

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: P193261

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193261
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-03-LED-E1-T4FT-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA 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: 14284.6 lumens
Efficiency: N/A
Efficacy: 115.2 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): 124
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



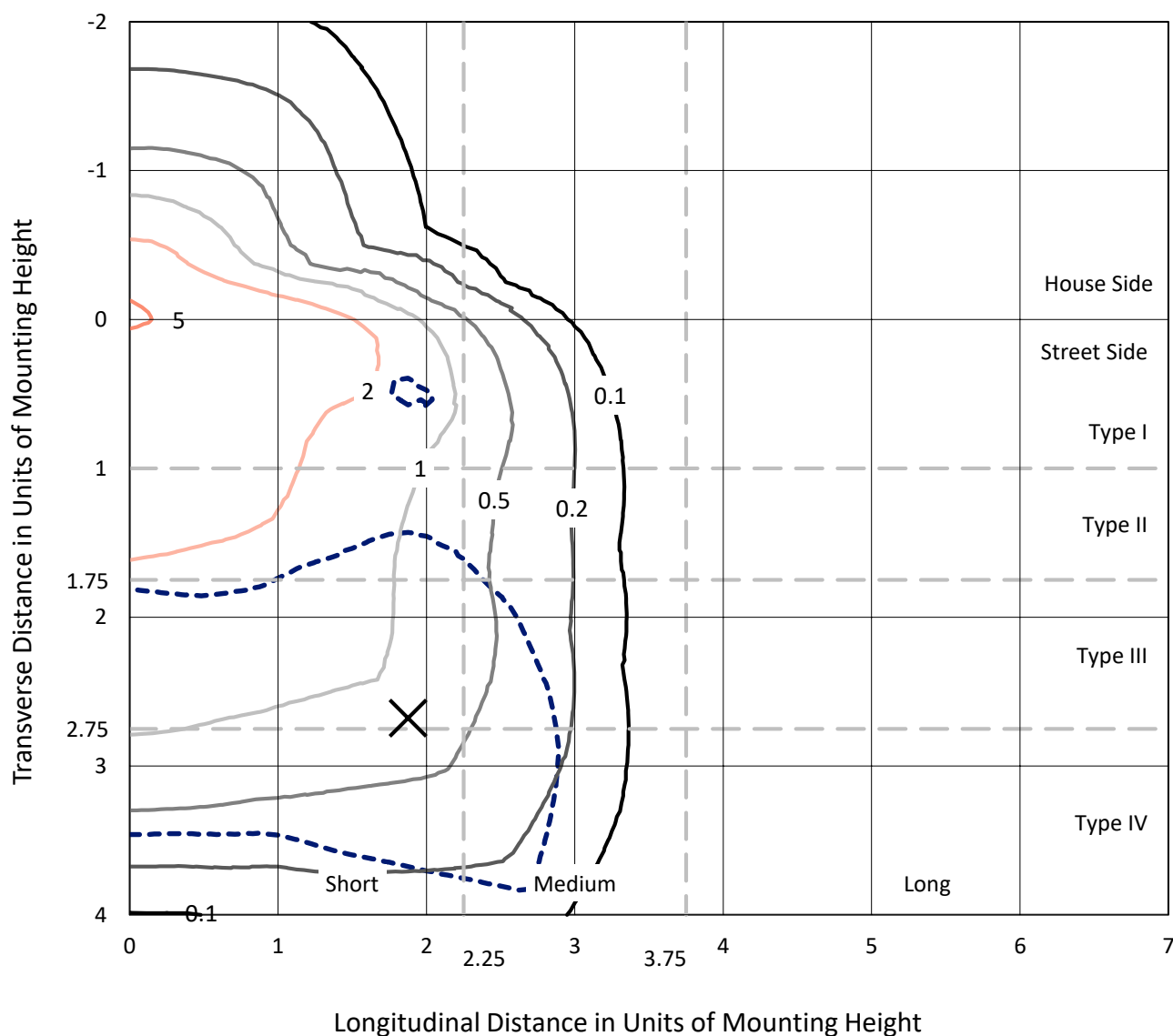
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

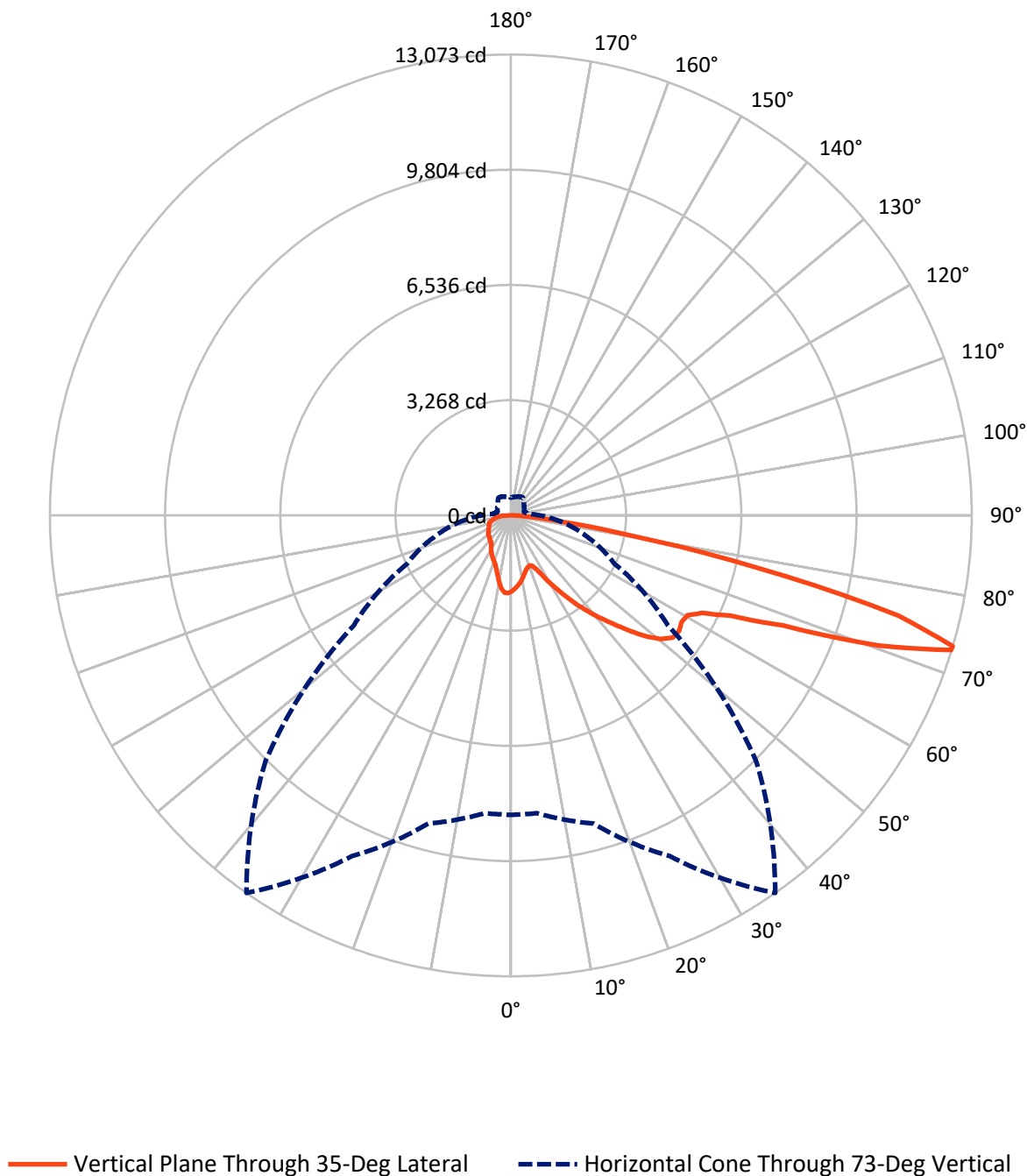


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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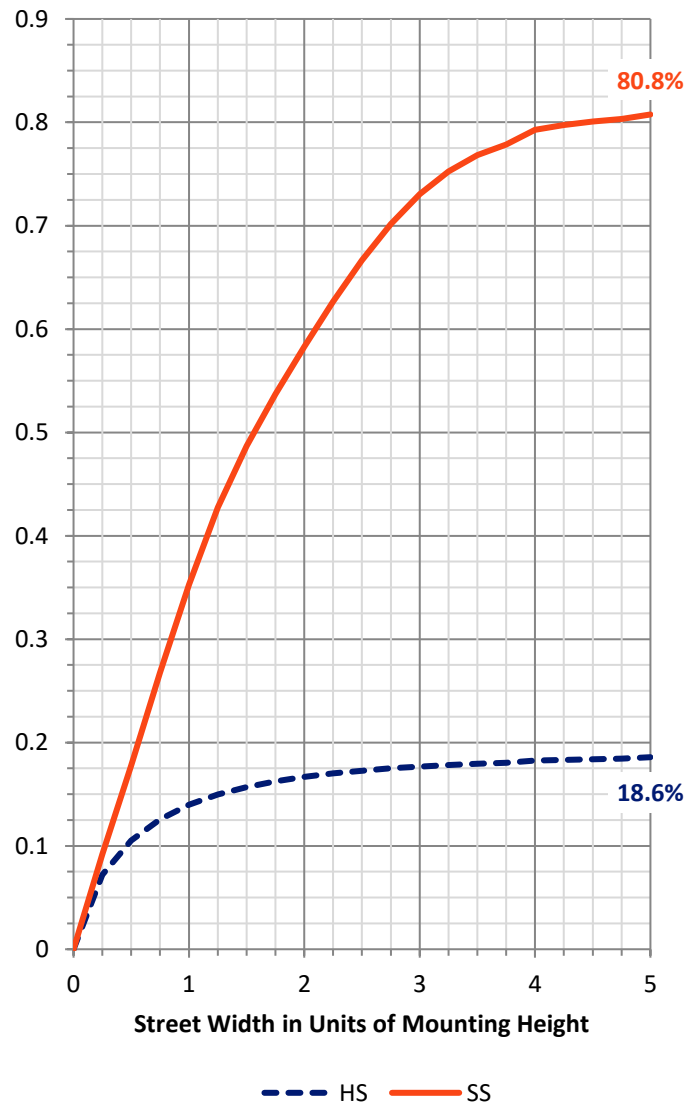
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2724.5	0.0	2724.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	11560.1	0.0	11560.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	14284.6	0.0	14284.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	1.4
10°-20°	487.1	3.4
20°-30°	787.5	5.5
30°-40°	1320.6	9.2
40°-50°	2035.6	14.3
50°-60°	2731.0	19.1
60°-70°	3638.2	25.5
70°-80°	2774.8	19.4
80°-90°	314.5	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°	14284.6	100.0
0°-180°	14284.6	100.0

Coefficient of Utilization



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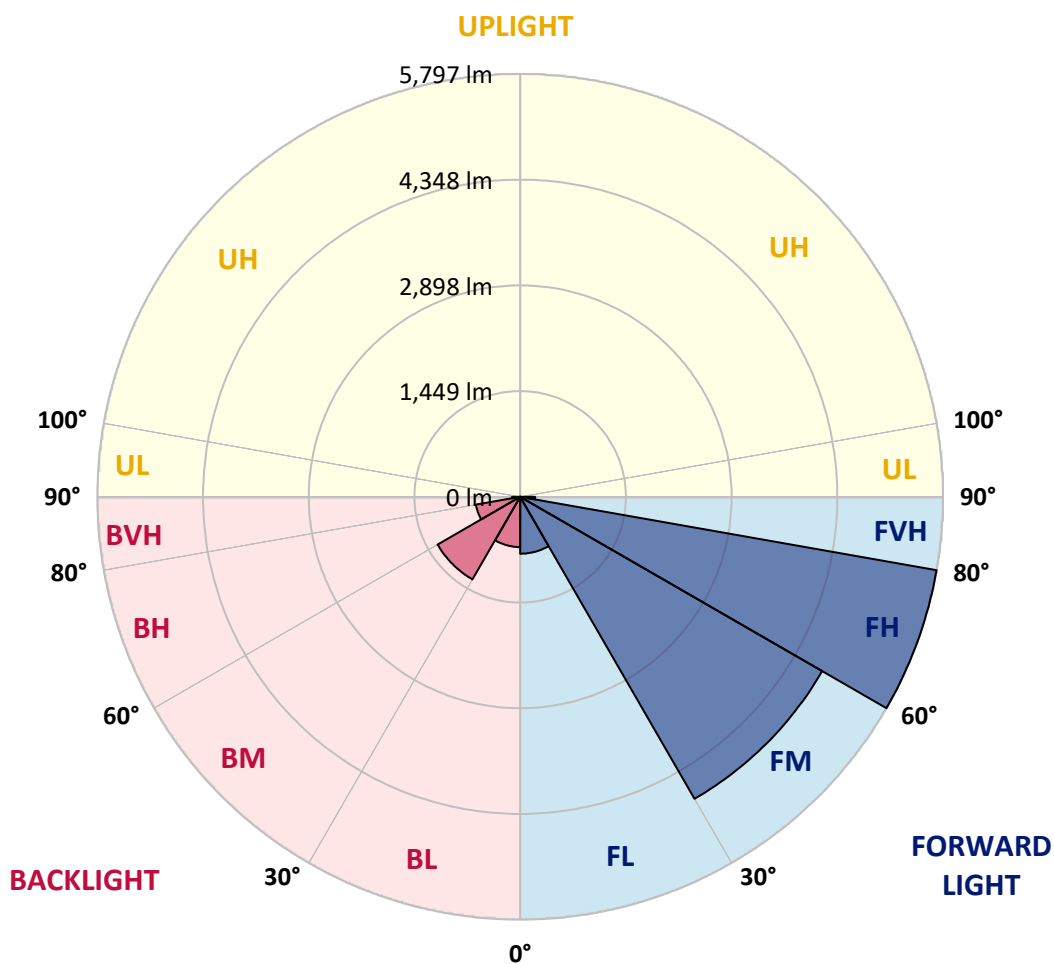
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	780.4	5.5			
FM	(30°-60°)	4779.7	33.5			
FH	(60°-80°)	5796.7	40.6			G3/7500
FVH	(80°-90°)	203.3	1.4			G2/225
BL	(0°-30°)	689.4	4.8	B2/1000		
BM	(30°-60°)	1307.4	9.2	B2/2500		
BH	(60°-80°)	616.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	111.2	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°	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0
2.5°	2070.9	2075.1	2070.3	2076.4	2086.8	2097.7	2105.2	2116.3	2128.6	2145.8	2149.7
5°	1973.5	1979.7	1979.7	1990.7	2010.6	2028.4	2044.9	2062.7	2088.7	2118.2	2129.9
7.5°	1866.4	1870.0	1876.1	1892.6	1921.5	1946.8	1970.1	1998.9	2034.5	2073.6	2094.3
10°	1737.5	1742.3	1752.0	1775.3	1814.4	1849.3	1883.0	1922.8	1968.0	2016.7	2042.8
12.5°	1646.3	1644.9	1649.0	1666.2	1700.5	1743.0	1791.8	1842.5	1898.1	1954.9	1986.6
15°	1615.4	1607.9	1592.1	1588.0	1606.5	1649.0	1705.3	1767.7	1834.3	1902.9	1942.0
17.5°	1634.6	1621.6	1578.4	1546.9	1544.1	1576.4	1636.0	1706.0	1782.8	1866.4	1915.2
20°	1755.4	1724.5	1618.2	1544.8	1519.4	1535.2	1587.3	1661.4	1752.0	1863.1	1925.4
22.5°	2044.1	1998.9	1773.2	1636.7	1550.9	1531.7	1570.8	1649.7	1755.4	1905.6	1985.1
25°	2464.7	2400.2	2039.4	1865.8	1688.8	1586.7	1595.5	1676.5	1804.1	2004.4	2100.4
27.5°	2796.7	2754.9	2387.2	2188.9	1939.9	1734.8	1675.8	1743.7	1903.6	2166.3	2264.4
30°	2994.2	2968.9	2758.9	2555.2	2260.2	1970.8	1829.4	1870.0	2059.2	2390.6	2471.6
32.5°	3223.3	3208.3	3105.3	2918.1	2606.0	2280.8	2072.9	2058.6	2267.7	2660.1	2697.2
35°	3460.7	3455.9	3395.6	3261.1	2977.1	2689.6	2396.0	2298.7	2494.8	2940.0	2916.6
37.5°	3681.6	3673.3	3638.4	3560.1	3365.3	3128.6	2725.4	2544.9	2739.7	3207.6	3103.9
40°	4088.4	4023.9	3903.9	3844.9	3757.8	3498.4	2986.7	2774.7	2993.6	3462.8	3265.9
42.5°	4584.3	4479.3	4255.7	4174.8	4162.4	3789.9	3165.0	2997.6	3249.4	3715.9	3425.1
45°	4974.6	4875.8	4683.1	4580.9	4626.1	4054.1	3344.1	3235.7	3512.8	3981.3	3588.9
47.5°	5391.0	5235.9	4980.8	5011.6	5110.4	4303.7	3526.6	3491.6	3801.5	4278.4	3792.7
50°	5406.0	5287.4	5175.6	5360.2	5513.8	4533.5	3754.9	3759.7	4154.9	4652.2	4063.7
52.5°	5092.6	5067.2	5244.9	5535.1	5756.7	4715.3	4015.0	4036.9	4606.9	5081.6	4361.3
55°	4982.9	4954.1	5159.1	5474.0	5789.5	4865.6	4296.8	4336.6	5153.6	5534.3	4651.5
57.5°	5250.4	5186.5	5200.3	5445.2	5709.3	5030.2	4604.1	4684.5	5747.7	5930.1	4838.1
60°	5998.2	5861.5	5602.3	5596.0	5752.5	5277.1	4959.5	5057.6	6365.0	6119.5	4765.4
62.5°	7046.9	6910.4	6424.8	6108.4	6085.2	5684.5	5395.8	5421.9	6721.7	5863.0	4321.5
65°	8182.2	8060.0	7517.5	7070.9	6855.5	6359.6	5902.7	5584.5	6605.2	5157.0	3545.0
67.5°	9560.3	9429.3	8962.7	8550.5	8343.4	7448.9	6258.7	5428.8	5865.0	3995.1	2548.4
70°	10524.1	10390.3	10206.5	10540.6	11047.4	9020.5	6304.7	4795.6	4380.5	2655.3	1533.8
72.5°	9266.8	9204.2	9539.7	10946.5	13058.0	9973.9	5699.0	3491.6	2544.2	1409.7	887.6
73°	8490.2	8476.5	9048.6	10661.9	13072.5	9827.1	5433.5	3245.3	2182.0	1247.0	811.5
75°	3833.8	3944.3	5198.2	8143.7	11357.5	8097.7	3824.3	1861.7	1232.7	861.6	612.6
77.5°	921.3	959.7	1626.5	3867.4	7172.5	4825.8	1732.8	920.5	788.2	608.5	447.2
80°	392.3	405.4	626.3	1428.9	3376.9	1943.2	798.4	616.7	545.3	424.6	313.5
82.5°	218.2	231.8	355.3	648.2	1363.0	662.6	487.1	429.4	358.8	255.8	203.8
85°	123.5	131.0	207.8	362.2	577.6	266.1	291.5	285.3	202.3	131.6	100.2
87.5°	58.4	63.2	100.2	168.0	226.3	104.3	148.1	163.3	126.8	80.3	52.1
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°	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0
2.5°	2154.6	2166.9	2181.4	2188.9	2195.8	2204.0	2212.3	2212.3	2213.6	2214.2
5°	2139.6	2164.9	2187.6	2197.1	2199.2	2199.2	2197.1	2186.2	2176.6	2180.7
7.5°	2107.9	2145.0	2164.2	2160.8	2134.7	2104.6	2079.2	2048.3	2032.5	2029.8
10°	2062.7	2105.2	2108.7	2074.4	2009.9	1945.4	1892.0	1839.7	1815.1	1808.9
12.5°	2012.7	2051.7	2029.8	1959.1	1855.5	1761.6	1693.6	1640.8	1617.5	1611.3
15°	1972.1	1998.9	1943.2	1832.2	1701.8	1602.4	1546.1	1507.0	1490.7	1485.8
17.5°	1951.0	1956.4	1854.9	1704.7	1566.0	1483.0	1448.1	1429.5	1423.3	1420.0
20°	1961.2	1922.8	1770.4	1585.9	1454.9	1396.7	1388.3	1383.5	1382.2	1380.2
22.5°	2012.7	1912.5	1693.0	1473.5	1357.5	1332.1	1339.0	1338.3	1336.9	1335.5
25°	2104.6	1921.5	1617.5	1366.4	1275.9	1270.3	1282.7	1282.7	1277.2	1277.2
27.5°	2225.9	1939.9	1533.1	1264.9	1201.9	1202.5	1212.1	1209.4	1203.2	1199.0
30°	2374.1	1951.6	1434.3	1173.7	1132.5	1129.7	1132.5	1120.9	1102.3	1101.0
32.5°	2525.7	1937.1	1319.8	1092.7	1059.2	1052.9	1050.8	1034.4	1013.2	1007.1
35°	2662.8	1884.4	1203.2	1028.2	989.2	975.4	985.1	979.5	960.4	955.6
37.5°	2763.0	1786.3	1098.3	971.4	939.1	935.7	941.9	943.9	921.3	916.4
40°	2830.3	1653.2	1008.4	923.4	929.5	916.4	895.8	881.5	874.6	872.6
42.5°	2884.5	1514.7	933.0	900.7	931.6	893.8	849.3	825.9	838.2	843.7
45°	2946.9	1379.5	869.8	872.6	921.3	867.7	816.9	794.4	799.1	800.6
47.5°	3032.6	1214.9	801.9	827.3	886.9	849.9	797.0	764.9	742.2	731.9
50°	3151.4	1020.1	731.3	776.5	853.4	836.9	766.2	731.9	690.1	680.4
52.5°	3233.6	838.2	672.9	734.0	823.2	810.8	741.6	697.0	653.1	644.8
55°	3189.1	696.2	622.1	686.7	783.4	778.6	721.0	661.2	626.9	620.1
57.5°	2966.1	606.4	583.1	642.0	734.7	751.1	693.5	631.1	606.4	601.6
60°	2540.9	550.1	558.5	611.9	694.9	723.8	666.1	614.6	598.2	594.7
62.5°	1971.5	512.4	539.8	589.9	664.0	704.5	650.9	612.6	606.4	602.2
65°	1412.4	482.3	520.0	567.9	635.9	686.7	645.5	609.7	611.2	607.8
67.5°	959.7	455.5	495.9	543.2	608.5	670.9	638.0	600.3	617.4	613.3
70°	671.5	429.4	467.8	511.8	574.1	648.9	624.2	585.8	584.4	567.9
72.5°	524.1	395.1	429.4	467.8	530.2	618.1	596.8	553.6	530.9	513.7
73°	500.1	386.9	419.8	458.3	520.6	610.5	589.2	544.6	519.3	503.4
75°	413.6	351.2	381.5	415.7	479.5	574.8	552.2	504.2	471.9	462.3
77.5°	325.1	300.5	329.3	360.1	422.5	522.7	497.3	451.4	433.5	425.3
80°	240.8	249.0	274.3	301.8	366.3	467.2	444.4	398.6	478.1	458.3
82.5°	169.5	188.7	212.0	236.6	307.3	413.0	385.4	338.1	349.8	290.8
85°	100.2	123.5	145.5	166.7	221.6	342.3	318.3	269.6	220.9	210.6
87.5°	58.4	68.7	74.8	96.7	152.3	258.0	224.3	199.6	114.5	77.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)