

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: P194716

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T2-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46814 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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



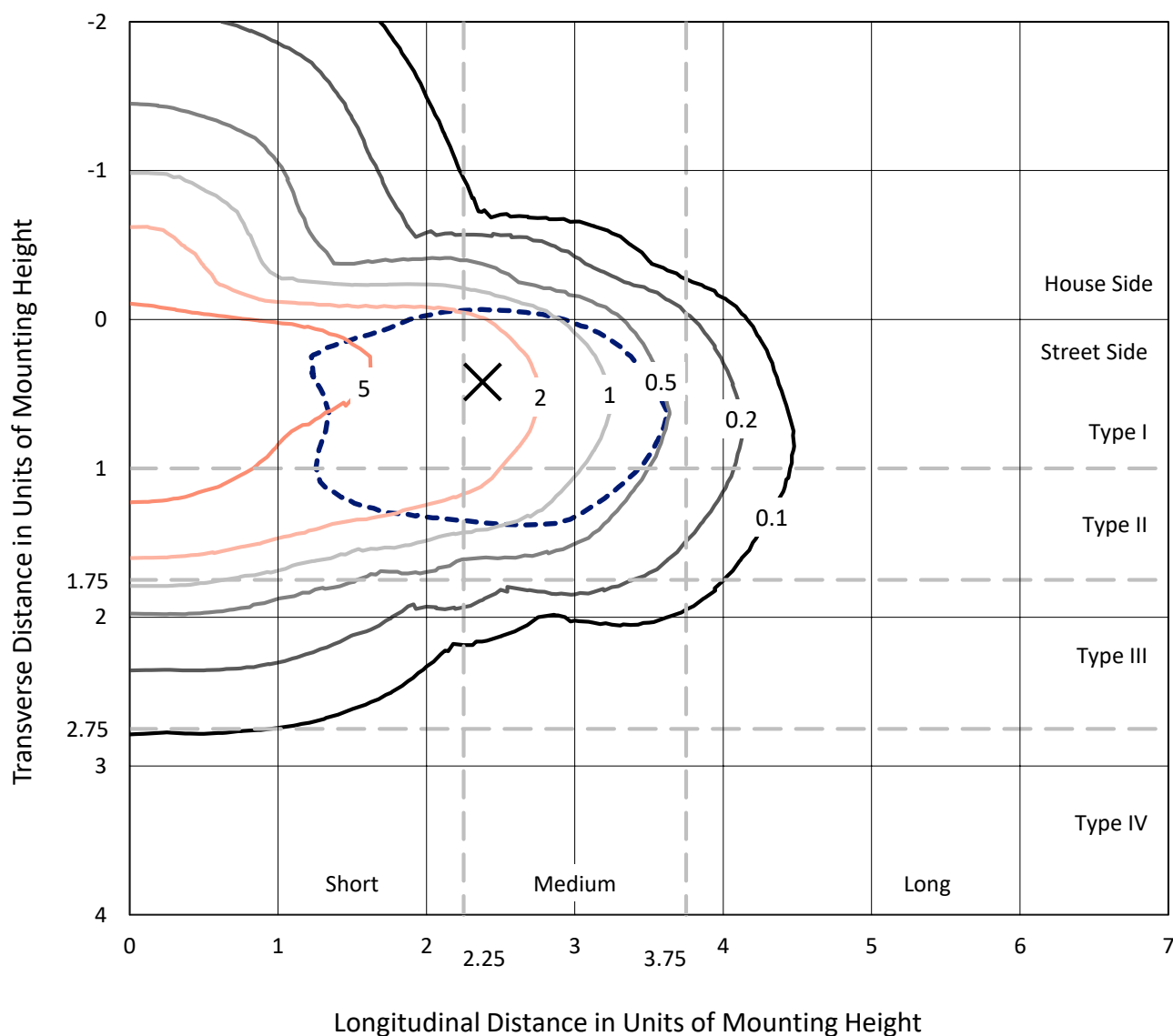
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

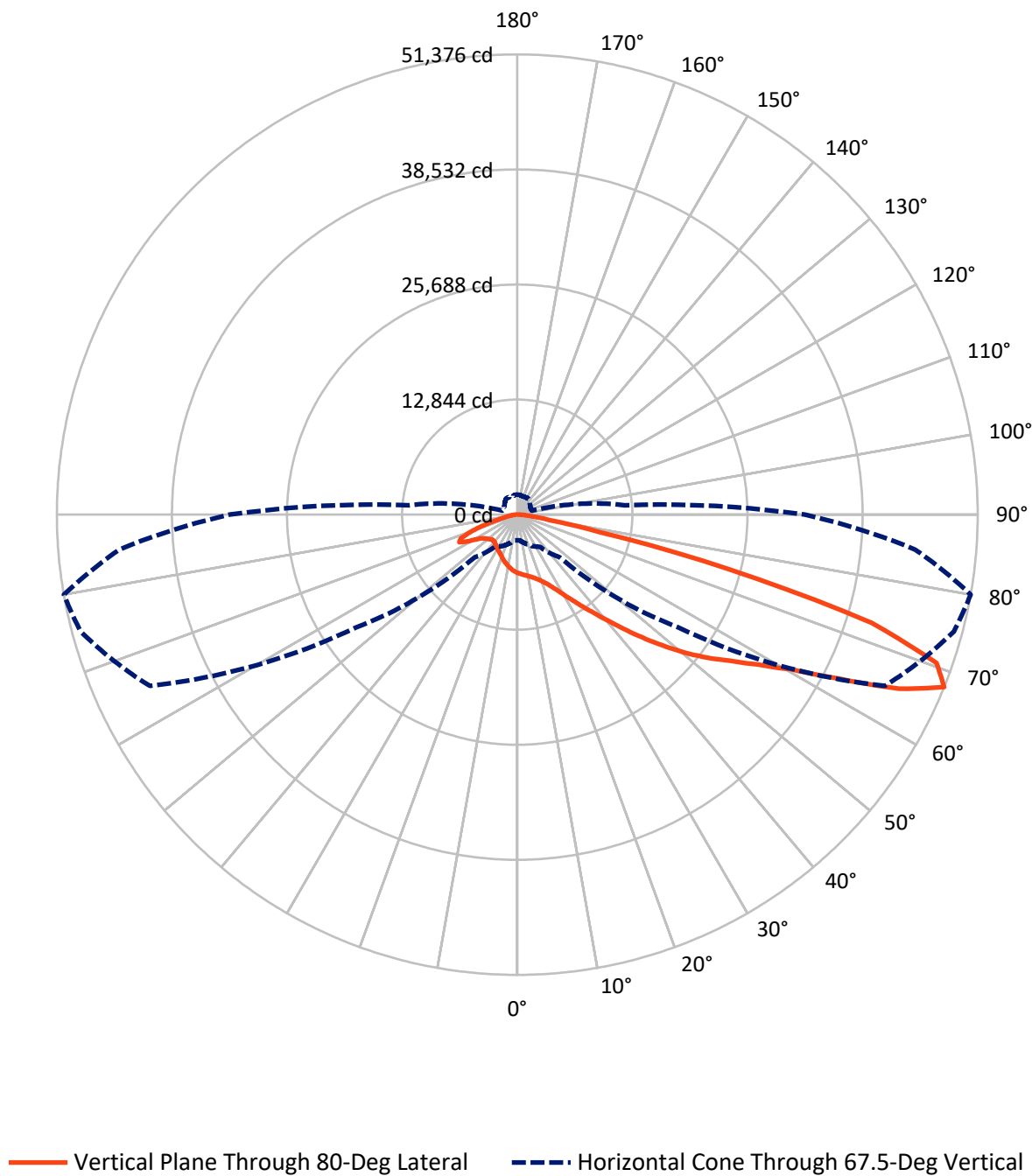


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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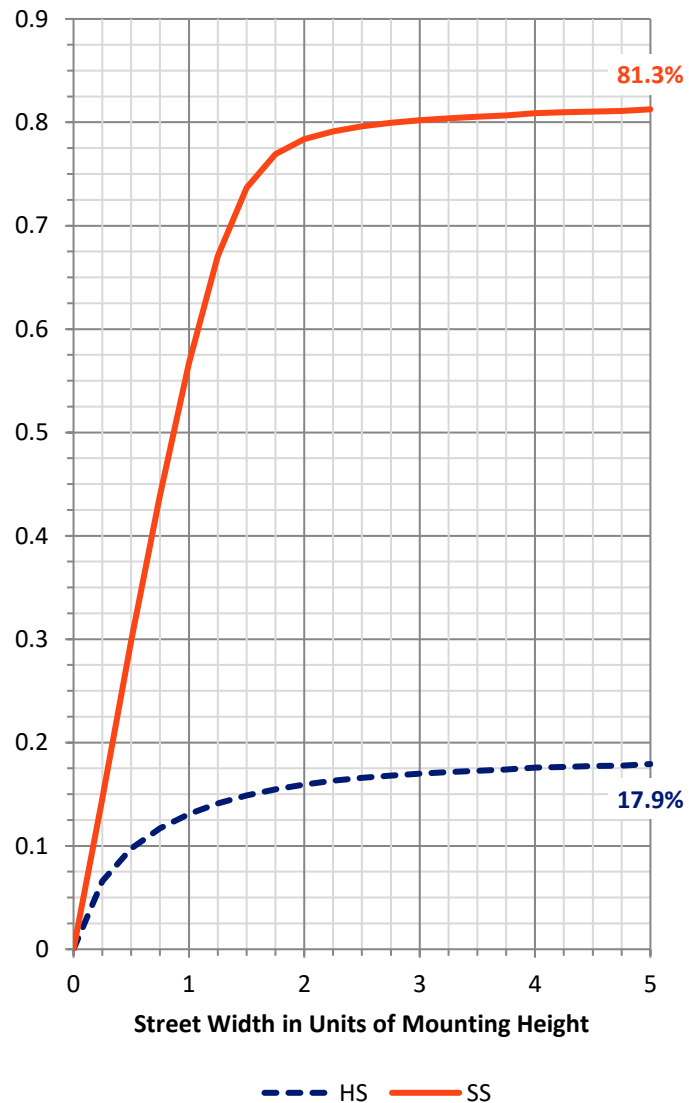
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8621.4	0.0	8621.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	38192.6	0.0	38192.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	46814.0	0.0	46814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.0	1.3
10°-20°	1728.3	3.7
20°-30°	2860.7	6.1
30°-40°	4679.3	10.0
40°-50°	7555.2	16.1
50°-60°	10907.6	23.3
60°-70°	12037.2	25.7
70°-80°	5548.4	11.9
80°-90°	897.4	1.9
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°	46814.0	100.0
0°-180°	46814.0	100.0

Coefficient of Utilization



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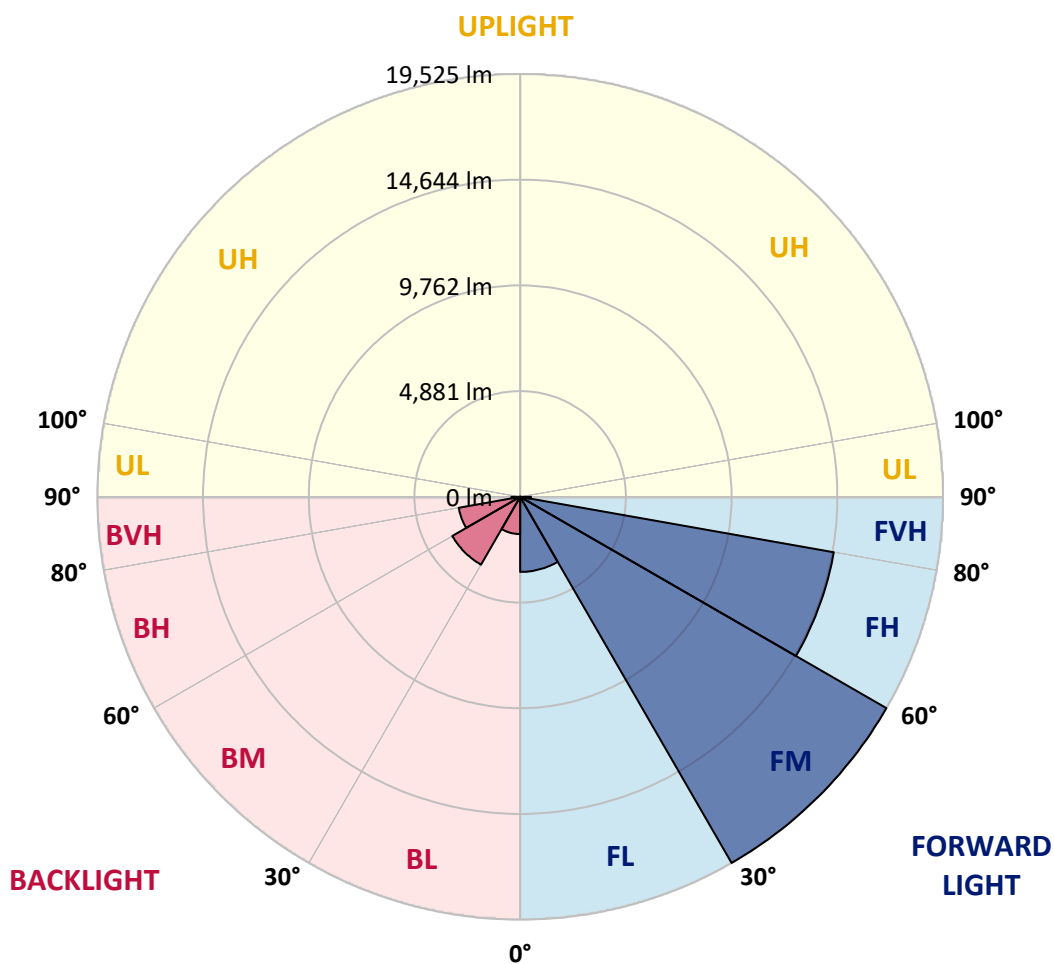
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3468.8	7.4			
FM	(30°-60°)	19524.9	41.7			
FH	(60°-80°)	14705.5	31.4			G5
FVH	(80°-90°)	493.4	1.1			G3/500
BL	(0°-30°)	1720.1	3.7	B3/2500		
BM	(30°-60°)	3617.2	7.7	B3/5000		
BH	(60°-80°)	2880.0	6.2	B4/5000		G4/5000
BVH	(80°-90°)	404.0	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8
2.5°	7114.6	7073.1	7080.0	7068.5	7033.9	6974.0	6909.5	6791.9	6669.8	6605.2	6554.5
5°	7709.2	7697.7	7681.5	7644.6	7557.1	7432.6	7278.2	7070.8	6847.2	6729.7	6616.8
7.5°	8154.0	8147.1	8126.3	8103.3	8018.0	7868.2	7635.4	7340.4	7015.5	6854.1	6679.0
10°	8190.9	8202.4	8218.5	8280.7	8292.3	8211.6	7974.2	7617.0	7190.6	6983.2	6759.6
12.5°	7877.4	7902.8	7965.0	8124.0	8292.3	8391.4	8269.2	7907.4	7395.7	7144.5	6861.1
15°	7462.6	7476.4	7552.5	7771.4	8073.3	8379.8	8495.1	8227.7	7660.8	7352.0	7013.2
17.5°	7285.1	7292.0	7345.0	7490.2	7771.4	8209.3	8621.8	8575.7	7985.7	7610.1	7199.8
20°	7195.2	7211.4	7287.4	7430.3	7607.8	7990.3	8640.3	8951.4	8372.9	7932.7	7434.9
22.5°	7451.1	7444.1	7471.8	7543.2	7693.0	7923.5	8626.4	9338.6	8866.1	8347.6	7741.4
25°	8048.0	8073.3	8024.9	7944.3	7992.7	8154.0	8700.2	9758.0	9483.8	8880.0	8142.5
27.5°	8898.4	8873.0	8801.6	8612.6	8513.5	8582.7	8944.5	10209.8	10251.2	9580.6	8672.5
30°	9746.5	9725.8	9656.6	9426.2	9223.4	9165.7	9419.3	10728.3	11166.2	10421.8	9322.5
32.5°	10626.9	10603.9	10539.3	10308.9	10064.6	9930.9	10094.5	11327.5	12244.8	11426.6	10087.6
35°	11712.4	11668.6	11532.7	11212.3	10972.6	10868.9	10945.0	12081.2	13489.3	12615.9	11016.4
37.5°	12733.4	12800.2	12661.9	12219.4	11908.3	11871.4	11956.7	13000.7	14830.7	13945.7	12083.5
40°	13759.0	13770.5	13646.1	13284.2	12963.9	12903.9	13118.3	14116.2	16414.0	15535.9	13381.0
42.5°	14819.1	14842.2	14632.5	14298.3	14063.2	14074.7	14319.0	15423.0	18230.1	17409.6	14874.4
45°	16075.2	16109.8	15879.3	15441.4	15227.1	15658.0	15556.6	16888.7	20221.3	19539.1	16589.1
47.5°	17388.9	17441.9	17266.7	16856.5	16589.1	17181.4	16794.3	18513.5	22364.7	21823.1	18472.1
50°	18105.6	18181.7	18352.2	18322.3	18264.6	18165.5	18174.8	20255.9	24574.9	24201.5	20408.0
52.5°	17720.7	17718.4	18340.7	19096.6	19903.3	19963.2	19857.2	22092.7	26639.9	26526.9	22231.0
55°	15960.0	16079.8	17022.4	18485.9	20689.2	22065.1	22378.5	24196.9	28668.0	28799.4	24081.7
57.5°	13028.4	13127.5	14399.7	16439.3	19629.0	23314.2	25964.6	27255.2	30935.8	31548.9	26545.4
60°	8836.2	8956.0	10304.3	12754.1	16775.8	22618.2	29377.8	32712.7	33650.7	35045.1	30002.4
62.5°	5192.5	5300.8	6400.1	8045.7	11811.5	19384.7	30875.9	40477.2	37962.8	40320.5	35275.5
65°	3574.6	3648.3	4183.0	5008.1	6787.3	13056.1	29018.3	45837.9	44598.0	46856.6	41389.9
67.5°	2876.2	2867.0	3291.1	3853.4	4369.7	6732.0	21942.9	45231.8	50433.5	51376.1	44563.4
70°	2369.2	2360.0	2648.1	3113.6	3491.6	3791.2	11952.1	38170.2	49244.2	49626.8	41641.1
72.5°	1982.0	1991.2	2175.6	2521.3	2864.7	2855.5	5252.4	26851.9	38739.5	41385.3	33194.4
75°	1673.2	1677.8	1800.0	2044.3	2325.4	2300.1	2848.6	14547.2	22519.1	24360.5	18400.6
77.5°	1424.3	1428.9	1507.3	1643.2	1843.7	1834.5	2078.8	6284.9	9393.9	9278.7	6294.1
80°	1269.9	1269.9	1306.8	1332.1	1442.7	1401.2	1541.8	3019.1	3971.0	3666.8	2512.1
82.5°	995.6	1000.2	1226.1	1216.9	1136.2	1083.2	1083.2	1779.2	2104.2	1945.2	1470.4
85°	560.0	557.7	790.5	954.1	1000.2	762.9	755.9	995.6	1145.4	1009.5	712.1
87.5°	239.7	244.3	366.4	424.1	567.0	474.8	467.9	513.9	583.1	504.7	329.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8	6503.8
2.5°	6506.1	6446.2	6314.8	6151.2	6003.7	5906.9	5819.3	5692.6	5699.5	5611.9	5547.4
5°	6501.5	6377.1	6072.8	5711.0	5363.0	5111.8	4922.8	4752.3	4710.8	4630.1	4581.7
7.5°	6506.1	6303.3	5791.7	5213.2	4782.2	4464.2	4302.9	4213.0	4192.2	4164.6	4166.9
10°	6522.3	6236.5	5482.8	4747.7	4295.9	4086.2	4047.0	4074.7	4107.0	4116.2	4118.5
12.5°	6559.1	6176.6	5144.1	4332.8	3991.7	3927.2	3994.0	4088.5	4150.7	4180.7	4178.4
15°	6642.1	6130.5	4819.1	4007.9	3823.5	3858.0	3982.5	4116.2	4206.1	4247.5	4249.8
17.5°	6732.0	6063.6	4484.9	3758.9	3699.0	3786.6	3941.0	4097.7	4208.4	4254.5	4263.7
20°	6849.5	5980.7	4134.6	3572.3	3581.5	3680.6	3825.8	3982.5	4104.6	4143.8	4162.3
22.5°	7003.9	5890.8	3828.1	3420.2	3447.8	3523.9	3636.8	3772.8	3878.8	3897.2	3913.4
25°	7211.4	5794.0	3583.8	3281.9	3293.4	3337.2	3413.2	3493.9	3567.7	3546.9	3563.0
27.5°	7490.2	5711.0	3401.7	3155.1	3134.4	3143.6	3182.8	3208.1	3247.3	3189.7	3196.6
30°	7817.5	5621.1	3261.1	3044.5	2986.9	2970.7	2980.0	2993.8	3023.7	2945.4	2933.9
32.5°	8197.8	5512.8	3129.8	2947.7	2867.0	2834.8	2839.4	2876.2	2991.5	2943.1	2917.7
35°	8640.3	5390.7	2991.5	2841.7	2786.4	2740.3	2735.7	2850.9	3194.3	3164.3	3141.3
37.5°	9158.8	5268.5	2853.2	2721.8	2726.4	2675.7	2659.6	2791.0	3233.5	3115.9	3099.8
40°	9818.0	5204.0	2735.7	2595.1	2652.7	2645.8	2613.5	2680.4	2975.4	2761.0	2733.4
42.5°	10633.8	5213.2	2648.1	2459.1	2565.1	2638.9	2588.2	2590.5	2696.5	2535.2	2509.8
45°	11641.0	5321.5	2585.9	2350.8	2466.0	2632.0	2578.9	2542.1	2551.3	2466.0	2452.2
47.5°	12816.4	5545.1	2542.1	2260.9	2371.5	2606.6	2576.6	2528.2	2507.5	2461.4	2449.9
50°	14123.1	5870.0	2509.8	2175.6	2286.2	2565.1	2578.9	2514.4	2491.4	2472.9	2466.0
52.5°	15406.8	6241.1	2461.4	2101.9	2219.4	2514.4	2585.9	2500.6	2475.2	2461.4	2454.5
55°	16838.0	6704.3	2387.7	2039.6	2164.1	2449.9	2585.9	2479.8	2452.2	2454.5	2452.2
57.5°	18771.7	7453.4	2300.1	1986.6	2097.3	2371.5	2542.1	2456.8	2422.2	2424.5	2426.8
60°	21793.1	8773.9	2194.1	1933.6	2014.3	2279.3	2482.1	2406.1	2371.5	2380.7	2383.0
62.5°	26236.6	10712.2	2055.8	1855.3	1926.7	2180.2	2399.2	2341.6	2307.0	2330.0	2330.0
65°	30855.1	12422.3	1885.2	1756.2	1834.5	2071.9	2295.5	2260.9	2226.3	2279.3	2277.0
67.5°	32097.4	12039.7	1714.7	1647.9	1742.3	1952.1	2171.0	2152.6	2134.1	2226.3	2221.7
70°	28513.6	9665.9	1558.0	1537.2	1640.9	1823.0	2037.3	2037.3	2025.8	2095.0	2078.8
72.5°	21724.0	6854.1	1408.2	1419.7	1525.7	1682.4	1892.1	1908.3	1889.8	1924.4	1910.6
75°	11629.4	3922.6	1258.4	1290.6	1382.8	1539.5	1730.8	1747.0	1735.4	1733.1	1740.0
77.5°	3865.0	1917.5	1101.6	1152.3	1233.0	1392.0	1562.6	1587.9	1560.3	1555.7	1553.4
80°	1721.6	1205.4	928.8	995.6	1067.1	1223.8	1385.1	1405.9	1375.9	1417.4	1364.4
82.5°	1106.2	792.8	744.4	818.2	887.3	1055.5	1207.7	1212.3	1184.6	1375.9	1173.1
85°	537.0	490.9	560.0	626.9	686.8	829.7	1000.2	1002.5	933.4	850.4	820.5
87.5°	267.3	285.8	373.4	433.3	463.2	569.3	728.3	714.5	684.5	622.3	573.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)