

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: P192845

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192845
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-07-LED-E1-SL2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 43759.4 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 448
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

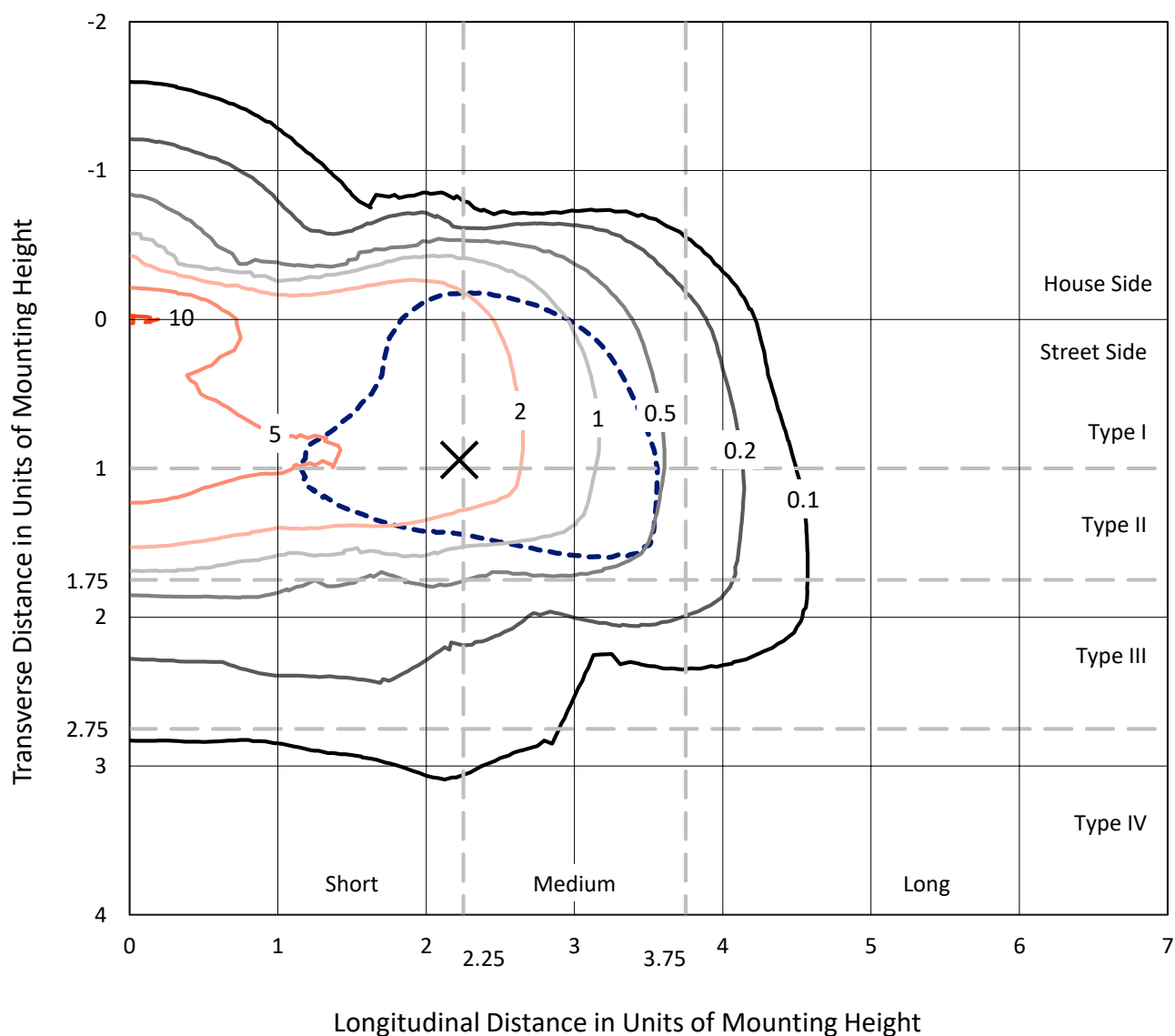


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

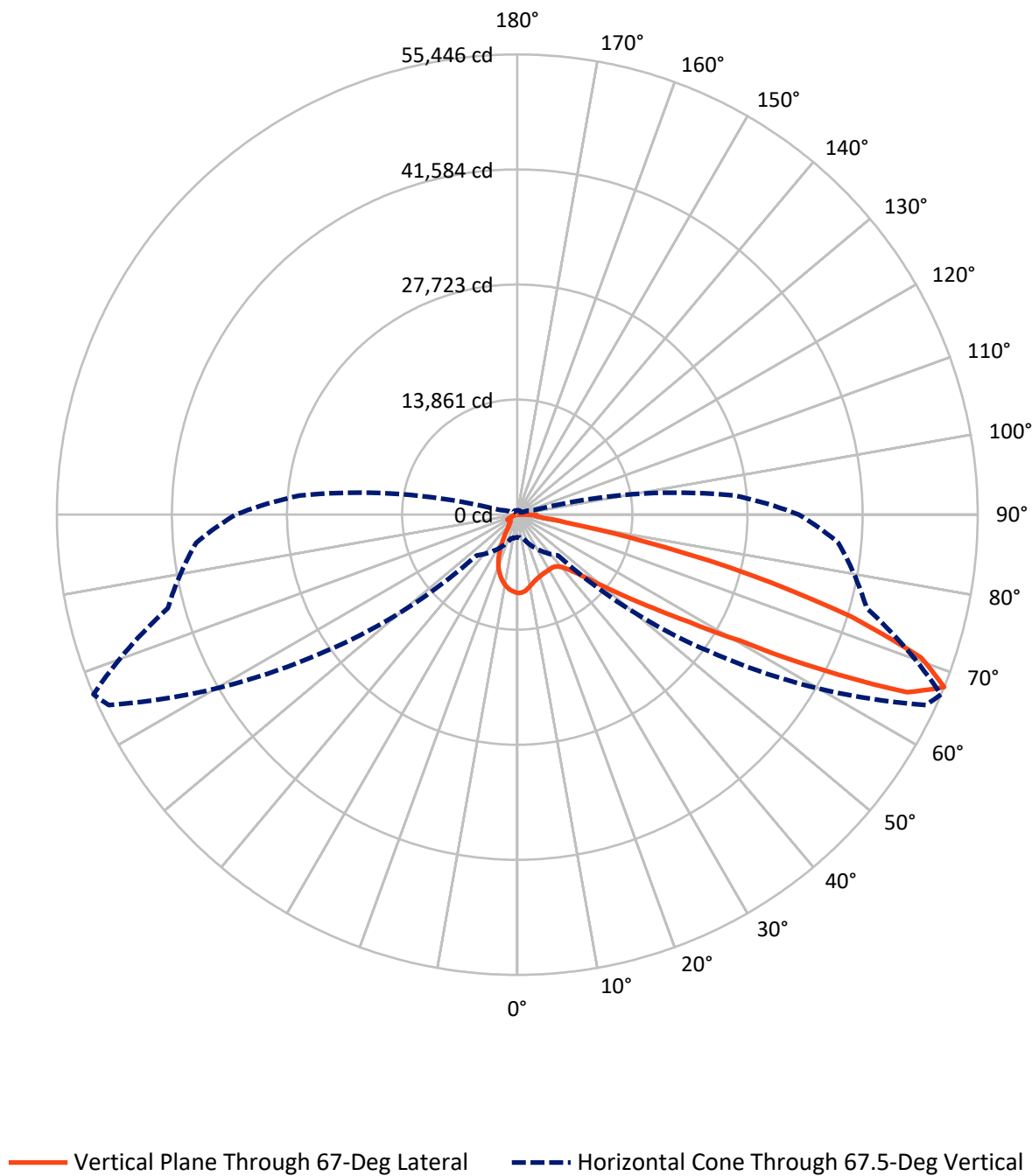


Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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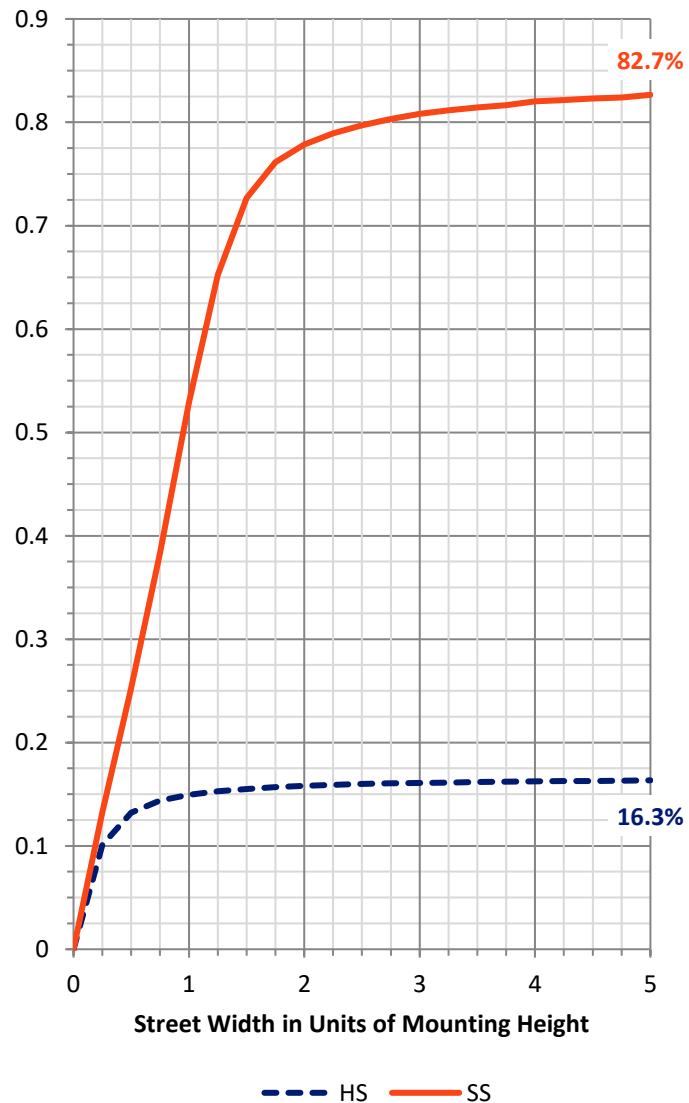
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7250.5	0.0	7250.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	36509.0	0.0	36509.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	43759.4	0.0	43759.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.3	1.8
10°-20°	1863.3	4.3
20°-30°	2525.7	5.8
30°-40°	3590.5	8.2
40°-50°	6007.1	13.7
50°-60°	9503.2	21.7
60°-70°	12106.1	27.7
70°-80°	6341.2	14.5
80°-90°	1017.0	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°	43759.4	100.0
0°-180°	43759.4	100.0

Coefficient of Utilization



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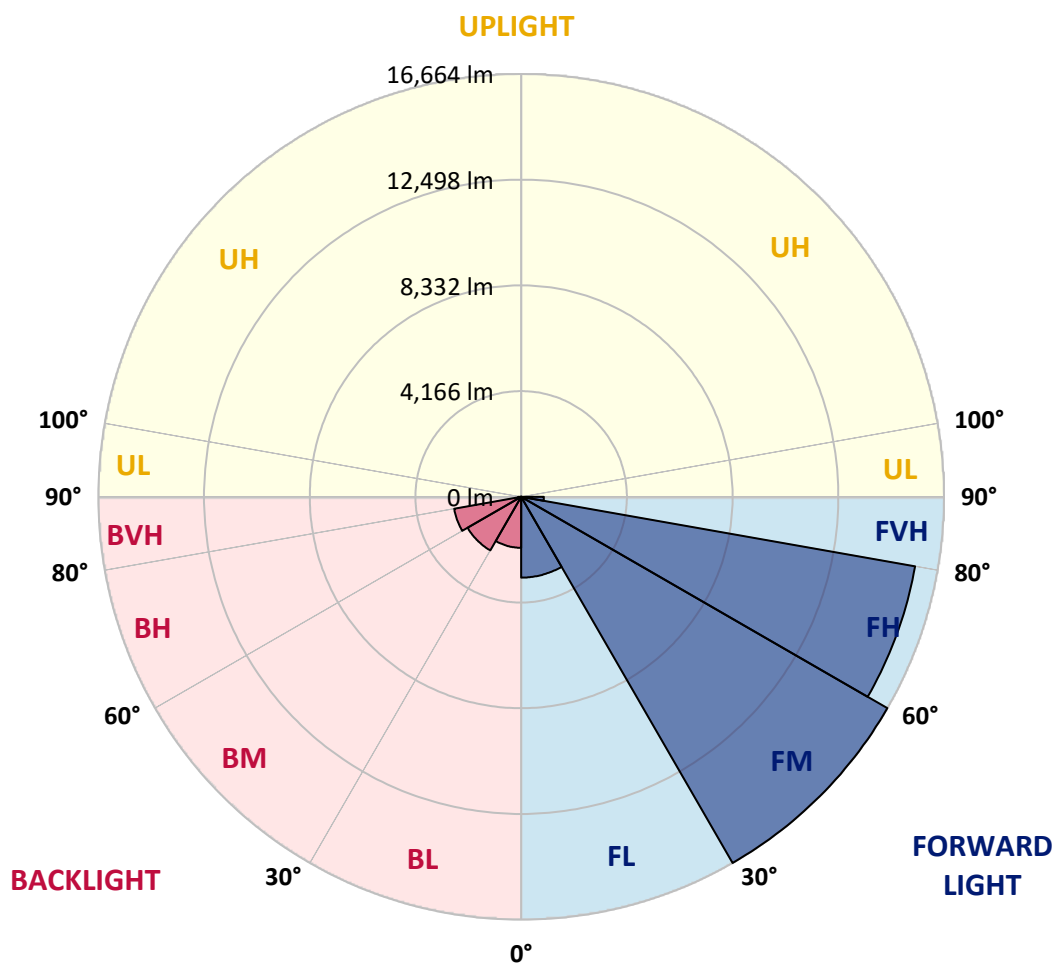
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3184.6	7.3			
FM	(30°-60°)	16664.5	38.1			
FH	(60°-80°)	15765.6	36.0			G5
FVH	(80°-90°)	894.3	2.0			G5
BL	(0°-30°)	2009.6	4.6	B3/2500		
BM	(30°-60°)	2436.4	5.6	B2/2500		
BH	(60°-80°)	2681.7	6.1	B4/5000		G4/5000
BVH	(80°-90°)	122.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8
2.5°	9050.4	9065.5	9113.0	9143.2	9279.1	9337.4	9378.4	9419.4	9425.9	9445.3	9425.9
5°	8100.9	8133.3	8221.8	8320.9	8584.3	8791.4	9009.4	9235.9	9276.9	9423.7	9464.7
7.5°	7365.0	7356.4	7429.7	7548.5	7818.1	8105.2	8487.1	8938.2	9026.7	9356.9	9516.5
10°	6827.7	6821.3	6898.9	7021.9	7278.8	7550.6	7982.2	8599.4	8724.6	9251.1	9566.0
12.5°	6430.7	6432.7	6510.4	6646.5	6907.6	7181.6	7619.6	8271.4	8431.1	9128.1	9617.9
15°	6167.3	6184.6	6247.2	6391.7	6646.5	6920.5	7349.9	8025.3	8204.5	9031.0	9676.2
17.5°	6078.8	6106.9	6128.6	6234.3	6452.2	6726.3	7147.0	7844.0	8034.0	8964.0	9728.0
20°	6160.9	6193.3	6152.3	6189.0	6327.1	6568.7	6987.3	7701.6	7895.8	8888.6	9734.5
22.5°	6512.6	6542.9	6422.0	6316.3	6307.6	6454.4	6855.8	7589.4	7790.1	8832.4	9736.6
25°	7132.0	7151.3	6948.6	6702.5	6463.0	6413.4	6762.9	7511.8	7725.4	8782.8	9695.5
27.5°	7891.6	7906.6	7673.6	7311.1	6829.9	6510.4	6730.6	7466.4	7688.7	8739.6	9626.5
30°	8815.1	8886.4	8573.5	8116.0	7414.7	6797.4	6795.4	7442.7	7647.7	8666.2	9490.6
32.5°	9760.3	9790.5	9574.7	9110.8	8202.3	7302.5	6976.6	7460.0	7636.9	8577.8	9317.9
35°	10718.5	10757.3	10617.0	10243.7	9279.1	8042.6	7330.5	7561.4	7703.9	8547.6	9197.1
37.5°	11959.3	12011.1	11816.8	11385.3	10589.0	9046.0	7919.6	7816.1	7908.8	8633.8	9160.4
40°	13920.8	13897.1	13329.5	12686.5	12021.8	10330.0	8761.2	8247.7	8301.5	8912.3	9272.7
42.5°	16203.9	16145.7	15168.1	14158.3	13597.1	11883.7	9874.8	8996.4	8985.6	9460.4	9667.6
45°	18025.3	17977.7	17097.3	15852.2	15403.4	13653.2	11314.1	10112.1	10032.1	10330.0	10396.9
47.5°	19011.4	19013.6	18506.5	17490.0	17479.3	15901.8	13163.4	11726.2	11588.1	11728.3	11657.2
50°	18666.1	18711.4	18657.4	18333.8	19374.0	18849.5	15578.0	13976.9	13698.6	13836.7	13562.6
52.5°	16996.0	17054.2	17373.6	17869.9	20170.3	22412.3	19125.8	16773.6	16450.0	16400.3	16096.1
55°	14035.2	14106.5	14758.0	16106.8	19507.7	24805.4	24723.4	20338.5	19822.8	19354.5	19225.0
57.5°	9674.1	9792.7	10841.5	12844.0	17364.9	25528.3	31389.3	25420.5	24371.7	22736.0	22766.3
60°	5453.1	5591.3	6827.7	8646.9	13040.4	24742.9	36460.5	33117.8	30903.8	26695.8	26920.2
62.5°	3467.8	3616.7	4555.3	6007.7	7824.7	20513.3	38538.6	43819.0	41007.1	31577.0	31797.1
65°	2807.5	2872.2	3314.6	4958.9	5681.8	12358.6	36961.1	52634.1	51585.4	37772.4	36745.3
67.5°	2740.5	2762.2	2990.9	4162.7	5448.8	6946.3	29481.7	54282.8	55445.9	43557.9	38806.1
70°	2708.2	2783.7	3370.6	3972.7	5217.9	5858.8	17716.6	49764.1	51600.5	45070.6	36063.4
72.5°	1314.2	1309.9	1696.1	3593.0	5878.2	6076.8	9102.2	40264.9	42107.8	39047.8	29634.9
75°	1059.6	968.9	925.8	1316.3	5651.7	6275.3	5800.6	27705.8	29039.4	26180.0	18217.3
77.5°	1005.6	897.7	822.1	824.4	2388.9	6655.1	4913.6	15334.3	15722.7	11825.4	4991.3
80°	833.0	733.6	679.7	766.0	1156.6	6337.8	5312.8	6939.9	6368.0	2904.5	1661.7
82.5°	578.3	526.5	511.5	643.1	925.8	4516.6	6178.2	3728.9	3126.9	1454.5	1025.1
85°	369.0	315.1	349.6	468.2	720.8	2084.5	6363.7	2906.8	2311.2	923.6	578.3
87.5°	170.5	138.1	172.6	259.0	470.5	718.6	6055.1	3265.0	2380.2	487.8	364.7
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°	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8	9438.8
2.5°	9443.2	9402.1	9369.7	9309.3	9242.5	9177.7	9119.5	9046.0	9024.5	9005.0	9035.3
5°	9473.4	9432.4	9313.6	9128.1	8923.1	8731.0	8538.9	8374.9	8273.5	8217.4	8249.7
7.5°	9518.6	9460.4	9214.4	8873.4	8504.4	8167.7	7820.3	7541.9	7337.0	7239.8	7267.9
10°	9559.6	9447.4	9046.0	8534.7	7995.1	7494.5	6946.3	6493.2	6156.5	5979.6	6022.8
12.5°	9576.9	9397.8	8810.8	8111.6	7371.5	6637.8	5830.7	5153.1	4669.7	4492.8	4456.1
15°	9594.2	9341.6	8551.9	7630.4	6618.4	5580.4	4449.7	3638.3	3237.0	3148.5	3128.9
17.5°	9598.5	9244.5	8258.4	7108.2	5735.8	4322.3	3042.7	2526.9	2529.2	2671.5	2688.8
20°	9553.2	9099.9	7902.4	6458.7	4678.4	2988.8	2088.9	2000.4	2326.2	2682.4	2725.5
22.5°	9449.7	8907.9	7498.8	5701.2	3467.8	1968.1	1616.3	1713.4	2134.2	2570.1	2619.7
25°	9317.9	8674.8	7021.9	4823.0	2296.1	1406.9	1355.2	1473.9	1758.7	2050.0	2078.1
27.5°	9138.9	8398.6	6486.7	3817.4	1491.2	1158.8	1193.3	1273.2	1389.7	1519.1	1532.2
30°	8907.9	8068.5	5914.9	2783.7	1126.5	1042.4	1091.9	1135.1	1184.7	1258.1	1264.5
32.5°	8642.5	7751.3	5327.9	1922.8	999.1	981.9	1020.7	1042.4	1081.1	1126.5	1130.8
35°	8420.3	7449.2	4719.5	1359.5	945.2	936.6	962.5	971.1	1007.8	1057.4	1061.7
37.5°	8292.9	7203.1	4091.4	1096.2	908.5	895.5	910.6	910.6	962.5	1035.8	1046.6
40°	8301.5	7067.2	3463.5	990.6	878.2	861.0	863.1	863.1	930.1	1009.9	1016.4
42.5°	8536.8	7101.8	2906.8	949.5	854.5	835.1	824.4	830.8	886.8	938.7	943.0
45°	9089.2	7345.6	2384.5	923.6	830.8	824.4	800.6	798.4	820.0	843.7	843.7
47.5°	9995.6	7826.8	2030.6	906.3	811.4	809.2	781.2	753.2	750.9	759.6	759.6
50°	11469.4	8655.5	1793.3	886.8	798.4	781.2	748.8	705.6	690.5	697.0	697.0
52.5°	13679.1	10133.7	1702.6	861.0	770.4	742.3	705.6	662.4	649.5	651.7	651.7
55°	16577.3	12403.7	1689.7	830.8	740.1	694.9	664.7	632.3	617.2	621.4	621.4
57.5°	20118.5	15543.6	1920.6	783.3	699.1	647.4	630.1	608.6	597.7	604.2	602.0
60°	24423.5	19652.4	2848.5	733.6	658.2	604.2	604.2	586.9	578.3	584.7	582.7
62.5°	29382.4	24371.7	4005.1	697.0	615.0	569.7	578.3	569.7	561.0	565.4	563.2
65°	33780.3	27446.8	3750.6	669.0	571.9	537.3	552.5	548.2	541.6	546.0	543.8
67.5°	33907.6	26307.3	2106.2	638.7	530.9	505.0	526.5	524.3	520.1	524.3	522.3
70°	30260.7	22213.7	1186.9	582.7	487.8	466.1	496.4	494.2	489.8	498.4	496.4
72.5°	24244.4	16119.8	867.5	513.6	444.5	425.1	459.7	457.5	457.5	470.5	464.0
75°	13951.0	8295.1	692.7	440.2	399.3	384.1	414.3	416.5	420.7	438.0	425.1
77.5°	3977.0	2585.2	565.4	373.3	343.1	336.6	366.9	371.2	373.3	392.8	375.6
80°	1478.2	1191.2	466.1	312.9	280.6	282.7	310.8	317.2	319.4	338.8	317.2
82.5°	943.0	785.5	377.6	241.7	220.1	218.0	252.5	261.1	261.1	263.4	250.3
85°	550.2	470.5	284.8	174.9	155.3	148.9	187.7	202.9	196.3	192.1	183.4
87.5°	369.0	323.7	174.9	97.1	84.1	79.9	110.1	120.8	116.6	110.1	103.6
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)