

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: P192556

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192556
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48468.5 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 445
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

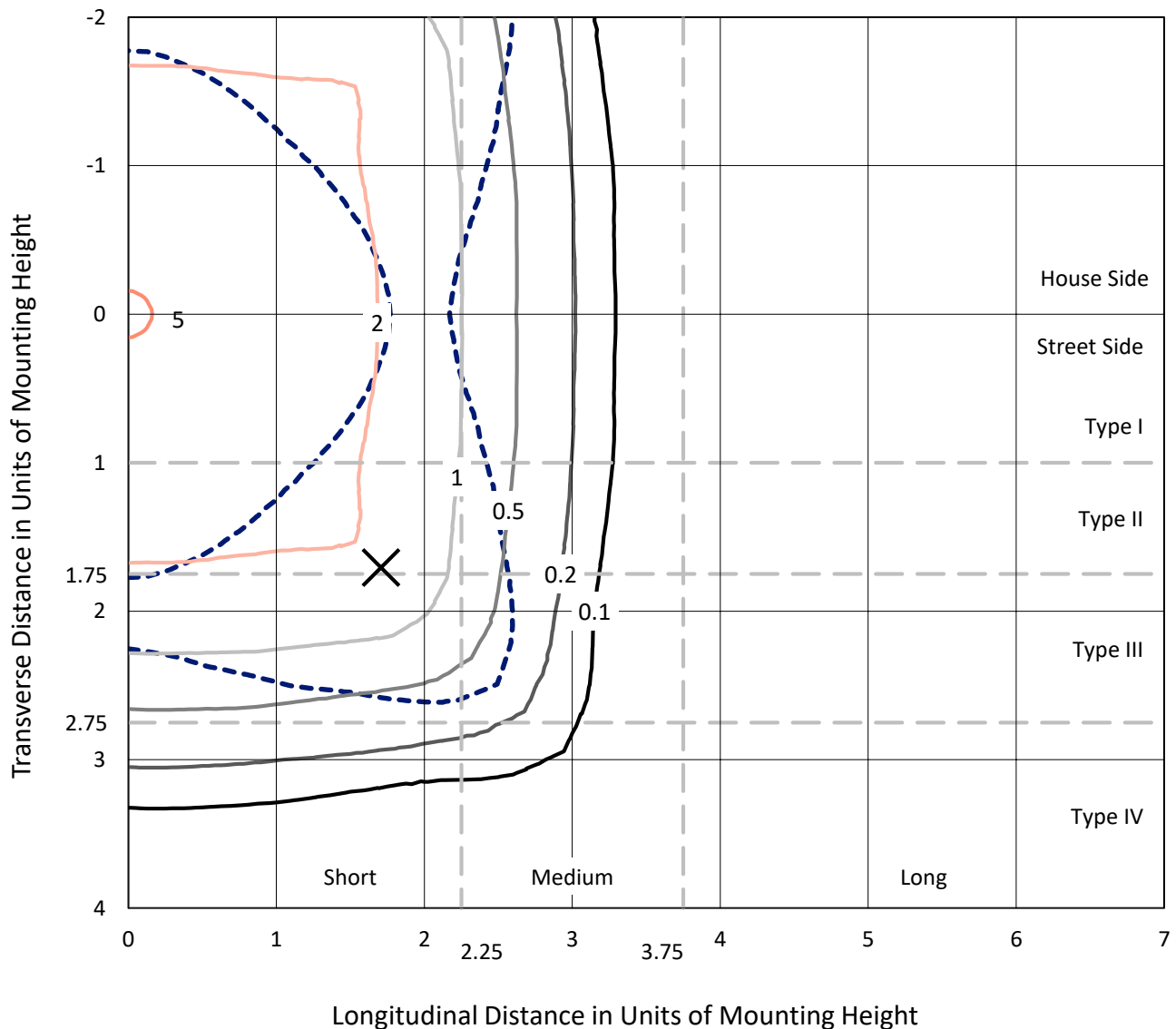


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

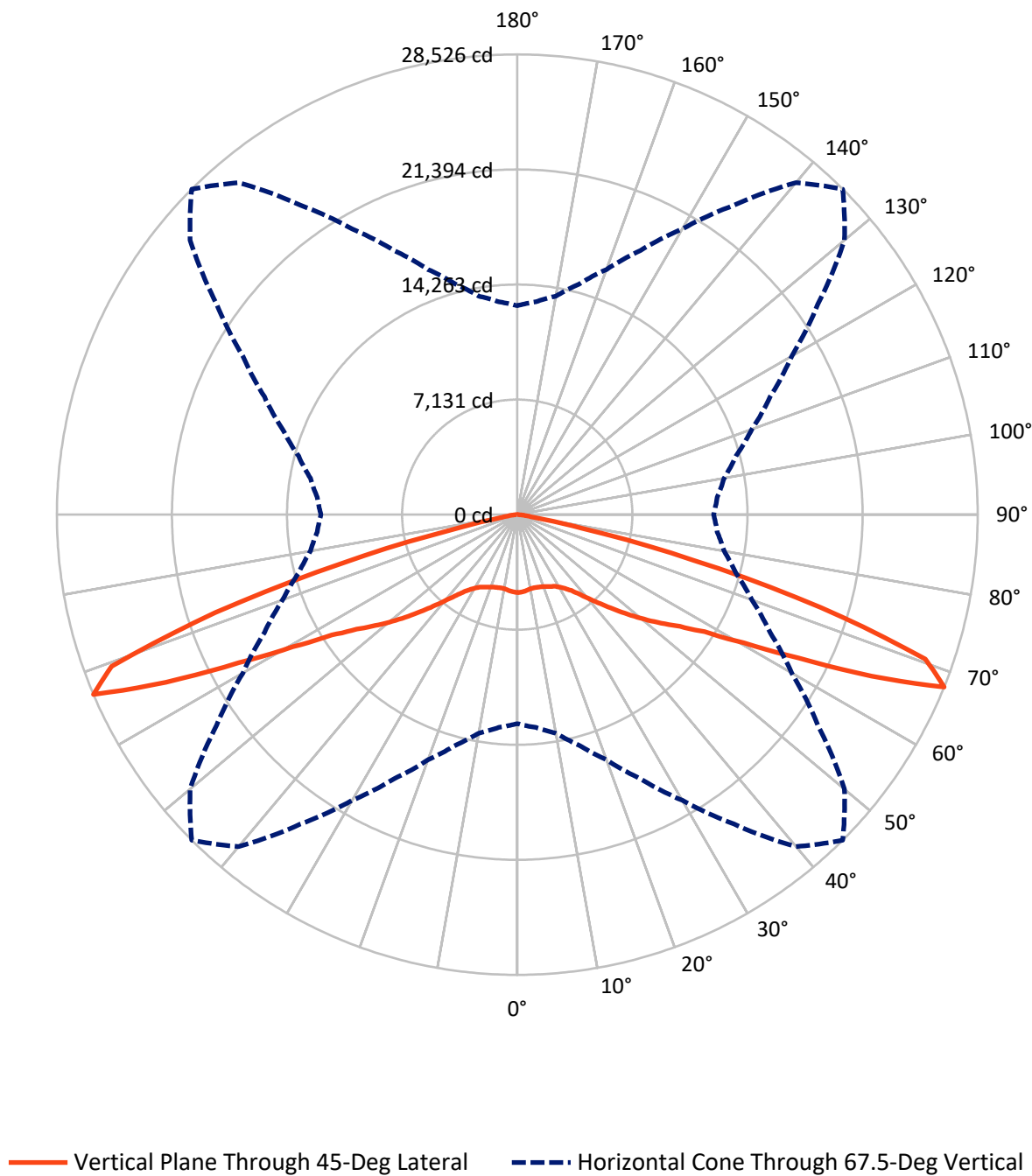


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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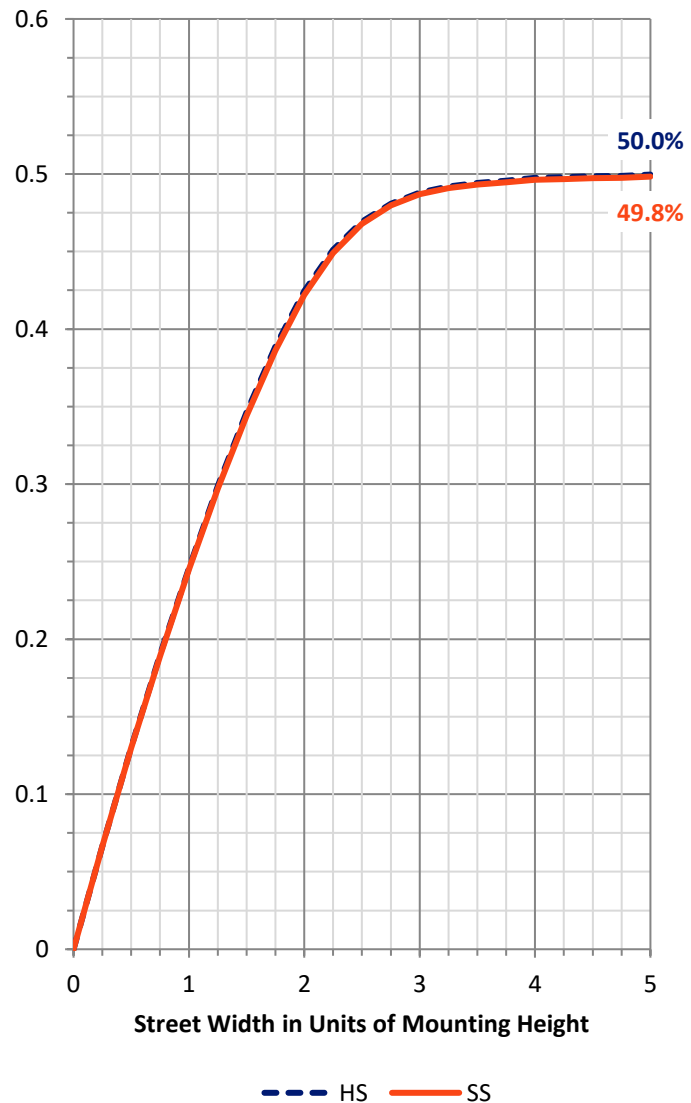
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24234.2	0.0	24234.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24234.2	0.0	24234.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	48468.5	0.0	48468.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.1	0.9
10°-20°	1311.8	2.7
20°-30°	2230.1	4.6
30°-40°	3645.5	7.5
40°-50°	6507.9	13.4
50°-60°	10972.5	22.6
60°-70°	17027.7	35.1
70°-80°	5982.8	12.3
80°-90°	338.1	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°	48468.5	100.0
0°-180°	48468.5	100.0

Coefficient of Utilization



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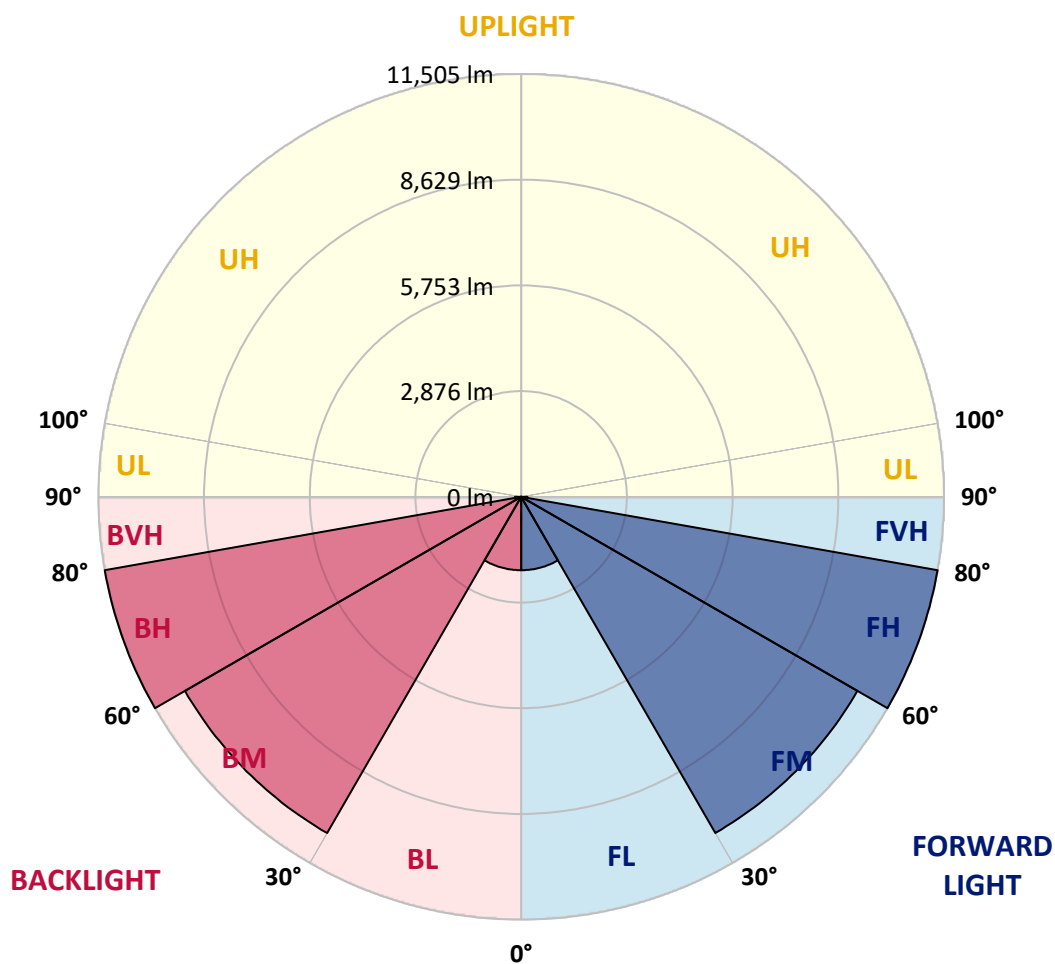
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1997.0	4.1			
FM	(30°-60°)	10563.0	21.8			
FH	(60°-80°)	11505.2	23.7			G4/12000
FVH	(80°-90°)	169.1	0.3			G2/225
BL	(0°-30°)	1997.0	4.1	B3/2500		
BM	(30°-60°)	10563.0	21.8	B5		
BH	(60°-80°)	11505.2	23.7	B5		G4/12000
BVH	(80°-90°)	169.1	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4830.2	4830.2	4830.2	4830.2	4830.2	4830.2	4830.2	4830.2	4830.2	4830.2	4830.2
2.5°	4812.3	4816.7	4816.7	4816.7	4814.5	4814.5	4810.0	4814.5	4812.3	4805.6	4807.9
5°	4772.1	4776.6	4776.6	4774.4	4781.0	4778.8	4772.1	4776.6	4774.4	4769.9	4772.1
7.5°	4714.2	4720.9	4720.9	4718.7	4725.4	4723.1	4718.7	4720.9	4720.9	4714.2	4714.2
10°	4649.5	4654.0	4654.0	4651.8	4662.9	4662.9	4660.7	4667.3	4669.6	4662.9	4658.5
12.5°	4589.3	4596.1	4596.1	4604.9	4616.1	4620.6	4631.7	4640.7	4649.5	4647.4	4638.4
15°	4553.7	4558.2	4567.0	4578.2	4596.1	4611.7	4629.6	4649.5	4667.3	4671.8	4658.5
17.5°	4531.4	4538.1	4551.5	4567.0	4591.6	4618.4	4645.0	4671.8	4696.4	4705.2	4689.6
20°	4524.8	4529.3	4542.6	4569.3	4602.8	4642.9	4680.7	4712.0	4745.3	4756.5	4745.3
22.5°	4538.1	4547.1	4562.6	4593.8	4638.4	4689.6	4734.2	4776.6	4819.0	4839.0	4823.4
25°	4598.2	4607.3	4627.2	4667.3	4716.4	4769.9	4821.2	4870.2	4908.2	4928.1	4917.0
27.5°	4709.7	4720.9	4745.3	4785.5	4839.0	4897.0	4952.7	4992.8	5024.0	5030.8	5017.3
30°	4876.9	4901.4	4930.5	4975.0	5037.4	5086.4	5142.2	5177.8	5215.7	5215.7	5204.6
32.5°	5137.7	5162.2	5193.4	5235.7	5284.8	5338.3	5387.3	5418.5	5458.7	5460.9	5434.1
35°	5527.8	5538.9	5565.6	5592.4	5637.0	5683.7	5726.2	5746.2	5779.6	5781.9	5757.3
37.5°	6042.6	6044.9	6062.7	6071.6	6111.8	6163.0	6203.0	6216.6	6247.7	6243.2	6218.7
40°	6642.2	6653.4	6660.0	6673.4	6715.7	6764.8	6807.2	6813.9	6847.3	6840.6	6809.4
42.5°	7335.4	7339.8	7377.7	7397.8	7438.0	7462.4	7516.0	7522.6	7562.7	7544.9	7509.3
45°	8113.3	8153.5	8189.1	8229.2	8271.6	8300.5	8342.9	8334.0	8360.7	8334.0	8313.9
47.5°	8931.3	8960.3	9040.5	9102.9	9172.1	9196.6	9256.8	9230.0	9256.8	9218.9	9212.2
50°	9831.8	9883.0	9952.2	10023.5	10097.0	10137.2	10215.2	10181.8	10217.4	10181.8	10161.6
52.5°	10718.9	10732.3	10883.9	10988.6	11091.1	11138.0	11184.8	11169.1	11171.4	11169.1	11149.2
55°	11561.5	11592.6	11744.3	11886.9	12065.2	12196.7	12276.9	12268.0	12248.0	12227.9	12194.4
57.5°	12510.9	12542.2	12716.0	12892.1	13094.9	13282.2	13444.9	13612.1	13676.7	13694.5	13621.1
60°	13794.8	13792.7	14024.4	14238.4	14528.2	14806.9	15163.4	15526.8	15943.5	16137.5	15881.2
62.5°	15101.0	15154.5	15488.8	15867.7	16465.2	17046.8	17704.4	18350.7	19010.6	19547.7	18977.1
65°	14944.9	15150.0	15647.1	16505.2	17608.5	18919.2	20336.8	21836.8	23192.0	24123.7	23078.3
67.5°	12952.3	13244.3	13750.3	14793.3	16173.1	18063.3	20443.7	23410.4	26858.5	28525.9	26459.7
70°	9388.2	9718.2	10248.6	11267.3	12633.5	14430.1	17015.6	20577.5	25142.3	26822.9	24547.2
72.5°	4671.8	4850.1	5177.8	5826.5	6860.6	8318.4	10663.1	14086.8	18125.7	19668.1	17588.4
75°	1587.0	1669.5	1725.2	1936.9	2264.6	2837.5	4003.2	6158.5	9394.9	11262.8	9261.3
77.5°	916.1	918.4	956.2	994.1	1049.9	1112.3	1268.3	1665.0	2879.7	4090.1	2980.0
80°	592.8	590.6	621.9	650.8	688.8	719.9	728.9	771.3	889.4	1054.3	942.8
82.5°	307.6	345.5	414.5	452.5	523.8	537.1	519.3	503.6	532.7	552.8	566.2
85°	169.4	147.1	220.7	285.2	316.6	321.0	321.0	303.0	314.2	307.6	334.4
87.5°	78.0	71.3	87.0	140.4	149.3	127.1	133.8	118.1	84.6	82.5	93.6
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°	4830.2	4830.2	4830.2	4830.2	4830.2	4830.2	4830.2	4830.2
2.5°	4807.9	4810.0	4810.0	4816.7	4819.0	4823.4	4827.8	4830.2
5°	4769.9	4776.6	4772.1	4778.8	4778.8	4783.3	4783.3	4785.5
7.5°	4714.2	4720.9	4720.9	4720.9	4718.7	4725.4	4725.4	4725.4
10°	4656.2	4660.7	4658.5	4654.0	4649.5	4656.2	4654.0	4651.8
12.5°	4638.4	4627.2	4618.4	4613.9	4604.9	4607.3	4600.5	4600.5
15°	4649.5	4629.6	4613.9	4607.3	4598.2	4593.8	4589.3	4591.6
17.5°	4678.5	4654.0	4633.9	4622.8	4611.7	4604.9	4596.1	4598.2
20°	4729.9	4700.8	4671.8	4649.5	4629.6	4618.4	4611.7	4609.4
22.5°	4805.6	4763.2	4720.9	4687.4	4660.7	4645.0	4638.4	4633.9
25°	4892.5	4845.6	4796.7	4758.8	4732.0	4712.0	4698.5	4698.5
27.5°	5001.7	4963.8	4919.3	4874.7	4850.1	4830.2	4821.2	4816.7
30°	5184.5	5148.9	5113.2	5070.8	5039.6	5019.6	5004.0	4990.5
32.5°	5418.5	5389.5	5360.6	5329.3	5300.3	5273.6	5249.2	5238.0
35°	5748.4	5726.2	5706.1	5670.4	5659.3	5643.7	5630.2	5619.1
37.5°	6203.0	6194.2	6194.2	6156.3	6147.4	6140.7	6127.4	6129.6
40°	6800.6	6809.4	6798.2	6784.9	6778.2	6760.3	6760.3	6775.9
42.5°	7506.9	7513.8	7538.3	7516.0	7540.4	7518.1	7504.8	7516.0
45°	8327.3	8351.8	8400.8	8378.5	8394.2	8356.2	8309.5	8311.7
47.5°	9247.8	9270.1	9290.2	9274.6	9276.7	9214.4	9152.0	9136.4
50°	10204.0	10213.0	10224.2	10201.9	10206.2	10137.2	10065.8	10068.0
52.5°	11149.2	11191.4	11236.0	11175.8	11162.5	11084.5	10984.2	10944.1
55°	12230.2	12290.3	12239.0	12134.4	12029.6	11924.8	11793.2	11770.9
57.5°	13563.0	13460.5	13300.0	13101.6	12956.7	12809.7	12675.9	12620.2
60°	15417.5	15031.9	14742.2	14447.9	14262.9	14082.4	13906.3	13879.5
62.5°	18038.7	17372.3	16795.0	16186.5	15689.4	15301.6	14991.8	14904.8
65°	21324.1	19748.3	18382.0	17107.0	15999.3	15163.4	14637.4	14405.7
67.5°	22737.3	19625.7	17283.0	15473.2	14024.4	13012.4	12444.1	12161.0
70°	19980.1	16275.7	13728.0	11915.9	10596.3	9517.6	9002.6	8699.6
72.5°	13745.8	10353.4	8186.9	6682.3	5628.1	4725.4	4368.7	4342.0
75°	6171.9	4087.8	2817.4	2171.0	1827.7	1589.1	1515.7	1459.9
77.5°	1727.4	1277.1	1139.0	1065.4	994.1	911.7	880.4	887.0
80°	840.3	793.6	762.3	715.5	650.8	581.7	550.5	563.9
82.5°	557.2	550.5	570.6	537.1	443.6	376.7	316.6	289.7
85°	338.8	343.3	349.9	352.2	298.8	209.6	142.7	160.5
87.5°	133.8	153.8	167.1	173.8	162.7	100.3	80.2	82.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)