

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: P192767

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192767
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57712.9 lumens
Efficiency: N/A
Efficacy: 100.4 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): 575
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

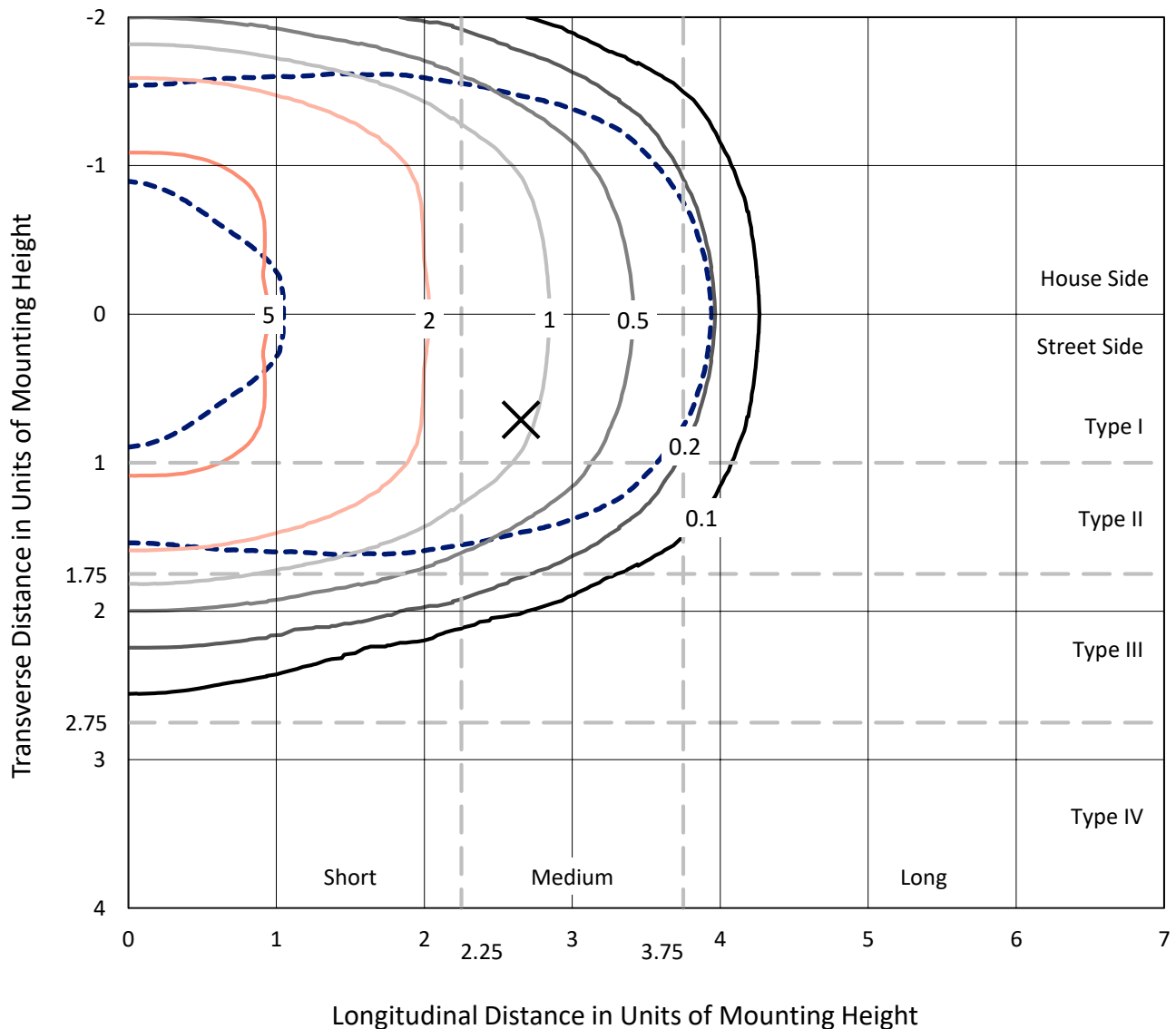


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

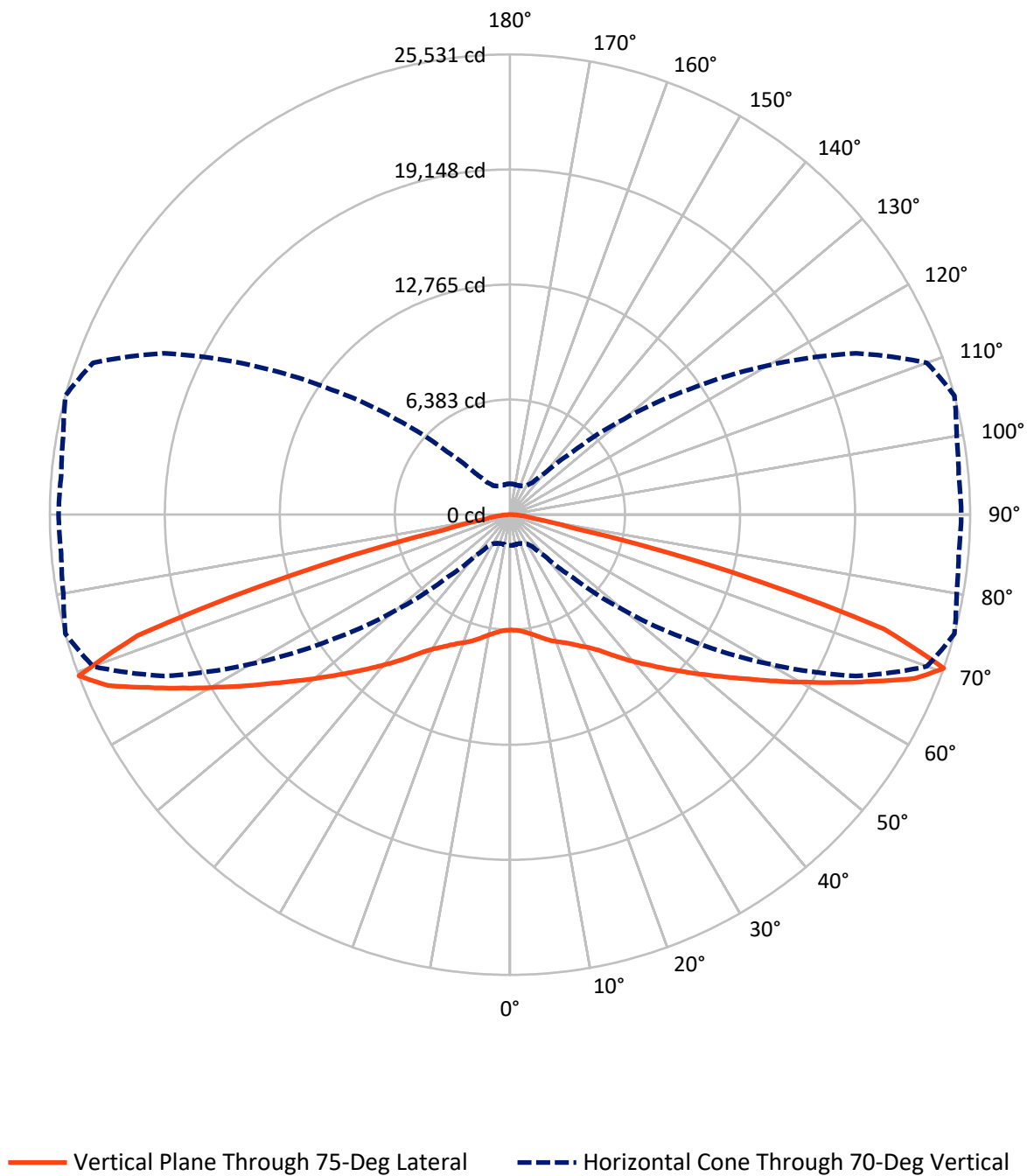


Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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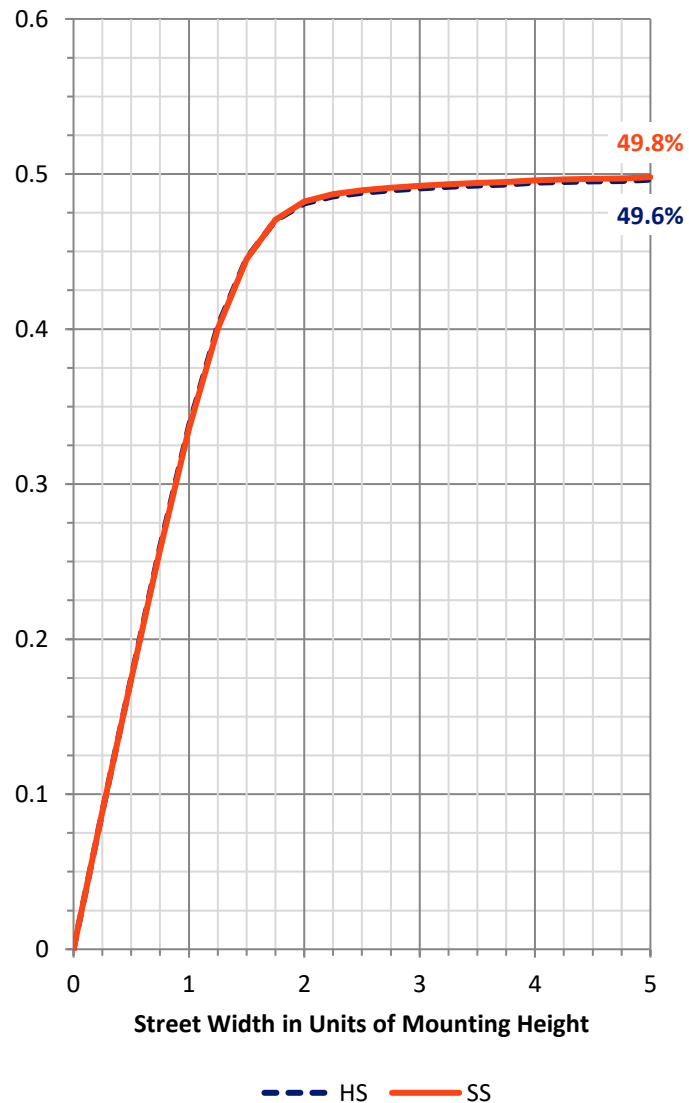
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28856.5	0.0	28856.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28856.5	0.0	28856.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	57712.9	0.0	57712.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.0	1.1
10°-20°	1907.7	3.3
20°-30°	3590.6	6.2
30°-40°	6358.3	11.0
40°-50°	10633.0	18.4
50°-60°	14817.2	25.7
60°-70°	13740.5	23.8
70°-80°	5476.0	9.5
80°-90°	575.6	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°	57712.9	100.0
0°-180°	57712.9	100.0

Coefficient of Utilization



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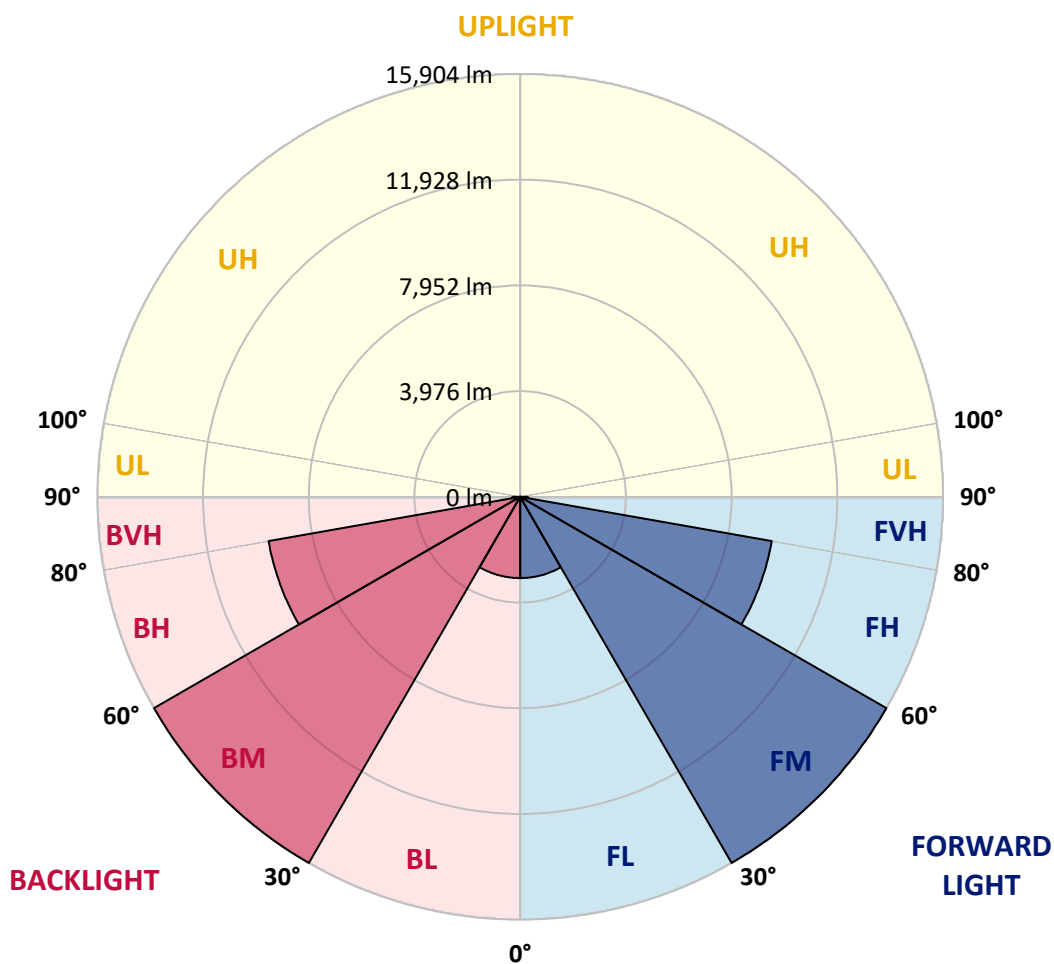
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3056.1	5.3			
FM	(30°-60°)	15904.2	27.6			
FH	(60°-80°)	9608.3	16.6			G4/12000
FVH	(80°-90°)	287.8	0.5			G3/500
BL	(0°-30°)	3056.1	5.3	B4/5000		
BM	(30°-60°)	15904.2	27.6	B5		
BH	(60°-80°)	9608.3	16.6	B5		G5
BVH	(80°-90°)	287.8	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°	6401.7	6401.7	6401.7	6401.7	6401.7	6401.7	6401.7	6401.7	6401.7	6401.7	6401.7
2.5°	6390.8	6385.3	6390.8	6388.1	6393.6	6393.6	6399.0	6409.9	6409.9	6418.1	6415.3
5°	6328.1	6325.3	6333.5	6341.7	6349.9	6366.2	6382.6	6407.2	6426.3	6439.8	6453.5
7.5°	6205.3	6205.3	6216.2	6235.3	6254.4	6289.8	6328.1	6377.1	6426.3	6467.2	6502.7
10°	6104.5	6109.9	6123.6	6156.2	6189.0	6243.5	6295.3	6366.2	6434.4	6502.7	6557.2
12.5°	6044.4	6052.5	6077.1	6126.1	6180.8	6254.4	6333.5	6423.6	6500.0	6581.8	6636.3
15°	6063.5	6069.0	6104.5	6164.4	6235.3	6328.1	6434.4	6540.8	6630.8	6718.2	6791.8
17.5°	6169.9	6178.1	6218.9	6287.1	6360.7	6469.9	6584.5	6704.4	6816.3	6914.5	7004.5
20°	6360.7	6368.9	6420.8	6494.5	6581.8	6693.6	6808.2	6933.6	7059.0	7162.7	7263.7
22.5°	6630.8	6644.5	6693.6	6767.2	6865.5	6985.4	7121.8	7255.5	7375.4	7470.9	7561.0
25°	6985.4	7015.4	7061.8	7143.6	7247.2	7356.4	7503.7	7640.1	7754.5	7844.6	7910.1
27.5°	7487.3	7528.2	7563.7	7642.8	7743.6	7847.3	7994.6	8114.6	8223.7	8311.1	8360.1
30°	8152.8	8193.8	8229.2	8305.6	8398.3	8496.5	8635.7	8742.1	8810.2	8878.4	8875.6
32.5°	8960.3	9003.8	9017.5	9099.3	9194.8	9301.1	9426.7	9486.7	9541.2	9549.4	9500.3
35°	9863.1	9884.9	9939.5	10048.6	10157.7	10244.9	10364.9	10394.9	10394.9	10354.1	10244.9
37.5°	10853.2	10866.8	10943.2	11065.9	11177.8	11267.8	11349.7	11409.6	11379.6	11292.3	11109.6
40°	11938.8	11963.4	12072.4	12181.6	12307.0	12391.5	12478.8	12489.8	12459.7	12331.5	12083.3
42.5°	12975.3	12997.1	13106.2	13278.1	13441.7	13559.0	13640.8	13657.2	13561.7	13444.4	13136.1
45°	13867.1	13924.4	14066.2	14268.1	14505.5	14671.9	14783.7	14830.1	14745.5	14592.7	14235.4
47.5°	14573.6	14630.9	14832.7	15072.8	15367.5	15637.4	15822.9	15921.0	15899.3	15784.6	15394.6
50°	15091.9	15146.4	15364.7	15659.2	16002.8	16338.4	16654.8	16889.4	16971.2	16919.4	16562.1
52.5°	15151.8	15241.8	15498.3	15893.8	16341.2	16799.3	17249.5	17647.7	17917.7	17958.6	17694.0
55°	14314.5	14404.5	14759.1	15345.6	16011.1	16758.4	17478.5	18149.5	18681.4	18954.2	18815.1
57.5°	12339.7	12500.7	12874.3	13561.7	14540.9	15659.2	16807.6	17999.5	19082.3	19805.2	19944.3
60°	9456.6	9647.6	10024.0	10754.9	11846.0	13179.8	14712.8	16474.7	18386.8	20012.5	20983.6
62.5°	6066.2	6246.3	6641.8	7277.3	8166.5	9612.1	11256.9	13349.0	15918.3	18485.0	20798.0
65°	3117.7	3215.8	3423.2	3807.8	4500.6	5580.8	7056.3	9143.0	12080.6	15247.3	18591.4
67.5°	1974.8	1993.9	2040.3	2094.8	2272.1	2645.8	3333.2	4634.2	7050.8	10354.1	14268.1
70°	1707.5	1707.5	1685.7	1677.4	1699.3	1751.1	1857.5	2160.3	2975.7	4915.1	8229.2
72.5°	1563.0	1546.6	1508.4	1478.4	1473.0	1473.0	1494.7	1541.1	1672.0	2002.0	3221.3
75°	1440.1	1393.8	1342.0	1306.5	1292.9	1279.2	1276.4	1284.7	1311.9	1363.8	1538.4
77.5°	1290.2	1230.1	1170.1	1134.6	1118.3	1099.2	1082.9	1063.7	1050.1	1066.5	1142.9
80°	1110.2	1041.9	995.6	973.7	957.4	930.2	894.7	861.9	831.9	826.4	872.9
82.5°	894.7	815.5	818.3	826.4	796.5	758.3	720.1	684.6	632.8	605.6	632.8
85°	722.9	681.9	662.7	714.7	671.0	613.7	553.7	491.0	409.1	343.7	373.6
87.5°	280.9	280.9	420.1	646.5	580.9	474.6	406.5	346.5	215.5	166.4	169.2
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°	6401.7	6401.7	6401.7	6401.7	6401.7	6401.7	6401.7	6401.7
2.5°	6412.7	6418.1	6415.3	6412.7	6412.7	6409.9	6412.7	6412.7
5°	6461.7	6475.4	6475.4	6480.8	6480.8	6483.6	6486.2	6483.6
7.5°	6535.4	6559.9	6576.4	6595.3	6598.0	6600.8	6606.3	6600.8
10°	6609.0	6658.2	6693.6	6729.1	6745.3	6750.8	6756.3	6756.3
12.5°	6701.8	6769.9	6832.6	6895.4	6925.4	6941.8	6941.8	6952.7
15°	6854.5	6922.6	6996.3	7080.9	7132.7	7160.0	7168.2	7168.2
17.5°	7069.9	7129.9	7192.7	7274.6	7340.0	7375.4	7383.6	7380.9
20°	7320.9	7378.2	7413.7	7465.4	7522.7	7563.7	7574.6	7574.6
22.5°	7607.2	7640.1	7645.5	7662.0	7708.2	7762.8	7787.4	7792.8
25°	7923.7	7931.9	7910.1	7910.1	7940.1	7991.9	8016.5	8019.2
27.5°	8332.8	8291.9	8237.4	8218.3	8237.4	8297.3	8327.4	8338.3
30°	8842.9	8744.7	8619.3	8551.0	8540.1	8619.3	8673.8	8682.0
32.5°	9426.7	9284.8	9118.4	8979.3	8943.9	8992.9	9058.3	9055.6
35°	10119.5	9950.4	9748.4	9571.2	9489.3	9538.5	9631.2	9642.1
37.5°	10918.6	10697.7	10465.8	10242.2	10114.0	10127.7	10225.8	10258.6
40°	11810.6	11524.1	11232.3	10932.3	10749.5	10714.1	10834.0	10853.2
42.5°	12765.2	12397.0	12028.8	11657.9	11423.3	11368.7	11507.8	11499.6
45°	13782.6	13313.5	12882.5	12473.4	12195.2	12113.3	12227.9	12227.9
47.5°	14876.4	14298.1	13785.4	13321.7	13018.9	12901.7	13010.7	13018.9
50°	16035.7	15422.0	14819.2	14303.5	13940.8	13790.8	13932.6	13954.5
52.5°	17189.4	16592.1	15983.9	15394.6	14955.5	14772.7	14936.4	15007.3
55°	18359.6	17773.1	17192.2	16616.5	16095.6	15880.2	16054.8	16144.7
57.5°	19595.2	19052.4	18498.6	17917.7	17415.8	17080.3	17265.8	17385.8
60°	21043.6	20579.8	20004.3	19363.4	18856.0	18515.1	18621.4	18727.8
62.5°	22189.1	22369.2	21881.0	21139.1	20487.1	20050.7	20154.3	20266.2
65°	21635.4	23482.0	23915.8	23165.5	22262.7	21583.6	21539.9	21597.3
67.5°	18084.0	21670.9	24286.7	25001.2	24245.7	23302.0	23127.5	23212.0
70°	12096.9	16564.8	21179.9	24616.6	25530.5	25164.9	24993.2	25045.0
72.5°	5809.9	9647.6	14369.0	18937.8	21719.9	22996.6	23405.6	23604.8
75°	2124.8	3829.5	6925.4	10435.9	12598.8	14584.6	15880.2	16409.3
77.5°	1281.9	1546.6	2212.1	3330.4	3772.2	4222.4	4047.7	4135.0
80°	949.3	1072.0	1213.8	1363.8	1412.9	1412.9	1358.3	1314.7
82.5°	665.5	744.6	812.8	894.7	916.4	875.6	720.1	572.8
85°	428.2	463.7	493.8	545.5	531.9	507.3	341.0	302.7
87.5°	196.3	223.7	234.6	259.2	248.2	237.3	169.2	141.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)