

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: P454317

Luminaire Tested: **GALN-SA5B-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22444 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): 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

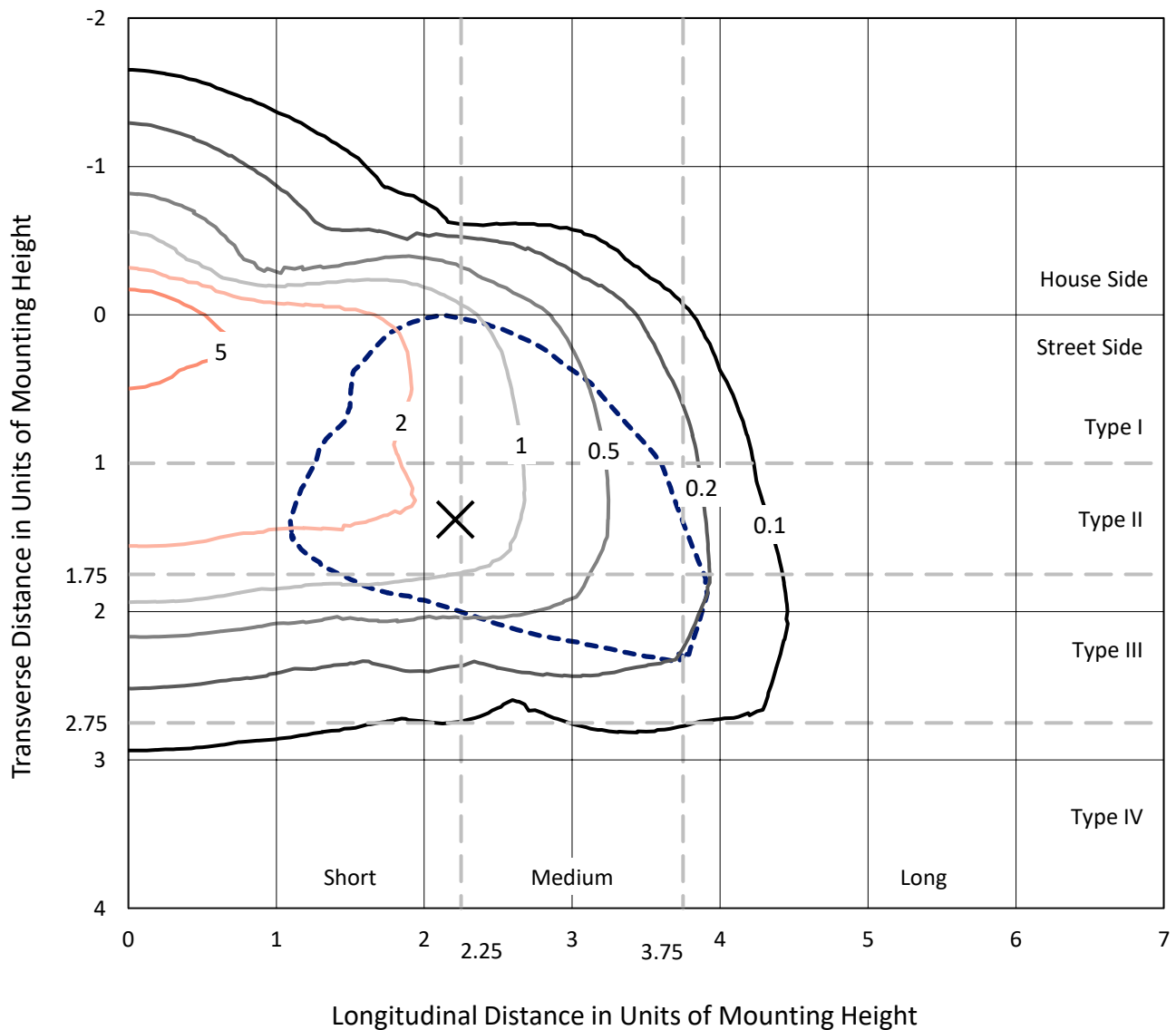


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

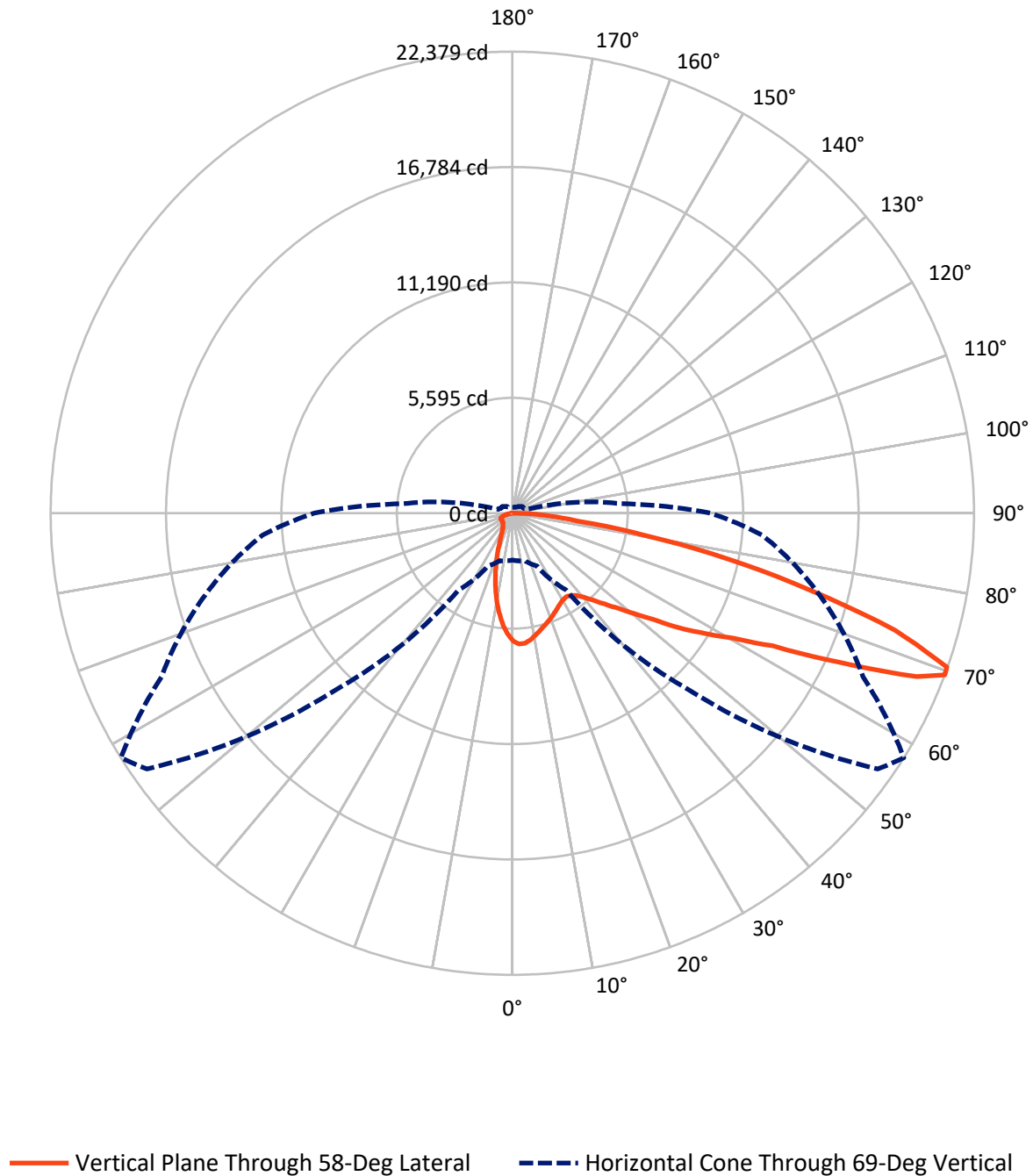


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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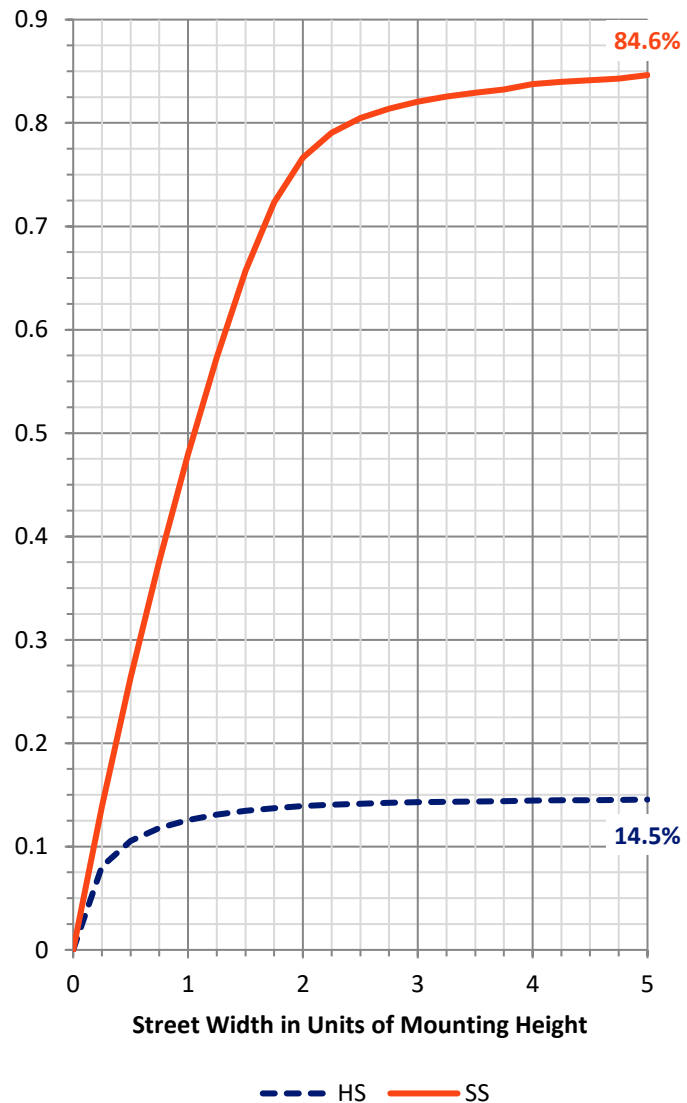
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3289.2	0.0	3289.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19154.8	0.0	19154.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	22444.0	0.0	22444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.7	2.3
10°-20°	1156.6	5.2
20°-30°	1494.3	6.7
30°-40°	1940.8	8.6
40°-50°	2821.7	12.6
50°-60°	4502.5	20.1
60°-70°	6014.8	26.8
70°-80°	3467.3	15.4
80°-90°	519.3	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°	22444.0	100.0
0°-180°	22444.0	100.0

Coefficient of Utilization



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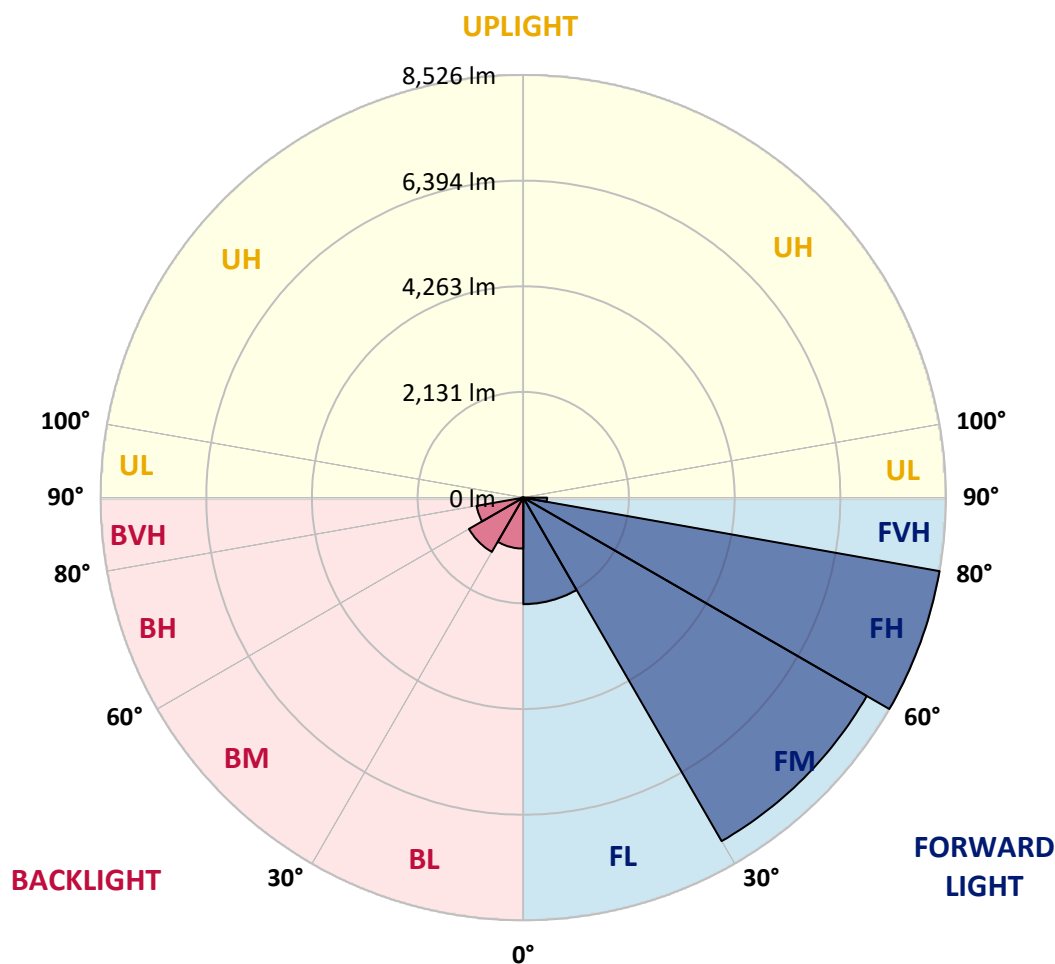
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2149.6	9.6			
FM	(30°-60°)	8000.1	35.6			
FH	(60°-80°)	8525.6	38.0			G4/12000
FVH	(80°-90°)	479.5	2.1			G3/500
BL	(0°-30°)	1028.1	4.6	B3/2500		
BM	(30°-60°)	1264.9	5.6	B2/2500		
BH	(60°-80°)	956.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	39.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2
2.5°	6432.5	6450.0	6445.0	6438.8	6428.8	6401.2	6356.2	6348.7	6319.9	6258.5	6182.2
5°	6333.6	6348.7	6349.9	6358.7	6371.2	6366.2	6333.6	6329.9	6287.3	6204.7	6077.0
7.5°	5994.4	6014.5	6058.3	6107.1	6150.9	6192.2	6202.2	6208.5	6182.2	6087.1	5916.8
10°	5612.7	5632.7	5652.7	5725.3	5833.0	5935.6	6020.7	6032.0	6038.2	5950.6	5742.8
12.5°	5189.6	5230.9	5273.4	5381.1	5525.0	5686.5	5836.7	5860.5	5903.0	5836.7	5592.6
15°	4830.3	4872.9	4934.2	5030.6	5204.6	5437.4	5649.0	5687.8	5771.6	5737.8	5452.4
17.5°	4581.2	4596.3	4638.8	4749.0	4936.7	5182.1	5465.0	5542.6	5676.5	5667.7	5332.3
20°	4384.7	4403.5	4429.8	4497.4	4692.6	4951.8	5293.5	5393.6	5575.1	5605.1	5213.4
22.5°	4302.1	4315.9	4312.1	4348.4	4481.1	4741.5	5119.5	5238.4	5485.0	5562.6	5103.2
25°	4307.1	4319.6	4300.9	4292.1	4371.0	4556.2	4938.0	5089.4	5412.4	5533.8	5003.1
27.5°	4391.0	4399.7	4364.7	4329.7	4335.9	4441.1	4787.8	4955.5	5351.0	5546.3	4919.2
30°	4503.6	4519.9	4497.4	4454.8	4408.5	4413.5	4691.4	4856.6	5322.3	5590.1	4879.2
32.5°	4648.8	4663.9	4653.8	4620.1	4560.0	4493.6	4667.6	4820.3	5324.8	5679.0	4870.4
35°	4801.5	4831.6	4847.9	4845.4	4796.5	4681.4	4761.5	4887.9	5384.8	5827.9	4921.7
37.5°	4974.3	4999.3	5069.4	5114.5	5069.4	4935.5	4973.0	5060.7	5517.5	6043.2	5034.4
40°	5142.0	5179.6	5282.2	5422.4	5404.9	5287.2	5296.0	5353.6	5751.6	6363.7	5254.7
42.5°	5317.3	5362.3	5541.3	5749.1	5790.4	5699.0	5722.8	5774.1	6084.5	6808.0	5632.7
45°	5542.6	5596.4	5816.7	6075.8	6238.5	6182.2	6249.8	6274.8	6530.2	7386.3	6130.9
47.5°	5833.0	5895.5	6167.2	6490.1	6720.4	6771.7	6889.4	6874.4	7082.2	8071.0	6776.7
50°	6322.4	6357.4	6614.0	6943.2	7259.9	7491.5	7619.1	7642.9	7766.8	8736.9	7499.0
52.5°	6904.4	6935.7	7121.0	7408.9	7805.6	8296.3	8611.7	8534.1	8564.2	9548.0	8343.9
55°	7559.1	7611.6	7729.3	7920.8	8435.3	9157.5	9790.9	9809.6	9476.7	10324.1	9153.7
57.5°	8066.0	8154.9	8356.4	8629.3	9281.4	10115.0	10966.2	10978.7	10553.1	11152.7	10047.5
60°	7810.7	7915.8	8376.4	9041.1	10391.7	11786.1	12370.6	12299.3	11600.8	12096.5	11137.7
62.5°	6709.1	6727.9	7397.6	8436.5	10733.4	14021.6	14461.0	14159.3	12999.0	13293.1	12245.4
65°	4342.2	4464.8	4995.6	6451.3	9610.6	15262.1	18123.5	17426.3	14959.1	14651.2	13173.0
67.5°	2741.2	2709.9	2930.2	3683.8	6610.3	14169.3	21249.0	21138.8	17522.6	15508.6	12951.4
69°	2273.1	2308.1	2383.2	2823.9	4548.7	12097.7	21618.2	22379.3	18765.6	15441.1	12146.6
70°	2061.6	2077.8	2156.7	2503.4	3509.8	10132.6	21012.4	22345.5	19253.8	15158.2	11563.3
72.5°	1636.0	1634.7	1769.9	2082.8	2623.6	5784.1	17253.5	19400.2	18708.0	13841.4	9554.3
75°	1242.9	1263.0	1411.9	1762.4	2417.0	3160.6	12040.2	14940.4	14941.6	10932.4	5961.9
77.5°	896.2	908.7	1082.7	1479.5	2276.9	2562.2	8019.7	10715.9	10073.7	5009.3	1873.8
80°	587.1	594.6	727.2	1171.6	2052.8	2417.0	4755.2	6558.9	4751.5	1329.3	619.6
82.5°	321.7	359.2	444.4	758.5	1647.2	2233.0	2890.2	3319.5	1782.4	592.1	322.9
85°	161.5	171.5	250.3	443.1	1076.5	1847.5	2012.7	1903.8	920.0	294.2	167.7
87.5°	47.6	60.1	103.9	171.5	436.8	962.6	1120.3	1005.1	354.2	106.4	35.0
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°	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2	6202.2
2.5°	6150.9	6128.4	6028.2	5938.1	5855.5	5767.9	5694.0	5628.9	5635.2	5636.4	5570.1
5°	6010.7	5959.4	5769.1	5591.4	5441.2	5250.9	5088.2	4983.0	4930.5	4860.4	4885.4
7.5°	5820.4	5721.6	5457.4	5162.0	4885.4	4638.8	4371.0	4187.0	4069.3	3955.4	3970.4
10°	5623.9	5465.0	5080.7	4690.1	4332.2	3937.9	3596.2	3303.3	3085.5	3004.1	2950.3
12.5°	5422.4	5213.4	4725.2	4205.7	3711.3	3239.4	2755.0	2440.8	2200.5	2072.8	2089.1
15°	5238.4	4984.3	4354.7	3721.3	3079.2	2517.2	2034.0	1734.9	1567.1	1532.1	1552.1
17.5°	5068.2	4735.2	4008.0	3250.7	2500.9	1887.6	1528.3	1359.4	1291.8	1273.0	1271.7
20°	4892.9	4523.7	3618.7	2747.5	1948.9	1463.2	1254.2	1175.4	1162.8	1170.3	1171.6
22.5°	4715.2	4262.1	3218.1	2248.1	1552.1	1196.6	1096.5	1075.2	1085.2	1102.8	1105.3
25°	4551.2	4031.7	2832.6	1810.0	1239.2	1051.4	1002.6	1002.6	1025.1	1051.4	1052.7
27.5°	4416.0	3808.9	2448.3	1437.0	1037.7	946.3	930.0	938.8	970.1	990.1	991.4
30°	4304.6	3601.2	2085.3	1151.6	912.5	862.4	858.7	873.7	896.2	915.0	916.2
32.5°	4220.8	3418.4	1746.1	967.6	826.1	798.6	797.3	808.6	821.1	826.1	831.1
35°	4188.2	3267.0	1435.7	851.2	768.5	751.0	751.0	749.8	754.8	757.3	759.8
37.5°	4214.5	3150.5	1195.4	776.1	726.0	713.5	706.0	698.5	695.9	695.9	697.2
40°	4325.9	3089.2	1016.4	727.2	695.9	677.2	663.4	654.6	645.9	648.4	650.9
42.5°	4562.5	3100.5	895.0	694.7	669.7	643.4	623.4	613.3	607.1	614.6	613.3
45°	4939.2	3213.1	817.4	672.2	643.4	609.6	590.8	580.8	580.8	592.1	595.8
47.5°	5466.2	3428.4	776.1	654.6	623.4	583.3	564.5	557.0	559.5	578.3	579.5
50°	6109.6	3802.7	768.5	645.9	613.3	564.5	543.2	535.7	542.0	562.0	564.5
52.5°	6819.3	4284.6	804.8	647.1	604.6	553.3	525.7	514.5	520.7	537.0	542.0
55°	7660.4	4887.9	898.7	652.1	592.1	547.0	513.2	488.2	495.7	506.9	508.2
57.5°	8519.1	5649.0	1064.0	653.4	582.0	535.7	491.9	459.4	459.4	466.9	470.6
60°	9568.0	6477.6	1281.7	654.6	583.3	519.5	463.1	426.8	421.8	425.6	426.8
62.5°	10609.5	7171.0	1318.0	650.9	595.8	503.2	431.8	394.3	385.5	384.3	381.8
65°	11068.8	7042.1	1080.2	633.4	609.6	493.2	406.8	363.0	348.0	343.0	343.0
67.5°	10320.3	5956.9	812.4	609.6	600.8	483.2	383.0	336.7	319.2	309.2	309.2
69°	9616.9	5298.5	729.7	593.3	578.3	466.9	368.0	322.9	301.7	290.4	286.6
70°	9073.6	4845.4	694.7	579.5	557.0	448.1	356.7	312.9	289.1	276.6	274.1
72.5°	7241.1	3801.4	608.3	527.0	474.4	376.8	316.7	281.6	259.1	245.3	241.6
75°	4173.2	2060.3	504.4	458.1	381.8	292.9	267.9	245.3	227.8	215.3	211.5
77.5°	1284.3	796.1	365.5	361.7	280.4	226.6	214.0	205.3	192.8	179.0	176.5
80°	540.7	405.6	247.8	244.1	186.5	157.7	154.0	152.7	147.7	136.4	132.7
82.5°	296.7	229.1	172.7	150.2	112.7	91.4	95.1	96.4	92.6	81.4	73.9
85°	145.2	125.2	83.9	67.6	51.3	32.5	31.3	37.6	35.0	25.0	27.5
87.5°	28.8	35.0	22.5	10.0	5.0	0.0	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)