

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: P194917

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194917
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52843 lumens
Efficiency: N/A
Efficacy: 105.5 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): 501
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



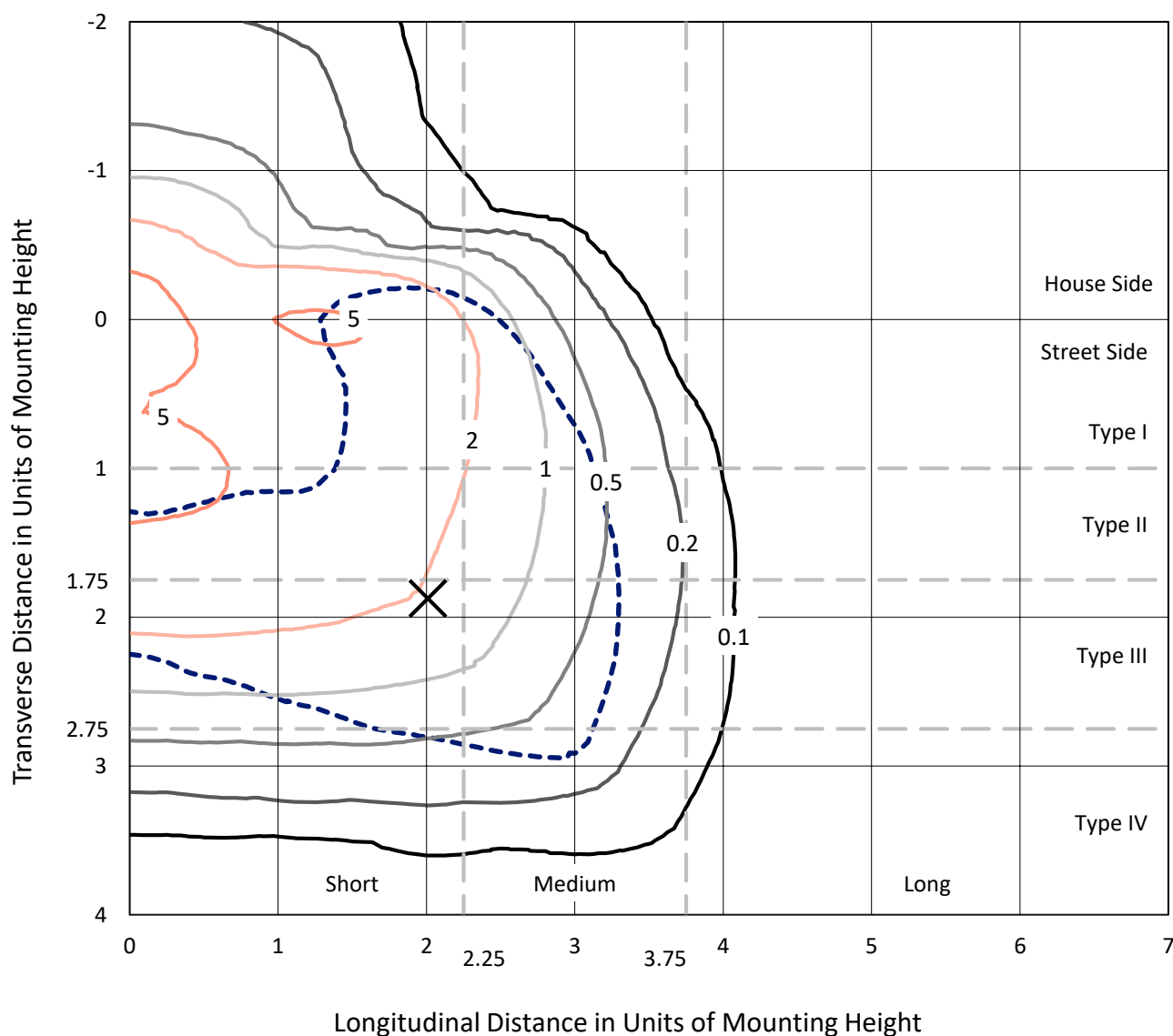
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

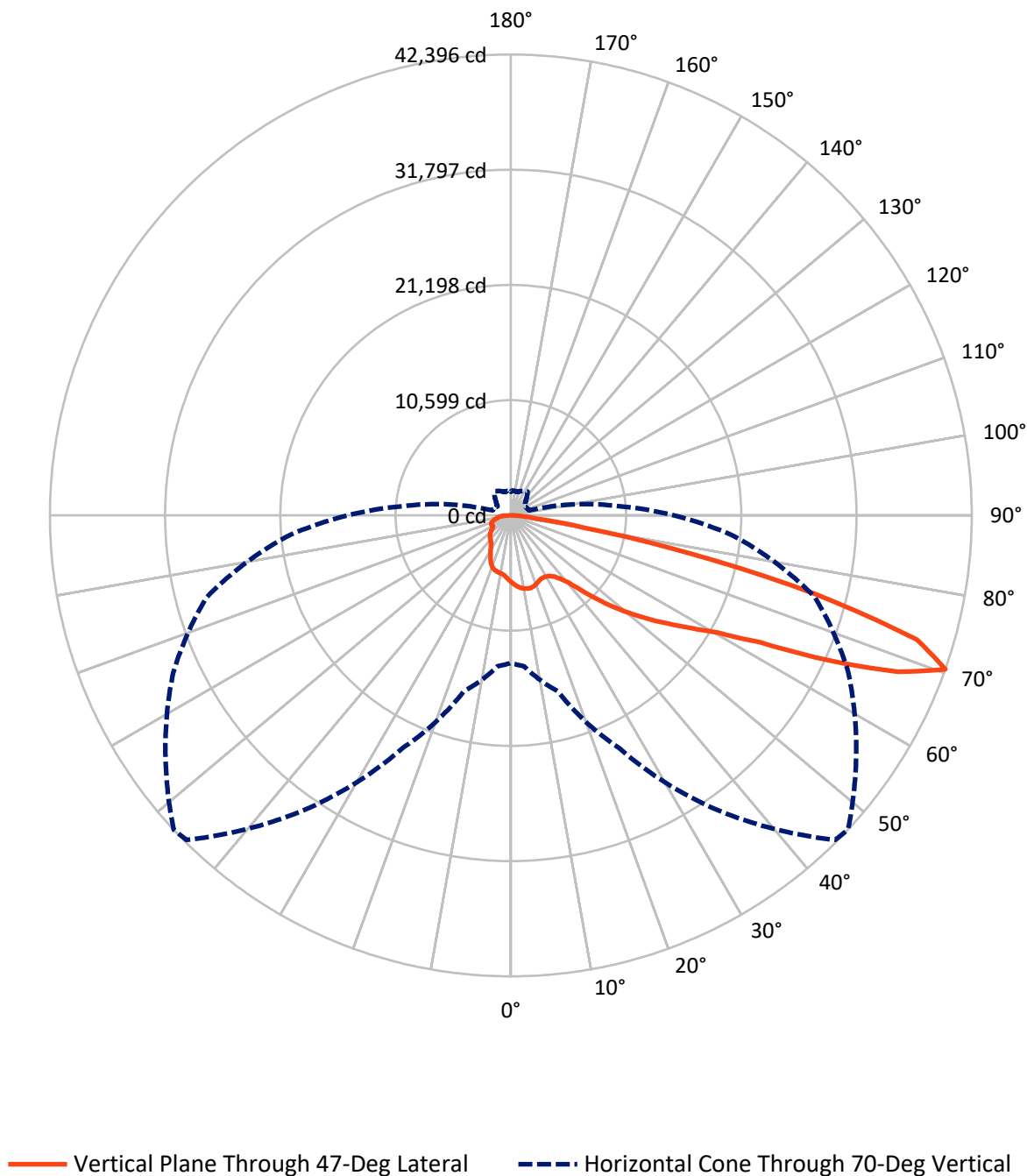


Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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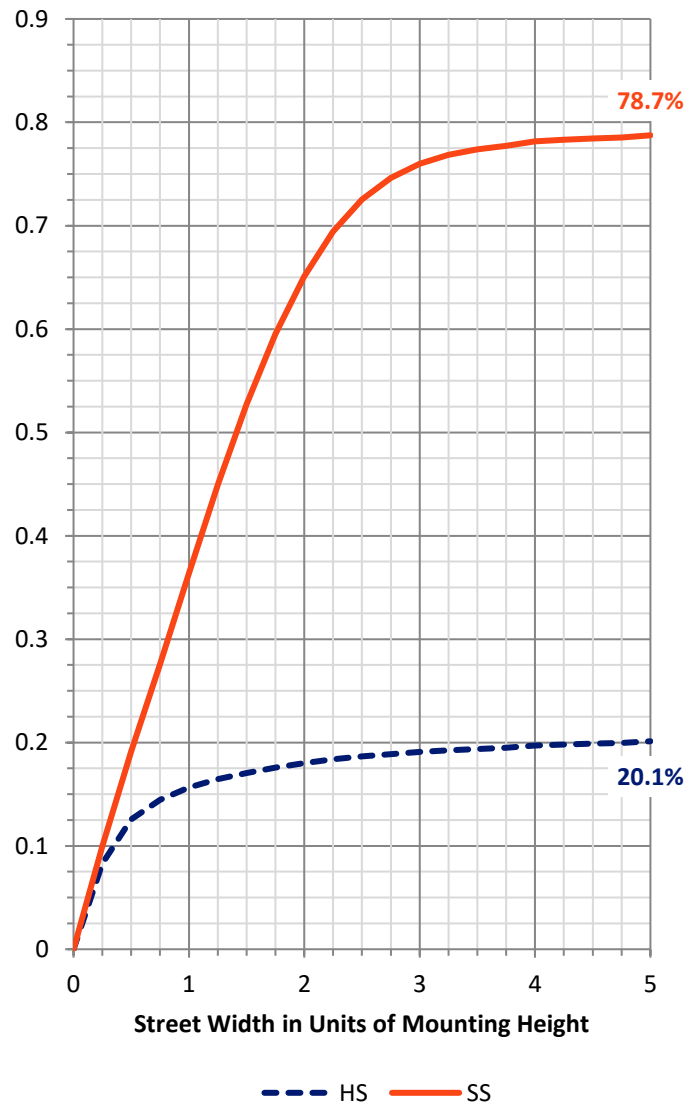
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11024.1	0.0	11024.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	41818.9	0.0	41818.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	52843.0	0.0	52843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.5	1.1
10°-20°	1723.6	3.3
20°-30°	2545.2	4.8
30°-40°	3699.4	7.0
40°-50°	6657.7	12.6
50°-60°	11533.8	21.8
60°-70°	16462.0	31.2
70°-80°	8450.7	16.0
80°-90°	1183.1	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°	52843.0	100.0
0°-180°	52843.0	100.0

Coefficient of Utilization



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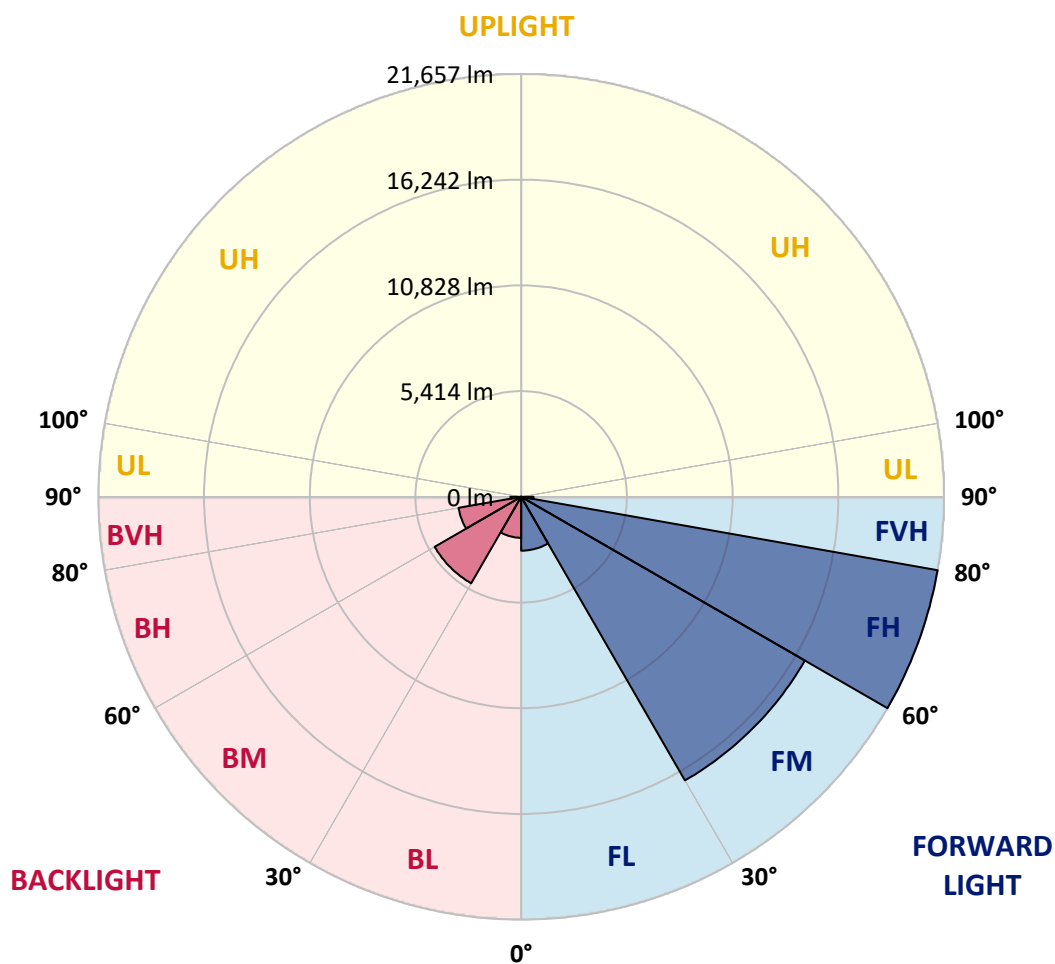
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2757.2	5.2			
FM	(30°-60°)	16773.8	31.7			
FH	(60°-80°)	21656.5	41.0			G5
FVH	(80°-90°)	631.3	1.2			G4/750
BL	(0°-30°)	2099.0	4.0	B3/2500		
BM	(30°-60°)	5117.0	9.7	B4/8500		
BH	(60°-80°)	3256.2	6.2	B4/5000		G4/5000
BVH	(80°-90°)	551.8	1.0			G4/750
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°	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4
2.5°	6491.3	6478.5	6473.4	6463.1	6450.2	6385.9	6373.1	6326.8	6262.5	6195.7	6126.3
5°	6918.1	6915.5	6887.3	6835.8	6753.6	6612.2	6578.8	6465.6	6314.0	6167.4	6020.9
7.5°	7293.4	7270.3	7216.3	7113.5	6969.5	6776.7	6730.4	6573.6	6365.4	6164.9	5966.9
10°	7568.5	7555.7	7437.4	7296.0	7108.3	6895.0	6841.0	6666.2	6437.4	6182.8	5936.0
12.5°	7725.3	7699.6	7563.4	7393.7	7170.0	6961.8	6907.8	6730.4	6473.4	6182.8	5892.3
15°	7715.1	7697.1	7560.8	7375.7	7149.5	6967.0	6918.1	6740.7	6465.6	6157.1	5835.8
17.5°	7509.4	7517.1	7401.4	7218.9	7033.8	6895.0	6851.3	6686.7	6414.2	6105.7	5768.9
20°	7149.5	7185.5	7108.3	6946.4	6843.6	6748.4	6720.2	6581.3	6334.5	6031.2	5697.0
22.5°	6789.6	6823.0	6792.1	6655.9	6640.5	6583.9	6568.5	6468.2	6265.1	5984.9	5653.3
25°	6524.8	6555.6	6550.5	6432.2	6478.5	6475.9	6463.1	6414.2	6249.7	5984.9	5661.0
27.5°	6452.8	6463.1	6452.8	6344.8	6409.1	6460.5	6450.2	6442.5	6296.0	6059.4	5758.7
30°	6699.6	6684.2	6604.5	6385.9	6445.1	6517.1	6506.8	6511.9	6434.8	6254.8	5977.2
32.5°	7684.2	7614.8	7362.9	6748.4	6591.6	6630.2	6635.3	6720.2	6733.0	6555.6	6316.5
35°	9157.3	9080.2	8753.7	7720.2	7046.6	6913.0	6913.0	7041.5	7118.6	6987.5	6843.6
37.5°	10717.8	10633.0	10458.1	9067.3	8003.0	7404.0	7391.1	7481.1	7591.7	7622.5	7658.5
40°	12491.7	12401.7	12450.5	10579.0	9337.3	8254.9	8072.4	8008.1	8306.4	8504.3	8792.2
42.5°	14432.6	14391.5	14409.5	12262.9	10856.6	9527.5	9267.8	8936.2	9296.1	9648.3	10252.5
45°	16229.7	16265.7	16247.7	14065.0	12548.2	11080.3	10805.2	10162.5	10514.7	11118.8	12103.5
47.5°	17803.0	17653.9	17885.3	16034.3	14442.9	12818.2	12478.8	11617.6	11974.9	12720.5	14386.4
50°	19713.1	19692.6	19353.2	18661.7	16733.5	14563.8	14119.0	13121.5	13676.8	14712.9	17263.1
52.5°	21721.0	21348.2	21037.1	20705.5	19163.0	16353.1	15808.0	14620.3	15676.9	16980.3	20769.7
55°	22132.3	21965.2	22350.8	22908.7	21505.0	18211.8	17576.8	16499.6	17929.0	19571.7	24813.7
57.5°	23011.5	23008.9	23805.9	24800.8	23916.4	20183.6	19543.5	18769.6	20461.2	22541.1	29107.0
60°	23605.4	23772.5	25253.3	27184.0	26284.2	22461.4	21872.6	21389.3	23340.6	25860.0	33107.2
62.5°	23916.4	24142.7	26163.4	28150.6	29631.4	26253.3	25664.6	24967.9	27150.6	29500.3	35446.6
65°	22623.3	23068.1	26022.0	28986.1	32562.2	32400.2	32135.4	30911.7	31914.3	32377.1	34600.8
67.5°	19044.7	19499.8	22939.5	28207.2	34654.8	38328.5	38385.1	36295.0	34845.0	32623.9	29091.5
70°	13568.8	13926.2	16772.1	23649.1	33060.9	42202.8	42395.6	38775.9	34261.5	28932.1	20325.0
72.5°	6442.5	6661.0	9355.3	15391.6	26235.3	38667.9	39040.6	35608.6	29132.7	21420.2	11088.0
75°	2367.7	2434.6	3162.1	6547.9	15216.8	28515.7	28955.3	25525.8	19312.1	10663.8	4223.9
77.5°	1419.1	1462.8	1773.9	2763.6	5984.9	16299.1	16949.5	13882.5	8440.0	3969.4	2077.2
80°	992.3	1023.2	1272.6	1719.9	2827.9	6211.1	6789.6	5666.1	3362.6	2511.7	1511.6
82.5°	671.0	686.4	894.6	1162.0	1879.3	2218.6	2393.4	2519.4	2267.5	1869.0	958.9
85°	439.6	455.0	606.7	766.1	1195.4	1146.6	1172.3	1483.4	1655.6	1270.0	532.2
87.5°	251.9	262.2	365.1	408.8	586.1	485.9	491.0	781.5	1059.2	856.1	323.9
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°	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4	6131.4
2.5°	6108.3	6074.9	6000.3	5954.0	5910.3	5900.1	5882.1	5879.5	5876.9	5876.9	5869.2
5°	5972.0	5915.5	5799.8	5735.5	5681.5	5676.4	5673.8	5686.7	5691.8	5697.0	5689.3
7.5°	5884.6	5807.5	5663.5	5571.0	5506.7	5491.3	5517.0	5576.1	5614.7	5630.1	5622.4
10°	5830.6	5735.5	5568.4	5468.2	5414.2	5406.5	5439.9	5509.3	5589.0	5619.8	5617.3
12.5°	5768.9	5661.0	5483.6	5378.2	5347.3	5362.8	5406.5	5470.7	5553.0	5601.8	5604.4
15°	5707.2	5581.3	5398.7	5306.2	5293.3	5313.9	5355.0	5403.9	5468.2	5517.0	5522.1
17.5°	5632.7	5501.6	5319.1	5223.9	5213.6	5223.9	5226.5	5252.2	5293.3	5339.6	5352.5
20°	5553.0	5419.3	5229.1	5134.0	5087.7	5046.5	5000.3	5005.4	5018.3	5064.5	5074.8
22.5°	5496.4	5362.8	5159.7	5028.5	4905.1	4781.7	4689.2	4676.3	4681.5	4720.0	4732.9
25°	5501.6	5360.2	5141.7	4915.4	4645.5	4447.5	4324.1	4303.6	4301.0	4329.3	4347.3
27.5°	5601.8	5460.4	5208.5	4799.7	4362.7	4069.6	3938.5	3923.1	3902.5	3910.2	3930.8
30°	5825.5	5694.4	5370.5	4681.5	4056.8	3699.4	3563.2	3547.7	3519.5	3506.6	3522.0
32.5°	6190.6	6082.6	5607.0	4568.4	3750.8	3383.2	3244.4	3211.0	3193.0	3177.5	3190.4
35°	6797.3	6751.0	5923.2	4445.0	3480.9	3139.0	3013.0	2961.6	2935.9	2964.2	2984.7
37.5°	7748.5	7774.2	6337.1	4252.2	3272.7	2977.0	2871.6	2812.5	2773.9	2797.1	2820.2
40°	9095.6	9113.6	6794.7	3979.6	3092.7	2881.9	2768.8	2714.8	2660.8	2619.7	2617.1
42.5°	10864.3	10681.8	7244.6	3684.0	2884.5	2822.8	2696.8	2630.0	2547.7	2434.6	2411.4
45°	12962.1	12322.0	7586.5	3344.7	2650.5	2750.8	2617.1	2524.6	2396.0	2272.6	2259.8
47.5°	15378.7	14083.0	7753.6	2992.4	2432.0	2645.4	2519.4	2372.9	2210.9	2149.2	2141.5
50°	18330.0	16173.1	7833.3	2650.5	2241.8	2506.6	2378.0	2205.8	2069.5	2056.7	2049.0
52.5°	21690.1	18687.4	7859.0	2370.3	2084.9	2326.6	2262.3	2095.2	1987.3	1997.5	1997.5
55°	25207.0	21283.9	7509.4	2167.2	1941.0	2141.5	2185.2	2051.5	1961.5	2002.7	2018.1
57.5°	28436.0	23584.8	6409.1	2010.4	1804.7	2000.1	2156.9	2092.7	2031.0	2198.1	2208.3
60°	30914.2	24944.8	4786.9	1869.0	1704.5	1951.3	2231.5	2249.5	2264.9	2663.4	2717.4
62.5°	31433.6	24492.3	3290.7	1758.4	1658.2	1992.4	2367.7	2370.3	2352.3	2630.0	2663.4
65°	29050.4	21631.0	2393.4	1696.7	1619.6	2066.9	2483.4	2429.4	2311.2	2522.0	2460.3
67.5°	23070.6	16296.5	1992.4	1650.5	1563.1	2061.8	2606.8	2483.4	2288.0	2470.6	2370.3
70°	14975.1	9854.0	1773.9	1611.9	1496.2	1964.1	2678.8	2478.3	2221.2	2298.3	2180.1
72.5°	7306.3	4406.4	1627.3	1555.4	1426.8	1827.9	2676.2	2432.0	2151.8	2146.6	2082.4
75°	2858.8	2018.1	1493.7	1470.5	1308.6	1673.6	2604.3	2365.2	2069.5	1987.3	1964.1
77.5°	1673.6	1439.7	1324.0	1344.5	1167.2	1519.4	2498.8	2249.5	1956.4	1858.7	1833.0
80°	1218.6	1077.2	1128.6	1162.0	997.5	1365.1	2357.5	2108.1	1830.4	1879.3	1843.3
82.5°	781.5	694.1	915.2	948.6	830.4	1208.3	2203.2	1959.0	1653.0	1501.4	1465.4
85°	398.5	439.6	681.3	722.4	640.1	992.3	2015.5	1761.0	1452.5	1249.4	1270.0
87.5°	223.7	300.8	434.5	485.9	452.5	763.5	1635.0	1452.5	1185.2	964.1	848.4
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)