

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: P192827

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40735.1 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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



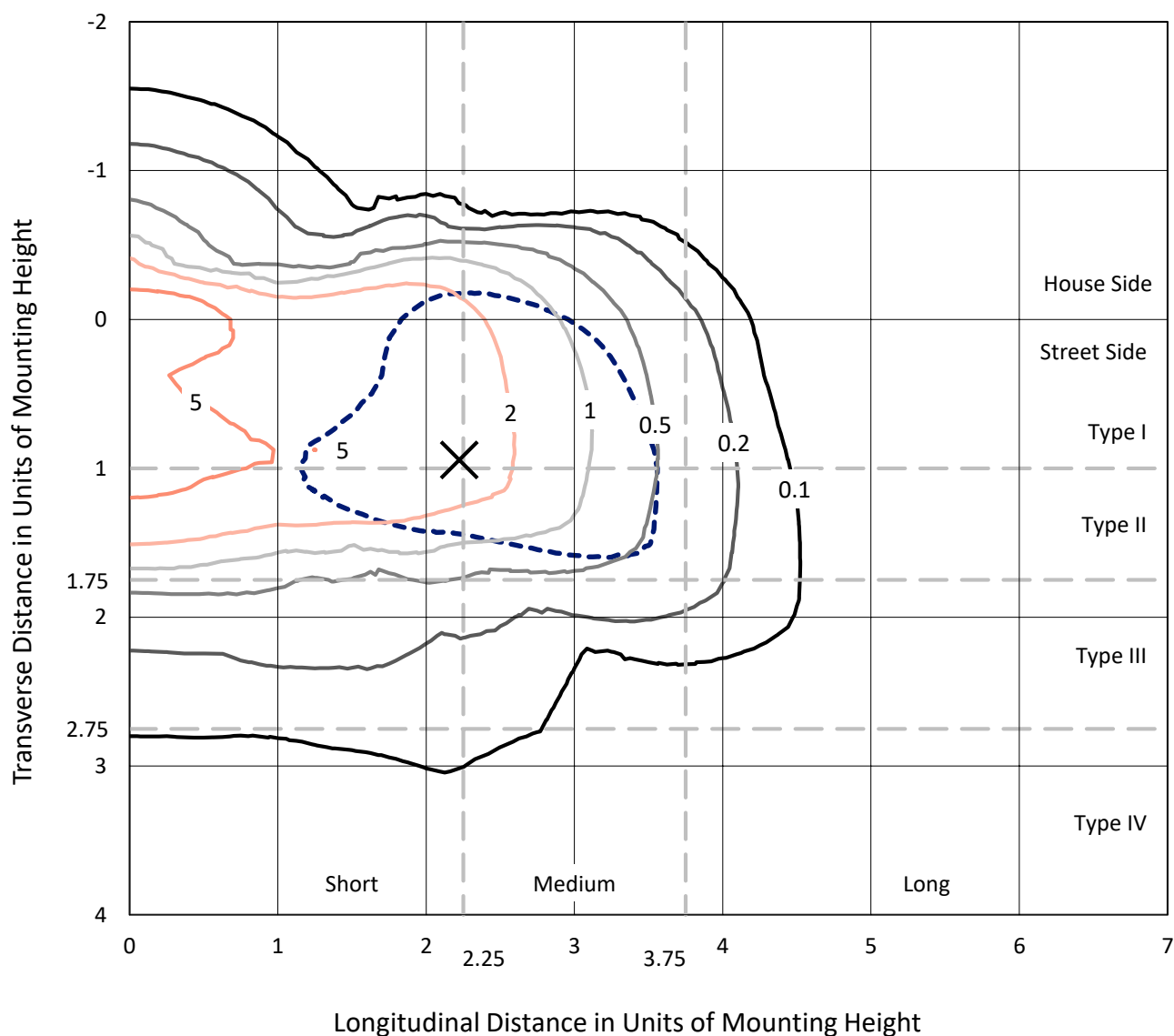
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

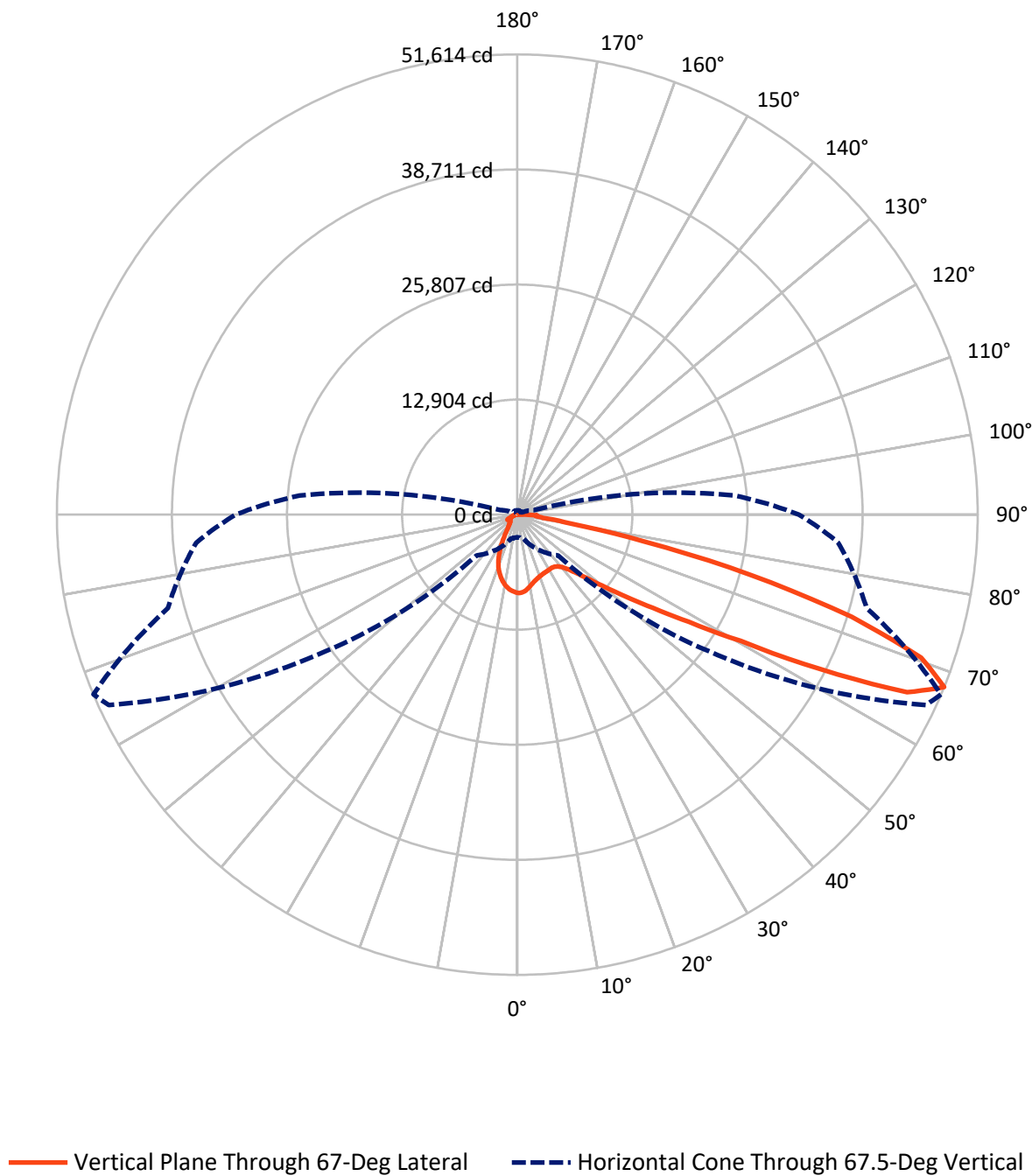


Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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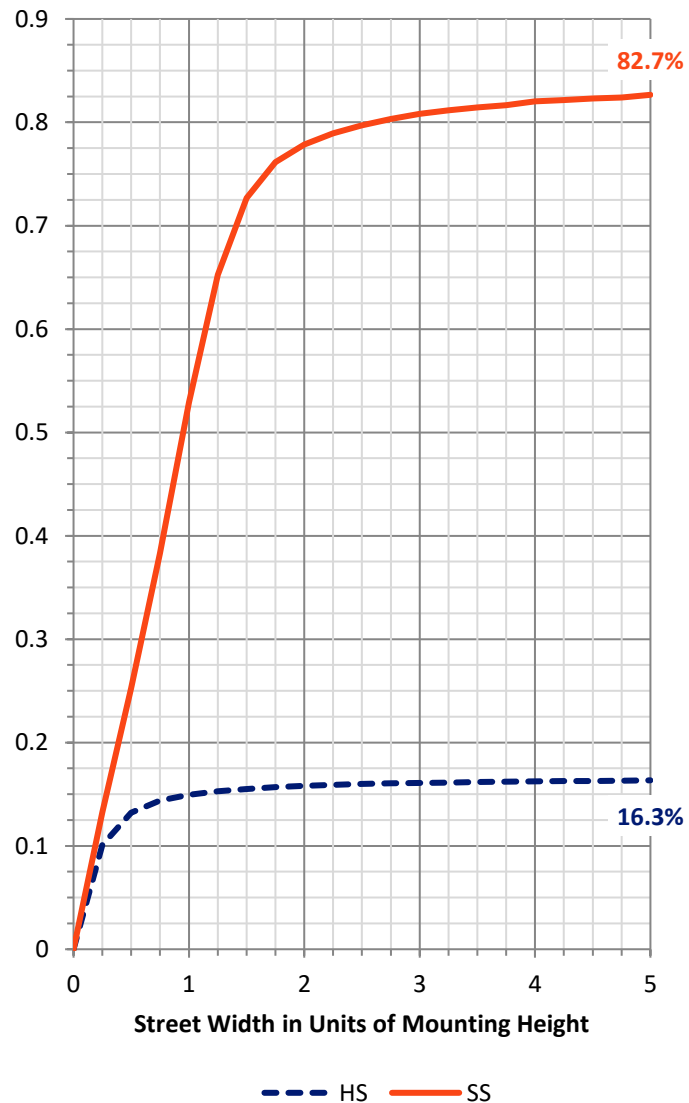
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6749.4	0.0	6749.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	33985.8	0.0	33985.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	40735.1	0.0	40735.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.6	1.8
10°-20°	1734.5	4.3
20°-30°	2351.1	5.8
30°-40°	3342.4	8.2
40°-50°	5591.9	13.7
50°-60°	8846.4	21.7
60°-70°	11269.5	27.7
70°-80°	5902.9	14.5
80°-90°	946.7	2.3
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°	40735.1	100.0
0°-180°	40735.1	100.0

Coefficient of Utilization



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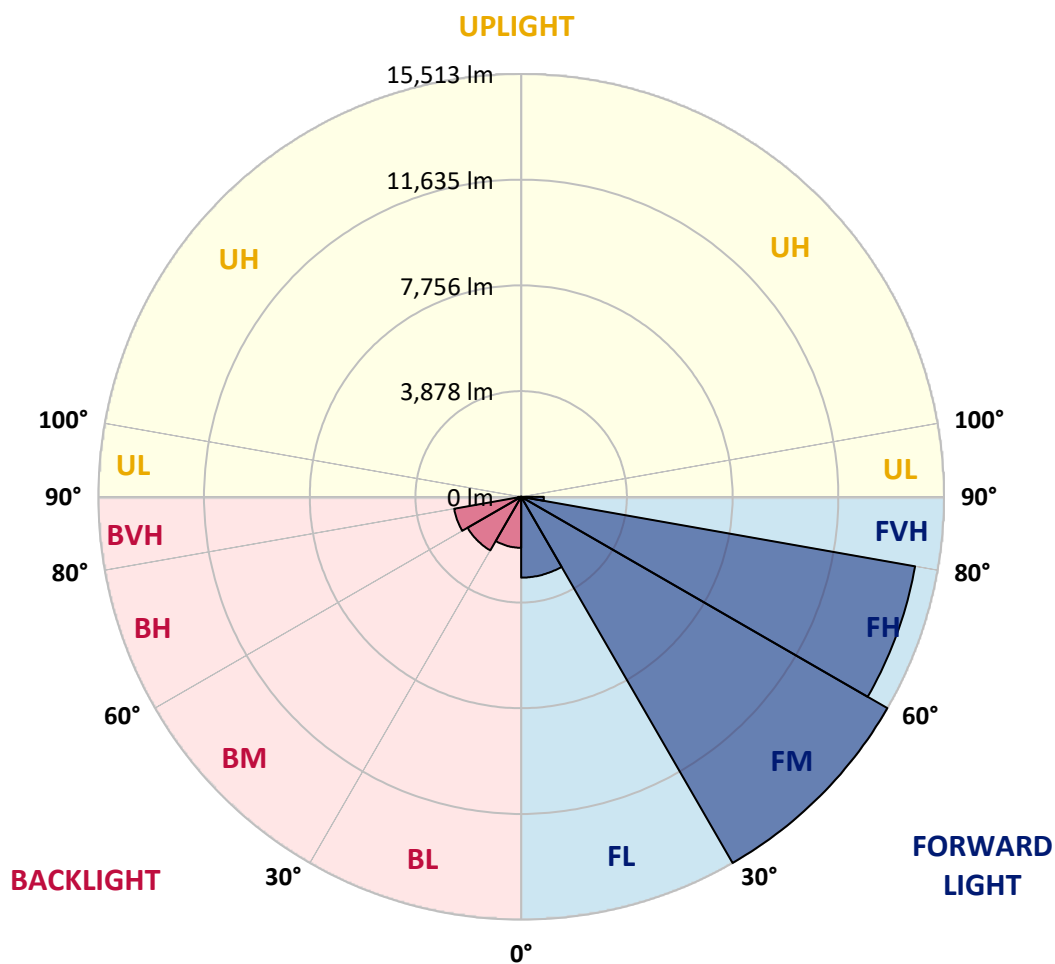
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2964.5	7.3			
FM	(30°-60°)	15512.8	38.1			
FH	(60°-80°)	14676.0	36.0			G5
FVH	(80°-90°)	832.4	2.0			G5
BL	(0°-30°)	1870.7	4.6	B3/2500		
BM	(30°-60°)	2268.0	5.6	B2/2500		
BH	(60°-80°)	2496.4	6.1	B3/2500		G3/2500
BVH	(80°-90°)	114.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5
2.5°	8424.9	8438.9	8483.1	8511.3	8637.8	8692.0	8730.3	8768.4	8774.4	8792.5	8774.4
5°	7541.0	7571.1	7653.5	7745.9	7991.0	8183.8	8386.7	8597.6	8635.9	8772.4	8810.5
7.5°	6856.0	6848.0	6916.3	7026.8	7277.9	7545.0	7900.5	8320.4	8402.8	8710.1	8858.7
10°	6355.8	6349.8	6422.2	6536.7	6775.7	7028.7	7430.5	8005.1	8121.6	8611.7	8904.9
12.5°	5986.2	5988.2	6060.5	6187.2	6430.1	6685.2	7093.0	7699.7	7848.3	8497.2	8953.2
15°	5741.1	5757.2	5815.5	5950.0	6187.2	6442.3	6842.0	7470.7	7637.4	8406.9	9007.5
17.5°	5658.7	5684.9	5705.0	5803.5	6006.3	6261.4	6653.2	7302.1	7478.8	8344.5	9055.6
20°	5735.1	5765.3	5727.1	5761.2	5889.8	6114.8	6504.5	7169.4	7350.2	8274.2	9061.6
22.5°	6062.6	6090.6	5978.1	5879.8	5871.7	6008.2	6382.0	7064.9	7251.7	8222.0	9063.7
25°	6639.0	6657.1	6468.3	6239.4	6016.4	5970.2	6295.5	6992.6	7191.5	8175.8	9025.5
27.5°	7346.1	7360.2	7143.3	6805.8	6357.8	6060.5	6265.5	6950.4	7157.3	8135.7	8961.2
30°	8205.9	8272.2	7981.0	7555.1	6902.2	6327.7	6325.7	6928.3	7119.2	8067.2	8834.7
32.5°	9085.8	9113.9	8913.1	8481.1	7635.5	6797.8	6494.5	6944.4	7109.2	7985.0	8674.0
35°	9977.7	10013.8	9883.3	9535.7	8637.8	7486.8	6823.9	7038.8	7171.4	7956.8	8561.4
37.5°	11132.8	11180.9	11000.1	10598.3	9857.2	8420.8	7372.3	7275.9	7362.2	8037.2	8527.3
40°	12958.7	12936.7	12408.3	11809.8	11191.0	9616.1	8155.6	7677.6	7727.8	8296.3	8631.8
42.5°	15084.0	15029.8	14119.8	13179.7	12657.4	11062.4	9192.2	8374.6	8364.7	8806.6	8999.3
45°	16779.5	16735.2	15915.7	14756.5	14338.7	12709.7	10532.1	9413.2	9338.9	9616.1	9678.4
47.5°	17697.5	17699.5	17227.5	16281.3	16271.2	14802.8	12253.7	10915.8	10787.2	10917.8	10851.5
50°	17376.0	17418.2	17368.1	17066.8	18035.0	17546.8	14501.4	13010.9	12751.8	12880.3	12625.2
52.5°	15821.3	15875.5	16172.8	16634.8	18776.2	20863.4	17803.9	15614.4	15313.0	15266.8	14983.6
55°	13065.2	13131.6	13738.1	14993.6	18159.6	23091.1	23014.8	18932.9	18452.8	18016.9	17896.3
57.5°	9005.4	9115.9	10092.2	11956.4	16164.8	23764.0	29220.0	23663.6	22687.3	21164.6	21192.8
60°	5076.1	5204.8	6355.8	8049.2	12139.1	23032.8	33940.7	30828.9	28768.0	24850.8	25059.7
62.5°	3228.2	3366.8	4240.6	5592.4	7283.9	19095.6	35875.1	40790.7	38173.1	29394.7	29599.5
65°	2613.5	2673.7	3085.5	4616.2	5289.1	11504.4	34406.7	48996.5	48020.2	35162.0	34205.8
67.5°	2551.2	2571.3	2784.2	3875.0	5072.3	6466.3	27444.2	50531.2	51614.0	40547.5	36124.2
70°	2521.0	2591.3	3137.7	3698.2	4857.2	5453.9	16492.2	46324.9	48034.3	41955.7	33571.0
72.5°	1223.3	1219.4	1578.9	3344.7	5471.9	5656.8	8473.0	37482.1	39197.7	36349.1	27586.8
75°	986.3	901.9	861.7	1225.4	5261.1	5841.5	5399.6	25790.8	27032.4	24370.8	16958.2
77.5°	936.2	835.7	765.4	767.3	2223.8	6195.1	4574.0	14274.5	14636.1	11008.2	4646.4
80°	775.4	683.0	632.7	713.1	1076.8	5899.8	4945.6	6460.3	5928.0	2703.8	1546.8
82.5°	538.3	490.1	476.1	598.6	861.7	4204.4	5751.2	3471.1	2910.7	1353.9	954.2
85°	343.5	293.3	325.4	436.0	671.0	1940.5	5923.9	2705.8	2151.5	859.8	538.3
87.5°	158.7	128.6	160.7	241.0	437.9	668.8	5636.6	3039.3	2215.7	454.0	339.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5	8786.5
2.5°	8790.5	8752.3	8722.1	8665.9	8603.6	8543.4	8489.1	8420.8	8400.7	8382.7	8410.8
5°	8818.7	8780.4	8669.9	8497.2	8306.3	8127.6	7948.8	7796.0	7701.6	7649.5	7679.7
7.5°	8860.8	8806.6	8577.5	8260.1	7916.7	7603.3	7279.8	7020.8	6829.9	6739.5	6765.7
10°	8898.9	8794.5	8420.8	7944.8	7442.6	6976.5	6466.3	6044.4	5731.0	5566.3	5606.5
12.5°	8915.0	8748.3	8201.9	7551.0	6862.0	6179.0	5427.8	4797.0	4347.0	4182.3	4148.1
15°	8931.1	8696.1	7960.8	7103.1	6161.0	5194.7	4142.1	3386.8	3013.2	2930.9	2912.8
17.5°	8935.1	8605.7	7687.7	6617.0	5339.4	4023.6	2832.4	2352.4	2354.3	2486.8	2502.9
20°	8892.9	8471.1	7356.2	6012.3	4355.1	2782.2	1944.5	1862.1	2165.5	2496.9	2537.1
22.5°	8796.5	8292.3	6980.6	5307.3	3228.2	1832.1	1504.6	1594.9	1986.7	2392.4	2438.6
25°	8674.0	8075.4	6536.7	4489.7	2137.3	1309.7	1261.5	1372.0	1637.1	1908.3	1934.4
27.5°	8507.3	7818.3	6038.4	3553.5	1388.0	1078.7	1110.8	1185.1	1293.6	1414.2	1426.3
30°	8292.3	7510.9	5506.1	2591.3	1048.6	970.2	1016.4	1056.6	1102.9	1171.1	1177.2
32.5°	8045.2	7215.6	4959.8	1789.8	930.2	914.0	950.1	970.2	1006.4	1048.6	1052.6
35°	7838.4	6934.3	4393.2	1265.5	879.9	871.8	895.9	904.0	938.1	984.3	988.4
37.5°	7719.8	6705.4	3808.7	1020.5	845.6	833.6	847.8	847.8	895.9	964.2	974.3
40°	7727.8	6578.8	3224.1	922.0	817.6	801.5	803.5	803.5	865.8	940.0	946.1
42.5°	7946.8	6610.9	2705.8	883.9	795.5	777.4	767.3	773.3	825.6	873.8	877.8
45°	8461.0	6838.0	2219.7	859.8	773.3	767.3	745.2	743.3	763.4	785.5	785.5
47.5°	9304.7	7285.9	1890.3	843.7	755.3	753.4	727.2	701.1	699.0	707.1	707.1
50°	10676.7	8057.4	1669.3	825.6	743.3	727.2	697.1	656.8	642.8	648.9	648.9
52.5°	12733.7	9433.3	1585.0	801.5	717.2	691.1	656.8	616.7	604.6	606.6	606.6
55°	15431.6	11546.5	1572.9	773.3	689.0	646.9	618.7	588.6	574.4	578.5	578.5
57.5°	18728.0	14469.3	1787.8	729.2	650.8	602.7	586.6	566.5	556.4	562.4	560.5
60°	22735.5	18294.1	2651.6	683.0	612.7	562.4	562.4	546.4	538.3	544.3	542.4
62.5°	27351.8	22687.3	3728.4	648.9	572.5	530.4	538.3	530.4	522.3	526.3	524.3
65°	31445.7	25549.8	3491.3	622.8	532.3	500.2	514.3	510.2	504.2	508.3	506.2
67.5°	31564.2	24489.3	1960.5	594.6	494.2	470.1	490.1	488.2	484.1	488.2	486.1
70°	28169.3	20678.5	1104.8	542.4	454.0	433.9	462.0	460.0	456.0	464.1	462.0
72.5°	22568.8	15005.6	807.5	478.1	413.8	395.7	427.9	425.9	425.9	437.9	431.9
75°	12986.9	7721.8	644.8	409.8	371.6	357.6	385.6	387.7	391.7	407.7	395.7
77.5°	3702.2	2406.6	526.3	347.6	319.4	313.3	341.6	345.5	347.6	365.6	349.5
80°	1376.0	1108.9	433.9	291.2	261.1	263.2	289.3	295.3	297.3	315.4	295.3
82.5°	877.8	731.2	351.5	225.0	204.9	202.9	235.0	243.1	243.1	245.1	233.0
85°	512.2	437.9	265.2	162.7	144.7	138.6	174.9	188.8	182.8	178.7	170.8
87.5°	343.5	301.3	162.7	90.3	78.3	74.3	102.4	112.5	108.5	102.4	96.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)