

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: P193275

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193275
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-07-LED-E1-T4FT-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA 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: 40965.7 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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



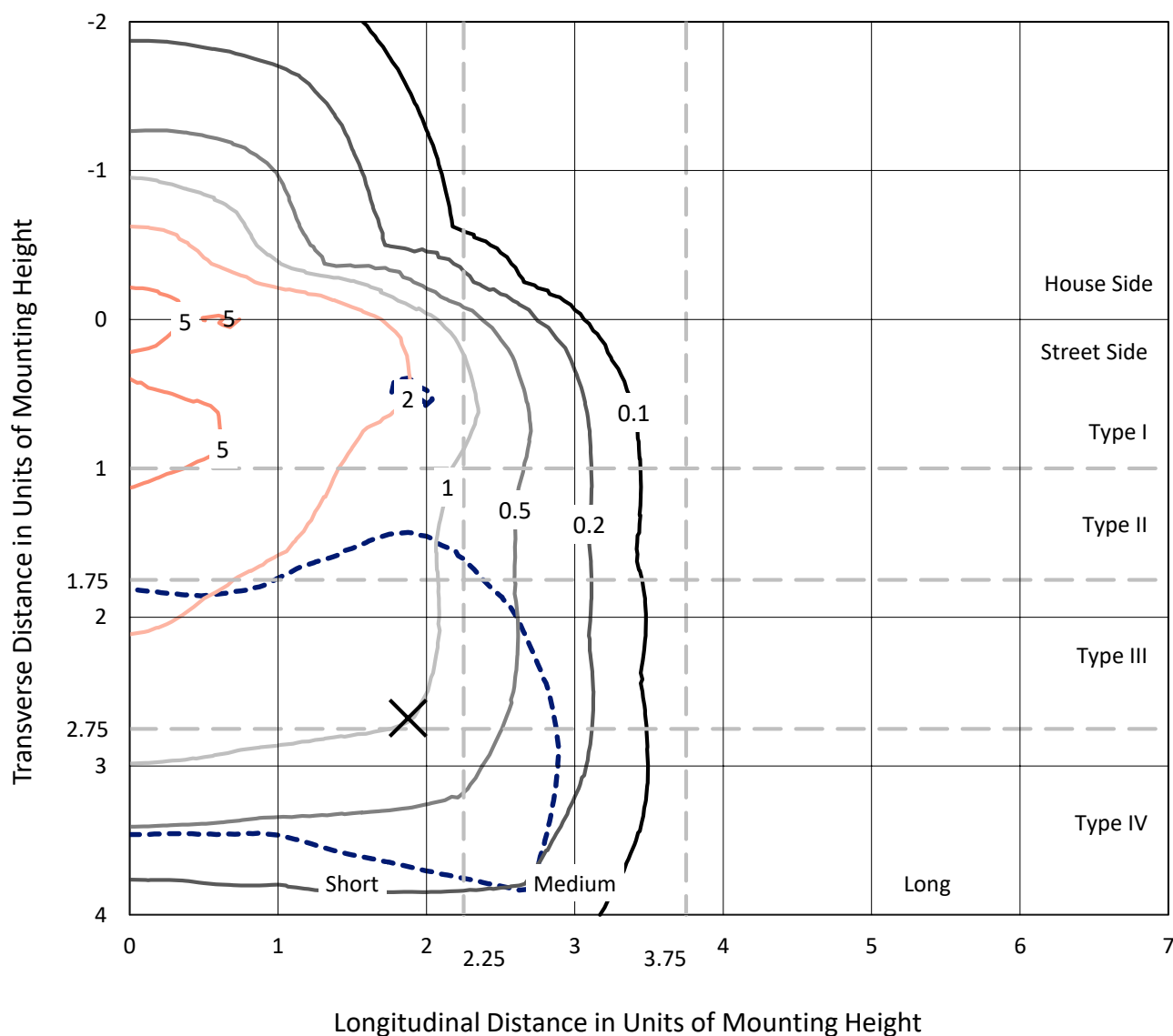
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

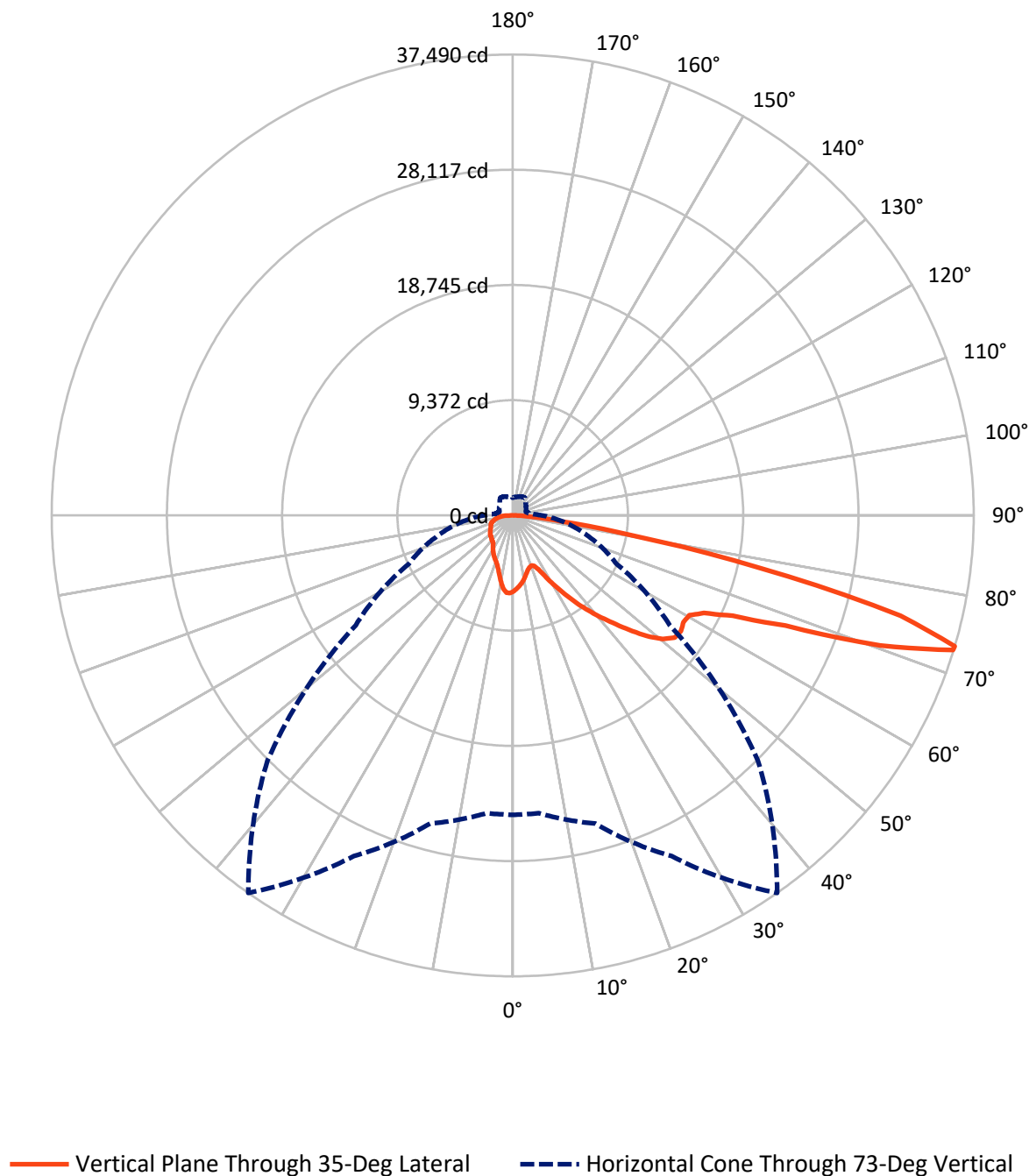


Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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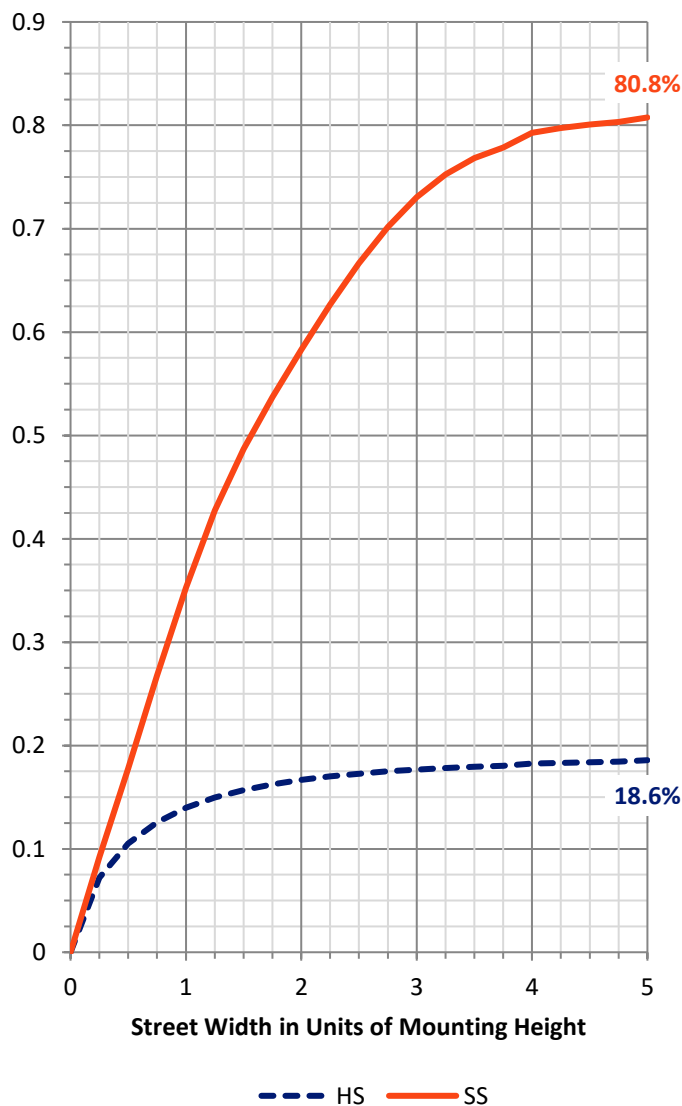
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7813.3	0.0	7813.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	33152.4	0.0	33152.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	40965.7	0.0	40965.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.7	1.4
10°-20°	1397.0	3.4
20°-30°	2258.5	5.5
30°-40°	3787.2	9.2
40°-50°	5837.7	14.3
50°-60°	7832.0	19.1
60°-70°	10433.8	25.5
70°-80°	7957.8	19.4
80°-90°	902.0	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°	40965.7	100.0
0°-180°	40965.7	100.0

Coefficient of Utilization



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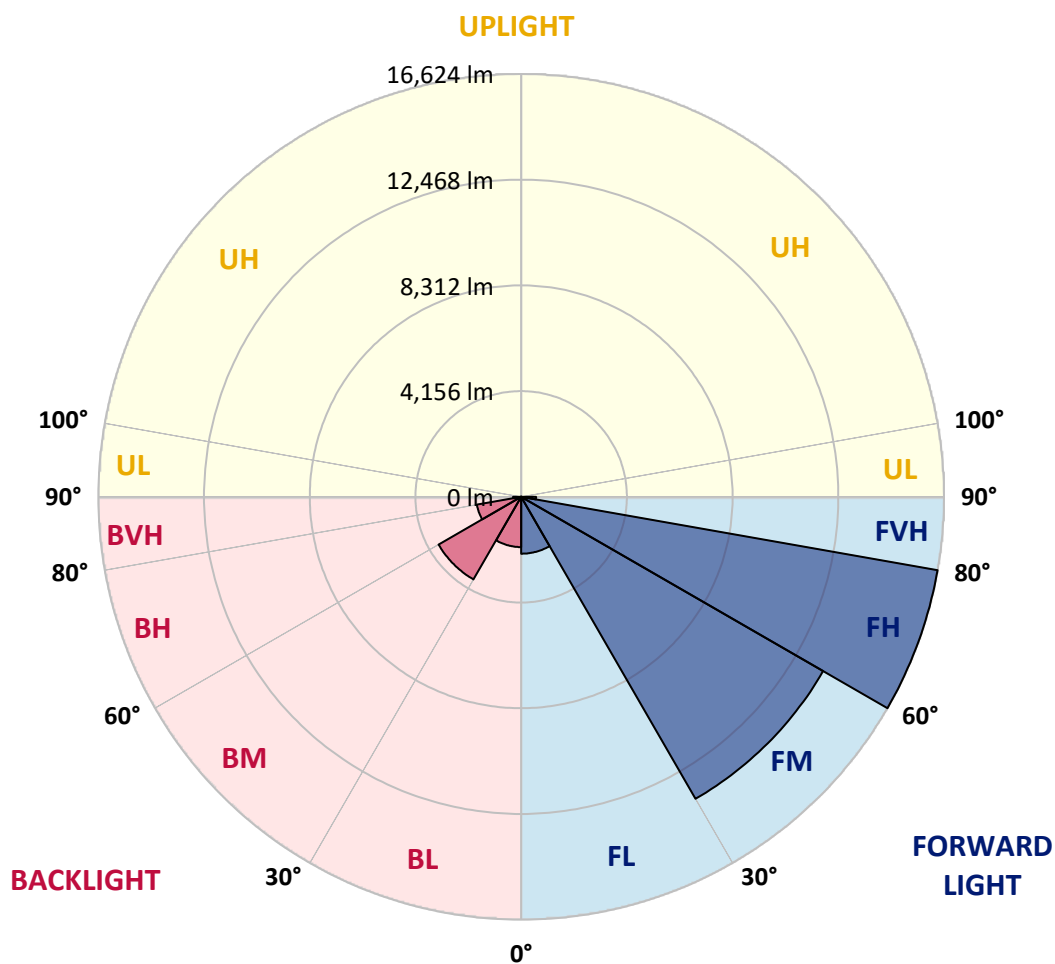
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2238.1	5.5			
FM	(30°-60°)	13707.4	33.5			
FH	(60°-80°)	16623.9	40.6			G5
FVH	(80°-90°)	583.0	1.4			G4/750
BL	(0°-30°)	1977.1	4.8	B3/2500		
BM	(30°-60°)	3749.5	9.2	B3/5000		
BH	(60°-80°)	1767.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	318.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6183.0	6183.0	6183.0	6183.0	6183.0	6183.0	6183.0	6183.0	6183.0	6183.0	6183.0
2.5°	5939.0	5950.8	5937.0	5954.7	5984.3	6015.9	6037.4	6069.0	6104.4	6153.5	6165.3
5°	5659.7	5677.4	5677.4	5708.9	5765.9	5817.1	5864.3	5915.4	5990.2	6074.9	6108.2
7.5°	5352.8	5362.7	5380.4	5427.6	5510.2	5583.0	5649.9	5732.5	5834.8	5946.9	6006.0
10°	4983.0	4996.8	5024.3	5091.2	5203.4	5303.7	5400.0	5514.1	5644.0	5783.6	5858.4
12.5°	4721.3	4717.4	4729.2	4778.4	4876.8	4998.7	5138.4	5284.0	5443.3	5606.6	5697.1
15°	4632.8	4611.2	4566.0	4554.2	4607.3	4729.2	4890.6	5069.5	5260.4	5457.1	5569.2
17.5°	4687.9	4650.5	4526.6	4436.2	4428.3	4520.7	4691.8	4892.5	5112.8	5352.8	5492.5
20°	5034.1	4945.6	4640.7	4430.3	4357.4	4402.6	4552.2	4764.6	5024.3	5343.0	5522.0
22.5°	5862.3	5732.5	5085.3	4693.8	4448.0	4392.8	4505.0	4731.2	5034.1	5464.9	5693.2
25°	7068.2	6883.4	5848.5	5350.9	4843.4	4550.2	4575.8	4808.0	5173.8	5748.2	6023.7
27.5°	8020.4	7900.4	6845.9	6277.4	5563.3	4975.1	4806.0	5000.7	5459.0	6212.5	6493.9
30°	8586.9	8514.1	7912.2	7327.9	6482.1	5651.9	5246.6	5362.7	5905.6	6855.8	7087.8
32.5°	9244.0	9200.7	8905.6	8368.6	7473.5	6541.1	5944.9	5903.6	6503.6	7628.9	7735.1
35°	9924.7	9910.9	9737.7	9352.1	8537.7	7713.4	6871.6	6592.1	7154.9	8431.5	8364.7
37.5°	10558.0	10534.4	10434.1	10209.9	9651.2	8972.5	7815.8	7298.4	7857.1	9198.7	8901.7
40°	11724.7	11539.8	11195.5	11026.3	10776.5	10032.8	8565.3	7957.5	8584.9	9930.6	9365.9
42.5°	13146.9	12845.9	12204.7	11972.5	11937.1	10868.9	9076.8	8596.7	9318.7	10656.5	9822.4
45°	14266.3	13983.0	13430.2	13137.2	13267.1	11626.3	9590.2	9279.4	10074.1	11417.8	10292.6
47.5°	15460.4	15015.8	14284.0	14372.5	14655.8	12342.4	10113.5	10013.2	10902.3	12269.6	10876.8
50°	15503.7	15163.3	14842.8	15371.9	15812.5	13001.5	10768.6	10782.4	11915.5	13341.7	11653.8
52.5°	14604.6	14531.9	15041.4	15873.5	16509.0	13522.7	11514.2	11577.1	13211.8	14573.2	12507.7
55°	14289.9	14207.3	14795.6	15698.5	16603.4	13953.5	12322.7	12436.8	14779.7	15871.5	13339.8
57.5°	15057.1	14874.2	14913.6	15615.9	16373.3	14425.7	13204.0	13434.2	16483.4	17006.6	13874.9
60°	17201.4	16810.0	16066.3	16048.6	16497.2	15133.8	14223.1	14504.3	18254.0	17549.7	13666.3
62.5°	20209.3	19817.9	18425.1	17518.2	17451.2	16302.3	15474.2	15548.9	19276.8	16813.9	12393.5
65°	23465.1	23114.9	21558.8	20278.2	19660.4	18238.1	16928.0	16015.2	18942.4	14789.6	10166.6
67.5°	27417.2	27041.4	25703.8	24521.5	23927.3	21362.2	17949.0	15568.7	16819.8	11457.2	7308.3
70°	30181.2	29797.6	29270.3	30228.4	31682.1	25869.0	18080.8	13752.9	12562.7	7615.2	4398.7
72.5°	26575.2	26396.3	27358.2	31393.0	37448.1	28603.4	16343.8	10013.2	7296.5	4042.7	2545.6
73°	24348.3	24309.0	25949.7	30576.6	37489.5	28182.5	15582.4	9306.9	6257.8	3576.4	2327.2
75°	10994.9	11311.5	14907.7	23354.9	32571.4	23223.0	10967.3	5339.1	3535.1	2470.8	1756.8
77.5°	2642.0	2752.1	4664.3	11091.2	20569.3	13839.5	4969.2	2640.0	2260.3	1745.0	1282.6
80°	1125.3	1162.6	1796.1	4097.8	9684.6	5573.2	2289.8	1768.6	1563.9	1217.7	898.9
82.5°	625.6	665.0	1019.1	1859.0	3908.9	1900.3	1396.8	1231.5	1028.9	733.7	584.3
85°	354.1	375.8	596.1	1038.7	1656.4	763.2	836.1	818.4	580.3	377.7	287.3
87.5°	167.1	181.0	287.3	482.0	649.2	299.1	424.9	468.1	364.0	230.2	149.4
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°	6183.0	6183.0	6183.0	6183.0	6183.0	6183.0	6183.0	6183.0	6183.0	6183.0
2.5°	6179.0	6214.4	6255.7	6277.4	6297.0	6320.6	6344.3	6344.3	6348.3	6350.2
5°	6135.8	6208.5	6273.4	6301.0	6306.9	6306.9	6301.0	6269.6	6242.0	6253.8
7.5°	6045.4	6151.6	6206.6	6196.7	6122.1	6035.5	5962.8	5874.1	5828.9	5821.0
10°	5915.4	6037.4	6047.3	5948.8	5764.0	5579.1	5425.6	5276.1	5205.3	5187.6
12.5°	5771.8	5883.9	5821.0	5618.4	5321.4	5051.8	4857.1	4705.6	4638.7	4621.0
15°	5655.8	5732.5	5573.2	5254.5	4880.7	4595.5	4434.2	4322.0	4274.8	4261.0
17.5°	5594.8	5610.6	5319.4	4888.6	4491.2	4253.1	4152.8	4099.7	4082.0	4072.2
20°	5624.3	5514.1	5077.4	4548.3	4172.5	4005.2	3981.6	3967.9	3963.9	3958.0
22.5°	5771.8	5484.6	4855.2	4225.6	3893.1	3820.4	3840.0	3838.1	3834.1	3830.2
25°	6035.5	5510.2	4638.7	3918.7	3659.1	3643.2	3678.8	3678.8	3663.0	3663.0
27.5°	6383.7	5563.3	4396.7	3627.5	3446.6	3448.6	3476.1	3468.2	3450.5	3438.7
30°	6808.6	5596.8	4113.5	3366.0	3247.8	3240.0	3247.8	3214.4	3161.3	3157.4
32.5°	7243.4	5555.4	3785.0	3133.8	3037.4	3019.7	3013.8	2966.6	2905.6	2887.9
35°	7636.7	5404.0	3450.5	2948.9	2836.7	2797.4	2824.9	2809.2	2754.1	2740.3
37.5°	7924.0	5122.6	3149.5	2785.6	2693.1	2683.3	2701.0	2706.9	2642.0	2628.2
40°	8116.8	4741.0	2891.9	2647.9	2665.6	2628.2	2569.2	2527.9	2508.3	2502.4
42.5°	8272.2	4343.6	2675.4	2583.0	2671.5	2563.3	2435.4	2368.5	2403.9	2419.6
45°	8451.2	3956.1	2494.4	2502.4	2642.0	2488.5	2342.9	2278.0	2291.8	2295.7
47.5°	8697.1	3484.0	2299.7	2372.4	2543.7	2437.3	2285.9	2193.5	2128.6	2099.0
50°	9037.5	2925.3	2097.0	2226.9	2447.2	2400.0	2197.4	2099.0	1979.0	1951.5
52.5°	9273.5	2403.9	1929.8	2104.9	2360.6	2325.2	2126.6	1998.7	1872.8	1849.2
55°	9145.6	1996.7	1784.3	1969.2	2246.6	2232.8	2067.5	1896.4	1798.1	1778.4
57.5°	8506.3	1739.1	1672.1	1841.3	2106.8	2154.1	1988.8	1809.9	1739.1	1725.2
60°	7286.6	1577.7	1601.3	1754.8	1992.8	2075.4	1910.2	1762.7	1715.4	1705.5
62.5°	5653.8	1469.5	1548.2	1691.8	1904.3	2020.3	1866.9	1756.8	1739.1	1727.2
65°	4050.6	1383.0	1491.2	1628.8	1823.6	1969.2	1851.2	1748.9	1752.8	1743.0
67.5°	2752.1	1306.2	1422.3	1558.0	1745.0	1923.9	1829.5	1721.3	1770.5	1758.7
70°	1925.9	1231.5	1341.6	1467.6	1646.5	1861.0	1790.2	1680.0	1676.0	1628.8
72.5°	1503.0	1133.1	1231.5	1341.6	1520.7	1772.5	1711.4	1587.5	1522.6	1473.5
73°	1434.1	1109.5	1203.9	1314.1	1493.1	1750.9	1689.8	1562.0	1489.2	1444.0
75°	1186.2	1007.3	1093.8	1192.1	1375.1	1648.5	1583.6	1445.9	1353.5	1325.9
77.5°	932.4	861.6	944.2	1032.8	1211.8	1499.0	1426.3	1294.4	1243.3	1219.7
80°	690.5	714.1	786.8	865.6	1050.5	1339.6	1274.7	1143.0	1371.2	1314.1
82.5°	485.8	541.0	607.9	678.7	881.2	1184.3	1105.6	969.9	1003.3	834.0
85°	287.3	354.1	417.1	478.0	635.5	981.7	912.8	773.1	633.4	603.9
87.5°	167.1	196.7	214.4	277.4	436.7	739.6	643.3	572.4	328.6	222.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)