

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: P193281

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193281
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-03-LED-E1-T4FT-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

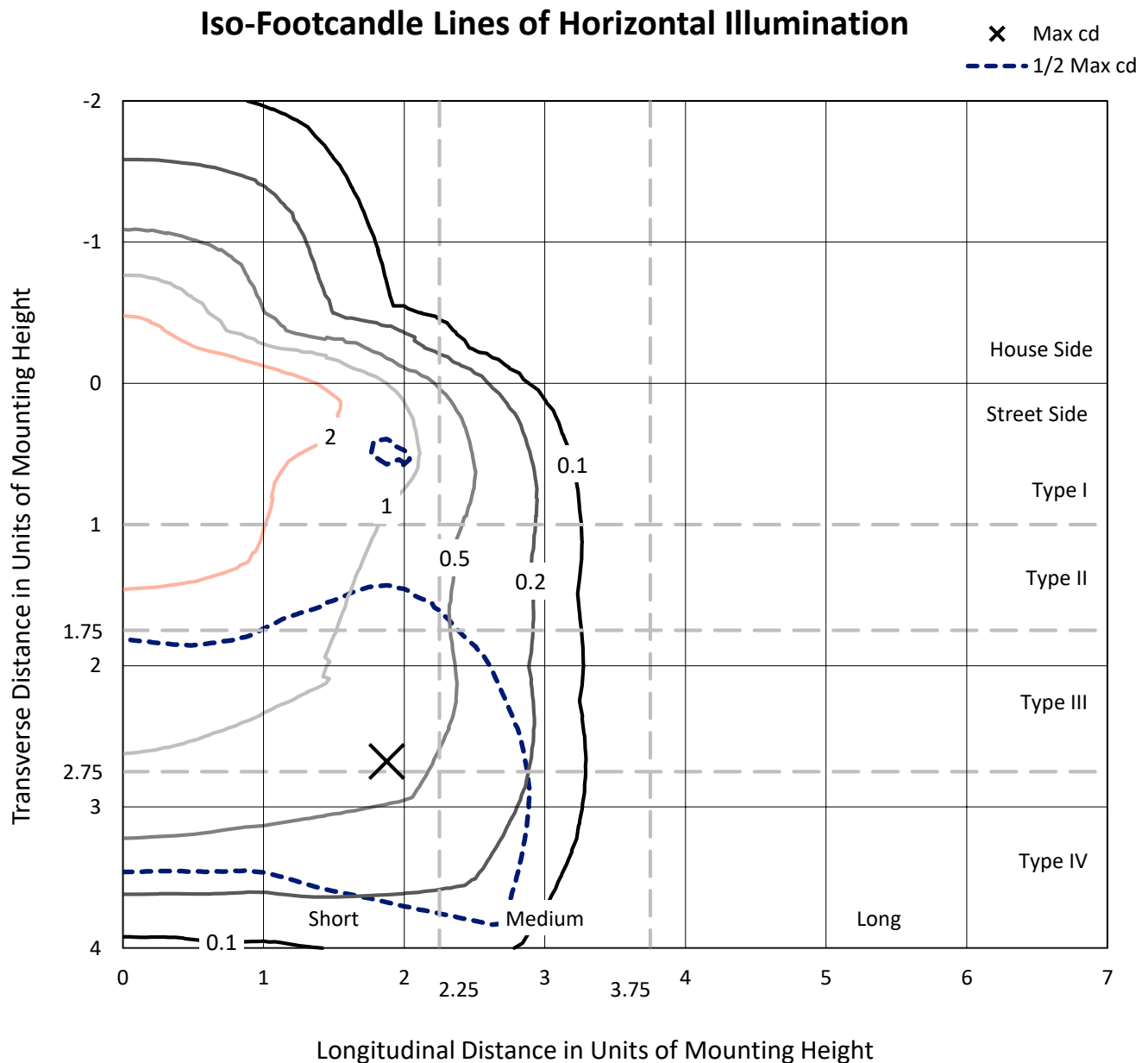
Lumens per Lamp: N/A
Luminaire Lumens: 19396.8 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 191
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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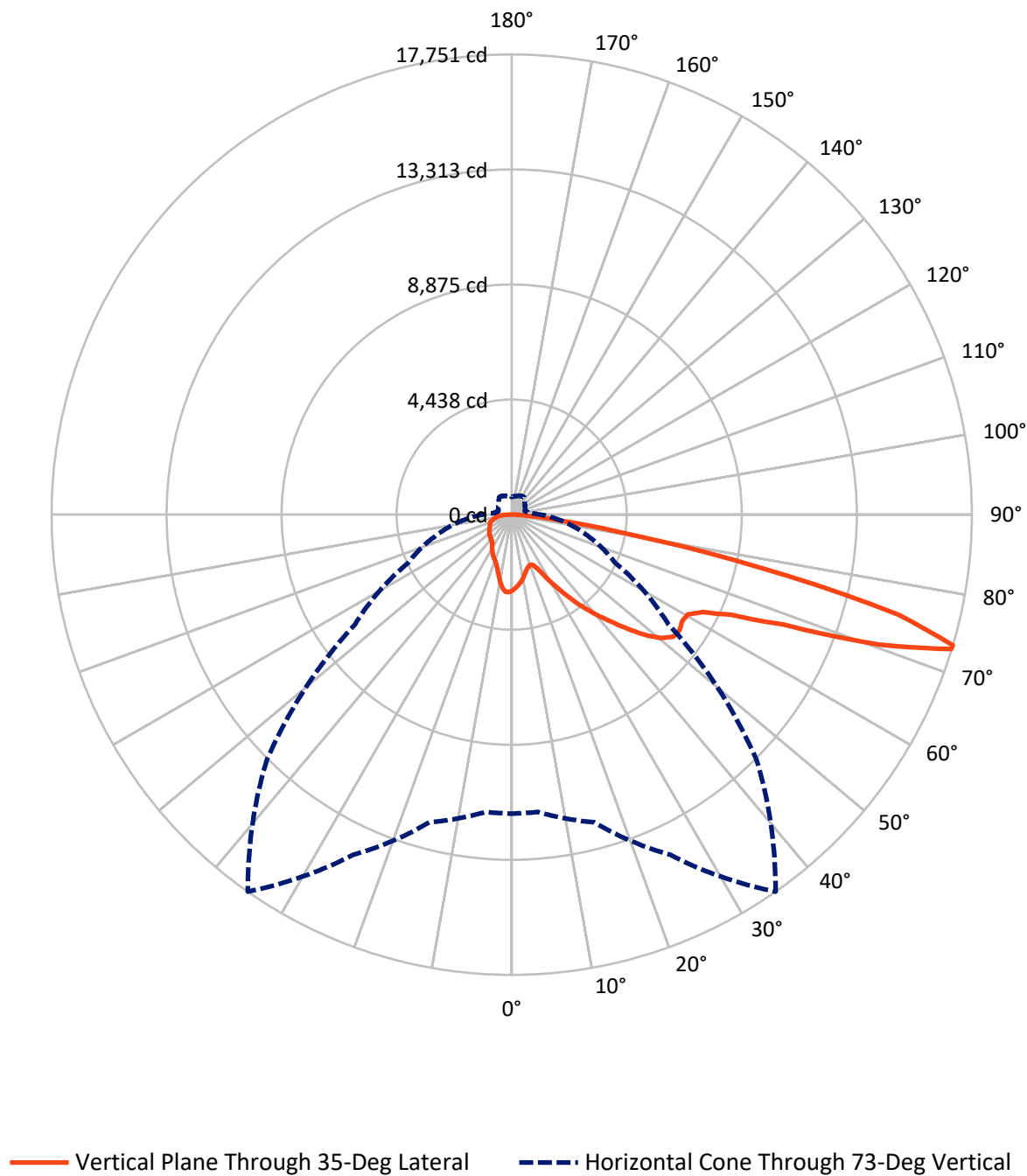


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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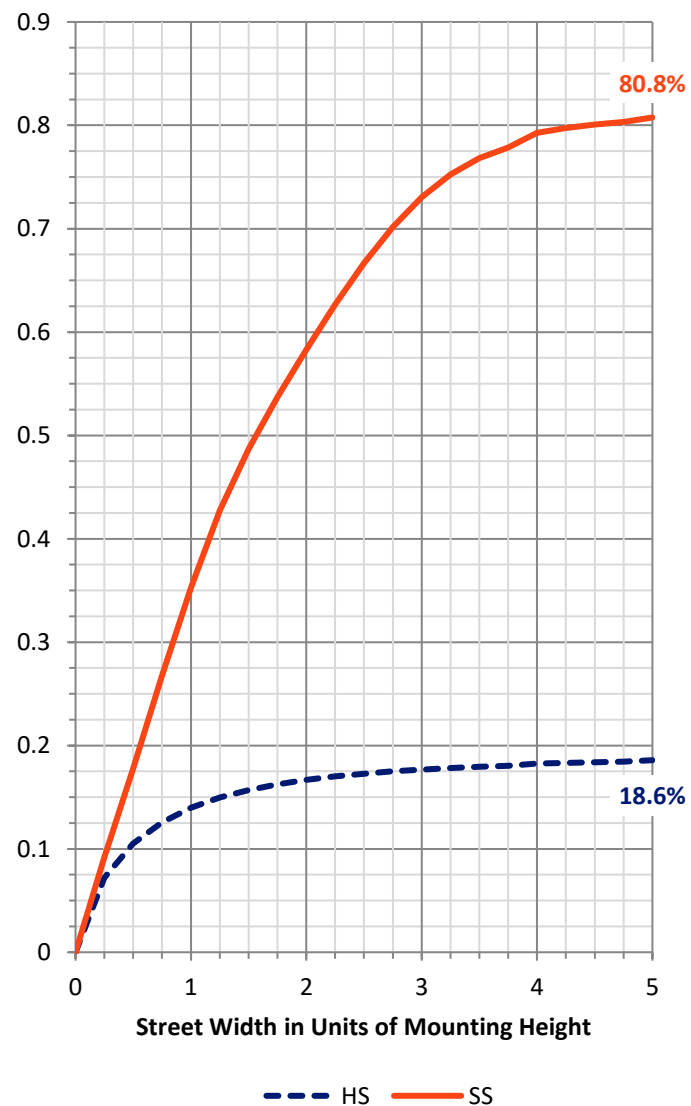
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3699.5	0.0	3699.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	15697.3	0.0	15697.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	19396.8	0.0	19396.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	1.4
10°-20°	661.5	3.4
20°-30°	1069.4	5.5
30°-40°	1793.2	9.2
40°-50°	2764.1	14.3
50°-60°	3708.3	19.1
60°-70°	4940.3	25.5
70°-80°	3767.9	19.4
80°-90°	427.1	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°	19396.8	100.0
0°-180°	19396.8	100.0

Coefficient of Utilization



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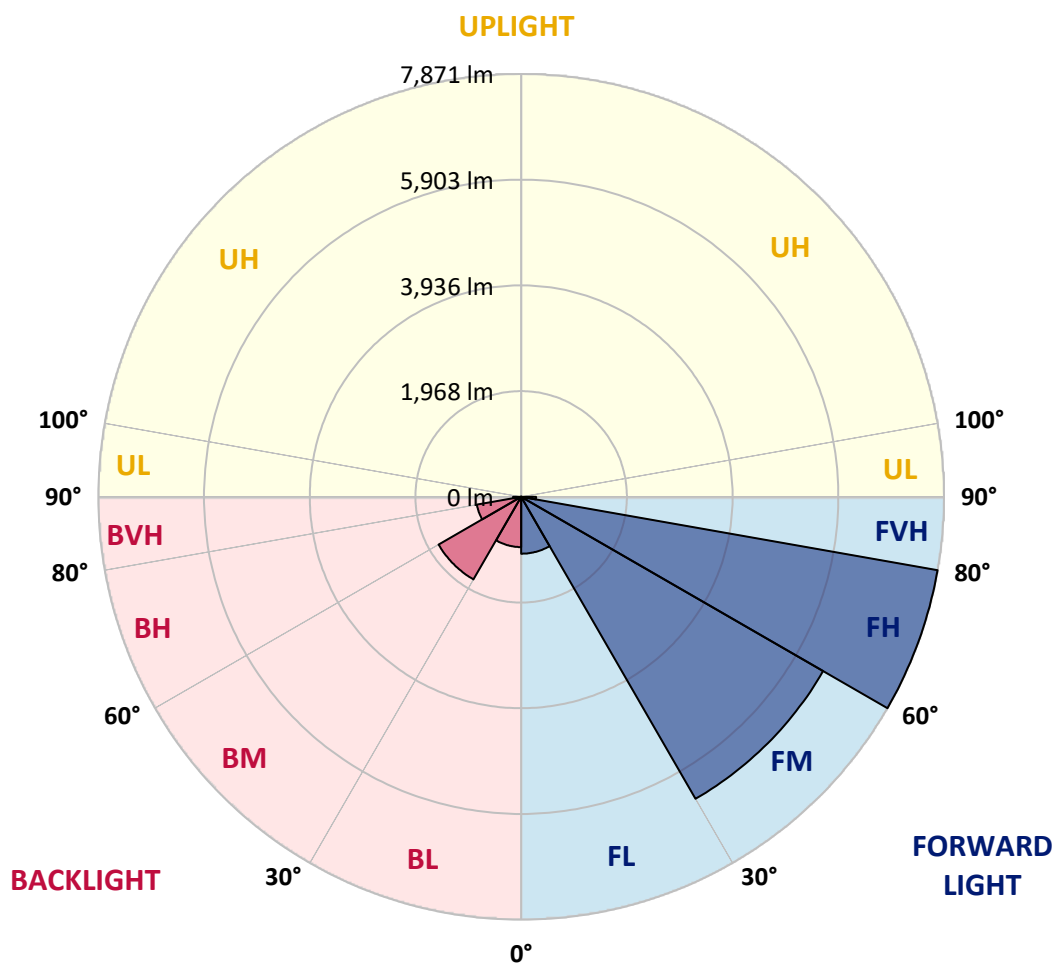
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1059.7	5.5			
FM	(30°-60°)	6490.3	33.5			
FH	(60°-80°)	7871.2	40.6			G4/12000
FVH	(80°-90°)	276.1	1.4			G3/500
BL	(0°-30°)	936.1	4.8	B2/1000		
BM	(30°-60°)	1775.3	9.2	B2/2500		
BH	(60°-80°)	837.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	151.0	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°	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6
2.5°	2812.2	2817.7	2811.1	2819.6	2833.5	2848.4	2858.7	2873.5	2890.4	2913.6	2919.2
5°	2679.8	2688.3	2688.3	2703.1	2730.1	2754.3	2776.8	2800.9	2836.3	2876.4	2892.2
7.5°	2534.5	2539.1	2547.5	2569.9	2609.0	2643.5	2675.1	2714.3	2762.7	2815.8	2843.8
10°	2359.4	2365.9	2378.9	2410.6	2463.7	2511.3	2556.8	2610.9	2672.4	2738.5	2773.9
12.5°	2235.6	2233.6	2239.3	2262.5	2309.0	2366.9	2432.9	2501.9	2577.3	2654.7	2697.5
15°	2193.6	2183.3	2161.9	2156.3	2181.5	2239.3	2315.6	2400.4	2490.7	2583.9	2637.0
17.5°	2219.7	2202.0	2143.3	2100.4	2096.6	2140.5	2221.6	2316.6	2420.8	2534.5	2600.6
20°	2383.6	2341.7	2197.3	2097.7	2063.2	2084.5	2155.3	2255.9	2378.9	2529.9	2614.6
22.5°	2775.7	2714.3	2407.8	2222.5	2106.1	2080.0	2133.1	2240.2	2383.6	2587.6	2695.7
25°	3346.7	3259.2	2769.2	2533.6	2293.3	2154.5	2166.6	2276.5	2449.7	2721.7	2852.1
27.5°	3797.6	3740.7	3241.5	2972.3	2634.1	2355.6	2275.6	2367.7	2584.8	2941.6	3074.8
30°	4065.9	4031.3	3746.3	3469.6	3069.2	2676.1	2484.2	2539.1	2796.3	3246.1	3356.0
32.5°	4376.9	4356.3	4216.8	3962.4	3538.6	3097.1	2814.8	2795.3	3079.4	3612.2	3662.5
35°	4699.2	4692.6	4610.7	4428.2	4042.5	3652.2	3253.6	3121.3	3387.7	3992.3	3960.5
37.5°	4999.1	4988.0	4940.4	4834.2	4569.8	4248.4	3700.7	3455.8	3720.3	4355.5	4214.9
40°	5551.5	5463.9	5300.9	5220.9	5102.5	4750.5	4055.6	3767.8	4064.9	4702.0	4434.8
42.5°	6224.9	6082.5	5778.8	5668.9	5652.1	5146.3	4297.7	4070.5	4412.3	5045.7	4650.7
45°	6755.0	6620.8	6359.1	6220.2	6281.8	5504.9	4540.9	4393.8	4770.0	5406.1	4873.4
47.5°	7320.4	7109.8	6763.3	6805.2	6939.4	5843.9	4788.7	4741.1	5162.2	5809.6	5150.1
50°	7340.8	7179.7	7027.9	7278.5	7487.1	6156.0	5098.8	5105.3	5641.8	6317.2	5517.9
52.5°	6915.1	6880.7	7121.9	7516.0	7816.9	6402.8	5451.8	5481.6	6255.6	6900.3	5922.2
55°	6766.1	6727.0	7005.4	7433.0	7861.5	6606.8	5834.7	5888.6	6998.0	7515.1	6316.3
57.5°	7129.3	7042.8	7061.4	7393.9	7752.5	6830.4	6252.0	6361.0	7804.7	8052.5	6569.5
60°	8144.7	7959.3	7607.2	7598.9	7811.3	7165.8	6734.4	6867.7	8643.1	8309.6	6470.9
62.5°	9568.9	9383.5	8724.1	8294.6	8262.9	7719.0	7326.8	7362.2	9127.4	7961.1	5868.2
65°	11110.5	10944.6	10207.9	9601.4	9309.0	8635.6	8015.3	7583.0	8969.0	7002.8	4813.8
67.5°	12981.7	12803.9	12170.5	11610.7	11329.3	10114.6	8498.6	7371.6	7964.0	5424.8	3460.3
70°	14290.4	14108.8	13859.2	14312.9	15001.2	12248.7	8561.0	6511.9	5948.3	3605.7	2082.7
72.5°	12583.1	12498.3	12953.8	14864.2	17731.2	13543.4	7738.7	4741.1	3454.8	1914.1	1205.3
73°	11528.7	11510.0	12286.9	14477.7	17750.8	13344.1	7378.1	4406.8	2963.0	1693.4	1101.9
75°	5205.8	5355.9	7058.5	11058.3	15422.2	10995.9	5192.9	2527.9	1673.9	1169.9	831.8
77.5°	1250.9	1303.1	2208.4	5251.5	9739.4	6552.9	2352.9	1250.0	1070.2	826.2	607.3
80°	532.7	550.4	850.5	1940.2	4585.6	2638.8	1084.2	837.4	740.6	576.6	425.7
82.5°	296.2	314.8	482.5	880.2	1850.9	899.7	661.3	583.1	487.2	347.5	276.7
85°	167.7	177.9	282.2	491.7	784.3	361.4	395.8	387.5	274.8	178.8	136.0
87.5°	79.2	85.7	136.0	228.3	307.3	141.6	201.1	221.7	172.3	108.9	70.8
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°	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6
2.5°	2925.8	2942.5	2962.0	2972.3	2981.5	2992.8	3004.0	3004.0	3005.8	3006.7
5°	2905.2	2939.7	2970.4	2983.5	2986.3	2986.3	2983.5	2968.6	2955.6	2961.2
7.5°	2862.4	2912.7	2938.7	2934.0	2898.7	2857.6	2823.3	2781.3	2759.9	2756.2
10°	2800.9	2858.7	2863.3	2816.7	2729.2	2641.7	2569.0	2498.2	2464.7	2456.2
12.5°	2732.9	2786.0	2756.2	2660.3	2519.6	2392.0	2299.8	2228.1	2196.3	2188.0
15°	2678.0	2714.3	2638.8	2488.0	2311.0	2175.9	2099.5	2046.4	2024.0	2017.6
17.5°	2649.1	2656.5	2518.7	2314.6	2126.5	2013.8	1966.3	1941.2	1932.8	1928.1
20°	2663.0	2610.9	2404.1	2153.5	1975.6	1896.4	1885.3	1878.7	1876.8	1874.2
22.5°	2732.9	2596.9	2298.9	2000.7	1843.3	1808.9	1818.2	1817.3	1815.5	1813.6
25°	2857.6	2609.0	2196.3	1855.4	1732.6	1725.1	1741.8	1741.8	1734.4	1734.4
27.5°	3022.5	2634.1	2081.8	1717.7	1631.9	1632.9	1645.9	1642.1	1633.8	1628.2
30°	3223.8	2650.0	1947.6	1593.8	1537.9	1534.1	1537.9	1522.0	1496.9	1495.0
32.5°	3429.6	2630.4	1792.2	1483.8	1438.2	1429.7	1427.0	1404.6	1375.8	1367.4
35°	3615.9	2558.8	1633.8	1396.3	1343.2	1324.5	1337.6	1330.1	1304.0	1297.6
37.5°	3752.0	2425.5	1491.3	1319.0	1275.2	1270.4	1278.9	1281.7	1250.9	1244.5
40°	3843.2	2244.8	1369.2	1253.8	1262.2	1244.5	1216.5	1196.9	1187.6	1184.8
42.5°	3916.8	2056.7	1266.8	1223.0	1264.9	1213.7	1153.1	1121.4	1138.3	1145.7
45°	4001.5	1873.1	1181.1	1184.8	1250.9	1178.3	1109.4	1078.6	1085.2	1087.0
47.5°	4118.0	1649.6	1088.9	1123.3	1204.4	1154.1	1082.3	1038.6	1007.8	993.8
50°	4279.1	1385.1	992.9	1054.5	1158.7	1136.4	1040.4	993.8	937.0	924.0
52.5°	4390.9	1138.3	913.7	996.7	1117.7	1101.0	1007.0	946.4	886.7	875.6
55°	4330.4	945.4	844.8	932.4	1063.7	1057.2	979.0	897.9	851.3	842.1
57.5°	4027.7	823.4	791.7	871.9	997.6	1019.9	941.7	856.9	823.4	816.9
60°	3450.1	747.0	758.3	830.9	943.6	982.7	904.4	834.6	812.3	807.5
62.5°	2677.1	695.8	733.0	801.1	901.6	956.6	883.9	831.8	823.4	817.8
65°	1917.8	654.8	706.1	771.3	863.4	932.4	876.5	828.0	830.0	825.2
67.5°	1303.1	618.5	673.5	737.7	826.2	911.0	866.2	815.1	838.3	832.8
70°	911.9	583.1	635.3	694.9	779.7	881.1	847.7	795.5	793.6	771.3
72.5°	711.6	536.6	583.1	635.3	720.0	839.2	810.3	751.7	721.0	697.6
73°	679.0	525.3	570.0	622.2	707.0	829.0	800.1	739.5	705.2	683.8
75°	561.7	476.9	517.9	564.5	651.0	780.5	749.8	684.6	640.8	627.8
77.5°	441.5	408.0	447.1	489.1	573.8	709.7	675.3	613.0	588.7	577.6
80°	326.9	338.1	372.6	409.8	497.3	634.4	603.5	541.2	649.2	622.2
82.5°	230.1	256.1	287.8	321.3	417.3	560.7	523.5	459.2	475.1	395.0
85°	136.0	167.7	197.4	226.3	300.9	464.8	432.2	366.0	299.9	285.9
87.5°	79.2	93.2	101.5	131.3	206.8	350.1	304.7	271.1	155.5	105.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)