

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: P193252

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T4FT-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15392.4 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - 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

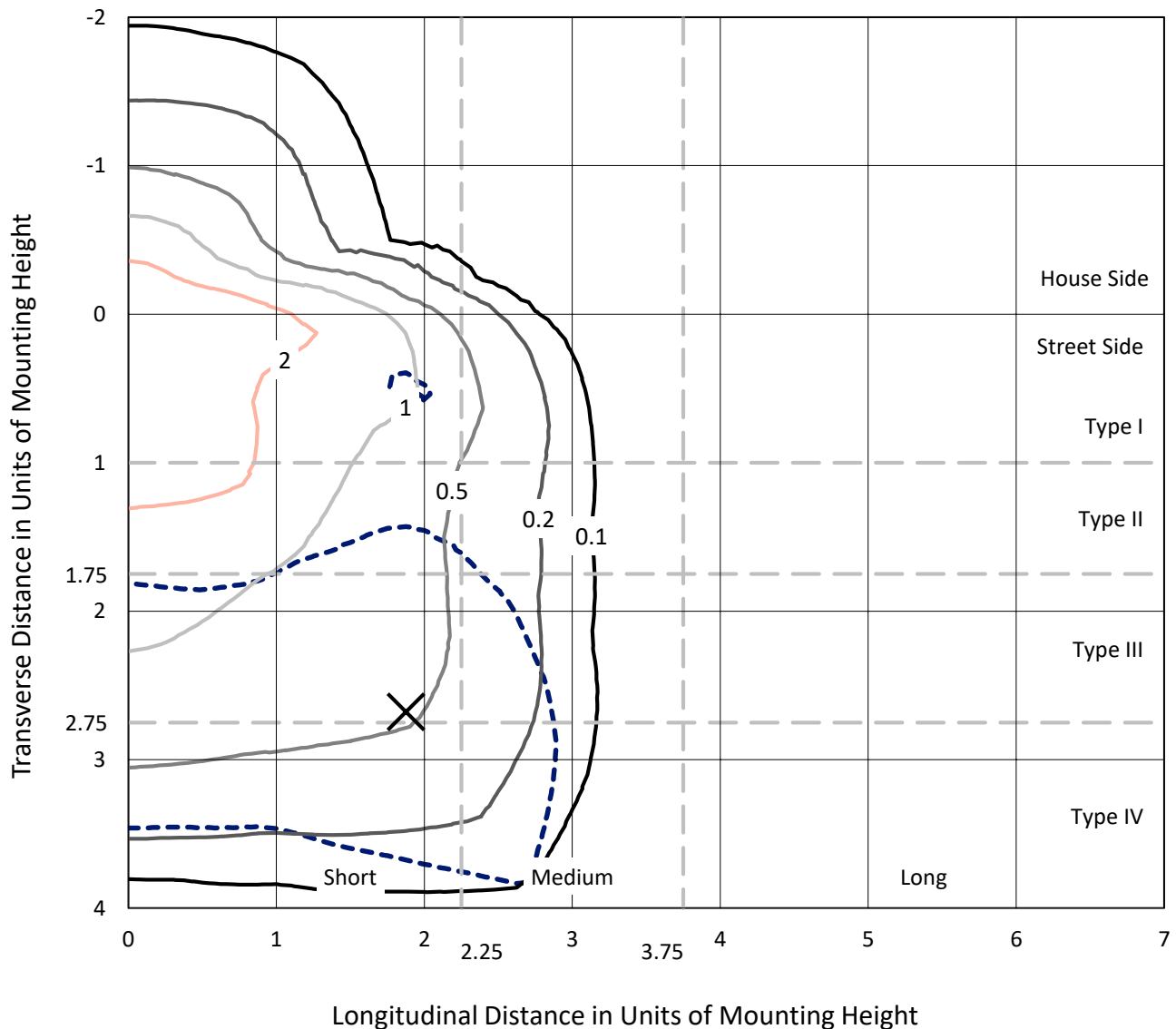


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

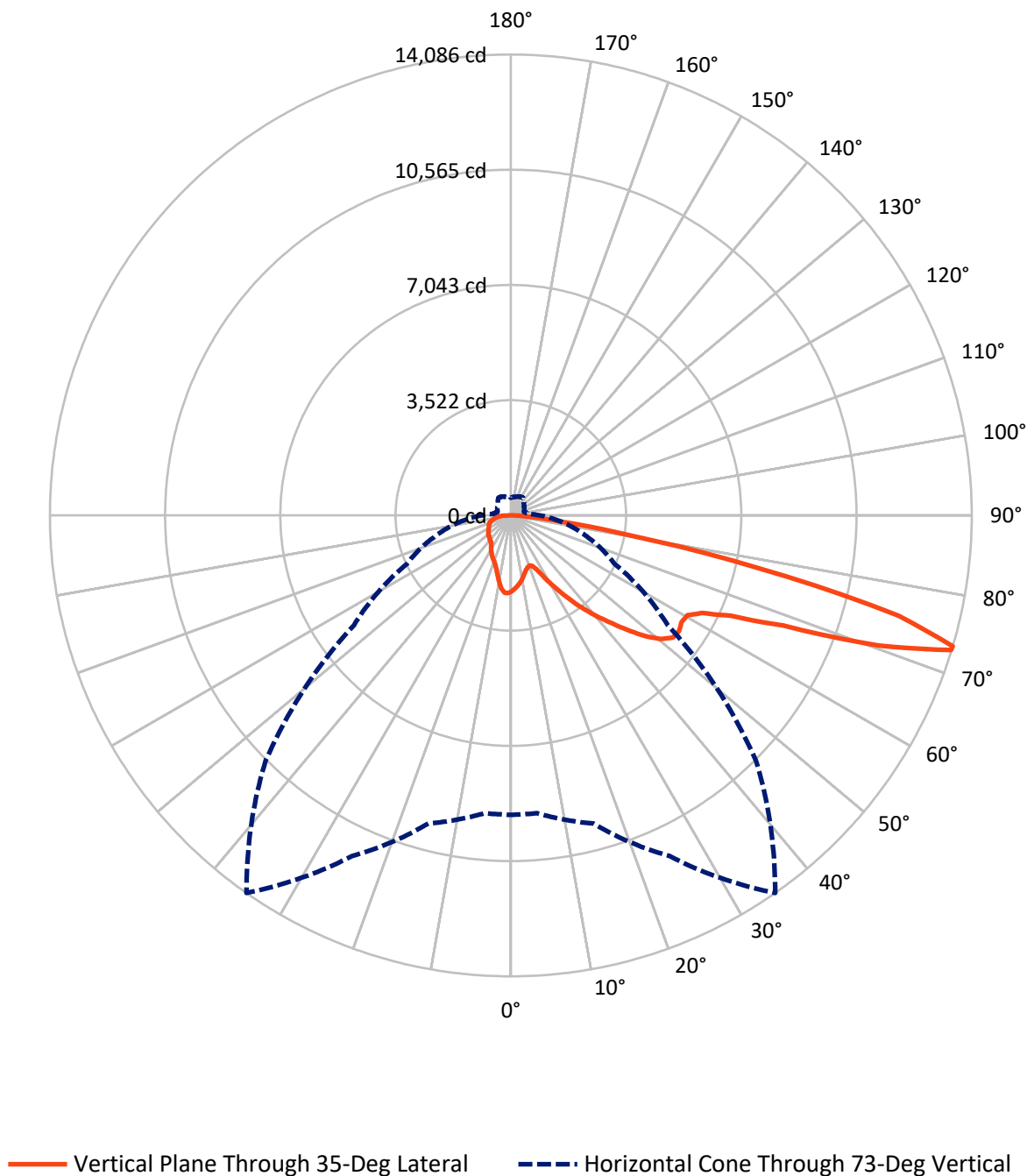


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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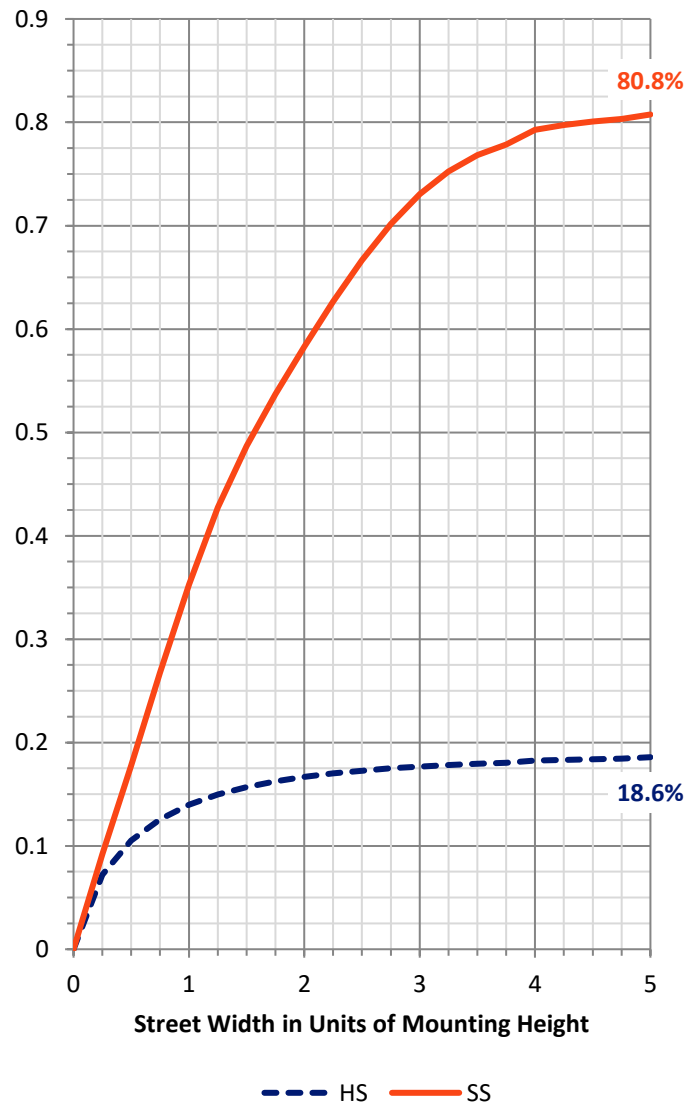
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2935.8	0.0	2935.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	12456.7	0.0	12456.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	15392.4	0.0	15392.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	1.4
10°-20°	524.9	3.4
20°-30°	848.6	5.5
30°-40°	1423.0	9.2
40°-50°	2193.5	14.3
50°-60°	2942.8	19.1
60°-70°	3920.4	25.5
70°-80°	2990.1	19.4
80°-90°	338.9	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°	15392.4	100.0
0°-180°	15392.4	100.0

Coefficient of Utilization



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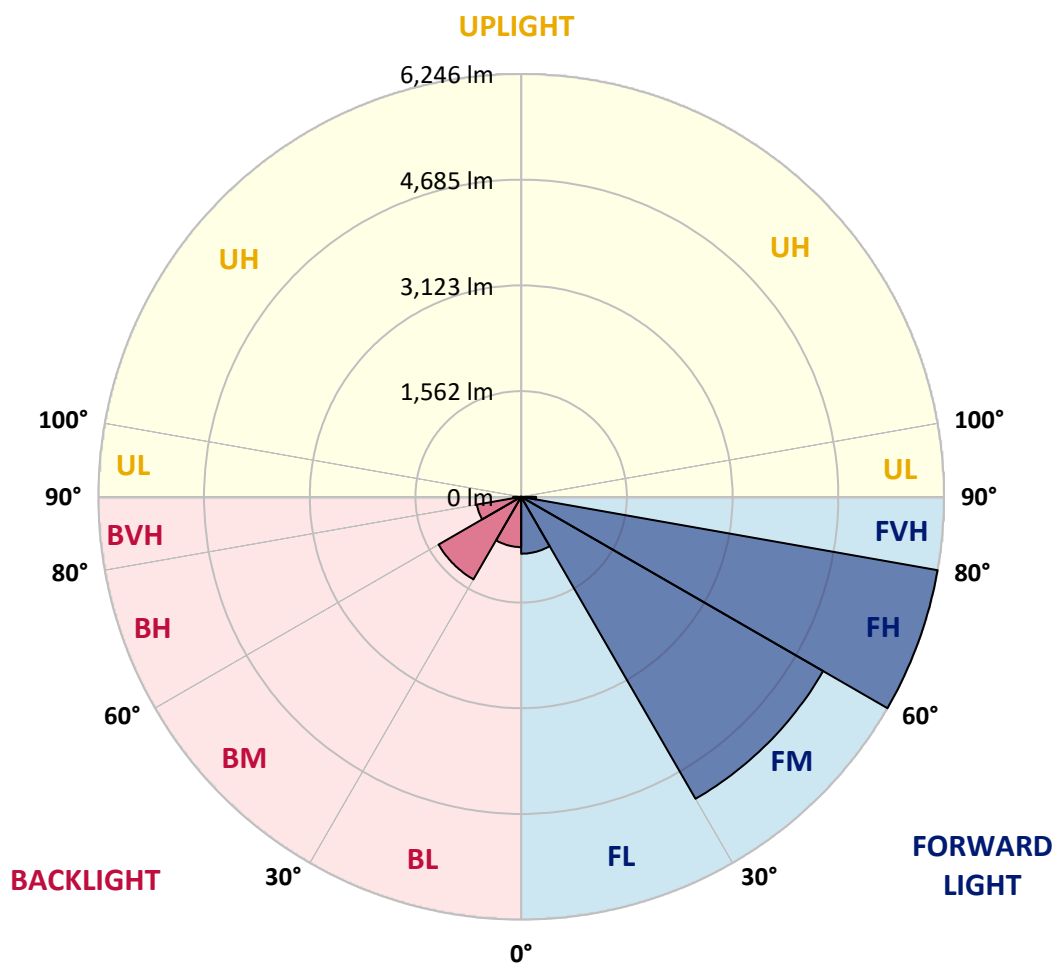
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	840.9	5.5			
FM	(30°-60°)	5150.4	33.5			
FH	(60°-80°)	6246.2	40.6			G3/7500
FVH	(80°-90°)	219.1	1.4			G2/225
BL	(0°-30°)	742.9	4.8	B2/1000		
BM	(30°-60°)	1408.8	9.2	B2/2500		
BH	(60°-80°)	664.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	119.8	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2
2.5°	2231.5	2236.0	2230.8	2237.4	2248.5	2260.3	2268.5	2280.3	2293.7	2312.2	2316.6
5°	2126.6	2133.3	2133.3	2145.1	2166.5	2185.7	2203.4	2222.7	2250.7	2282.5	2295.1
7.5°	2011.3	2015.0	2021.7	2039.4	2070.4	2097.8	2122.9	2153.9	2192.4	2234.5	2256.6
10°	1872.2	1877.5	1887.8	1912.9	1955.0	1992.8	2029.1	2071.9	2120.6	2173.1	2201.2
12.5°	1774.1	1772.5	1777.0	1795.4	1832.4	1878.1	1930.7	1985.4	2045.3	2106.6	2140.6
15°	1740.7	1732.7	1715.6	1711.2	1731.1	1777.0	1837.5	1904.8	1976.5	2050.5	2092.6
17.5°	1761.5	1747.4	1700.8	1666.9	1663.9	1698.7	1762.9	1838.3	1921.1	2011.3	2063.8
20°	1891.5	1858.3	1743.7	1664.6	1637.2	1654.3	1710.5	1790.2	1887.8	2007.5	2074.9
22.5°	2202.6	2153.9	1910.7	1763.7	1671.2	1650.6	1692.7	1777.6	1891.5	2053.4	2139.2
25°	2655.9	2586.3	2197.5	2010.5	1819.8	1709.7	1719.3	1806.5	1944.0	2159.8	2263.3
27.5°	3013.6	2968.5	2572.3	2358.7	2090.3	1869.3	1805.7	1878.9	2051.3	2334.4	2440.0
30°	3226.4	3199.1	2973.0	2753.5	2435.5	2123.7	1971.4	2015.0	2218.9	2576.0	2663.2
32.5°	3473.4	3457.1	3346.2	3144.4	2808.1	2457.7	2233.8	2218.3	2443.7	2866.5	2906.4
35°	3729.1	3723.9	3658.9	3514.0	3208.0	2898.3	2581.9	2476.9	2688.4	3168.1	3143.0
37.5°	3967.1	3958.3	3920.6	3836.3	3626.4	3371.3	2936.7	2742.3	2952.1	3456.3	3344.8
40°	4405.5	4336.0	4206.6	4143.0	4049.1	3769.8	3218.3	2989.9	3225.8	3731.3	3519.1
42.5°	4939.8	4826.7	4585.8	4498.5	4485.3	4083.9	3410.5	3230.1	3501.4	4004.1	3690.7
45°	5360.5	5253.9	5046.2	4936.2	4985.0	4368.5	3603.5	3486.7	3785.3	4290.1	3867.3
47.5°	5809.1	5642.0	5367.1	5400.3	5506.7	4637.5	3800.0	3762.4	4096.4	4610.2	4086.9
50°	5825.3	5697.6	5577.0	5775.9	5941.4	4885.2	4046.2	4051.4	4477.1	5013.1	4378.8
52.5°	5487.5	5460.2	5651.7	5964.4	6203.0	5081.0	4326.3	4349.9	4964.2	5475.7	4699.6
55°	5369.3	5338.3	5559.2	5898.6	6238.6	5243.0	4630.2	4673.0	5553.3	5963.6	5012.3
57.5°	5657.6	5588.8	5603.6	5867.6	6152.1	5420.4	4961.3	5047.8	6193.5	6390.1	5213.3
60°	6463.2	6316.2	6036.8	6030.1	6198.6	5686.4	5344.2	5449.9	6858.7	6594.2	5134.9
62.5°	7593.4	7446.3	6923.0	6582.4	6557.0	6125.5	5814.2	5842.4	7243.2	6317.7	4656.7
65°	8816.7	8685.2	8100.5	7619.3	7387.2	6852.8	6360.5	6017.6	7117.4	5557.0	3820.0
67.5°	10301.7	10160.6	9658.0	9213.8	8990.5	8026.6	6744.1	5849.7	6319.9	4305.0	2746.0
70°	11340.2	11196.2	10998.0	11358.0	11904.3	9720.0	6793.6	5167.5	4720.3	2861.3	1652.8
72.5°	9985.4	9918.1	10279.5	11795.6	14070.7	10747.5	6141.0	3762.4	2741.6	1519.0	956.4
73°	9148.6	9133.8	9750.3	11488.8	14086.2	10589.3	5854.9	3497.0	2351.3	1343.8	874.4
75°	4131.2	4250.1	5601.4	8775.3	12238.3	8725.9	4120.8	2006.1	1328.3	928.3	660.0
77.5°	992.7	1034.1	1752.5	4167.3	7728.7	5200.0	1867.1	992.0	849.3	655.7	482.0
80°	422.9	436.8	674.9	1539.7	3638.9	2094.1	860.4	664.6	587.6	457.6	337.8
82.5°	235.0	249.8	382.9	698.5	1468.8	714.0	524.8	462.7	386.6	275.7	219.5
85°	133.1	141.2	224.0	390.3	622.3	286.8	314.1	307.4	218.1	141.9	107.9
87.5°	62.9	68.0	107.9	181.1	243.9	112.3	159.6	175.9	136.8	86.6	56.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2
2.5°	2321.8	2335.0	2350.5	2358.7	2366.1	2375.0	2383.8	2383.8	2385.2	2386.0
5°	2305.5	2332.8	2357.2	2367.5	2369.8	2369.8	2367.5	2355.7	2345.4	2349.8
7.5°	2271.5	2311.4	2332.0	2328.5	2300.2	2267.7	2240.4	2207.1	2190.1	2187.2
10°	2222.7	2268.5	2272.1	2235.2	2165.7	2096.2	2038.7	1982.4	1955.8	1949.1
12.5°	2168.7	2210.9	2187.2	2111.1	1999.5	1898.2	1824.9	1768.1	1742.9	1736.3
15°	2125.1	2153.9	2094.1	1974.4	1833.9	1726.8	1666.1	1623.9	1606.2	1601.0
17.5°	2102.1	2108.0	1998.7	1836.8	1687.5	1598.0	1560.3	1540.4	1533.8	1530.0
20°	2113.3	2071.9	1907.7	1709.0	1567.8	1504.9	1496.1	1491.0	1489.4	1487.2
22.5°	2168.7	2060.8	1824.3	1587.7	1462.8	1435.4	1442.9	1442.1	1440.6	1439.2
25°	2267.7	2070.4	1742.9	1472.4	1374.8	1368.9	1382.2	1382.2	1376.3	1376.3
27.5°	2398.6	2090.3	1652.0	1363.0	1295.0	1295.7	1306.0	1303.1	1296.5	1292.1
30°	2558.3	2102.9	1545.6	1264.6	1220.3	1217.3	1220.3	1207.8	1187.8	1186.3
32.5°	2721.6	2087.4	1422.1	1177.5	1141.3	1134.6	1132.4	1114.7	1091.7	1085.1
35°	2869.4	2030.5	1296.5	1108.0	1065.9	1051.1	1061.5	1055.6	1034.8	1029.7
37.5°	2977.4	1924.8	1183.4	1046.7	1012.0	1008.3	1014.9	1017.1	992.7	987.4
40°	3049.8	1781.4	1086.6	995.0	1001.6	987.4	965.3	949.8	942.5	940.1
42.5°	3108.2	1632.2	1005.3	970.6	1003.8	963.1	915.0	889.9	903.2	909.1
45°	3175.4	1486.5	937.2	940.1	992.7	935.0	880.3	855.9	861.2	862.6
47.5°	3267.8	1309.0	864.1	891.4	955.7	915.8	858.9	824.2	799.8	788.8
50°	3395.8	1099.1	788.0	836.7	919.5	901.8	825.7	788.8	743.6	733.2
52.5°	3484.4	903.2	725.2	790.9	886.9	873.7	799.0	750.9	703.7	694.8
55°	3436.4	750.3	670.5	739.9	844.1	839.0	776.9	712.6	675.6	668.2
57.5°	3196.2	653.4	628.2	691.8	791.7	809.4	747.4	680.0	653.4	648.2
60°	2737.8	592.8	601.7	659.4	748.8	779.8	717.8	662.3	644.5	640.8
62.5°	2124.3	552.2	581.7	635.7	715.5	759.2	701.5	660.0	653.4	649.0
65°	1522.0	519.6	560.3	612.1	685.2	739.9	695.6	657.0	658.7	654.9
67.5°	1034.1	490.8	534.4	585.4	655.7	722.9	687.5	646.9	665.3	660.8
70°	723.7	462.7	504.1	551.4	618.7	699.3	672.6	631.3	629.8	612.1
72.5°	564.8	425.8	462.7	504.1	571.4	665.9	643.1	596.5	572.1	553.6
73°	538.8	417.0	452.4	493.8	561.0	657.8	634.9	586.9	559.5	542.6
75°	445.7	378.5	411.0	448.0	516.7	619.4	595.0	543.2	508.5	498.2
77.5°	350.4	323.7	354.8	388.1	455.3	563.2	535.9	486.4	467.2	458.3
80°	259.5	268.3	295.6	325.3	394.8	503.3	479.0	429.5	515.1	493.8
82.5°	182.6	203.2	228.4	255.0	331.2	445.0	415.4	364.4	377.0	313.3
85°	107.9	133.1	156.7	179.6	238.7	368.9	343.0	290.5	237.9	226.9
87.5°	62.9	74.0	80.6	104.3	164.1	277.9	241.7	215.1	123.5	83.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)