

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: P192768

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192768
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-10-LED-E1-RW-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 63897 lumens
Efficiency: N/A
Efficacy: 99.8 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): 640
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



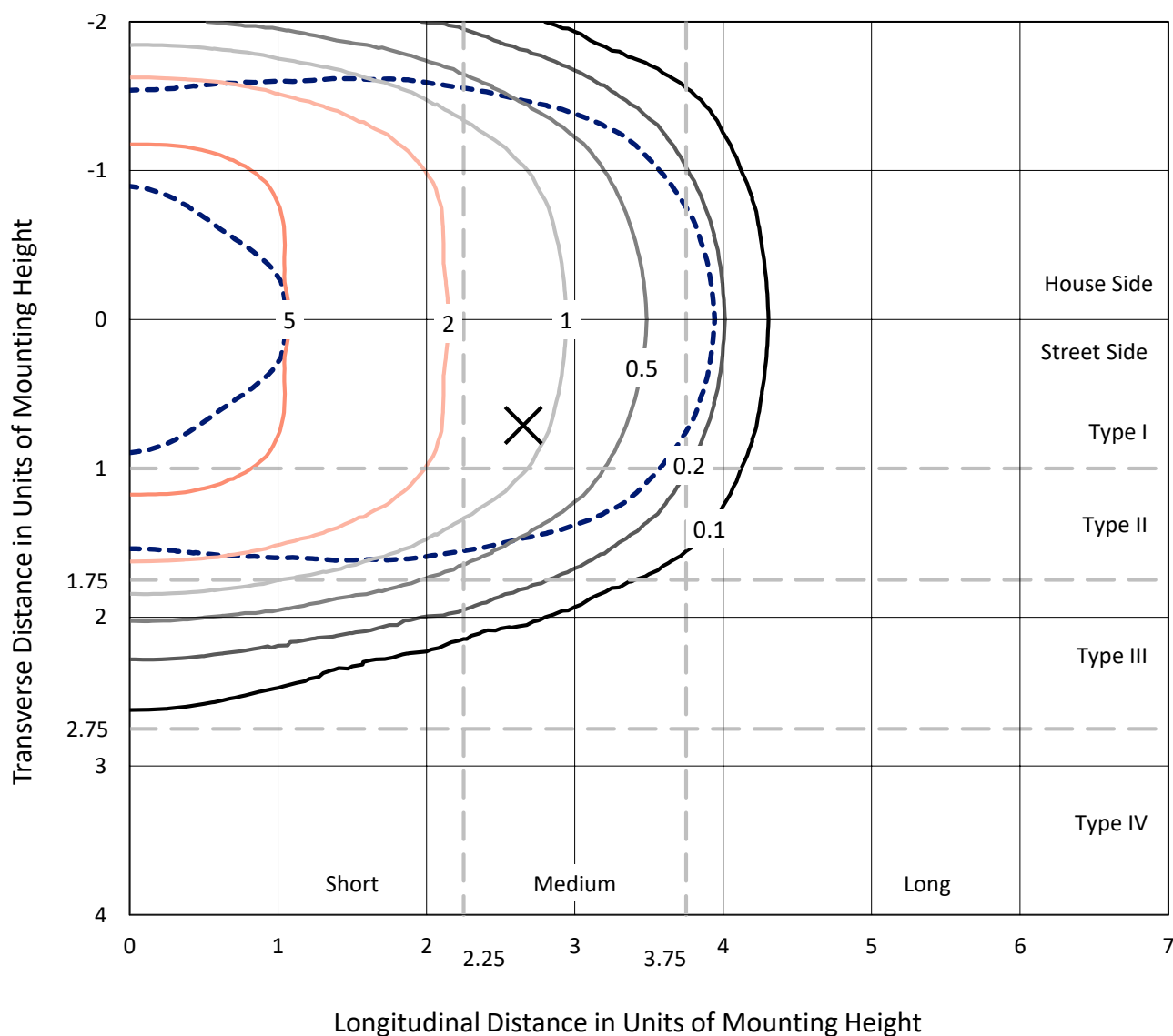
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

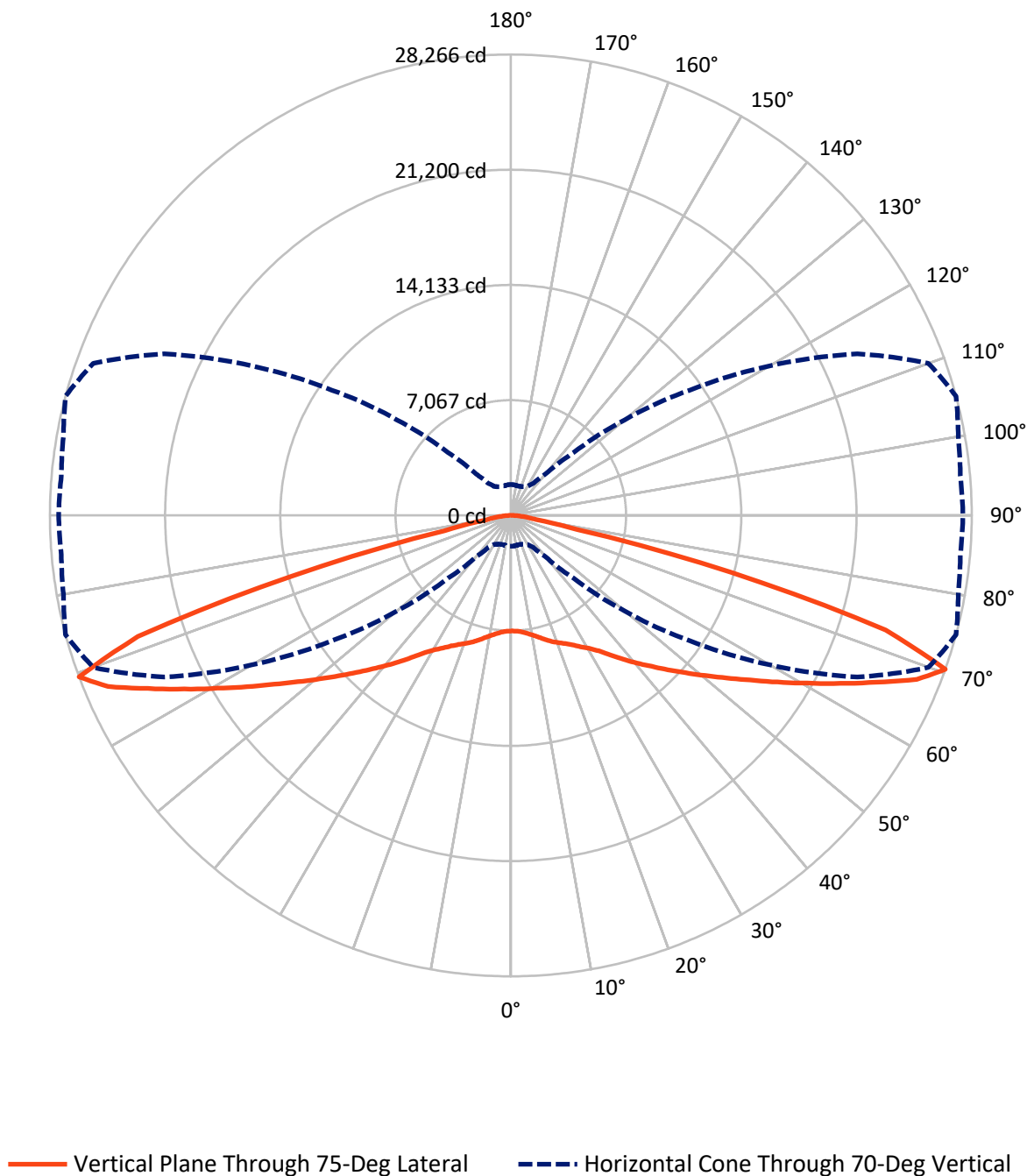


Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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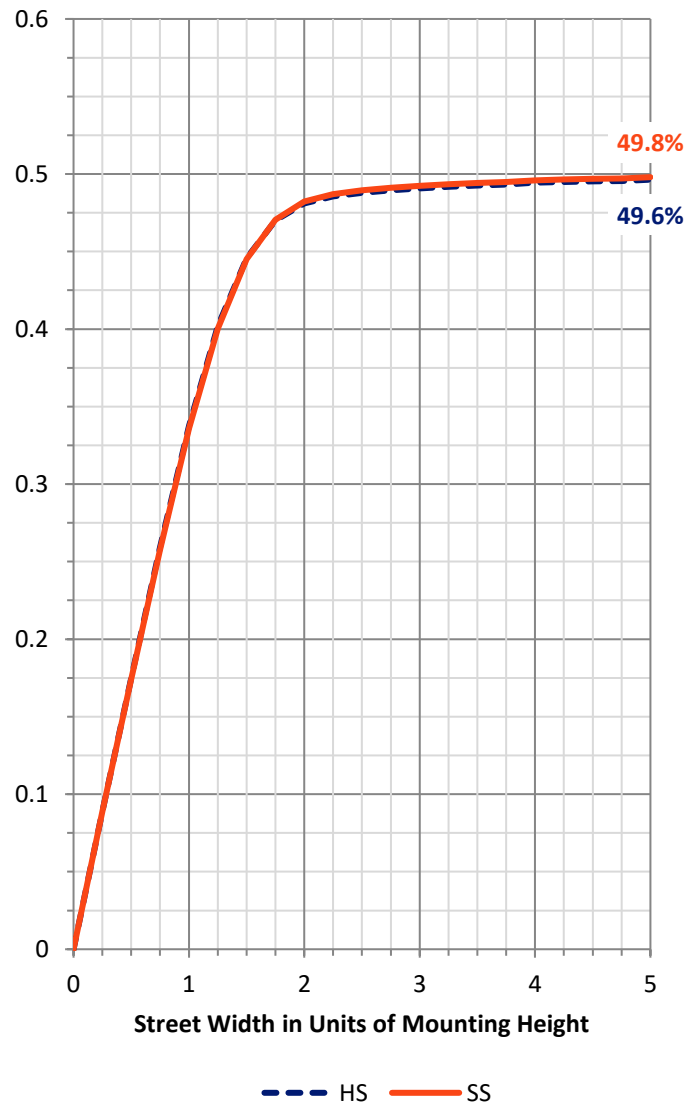
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31948.5	0.0	31948.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31948.5	0.0	31948.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	63897.0	0.0	63897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.8	1.1
10°-20°	2112.1	3.3
20°-30°	3975.3	6.2
30°-40°	7039.6	11.0
40°-50°	11772.4	18.4
50°-60°	16404.9	25.7
60°-70°	15212.9	23.8
70°-80°	6062.8	9.5
80°-90°	637.3	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°	63897.0	100.0
0°-180°	63897.0	100.0

Coefficient of Utilization



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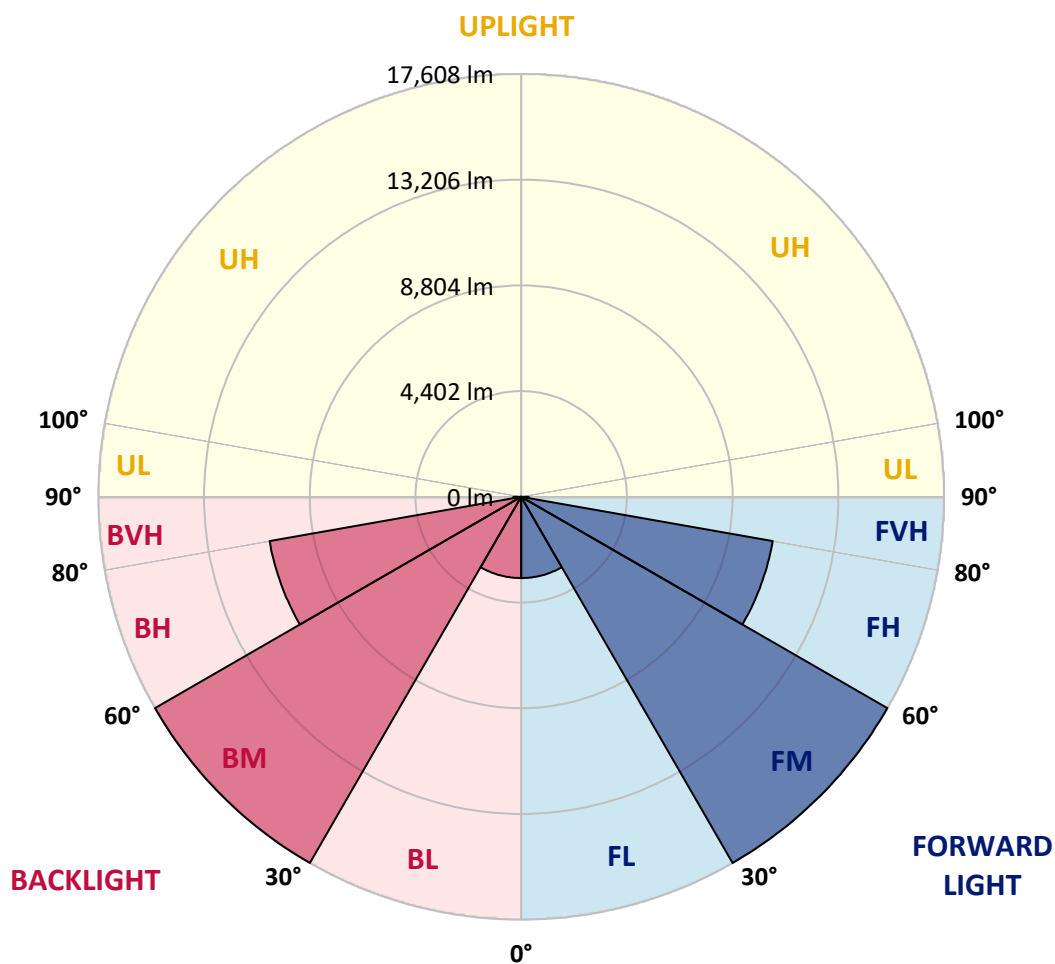
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3383.6	5.3			
FM	(30°-60°)	17608.4	27.6			
FH	(60°-80°)	10637.8	16.6			G4/12000
FVH	(80°-90°)	318.7	0.5			G3/500
BL	(0°-30°)	3383.6	5.3	B4/5000		
BM	(30°-60°)	17608.4	27.6	B5		
BH	(60°-80°)	10637.8	16.6	B5		G5
BVH	(80°-90°)	318.7	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°	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6
2.5°	7075.6	7069.5	7075.6	7072.6	7078.6	7078.6	7084.7	7096.7	7096.7	7105.7	7102.7
5°	7006.1	7003.1	7012.2	7021.2	7030.3	7048.5	7066.6	7093.6	7114.9	7129.9	7145.0
7.5°	6870.2	6870.2	6882.4	6903.4	6924.7	6963.8	7006.1	7060.5	7114.9	7160.2	7199.4
10°	6758.4	6764.6	6779.6	6815.9	6852.0	6912.5	6969.8	7048.5	7123.9	7199.4	7259.8
12.5°	6692.0	6701.1	6728.3	6782.7	6843.0	6924.7	7012.2	7111.8	7196.4	7286.9	7347.3
15°	6713.2	6719.2	6758.4	6825.0	6903.4	7006.1	7123.9	7241.7	7341.3	7438.0	7519.6
17.5°	6831.0	6840.0	6885.3	6960.8	7042.5	7163.1	7290.0	7422.8	7546.6	7655.4	7755.1
20°	7042.5	7051.4	7108.9	7190.4	7286.9	7410.8	7537.6	7676.5	7815.5	7930.2	8041.9
22.5°	7341.3	7356.4	7410.8	7492.4	7601.0	7733.9	7884.9	8032.8	8165.8	8271.5	8371.1
25°	7733.9	7767.1	7818.5	7909.1	8023.8	8144.6	8307.7	8458.8	8585.5	8685.2	8757.6
27.5°	8289.6	8334.9	8374.1	8461.7	8573.5	8688.2	8851.3	8984.2	9104.9	9201.6	9255.9
30°	9026.5	9071.7	9111.0	9195.6	9298.2	9406.9	9560.9	9678.7	9754.2	9829.7	9826.7
32.5°	9920.3	9968.6	9983.8	10074.4	10180.0	10297.8	10436.7	10503.2	10563.5	10572.6	10518.3
35°	10919.9	10944.1	11004.5	11125.3	11246.0	11342.6	11475.6	11508.9	11508.9	11463.5	11342.6
37.5°	12016.2	12031.2	12115.8	12251.7	12375.5	12475.1	12565.7	12632.1	12598.9	12502.3	12300.0
40°	13218.0	13245.2	13366.0	13486.9	13625.7	13719.3	13816.0	13828.1	13794.8	13652.9	13378.0
42.5°	14365.6	14389.8	14510.5	14700.9	14881.9	15011.9	15102.5	15120.6	15014.9	14885.1	14543.7
45°	15353.1	15416.5	15573.5	15797.0	16059.7	16243.9	16367.8	16419.2	16325.5	16156.3	15760.7
47.5°	16135.2	16198.7	16422.1	16687.8	17014.1	17313.0	17518.3	17627.1	17602.9	17476.0	17044.2
50°	16709.0	16769.4	17011.0	17337.1	17717.7	18089.1	18439.3	18699.0	18789.8	18732.4	18336.8
52.5°	16775.4	16875.1	17158.9	17596.9	18092.1	18599.4	19097.8	19538.7	19837.6	19882.9	19589.9
55°	15848.4	15948.0	16340.6	16989.9	17726.8	18554.2	19351.5	20094.3	20683.3	20985.2	20831.2
57.5°	13662.0	13840.1	14253.9	15014.9	16099.1	17337.1	18608.5	19928.3	21127.1	21927.4	22081.4
60°	10470.0	10681.3	11098.1	11907.4	13115.4	14592.1	16289.3	18240.1	20357.0	22156.9	23232.1
62.5°	6716.1	6915.6	7353.3	8057.0	9041.5	10642.1	12463.1	14779.3	17624.1	20465.8	23026.6
65°	3451.7	3560.4	3789.9	4215.8	4982.8	6178.7	7812.5	10122.7	13375.1	16881.1	20583.6
67.5°	2186.4	2207.6	2258.8	2319.2	2515.5	2929.2	3690.3	5130.9	7806.3	11463.5	15797.0
70°	1890.4	1890.4	1866.2	1857.2	1881.3	1938.8	2056.6	2391.8	3294.7	5441.8	9111.0
72.5°	1730.3	1712.3	1670.0	1636.8	1630.7	1630.7	1655.0	1706.2	1851.2	2216.6	3566.4
75°	1594.5	1543.2	1485.8	1446.5	1431.4	1416.3	1413.3	1422.3	1452.6	1510.0	1703.3
77.5°	1428.4	1361.9	1295.5	1256.3	1238.1	1217.0	1198.9	1177.7	1162.6	1180.8	1265.3
80°	1229.0	1153.6	1102.2	1078.1	1060.1	1029.8	990.6	954.3	921.0	915.0	966.4
82.5°	990.6	902.9	906.0	915.0	881.8	839.5	797.3	758.0	700.6	670.5	700.6
85°	800.3	755.0	733.7	791.2	742.9	679.5	613.1	543.6	453.0	380.6	413.8
87.5°	311.1	311.1	465.1	715.7	643.2	525.4	449.9	383.5	238.6	184.2	187.3
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°	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6	7087.6
2.5°	7099.7	7105.7	7102.7	7099.7	7099.7	7096.7	7099.7	7099.7
5°	7154.1	7169.1	7169.1	7175.3	7175.3	7178.3	7181.3	7178.3
7.5°	7235.7	7262.8	7280.9	7302.2	7305.1	7308.2	7314.2	7308.2
10°	7317.2	7371.5	7410.8	7450.1	7468.2	7474.2	7480.2	7480.2
12.5°	7419.9	7495.4	7564.8	7634.3	7667.5	7685.7	7685.7	7697.7
15°	7588.9	7664.4	7746.1	7839.6	7897.0	7927.2	7936.3	7936.3
17.5°	7827.6	7894.0	7963.5	8054.0	8126.4	8165.8	8174.8	8171.8
20°	8105.4	8168.8	8208.0	8265.5	8328.9	8374.1	8386.2	8386.2
22.5°	8422.5	8458.8	8464.8	8482.9	8534.2	8594.6	8621.7	8627.7
25°	8772.8	8781.8	8757.6	8757.6	8790.9	8848.3	8875.4	8878.4
27.5°	9225.8	9180.4	9120.1	9098.9	9120.1	9186.5	9219.8	9231.8
30°	9790.5	9681.8	9542.8	9467.4	9455.3	9542.8	9603.3	9612.3
32.5°	10436.7	10279.6	10095.4	9941.5	9902.1	9956.6	10029.0	10026.0
35°	11203.8	11016.5	10793.0	10596.7	10506.2	10560.6	10663.1	10675.2
37.5°	12088.6	11844.0	11587.3	11339.7	11197.8	11212.8	11321.6	11357.8
40°	13076.1	12759.0	12435.9	12103.7	11901.4	11862.1	11995.0	12016.2
42.5°	14133.0	13725.3	13317.7	12907.1	12647.3	12586.8	12740.9	12731.9
45°	15259.4	14740.0	14262.9	13810.0	13501.9	13411.3	13538.1	13538.1
47.5°	16470.4	15830.2	15262.5	14749.1	14413.9	14284.0	14404.8	14413.9
50°	17753.9	17074.4	16407.0	15836.2	15434.6	15268.6	15425.6	15449.7
52.5°	19031.4	18370.0	17696.5	17044.2	16558.0	16355.7	16536.9	16615.4
55°	20326.8	19677.6	19034.3	18397.2	17820.3	17581.8	17775.1	17874.7
57.5°	21694.8	21093.9	20480.8	19837.6	19282.0	18910.5	19115.9	19248.8
60°	23298.5	22785.0	22147.8	21438.2	20876.5	20499.0	20616.7	20734.5
62.5°	24566.7	24766.1	24225.5	23404.1	22682.3	22199.2	22313.9	22437.7
65°	23953.7	25998.1	26478.3	25647.8	24648.4	23896.3	23848.0	23911.4
67.5°	20021.9	23993.0	26889.0	27680.3	26843.7	25798.9	25605.6	25699.2
70°	13393.2	18339.7	23449.4	27254.4	28266.1	27861.4	27671.2	27728.6
72.5°	6432.3	10681.3	15908.7	20967.1	24047.3	25460.6	25913.6	26134.0
75°	2352.5	4240.0	7667.5	11554.0	13948.8	16147.3	17581.8	18167.6
77.5°	1419.4	1712.3	2449.1	3687.3	4176.6	4674.7	4481.5	4578.2
80°	1051.0	1186.8	1343.9	1510.0	1564.3	1564.3	1504.0	1455.6
82.5°	736.9	824.5	900.0	990.6	1014.7	969.3	797.3	634.1
85°	474.0	513.4	546.7	603.9	588.9	561.7	377.5	335.2
87.5°	217.4	247.6	259.7	287.0	274.8	262.8	187.3	157.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)