

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: P192566

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53169.9 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 511
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

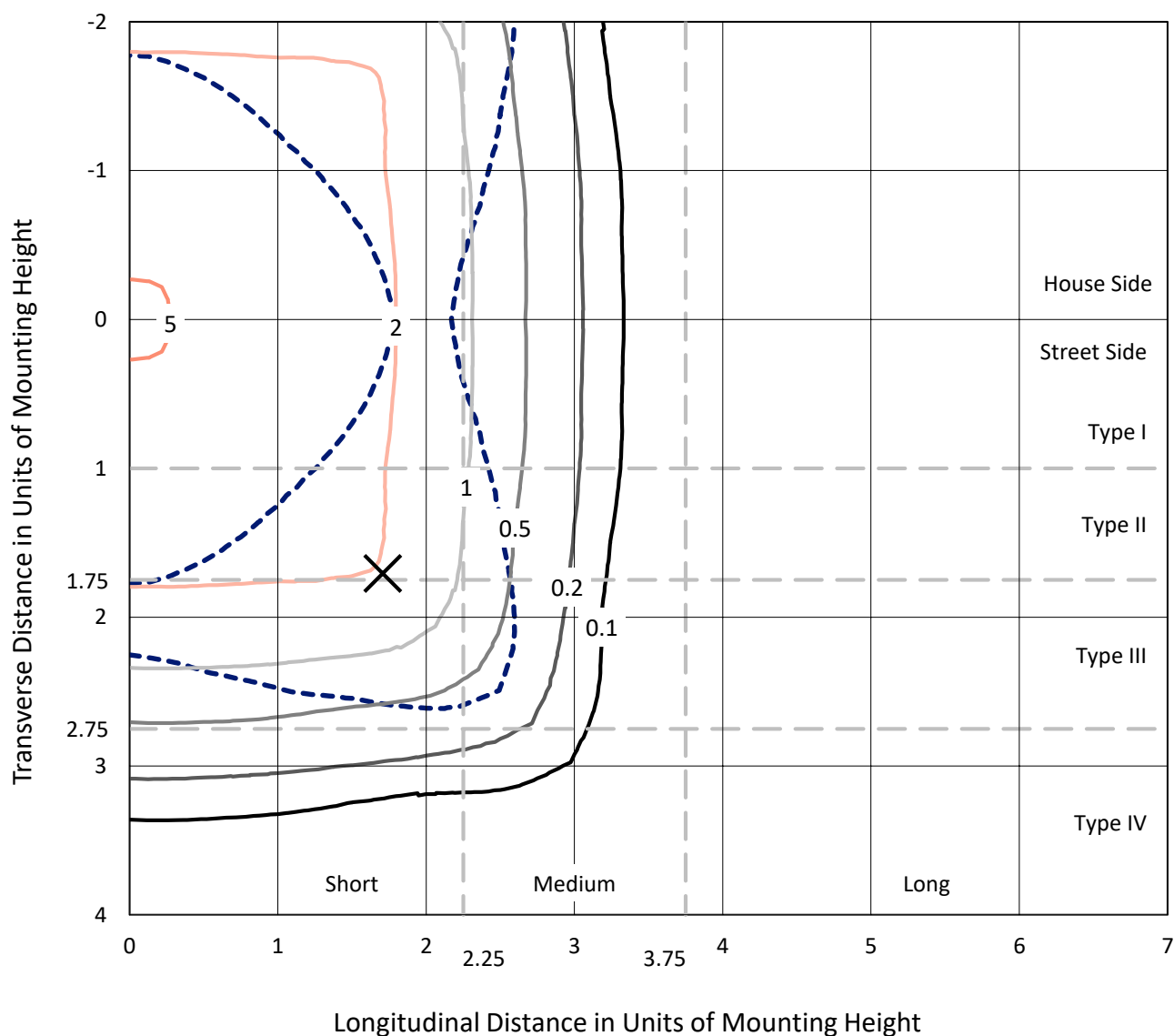


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

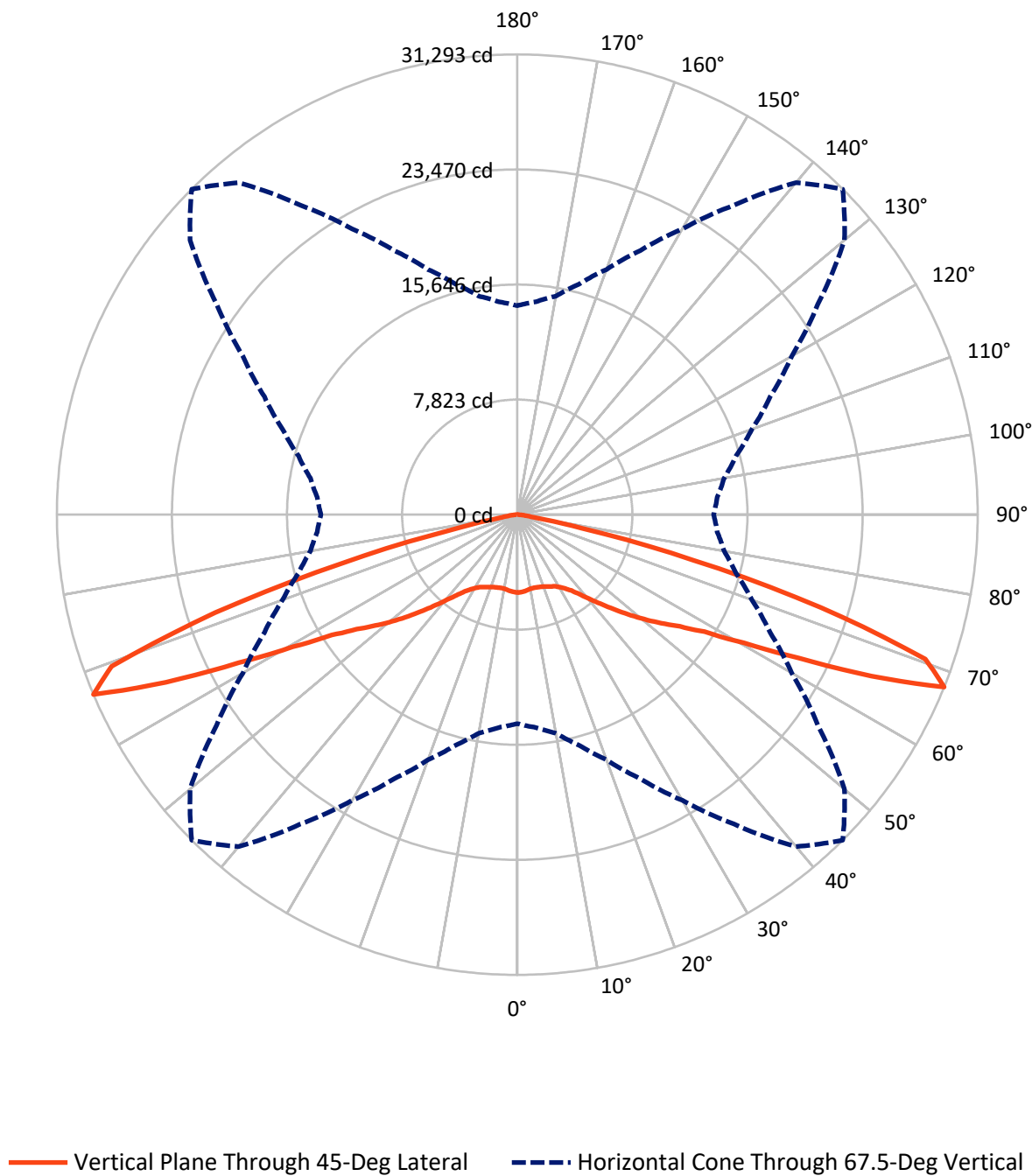


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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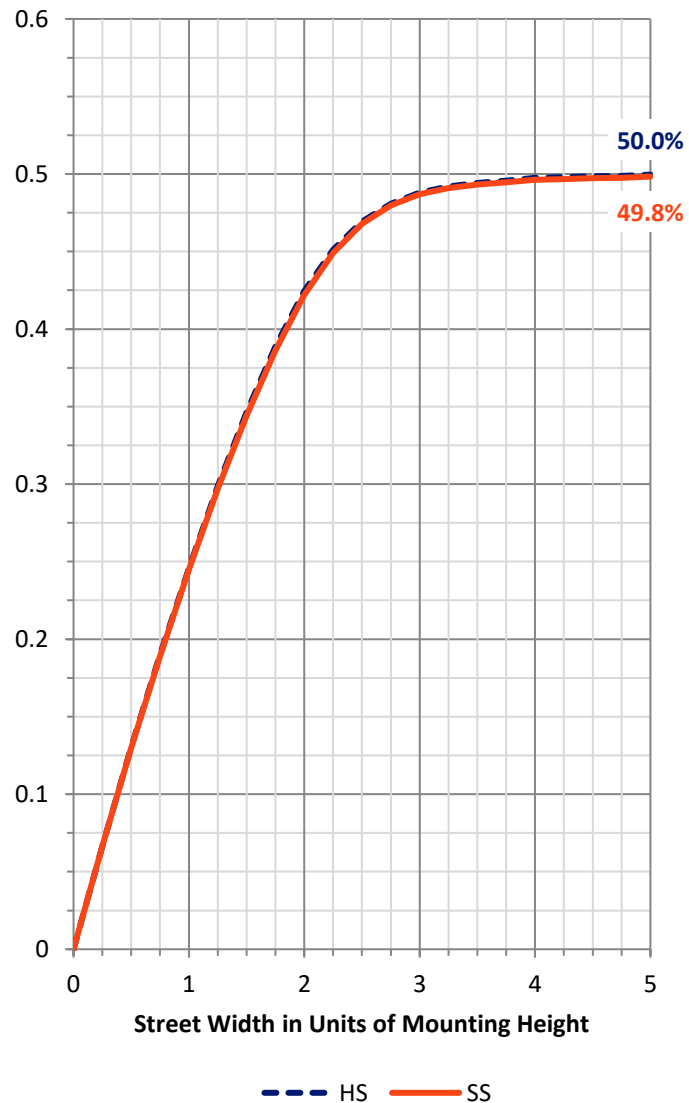
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26585.0	0.0	26585.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26585.0	0.0	26585.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	53169.9	0.0	53169.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.9	0.9
10°-20°	1439.1	2.7
20°-30°	2446.4	4.6
30°-40°	3999.1	7.5
40°-50°	7139.2	13.4
50°-60°	12036.8	22.6
60°-70°	18679.4	35.1
70°-80°	6563.1	12.3
80°-90°	370.9	0.7
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°	53169.9	100.0
0°-180°	53169.9	100.0

Coefficient of Utilization



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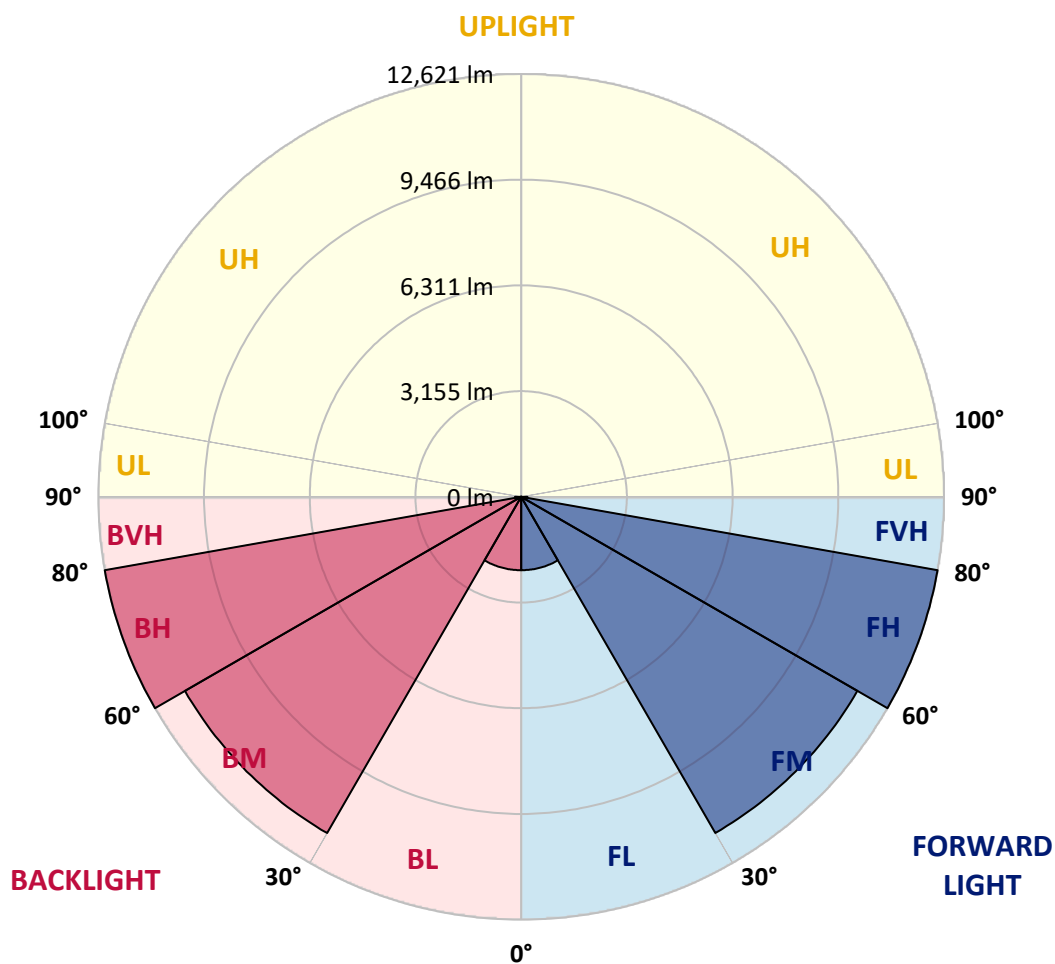
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2190.7	4.1			
FM	(30°-60°)	11587.6	21.8			
FH	(60°-80°)	12621.2	23.7			G5
FVH	(80°-90°)	185.4	0.3			G2/225
BL	(0°-30°)	2190.7	4.1	B3/2500		
BM	(30°-60°)	11587.6	21.8	B5		
BH	(60°-80°)	12621.2	23.7	B5		G5
BVH	(80°-90°)	185.4	0.3			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5298.6	5298.6	5298.6	5298.6	5298.6	5298.6	5298.6	5298.6	5298.6	5298.6	5298.6
2.5°	5279.1	5283.9	5283.9	5283.9	5281.5	5281.5	5276.5	5281.5	5279.1	5271.8	5274.2
5°	5235.0	5240.0	5240.0	5237.5	5244.8	5242.4	5235.0	5240.0	5237.5	5232.5	5235.0
7.5°	5171.5	5178.8	5178.8	5176.3	5183.7	5181.3	5176.3	5178.8	5178.8	5171.5	5171.5
10°	5100.6	5105.4	5105.4	5103.0	5115.2	5115.2	5112.8	5120.1	5122.5	5115.2	5110.4
12.5°	5034.5	5041.9	5041.9	5051.6	5063.8	5068.7	5081.0	5090.7	5100.6	5098.1	5088.3
15°	4995.5	5000.2	5010.1	5022.3	5041.9	5059.0	5078.6	5100.6	5120.1	5125.1	5110.4
17.5°	4971.0	4978.3	4992.9	5010.1	5037.0	5066.4	5095.7	5125.1	5151.9	5161.6	5144.6
20°	4963.6	4968.6	4983.2	5012.5	5049.2	5093.2	5134.7	5169.0	5205.6	5217.9	5205.6
22.5°	4978.3	4988.1	5005.1	5039.5	5088.3	5144.6	5193.4	5240.0	5286.4	5308.4	5291.3
25°	5044.3	5054.2	5076.0	5120.1	5173.9	5232.5	5288.8	5342.7	5384.2	5406.1	5394.0
27.5°	5166.6	5178.8	5205.6	5249.7	5308.4	5371.9	5433.1	5477.0	5511.4	5518.6	5504.1
30°	5350.0	5376.8	5408.7	5457.5	5526.0	5579.8	5640.9	5680.1	5721.6	5721.6	5709.4
32.5°	5636.0	5662.9	5697.3	5743.6	5797.4	5856.1	5910.0	5944.1	5988.2	5990.5	5961.1
35°	6063.9	6076.1	6105.5	6134.8	6183.7	6235.1	6281.6	6303.6	6340.2	6342.7	6315.7
37.5°	6628.8	6631.2	6650.7	6660.6	6704.5	6760.8	6804.7	6819.5	6853.8	6848.8	6821.9
40°	7286.5	7298.7	7306.0	7320.7	7367.3	7421.0	7467.5	7474.8	7511.5	7504.2	7469.8
42.5°	8047.0	8051.9	8093.4	8115.4	8159.4	8186.4	8245.0	8252.4	8296.4	8276.8	8237.7
45°	8900.3	8944.3	8983.4	9027.4	9073.9	9105.6	9152.1	9142.4	9171.7	9142.4	9120.3
47.5°	9797.6	9829.4	9917.5	9986.0	10061.6	10088.7	10154.7	10125.3	10154.7	10113.0	10105.7
50°	10785.5	10841.7	10917.5	10995.8	11076.4	11120.5	11206.0	11169.3	11208.5	11169.3	11147.4
52.5°	11758.7	11773.3	11939.7	12054.5	12167.0	12218.4	12269.7	12252.6	12255.1	12252.6	12230.6
55°	12683.0	12717.1	12883.5	13039.9	13235.5	13379.8	13467.9	13458.0	13436.0	13414.0	13377.3
57.5°	13724.5	13758.8	13949.4	14142.6	14365.2	14570.6	14749.0	14932.5	15003.4	15022.9	14942.2
60°	15133.0	15130.4	15384.8	15619.4	15937.4	16243.0	16634.2	17032.9	17490.0	17702.7	17421.6
62.5°	16565.8	16624.5	16991.2	17406.9	18062.2	18700.4	19421.7	20130.8	20854.6	21443.9	20817.9
65°	16394.7	16619.5	17164.8	18106.2	19316.6	20754.4	22309.4	23955.0	25441.7	26463.6	25316.9
67.5°	14208.7	14529.0	15084.0	16228.4	17741.8	19815.4	22426.8	25681.3	29463.8	31292.8	29026.2
70°	10298.9	10660.8	11242.8	12360.2	13859.0	15829.8	18666.2	22573.5	27581.1	29424.7	26928.2
72.5°	5125.1	5320.6	5680.1	6391.5	7526.1	9125.3	11697.6	15453.3	19883.9	21575.9	19294.5
75°	1740.9	1831.4	1892.6	2124.9	2484.2	3112.7	4391.4	6755.9	10306.2	12355.2	10159.6
77.5°	1004.9	1007.4	1049.0	1090.5	1151.7	1220.1	1391.3	1826.5	3159.1	4486.8	3269.1
80°	650.4	647.9	682.3	714.0	755.5	789.7	799.6	846.0	975.5	1156.5	1034.2
82.5°	337.4	379.0	454.8	496.4	574.6	589.2	569.7	552.7	584.4	606.4	621.0
85°	185.8	161.3	242.1	313.0	347.2	352.2	352.2	332.5	344.7	337.4	366.8
87.5°	85.5	78.2	95.4	154.0	163.8	139.5	146.7	129.6	92.9	90.4	102.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5298.6	5298.6	5298.6	5298.6	5298.6	5298.6	5298.6	5298.6
2.5°	5274.2	5276.5	5276.5	5283.9	5286.4	5291.3	5296.2	5298.6
5°	5232.5	5240.0	5235.0	5242.4	5242.4	5247.2	5247.2	5249.7
7.5°	5171.5	5178.8	5178.8	5178.8	5176.3	5183.7	5183.7	5183.7
10°	5107.9	5112.8	5110.4	5105.4	5100.6	5107.9	5105.4	5103.0
12.5°	5088.3	5076.0	5066.4	5061.4	5051.6	5054.2	5046.8	5046.8
15°	5100.6	5078.6	5061.4	5054.2	5044.3	5039.5	5034.5	5037.0
17.5°	5132.4	5105.4	5083.4	5071.2	5059.0	5051.6	5041.9	5044.3
20°	5188.6	5156.8	5125.1	5100.6	5078.6	5066.4	5059.0	5056.5
22.5°	5271.8	5225.3	5178.8	5142.1	5112.8	5095.7	5088.3	5083.4
25°	5367.1	5315.7	5261.9	5220.4	5191.0	5169.0	5154.3	5154.3
27.5°	5486.9	5445.3	5396.5	5347.4	5320.6	5298.6	5288.8	5283.9
30°	5687.4	5648.2	5609.2	5562.7	5528.4	5506.4	5489.3	5474.7
32.5°	5944.1	5912.3	5880.6	5846.4	5814.6	5785.2	5758.3	5746.1
35°	6306.0	6281.6	6259.6	6220.4	6208.2	6191.0	6176.4	6164.2
37.5°	6804.7	6795.1	6795.1	6753.5	6743.7	6736.4	6721.6	6724.2
40°	7460.1	7469.8	7457.7	7443.0	7435.6	7416.1	7416.1	7433.2
42.5°	8235.2	8242.5	8269.4	8245.0	8271.9	8247.4	8232.8	8245.0
45°	9135.0	9161.9	9215.7	9191.2	9208.4	9166.9	9115.5	9117.9
47.5°	10144.8	10169.3	10191.3	10174.2	10176.6	10108.2	10039.8	10022.6
50°	11193.8	11203.6	11215.8	11191.4	11196.3	11120.5	11042.2	11044.7
52.5°	12230.6	12277.0	12326.0	12259.9	12245.2	12159.7	12049.6	12005.6
55°	13416.5	13482.5	13426.3	13311.3	13196.5	13081.5	12937.2	12912.8
57.5°	14878.6	14766.2	14590.2	14372.5	14213.5	14052.2	13905.5	13844.4
60°	16913.0	16490.0	16172.1	15849.3	15646.5	15448.3	15255.3	15225.9
62.5°	19788.5	19057.3	18424.1	17756.6	17211.3	16785.8	16446.0	16350.6
65°	23392.6	21663.9	20165.0	18766.4	17551.2	16634.2	16057.2	15802.9
67.5°	24942.8	21529.4	18959.5	16974.1	15384.8	14274.7	13651.2	13340.7
70°	21918.2	17854.4	15059.5	13071.7	11624.2	10440.7	9876.0	9543.4
72.5°	15079.2	11357.6	8981.0	7330.5	6173.9	5183.7	4792.4	4763.1
75°	6770.6	4484.3	3090.6	2381.6	2005.0	1743.3	1662.7	1601.5
77.5°	1895.0	1401.0	1249.5	1168.7	1090.5	1000.0	965.9	973.2
80°	921.8	870.5	836.3	784.9	714.0	638.2	603.9	618.6
82.5°	611.3	603.9	625.9	589.2	486.5	413.2	347.2	317.8
85°	371.7	376.5	383.9	386.3	327.7	229.9	156.5	176.0
87.5°	146.7	168.7	183.3	190.7	178.5	110.1	88.1	90.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)