

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: P194327

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-AFL-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59888 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 575
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

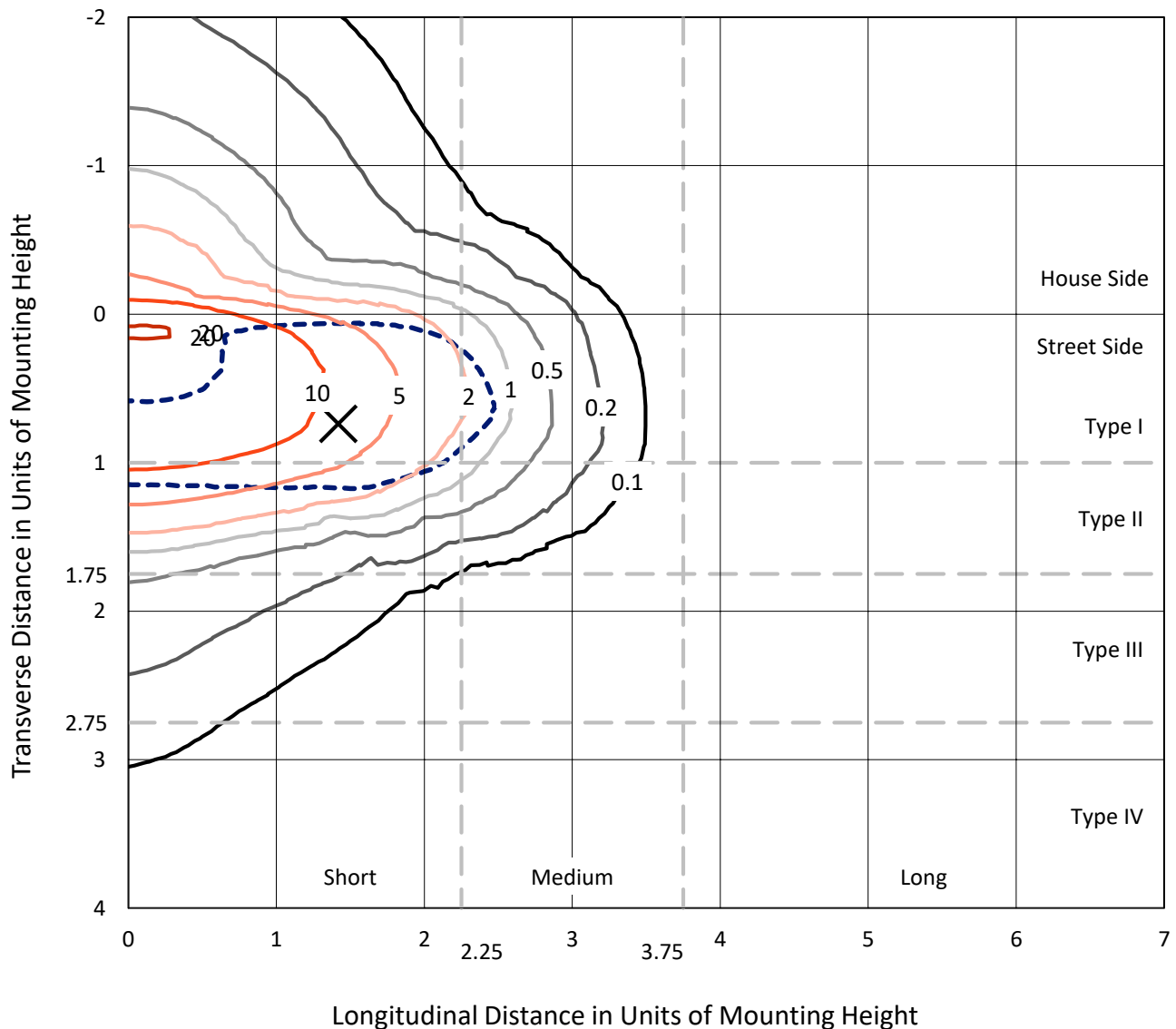


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

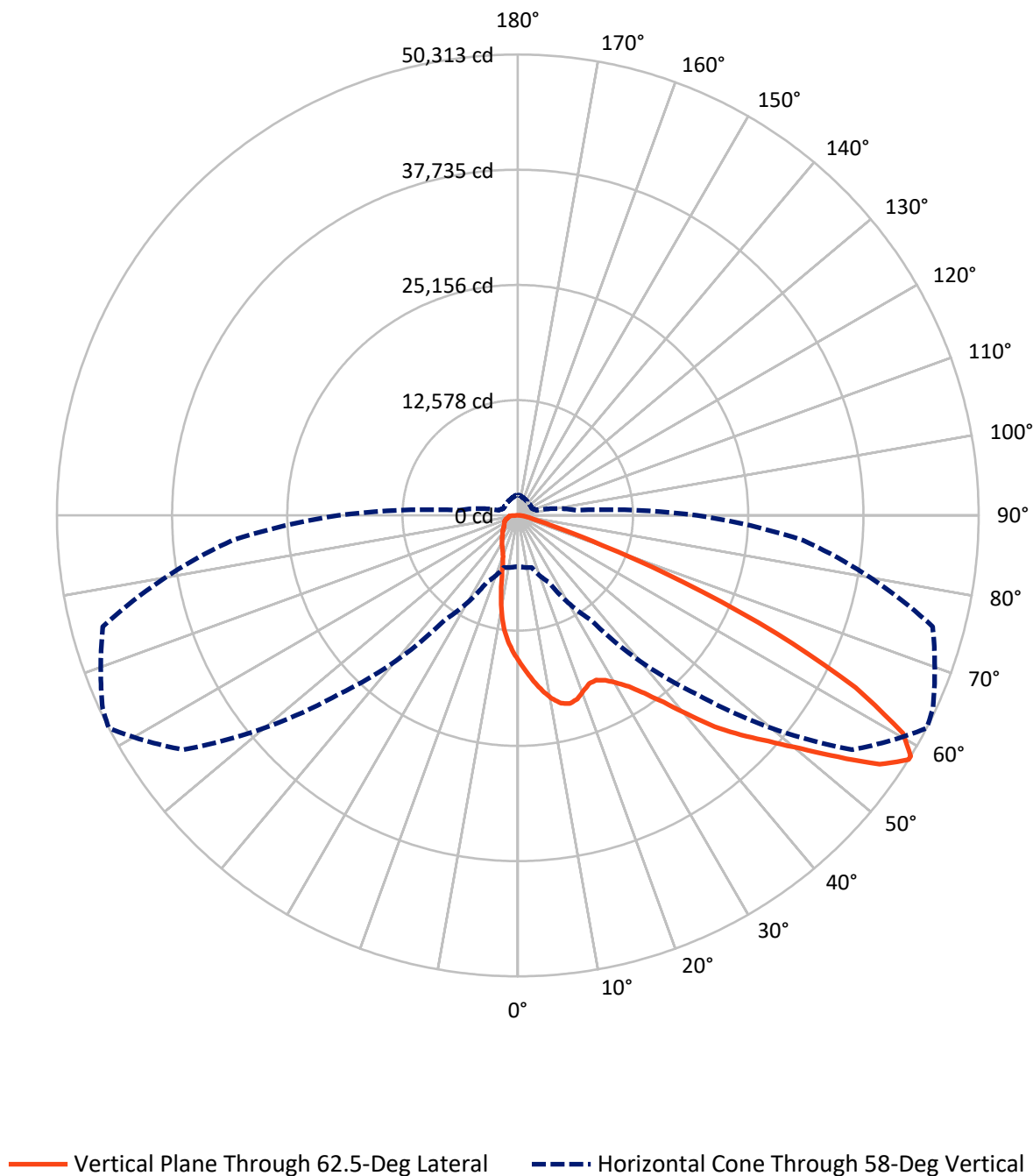


Based on 30 foot mounting height. Maximum calculated value = 21.5 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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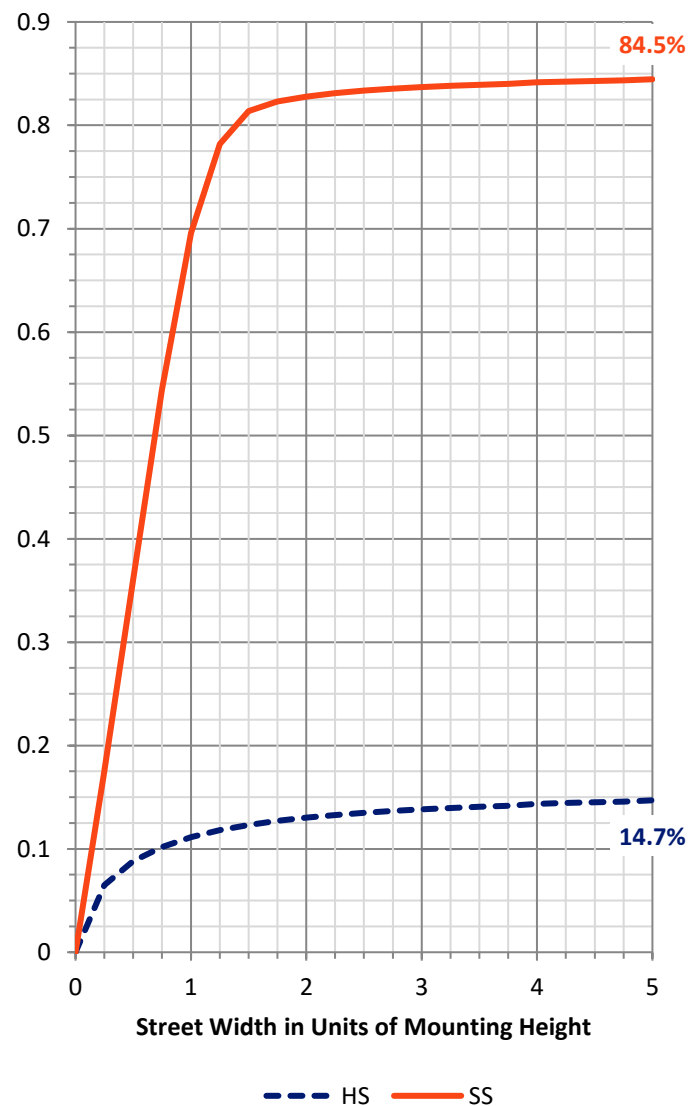
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9133.2	0.0	9133.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	50754.8	0.0	50754.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	59888.0	0.0	59888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1422.7	2.4
10°-20°	3636.7	6.1
20°-30°	5878.9	9.8
30°-40°	9332.7	15.6
40°-50°	13655.7	22.8
50°-60°	14282.8	23.8
60°-70°	8438.3	14.1
70°-80°	2377.1	4.0
80°-90°	863.0	1.4
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°	59888.0	100.0
0°-180°	59888.0	100.0

Coefficient of Utilization



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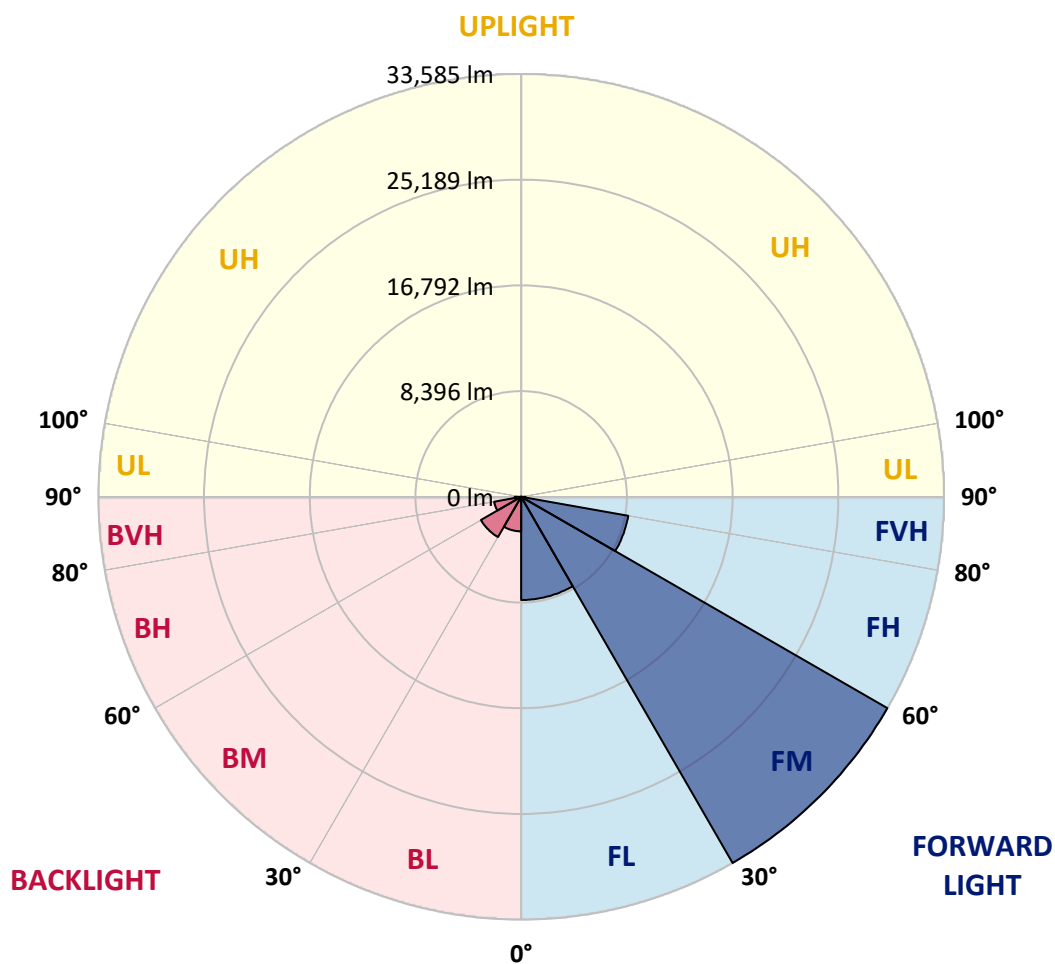
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8193.4	13.7			
FM	(30°-60°)	33584.9	56.1			
FH	(60°-80°)	8636.1	14.4			G4/12000
FVH	(80°-90°)	340.5	0.6			G3/500
BL	(0°-30°)	2745.0	4.6	B4/5000		
BM	(30°-60°)	3686.4	6.2	B3/5000		
BH	(60°-80°)	2179.3	3.6	B3/2500		G3/2500
BVH	(80°-90°)	522.5	0.9			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0
2.5°	18178.2	18031.5	17938.5	17856.7	17749.5	17521.1	17213.7	17019.1	16920.4	16584.8	16187.2
5°	19960.5	19830.7	19734.9	19624.9	19433.1	19075.0	18578.6	18183.8	17989.2	17318.1	16522.8
7.5°	19543.1	19596.7	19763.1	20053.5	20301.7	20253.8	19811.0	19309.0	19052.4	18119.0	16912.0
10°	17027.6	17120.7	17408.3	18087.9	19187.8	20315.8	20659.8	20313.0	20053.5	18911.4	17312.4
12.5°	16522.8	16520.0	16542.5	16723.0	17377.3	18965.0	20688.1	21037.7	20882.6	19667.2	17721.3
15°	16728.7	16734.3	16717.4	16793.5	16996.6	17625.5	19825.1	21316.9	21426.9	20428.6	18144.3
17.5°	17270.1	17256.0	17191.2	17191.2	17264.5	17509.8	18809.9	21057.5	21565.1	21102.6	18516.6
20°	18178.2	18113.3	17941.3	17783.4	17704.4	17837.0	18392.5	20459.6	21325.4	21692.0	18824.0
22.5°	19278.0	19227.3	18948.1	18609.7	18336.1	18333.3	18606.8	19937.9	20910.8	22247.6	19083.4
25°	20699.3	20617.5	20203.0	19661.5	19182.1	18998.8	19075.0	19912.5	20685.2	22851.0	19314.7
27.5°	22368.8	22219.3	21728.7	20947.5	20242.5	19873.0	19763.1	20372.2	20891.1	23598.4	19636.2
30°	24393.6	24221.6	23592.7	22574.7	21579.2	20972.9	20738.8	21187.2	21573.6	24509.2	20152.2
32.5°	26697.6	26449.5	25721.9	24599.5	23291.0	22366.0	21985.3	22264.5	22571.9	25606.3	20798.0
35°	29881.5	29585.4	28533.5	26985.3	25507.6	24235.7	23626.6	23829.6	24128.5	27241.9	21731.5
37.5°	32052.9	31920.4	31221.0	29765.9	28158.4	26694.8	25752.9	25871.3	26040.5	29286.5	22927.2
40°	32033.2	32086.8	32100.9	32115.0	31020.8	29619.2	28606.8	28482.7	28448.9	31531.2	24286.5
42.5°	30428.6	30648.5	31359.2	32800.3	33465.8	32822.8	31895.0	31536.9	31359.2	34176.5	25727.5
45°	27972.3	28090.7	29421.8	32236.2	34717.9	35995.4	35293.2	34165.2	33843.7	36607.4	26923.2
47.5°	26706.1	26835.8	27673.4	30741.6	34703.8	38558.8	38964.9	36816.0	36240.7	38722.4	27955.4
50°	23691.4	23962.2	25016.9	28141.5	33437.6	39737.6	42803.1	39974.5	38784.5	40781.1	28990.3
52.5°	18155.6	18573.0	19754.6	23866.3	30225.5	39153.9	45874.1	43804.2	42123.4	42913.0	29878.7
55°	11452.3	11762.5	12755.2	16855.6	24179.3	36116.7	47038.8	47946.9	46452.2	44932.2	30648.5
57.5°	6226.7	6364.9	6737.2	9306.2	15727.5	29402.1	45341.1	50304.4	49684.0	46646.8	31229.5
58°	5572.5	5665.5	5896.8	8065.4	13948.1	27566.2	44588.2	50312.9	50002.7	46897.8	31274.6
60°	4134.2	4086.3	3880.4	4602.4	7763.7	19043.9	40036.6	48299.4	49210.3	47205.2	31054.6
62.5°	3632.3	3516.6	3096.4	3048.5	3776.1	8773.2	30634.4	41373.3	43525.0	45451.1	29717.9
65°	3412.3	3288.2	2746.8	2571.9	2724.2	3711.2	18045.6	31029.3	33728.1	40132.4	26300.0
67.5°	3248.7	3088.0	2524.0	2284.3	2295.5	2453.5	7233.5	19543.1	22580.3	30470.9	20456.8
70°	3090.8	2916.0	2335.0	2058.7	1993.8	1940.2	2876.5	9782.8	12538.0	19247.0	13042.8
72.5°	2921.6	2749.6	2168.6	1881.0	1754.1	1576.4	1878.2	4001.7	5589.4	9106.0	5916.5
75°	2676.2	2521.1	2002.3	1723.1	1542.6	1305.7	1418.5	2089.7	2507.0	3626.6	2851.1
77.5°	2374.5	2247.6	1816.1	1593.3	1367.7	1060.3	1091.4	1449.5	1607.4	2075.6	1694.9
80°	1706.1	1751.3	1615.9	1432.6	1218.3	860.1	837.6	1057.5	1142.1	1333.9	1102.6
82.5°	1198.5	1223.9	1336.7	1170.3	1006.8	676.8	617.6	744.5	795.3	877.0	595.0
85°	826.3	798.1	916.5	815.0	727.6	451.2	423.0	504.8	535.8	544.3	307.4
87.5°	496.3	496.3	530.2	437.1	392.0	234.1	228.4	287.6	307.4	293.3	169.2
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°	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0	15908.0
2.5°	15950.3	15750.1	15324.3	14983.0	14551.6	14103.2	13852.2	13584.3	13401.0	13268.4	13479.9
5°	16071.6	15662.7	14782.8	13948.1	13025.9	12067.1	11339.5	10662.7	10191.7	9898.5	10174.8
7.5°	16263.4	15634.5	14232.9	12805.9	11150.6	9554.4	8127.4	7233.5	6711.8	6455.1	6615.9
10°	16483.3	15589.4	13587.1	11257.7	8888.9	6878.2	5812.2	5451.2	5332.8	5284.8	5307.4
12.5°	16666.6	15493.5	12794.7	9385.2	6675.1	5431.5	5124.1	5115.6	5141.0	5146.6	5155.1
15°	16796.4	15352.5	11618.7	7433.7	5338.4	4949.2	4932.3	4983.1	5031.0	5050.7	5062.0
17.5°	16883.8	15062.0	10290.4	5877.0	4782.8	4715.2	4754.6	4819.5	4870.3	4884.4	4895.6
20°	16875.3	14636.2	8708.4	4901.3	4481.1	4481.1	4548.8	4599.5	4602.4	4585.4	4593.9
22.5°	16787.9	14052.4	7174.3	4382.4	4213.2	4261.1	4328.8	4280.9	4083.5	3953.7	3962.2
25°	16641.2	13355.9	5860.1	4052.4	3965.0	4049.6	4029.9	3668.9	3386.9	3260.0	3260.0
27.5°	16511.5	12532.4	4850.5	3764.8	3716.9	3821.2	3471.5	3144.4	3025.9	2966.7	2947.0
30°	16418.5	11644.1	4176.5	3488.4	3482.8	3406.6	3011.8	2921.6	2901.9	2853.9	2837.0
32.5°	16441.0	10744.5	3745.1	3245.9	3265.6	2916.0	2791.9	2811.6	2794.7	2743.9	2721.4
35°	16627.1	9890.0	3463.0	3025.9	2966.7	2633.9	2662.1	2698.8	2693.2	2622.7	2600.1
37.5°	16959.9	9080.6	3276.9	2842.6	2588.8	2492.9	2538.1	2594.5	2580.4	2532.4	2515.5
40°	17309.6	8319.2	3124.6	2698.8	2366.0	2397.1	2436.5	2467.6	2481.7	2495.8	2484.5
42.5°	17650.8	7524.0	2938.5	2552.2	2273.0	2306.8	2323.7	2354.8	2430.9	2484.5	2481.7
45°	17853.9	6776.6	2746.8	2343.5	2199.7	2219.4	2208.1	2270.2	2363.2	2450.6	2453.5
47.5°	18079.5	6195.7	2594.5	2151.7	2129.2	2143.3	2109.4	2171.5	2256.1	2363.2	2374.5
50°	18353.0	5848.8	2473.2	1999.4	2033.3	2033.3	2024.8	2081.2	2199.7	2323.7	2346.3
52.5°	18663.2	5781.1	2371.7	1889.4	1937.4	1934.6	1943.0	2027.6	2157.4	2278.6	2298.4
55°	19041.1	5964.5	2261.7	1807.7	1844.3	1855.6	1883.8	1979.7	2089.7	2227.9	2236.3
57.5°	19481.1	6336.7	2174.3	1742.8	1759.7	1796.4	1841.5	1928.9	2047.4	2199.7	2208.1
58°	19554.4	6415.7	2160.2	1737.2	1742.8	1785.1	1835.9	1920.5	2038.9	2205.3	2213.8
60°	19557.2	6677.9	2129.2	1711.8	1677.9	1748.4	1804.8	1889.4	2024.8	2225.0	2244.8
62.5°	18863.5	6675.1	2106.6	1675.1	1610.3	1697.7	1762.5	1861.2	2010.7	2273.0	2312.5
65°	16610.2	6066.0	1999.4	1618.7	1556.7	1652.6	1725.9	1841.5	2050.2	2481.7	2507.0
67.5°	12992.1	4971.8	1799.2	1539.8	1486.2	1607.4	1703.3	1838.7	2092.5	2529.6	2546.5
70°	8589.9	3719.7	1579.2	1449.5	1412.9	1553.9	1714.6	1934.6	2044.6	2428.1	2383.0
72.5°	4458.5	2611.4	1401.6	1336.7	1328.3	1505.9	1878.2	1923.3	1996.6	2284.3	2227.9
75°	2340.7	1813.3	1246.5	1212.6	1226.7	1494.6	2216.6	1872.5	1934.6	2185.6	2292.7
77.5°	1432.6	1463.6	1113.9	1099.8	1128.0	1460.8	2213.8	1807.7	1844.3	2010.7	2129.2
80°	958.8	1187.3	1012.4	1015.2	1035.0	1336.7	1988.2	1706.1	1734.3	1900.7	2022.0
82.5°	606.3	702.2	919.3	967.3	941.9	1102.6	1689.2	1553.9	1593.3	2174.3	2298.4
85°	307.4	439.9	798.1	930.6	848.8	772.7	1370.6	1362.1	1381.8	1568.0	1638.5
87.5°	141.0	242.5	623.2	812.2	640.2	482.2	995.5	1009.6	1088.5	1113.9	1113.9
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)