

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: P192757

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192757
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-09-LED-E1-RW-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 52609.4 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - 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



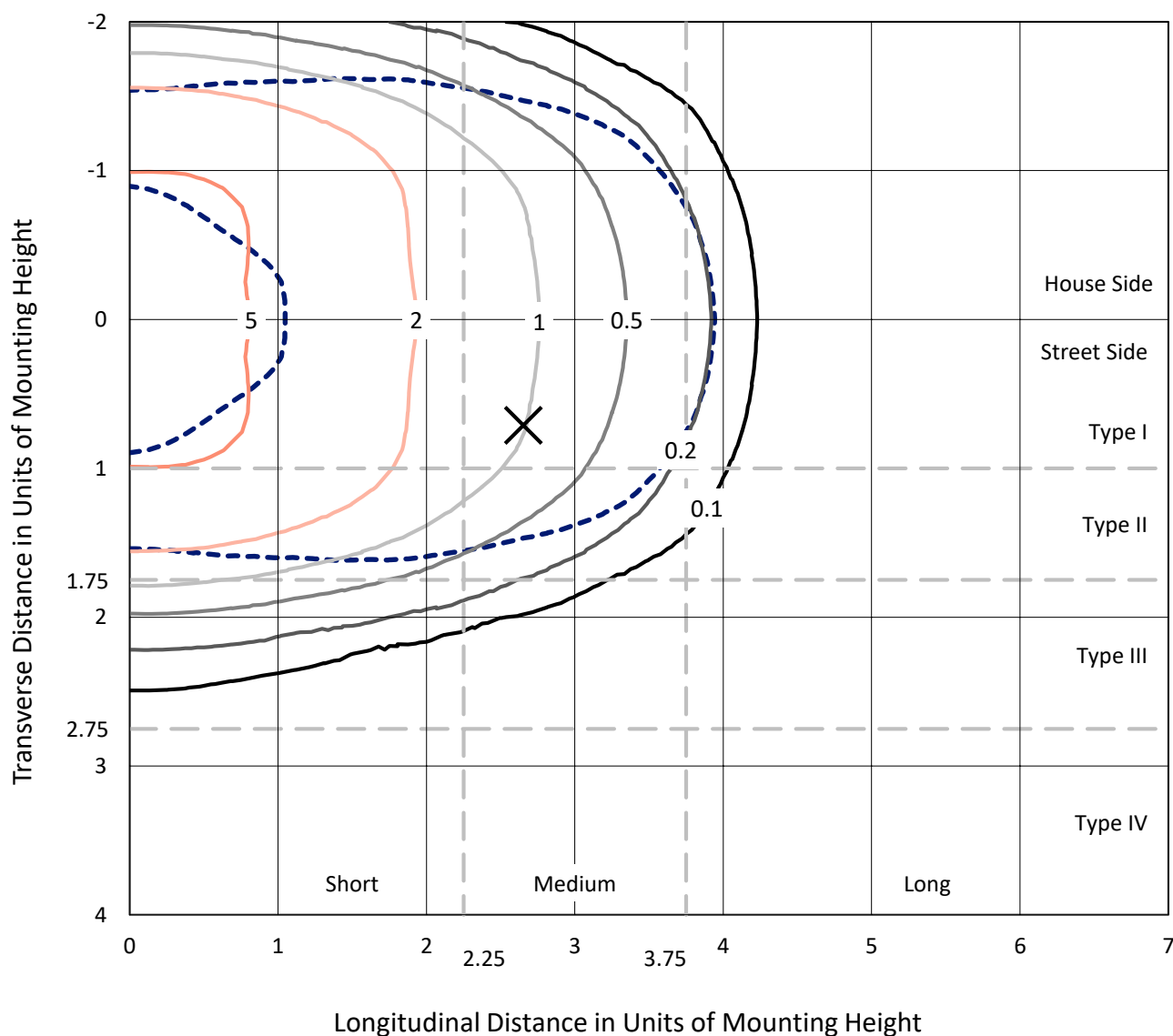
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

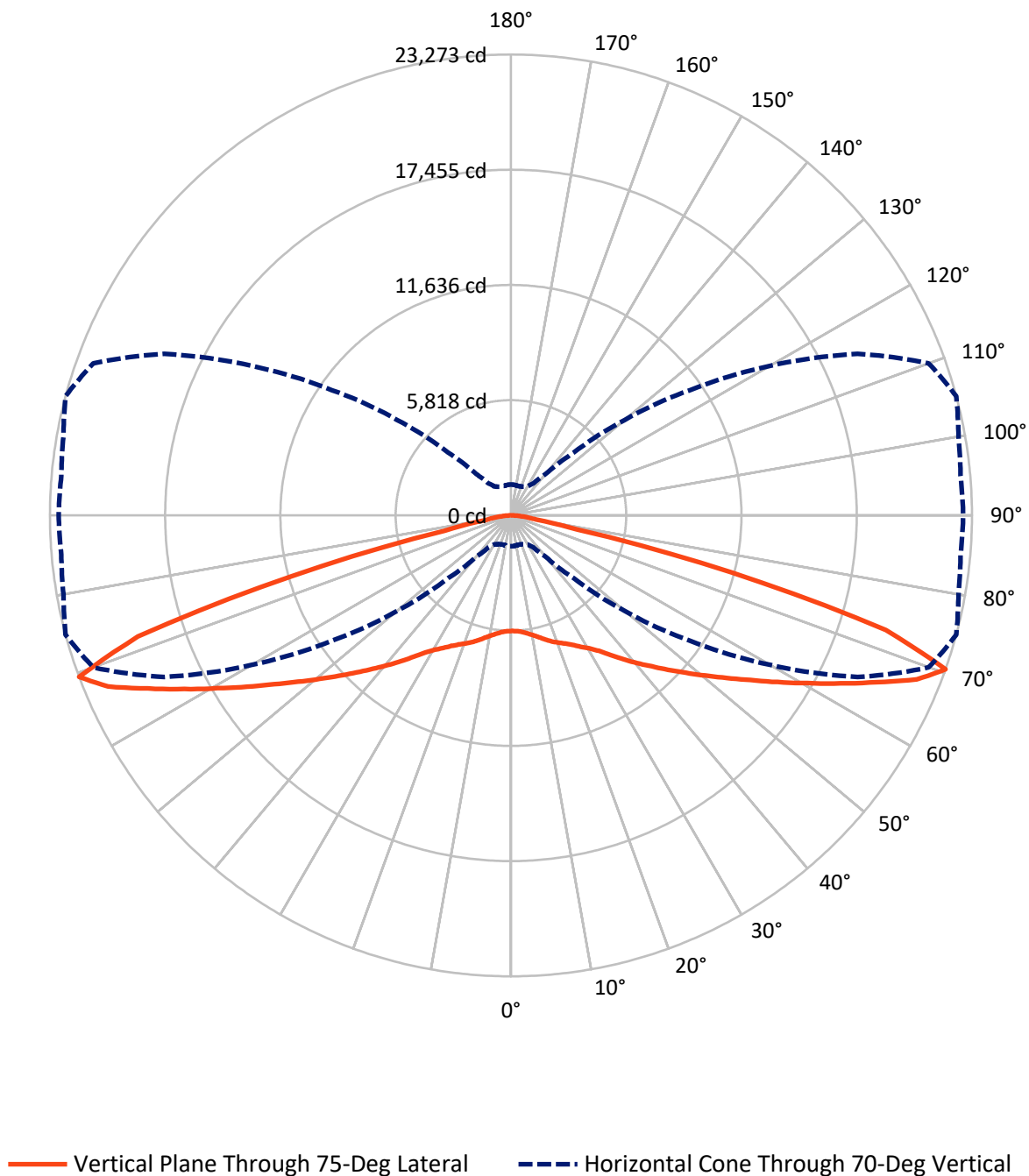


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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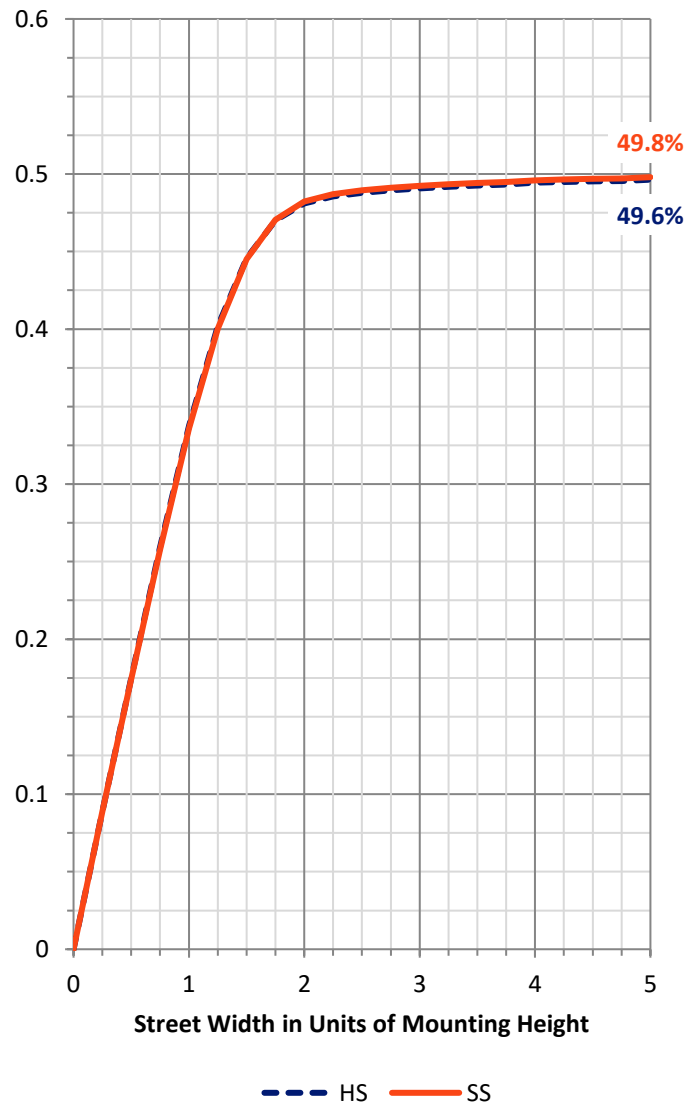
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26304.7	0.0	26304.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26304.7	0.0	26304.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	52609.4	0.0	52609.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.7	1.1
10°-20°	1739.0	3.3
20°-30°	3273.1	6.2
30°-40°	5796.0	11.0
40°-50°	9692.8	18.4
50°-60°	13506.9	25.7
60°-70°	12525.5	23.8
70°-80°	4991.8	9.5
80°-90°	524.7	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°	52609.4	100.0
0°-180°	52609.4	100.0

Coefficient of Utilization



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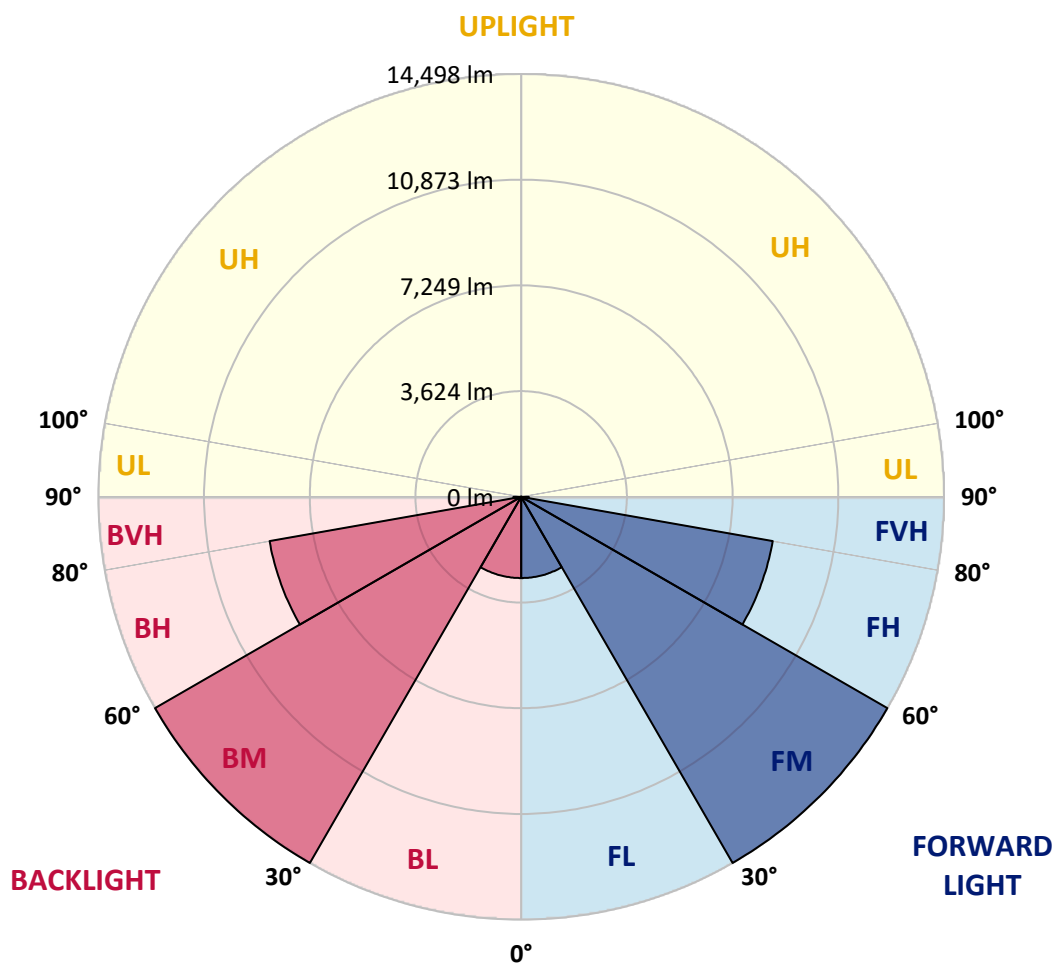
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2785.9	5.3			
FM	(30°-60°)	14497.8	27.6			
FH	(60°-80°)	8758.6	16.6			G4/12000
FVH	(80°-90°)	262.4	0.5			G3/500
BL	(0°-30°)	2785.9	5.3	B4/5000		
BM	(30°-60°)	14497.8	27.6	B5		
BH	(60°-80°)	8758.6	16.6	B5		G5
BVH	(80°-90°)	262.4	0.5			G3/500
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°	5835.6	5835.6	5835.6	5835.6	5835.6	5835.6	5835.6	5835.6	5835.6	5835.6	5835.6
2.5°	5825.7	5820.7	5825.7	5823.2	5828.1	5828.1	5833.2	5843.0	5843.0	5850.5	5848.0
5°	5768.5	5765.9	5773.5	5780.9	5788.3	5803.3	5818.2	5840.6	5857.9	5870.4	5882.8
7.5°	5656.6	5656.6	5666.5	5684.0	5701.3	5733.7	5768.5	5813.2	5857.9	5895.3	5927.7
10°	5564.6	5569.6	5581.9	5611.9	5641.7	5691.5	5738.7	5803.3	5865.5	5927.7	5977.3
12.5°	5510.0	5517.4	5539.8	5584.5	5634.2	5701.3	5773.5	5855.5	5925.1	5999.8	6049.4
15°	5527.3	5532.3	5564.6	5619.3	5684.0	5768.5	5865.5	5962.4	6044.4	6124.0	6191.1
17.5°	5624.2	5631.8	5669.0	5731.2	5798.3	5897.9	6002.1	6111.6	6213.6	6303.0	6385.1
20°	5798.3	5805.8	5853.0	5920.1	5999.8	6101.7	6206.0	6320.4	6434.9	6529.4	6621.3
22.5°	6044.4	6056.9	6101.7	6168.8	6258.3	6367.7	6492.0	6613.9	6723.3	6810.2	6892.3
25°	6367.7	6395.1	6437.3	6512.0	6606.4	6705.9	6840.1	6964.4	7068.8	7150.9	7210.6
27.5°	6825.2	6862.5	6894.8	6966.9	7058.9	7153.4	7287.7	7397.1	7496.5	7576.1	7620.9
30°	7432.0	7469.2	7501.5	7571.1	7655.7	7745.2	7872.0	7969.0	8031.1	8093.3	8090.7
32.5°	8167.9	8207.7	8220.1	8294.6	8381.8	8478.6	8593.0	8647.8	8697.5	8704.9	8660.2
35°	8990.8	9010.7	9060.6	9160.0	9259.4	9338.9	9448.4	9475.7	9475.7	9438.5	9338.9
37.5°	9893.4	9905.9	9975.5	10087.4	10189.3	10271.4	10346.0	10400.7	10373.3	10293.8	10127.1
40°	10883.0	10905.3	11004.8	11104.3	11218.7	11295.8	11375.3	11385.3	11357.9	11241.0	11014.9
42.5°	11827.9	11847.7	11947.2	12103.8	12253.0	12360.0	12434.6	12449.4	12362.4	12255.5	11974.6
45°	12641.0	12693.0	12822.4	13006.4	13222.8	13374.4	13476.4	13518.6	13441.5	13302.4	12976.6
47.5°	13285.0	13337.2	13521.2	13739.9	14008.4	14254.6	14423.7	14513.2	14493.4	14388.9	14033.4
50°	13757.3	13807.1	14006.0	14274.5	14587.7	14893.5	15182.0	15395.8	15470.4	15423.2	15097.6
52.5°	13812.0	13894.1	14127.8	14488.4	14896.1	15313.8	15724.0	16087.2	16333.2	16370.6	16129.4
55°	13048.8	13130.8	13453.9	13988.6	14595.3	15276.5	15933.0	16544.6	17029.4	17278.0	17151.3
57.5°	11248.6	11395.2	11735.9	12362.4	13255.2	14274.5	15321.3	16407.8	17394.9	18053.9	18180.6
60°	8620.4	8794.5	9137.6	9804.0	10798.5	12014.3	13411.7	15017.9	16760.9	18242.8	19128.0
62.5°	5529.8	5693.9	6054.4	6633.7	7444.3	8762.1	10261.4	12168.5	14510.7	16850.4	18958.8
65°	2842.0	2931.5	3120.5	3471.0	4102.5	5087.2	6432.3	8334.4	11012.4	13899.1	16947.4
67.5°	1800.1	1817.5	1859.8	1909.6	2071.2	2411.8	3038.4	4224.4	6427.4	9438.5	13006.4
70°	1556.5	1556.5	1536.6	1529.2	1549.1	1596.3	1693.3	1969.3	2712.7	4480.5	7501.5
72.5°	1424.7	1409.8	1375.0	1347.6	1342.7	1342.7	1362.6	1404.8	1524.1	1825.0	2936.5
75°	1312.9	1270.5	1223.2	1191.0	1178.6	1166.2	1163.6	1171.1	1196.0	1243.3	1402.4
77.5°	1176.0	1121.3	1066.7	1034.3	1019.4	1002.0	987.1	969.6	957.2	972.2	1041.8
80°	1012.0	949.8	907.5	887.6	872.8	847.9	815.5	785.7	758.4	753.4	795.6
82.5°	815.5	743.4	745.9	753.4	726.0	691.2	656.4	624.1	576.9	552.0	576.9
85°	659.0	621.5	604.2	651.4	611.7	559.4	504.8	447.5	373.0	313.2	340.7
87.5°	256.1	256.1	383.0	589.2	529.6	432.6	370.5	315.8	196.4	151.7	154.2
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°	5835.6	5835.6	5835.6	5835.6	5835.6	5835.6	5835.6	5835.6
2.5°	5845.6	5850.5	5848.0	5845.6	5845.6	5843.0	5845.6	5845.6
5°	5890.2	5902.7	5902.7	5907.7	5907.7	5910.2	5912.7	5910.2
7.5°	5957.5	5979.9	5994.7	6012.1	6014.6	6017.1	6022.1	6017.1
10°	6024.5	6069.4	6101.7	6134.1	6148.9	6153.9	6158.8	6158.8
12.5°	6109.1	6171.3	6228.5	6285.6	6313.0	6328.0	6328.0	6337.9
15°	6248.3	6310.5	6377.7	6454.7	6502.0	6526.8	6534.2	6534.2
17.5°	6444.7	6499.5	6556.6	6631.3	6690.9	6723.3	6730.7	6728.1
20°	6673.5	6725.8	6758.1	6805.3	6857.5	6894.8	6904.7	6904.7
22.5°	6934.5	6964.4	6969.4	6984.3	7026.6	7076.2	7098.7	7103.7
25°	7223.0	7230.4	7210.6	7210.6	7238.0	7285.2	7307.6	7310.1
27.5°	7596.0	7558.7	7509.0	7491.6	7509.0	7563.7	7591.0	7600.9
30°	8060.9	7971.4	7857.1	7794.9	7784.9	7857.1	7906.8	7914.3
32.5°	8593.0	8463.8	8312.1	8185.2	8152.9	8197.7	8257.4	8254.9
35°	9224.5	9070.4	8886.5	8724.8	8650.3	8695.0	8779.5	8789.5
37.5°	9953.1	9751.7	9540.4	9336.5	9219.7	9232.1	9321.6	9351.4
40°	10766.2	10505.1	10239.0	9965.5	9798.9	9766.5	9876.1	9893.4
42.5°	11636.4	11300.8	10965.0	10626.9	10413.1	10363.4	10490.2	10482.8
45°	12563.8	12136.2	11743.3	11370.4	11116.8	11042.2	11146.6	11146.6
47.5°	13560.9	13033.7	12566.4	12143.6	11867.6	11760.7	11860.2	11867.6
50°	14617.6	14058.2	13508.7	13038.8	12708.1	12571.3	12700.7	12720.5
52.5°	15669.4	15124.9	14570.4	14033.4	13633.1	13466.4	13615.6	13680.3
55°	16736.0	16201.5	15671.8	15147.2	14672.3	14475.9	14635.1	14717.1
57.5°	17862.4	17367.7	16862.8	16333.2	15875.7	15569.9	15739.1	15848.4
60°	19182.6	18760.1	18235.4	17651.1	17188.5	16877.9	16974.7	17071.8
62.5°	20226.9	20391.0	19946.1	19269.7	18675.4	18277.7	18372.1	18474.1
65°	19722.3	21405.5	21800.8	21117.1	20294.2	19675.0	19635.2	19687.4
67.5°	16484.9	19754.5	22138.9	22790.5	22101.7	21241.4	21082.3	21159.3
70°	11027.2	15099.9	19306.9	22439.8	23272.9	22939.6	22783.0	22830.3
72.5°	5296.1	8794.5	13098.4	17263.2	19799.3	20962.9	21335.9	21517.4
75°	1936.9	3491.0	6313.0	9512.9	11484.8	13294.8	14475.9	14958.2
77.5°	1168.6	1409.8	2016.5	3035.9	3438.7	3848.9	3689.8	3769.5
80°	865.3	977.3	1106.5	1243.3	1287.9	1287.9	1238.2	1198.5
82.5°	606.7	678.8	741.0	815.5	835.4	798.1	656.4	522.1
85°	390.4	422.8	450.0	497.2	484.9	462.5	310.9	276.0
87.5°	179.0	203.9	213.8	236.2	226.2	216.4	154.2	129.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)