

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: P192755

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-RW-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41623.4 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 391
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

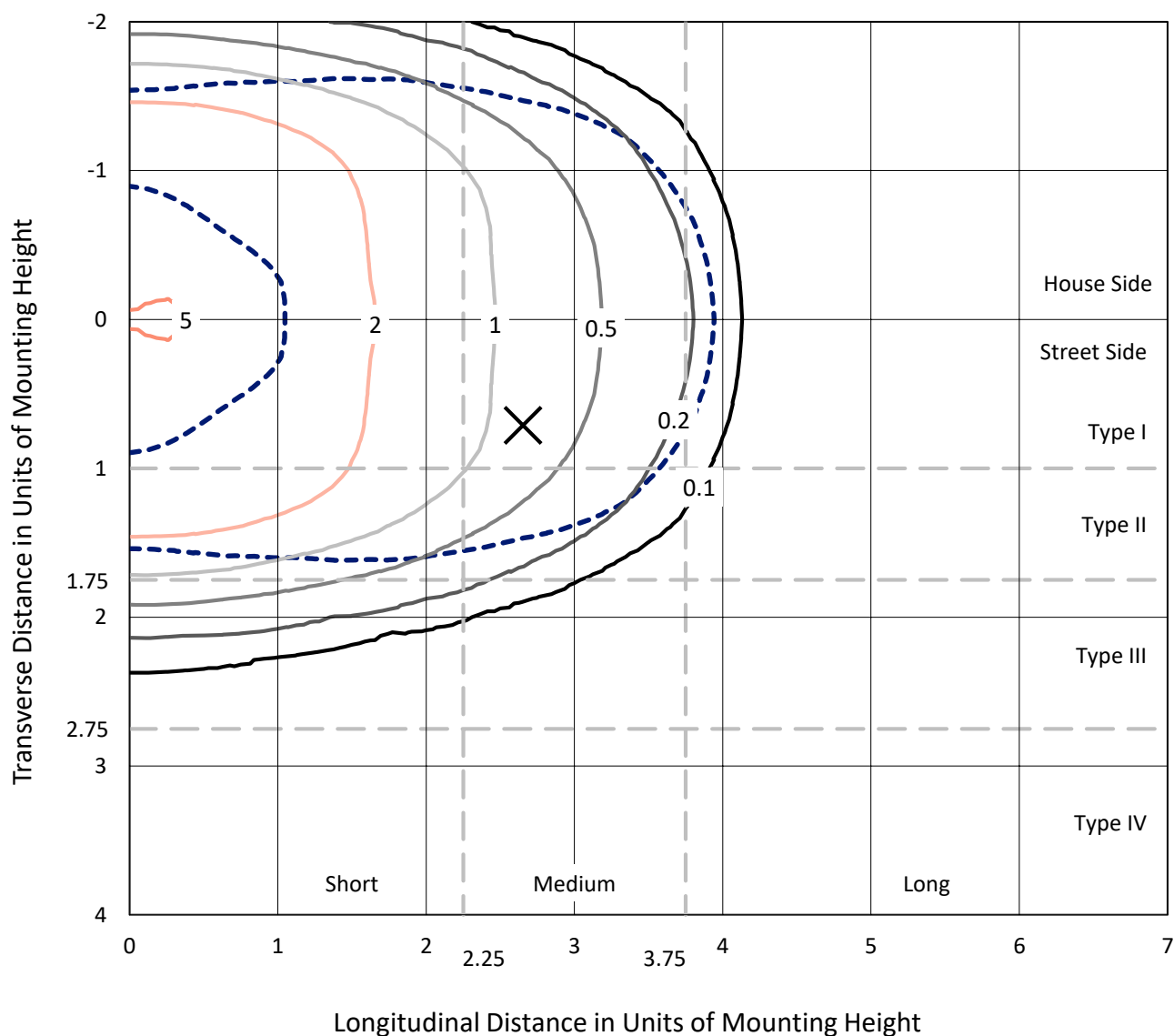


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

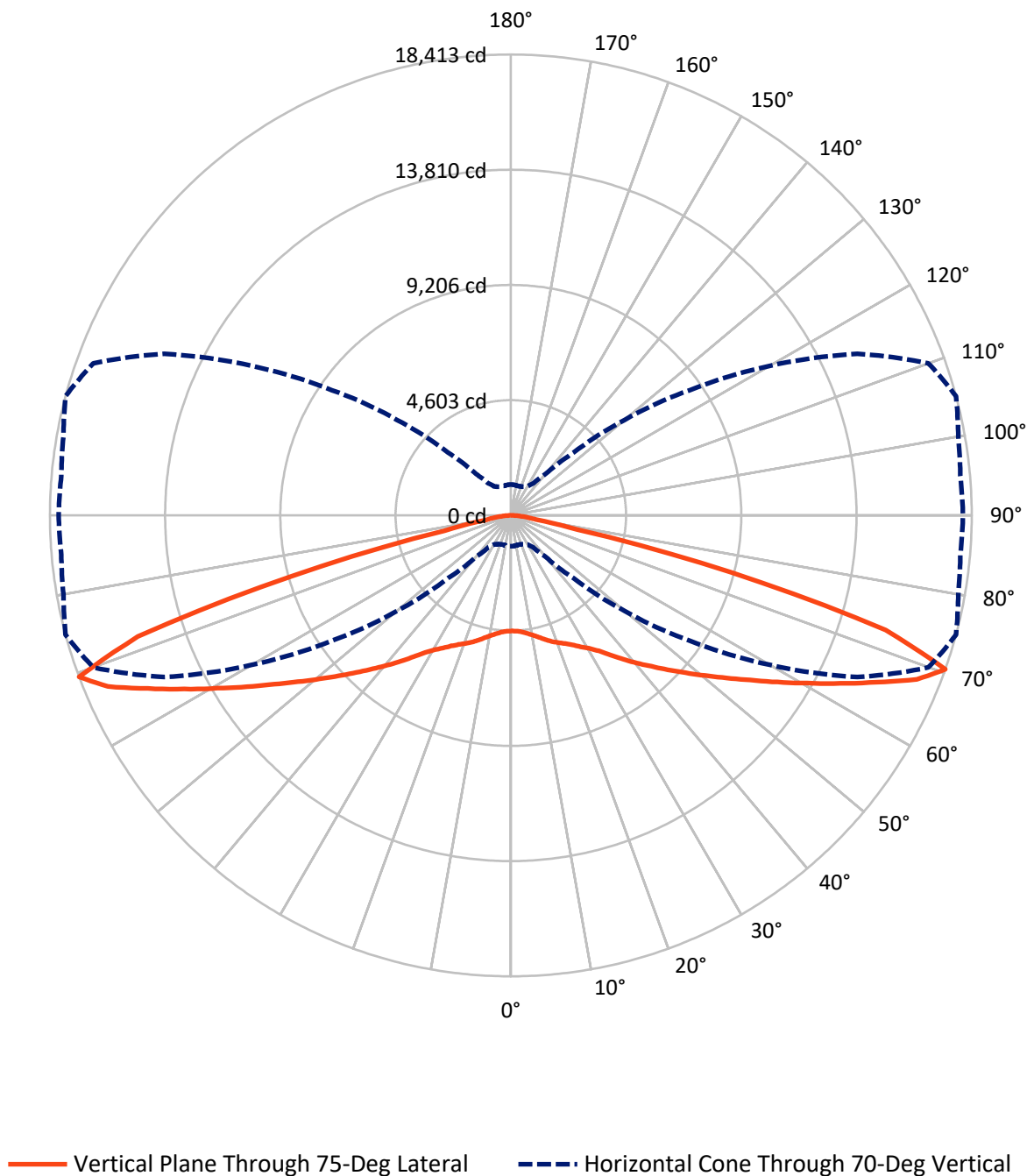


Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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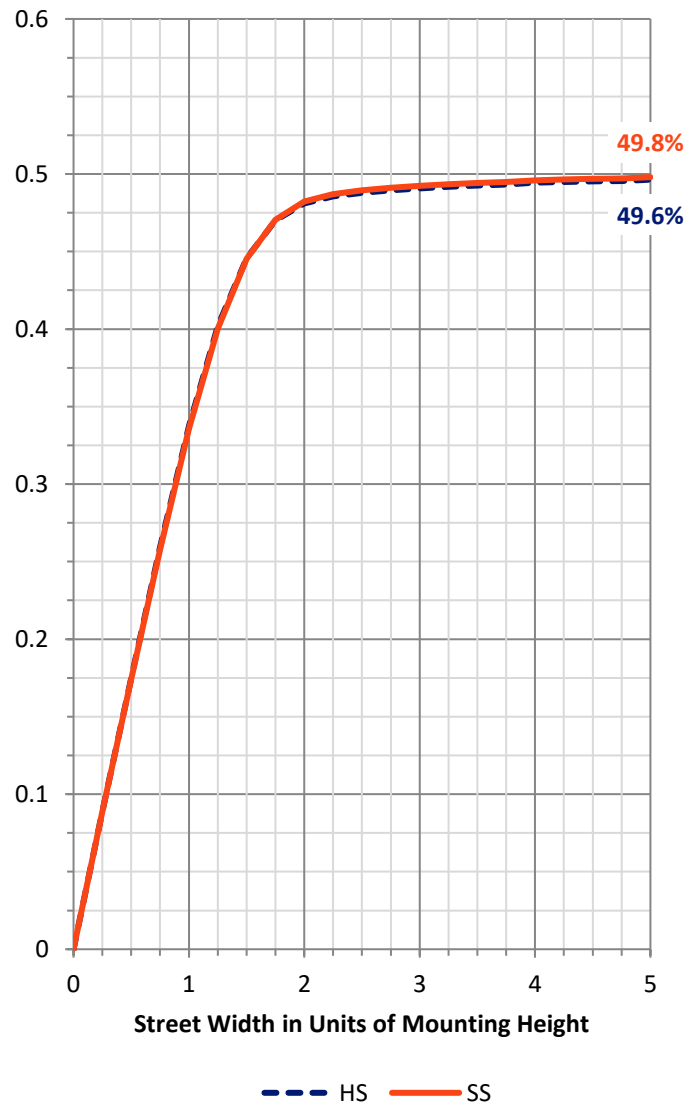
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20811.7	0.0	20811.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20811.7	0.0	20811.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	41623.4	0.0	41623.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.8	1.1
10°-20°	1375.9	3.3
20°-30°	2589.6	6.2
30°-40°	4585.7	11.0
40°-50°	7668.7	18.4
50°-60°	10686.4	25.7
60°-70°	9909.9	23.8
70°-80°	3949.4	9.5
80°-90°	415.1	1.0
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°	41623.4	100.0
0°-180°	41623.4	100.0

Coefficient of Utilization



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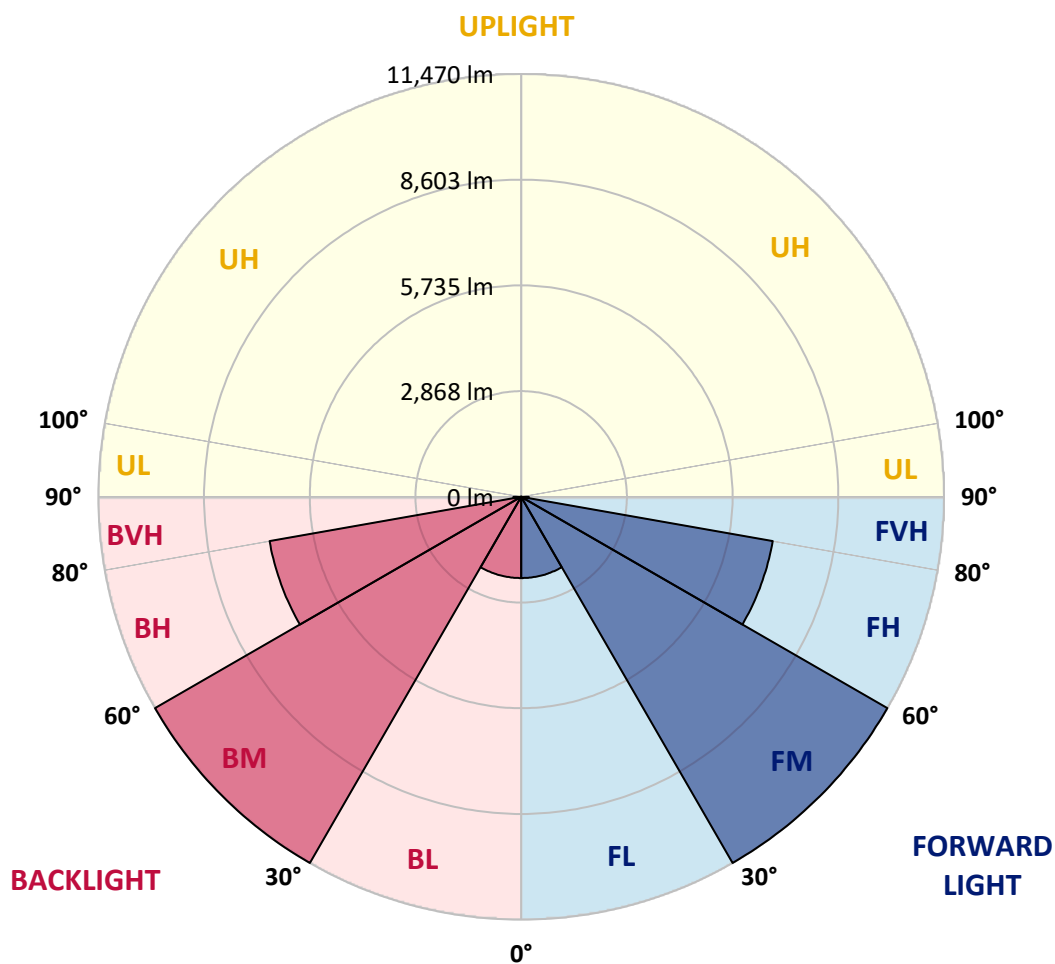
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2204.1	5.3			
FM	(30°-60°)	11470.4	27.6			
FH	(60°-80°)	6929.6	16.6			G3/7500
FVH	(80°-90°)	207.6	0.5			G2/225
BL	(0°-30°)	2204.1	5.3	B3/2500		
BM	(30°-60°)	11470.4	27.6	B5		
BH	(60°-80°)	6929.6	16.6	B5		G5
BVH	(80°-90°)	207.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0
2.5°	4609.1	4605.2	4609.1	4607.1	4611.1	4611.1	4615.0	4622.9	4622.9	4628.8	4626.8
5°	4563.9	4561.9	4567.8	4573.7	4579.6	4591.4	4603.2	4620.9	4634.7	4644.5	4654.3
7.5°	4475.4	4475.4	4483.2	4497.0	4510.8	4536.3	4563.9	4599.3	4634.7	4664.2	4689.9
10°	4402.6	4406.5	4416.4	4440.0	4463.6	4502.9	4540.3	4591.4	4640.6	4689.9	4729.2
12.5°	4359.3	4365.2	4382.9	4418.3	4457.7	4510.8	4567.8	4632.7	4687.9	4746.9	4786.2
15°	4373.1	4377.0	4402.6	4445.9	4497.0	4563.9	4640.6	4717.4	4782.3	4845.2	4898.3
17.5°	4449.8	4455.7	4485.2	4534.4	4587.5	4666.1	4748.9	4835.4	4916.0	4986.8	5051.7
20°	4587.5	4593.4	4630.7	4684.0	4746.9	4827.5	4910.1	5000.6	5091.2	5165.9	5238.7
22.5°	4782.3	4792.1	4827.5	4880.6	4951.4	5038.0	5136.4	5232.8	5319.3	5388.1	5453.0
25°	5038.0	5059.6	5093.1	5152.1	5226.9	5305.5	5411.7	5510.2	5592.8	5657.7	5704.9
27.5°	5399.9	5429.4	5455.0	5512.1	5584.9	5659.6	5765.8	5852.4	5931.1	5994.1	6029.5
30°	5879.9	5909.5	5935.1	5990.1	6057.0	6127.8	6228.1	6304.8	6354.1	6403.2	6401.3
32.5°	6462.2	6493.8	6503.5	6562.5	6631.4	6708.1	6798.6	6842.0	6881.2	6887.1	6851.7
35°	7113.4	7129.1	7168.5	7247.1	7325.9	7388.7	7475.3	7497.0	7497.0	7467.5	7388.7
37.5°	7827.5	7837.2	7892.4	7981.0	8061.5	8126.4	8185.4	8228.8	8207.1	8144.1	8012.4
40°	8610.4	8628.1	8706.8	8785.5	8876.0	8937.0	8999.9	9007.8	8986.1	8893.7	8714.6
42.5°	9357.9	9373.7	9452.3	9576.3	9694.3	9778.9	9837.9	9849.7	9780.9	9696.3	9474.0
45°	10001.3	10042.6	10144.8	10290.4	10461.6	10581.5	10662.2	10695.6	10634.6	10524.5	10266.8
47.5°	10510.7	10552.0	10697.6	10870.8	11083.1	11278.0	11411.7	11482.5	11466.8	11384.2	11102.8
50°	10884.5	10923.8	11081.2	11293.7	11541.5	11783.5	12011.8	12180.9	12239.9	12202.5	11944.8
52.5°	10927.8	10992.7	11177.6	11462.8	11785.5	12116.0	12440.6	12727.7	12922.5	12952.0	12761.2
55°	10323.8	10388.8	10644.5	11067.4	11547.4	12086.5	12605.8	13089.7	13473.3	13670.1	13569.7
57.5°	8899.6	9015.6	9285.2	9780.9	10487.1	11293.7	12121.9	12981.5	13762.6	14283.8	14384.1
60°	6820.3	6957.9	7229.4	7756.7	8543.5	9505.4	10611.0	11881.8	13260.9	14433.2	15133.6
62.5°	4375.1	4504.9	4790.2	5248.5	5889.7	6932.4	8118.6	9627.5	11480.5	13331.7	14999.8
65°	2248.5	2319.3	2468.8	2746.2	3245.9	4024.9	5089.2	6594.1	8712.7	10996.6	13408.4
67.5°	1424.2	1438.1	1471.5	1510.8	1638.7	1908.2	2403.9	3342.2	5085.2	7467.5	10290.4
70°	1231.5	1231.5	1215.7	1209.8	1225.6	1262.9	1339.6	1558.0	2146.2	3544.9	5935.1
72.5°	1127.2	1115.4	1087.9	1066.3	1062.3	1062.3	1078.1	1111.5	1205.9	1444.0	2323.3
75°	1038.7	1005.1	967.8	942.3	932.4	922.5	920.6	926.5	946.1	983.6	1109.5
77.5°	930.5	887.1	843.9	818.4	806.6	792.7	780.9	767.2	757.3	769.1	824.3
80°	800.7	751.4	718.1	702.3	690.5	670.9	645.2	621.6	600.0	596.0	629.6
82.5°	645.2	588.2	590.1	596.0	574.3	546.9	519.3	493.8	456.3	436.7	456.3
85°	521.2	491.7	478.0	515.3	483.9	442.6	399.4	354.1	295.1	247.9	269.6
87.5°	202.5	202.5	302.9	466.2	419.0	342.3	293.2	249.8	155.3	119.9	122.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0
2.5°	4624.8	4628.8	4626.8	4624.8	4624.8	4622.9	4624.8	4624.8
5°	4660.2	4670.1	4670.1	4674.0	4674.0	4676.0	4677.9	4676.0
7.5°	4713.5	4731.2	4743.0	4756.7	4758.7	4760.7	4764.6	4760.7
10°	4766.6	4802.0	4827.5	4853.1	4864.9	4868.8	4872.8	4872.8
12.5°	4833.4	4882.6	4927.8	4973.1	4994.7	5006.5	5006.5	5014.4
15°	4943.6	4992.7	5045.8	5106.9	5144.3	5163.9	5169.8	5169.8
17.5°	5099.0	5142.3	5187.5	5246.5	5293.7	5319.3	5325.2	5323.2
20°	5280.0	5321.3	5346.8	5384.2	5425.5	5455.0	5462.9	5462.9
22.5°	5486.5	5510.2	5514.1	5525.9	5559.3	5598.7	5616.4	5620.3
25°	5714.7	5720.6	5704.9	5704.9	5726.5	5763.9	5781.6	5783.5
27.5°	6009.8	5980.3	5941.0	5927.2	5941.0	5984.2	6005.9	6013.7
30°	6377.7	6306.8	6216.3	6167.1	6159.3	6216.3	6255.6	6261.5
32.5°	6798.6	6696.3	6576.4	6476.1	6450.4	6485.8	6533.0	6531.1
35°	7298.3	7176.3	7030.8	6902.9	6843.9	6879.3	6946.1	6954.1
37.5°	7874.7	7715.4	7548.1	7386.8	7294.3	7304.2	7375.0	7398.6
40°	8518.0	8311.4	8100.9	7884.4	7752.7	7727.2	7813.6	7827.5
42.5°	9206.5	8940.9	8675.3	8407.8	8238.5	8199.3	8299.6	8293.7
45°	9940.2	9601.9	9291.1	8996.0	8795.4	8736.3	8819.0	8819.0
47.5°	10729.0	10312.0	9942.1	9607.8	9389.4	9304.8	9383.5	9389.4
50°	11565.1	11122.5	10687.7	10315.9	10054.4	9946.1	10048.5	10064.2
52.5°	12397.2	11966.4	11527.7	11102.8	10786.1	10654.3	10772.3	10823.6
55°	13241.2	12818.2	12399.2	11984.1	11608.5	11453.0	11578.9	11643.9
57.5°	14132.3	13740.9	13341.5	12922.5	12560.6	12318.6	12452.4	12538.9
60°	15176.8	14842.5	14427.3	13965.1	13599.2	13353.3	13430.0	13506.7
62.5°	16003.1	16133.0	15780.9	15245.7	14775.5	14460.9	14535.7	14616.2
65°	15603.8	16935.6	17248.3	16707.4	16056.2	15566.3	15534.9	15576.2
67.5°	13042.5	15629.3	17515.9	18031.3	17486.4	16805.7	16679.8	16740.8
70°	8724.5	11946.7	15275.3	17754.0	18412.9	18149.4	18025.4	18062.7
72.5°	4190.1	6957.9	10363.1	13658.3	15664.7	16585.4	16880.4	17024.1
75°	1532.5	2762.0	4994.7	7526.5	9086.4	10518.6	11453.0	11834.6
77.5°	924.6	1115.4	1595.4	2401.9	2720.7	3045.2	2919.3	2982.2
80°	684.6	773.1	875.3	983.6	1019.1	1019.1	979.6	948.2
82.5°	479.9	537.0	586.1	645.2	661.0	631.5	519.3	413.1
85°	308.8	334.5	356.0	393.5	383.6	365.9	246.0	218.4
87.5°	141.6	161.2	169.2	186.9	178.9	171.1	122.0	102.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)