

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: P193005

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42445 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - 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

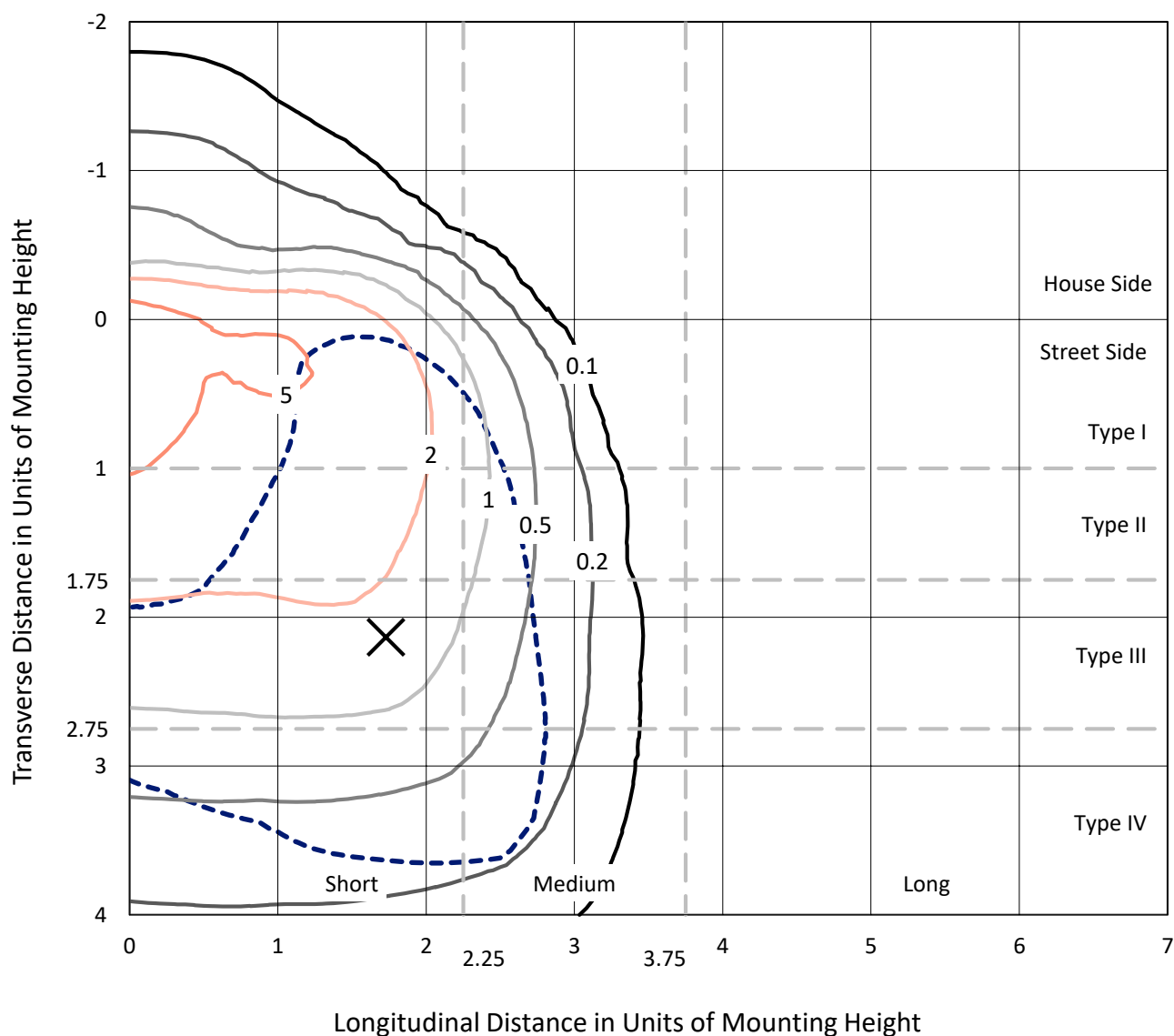


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

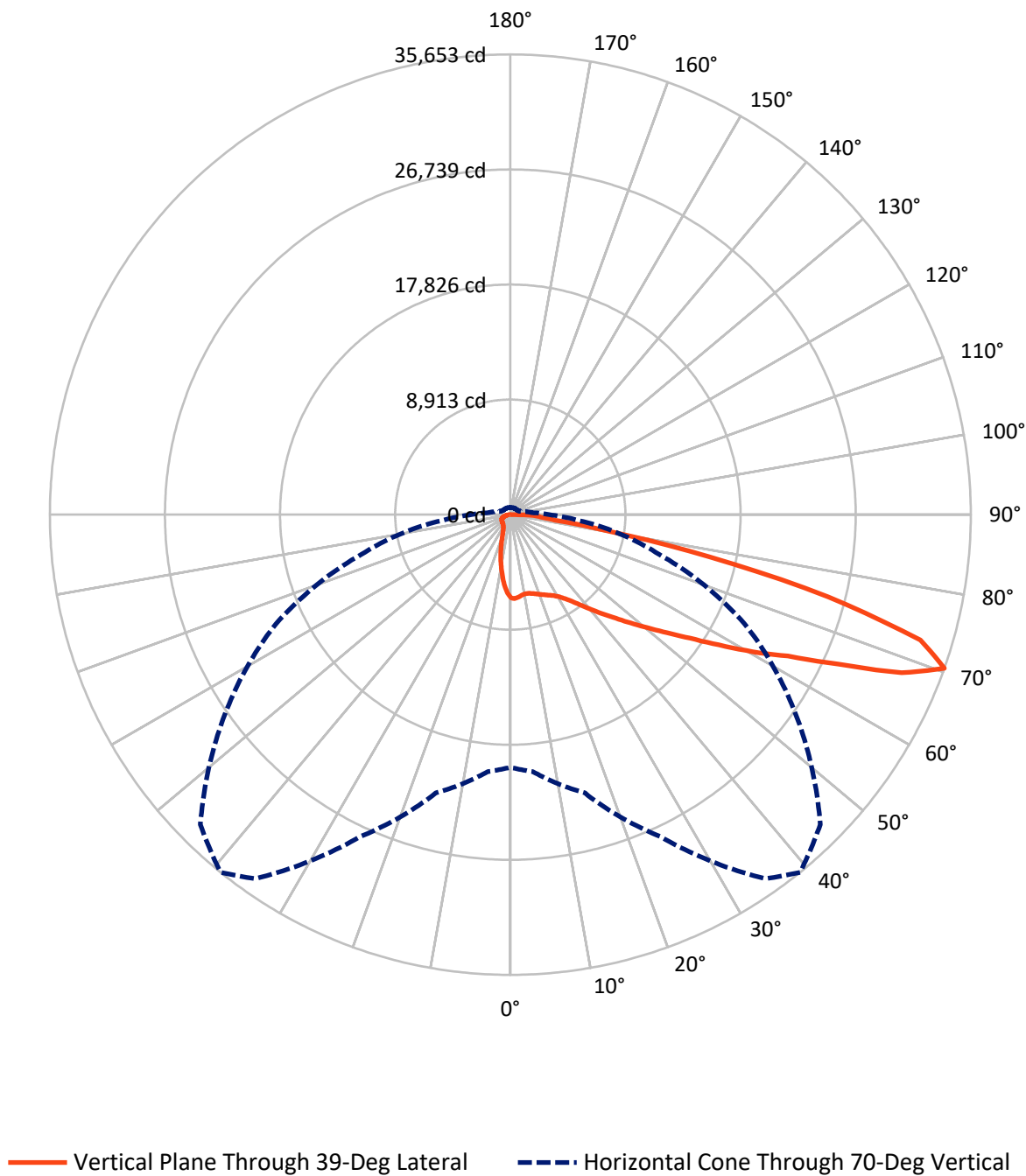


Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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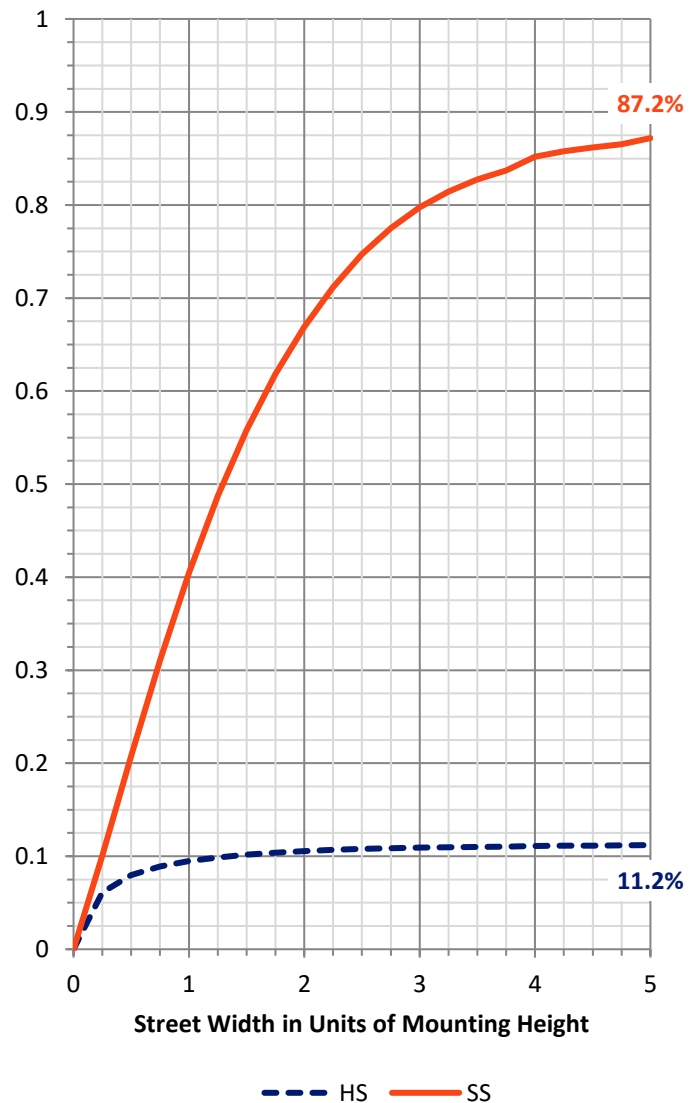
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4827.4	0.0	4827.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	37617.6	0.0	37617.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	42445.0	0.0	42445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.0	1.3
10°-20°	1382.3	3.3
20°-30°	2152.3	5.1
30°-40°	3352.9	7.9
40°-50°	5628.9	13.3
50°-60°	8941.9	21.1
60°-70°	11927.5	28.1
70°-80°	7202.7	17.0
80°-90°	1303.6	3.1
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°	42445.0	100.0
0°-180°	42445.0	100.0

Coefficient of Utilization



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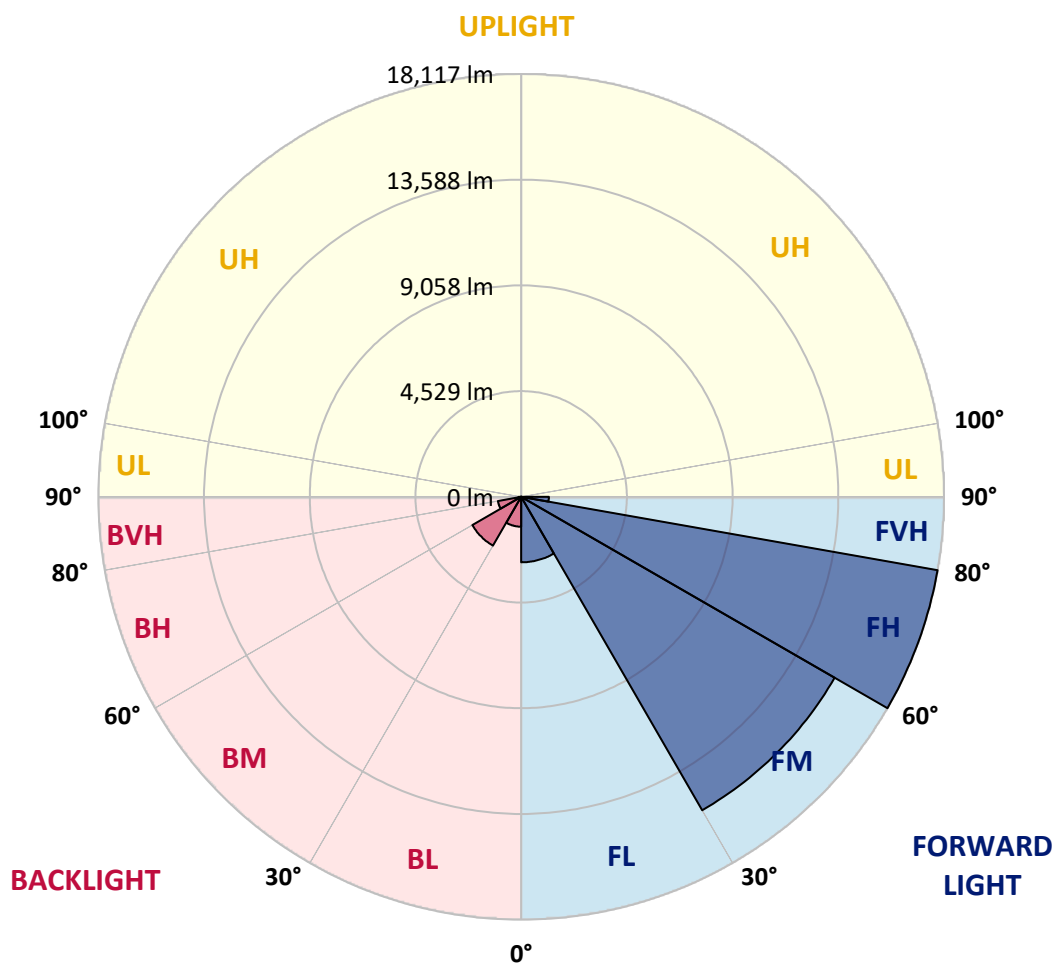
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2806.9	6.6			
FM	(30°-60°)	15507.8	36.5			
FH	(60°-80°)	18116.8	42.7			G5
FVH	(80°-90°)	1186.1	2.8			G5
BL	(0°-30°)	1280.6	3.0	B3/2500		
BM	(30°-60°)	2415.8	5.7	B2/2500		
BH	(60°-80°)	1013.5	2.4	B3/2500		G3/2500
BVH	(80°-90°)	117.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8
2.5°	6569.0	6566.8	6549.5	6536.7	6525.8	6521.4	6530.1	6497.7	6469.7	6435.2	6398.6
5°	6519.4	6517.2	6489.1	6463.2	6437.3	6428.7	6426.5	6368.2	6333.8	6282.0	6212.9
7.5°	6465.4	6454.6	6417.9	6374.7	6329.4	6307.9	6286.2	6210.8	6171.9	6120.1	6040.3
10°	6409.2	6396.4	6361.8	6318.7	6275.6	6243.1	6206.5	6133.0	6092.1	6053.2	5960.4
12.5°	6351.0	6340.2	6331.6	6312.1	6282.0	6253.9	6225.8	6163.4	6120.1	6074.9	5966.8
15°	6342.4	6338.0	6357.5	6370.5	6353.2	6336.0	6305.7	6251.7	6206.5	6161.1	6020.8
17.5°	6411.5	6409.2	6459.0	6493.5	6484.9	6454.6	6413.6	6353.2	6316.5	6277.6	6102.9
20°	6562.5	6573.2	6633.6	6679.0	6635.9	6592.7	6525.8	6441.7	6422.3	6405.0	6187.1
22.5°	6847.4	6858.2	6901.4	6918.7	6806.3	6743.8	6650.9	6543.1	6530.1	6543.1	6288.4
25°	7292.0	7281.1	7274.7	7209.9	7004.9	6907.8	6789.1	6676.9	6683.4	6741.7	6430.9
27.5°	7881.1	7822.8	7732.2	7537.9	7212.1	7104.1	6959.6	6856.0	6897.0	7009.2	6644.5
30°	8491.7	8427.0	8217.7	7900.4	7483.9	7365.2	7203.5	7086.9	7194.8	7371.7	6929.3
32.5°	9057.1	9048.6	8742.1	8334.2	7859.4	7755.9	7594.1	7462.4	7637.2	7907.0	7356.7
35°	9674.4	9693.8	9326.9	8837.0	8366.6	8258.7	8142.2	8042.9	8276.0	8647.1	7976.0
37.5°	10334.8	10373.5	9939.8	9387.3	8944.9	8899.6	8830.6	8787.4	9147.8	9661.4	8841.4
40°	11217.3	11178.6	10576.4	10008.8	9654.9	9652.7	9631.2	9683.0	10282.9	10986.4	9952.8
42.5°	12162.5	12048.1	11251.8	10675.7	10433.9	10507.4	10550.5	10762.0	11648.9	12596.3	11308.0
45°	13181.1	12924.3	11953.2	11381.3	11299.4	11454.7	11601.4	12061.1	13256.7	14428.4	12792.7
47.5°	13994.7	13746.6	12678.3	12121.6	12300.6	12535.9	12818.7	13545.9	15056.5	16321.0	14258.0
50°	14635.6	14473.8	13409.8	12984.7	13403.4	13765.9	14227.7	15226.9	16929.6	18164.0	15615.4
52.5°	15257.1	15136.2	14147.9	13869.5	14698.2	15198.8	15826.9	17031.0	18850.2	19976.6	16757.0
55°	15818.2	15731.9	14942.1	14972.3	16221.7	16873.5	17663.3	19085.4	20943.5	21593.0	17723.7
57.5°	16450.5	16340.5	15848.4	16355.6	18179.1	19025.0	20052.3	21394.5	22907.3	23030.3	18459.6
60°	17087.2	16992.1	16854.0	17952.5	20665.1	21554.2	22527.4	23632.3	24899.1	24146.0	18416.4
62.5°	17639.6	17650.4	17894.3	19629.3	23099.4	24128.7	25315.6	26407.5	26701.0	24340.2	17054.8
65°	18576.1	18746.6	19473.9	22003.0	26526.3	27903.0	29359.7	29184.9	27199.5	22525.3	14135.0
67.5°	19689.7	19989.6	21463.6	25166.7	30857.3	32685.2	33248.4	29812.9	25203.4	18310.8	10075.8
70°	19577.4	19989.6	22322.4	27525.3	34426.7	35652.5	33943.3	26981.6	20013.3	11961.8	5351.8
72.5°	17384.9	17974.0	20572.3	26444.2	33302.4	33194.5	29467.7	20114.8	11890.5	4803.7	2091.1
75°	13250.2	13845.8	16081.5	20891.7	26321.2	25414.9	20909.0	11111.5	4512.4	1907.6	1318.5
77.5°	7622.0	8083.9	9810.3	12812.1	16698.6	15768.7	11638.2	4941.8	2196.8	1329.3	1029.3
80°	4255.5	4512.4	5561.2	6500.0	8183.2	7501.2	5207.3	3070.8	1640.1	964.6	794.1
82.5°	3364.3	3593.1	4497.3	4100.2	3737.6	3448.6	2991.0	2734.2	1309.9	608.6	474.7
85°	2939.2	3157.1	3806.7	3228.4	2553.0	2341.4	2429.9	2691.0	1018.7	366.9	405.7
87.5°	2723.4	3014.8	3392.4	2488.2	1987.5	1760.9	2242.2	2950.0	328.0	228.8	164.0
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°	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8	6443.8
2.5°	6366.1	6331.6	6275.6	6225.8	6148.1	6107.1	6061.8	6029.5	6003.6	5982.1	6016.6
5°	6169.8	6105.0	5986.4	5859.0	5707.9	5589.2	5489.9	5397.2	5332.4	5289.2	5319.5
7.5°	5984.1	5878.3	5692.9	5461.9	5202.9	4982.9	4801.6	4641.9	4531.8	4460.6	4488.7
10°	5878.3	5746.8	5459.8	5097.2	4715.3	4372.1	4087.3	3841.2	3670.8	3573.7	3588.7
12.5°	5852.5	5682.0	5285.0	4786.4	4264.3	3787.3	3386.0	3044.9	2805.4	2680.2	2684.6
15°	5871.9	5653.9	5121.0	4488.7	3828.3	3226.2	2725.6	2311.3	2032.9	1890.4	1888.2
17.5°	5904.3	5632.5	4948.4	4167.1	3386.0	2686.6	2127.9	1722.2	1476.1	1361.7	1353.0
20°	5938.8	5597.9	4754.1	3819.7	2926.3	2186.1	1665.9	1348.8	1193.3	1130.9	1126.5
22.5°	5988.5	5567.7	4553.4	3452.8	2475.3	1780.4	1370.3	1156.7	1074.7	1042.4	1038.0
25°	6068.4	5552.5	4339.8	3070.8	2069.5	1488.9	1193.3	1061.8	1014.3	992.7	990.6
27.5°	6202.1	5574.2	4139.1	2699.7	1739.4	1292.6	1094.1	1014.3	979.7	960.3	958.2
30°	6374.7	5641.0	3927.6	2347.9	1482.5	1158.8	1033.7	981.9	953.9	934.3	934.3
32.5°	6661.7	5753.3	3705.3	2043.5	1299.1	1066.1	988.4	953.9	930.2	915.0	912.9
35°	7084.7	5964.8	3498.2	1791.2	1167.4	999.1	949.6	923.7	906.5	897.8	897.8
37.5°	7699.8	6299.3	3314.7	1609.8	1087.6	953.9	912.9	893.4	882.6	882.6	882.6
40°	8526.3	6761.1	3165.8	1488.9	1042.4	921.5	884.8	869.7	863.2	865.4	865.4
42.5°	9547.1	7361.1	3066.6	1404.8	1020.7	902.1	865.4	852.4	845.8	843.8	845.8
45°	10710.2	8042.9	3055.8	1342.2	999.1	889.2	852.4	839.4	826.5	818.0	818.0
47.5°	11841.0	8735.6	3144.3	1320.7	975.4	874.0	841.7	828.6	809.3	789.8	789.8
50°	12840.1	9324.7	3262.9	1329.3	966.8	852.4	824.4	818.0	787.6	766.1	763.9
52.5°	13634.4	9777.9	3360.0	1355.3	975.4	837.3	802.7	804.9	772.6	748.9	746.7
55°	14270.9	10075.8	3334.1	1381.1	994.8	828.6	783.4	787.6	761.7	738.0	738.0
57.5°	14549.3	9965.6	3047.1	1359.5	1010.0	830.8	768.2	785.5	763.9	742.3	742.3
60°	13951.6	8988.1	2509.8	1264.5	990.6	824.4	761.7	794.1	792.0	770.4	768.2
62.5°	12143.1	7238.0	1946.6	1124.3	923.7	792.0	744.5	792.0	815.7	809.3	807.1
65°	9359.2	5155.5	1486.9	973.3	833.0	738.0	699.1	742.3	774.7	783.4	781.2
67.5°	6074.9	3159.3	1145.9	830.8	731.6	675.4	641.0	660.4	666.8	666.8	662.5
70°	2986.7	1700.5	912.9	699.1	628.0	608.6	589.1	578.3	567.6	559.0	559.0
72.5°	1473.9	1111.3	750.9	591.3	541.7	533.0	528.7	515.8	507.2	496.4	492.0
75°	1089.8	904.2	638.7	498.6	466.1	457.5	466.1	455.4	453.2	444.5	440.2
77.5°	895.6	770.4	550.3	427.3	399.3	384.1	397.0	399.3	401.4	388.4	384.1
80°	727.2	651.7	459.7	353.9	328.0	317.2	325.8	343.1	347.5	328.0	319.4
82.5°	524.5	533.0	371.2	276.2	254.7	246.1	263.4	284.8	289.2	261.1	254.7
85°	440.2	444.5	284.8	196.3	174.9	161.8	189.9	211.5	226.6	198.6	192.1
87.5°	183.4	261.1	164.0	110.1	97.1	84.1	101.4	112.2	135.9	125.2	123.0
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)