

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: P193202

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25480.3 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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



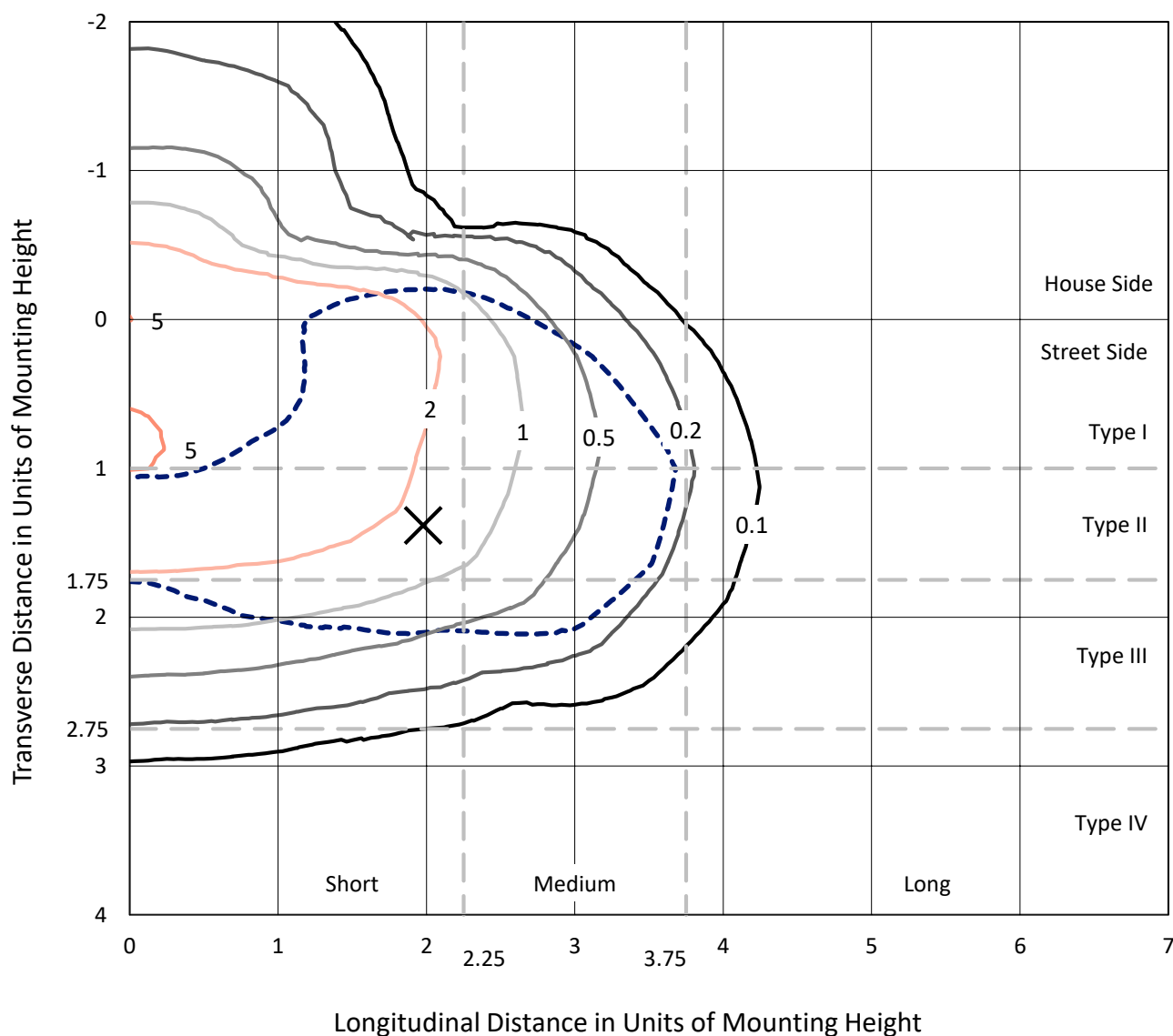
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

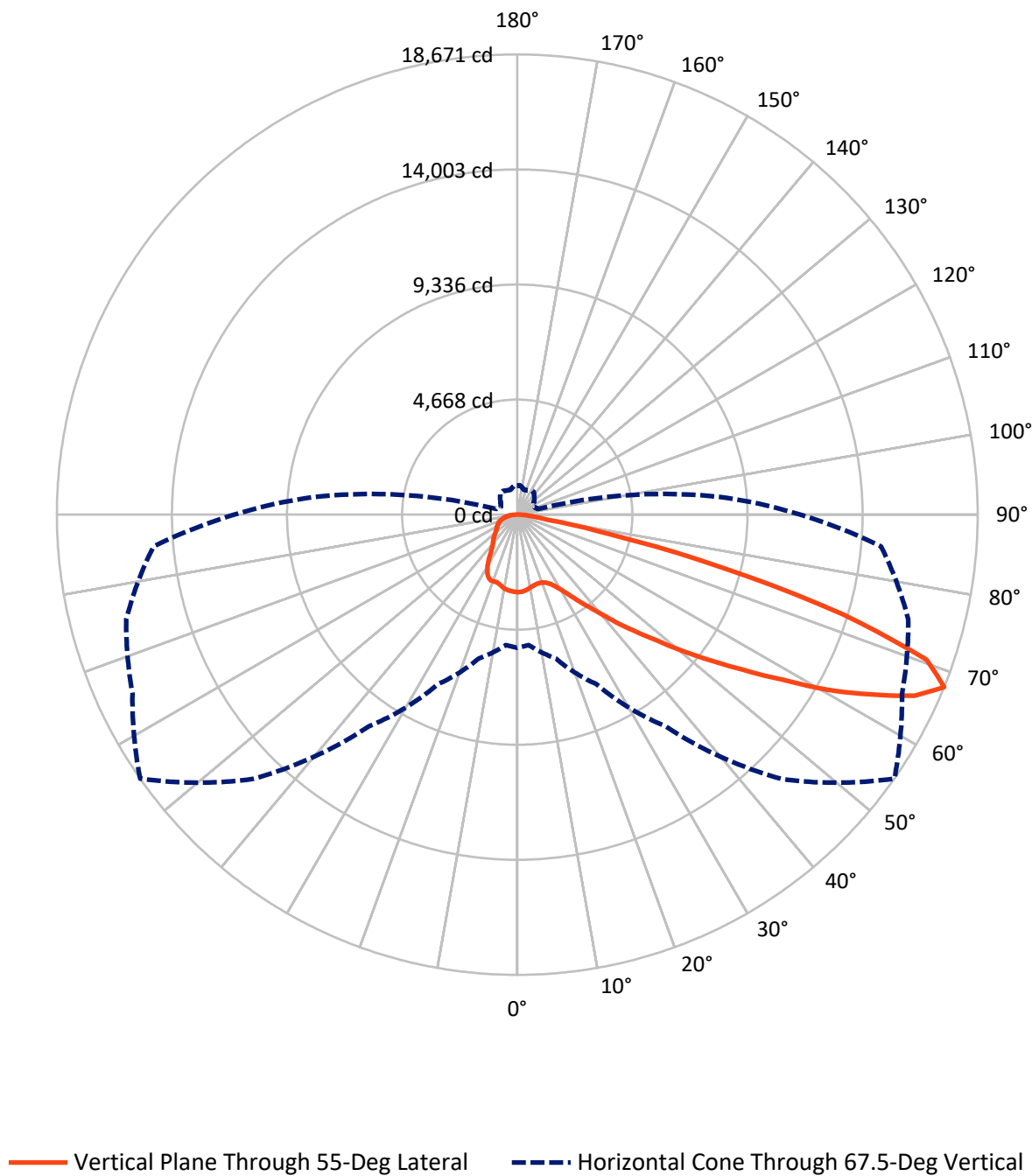


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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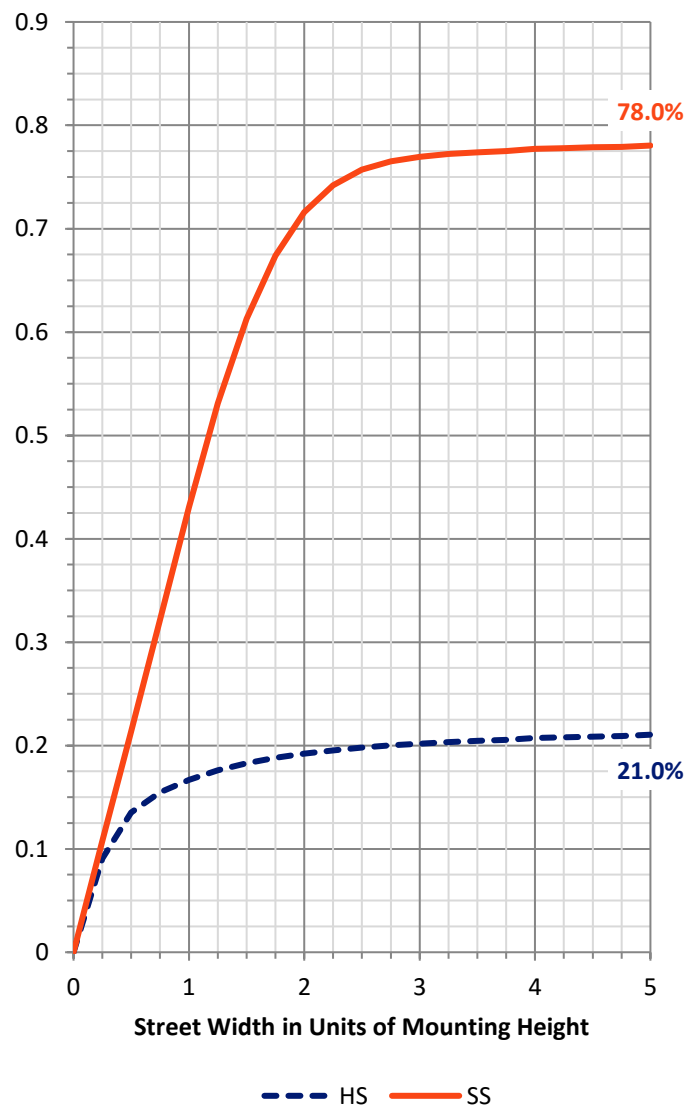
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5504.3	0.0	5504.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	19976.0	0.0	19976.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	25480.3	0.0	25480.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.3	1.2
10°-20°	830.6	3.3
20°-30°	1391.3	5.5
30°-40°	2288.0	9.0
40°-50°	3851.4	15.1
50°-60°	6061.8	23.8
60°-70°	7234.1	28.4
70°-80°	3106.4	12.2
80°-90°	423.5	1.7
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°	25480.3	100.0
0°-180°	25480.3	100.0

Coefficient of Utilization



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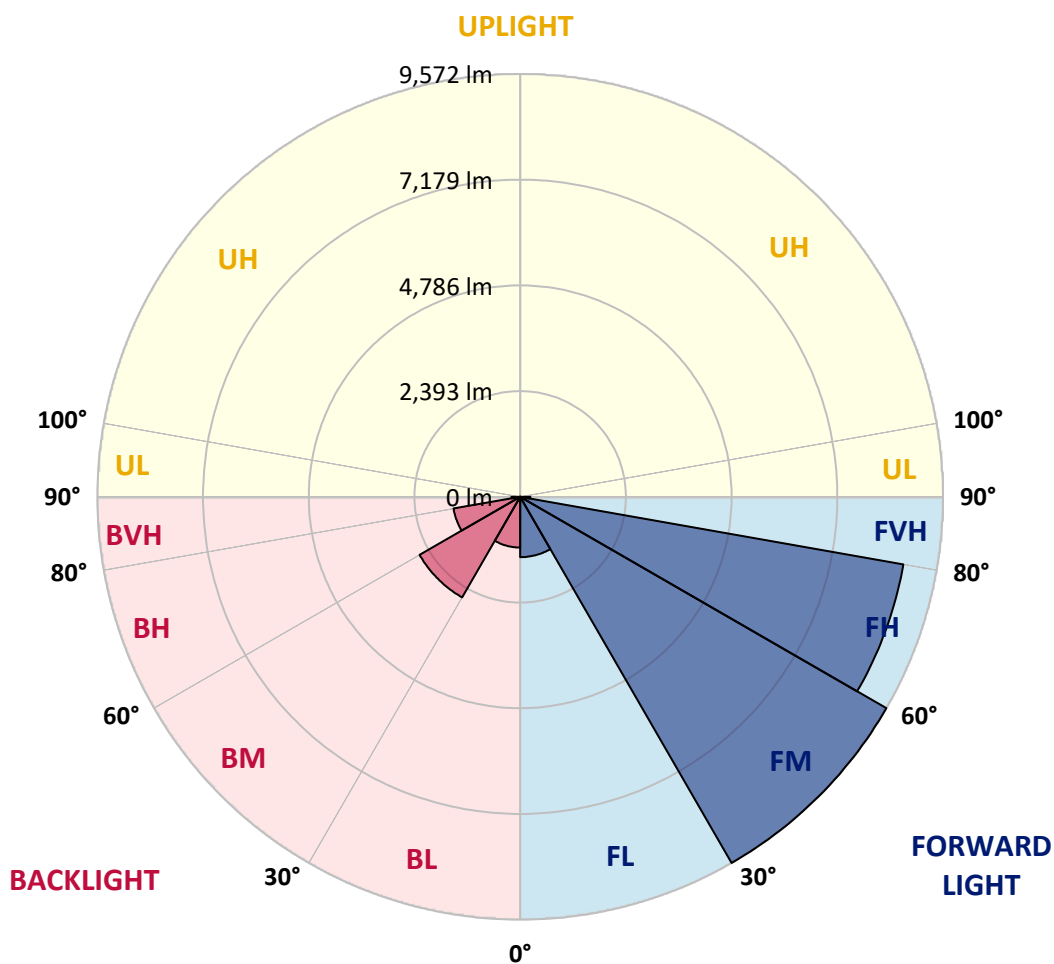
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1365.8	5.4			
FM	(30°-60°)	9572.3	37.6			
FH	(60°-80°)	8808.7	34.6			G4/12000
FVH	(80°-90°)	229.3	0.9			G3/500
BL	(0°-30°)	1149.4	4.5	B3/2500		
BM	(30°-60°)	2628.8	10.3	B3/5000		
BH	(60°-80°)	1531.8	6.0	B3/2500		G3/2500
BVH	(80°-90°)	194.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3142.0	3142.0	3142.0	3142.0	3142.0	3142.0	3142.0	3142.0	3142.0	3142.0	3142.0
2.5°	3115.0	3116.2	3118.6	3128.4	3137.1	3134.6	3135.8	3131.0	3129.7	3122.3	3129.7
5°	3075.5	3079.3	3080.4	3096.5	3106.3	3108.8	3105.0	3098.9	3091.6	3084.2	3087.8
7.5°	2985.7	2995.6	2996.8	3019.0	3034.9	3055.9	3057.1	3058.2	3054.7	3049.8	3057.1
10°	2929.1	2931.5	2930.4	2946.2	2958.6	2982.0	2995.6	3019.0	3028.7	3031.3	3036.2
12.5°	2925.4	2922.9	2919.3	2919.3	2915.6	2925.4	2950.0	2983.3	3006.6	3014.0	3020.2
15°	2964.8	2963.5	2951.2	2932.7	2909.3	2902.0	2922.9	2959.9	2990.7	3006.6	3012.9
17.5°	3053.4	3046.0	3026.4	2984.5	2934.0	2914.3	2916.7	2947.6	2983.3	3004.2	3010.3
20°	3215.8	3215.8	3174.0	3095.2	3005.4	2958.6	2936.5	2954.9	2989.5	3017.7	3026.4
22.5°	3496.4	3498.9	3428.8	3299.5	3148.2	3048.5	2993.0	2989.5	3030.0	3062.0	3071.9
25°	3894.0	3884.1	3785.7	3601.0	3370.8	3206.0	3109.9	3087.8	3122.3	3158.0	3170.2
27.5°	4356.7	4320.9	4204.1	3981.3	3683.5	3442.3	3294.6	3258.8	3292.2	3332.7	3345.1
30°	4814.5	4777.6	4638.6	4394.9	4063.8	3758.6	3546.9	3489.0	3535.8	3593.6	3601.0
32.5°	5272.5	5272.5	5117.2	4833.0	4472.4	4136.4	3882.8	3814.0	3891.5	3961.6	3977.7
35°	5820.0	5822.5	5672.3	5330.2	4942.6	4586.8	4307.4	4257.1	4373.9	4423.2	4461.3
37.5°	6493.3	6506.7	6313.5	5900.0	5475.4	5101.4	4769.0	4700.2	4817.0	4951.2	5074.2
40°	7220.6	7237.8	7025.0	6515.3	6090.7	5699.4	5340.0	5215.7	5410.2	5666.1	5824.9
42.5°	7914.7	8003.4	7797.9	7273.5	6816.9	6412.0	6047.7	5866.7	6110.5	6496.9	6634.8
45°	8917.7	8981.7	8623.7	8148.5	7719.0	7266.1	6783.7	6592.9	6933.8	7421.2	7449.6
47.5°	9586.0	9538.0	9355.9	9060.6	8788.5	8365.1	7639.0	7429.8	7882.7	8456.2	8297.4
50°	9941.7	9956.5	9931.8	9949.0	9958.9	9693.1	8687.6	8400.8	8941.1	9634.1	9268.5
52.5°	10273.9	10175.6	10256.7	10660.4	11147.8	11049.3	9828.4	9529.4	10075.8	10941.0	10295.0
55°	10266.5	10116.5	10381.0	11093.6	12150.8	12264.1	11109.6	10765.0	11275.8	12342.8	11382.8
57.5°	9903.6	9910.9	10318.3	11251.2	12849.9	13406.1	12596.3	12079.3	12548.3	13763.1	12376.1
60°	9403.8	9471.5	10058.6	11225.3	13409.8	14342.7	14420.2	13496.0	13795.1	15054.1	13198.2
62.5°	8597.7	8669.1	9478.9	10957.1	13324.9	15244.8	16069.5	15103.2	15098.3	15836.8	13439.3
65°	7326.4	7305.5	8155.8	9953.9	12612.4	15911.9	17707.4	16492.8	16080.4	15849.1	12954.5
67.5°	5402.9	5309.2	6039.1	7581.2	10483.2	15164.8	18671.1	17216.4	16415.2	14806.7	11472.7
70°	2803.6	2710.0	3300.7	4426.8	6894.5	11835.7	17604.1	16842.4	15675.5	12411.8	8987.8
72.5°	1198.7	1182.7	1422.7	1942.1	3335.2	6826.7	13803.7	14577.8	13450.5	9247.6	6179.3
75°	806.2	801.2	891.0	1058.4	1500.2	2770.4	8638.4	10347.8	9840.8	5733.9	3475.5
77.5°	632.6	626.4	679.4	760.6	972.3	1092.9	3833.7	5555.4	5142.0	2495.9	1521.1
80°	494.7	489.8	523.1	567.4	699.0	689.2	1261.5	2210.4	1710.7	956.2	739.6
82.5°	390.2	390.2	417.3	418.5	495.9	470.2	658.4	973.5	854.1	557.6	452.9
85°	356.9	356.9	385.2	312.6	323.6	296.6	408.6	577.2	541.5	228.9	196.8
87.5°	179.7	174.9	323.6	276.9	176.0	157.6	199.4	279.3	300.3	126.7	98.5
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°	3142.0	3142.0	3142.0	3142.0	3142.0	3142.0	3142.0	3142.0	3142.0	3142.0
2.5°	3127.2	3126.0	3128.4	3129.7	3139.6	3153.1	3159.2	3167.9	3172.8	3170.2
5°	3090.3	3092.8	3102.6	3109.9	3127.2	3149.4	3161.8	3171.6	3180.2	3176.5
7.5°	3059.6	3065.7	3080.4	3086.6	3096.5	3102.6	3101.5	3105.0	3112.5	3103.8
10°	3042.4	3049.8	3060.8	3052.1	3028.7	2995.6	2964.8	2948.8	2953.8	2947.6
12.5°	3025.1	3034.9	3026.4	2985.7	2920.5	2877.5	2854.1	2856.5	2867.5	2870.0
15°	3015.2	3019.0	2982.0	2905.8	2839.2	2833.1	2845.4	2842.9	2844.1	2844.1
17.5°	3015.2	3005.4	2936.5	2860.2	2831.9	2820.7	2782.7	2734.6	2713.7	2706.4
20°	3031.3	3005.4	2921.7	2871.3	2809.7	2715.0	2614.0	2525.4	2486.0	2474.9
22.5°	3079.3	3034.9	2963.5	2876.1	2701.4	2542.7	2382.6	2276.9	2205.4	2193.2
25°	3176.5	3127.2	3046.0	2810.9	2529.2	2302.6	2120.5	2002.4	1930.9	1921.1
27.5°	3346.3	3314.3	3090.3	2666.9	2300.2	2057.8	1889.1	1798.1	1745.2	1741.5
30°	3602.3	3586.3	3068.1	2454.1	2018.3	1820.3	1739.0	1686.1	1646.6	1645.5
32.5°	4010.9	3881.7	2995.6	2194.4	1761.2	1651.6	1618.3	1586.3	1555.7	1555.7
35°	4536.5	4120.3	2857.6	1916.2	1604.8	1558.0	1516.2	1465.8	1425.2	1422.7
37.5°	5154.2	4268.1	2610.3	1692.2	1531.0	1495.3	1433.8	1358.7	1287.3	1275.0
40°	5778.1	4312.5	2262.0	1554.4	1484.3	1432.5	1357.4	1268.8	1200.0	1196.3
42.5°	6350.4	4227.5	1892.8	1459.6	1437.6	1368.6	1289.8	1211.0	1156.8	1155.6
45°	6830.5	4007.2	1582.7	1369.8	1388.2	1310.7	1240.5	1176.6	1134.7	1126.1
47.5°	7282.1	3695.8	1364.8	1275.0	1339.0	1278.7	1219.7	1159.4	1118.7	1112.6
50°	7806.3	3359.8	1212.2	1182.7	1296.0	1267.6	1236.9	1174.1	1106.4	1099.0
52.5°	8441.5	3069.4	1092.9	1101.5	1262.7	1282.3	1281.2	1215.9	1097.8	1087.9
55°	9150.4	2747.0	1003.0	1035.0	1249.2	1309.5	1292.2	1255.3	1105.1	1090.4
57.5°	9848.2	2370.4	940.2	984.5	1229.5	1307.1	1239.3	1186.4	1122.4	1101.5
60°	10371.2	1864.5	892.2	940.2	1186.4	1266.5	1181.5	1111.3	1118.7	1102.8
62.5°	10405.7	1441.1	834.4	902.2	1121.2	1225.8	1143.3	1078.1	1134.7	1119.9
65°	9794.0	1089.2	779.0	856.6	1051.1	1200.0	1106.4	1059.6	1168.0	1151.9
67.5°	8245.8	876.3	732.2	809.8	980.9	1145.8	1073.2	1042.5	1197.5	1169.2
70°	5953.0	747.0	686.7	753.3	918.1	1084.3	1043.7	1011.6	1117.5	1073.2
72.5°	3665.1	647.4	635.1	678.2	870.1	1020.3	999.2	953.9	1006.8	971.0
75°	1830.1	561.1	577.2	604.3	802.4	947.6	925.5	880.0	887.3	880.0
77.5°	876.3	479.9	509.4	530.5	715.0	865.3	841.9	795.1	786.4	787.6
80°	555.0	401.2	429.5	444.2	638.7	769.1	745.8	699.0	797.5	739.6
82.5°	347.0	326.1	333.6	360.5	556.2	669.5	638.7	596.9	718.7	568.5
85°	192.0	227.7	237.5	260.9	428.3	560.0	529.3	476.3	427.1	419.7
87.5°	114.5	135.4	139.1	156.3	288.0	405.0	358.2	339.7	281.8	280.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)