4	3694.9	3101.3	2676.8	2648.7	2741.1	3224.2
42.5°	4542.7	4596.3	4851.0	4943.4	4709.3	4111.9	3442.1	3020.7	2985.2	3109.4	3565.0
45°	4495.8	4535.8	4830.4	5096.3	5072.6	4583.2	3876.0	3452.7	3439.6	3602.5	3958.4
47.5°	4414.6	4450.9	4734.3	5131.9	5286.1	5015.2	4397.1	3980.8	4006.4	4219.9	4402.2
50°	4458.4	4473.3	4626.9	5041.4	5347.9	5331.7	4979.6	4592.6	4680.0	4946.5	4904.6
52.5°	4452.1	4490.8	4614.4	4892.8	5356.0	5527.1	5553.3	5274.8	5459.0	5764.8	5462.1
55°	3599.4	3670.6	4467.7	4855.4	5384.8	5718.7	6063.9	5994.0	6337.4	6693.8	6091.4
57.5°	3437.1	3482.0	3924.0	4934.0	5537.0	6084.5	6631.9	6785.5	7359.8	7773.7	6857.9
60°	3405.3	3460.8	3918.4	5030.2	5846.0	6680.6	7474.1	7743.7	8603.9	9057.1	7746.9
62.5°	3305.9	3366.0	3881.6	5017.6	6284.9	7505.2	8552.2	8762.5	9783.7	10224.5	8490.3
65°	2991.4	3047.6	3581.3	4816.0	6580.8	8385.4	9828.1	9696.4	10715.2	11046.6	8861.2
66°	2776.1	2830.9	3344.8	4578.8	6512.1	8635.2	10280.1	9985.4	10923.6	11183.3	8788.7
67.5°	2382.1	2425.2	2885.2	4047.6	6146.9	8705.1	10660.2	10202.6	10945.5	11037.3	8374.8
70°	1505.0	1517.5	1875.2	2794.1	4653.2	7549.6	10081.6	9663.3	10042.9	9794.4	7020.9
72.5°	653.0	648.6	900.2	1421.4	2634.3	5065.7	8155.1	7973.5	7877.9	7311.2	4914.7
75°	363.3	368.3	467.5	659.8	1070.6	2488.3	5334.8	5105.0	4310.4	3678.0	2228.6
77.5°	291.5	298.4	387.7	468.1	480.6	867.7	2496.3	2031.2	1222.9	981.2	619.3
80°	230.3	242.9	338.3	364.6	324.0	357.8	806.6	644.8	483.8	443.8	320.9
82.5°	182.3	190.9	290.3	275.9	226.6	240.9	386.4	376.4	314.6	286.5	185.4
85°	131.1	147.3	238.5	207.9	148.6	162.2	256.5	246.0	180.4	147.3	81.7
87.5°	53.6	69.9	168.6	138.0	83.0	75.5	128.0	120.5	85.5	62.4	40.5
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°	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7
2.5°	1880.9	1895.8	1915.2	1927.0	1933.3	1937.6	1944.5	1943.9	1945.8	1946.4	1948.8
5°	1893.4	1918.3	1946.4	1953.9	1953.9	1947.0	1940.1	1928.9	1924.5	1923.3	1924.5
7.5°	1925.8	1953.2	1977.6	1968.9	1950.2	1922.6	1887.1	1855.9	1839.1	1833.4	1832.2
10°	1967.0	2000.1	2010.1	1976.9	1922.1	1855.9	1785.3	1734.2	1704.8	1696.7	1694.2
12.5°	2016.9	2048.2	2034.4	1964.5	1862.8	1756.1	1658.7	1576.8	1515.7	1496.3	1495.1
15°	2071.9	2096.2	2048.2	1925.8	1774.2	1616.8	1443.2	1302.2	1226.0	1201.7	1199.7
17.5°	2123.0	2135.6	2040.0	1858.4	1643.6	1388.9	1158.5	1050.0	1023.8	1030.0	1031.3
20°	2166.7	2166.7	2012.5	1761.6	1438.3	1088.7	943.2	941.4	960.1	978.9	982.6
22.5°	2214.8	2186.1	1964.5	1624.9	1147.3	890.8	869.6	887.0	908.3	928.9	932.0
25°	2274.1	2201.7	1897.8	1417.6	902.1	809.1	817.1	831.5	842.1	855.2	857.1
27.5°	2340.4	2221.7	1809.7	1132.4	782.9	757.8	764.0	769.0	767.9	772.8	774.1
30°	2419.5	2244.7	1689.2	885.2	733.4	714.1	702.9	698.5	698.5	706.7	709.7
32.5°	2525.6	2279.1	1516.3	758.5	709.7	682.9	646.7	630.5	636.8	664.2	670.5
35°	2642.4	2316.0	1282.1	715.4	704.7	668.5	612.4	582.5	583.0	608.7	616.8
37.5°	2769.7	2362.7	1025.6	707.2	715.9	669.2	594.3	553.1	536.3	536.3	539.3
40°	2932.7	2410.8	830.3	712.9	739.6	676.7	584.9	530.0	482.5	483.8	486.3
42.5°	3144.9	2452.0	725.4	724.7	768.4	686.7	584.3	499.5	458.3	486.3	511.9
45°	3380.9	2472.6	679.1	735.4	791.6	692.9	574.2	494.4	461.3	544.9	593.6
47.5°	3652.4	2460.7	653.6	739.1	797.1	692.9	563.1	506.3	483.2	631.1	687.9
50°	3950.3	2426.4	628.6	731.6	795.3	691.6	573.7	518.1	491.2	646.0	685.4
52.5°	4300.5	2397.7	602.3	715.4	782.2	684.8	586.1	513.1	465.7	587.4	614.9
55°	4699.9	2405.9	573.1	692.2	761.5	671.7	581.8	493.2	438.9	517.5	534.4
57.5°	5210.6	2502.6	538.1	662.9	733.4	649.9	566.2	483.8	430.7	469.4	479.4
60°	5780.5	2671.2	494.4	633.6	698.5	614.9	554.4	488.2	434.6	465.7	470.7
62.5°	6198.8	2769.1	456.9	590.5	651.0	576.2	539.3	493.8	444.4	478.8	477.6
65°	6312.4	2608.1	410.2	527.5	586.8	535.6	520.6	500.0	448.8	489.4	483.8
66°	6153.2	2434.6	389.5	498.1	554.4	515.6	511.3	499.5	447.0	490.7	481.3
67.5°	5766.8	2078.7	354.0	455.1	502.5	485.6	496.2	493.8	442.0	489.4	476.3
70°	4703.1	1418.3	302.7	378.9	418.3	427.6	467.5	473.7	425.8	467.5	438.9
72.5°	3286.0	863.9	267.8	294.0	338.3	364.6	428.2	446.4	403.9	408.3	380.8
75°	1588.1	458.8	242.9	227.8	262.8	304.7	380.8	408.8	369.6	341.4	331.5
77.5°	495.1	280.2	206.0	183.5	206.0	246.0	318.4	358.4	329.0	285.9	282.1
80°	265.9	206.0	158.5	147.3	162.9	192.9	250.3	299.1	282.8	256.5	229.1
82.5°	175.4	133.7	117.4	114.2	124.2	147.3	186.1	247.8	247.8	219.7	159.8
85°	90.4	81.7	80.6	80.6	86.8	98.0	126.7	190.9	203.5	116.2	96.1
87.5°	44.9	46.9	43.7	45.6	48.7	48.1	60.5	96.1	114.8	70.6	58.7
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)