

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: P192557

Luminaire Tested: **GLEON-AF-09-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192557
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-09-LED-E1-5MQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 54065.8 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - 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

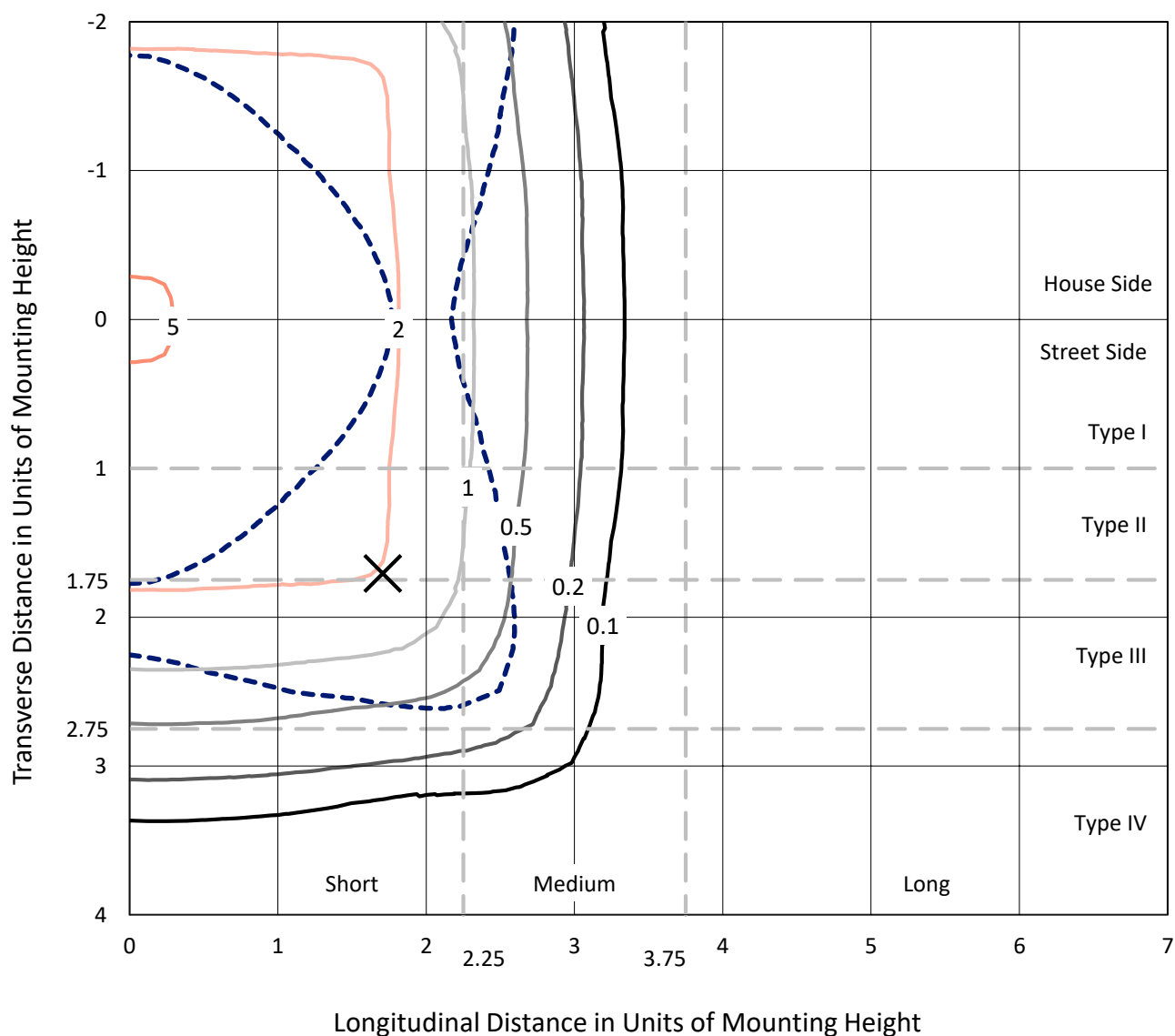


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

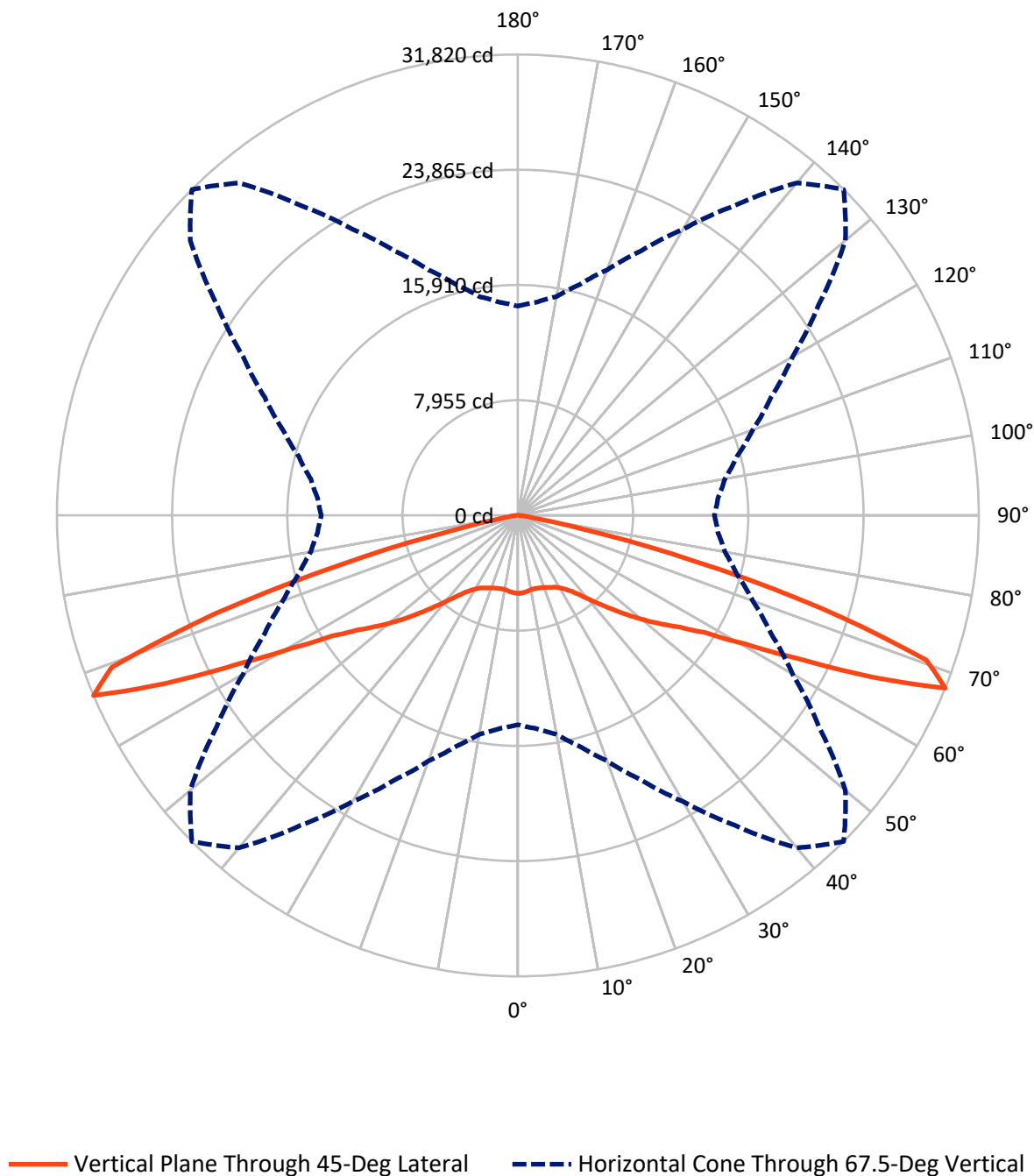


Based on 30 foot mounting height. Maximum calculated value = 6 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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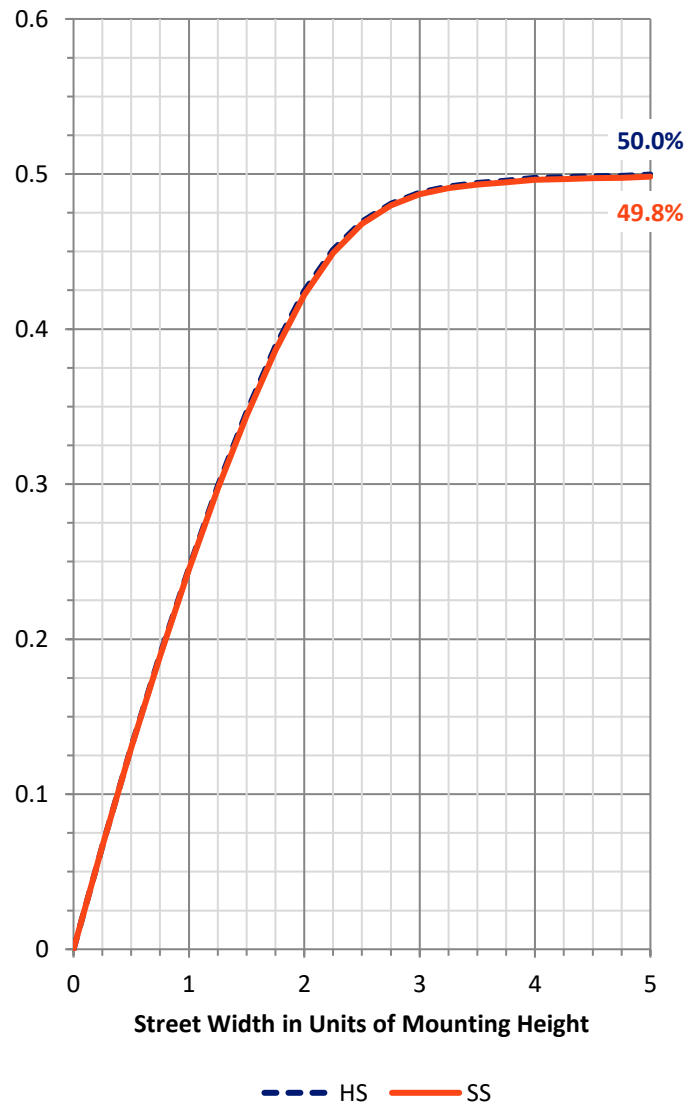
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27032.9	0.0	27032.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27032.9	0.0	27032.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	54065.8	0.0	54065.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.3	0.9
10°-20°	1463.3	2.7
20°-30°	2487.6	4.6
30°-40°	4066.5	7.5
40°-50°	7259.5	13.4
50°-60°	12239.7	22.6
60°-70°	18994.1	35.1
70°-80°	6673.7	12.3
80°-90°	377.1	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°	54065.8	100.0
0°-180°	54065.8	100.0

Coefficient of Utilization



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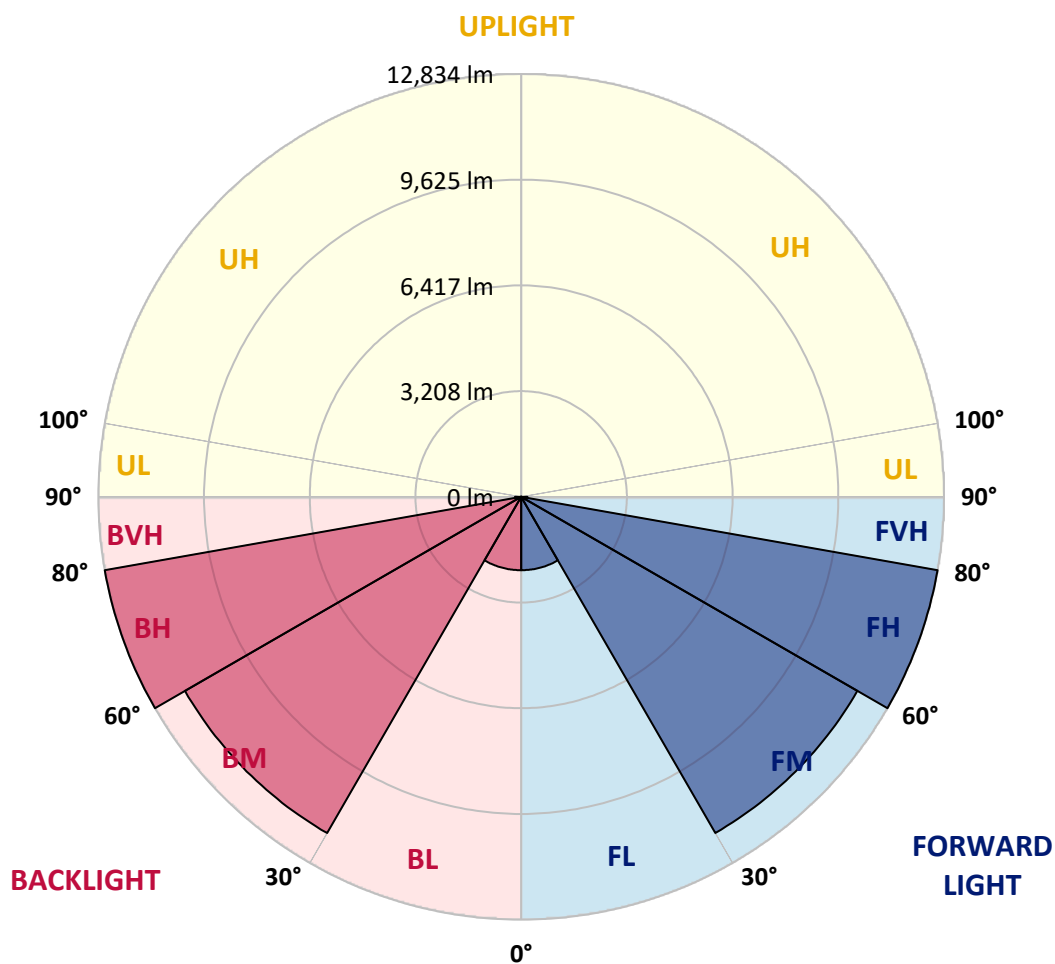
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2227.6	4.1			
FM	(30°-60°)	11782.8	21.8			
FH	(60°-80°)	12833.9	23.7			G5
FVH	(80°-90°)	188.6	0.3			G2/225
BL	(0°-30°)	2227.6	4.1	B3/2500		
BM	(30°-60°)	11782.8	21.8	B5		
BH	(60°-80°)	12833.9	23.7	B5		G5
BVH	(80°-90°)	188.6	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°	5387.9	5387.9	5387.9	5387.9	5387.9	5387.9	5387.9	5387.9	5387.9	5387.9	5387.9
2.5°	5368.0	5373.0	5373.0	5373.0	5370.5	5370.5	5365.5	5370.5	5368.0	5360.6	5363.0
5°	5323.2	5328.2	5328.2	5325.8	5333.2	5330.6	5323.2	5328.2	5325.8	5320.7	5323.2
7.5°	5258.6	5266.1	5266.1	5263.6	5271.0	5268.6	5263.6	5266.1	5266.1	5258.6	5258.6
10°	5186.5	5191.5	5191.5	5188.9	5201.4	5201.4	5198.9	5206.4	5208.8	5201.4	5196.5
12.5°	5119.4	5126.8	5126.8	5136.9	5149.2	5154.2	5166.7	5176.6	5186.5	5184.1	5174.1
15°	5079.6	5084.6	5094.5	5106.9	5126.8	5144.3	5164.1	5186.5	5206.4	5211.3	5196.5
17.5°	5054.8	5062.2	5077.1	5094.5	5121.8	5151.7	5181.5	5211.3	5238.8	5248.7	5231.3
20°	5047.2	5052.2	5067.1	5097.0	5134.3	5179.0	5221.3	5256.1	5293.4	5305.8	5293.4
22.5°	5062.2	5072.2	5089.6	5124.4	5174.1	5231.3	5280.9	5328.2	5375.4	5397.9	5380.5
25°	5129.2	5139.2	5161.6	5206.4	5261.1	5320.7	5378.0	5432.7	5474.9	5497.3	5484.9
27.5°	5253.6	5266.1	5293.4	5338.2	5397.9	5462.5	5524.5	5569.4	5604.2	5611.7	5596.7
30°	5440.1	5467.5	5499.8	5549.5	5619.1	5673.9	5736.0	5775.8	5818.0	5818.0	5805.6
32.5°	5730.9	5758.4	5793.2	5840.5	5895.1	5954.7	6009.5	6044.3	6089.0	6091.5	6061.7
35°	6166.1	6178.5	6208.3	6238.2	6288.0	6340.2	6387.4	6409.8	6447.1	6449.6	6422.3
37.5°	6740.4	6742.9	6762.8	6772.8	6817.6	6874.7	6919.5	6934.3	6969.2	6964.1	6936.9
40°	7409.3	7421.8	7429.2	7444.1	7491.4	7546.0	7593.3	7600.7	7638.0	7630.5	7595.7
42.5°	8182.5	8187.5	8229.7	8252.2	8296.9	8324.3	8383.9	8391.3	8436.1	8416.2	8376.5
45°	9050.3	9095.1	9134.8	9179.5	9226.8	9259.0	9306.3	9296.5	9326.3	9296.5	9274.0
47.5°	9962.7	9995.0	10084.6	10154.2	10231.2	10258.6	10325.8	10295.9	10325.8	10283.5	10276.1
50°	10967.2	11024.4	11101.5	11181.0	11263.1	11307.9	11394.8	11357.6	11397.4	11357.6	11335.2
52.5°	11956.8	11971.7	12140.8	12257.7	12372.0	12424.2	12476.5	12459.1	12461.6	12459.1	12436.7
55°	12896.6	12931.4	13100.5	13259.6	13458.5	13605.2	13694.8	13684.8	13662.5	13640.0	13602.8
57.5°	13955.8	13990.6	14184.6	14380.9	14607.2	14816.1	14997.6	15184.1	15256.2	15276.1	15194.0
60°	15388.0	15385.5	15644.1	15882.7	16206.0	16516.7	16914.5	17319.8	17784.7	18001.1	17715.2
62.5°	16844.9	16904.6	17277.5	17700.2	18366.6	19015.5	19748.9	20470.0	21205.9	21805.2	21168.7
65°	16670.9	16899.6	17454.0	18411.3	19642.1	21104.0	22685.3	24358.6	25870.3	26909.6	25743.5
67.5°	14448.1	14773.8	15338.3	16501.9	18040.9	20149.3	22804.7	26113.9	29960.3	31820.1	29515.3
70°	10472.5	10840.3	11432.2	12568.4	14092.6	16096.5	18980.7	22953.8	28045.9	29920.5	27382.0
72.5°	5211.3	5410.3	5775.8	6499.3	7652.9	9279.0	11894.6	15713.6	20218.9	21939.5	19619.6
75°	1770.2	1862.3	1924.4	2160.6	2526.1	3165.1	4465.4	6869.7	10479.9	12563.5	10330.7
77.5°	1021.9	1024.5	1066.6	1108.9	1171.0	1240.6	1414.7	1857.3	3212.3	4562.4	3324.2
80°	661.3	658.9	693.7	726.0	768.3	803.0	813.0	860.3	992.1	1176.0	1051.7
82.5°	343.1	385.3	462.5	504.8	584.3	599.2	579.3	561.9	594.3	616.7	631.5
85°	188.9	164.1	246.2	318.3	353.0	358.1	358.1	338.1	350.6	343.1	372.9
87.5°	87.0	79.5	96.9	156.7	166.6	141.7	149.1	131.7	94.5	92.0	104.5
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°	5387.9	5387.9	5387.9	5387.9	5387.9	5387.9	5387.9	5387.9
2.5°	5363.0	5365.5	5365.5	5373.0	5375.4	5380.5	5385.4	5387.9
5°	5320.7	5328.2	5323.2	5330.6	5330.6	5335.6	5335.6	5338.2
7.5°	5258.6	5266.1	5266.1	5266.1	5263.6	5271.0	5271.0	5271.0
10°	5193.9	5198.9	5196.5	5191.5	5186.5	5193.9	5191.5	5188.9
12.5°	5174.1	5161.6	5151.7	5146.7	5136.9	5139.2	5131.8	5131.8
15°	5186.5	5164.1	5146.7	5139.2	5129.2	5124.4	5119.4	5121.8
17.5°	5218.8	5191.5	5169.0	5156.7	5144.3	5136.9	5126.8	5129.2
20°	5276.0	5243.7	5211.3	5186.5	5164.1	5151.7	5144.3	5141.7
22.5°	5360.6	5313.3	5266.1	5228.7	5198.9	5181.5	5174.1	5169.0
25°	5457.5	5405.3	5350.7	5308.4	5278.6	5256.1	5241.1	5241.1
27.5°	5579.4	5537.0	5487.3	5437.7	5410.3	5387.9	5378.0	5373.0
30°	5783.2	5743.4	5703.7	5656.5	5621.6	5599.2	5581.8	5566.9
32.5°	6044.3	6012.0	5979.6	5944.8	5912.4	5882.6	5855.3	5842.8
35°	6412.2	6387.4	6365.0	6325.2	6312.8	6295.4	6280.4	6268.1
37.5°	6919.5	6909.5	6909.5	6867.3	6857.3	6849.9	6834.9	6837.5
40°	7585.8	7595.7	7583.3	7568.4	7561.0	7541.1	7541.1	7558.4
42.5°	8373.9	8381.4	8408.8	8383.9	8411.4	8386.4	8371.5	8383.9
45°	9289.0	9316.3	9370.9	9346.1	9363.5	9321.2	9269.0	9271.5
47.5°	10315.8	10340.7	10363.0	10345.6	10348.2	10278.6	10208.8	10191.4
50°	11382.4	11392.4	11404.8	11380.0	11385.0	11307.9	11228.2	11230.8
52.5°	12436.7	12483.9	12533.5	12466.5	12451.6	12364.6	12252.7	12207.9
55°	13642.5	13709.7	13652.5	13535.6	13418.7	13301.9	13155.3	13130.3
57.5°	15129.3	15015.0	14836.0	14614.7	14453.1	14288.9	14139.8	14077.6
60°	17198.0	16767.8	16444.6	16116.4	15910.2	15708.6	15512.3	15482.4
62.5°	20122.0	19378.5	18734.5	18055.7	17501.3	17068.7	16723.1	16626.1
65°	23786.8	22029.0	20504.8	19082.6	17847.0	16914.5	16327.8	16069.2
67.5°	25363.1	21892.2	19279.1	17260.1	15644.1	14515.2	13881.2	13565.4
70°	22287.5	18155.2	15313.3	13291.9	11820.0	10616.6	10042.3	9704.2
72.5°	15333.2	11549.0	9132.3	7454.0	6278.0	5271.0	4873.2	4843.4
75°	6884.7	4559.9	3142.8	2421.7	2038.8	1772.7	1690.7	1628.5
77.5°	1926.9	1424.6	1270.4	1188.5	1108.9	1016.8	982.1	989.6
80°	937.3	885.1	850.4	798.1	726.0	648.9	614.1	629.0
82.5°	621.5	614.1	636.6	599.2	494.8	420.2	353.0	323.2
85°	377.9	382.9	390.4	392.8	333.1	233.7	159.1	178.9
87.5°	149.1	171.5	186.5	193.9	181.5	111.9	89.5	92.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)