

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: P194853

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194853
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-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 19719 lumens
Efficiency: N/A
Efficacy: 121.7 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



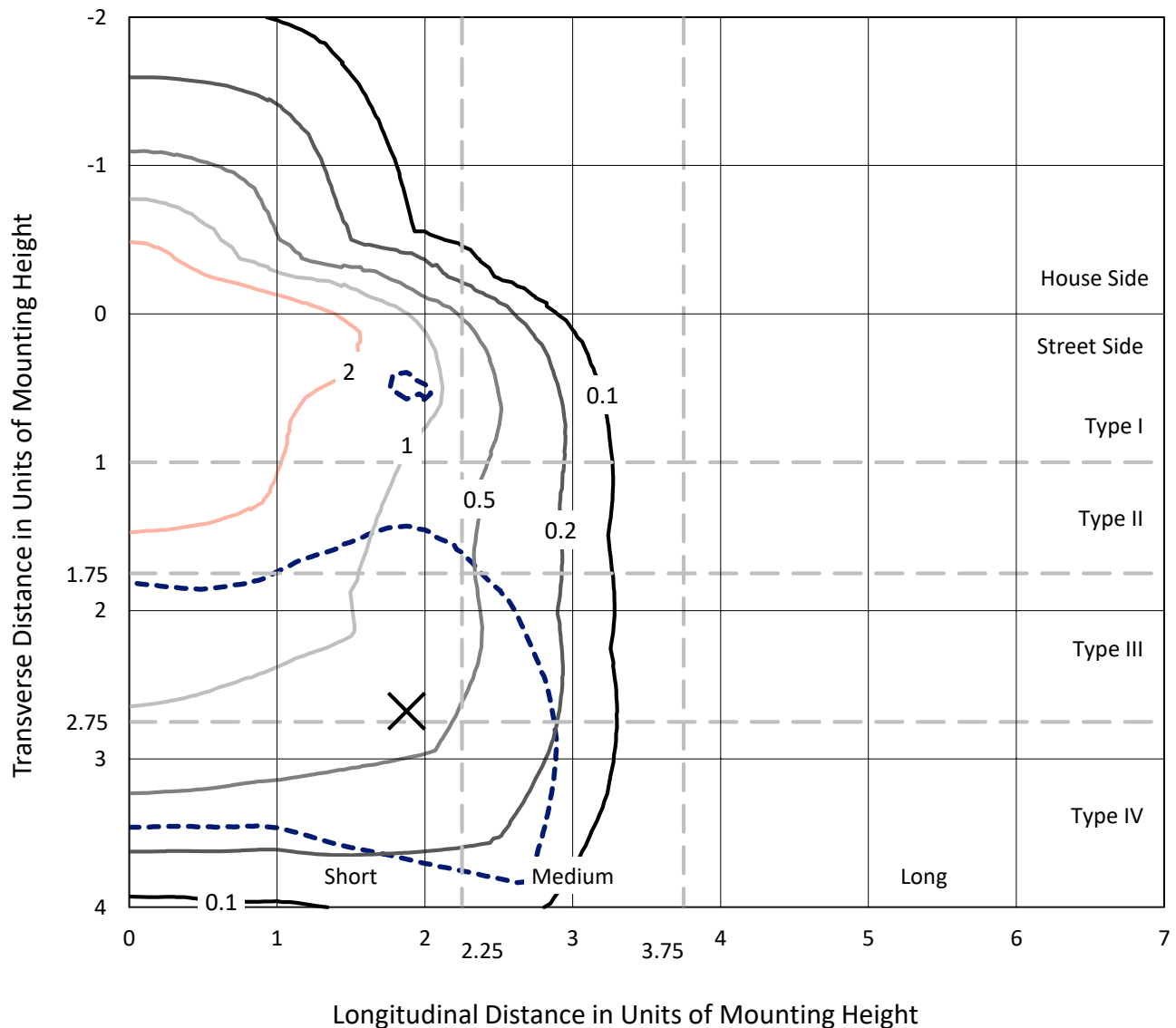
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



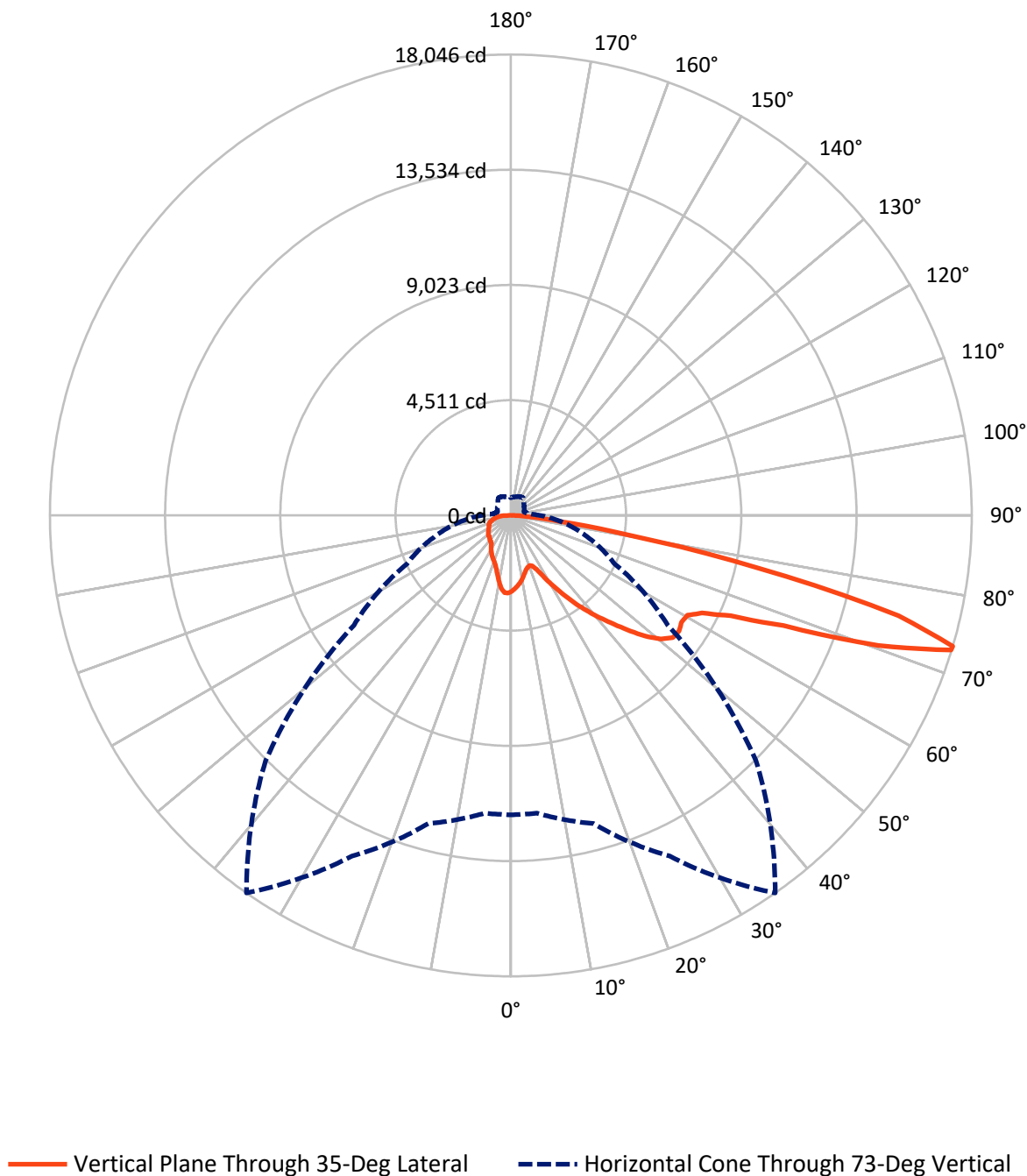
Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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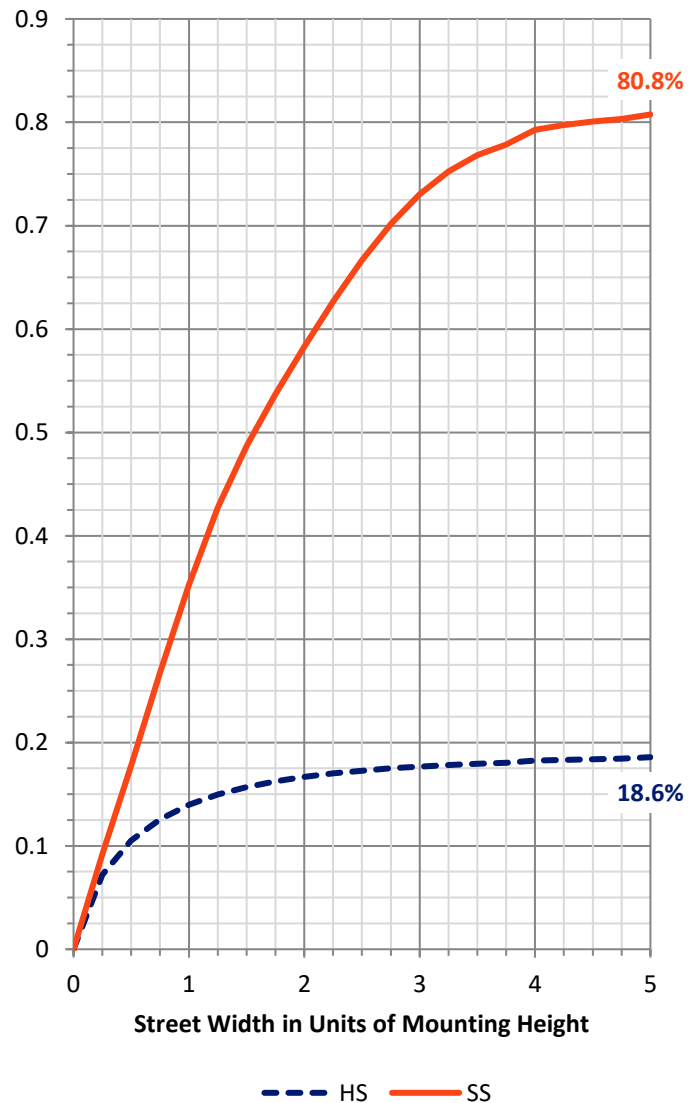
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3761.0	0.0	3761.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	15958.0	0.0	15958.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	19719.0	0.0	19719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.4	1.4
10°-20°	672.5	3.4
20°-30°	1087.1	5.5
30°-40°	1823.0	9.2
40°-50°	2810.0	14.3
50°-60°	3770.0	19.1
60°-70°	5022.3	25.5
70°-80°	3830.5	19.4
80°-90°	434.2	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°	19719.0	100.0
0°-180°	19719.0	100.0

Coefficient of Utilization



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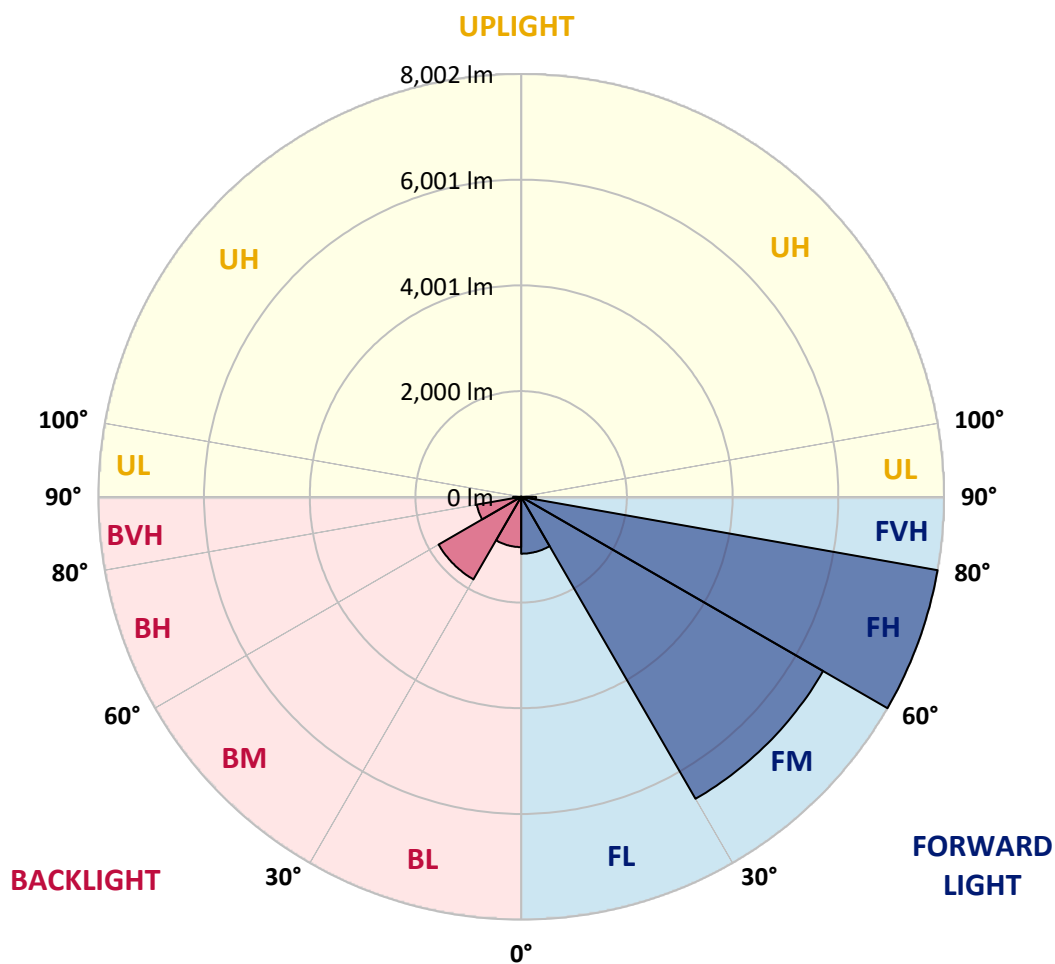
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1077.3	5.5			
FM	(30°-60°)	6598.1	33.5			
FH	(60°-80°)	8002.0	40.6			G4/12000
FVH	(80°-90°)	280.6	1.4			G3/500
BL	(0°-30°)	951.7	4.8	B2/1000		
BM	(30°-60°)	1804.8	9.2	B2/2500		
BH	(60°-80°)	850.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	153.5	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°	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2
2.5°	2858.8	2864.5	2857.8	2866.4	2880.6	2895.7	2906.1	2921.3	2938.3	2962.0	2967.7
5°	2724.3	2732.8	2732.8	2748.0	2775.5	2800.1	2822.8	2847.4	2883.4	2924.1	2940.2
7.5°	2576.6	2581.3	2589.9	2612.6	2652.4	2687.4	2719.6	2759.4	2808.6	2862.6	2891.0
10°	2398.6	2405.2	2418.5	2450.7	2504.6	2552.9	2599.3	2654.3	2716.8	2784.0	2820.0
12.5°	2272.6	2270.7	2276.4	2300.1	2347.4	2406.2	2473.4	2543.5	2620.2	2698.8	2742.3
15°	2230.0	2219.6	2197.8	2192.1	2217.7	2276.4	2354.1	2440.2	2532.1	2626.8	2680.8
17.5°	2256.5	2238.5	2178.9	2135.3	2131.5	2176.1	2258.4	2355.0	2461.1	2576.6	2643.8
20°	2423.2	2380.6	2233.8	2132.5	2097.5	2119.2	2191.2	2293.5	2418.5	2571.9	2658.0
22.5°	2821.9	2759.4	2447.8	2259.4	2141.0	2114.5	2168.5	2277.4	2423.2	2630.6	2740.4
25°	3402.3	3313.3	2815.2	2575.7	2331.3	2190.3	2202.6	2314.3	2490.4	2766.9	2899.5
27.5°	3860.6	3802.9	3295.3	3021.7	2677.9	2394.8	2313.4	2407.1	2627.7	2990.4	3125.8
30°	4133.4	4098.3	3808.6	3527.3	3120.1	2720.5	2525.5	2581.3	2842.7	3300.1	3411.8
32.5°	4449.6	4428.8	4286.8	4028.3	3597.4	3148.6	2861.6	2841.7	3130.6	3672.2	3723.3
35°	4777.3	4770.6	4687.3	4501.7	4109.7	3712.9	3307.6	3173.2	3444.0	4058.6	4026.4
37.5°	5082.2	5070.8	5022.5	4914.6	4645.7	4319.0	3762.2	3513.1	3782.0	4427.9	4284.9
40°	5643.7	5554.7	5389.0	5307.6	5187.3	4829.4	4122.9	3830.3	4132.4	4780.1	4508.3
42.5°	6328.4	6183.5	5874.8	5763.0	5746.0	5231.8	4369.1	4138.1	4485.6	5129.5	4728.0
45°	6867.2	6730.8	6464.7	6323.6	6386.1	5596.4	4616.3	4466.7	4849.2	5496.0	4954.4
47.5°	7441.9	7227.9	6875.7	6918.3	7054.6	5941.1	4868.2	4819.9	5247.9	5906.0	5235.6
50°	7462.8	7299.0	7144.6	7399.3	7611.4	6258.3	5183.5	5190.1	5735.6	6422.1	5609.6
52.5°	7030.0	6995.0	7240.2	7640.8	7946.7	6509.2	5542.4	5572.7	6359.6	7014.9	6020.6
55°	6878.5	6838.7	7121.9	7556.5	7992.1	6716.6	5931.6	5986.5	7114.3	7639.9	6421.2
57.5°	7247.8	7159.8	7178.7	7516.8	7881.3	6943.9	6355.8	6466.6	7934.3	8186.2	6678.7
60°	8280.0	8091.5	7733.6	7725.1	7941.0	7284.8	6846.3	6981.7	8786.6	8447.6	6578.3
62.5°	9727.8	9539.4	8869.0	8432.4	8400.2	7847.2	7448.6	7484.6	9279.0	8093.4	5965.7
65°	11295.0	11126.5	10377.4	9761.0	9463.6	8779.0	8148.4	7709.0	9118.0	7119.0	4893.7
67.5°	13197.4	13016.5	12372.6	11803.5	11517.5	10282.7	8639.8	7494.0	8096.3	5514.9	3517.9
70°	14527.8	14343.2	14089.4	14550.6	15250.4	12452.2	8703.3	6620.0	6047.1	3665.6	2117.3
72.5°	12792.1	12705.9	13169.0	15111.2	18025.8	13768.4	7867.1	4819.9	3512.2	1945.9	1225.3
73°	11720.2	11701.2	12491.0	14718.2	18045.7	13565.8	7500.7	4479.9	3012.2	1721.5	1120.2
75°	5292.4	5444.9	7175.9	11242.0	15678.4	11178.5	5279.2	2570.0	1701.6	1189.3	845.6
77.5°	1271.7	1324.8	2245.2	5338.8	9901.1	6661.7	2392.0	1270.8	1088.0	839.9	617.4
80°	541.6	559.6	864.5	1972.5	4661.7	2682.7	1102.2	851.3	752.8	586.2	432.7
82.5°	301.1	320.1	490.5	894.9	1881.6	914.7	672.3	592.8	495.2	353.2	281.2
85°	170.4	180.9	286.9	500.0	797.3	367.4	402.4	393.9	279.3	181.8	138.3
87.5°	80.5	87.1	138.3	232.0	312.5	143.9	204.5	225.4	175.2	110.8	72.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2
2.5°	2974.3	2991.4	3011.2	3021.7	3031.1	3042.5	3053.9	3053.9	3055.8	3056.7
5°	2953.5	2988.5	3019.8	3033.0	3035.9	3035.9	3033.0	3017.9	3004.6	3010.3
7.5°	2909.9	2961.1	2987.6	2982.8	2946.9	2905.2	2870.2	2827.5	2805.8	2802.0
10°	2847.4	2906.1	2910.9	2863.5	2774.5	2685.5	2611.6	2539.7	2505.6	2497.1
12.5°	2778.3	2832.3	2802.0	2704.4	2561.5	2431.7	2338.0	2265.1	2232.9	2224.3
15°	2722.4	2759.4	2682.7	2529.3	2349.3	2212.0	2134.4	2080.4	2057.7	2051.1
17.5°	2693.1	2700.7	2560.5	2353.1	2161.8	2047.3	1999.0	1973.4	1964.9	1960.2
20°	2707.3	2654.3	2444.0	2189.3	2008.4	1928.0	1916.6	1910.0	1908.1	1905.2
22.5°	2778.3	2640.0	2337.0	2034.0	1874.0	1838.9	1848.4	1847.5	1845.6	1843.7
25°	2905.2	2652.4	2232.9	1886.3	1761.3	1753.7	1770.8	1770.8	1763.2	1763.2
27.5°	3072.8	2677.9	2116.4	1746.1	1659.0	1660.0	1673.2	1669.4	1660.9	1655.2
30°	3277.3	2694.0	1980.0	1620.2	1563.4	1559.6	1563.4	1547.3	1521.7	1519.8
32.5°	3486.6	2674.1	1821.9	1508.5	1462.1	1453.5	1450.7	1428.0	1398.6	1390.1
35°	3676.0	2601.2	1660.9	1419.5	1365.5	1346.5	1359.8	1352.2	1325.7	1319.1
37.5°	3814.2	2465.8	1516.0	1340.9	1296.4	1291.6	1300.1	1303.0	1271.7	1265.1
40°	3907.0	2282.1	1392.0	1274.6	1283.1	1265.1	1236.7	1216.8	1207.3	1204.5
42.5°	3981.9	2090.8	1287.8	1243.3	1285.9	1233.9	1172.3	1140.1	1157.2	1164.7
45°	4068.0	1904.3	1200.7	1204.5	1271.7	1197.9	1127.8	1096.5	1103.2	1105.1
47.5°	4186.4	1677.0	1107.0	1142.0	1224.4	1173.2	1100.3	1055.8	1024.6	1010.4
50°	4350.2	1408.1	1009.4	1071.9	1178.0	1155.3	1057.7	1010.4	952.6	939.4
52.5°	4463.8	1157.2	928.9	1013.2	1136.3	1119.3	1023.6	962.1	901.5	890.1
55°	4402.3	961.1	858.9	947.9	1081.4	1074.8	995.2	912.8	865.5	856.0
57.5°	4094.5	837.1	804.9	886.3	1014.2	1036.9	957.3	871.2	837.1	830.5
60°	3507.4	759.4	770.8	844.7	959.2	999.0	919.5	848.5	825.7	821.0
62.5°	2721.5	707.4	745.2	814.4	916.6	972.5	898.6	845.6	837.1	831.4
65°	1949.7	665.7	717.8	784.1	877.8	947.9	891.1	841.8	843.7	839.0
67.5°	1324.8	628.8	684.6	750.0	839.9	926.1	880.6	828.6	852.2	846.6
70°	927.0	592.8	645.8	706.4	792.6	895.8	861.7	808.7	806.8	784.1
72.5°	723.5	545.4	592.8	645.8	732.0	853.2	823.8	764.2	732.9	709.3
73°	690.3	534.1	579.5	632.6	718.7	842.8	813.4	751.9	716.8	695.0
75°	571.0	484.8	526.5	573.8	661.9	793.5	762.3	696.0	651.5	638.2
77.5°	448.8	414.8	454.5	497.1	583.3	721.6	686.5	623.1	598.5	587.1
80°	332.4	343.7	378.8	416.7	505.7	644.9	613.6	550.2	660.0	632.6
82.5°	233.9	260.4	292.6	326.7	424.2	570.1	532.2	466.8	482.9	401.5
85°	138.3	170.4	200.7	230.1	305.9	472.5	439.4	372.1	304.9	290.7
87.5°	80.5	94.7	103.2	133.5	210.2	356.0	309.6	275.6	158.1	107.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)