

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: P194158

Luminaire Tested: **GLEON-AF-10-LED-E1-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194158
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-10-LED-E1-5MQ-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 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: 61893 lumens
Efficiency: N/A
Efficacy: 110.9 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): 558
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



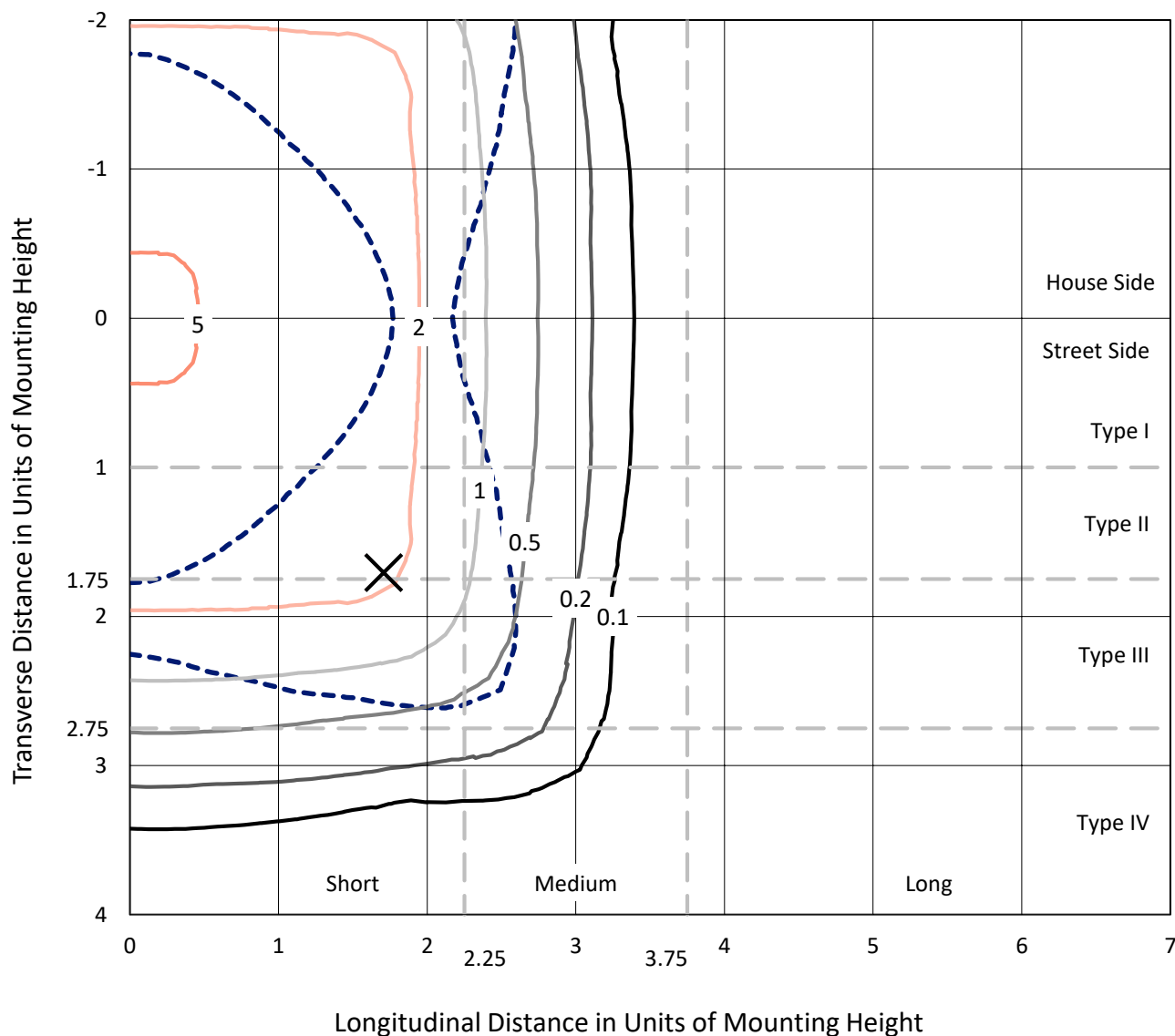
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

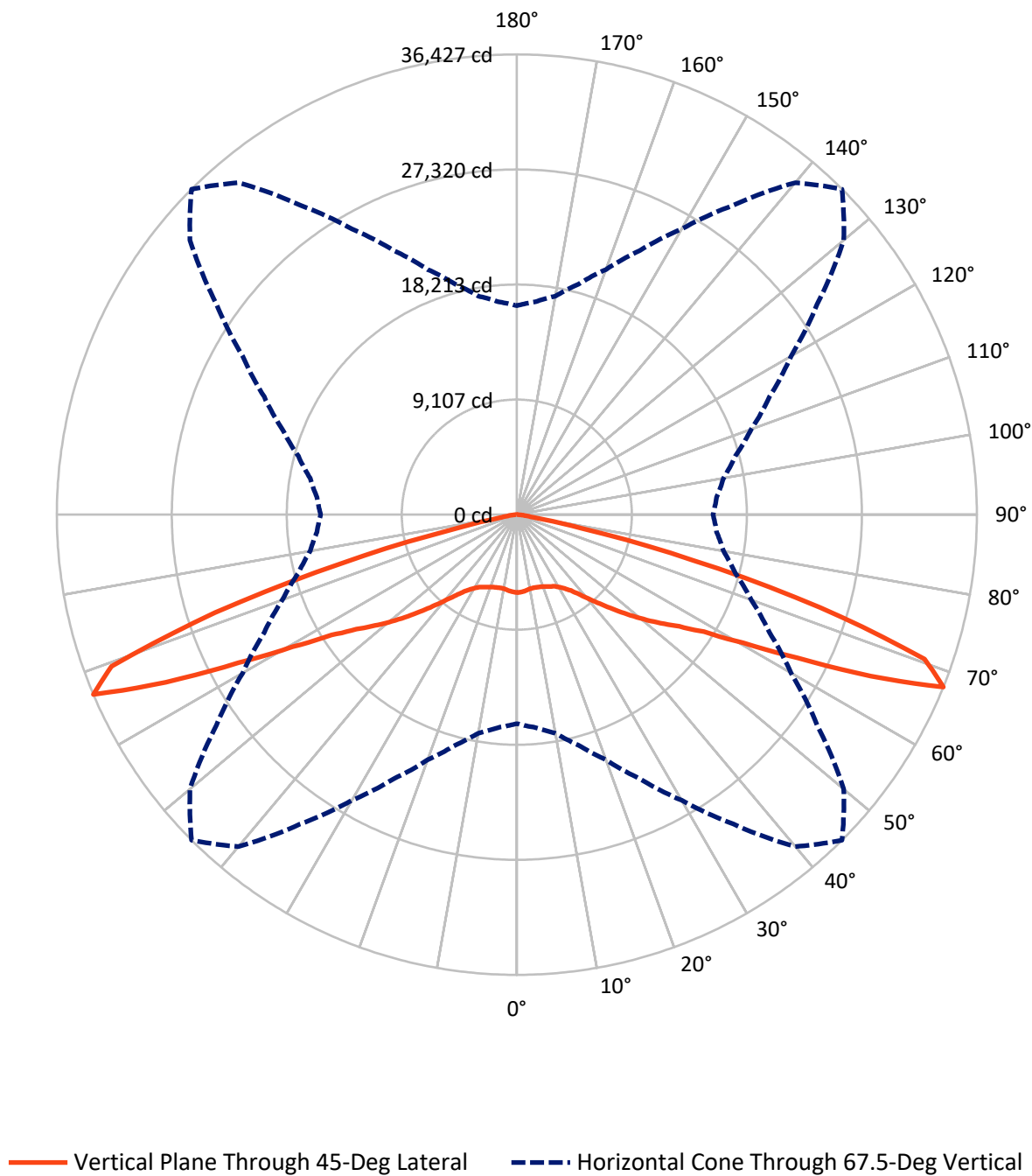


Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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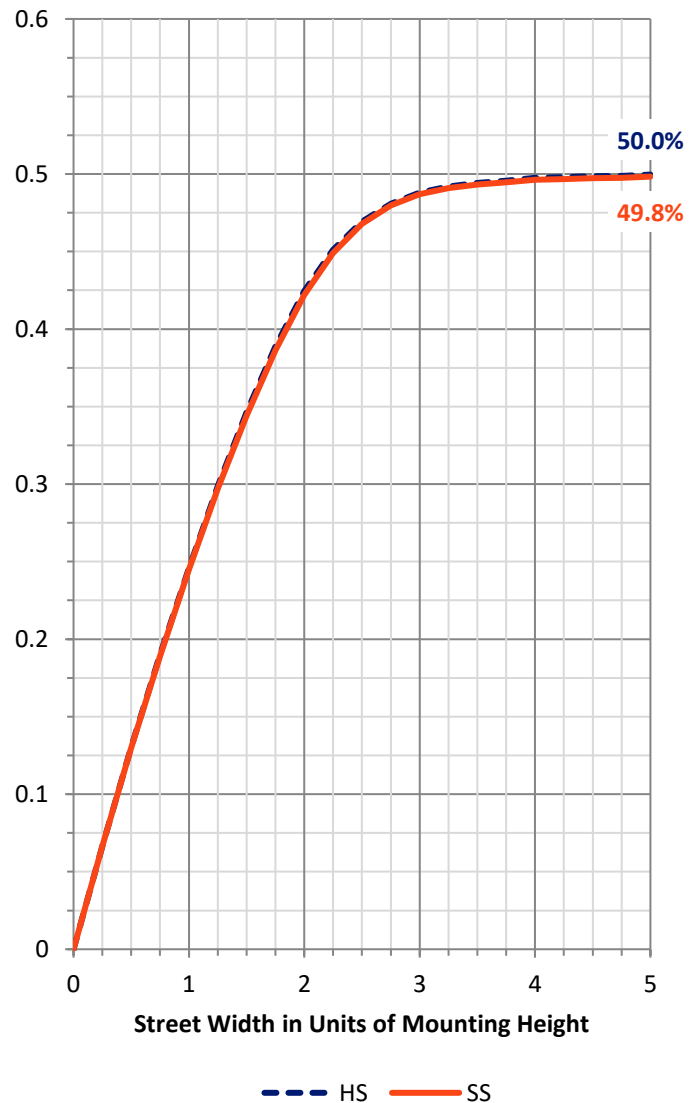
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30946.5	0.0	30946.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30946.5	0.0	30946.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	61893.0	0.0	61893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.3	0.9
10°-20°	1675.2	2.7
20°-30°	2847.8	4.6
30°-40°	4655.2	7.5
40°-50°	8310.4	13.4
50°-60°	14011.6	22.6
60°-70°	21743.9	35.1
70°-80°	7639.9	12.3
80°-90°	431.8	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°	61893.0	100.0
0°-180°	61893.0	100.0

Coefficient of Utilization



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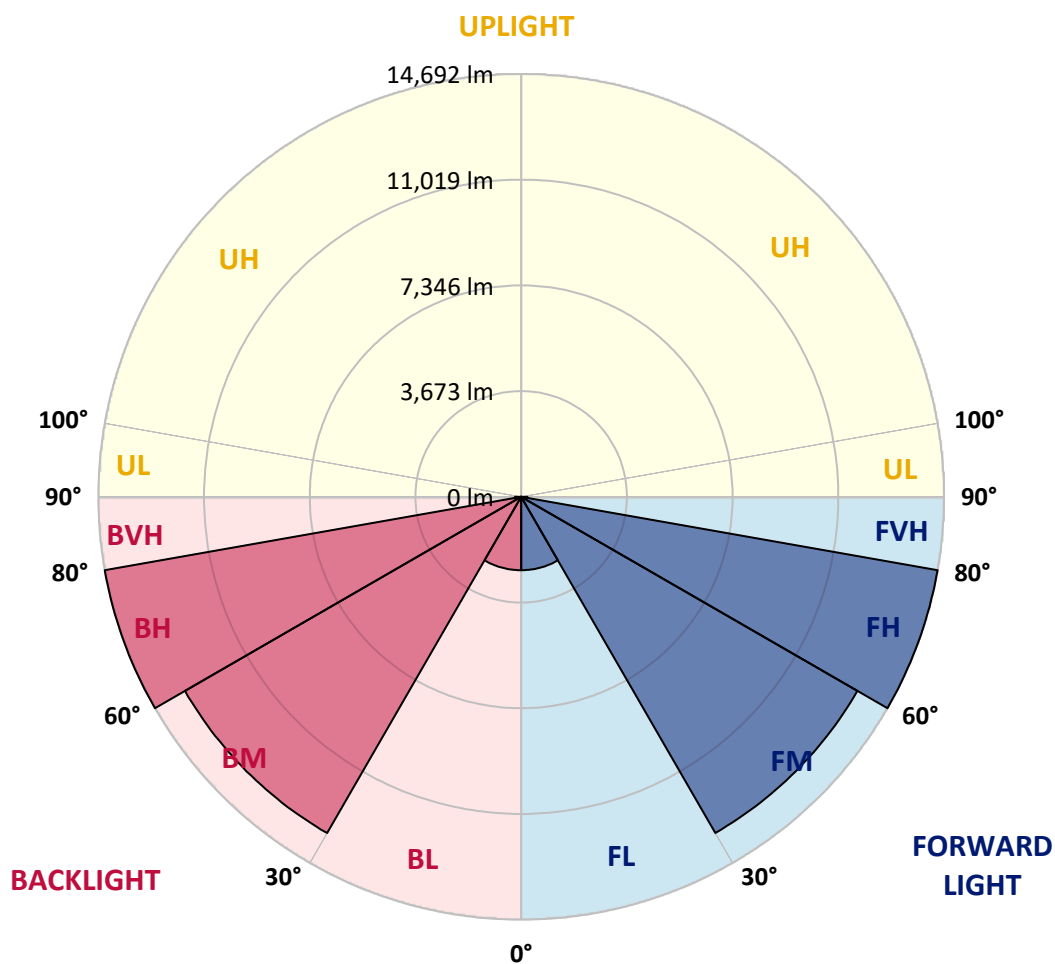
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2550.1	4.1			
FM	(30°-60°)	13488.6	21.8			
FH	(60°-80°)	14691.9	23.7			G5
FVH	(80°-90°)	215.9	0.3			G2/225
BL	(0°-30°)	2550.1	4.1	B4/5000		
BM	(30°-60°)	13488.6	21.8	B5		
BH	(60°-80°)	14691.9	23.7	B5		G5
BVH	(80°-90°)	215.9	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°	6167.9	6167.9	6167.9	6167.9	6167.9	6167.9	6167.9	6167.9	6167.9	6167.9	6167.9
2.5°	6145.1	6150.8	6150.8	6150.8	6148.0	6148.0	6142.3	6148.0	6145.1	6136.6	6139.4
5°	6093.9	6099.6	6099.6	6096.7	6105.3	6102.4	6093.9	6099.6	6096.7	6091.0	6093.9
7.5°	6019.9	6028.4	6028.4	6025.6	6034.1	6031.3	6025.6	6028.4	6028.4	6019.9	6019.9
10°	5937.3	5943.0	5943.0	5940.2	5954.4	5954.4	5951.6	5960.1	5963.0	5954.4	5948.7
12.5°	5860.5	5869.0	5869.0	5880.4	5894.7	5900.3	5914.6	5926.0	5937.3	5934.5	5923.1
15°	5815.0	5820.7	5832.0	5846.3	5869.0	5889.0	5911.7	5937.3	5960.1	5965.8	5948.7
17.5°	5786.5	5795.0	5812.1	5832.0	5863.3	5897.5	5931.7	5965.8	5997.1	6008.5	5988.6
20°	5778.0	5783.7	5800.7	5834.9	5877.6	5928.8	5977.2	6017.0	6059.7	6074.0	6059.7
22.5°	5795.0	5806.4	5826.3	5866.2	5923.1	5988.6	6045.5	6099.6	6153.7	6179.3	6159.4
25°	5871.9	5883.3	5908.9	5960.1	6022.7	6091.0	6156.5	6219.1	6267.5	6293.1	6278.9
27.5°	6014.2	6028.4	6059.7	6111.0	6179.3	6253.3	6324.4	6375.7	6415.5	6424.1	6407.0
30°	6227.7	6259.0	6296.0	6352.9	6432.6	6495.2	6566.4	6611.9	6660.3	6660.3	6646.1
32.5°	6560.7	6592.0	6631.8	6685.9	6748.5	6816.9	6879.5	6919.3	6970.6	6973.4	6939.2
35°	7058.8	7073.0	7107.2	7141.3	7198.3	7258.0	7312.1	7337.7	7380.4	7383.3	7352.0
37.5°	7716.3	7719.1	7741.9	7753.3	7804.5	7870.0	7921.2	7938.3	7978.1	7972.4	7941.1
40°	8481.9	8496.2	8504.7	8521.8	8575.9	8638.5	8692.6	8701.1	8743.8	8735.2	8695.4
42.5°	9367.1	9372.8	9421.2	9446.8	9498.1	9529.4	9597.7	9606.2	9657.4	9634.7	9589.1
45°	10360.5	10411.7	10457.2	10508.5	10562.6	10599.6	10653.6	10642.3	10676.4	10642.3	10616.6
47.5°	11405.1	11442.1	11544.5	11624.2	11712.5	11743.8	11820.6	11786.5	11820.6	11772.2	11763.7
50°	12555.0	12620.4	12708.7	12799.7	12893.7	12944.9	13044.5	13001.8	13047.4	13001.8	12976.2
52.5°	13687.8	13704.9	13898.4	14032.2	14163.1	14222.9	14282.7	14262.7	14265.6	14262.7	14237.1
55°	14763.7	14803.5	14997.1	15179.2	15406.9	15574.9	15677.3	15665.9	15640.3	15614.7	15572.0
57.5°	15976.2	16016.0	16238.1	16462.9	16721.9	16961.0	17168.8	17382.3	17464.8	17487.6	17393.6
60°	17615.7	17612.8	17908.8	18182.1	18552.1	18907.9	19363.3	19827.2	20359.5	20607.1	20279.8
62.5°	19283.6	19351.9	19778.8	20262.7	21025.5	21768.4	22608.0	23433.5	24276.0	24961.9	24233.3
65°	19084.3	19346.2	19980.9	21076.7	22485.6	24159.3	25969.5	27885.0	29615.6	30805.3	29470.4
67.5°	16539.8	16912.6	17558.7	18890.8	20652.6	23066.3	26106.1	29894.5	34297.7	36426.7	33788.2
70°	11988.6	12409.8	13087.2	14388.0	16132.7	18426.8	21728.5	26276.9	32106.1	34252.2	31346.1
72.5°	5965.8	6193.5	6611.9	7440.2	8760.9	10622.3	13616.6	17988.5	23146.0	25115.6	22460.0
75°	2026.6	2131.9	2203.0	2473.4	2891.8	3623.3	5111.9	7864.3	11997.1	14382.3	11826.3
77.5°	1169.8	1172.7	1221.1	1269.4	1340.6	1420.3	1619.5	2126.2	3677.4	5222.9	3805.5
80°	757.1	754.3	794.1	831.1	879.5	919.3	930.7	984.8	1135.7	1346.3	1204.0
82.5°	392.8	441.2	529.4	577.8	668.9	686.0	663.2	643.3	680.3	705.9	723.0
85°	216.3	187.9	281.8	364.3	404.2	409.9	409.9	387.1	401.3	392.8	426.9
87.5°	99.6	91.1	111.0	179.3	190.7	162.2	170.8	150.9	108.2	105.3	119.5
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°	6167.9	6167.9	6167.9	6167.9	6167.9	6167.9	6167.9	6167.9
2.5°	6139.4	6142.3	6142.3	6150.8	6153.7	6159.4	6165.1	6167.9
5°	6091.0	6099.6	6093.9	6102.4	6102.4	6108.1	6108.1	6111.0
7.5°	6019.9	6028.4	6028.4	6028.4	6025.6	6034.1	6034.1	6034.1
10°	5945.9	5951.6	5948.7	5943.0	5937.3	5945.9	5943.0	5940.2
12.5°	5923.1	5908.9	5897.5	5891.8	5880.4	5883.3	5874.7	5874.7
15°	5937.3	5911.7	5891.8	5883.3	5871.9	5866.2	5860.5	5863.3
17.5°	5974.4	5943.0	5917.4	5903.2	5889.0	5880.4	5869.0	5871.9
20°	6039.8	6002.8	5965.8	5937.3	5911.7	5897.5	5889.0	5886.1
22.5°	6136.6	6082.5	6028.4	5985.7	5951.6	5931.7	5923.1	5917.4
25°	6247.6	6187.8	6125.2	6076.8	6042.7	6017.0	6000.0	6000.0
27.5°	6387.1	6338.7	6281.7	6224.8	6193.5	6167.9	6156.5	6150.8
30°	6620.5	6574.9	6529.4	6475.3	6435.4	6409.8	6389.9	6372.8
32.5°	6919.3	6882.3	6845.3	6805.5	6768.5	6734.3	6703.0	6688.8
35°	7340.6	7312.1	7286.5	7240.9	7226.7	7206.8	7189.7	7175.5
37.5°	7921.2	7909.8	7909.8	7861.4	7850.1	7841.5	7824.4	7827.3
40°	8684.0	8695.4	8681.2	8664.1	8655.6	8632.8	8632.8	8652.7
42.5°	9586.3	9594.8	9626.1	9597.7	9629.0	9600.5	9583.4	9597.7
45°	10633.7	10665.0	10727.6	10699.2	10719.1	10670.7	10610.9	10613.8
47.5°	11809.2	11837.7	11863.3	11843.4	11846.2	11766.5	11686.8	11666.9
50°	13030.3	13041.7	13055.9	13027.4	13033.1	12944.9	12853.8	12856.7
52.5°	14237.1	14291.2	14348.1	14271.3	14254.2	14154.6	14026.5	13975.3
55°	15617.6	15694.4	15628.9	15495.2	15361.4	15227.6	15059.7	15031.2
57.5°	17319.6	17188.7	16983.8	16730.5	16545.5	16357.6	16186.8	16115.7
60°	19687.7	19195.3	18825.3	18449.6	18213.4	17982.8	17758.0	17723.8
62.5°	23035.0	22183.9	21446.8	20669.7	20035.0	19539.7	19144.1	19033.1
65°	27230.4	25218.1	23473.3	21845.2	20430.6	19363.3	18691.6	18395.5
67.5°	29034.9	25061.5	22070.1	19758.9	17908.8	16616.6	15890.8	15529.3
70°	25514.1	20783.6	17530.3	15216.2	13531.2	12153.6	11496.1	11109.0
72.5°	17553.0	13221.0	10454.4	8533.2	7186.9	6034.1	5578.7	5544.6
75°	7881.4	5220.1	3597.7	2772.3	2334.0	2029.4	1935.5	1864.3
77.5°	2205.9	1630.9	1454.5	1360.5	1269.4	1164.1	1124.3	1132.8
80°	1073.0	1013.3	973.4	913.7	831.1	742.9	703.0	720.1
82.5°	711.6	703.0	728.6	686.0	566.4	481.0	404.2	370.0
85°	432.6	438.3	446.9	449.7	381.4	267.6	182.2	204.9
87.5°	170.8	196.4	213.5	222.0	207.8	128.1	102.5	105.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)