

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: P192844

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192844
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-06-LED-E1-SL2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA 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: 37002.8 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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



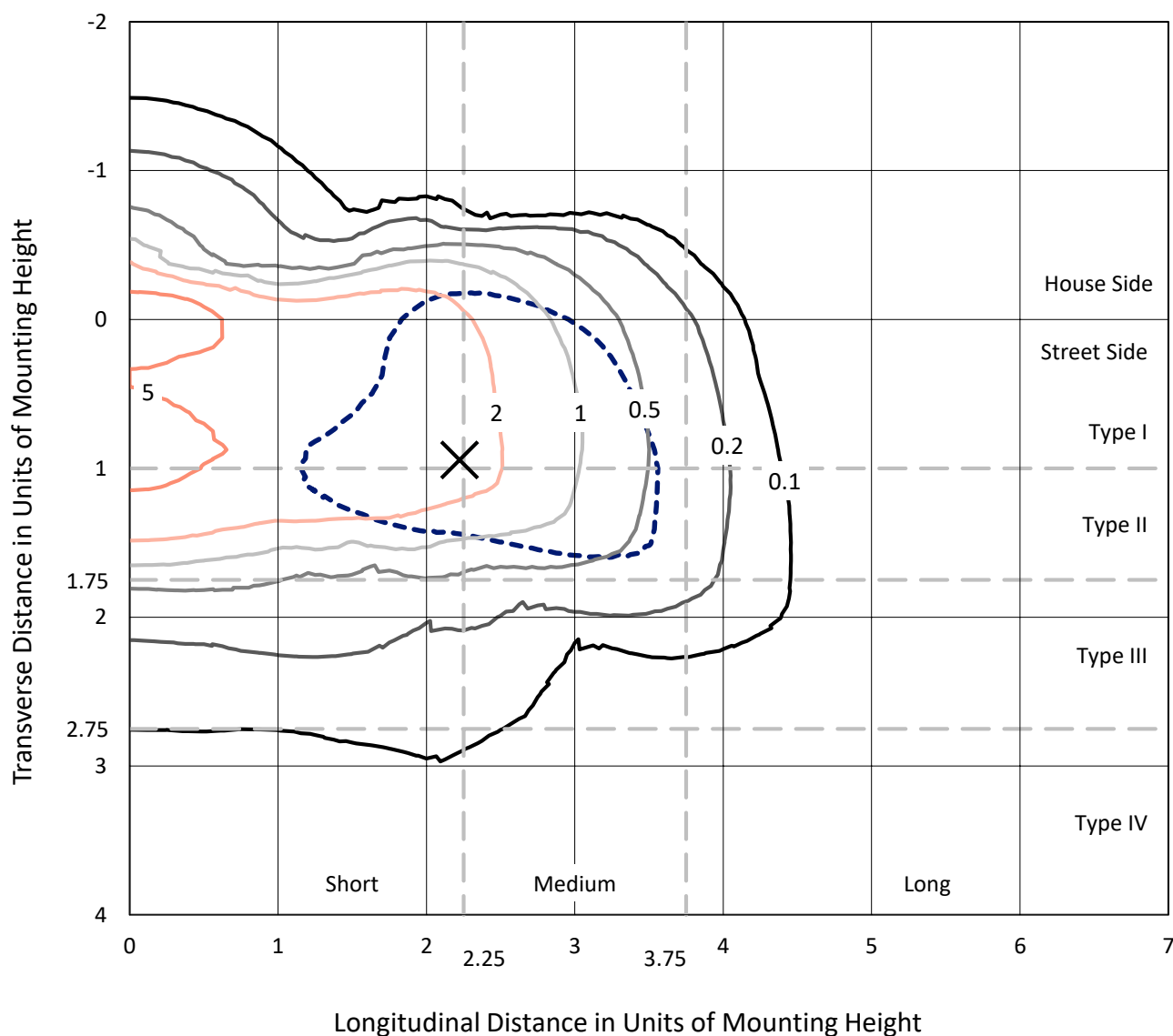
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

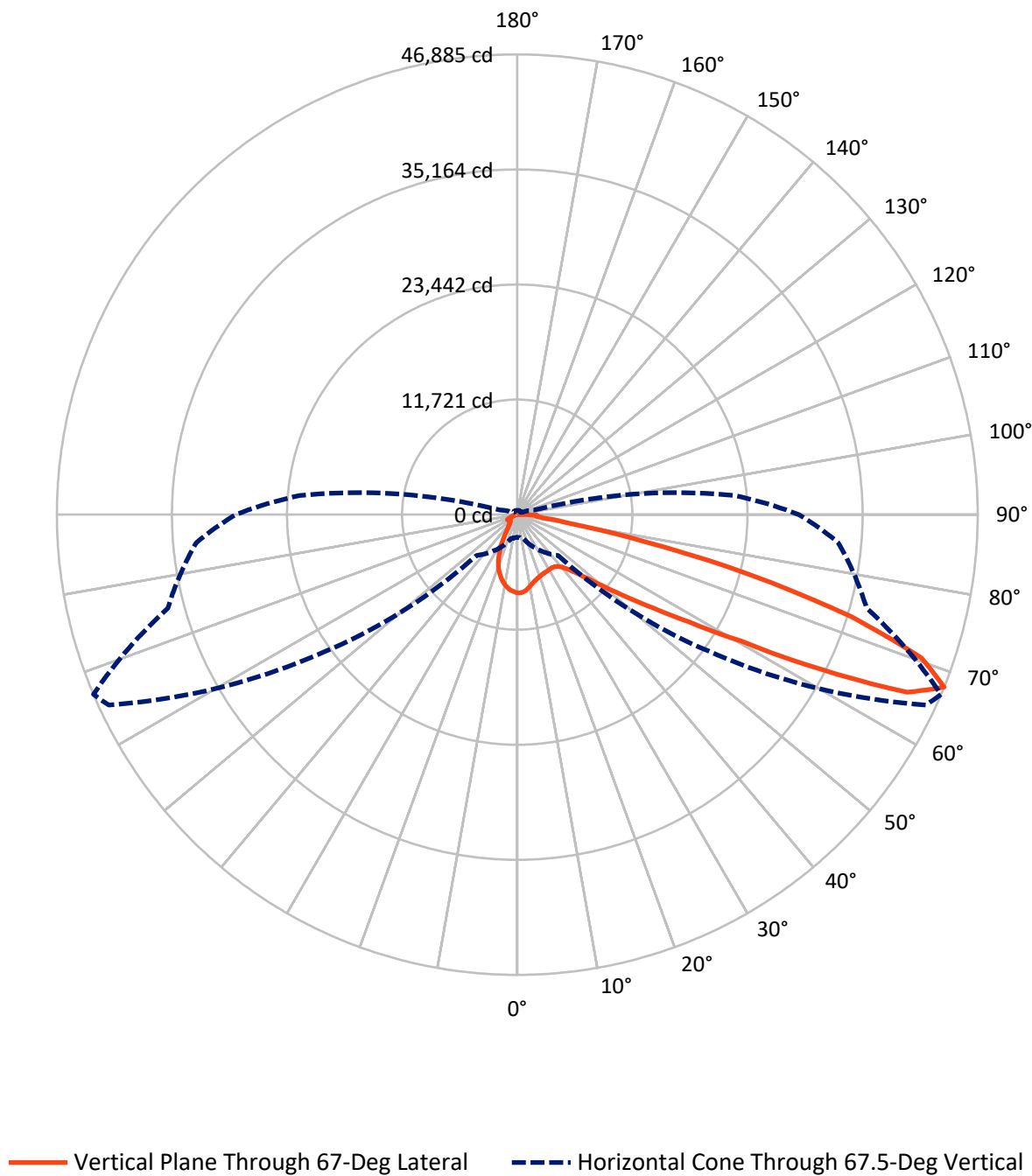


Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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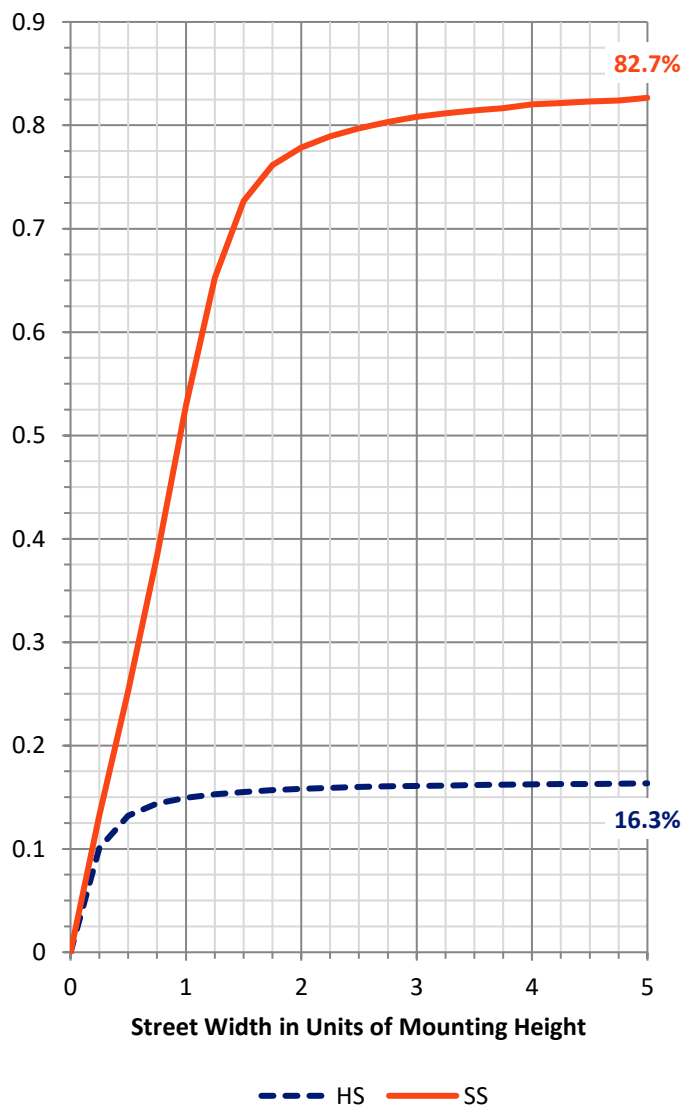
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6131.0	0.0	6131.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	30871.9	0.0	30871.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	37002.8	0.0	37002.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.9	1.8
10°-20°	1575.6	4.3
20°-30°	2135.7	5.8
30°-40°	3036.2	8.2
40°-50°	5079.6	13.7
50°-60°	8035.9	21.7
60°-70°	10236.9	27.7
70°-80°	5362.1	14.5
80°-90°	860.0	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°	37002.8	100.0
0°-180°	37002.8	100.0

Coefficient of Utilization



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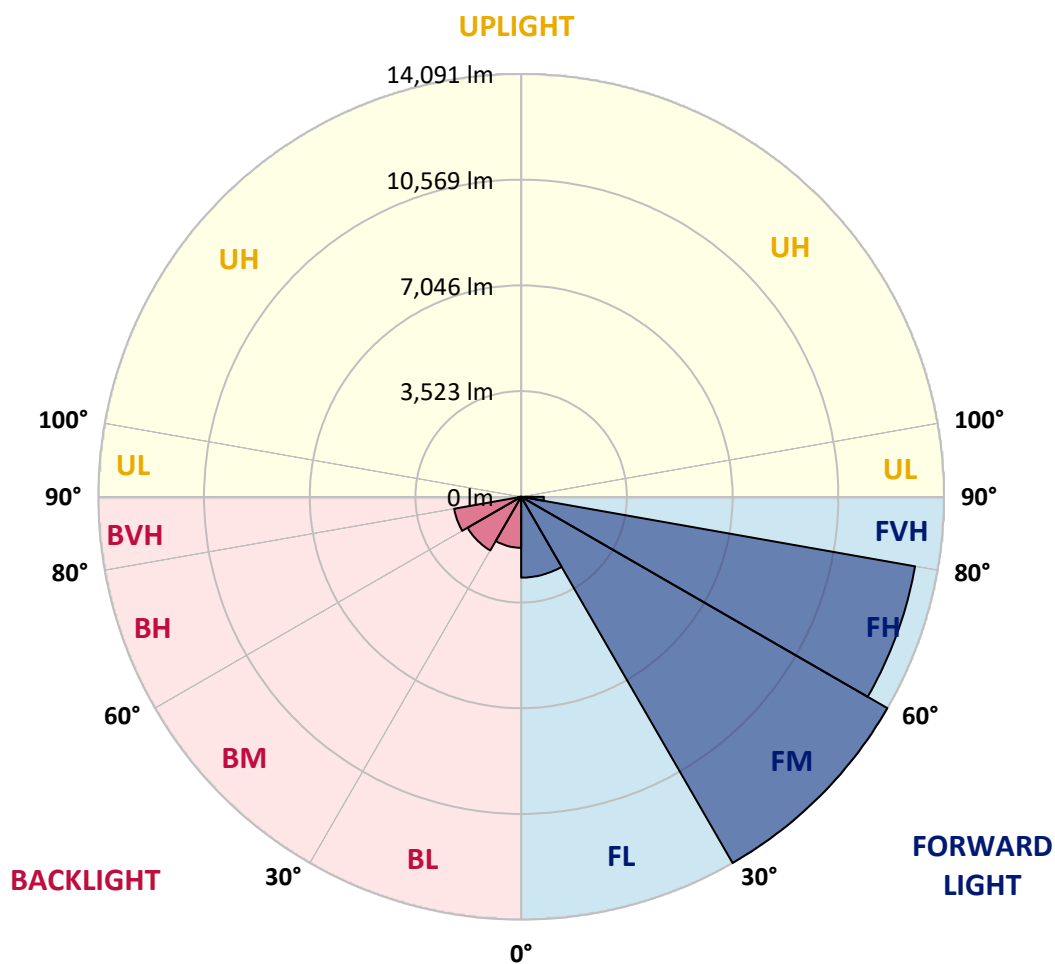
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2692.9	7.3			
FM	(30°-60°)	14091.5	38.1			
FH	(60°-80°)	13331.3	36.0			G5
FVH	(80°-90°)	756.2	2.0			G5
BL	(0°-30°)	1699.3	4.6	B3/2500		
BM	(30°-60°)	2060.2	5.6	B2/2500		
BH	(60°-80°)	2267.6	6.1	B3/2500		G3/2500
BVH	(80°-90°)	103.8	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°	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4
2.5°	7652.9	7665.7	7705.8	7731.4	7846.4	7895.6	7930.4	7965.0	7970.5	7986.9	7970.5
5°	6850.1	6877.5	6952.2	7036.2	7258.8	7434.0	7618.3	7809.9	7844.6	7968.6	8003.4
7.5°	6227.9	6220.5	6282.6	6382.9	6611.1	6853.8	7176.7	7558.1	7632.9	7912.1	8047.2
10°	5773.5	5768.1	5833.7	5937.7	6154.9	6384.8	6749.7	7271.6	7377.4	7822.6	8089.1
12.5°	5437.8	5439.6	5505.2	5620.2	5841.0	6072.7	6443.1	6994.2	7129.2	7718.6	8132.8
15°	5215.2	5229.7	5282.5	5404.8	5620.2	5851.9	6215.1	6786.2	6937.6	7636.5	8182.1
17.5°	5140.3	5164.0	5182.2	5271.6	5456.0	5687.7	6043.5	6632.9	6793.5	7580.0	8225.9
20°	5209.6	5237.1	5202.4	5233.4	5350.1	5554.5	5908.5	6512.5	6676.8	7516.2	8231.4
22.5°	5507.1	5532.7	5430.4	5341.0	5333.7	5457.8	5797.2	6417.7	6587.4	7468.6	8233.2
25°	6030.8	6047.2	5875.6	5667.6	5465.1	5423.1	5718.7	6351.9	6532.6	7426.7	8198.6
27.5°	6673.1	6685.9	6488.8	6182.2	5775.3	5505.2	5691.5	6313.6	6501.6	7390.2	8140.2
30°	7454.1	7514.3	7249.7	6862.9	6269.9	5747.9	5746.2	6293.6	6466.8	7328.1	8025.2
32.5°	8253.3	8278.9	8096.3	7704.1	6935.9	6174.9	5899.4	6308.1	6457.8	7253.4	7879.2
35°	9063.5	9096.4	8977.8	8662.1	7846.4	6800.9	6198.6	6393.9	6514.4	7227.8	7777.1
37.5°	10112.7	10156.5	9992.3	9627.4	8954.1	7649.4	6696.8	6609.2	6687.6	7300.8	7746.1
40°	11771.4	11751.4	11271.4	10727.6	10165.6	8735.1	7408.5	6974.1	7019.8	7536.1	7840.9
42.5°	13701.9	13652.7	12826.2	11972.1	11497.7	10048.9	8350.0	7607.4	7598.2	7999.6	8174.9
45°	15242.1	15201.9	14457.4	13404.6	13025.1	11545.1	9567.1	8550.7	8483.2	8735.1	8791.6
47.5°	16076.0	16077.8	15648.9	14789.6	14780.4	13446.5	11130.9	9915.6	9798.9	9917.5	9857.3
50°	15784.0	15822.4	15776.7	15503.1	16382.6	15939.1	13172.9	11818.9	11583.4	11700.2	11468.5
52.5°	14371.6	14420.9	14691.0	15110.7	17055.8	18951.8	16172.7	14183.7	13910.1	13868.1	13610.8
55°	11868.1	11928.4	12479.4	13619.8	16495.6	20975.4	20906.1	17198.2	16762.1	16366.2	16256.5
57.5°	8180.4	8280.6	9167.5	10860.9	14683.7	21586.7	26542.7	21495.4	20608.6	19225.5	19251.1
60°	4611.1	4727.8	5773.5	7311.7	11026.9	20922.5	30830.9	28004.4	26132.1	22573.8	22763.6
62.5°	2932.4	3058.2	3852.1	5080.1	6616.5	17346.0	32588.1	37053.2	34675.6	26701.5	26887.6
65°	2373.9	2428.8	2802.8	4193.3	4804.5	10450.3	31254.1	44507.3	43620.4	31940.3	31071.7
67.5°	2317.4	2335.6	2529.2	3519.9	4607.5	5873.9	24929.5	45901.4	46884.9	36832.4	32814.4
70°	2290.1	2353.9	2850.2	3359.4	4412.2	4954.2	14981.1	42080.3	43633.2	38111.6	30495.2
72.5°	1111.2	1107.7	1434.2	3038.2	4970.6	5138.5	7696.8	34047.8	35606.2	33018.7	25059.1
75°	895.9	819.3	782.9	1113.2	4779.0	5306.4	4904.8	23427.8	24555.6	22137.8	15404.5
77.5°	850.4	759.2	695.2	697.1	2019.9	5627.5	4154.9	12966.6	13295.1	9999.6	4220.5
80°	704.4	620.4	574.8	647.8	978.1	5359.2	4492.5	5868.5	5384.9	2456.1	1405.1
82.5°	489.1	445.2	432.4	543.8	782.9	3819.1	5224.2	3153.1	2644.1	1229.8	866.8
85°	312.1	266.4	295.6	395.9	609.4	1762.7	5381.1	2457.9	1954.3	780.9	489.1
87.5°	144.1	116.8	146.0	218.9	397.8	607.6	5120.2	2760.9	2012.7	412.4	308.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4
2.5°	7985.1	7950.4	7923.1	7871.9	7815.4	7760.5	7711.4	7649.4	7631.1	7614.6	7640.2
5°	8010.7	7975.9	7875.6	7718.6	7545.3	7382.8	7220.5	7081.8	6996.1	6948.7	6975.9
7.5°	8048.9	7999.6	7791.6	7503.4	7191.3	6906.6	6612.9	6377.5	6204.1	6122.1	6145.8
10°	8083.6	7988.7	7649.4	7216.9	6760.6	6337.4	5873.9	5490.6	5205.9	5056.4	5092.9
12.5°	8098.2	7946.8	7450.4	6859.2	6233.3	5612.8	4930.5	4357.5	3948.7	3799.2	3768.2
15°	8112.8	7899.3	7231.5	6452.3	5596.5	4718.8	3762.7	3076.5	2737.2	2662.3	2645.8
17.5°	8116.5	7817.2	6983.3	6010.7	4850.1	3654.9	2572.8	2136.8	2138.6	2259.1	2273.5
20°	8078.1	7694.9	6682.2	5461.5	3956.1	2527.2	1766.4	1691.6	1967.1	2268.1	2304.6
22.5°	7990.5	7532.6	6341.0	4820.9	2932.4	1664.1	1366.8	1448.9	1804.6	2173.2	2215.2
25°	7879.2	7335.4	5937.7	4078.3	1941.5	1189.8	1145.9	1246.3	1487.1	1733.5	1757.2
27.5°	7727.8	7101.9	5485.2	3227.9	1260.9	979.8	1009.1	1076.6	1175.1	1284.7	1295.6
30°	7532.6	6822.7	5001.7	2353.9	952.5	881.4	923.4	959.9	1001.8	1063.8	1069.3
32.5°	7308.2	6554.5	4505.3	1625.9	844.9	830.3	863.1	881.4	914.2	952.5	956.1
35°	7120.1	6299.1	3990.7	1149.6	799.2	791.9	813.9	821.1	852.1	894.2	897.8
37.5°	7012.5	6090.9	3459.7	926.9	768.2	757.2	770.1	770.1	813.9	875.8	885.0
40°	7019.8	5976.1	2928.7	837.6	742.6	728.1	729.9	729.9	786.4	854.0	859.5
42.5°	7218.6	6005.2	2457.9	802.8	722.6	706.2	697.1	702.5	749.9	793.8	797.4
45°	7685.9	6211.4	2016.4	780.9	702.5	697.1	677.0	675.1	693.4	713.5	713.5
47.5°	8452.2	6618.4	1717.1	766.4	686.1	684.3	660.6	636.9	635.1	642.3	642.3
50°	9698.5	7319.1	1516.4	749.9	675.1	660.6	633.1	596.7	583.9	589.4	589.4
52.5°	11567.1	8568.9	1439.7	728.1	651.4	627.7	596.7	560.2	549.2	551.1	551.1
55°	14017.6	10488.6	1428.8	702.5	625.8	587.6	562.0	534.6	521.8	525.5	525.5
57.5°	17012.1	13143.6	1624.0	662.3	591.2	547.4	532.8	514.6	505.5	510.9	509.1
60°	20652.4	16617.9	2408.6	620.4	556.5	510.9	510.9	496.4	489.1	494.5	492.6
62.5°	24845.7	20608.6	3386.7	589.4	520.1	481.8	489.1	481.8	474.4	478.1	476.3
65°	28564.5	23208.9	3171.4	565.6	483.6	454.4	467.1	463.5	458.1	461.6	459.9
67.5°	28672.2	22245.4	1780.9	540.2	448.8	426.9	445.2	443.4	439.8	443.4	441.6
70°	25588.3	18783.9	1003.6	492.6	412.4	394.1	419.7	417.9	414.2	421.5	419.7
72.5°	20501.0	13630.8	733.5	434.3	375.9	359.5	388.6	386.9	386.9	397.8	392.3
75°	11796.9	7014.3	585.7	372.2	337.6	324.8	350.4	352.2	355.8	370.4	359.5
77.5°	3363.0	2186.1	478.1	315.6	290.1	284.6	310.2	313.9	315.6	332.1	317.5
80°	1249.9	1007.3	394.1	264.6	237.2	239.1	262.8	268.2	270.1	286.5	268.2
82.5°	797.4	664.2	319.4	204.5	186.2	184.3	213.5	220.8	220.8	222.7	211.6
85°	465.3	397.8	240.9	147.8	131.3	125.8	158.8	171.5	166.1	162.4	155.1
87.5°	312.1	273.7	147.8	82.2	71.1	67.5	93.1	102.1	98.6	93.1	87.6
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)