

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: P455247

Luminaire Tested: **GALN-SA6B-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 26246 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 243
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: 24 FT

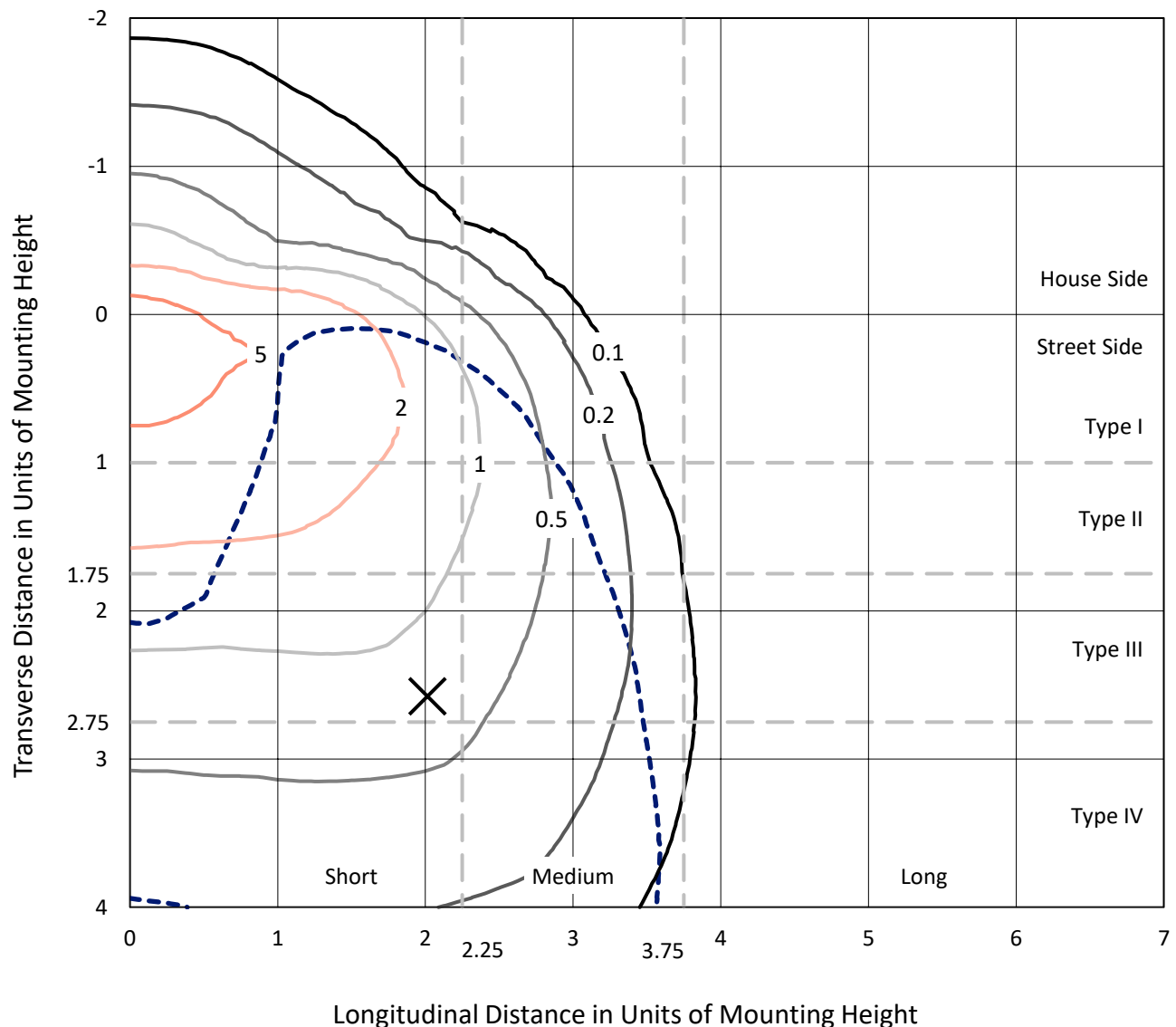


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Iso-Footcandle Lines of Horizontal Illumination

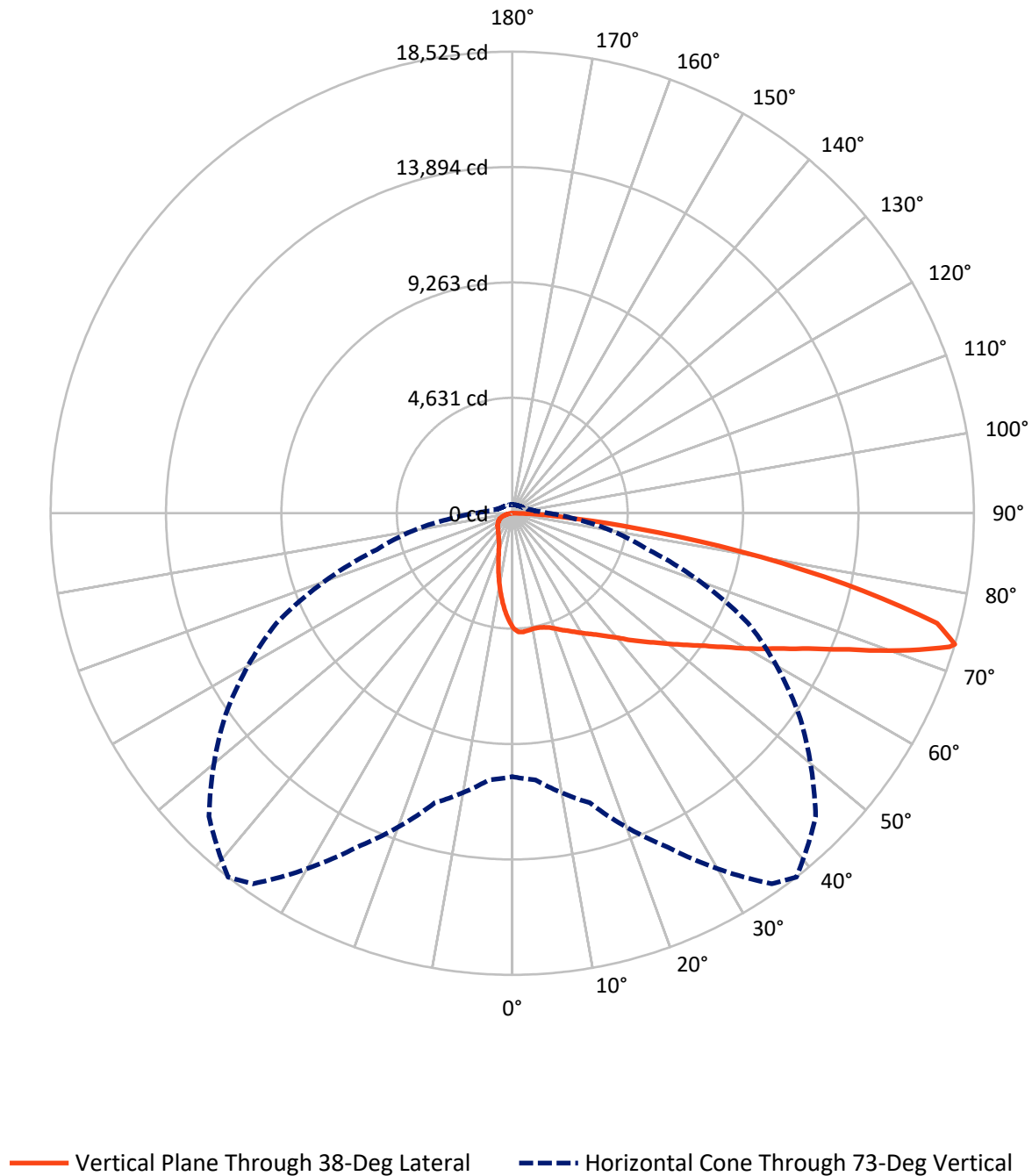
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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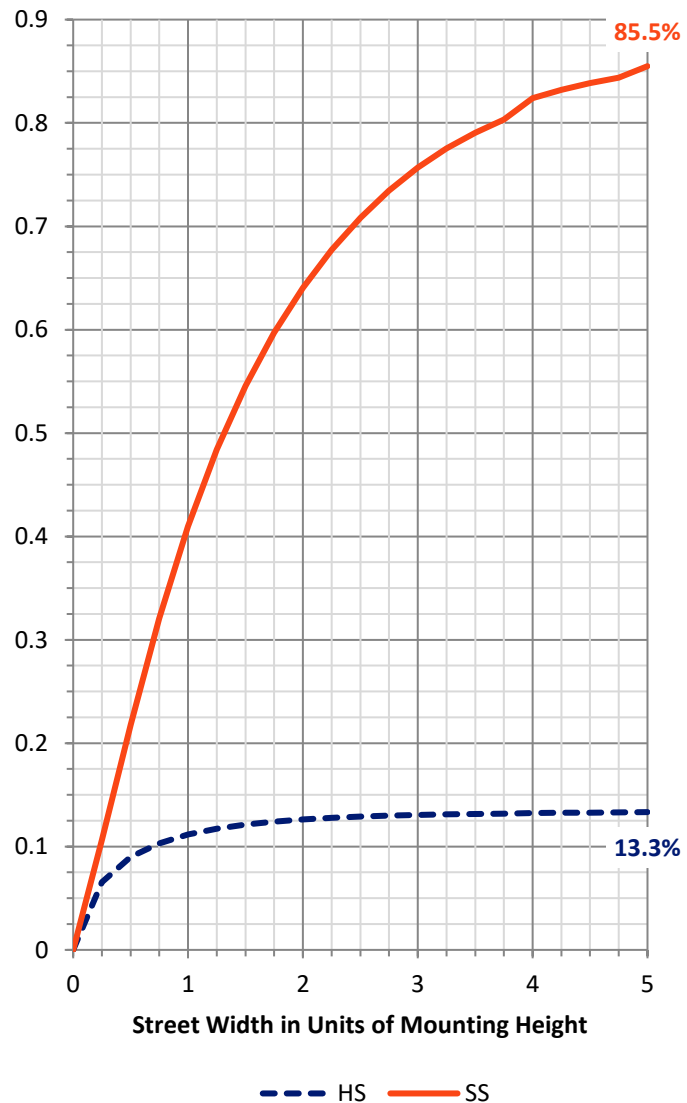
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3528.2	0.0	3528.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22717.8	0.0	22717.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	26246.0	0.0	26246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.5	1.5
10°-20°	1032.1	3.9
20°-30°	1607.2	6.1
30°-40°	2357.4	9.0
40°-50°	3496.9	13.3
50°-60°	4954.4	18.9
60°-70°	6284.8	23.9
70°-80°	5231.7	19.9
80°-90°	879.0	3.3
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°	26246.0	100.0
0°-180°	26246.0	100.0

Coefficient of Utilization



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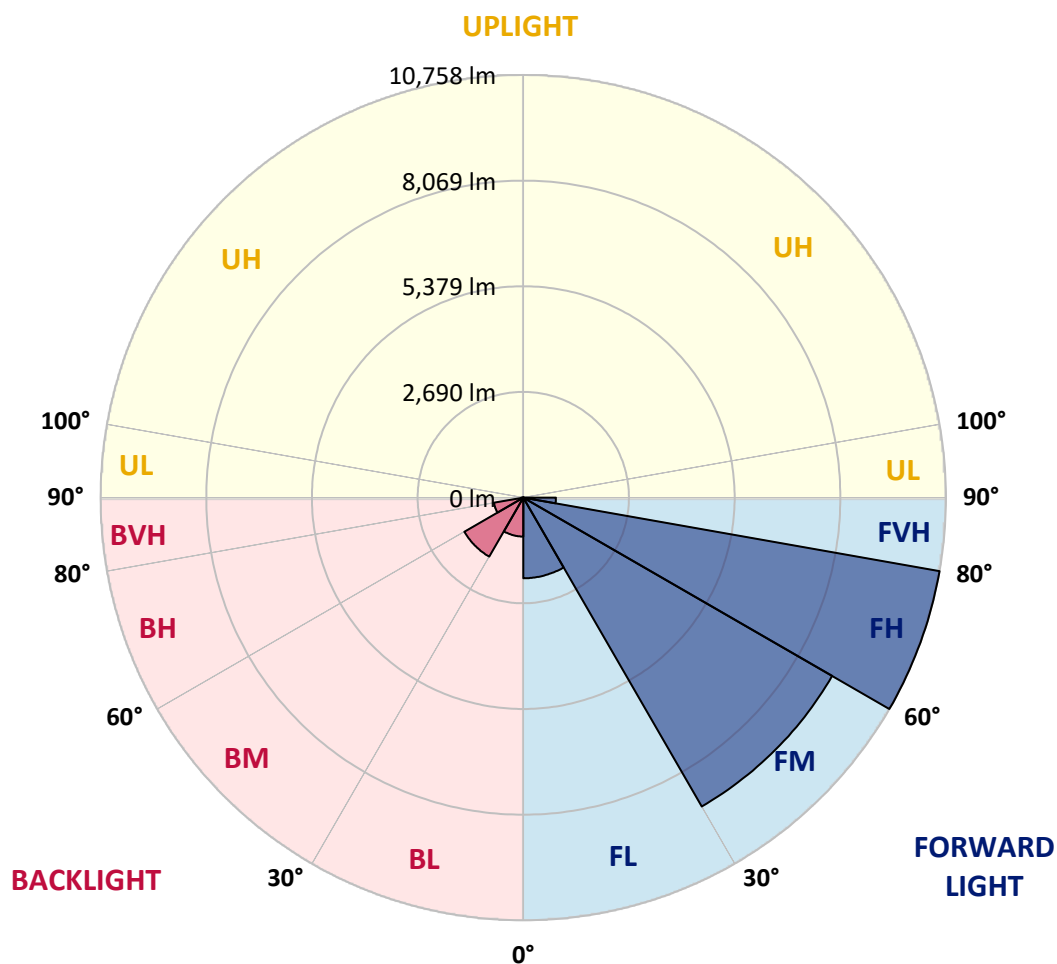
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2051.7	7.8			
FM	(30°-60°)	9076.6	34.6			
FH	(60°-80°)	10758.1	41.0			G4/12000
FVH	(80°-90°)	831.3	3.2			G5
BL	(0°-30°)	990.1	3.8	B2/1000		
BM	(30°-60°)	1732.1	6.6	B2/2500		
BH	(60°-80°)	758.4	2.9	B2/1000		G2/1000
BVH	(80°-90°)	47.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0
2.5°	4796.2	4820.0	4808.1	4791.8	4781.4	4771.0	4756.2	4713.2	4679.2	4642.1	4584.3
5°	4831.8	4846.6	4836.3	4815.5	4791.8	4781.4	4753.3	4696.9	4642.1	4579.9	4493.9
7.5°	4811.1	4817.0	4805.1	4779.9	4759.2	4739.9	4707.3	4645.1	4578.4	4502.8	4390.1
10°	4737.0	4759.2	4759.2	4738.4	4717.7	4707.3	4674.7	4615.4	4554.7	4468.7	4335.3
12.5°	4676.2	4699.9	4719.2	4713.2	4711.8	4711.8	4686.6	4642.1	4571.0	4489.4	4330.9
15°	4634.7	4662.9	4704.4	4728.1	4742.9	4747.3	4737.0	4698.4	4625.8	4530.9	4348.6
17.5°	4625.8	4659.9	4735.5	4787.4	4825.9	4824.4	4821.4	4768.1	4688.0	4590.2	4370.9
20°	4665.8	4710.3	4815.5	4897.0	4953.4	4943.0	4926.7	4857.0	4763.6	4654.0	4391.6
22.5°	4785.9	4831.8	4947.4	5036.4	5091.2	5091.2	5042.3	4950.4	4851.1	4728.1	4419.8
25°	4957.8	5008.2	5131.2	5221.6	5246.8	5227.6	5178.6	5067.5	4953.4	4834.8	4479.1
27.5°	5168.3	5229.0	5343.2	5418.8	5411.3	5396.5	5346.1	5203.8	5089.7	4981.5	4579.9
30°	5430.6	5475.1	5593.6	5611.4	5584.8	5581.8	5510.6	5368.4	5261.6	5178.6	4723.6
32.5°	5678.1	5718.1	5813.0	5820.4	5773.0	5778.9	5712.2	5581.8	5521.0	5491.4	4965.2
35°	5940.5	5961.2	6042.7	6033.8	6002.7	5998.3	5971.6	5847.1	5866.4	5919.7	5307.6
37.5°	6159.8	6201.3	6247.3	6254.7	6253.2	6268.0	6285.8	6226.5	6337.7	6505.2	5756.7
40°	6361.4	6397.0	6465.2	6488.9	6546.7	6576.3	6637.1	6638.6	6895.0	7170.7	6309.5
42.5°	6497.8	6558.5	6686.0	6729.0	6869.8	6958.7	7049.1	7145.5	7517.5	7871.7	6961.7
45°	6616.3	6696.4	6908.3	7041.7	7232.9	7341.1	7532.3	7733.9	8268.9	8732.8	7624.2
47.5°	6795.7	6866.8	7109.9	7345.5	7634.6	7759.1	8045.1	8346.0	9045.6	9554.0	8258.6
50°	7044.7	7087.7	7335.2	7719.1	8088.1	8248.2	8626.1	9060.4	9875.6	10364.7	8815.8
52.5°	7363.3	7381.1	7578.2	8089.6	8575.7	8774.3	9275.3	9782.2	10601.8	11068.7	9257.5
55°	7739.8	7710.2	7864.3	8482.4	9133.0	9392.4	9930.4	10512.9	11418.5	11637.9	9579.2
57.5°	8111.8	8065.9	8188.9	8959.6	9820.7	10133.5	10760.4	11265.8	12147.7	12170.0	9804.4
60°	8506.1	8472.0	8618.7	9519.9	10664.1	11034.6	11614.1	12046.9	12853.2	12540.5	9840.0
62.5°	8910.7	8855.9	9064.8	10149.8	11614.1	11950.6	12512.3	12876.9	13545.4	12678.3	9497.6
65°	9303.5	9278.3	9601.4	10898.3	12696.1	13078.5	13623.9	13871.5	14099.7	12470.8	8648.4
67.5°	9721.4	9771.8	10287.6	11897.2	14107.1	14587.3	15175.8	14943.1	14258.3	11488.2	7283.3
70°	10358.8	10391.4	11188.8	13206.0	15925.7	16505.3	16789.8	15324.0	13493.5	9622.1	5475.1
72.5°	10633.0	10776.7	11993.6	14579.9	17991.9	18346.1	17332.3	14474.7	11240.6	6536.3	2876.9
73°	10572.2	10744.1	12030.6	14788.9	18153.4	18525.4	17216.7	14037.5	10449.2	5629.2	2466.3
75°	9814.8	10026.8	11548.9	14614.0	17839.2	17616.9	15358.1	11963.9	7061.0	2559.7	1123.5
77.5°	7744.2	7805.0	9150.8	11800.9	14047.8	13635.8	11494.1	7477.5	2884.3	951.5	637.3
80°	3884.7	4108.5	5157.9	6760.1	9393.9	9259.0	7255.1	3536.4	1202.0	558.8	422.4
82.5°	1869.0	2027.6	2512.2	3296.3	5190.5	5067.5	3592.7	1932.7	763.3	326.1	249.0
85°	1203.5	1322.1	1599.2	1572.6	2134.3	2038.0	1614.1	1462.9	452.1	170.4	173.4
87.5°	794.4	870.0	1043.4	834.5	776.6	702.5	712.9	824.1	88.9	65.2	23.7
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°	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0
2.5°	4560.6	4541.3	4477.6	4415.3	4356.0	4299.7	4262.7	4213.8	4181.2	4190.0	4203.4
5°	4446.5	4403.5	4290.8	4181.2	4077.4	3954.4	3855.1	3775.0	3714.3	3692.0	3687.6
7.5°	4326.4	4253.8	4092.2	3904.0	3727.6	3575.0	3398.6	3311.1	3208.9	3173.3	3161.4
10°	4253.8	4156.0	3929.2	3666.8	3401.5	3148.1	2956.9	2801.3	2660.5	2633.8	2620.4
12.5°	4233.0	4104.1	3798.8	3460.8	3108.1	2796.8	2513.7	2309.2	2172.8	2141.7	2095.8
15°	4221.2	4061.1	3677.2	3253.3	2805.7	2426.3	2128.4	1889.7	1765.2	1682.2	1683.7
17.5°	4210.8	4012.2	3540.9	3026.6	2544.9	2107.6	1778.6	1563.7	1449.5	1405.1	1400.6
20°	4196.0	3954.4	3383.8	2787.9	2246.9	1817.1	1519.2	1359.1	1282.1	1245.0	1243.5
22.5°	4190.0	3898.1	3229.6	2544.9	1983.1	1593.3	1347.3	1234.6	1185.7	1160.5	1160.5
25°	4204.9	3858.0	3068.1	2313.6	1748.9	1402.1	1228.7	1151.6	1123.5	1110.1	1105.7
27.5°	4250.8	3840.3	2908.0	2082.4	1534.0	1271.7	1148.7	1095.3	1074.6	1064.2	1065.7
30°	4338.3	3838.8	2750.9	1854.2	1374.0	1172.4	1084.9	1047.9	1031.6	1025.6	1024.2
32.5°	4479.1	3871.4	2596.7	1665.9	1239.1	1089.4	1025.6	999.0	991.6	987.1	985.6
35°	4717.7	3963.3	2444.1	1494.0	1135.3	1015.3	969.3	956.0	945.6	950.1	951.5
37.5°	5039.3	4121.9	2298.8	1359.1	1056.8	960.4	921.9	910.0	904.1	908.6	913.0
40°	5470.6	4350.1	2177.3	1250.9	1000.5	914.5	880.4	870.0	864.1	871.5	873.0
42.5°	5946.4	4613.9	2076.5	1166.5	954.5	876.0	843.3	831.5	827.0	831.5	833.0
45°	6435.5	4920.7	2024.6	1105.7	916.0	847.8	813.7	800.4	790.0	787.0	791.5
47.5°	6917.2	5187.5	2023.1	1068.6	884.8	822.6	785.5	770.7	757.4	750.0	748.5
50°	7310.0	5399.5	2058.7	1052.3	858.2	794.4	757.4	742.6	724.8	710.0	712.9
52.5°	7606.4	5537.3	2075.0	1044.9	843.3	764.8	727.7	714.4	693.6	674.4	674.4
55°	7797.6	5569.9	2035.0	1037.5	831.5	733.7	693.6	681.8	661.0	641.8	641.8
57.5°	7862.8	5469.1	1891.2	1019.7	819.6	707.0	659.6	649.2	632.9	613.6	610.6
60°	7711.6	5128.2	1639.3	966.4	795.9	678.8	622.5	618.1	612.1	595.8	594.3
62.5°	7129.2	4405.0	1365.1	896.7	755.9	649.2	588.4	595.8	600.3	591.4	589.9
65°	6159.8	3576.4	1166.5	800.4	702.5	607.7	551.4	570.6	582.5	582.5	579.5
67.5°	4996.3	2746.4	982.7	717.4	635.8	551.4	509.9	524.7	533.6	530.6	538.0
70°	3551.2	1860.1	800.4	622.5	551.4	487.6	456.5	456.5	450.6	447.6	447.6
72.5°	1722.3	1062.7	649.2	520.2	469.8	416.5	391.3	380.9	369.1	367.6	360.2
73°	1439.2	953.0	619.5	501.0	450.6	406.1	377.9	361.6	354.2	348.3	346.8
75°	876.0	723.3	517.3	422.4	383.9	349.8	324.6	309.8	302.4	297.9	296.4
77.5°	576.6	539.5	401.7	323.1	293.5	272.7	262.3	247.5	243.1	237.1	237.1
80°	429.8	412.0	287.5	228.3	210.5	192.7	189.7	186.8	174.9	167.5	164.5
82.5°	277.2	293.5	195.6	152.7	133.4	118.6	120.1	124.5	112.6	102.3	99.3
85°	197.1	211.9	118.6	69.7	56.3	48.9	54.8	48.9	50.4	40.0	32.6
87.5°	32.6	56.3	20.8	8.9	4.4	3.0	0.0	0.0	0.0	0.0	0.0
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)