

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: P194907

Luminaire Tested: **GLEON-AF-09-LED-E1-T4W-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42694 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 374
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



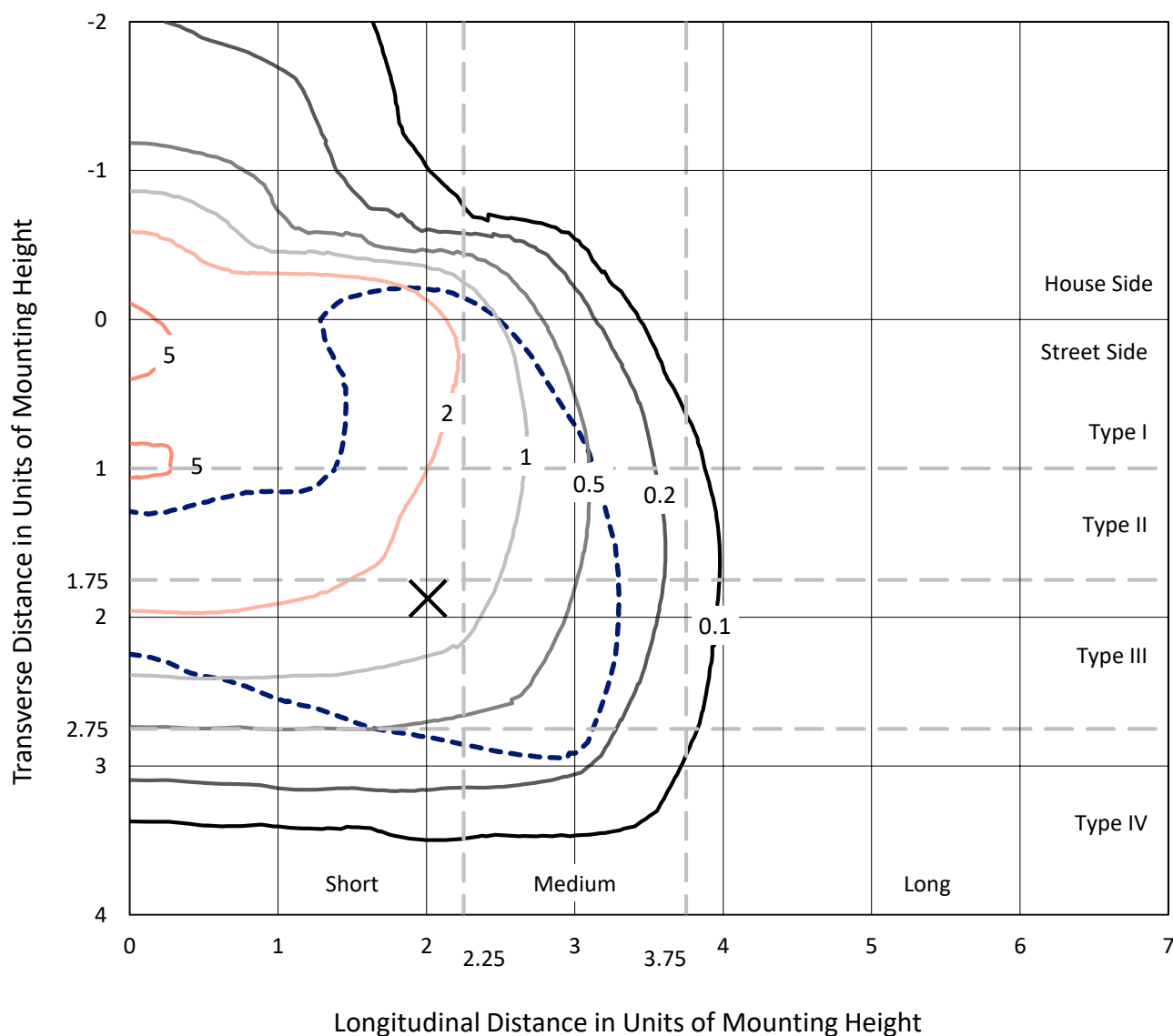
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

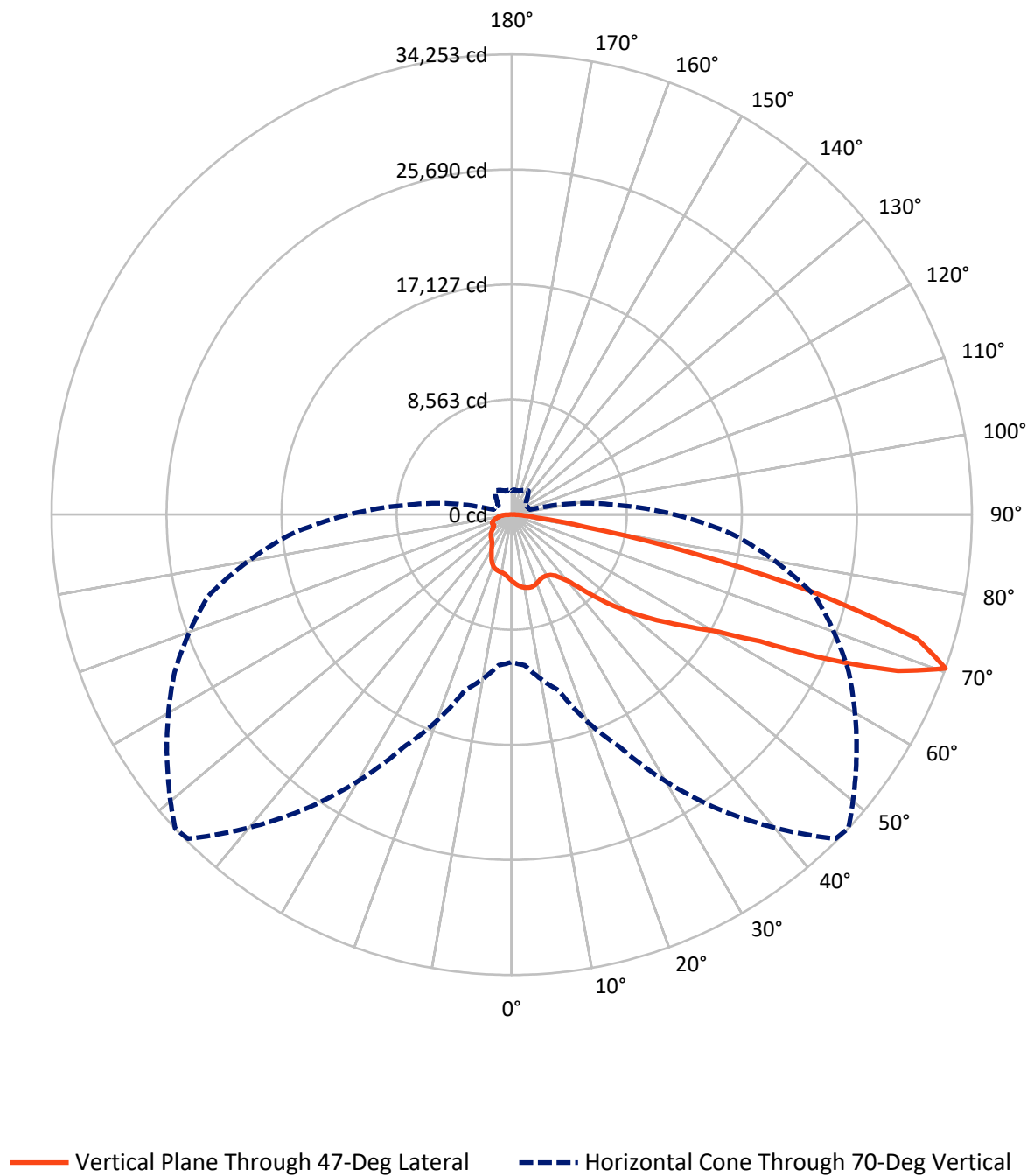


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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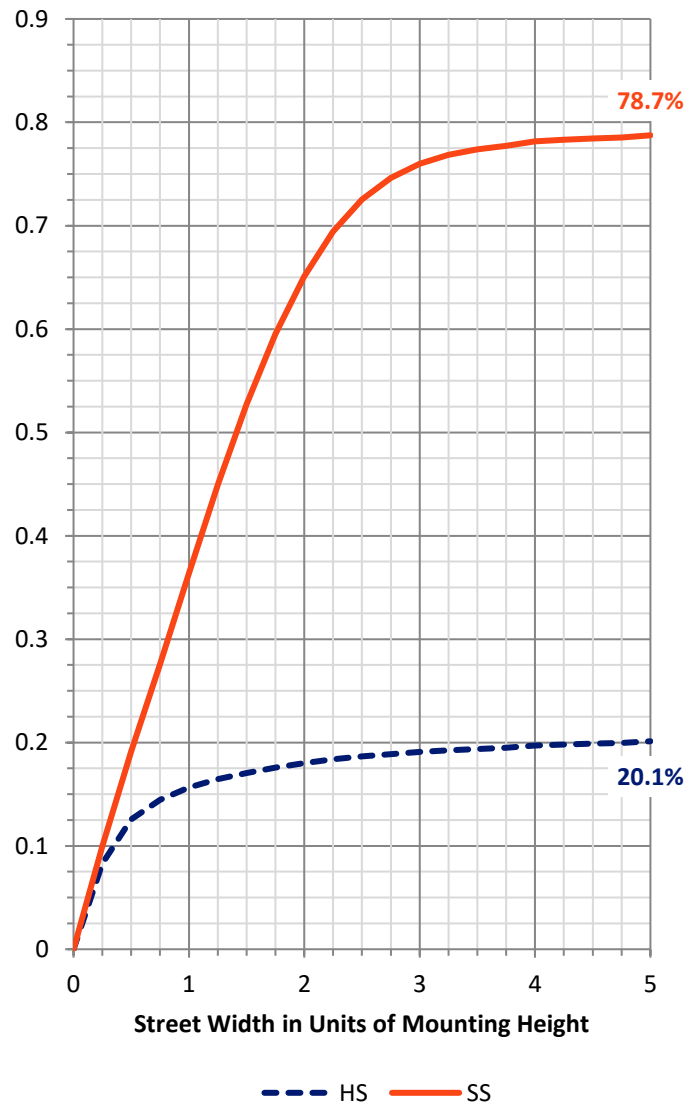
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8906.8	0.0	8906.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	33787.2	0.0	33787.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	42694.0	0.0	42694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.7	1.1
10°-20°	1392.5	3.3
20°-30°	2056.4	4.8
30°-40°	2988.9	7.0
40°-50°	5379.0	12.6
50°-60°	9318.6	21.8
60°-70°	13300.3	31.2
70°-80°	6827.7	16.0
80°-90°	955.9	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°	42694.0	100.0
0°-180°	42694.0	100.0

Coefficient of Utilization



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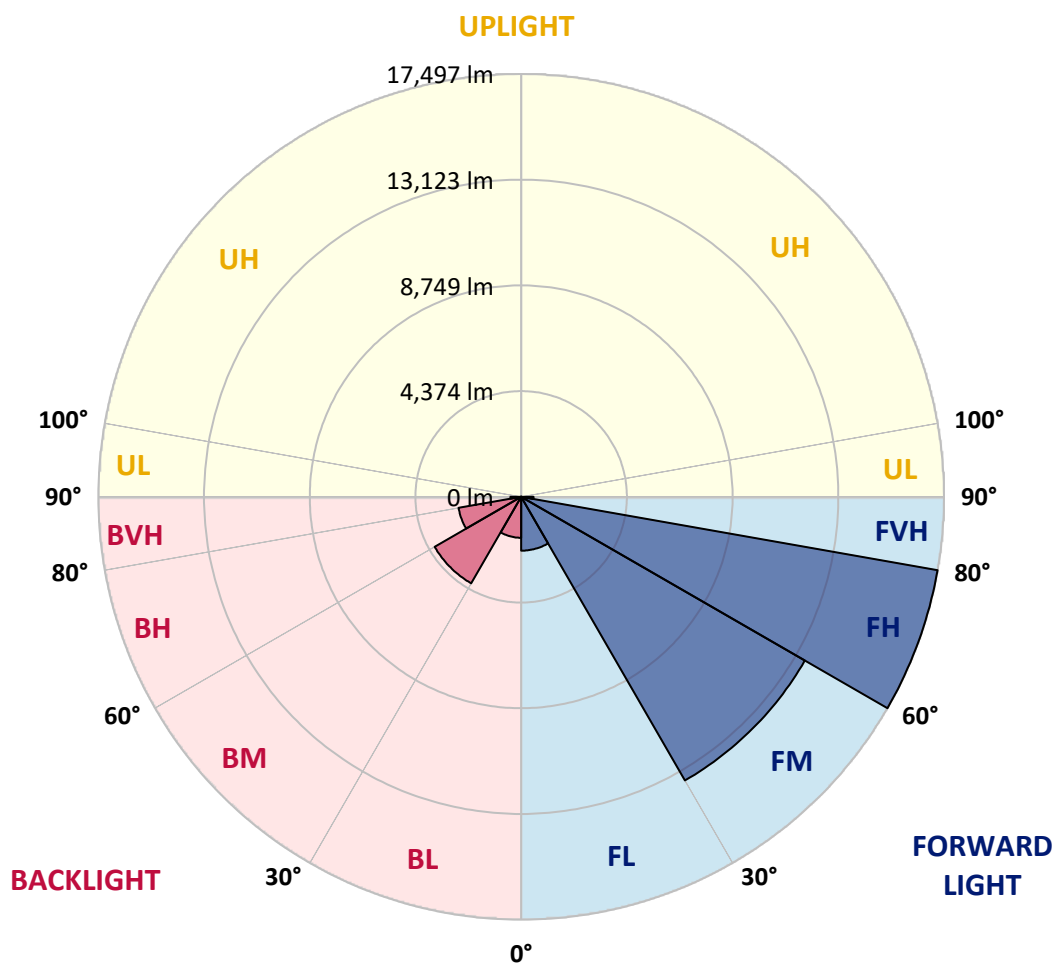
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2227.7	5.2			
FM	(30°-60°)	13552.3	31.7			
FH	(60°-80°)	17497.2	41.0			G5
FVH	(80°-90°)	510.1	1.2			G4/750
BL	(0°-30°)	1695.9	4.0	B3/2500		
BM	(30°-60°)	4134.3	9.7	B3/5000		
BH	(60°-80°)	2630.8	6.2	B4/5000		G4/5000
BVH	(80°-90°)	445.8	1.0			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8
2.5°	5244.6	5234.2	5230.1	5221.8	5211.4	5159.5	5149.1	5111.7	5059.8	5005.8	4949.7
5°	5589.4	5587.3	5564.5	5523.0	5456.5	5342.2	5315.2	5223.9	5101.3	4982.9	4864.5
7.5°	5892.7	5874.0	5830.4	5747.3	5631.0	5475.2	5437.8	5311.1	5142.8	4980.8	4820.9
10°	6114.9	6104.5	6009.0	5894.7	5743.1	5570.7	5527.1	5385.9	5201.0	4995.4	4796.0
12.5°	6241.6	6220.9	6110.8	5973.7	5793.0	5624.7	5581.1	5437.8	5230.1	4995.4	4760.7
15°	6233.3	6218.8	6108.7	5959.1	5776.4	5628.9	5589.4	5446.1	5223.9	4974.6	4715.0
17.5°	6067.1	6073.4	5979.9	5832.4	5682.9	5570.7	5535.4	5402.5	5182.3	4933.1	4661.0
20°	5776.4	5805.4	5743.1	5612.3	5529.2	5452.3	5429.5	5317.3	5117.9	4872.8	4602.8
22.5°	5485.6	5512.6	5487.6	5377.6	5365.1	5319.4	5306.9	5225.9	5061.8	4835.4	4567.5
25°	5271.6	5296.6	5292.4	5196.9	5234.2	5232.2	5221.8	5182.3	5049.4	4835.4	4573.7
27.5°	5213.5	5221.8	5213.5	5126.2	5178.2	5219.7	5211.4	5205.2	5086.8	4895.7	4652.7
30°	5412.9	5400.4	5336.0	5159.5	5207.2	5265.4	5257.1	5261.2	5198.9	5053.5	4829.2
32.5°	6208.4	6152.3	5948.8	5452.3	5325.6	5356.8	5360.9	5429.5	5439.9	5296.6	5103.4
35°	7398.6	7336.2	7072.5	6237.5	5693.3	5585.3	5585.3	5689.1	5751.4	5645.5	5529.2
37.5°	8659.3	8590.8	8449.6	7325.9	6465.9	5982.0	5971.6	6044.3	6133.6	6158.5	6187.6
40°	10092.5	10019.8	10059.3	8547.2	7544.0	6669.5	6522.0	6470.1	6711.0	6871.0	7103.6
42.5°	11660.7	11627.5	11642.0	9907.7	8771.5	7697.7	7487.9	7219.9	7510.7	7795.3	8283.4
45°	13112.6	13141.7	13127.1	11363.7	10138.2	8952.2	8730.0	8210.7	8495.3	8983.4	9778.9
47.5°	14383.8	14263.3	14450.2	12954.7	11669.0	10356.3	10082.1	9386.3	9675.0	10277.4	11623.3
50°	15927.0	15910.4	15636.2	15077.5	13519.7	11766.7	11407.3	10601.4	11050.1	11887.1	13947.6
52.5°	17549.2	17248.1	16996.7	16728.8	15482.5	13212.3	12772.0	11812.3	12666.0	13719.1	16780.7
55°	17881.6	17746.6	18058.1	18508.8	17374.8	14714.0	14201.0	13330.7	14485.5	15812.8	20048.0
57.5°	18591.9	18589.9	19233.8	20037.6	19323.1	16307.1	15790.0	15164.8	16531.5	18211.8	23516.7
60°	19071.7	19206.7	20403.1	21963.0	21236.1	18147.4	17671.8	17281.3	18857.8	20893.3	26748.6
62.5°	19323.1	19505.8	21138.4	22744.0	23940.4	21211.1	20735.5	20172.6	21936.0	23834.5	28638.8
65°	18278.3	18637.6	21024.2	23419.1	26308.3	26177.4	25963.5	24974.8	25784.9	26158.7	27955.4
67.5°	15387.0	15754.6	18533.8	22789.7	27999.0	30967.2	31012.9	29324.2	28152.7	26358.1	23504.2
70°	10962.8	11251.5	13550.9	19107.0	26711.2	34097.3	34253.1	31328.6	27681.2	23375.4	16421.4
72.5°	5205.2	5381.7	7558.5	12435.5	21196.6	31241.3	31542.5	28769.6	23537.5	17306.2	8958.4
75°	1913.0	1967.0	2554.8	5290.3	12294.2	23039.0	23394.1	20623.3	15603.0	8615.7	3412.6
77.5°	1146.5	1181.9	1433.2	2232.9	4835.4	13168.7	13694.2	11216.2	6819.0	3207.0	1678.3
80°	801.8	826.7	1028.2	1389.6	2284.8	5018.2	5485.6	4577.9	2716.8	2029.3	1221.3
82.5°	542.1	554.6	722.8	938.8	1518.3	1792.5	1933.8	2035.5	1832.0	1510.0	774.8
85°	355.2	367.6	490.2	619.0	965.8	926.4	947.1	1198.5	1337.6	1026.1	430.0
87.5°	203.6	211.9	294.9	330.3	473.6	392.6	396.7	631.4	855.8	691.7	261.7
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°	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8	4953.8
2.5°	4935.1	4908.1	4847.9	4810.5	4775.2	4766.9	4752.4	4750.3	4748.2	4748.2	4742.0
5°	4825.1	4779.4	4685.9	4634.0	4590.3	4586.2	4584.1	4594.5	4598.7	4602.8	4596.6
7.5°	4754.4	4692.1	4575.8	4501.0	4449.1	4436.6	4457.4	4505.2	4536.3	4548.8	4542.6
10°	4710.8	4634.0	4499.0	4417.9	4374.3	4368.1	4395.1	4451.2	4515.6	4540.5	4538.4
12.5°	4661.0	4573.7	4430.4	4345.2	4320.3	4332.8	4368.1	4420.0	4486.5	4526.0	4528.0
15°	4611.1	4509.3	4361.9	4287.1	4276.7	4293.3	4326.6	4366.0	4417.9	4457.4	4461.6
17.5°	4550.9	4444.9	4297.5	4220.6	4212.3	4220.6	4222.7	4243.5	4276.7	4314.1	4324.5
20°	4486.5	4378.5	4224.8	4147.9	4110.5	4077.3	4039.9	4044.1	4054.5	4091.8	4100.2
22.5°	4440.8	4332.8	4168.7	4062.8	3963.1	3863.4	3788.6	3778.2	3782.4	3813.5	3823.9
25°	4444.9	4330.7	4154.2	3971.4	3753.3	3593.3	3493.6	3477.0	3475.0	3497.8	3512.3
27.5°	4526.0	4411.7	4208.2	3877.9	3524.8	3288.0	3182.1	3169.6	3153.0	3159.2	3175.9
30°	4706.7	4600.7	4339.0	3782.4	3277.6	2988.9	2878.8	2866.4	2843.5	2833.1	2845.6
32.5°	5001.6	4914.4	4530.1	3691.0	3030.5	2733.4	2621.3	2594.3	2579.7	2567.3	2577.7
35°	5491.8	5454.4	4785.6	3591.3	2812.4	2536.1	2434.3	2392.8	2372.0	2394.9	2411.5
37.5°	6260.3	6281.1	5120.0	3435.5	2644.1	2405.3	2320.1	2272.3	2241.2	2259.9	2278.6
40°	7348.7	7363.2	5489.7	3215.3	2498.7	2328.4	2237.0	2193.4	2149.8	2116.5	2114.5
42.5°	8777.7	8630.3	5853.2	2976.5	2330.5	2280.6	2178.9	2124.9	2058.4	1967.0	1948.3
45°	10472.6	9955.4	6129.5	2702.3	2141.5	2222.5	2114.5	2039.7	1935.8	1836.1	1825.8
47.5°	12425.1	11378.2	6264.5	2417.7	1964.9	2137.3	2035.5	1917.1	1786.3	1736.4	1730.2
50°	14809.6	13066.9	6328.9	2141.5	1811.2	2025.2	1921.3	1782.1	1672.0	1661.7	1655.4
52.5°	17524.3	15098.3	6349.6	1915.1	1684.5	1879.8	1827.8	1692.8	1605.6	1613.9	1613.9
55°	20365.8	17196.1	6067.1	1751.0	1568.2	1730.2	1765.5	1657.5	1584.8	1618.0	1630.5
57.5°	22974.6	19055.1	5178.2	1624.3	1458.1	1616.0	1742.7	1690.7	1640.9	1775.9	1784.2
60°	24976.9	20153.9	3867.5	1510.0	1377.1	1576.5	1802.9	1817.4	1829.9	2151.9	2195.5
62.5°	25396.4	19788.3	2658.7	1420.7	1339.7	1609.7	1913.0	1915.1	1900.5	2124.9	2151.9
65°	23471.0	17476.5	1933.8	1370.9	1308.6	1670.0	2006.5	1962.8	1867.3	2037.6	1987.8
67.5°	18639.7	13166.6	1609.7	1333.5	1262.9	1665.8	2106.2	2006.5	1848.6	1996.1	1915.1
70°	12099.0	7961.4	1433.2	1302.3	1208.9	1586.9	2164.3	2002.3	1794.6	1856.9	1761.4
72.5°	5903.1	3560.1	1314.8	1256.6	1152.8	1476.8	2162.2	1964.9	1738.5	1734.4	1682.4
75°	2309.7	1630.5	1206.8	1188.1	1057.2	1352.2	2104.1	1910.9	1672.0	1605.6	1586.9
77.5°	1352.2	1163.2	1069.7	1086.3	943.0	1227.6	2018.9	1817.4	1580.7	1501.7	1481.0
80°	984.5	870.3	911.8	938.8	805.9	1102.9	1904.7	1703.2	1478.9	1518.3	1489.3
82.5°	631.4	560.8	739.4	766.4	670.9	976.2	1780.1	1582.7	1335.6	1213.0	1183.9
85°	321.9	355.2	550.4	583.7	517.2	801.8	1628.4	1422.8	1173.5	1009.5	1026.1
87.5°	180.7	243.0	351.0	392.6	365.6	616.9	1321.0	1173.5	957.5	778.9	685.4
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)