

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: P193253

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193253
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-05-LED-E1-T4FT-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 19071.2 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 162
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

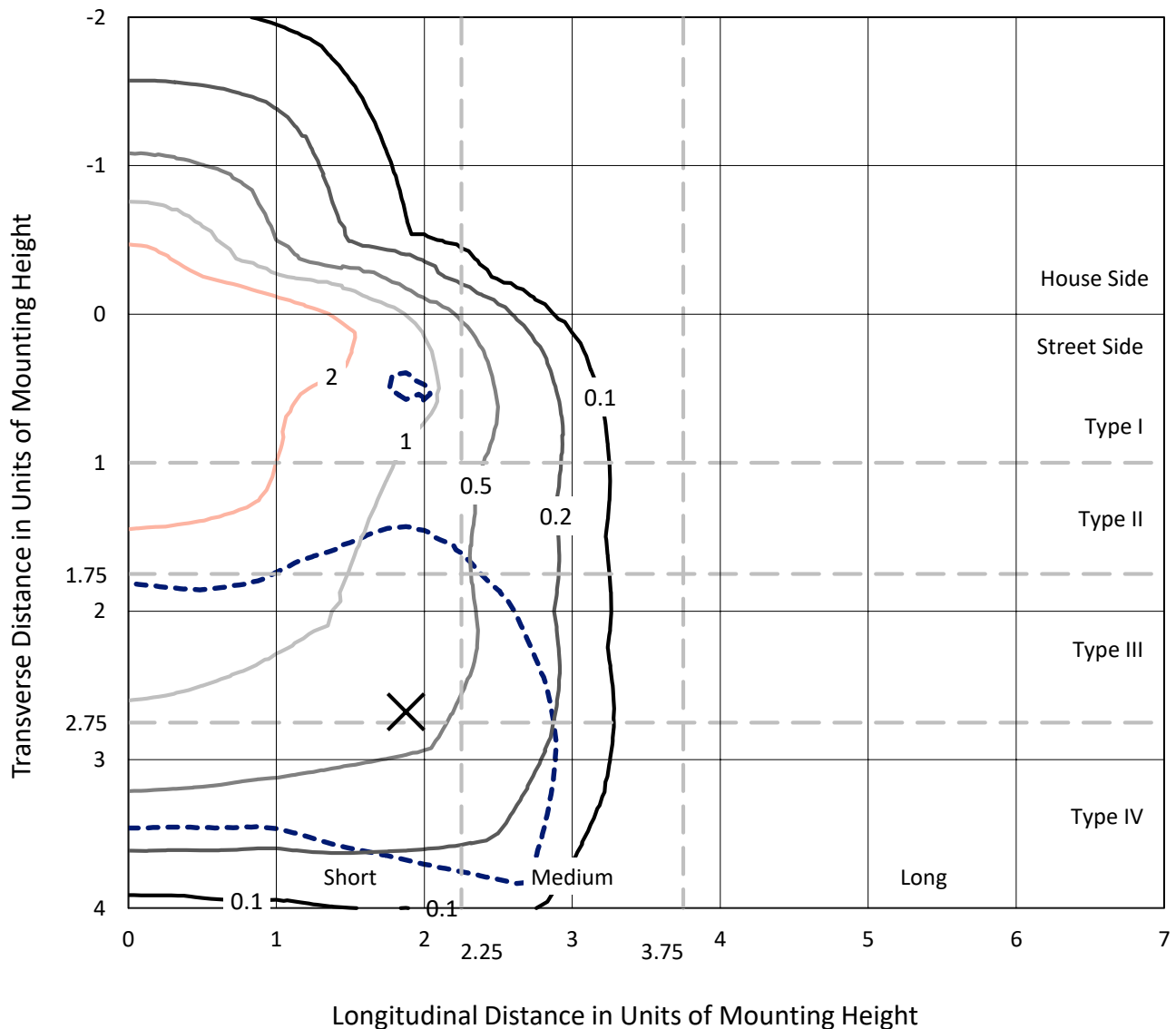


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

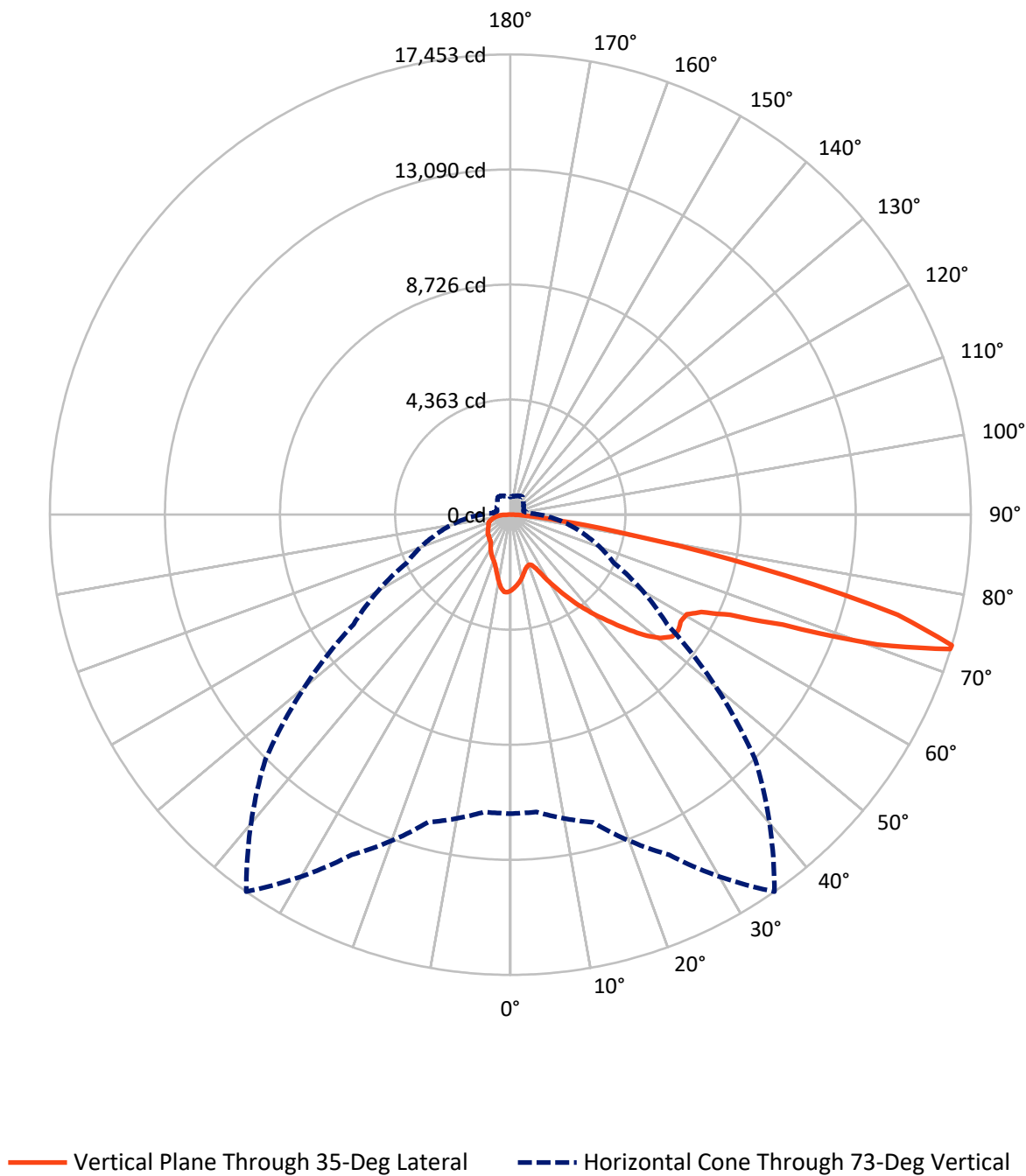


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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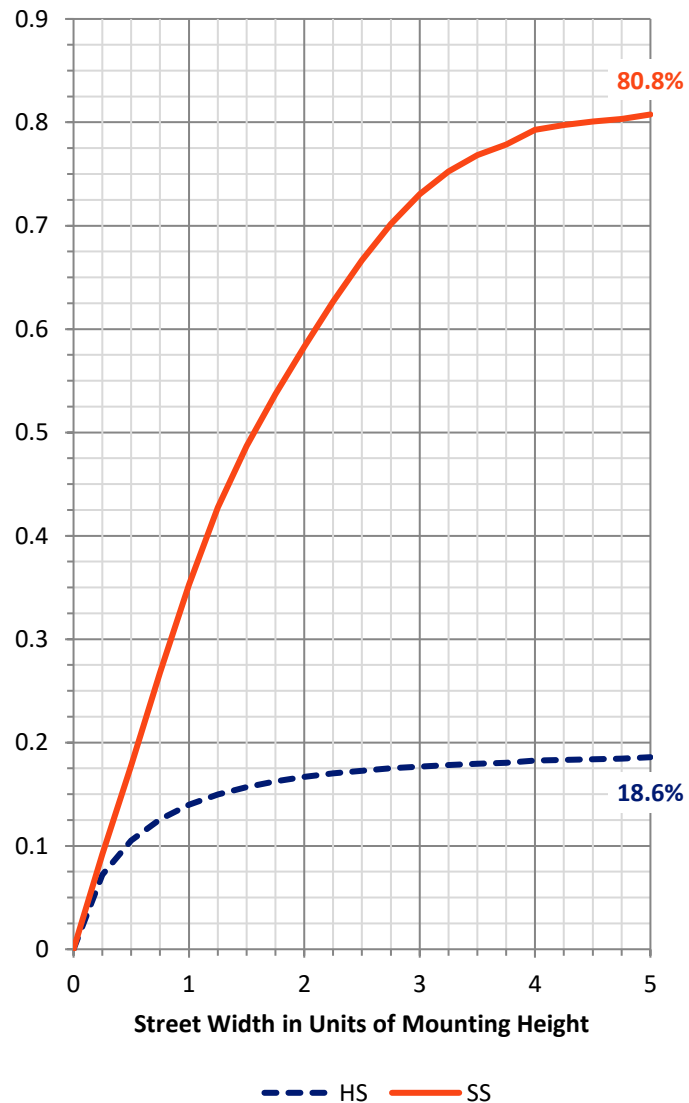
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3637.4	0.0	3637.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	15433.8	0.0	15433.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	19071.2	0.0	19071.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	1.4
10°-20°	650.4	3.4
20°-30°	1051.4	5.5
30°-40°	1763.1	9.2
40°-50°	2717.7	14.3
50°-60°	3646.1	19.1
60°-70°	4857.3	25.5
70°-80°	3704.7	19.4
80°-90°	419.9	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°	19071.2	100.0
0°-180°	19071.2	100.0

Coefficient of Utilization



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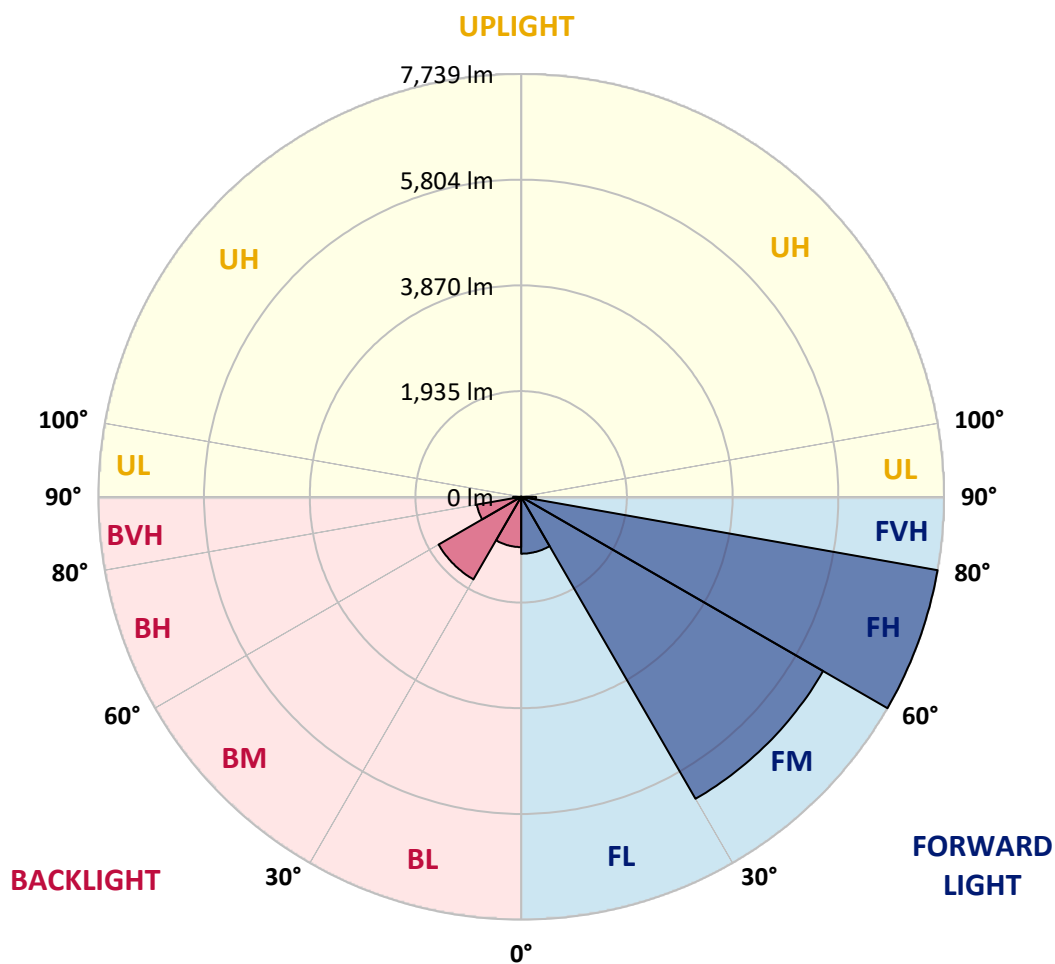
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1041.9	5.5			
FM	(30°-60°)	6381.4	33.5			
FH	(60°-80°)	7739.1	40.6			G4/12000
FVH	(80°-90°)	271.4	1.4			G3/500
BL	(0°-30°)	920.4	4.8	B2/1000		
BM	(30°-60°)	1745.5	9.2	B2/2500		
BH	(60°-80°)	822.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	148.5	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4
2.5°	2765.0	2770.4	2763.9	2772.2	2785.9	2800.7	2810.7	2825.3	2841.9	2864.7	2870.2
5°	2634.8	2643.1	2643.1	2657.7	2684.3	2708.1	2730.1	2753.9	2788.8	2828.0	2843.6
7.5°	2491.9	2496.6	2504.8	2526.7	2565.2	2599.1	2630.2	2668.7	2716.3	2768.5	2796.1
10°	2319.8	2326.2	2339.0	2370.2	2422.4	2469.0	2513.9	2567.0	2627.4	2692.4	2727.3
12.5°	2198.0	2196.1	2201.7	2224.5	2270.3	2327.1	2392.1	2459.9	2534.0	2610.1	2652.3
15°	2156.8	2146.7	2125.6	2120.1	2144.9	2201.7	2276.8	2360.1	2448.9	2540.5	2592.7
17.5°	2182.5	2165.0	2107.3	2065.2	2061.5	2104.6	2184.2	2277.6	2380.2	2491.9	2557.0
20°	2343.6	2302.4	2160.4	2062.5	2028.5	2049.6	2119.2	2218.2	2339.0	2487.4	2570.8
22.5°	2729.2	2668.7	2367.4	2185.1	2070.7	2045.0	2097.2	2202.5	2343.6	2544.2	2650.4
25°	3290.6	3204.5	2722.7	2491.0	2254.8	2118.3	2130.2	2238.2	2408.6	2676.1	2804.2
27.5°	3733.8	3678.0	3187.1	2922.3	2590.0	2316.1	2237.4	2328.0	2541.4	2892.2	3023.1
30°	3997.6	3963.7	3683.4	3411.4	3017.6	2631.2	2442.5	2496.6	2749.3	3191.7	3299.7
32.5°	4303.5	4283.3	4146.0	3895.9	3479.3	3045.2	2767.6	2748.4	3027.7	3551.6	3601.0
35°	4620.3	4613.9	4533.3	4353.9	3974.7	3591.0	3199.0	3068.9	3330.9	3925.2	3894.1
37.5°	4915.2	4904.2	4857.5	4753.1	4493.1	4177.1	3638.6	3397.8	3657.8	4282.4	4144.1
40°	5458.3	5372.3	5212.0	5133.2	5016.8	4670.8	3987.5	3704.6	3996.7	4623.1	4360.2
42.5°	6120.4	5980.3	5681.8	5573.8	5557.3	5059.9	4225.6	4002.1	4338.2	4961.0	4572.7
45°	6641.6	6509.6	6252.4	6115.9	6176.3	5412.4	4464.7	4319.9	4690.0	5315.5	4791.6
47.5°	7197.5	6990.5	6649.8	6691.0	6822.9	5745.8	4708.3	4661.5	5075.5	5712.0	5063.6
50°	7217.6	7059.1	6909.9	7156.3	7361.5	6052.6	5013.3	5019.6	5547.2	6211.2	5425.4
52.5°	6799.1	6765.3	7002.4	7389.7	7685.7	6295.4	5360.4	5389.6	6150.6	6784.5	5822.9
55°	6652.6	6614.1	6887.9	7308.3	7729.5	6495.9	5736.7	5789.8	6880.6	7388.8	6210.2
57.5°	7009.7	6924.6	6942.9	7269.8	7622.4	6715.7	6147.0	6254.2	7673.8	7917.3	6459.3
60°	8007.9	7825.7	7479.6	7471.2	7680.1	7045.5	6621.4	6752.3	8497.9	8170.1	6362.2
62.5°	9408.4	9226.1	8577.6	8155.4	8124.3	7589.4	7203.9	7238.7	8974.1	7827.6	5769.7
65°	10924.0	10761.0	10036.5	9440.3	9152.7	8490.6	7880.7	7455.8	8818.5	6885.2	4733.0
67.5°	12763.8	12589.0	11966.2	11415.7	11139.2	9944.9	8356.0	7247.8	7830.3	5333.7	3402.4
70°	14050.6	13872.0	13626.6	14072.6	14749.4	12043.1	8417.4	6402.5	5848.4	3545.1	2047.7
72.5°	12371.9	12288.5	12736.4	14614.7	17433.6	13316.1	7608.7	4661.5	3396.8	1882.0	1185.0
73°	11335.2	11316.8	12080.7	14234.7	17452.8	13120.1	7254.3	4332.7	2913.3	1665.0	1083.5
75°	5118.6	5266.0	6940.1	10872.7	15163.3	10811.3	5105.6	2485.5	1645.8	1150.3	817.8
77.5°	1229.9	1281.3	2171.4	5163.4	9575.8	6442.8	2313.3	1229.0	1052.2	812.4	597.1
80°	523.9	541.3	836.2	1907.6	4508.6	2594.6	1066.1	823.4	728.1	566.9	418.6
82.5°	291.2	309.5	474.4	865.5	1819.7	884.7	650.2	573.3	479.0	341.7	271.9
85°	164.9	175.0	277.5	483.6	771.2	355.3	389.2	381.0	270.2	175.8	133.8
87.5°	77.8	84.2	133.8	224.4	302.2	139.2	197.9	218.0	169.5	107.2	69.6
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°	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4	2878.4
2.5°	2876.6	2893.0	2912.3	2922.3	2931.5	2942.6	2953.5	2953.5	2955.4	2956.2
5°	2856.5	2890.4	2920.6	2933.4	2936.2	2936.2	2933.4	2918.8	2905.9	2911.4
7.5°	2814.3	2863.8	2889.5	2884.9	2850.0	2809.7	2775.8	2734.6	2713.6	2709.9
10°	2753.9	2810.7	2815.3	2769.5	2683.4	2597.3	2525.8	2456.2	2423.3	2415.0
12.5°	2687.0	2739.2	2709.9	2615.5	2477.4	2351.8	2261.1	2190.6	2159.5	2151.4
15°	2633.0	2668.7	2594.6	2446.2	2272.1	2139.4	2064.2	2012.1	1990.0	1983.7
17.5°	2604.6	2612.0	2476.4	2275.9	2090.7	1980.0	1933.4	1908.5	1900.3	1895.7
20°	2618.3	2567.0	2363.8	2117.3	1942.4	1864.6	1853.6	1847.2	1845.4	1842.6
22.5°	2687.0	2553.3	2260.2	1967.2	1812.4	1778.5	1787.7	1786.8	1785.0	1783.1
25°	2809.7	2565.2	2159.5	1824.3	1703.5	1696.1	1712.6	1712.6	1705.3	1705.3
27.5°	2971.9	2590.0	2046.9	1688.8	1604.5	1605.4	1618.2	1614.7	1606.3	1600.8
30°	3169.7	2605.5	1915.0	1567.0	1512.0	1508.4	1512.0	1496.5	1471.7	1469.9
32.5°	3372.1	2586.2	1762.1	1458.9	1414.1	1405.8	1403.0	1381.0	1352.6	1344.4
35°	3555.2	2515.8	1606.3	1372.9	1320.6	1302.3	1315.2	1307.9	1282.1	1275.7
37.5°	3688.9	2384.8	1466.3	1296.8	1253.8	1249.2	1257.5	1260.2	1229.9	1223.6
40°	3778.7	2207.1	1346.3	1232.7	1240.9	1223.6	1196.1	1176.8	1167.7	1164.9
42.5°	3851.1	2022.2	1245.5	1202.5	1243.7	1193.3	1133.8	1102.7	1119.2	1126.5
45°	3934.4	1841.7	1161.3	1164.9	1229.9	1158.4	1090.7	1060.6	1066.9	1068.8
47.5°	4048.8	1622.0	1070.6	1104.5	1184.2	1134.6	1064.1	1021.1	990.9	977.3
50°	4207.2	1361.8	976.2	1036.8	1139.2	1117.2	1023.0	977.3	921.3	908.5
52.5°	4317.2	1119.2	898.4	979.9	1099.0	1082.5	990.0	930.5	871.9	860.9
55°	4257.7	929.6	830.7	916.8	1045.8	1039.5	962.6	882.9	837.0	827.8
57.5°	3960.0	809.6	778.5	857.2	980.8	1002.8	925.9	842.6	809.6	803.2
60°	3392.2	734.4	745.4	816.9	927.7	966.2	889.3	820.5	798.5	794.0
62.5°	2632.0	684.1	720.8	787.6	886.5	940.5	869.1	817.8	809.6	804.1
65°	1885.7	643.9	694.3	758.3	849.0	916.8	861.8	814.2	815.9	811.5
67.5°	1281.3	608.1	662.1	725.4	812.4	895.7	851.6	801.3	824.3	818.8
70°	896.6	573.3	624.6	683.2	766.6	866.3	833.4	782.1	780.3	758.3
72.5°	699.7	527.5	573.3	624.6	707.9	825.1	796.7	739.0	708.9	685.9
73°	667.7	516.6	560.5	611.8	695.1	815.1	786.6	727.1	693.2	672.2
75°	552.2	468.9	509.1	555.0	640.1	767.4	737.3	673.1	630.1	617.4
77.5°	434.1	401.1	439.6	480.8	564.1	697.8	664.0	602.6	578.8	567.8
80°	321.4	332.4	366.3	402.9	489.1	623.7	593.5	532.1	638.3	611.8
82.5°	226.1	251.9	283.0	316.0	410.3	551.3	514.7	451.5	467.1	388.3
85°	133.8	164.9	194.2	222.6	295.8	457.0	424.9	359.9	294.9	281.2
87.5°	77.8	91.6	99.9	129.2	203.3	344.3	299.5	266.5	153.0	103.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)