

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: P193230

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193230
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12043.6 lumens
Efficiency: N/A
Efficacy: 106.6 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): 113
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



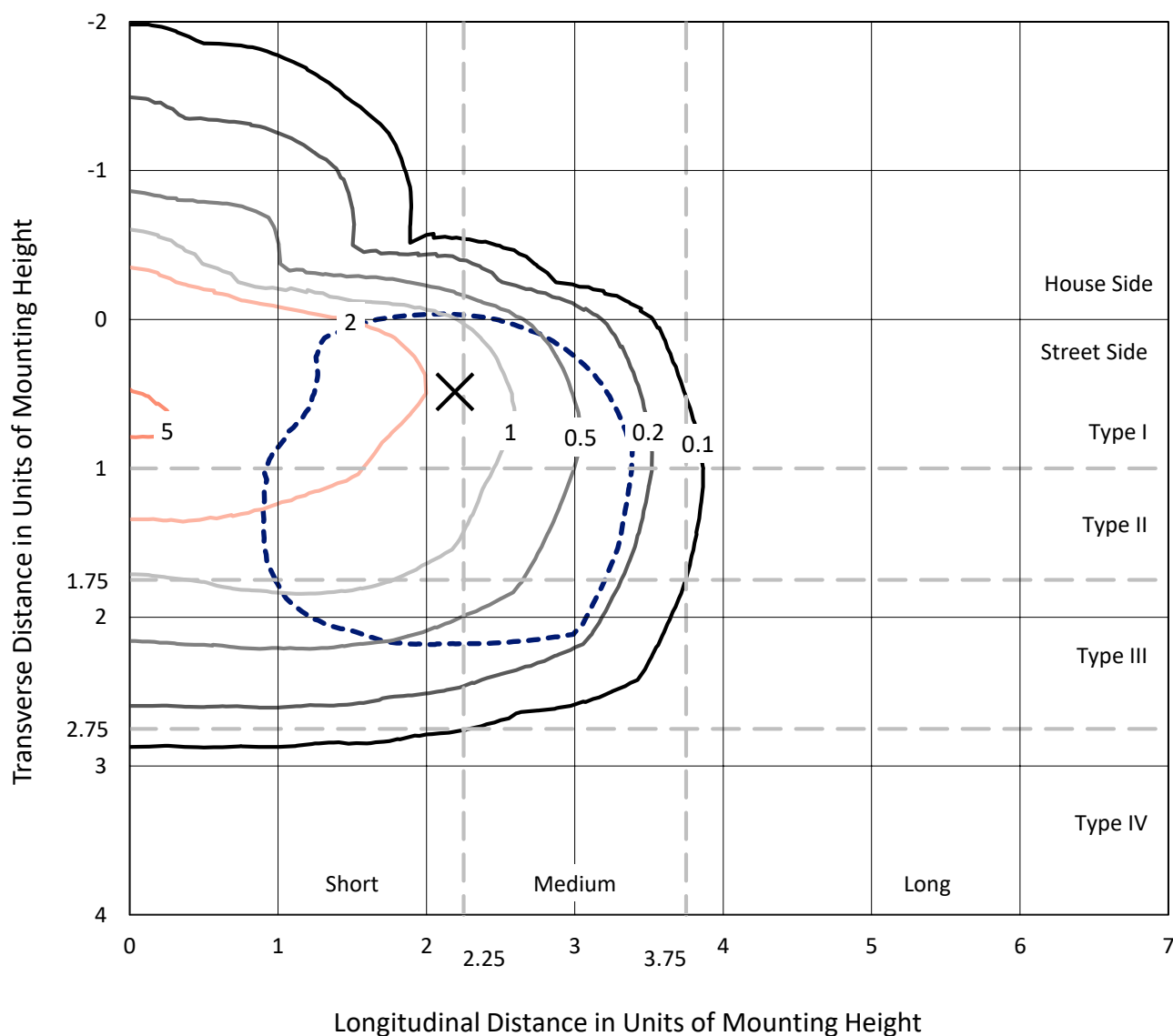
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

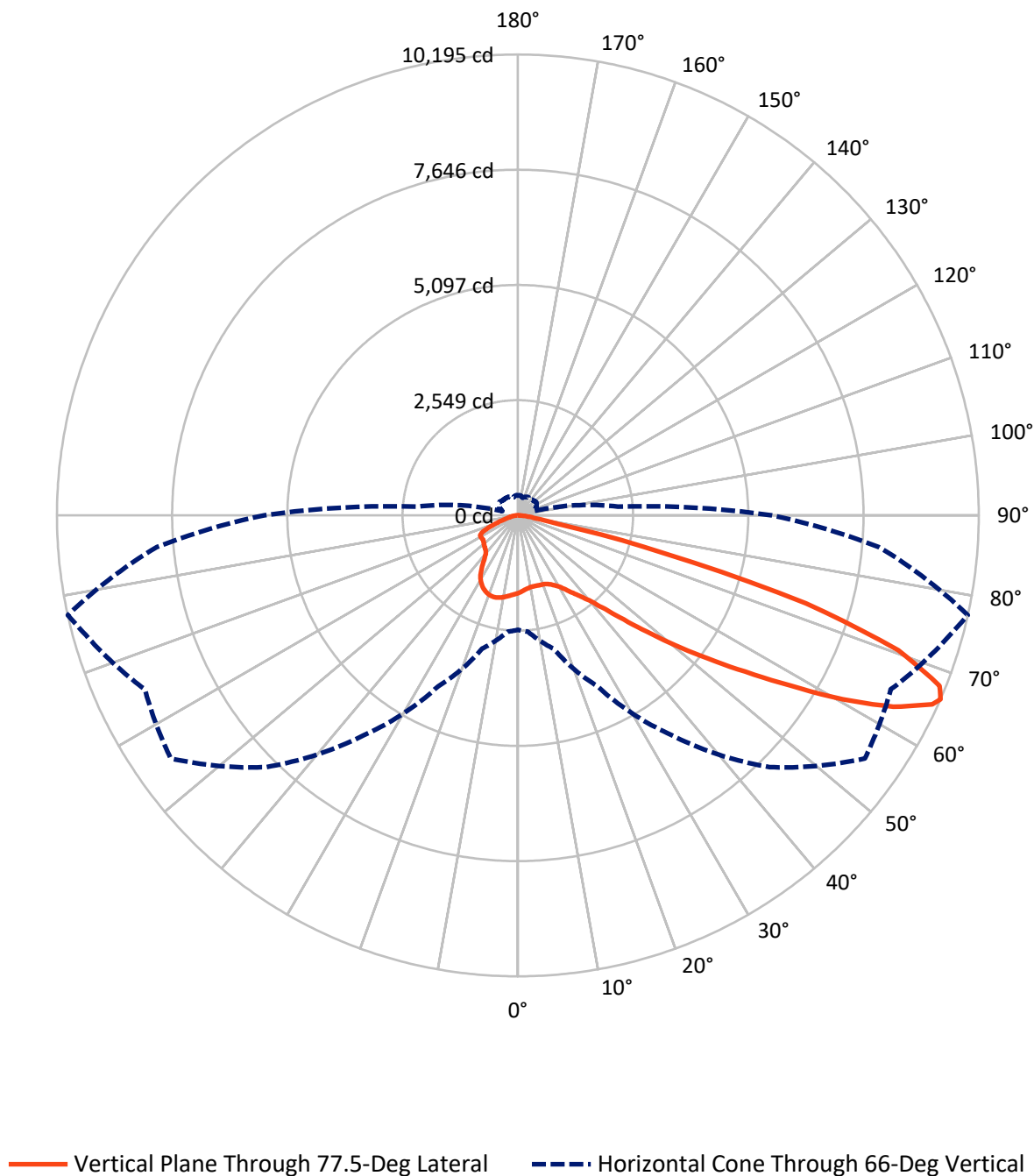


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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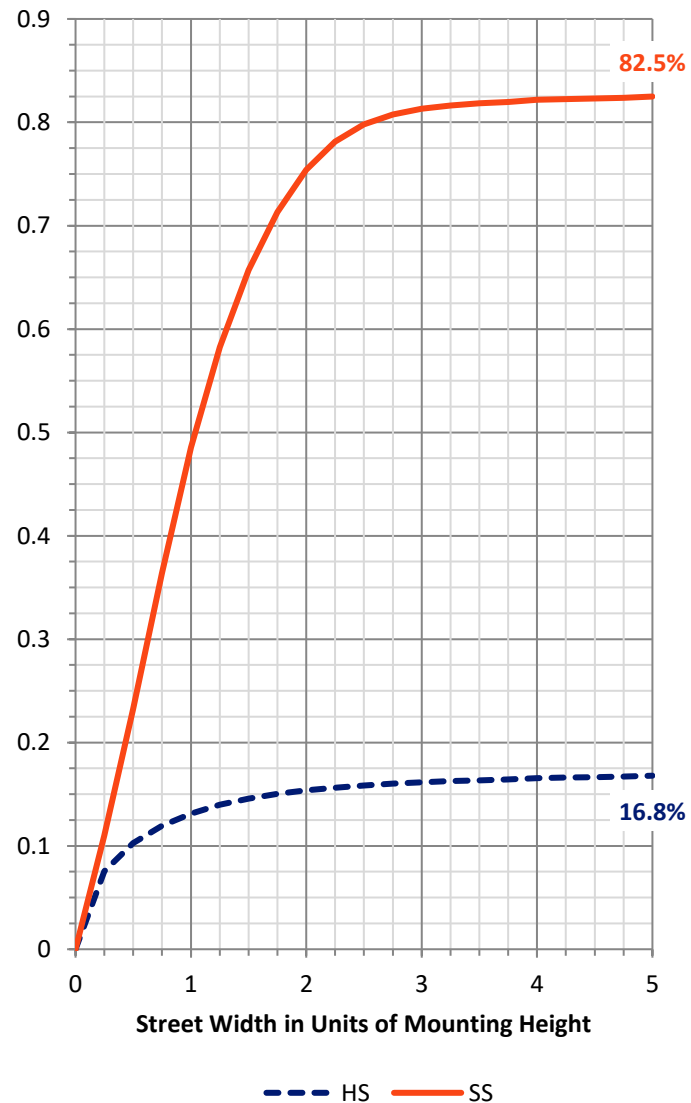
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2057.6	0.0	2057.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	9986.1	0.0	9986.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	12043.6	0.0	12043.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	1.3
10°-20°	432.6	3.6
20°-30°	738.3	6.1
30°-40°	1181.8	9.8
40°-50°	1825.8	15.2
50°-60°	2589.7	21.5
60°-70°	3464.3	28.8
70°-80°	1504.5	12.5
80°-90°	153.4	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°	12043.6	100.0
0°-180°	12043.6	100.0

Coefficient of Utilization



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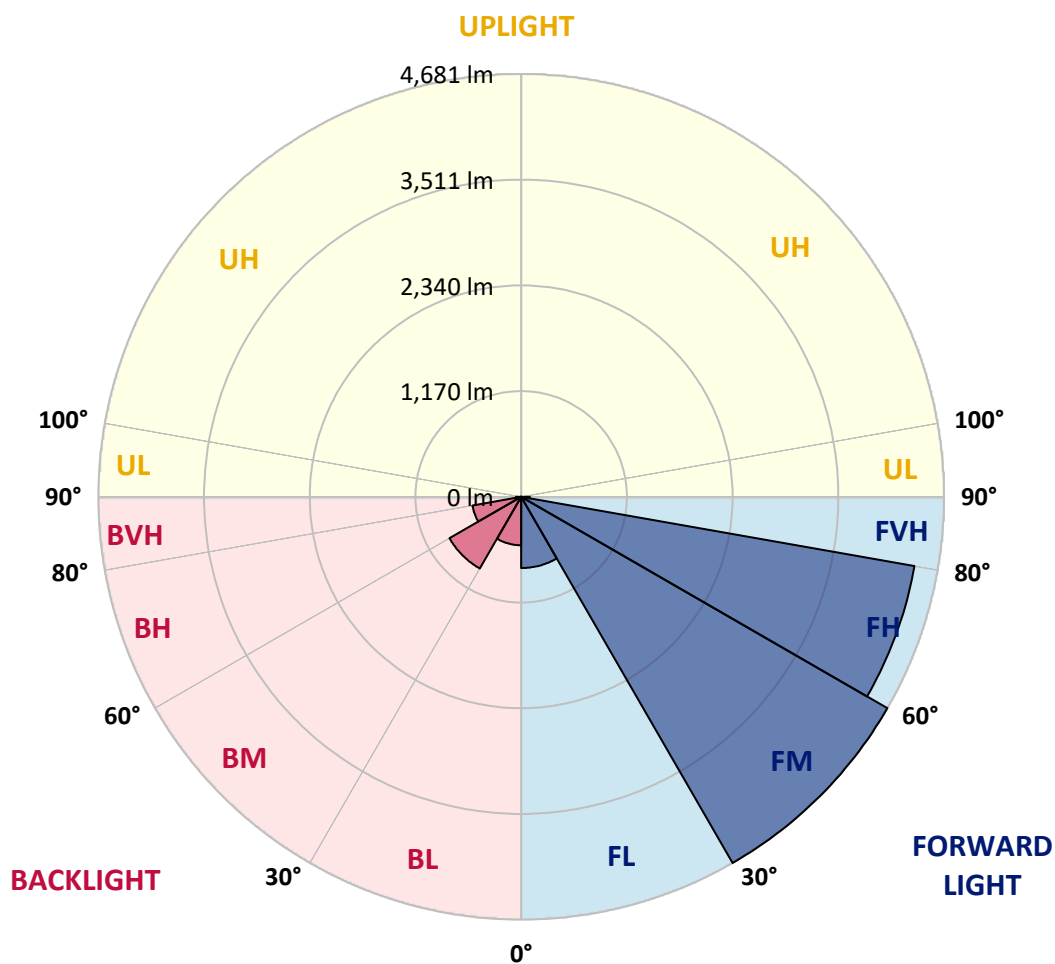
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	788.3	6.5			
FM	(30°-60°)	4680.8	38.9			
FH	(60°-80°)	4420.7	36.7			G2/5000
FVH	(80°-90°)	96.2	0.8			G1/100
BL	(0°-30°)	535.9	4.4	B2/1000		
BM	(30°-60°)	916.5	7.6	B1/1000		
BH	(60°-80°)	548.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	57.2	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°	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3
2.5°	1518.2	1528.5	1537.1	1545.0	1560.9	1587.1	1617.2	1641.7	1677.0	1683.8	1702.6
5°	1378.9	1378.9	1385.6	1397.7	1419.3	1458.5	1499.5	1554.1	1630.9	1649.2	1699.2
7.5°	1311.1	1311.6	1315.7	1325.9	1344.7	1380.5	1425.5	1489.8	1594.0	1624.1	1709.5
10°	1336.1	1330.4	1321.9	1316.8	1319.7	1340.7	1383.3	1455.2	1571.1	1609.8	1732.2
12.5°	1476.1	1465.2	1435.7	1396.5	1358.8	1343.6	1368.6	1438.6	1561.6	1606.4	1762.4
15°	1704.9	1700.3	1645.1	1563.7	1472.7	1396.5	1379.4	1432.3	1562.6	1610.5	1798.2
17.5°	1991.7	1985.5	1912.6	1794.2	1645.7	1497.2	1417.5	1437.5	1566.7	1617.2	1833.0
20°	2281.4	2262.0	2183.4	2042.4	1851.7	1634.3	1480.7	1450.5	1571.7	1624.6	1869.3
22.5°	2497.5	2481.6	2411.2	2273.9	2054.3	1793.1	1565.4	1473.3	1588.2	1646.3	1914.3
25°	2687.7	2688.8	2618.8	2486.2	2259.2	1961.5	1674.7	1534.2	1630.3	1690.7	1975.7
27.5°	2922.6	2909.0	2843.6	2712.2	2461.7	2131.6	1806.7	1617.8	1693.0	1753.8	2056.6
30°	3203.8	3194.0	3118.5	2969.3	2686.4	2314.3	1957.6	1715.2	1773.8	1836.8	2162.5
32.5°	3534.4	3529.8	3451.3	3259.5	2945.9	2529.5	2134.5	1843.7	1894.4	1959.8	2314.3
35°	3922.5	3923.1	3830.3	3599.9	3229.9	2779.9	2335.4	2009.4	2041.2	2109.5	2495.3
37.5°	4161.4	4190.5	4155.7	3920.8	3551.5	3059.8	2596.0	2229.0	2208.4	2277.4	2689.4
40°	4212.7	4248.0	4357.8	4238.3	3911.2	3368.3	2827.1	2440.1	2414.5	2498.8	2939.2
42.5°	4141.0	4190.0	4422.2	4506.4	4293.1	3748.3	3137.8	2753.7	2721.2	2834.5	3249.9
45°	4098.4	4134.8	4403.3	4645.8	4624.2	4178.0	3533.2	3147.4	3135.5	3284.0	3608.4
47.5°	4024.3	4057.4	4315.7	4678.3	4818.8	4571.9	4008.4	3628.8	3652.2	3846.8	4013.0
50°	4064.2	4077.9	4217.9	4595.7	4875.1	4860.3	4539.4	4186.6	4266.2	4509.2	4471.1
52.5°	4058.6	4093.8	4206.5	4460.3	4882.5	5038.4	5062.3	4808.5	4976.4	5255.3	4979.3
55°	3281.2	3346.1	4072.7	4426.1	4908.7	5213.1	5527.9	5464.0	5777.1	6102.0	5552.9
57.5°	3133.2	3174.2	3577.1	4497.8	5047.6	5546.6	6045.7	6185.6	6709.2	7086.4	6251.7
60°	3104.2	3154.9	3572.0	4585.5	5329.2	6090.0	6813.3	7059.1	7843.2	8256.5	7062.0
62.5°	3013.7	3068.3	3538.4	4574.0	5729.2	6841.9	7796.0	7987.8	8918.9	9320.6	7739.7
65°	2726.9	2778.1	3264.6	4390.2	5999.0	7644.1	8959.3	8839.2	9767.9	10070.0	8077.7
66°	2530.6	2580.7	3049.0	4174.0	5936.4	7871.8	9371.2	9102.6	9957.9	10194.7	8011.8
67.5°	2171.5	2210.8	2630.2	3689.8	5603.5	7935.5	9717.8	9300.7	9977.9	10061.4	7634.5
70°	1372.0	1383.3	1709.5	2547.1	4241.8	6882.1	9190.3	8809.0	9155.0	8928.5	6400.2
72.5°	595.3	591.2	820.5	1295.7	2401.4	4618.0	7434.2	7268.6	7181.5	6664.9	4480.1
75°	331.2	335.8	426.2	601.5	975.9	2268.2	4863.1	4653.8	3929.3	3352.8	2031.5
77.5°	265.7	272.0	353.4	426.7	438.1	791.0	2275.7	1851.7	1114.8	894.5	564.6
80°	210.0	221.4	308.4	332.3	295.3	326.0	735.2	587.9	441.0	404.6	292.5
82.5°	166.2	174.2	264.6	251.6	206.6	219.6	352.3	343.2	286.8	261.2	169.1
85°	119.5	134.3	217.4	189.4	135.5	147.9	234.0	224.2	164.4	134.3	74.6
87.5°	48.9	63.7	153.6	125.7	75.7	68.9	116.7	109.8	78.0	57.0	37.0
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°	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3
2.5°	1714.6	1728.3	1745.9	1756.7	1762.4	1766.4	1772.6	1772.0	1773.8	1774.4	1776.5
5°	1726.0	1748.7	1774.4	1781.2	1781.2	1774.9	1768.6	1758.4	1754.3	1753.3	1754.3
7.5°	1755.6	1780.6	1802.8	1794.8	1777.7	1752.7	1720.3	1691.8	1676.5	1671.3	1670.1
10°	1793.1	1823.2	1832.4	1802.2	1752.1	1691.8	1627.5	1580.9	1554.1	1546.7	1544.4
12.5°	1838.7	1867.1	1854.5	1790.9	1698.1	1600.7	1512.0	1437.5	1381.7	1364.0	1362.9
15°	1888.6	1911.0	1867.1	1755.6	1617.2	1473.9	1315.7	1187.1	1117.6	1095.5	1093.6
17.5°	1935.4	1946.8	1859.7	1694.1	1498.4	1266.2	1056.2	957.1	933.3	939.0	940.0
20°	1975.2	1975.2	1834.7	1605.9	1311.1	992.4	859.9	858.1	875.1	892.3	895.7
22.5°	2019.0	1992.9	1790.9	1481.2	1045.9	812.1	792.6	808.6	827.9	846.8	849.6
25°	2073.0	2007.1	1729.9	1292.3	822.2	737.5	744.9	757.9	767.6	779.6	781.3
27.5°	2133.4	2025.2	1649.7	1032.3	713.6	690.8	696.5	701.1	700.0	704.5	705.6
30°	2205.6	2046.3	1539.9	806.9	668.6	650.9	640.8	636.8	636.8	644.2	647.1
32.5°	2302.4	2077.7	1382.2	691.4	647.1	622.6	589.6	574.7	580.3	605.6	611.2
35°	2408.8	2111.2	1168.8	652.2	642.5	609.4	558.2	530.9	531.5	554.8	562.2
37.5°	2524.9	2153.8	934.9	644.7	652.8	610.0	541.7	504.2	488.8	488.8	491.6
40°	2673.5	2197.8	756.8	649.9	674.3	616.9	533.1	483.2	439.9	441.0	443.3
42.5°	2867.0	2235.2	661.2	660.7	700.5	625.9	532.6	455.3	417.7	443.3	466.6
45°	3081.9	2254.0	619.2	670.3	721.5	631.6	523.6	450.7	420.5	496.8	541.2
47.5°	3329.5	2243.2	595.8	673.8	726.7	631.6	513.3	461.5	440.5	575.4	627.1
50°	3600.9	2212.0	573.1	666.9	724.9	630.5	523.0	472.3	447.9	589.0	624.9
52.5°	3920.2	2185.7	549.1	652.2	713.0	624.3	534.4	467.7	424.5	535.5	560.5
55°	4284.4	2193.2	522.4	631.1	694.3	612.3	530.4	449.6	400.0	471.8	487.1
57.5°	4749.9	2281.4	490.6	604.3	668.6	592.4	516.1	441.0	392.7	428.0	437.0
60°	5269.5	2435.0	450.7	577.6	636.8	560.5	505.4	445.0	396.1	424.5	429.1
62.5°	5650.8	2524.3	416.5	538.3	593.5	525.2	491.6	450.1	405.2	436.5	435.3
65°	5754.3	2377.5	373.8	480.8	535.0	488.3	474.6	455.8	409.1	446.1	441.0
66°	5609.2	2219.3	355.1	454.1	505.4	470.1	466.1	455.3	407.4	447.3	438.7
67.5°	5256.9	1895.0	322.7	414.8	458.2	442.7	452.5	450.1	402.8	446.1	434.2
70°	4287.3	1292.9	276.0	345.4	381.4	389.8	426.2	431.9	388.1	426.2	400.0
72.5°	2995.6	787.5	244.0	268.0	308.4	332.3	390.4	406.9	368.2	372.1	347.1
75°	1447.6	418.3	221.4	207.7	239.6	277.7	347.1	372.7	336.8	311.3	302.2
77.5°	451.2	255.5	187.8	167.2	187.8	224.2	290.2	326.6	299.9	260.6	257.2
80°	242.4	187.8	144.5	134.3	148.5	175.8	228.3	272.6	257.8	234.0	208.8
82.5°	159.9	121.9	107.0	104.2	113.2	134.3	169.6	225.9	225.9	200.3	145.7
85°	82.5	74.6	73.4	73.4	79.1	89.4	115.5	174.2	185.5	105.9	87.6
87.5°	41.0	42.7	39.9	41.5	44.4	43.8	55.1	87.6	104.7	64.4	53.5
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)