

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: P458047

Luminaire Tested: **GALN-SA9B-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29653 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

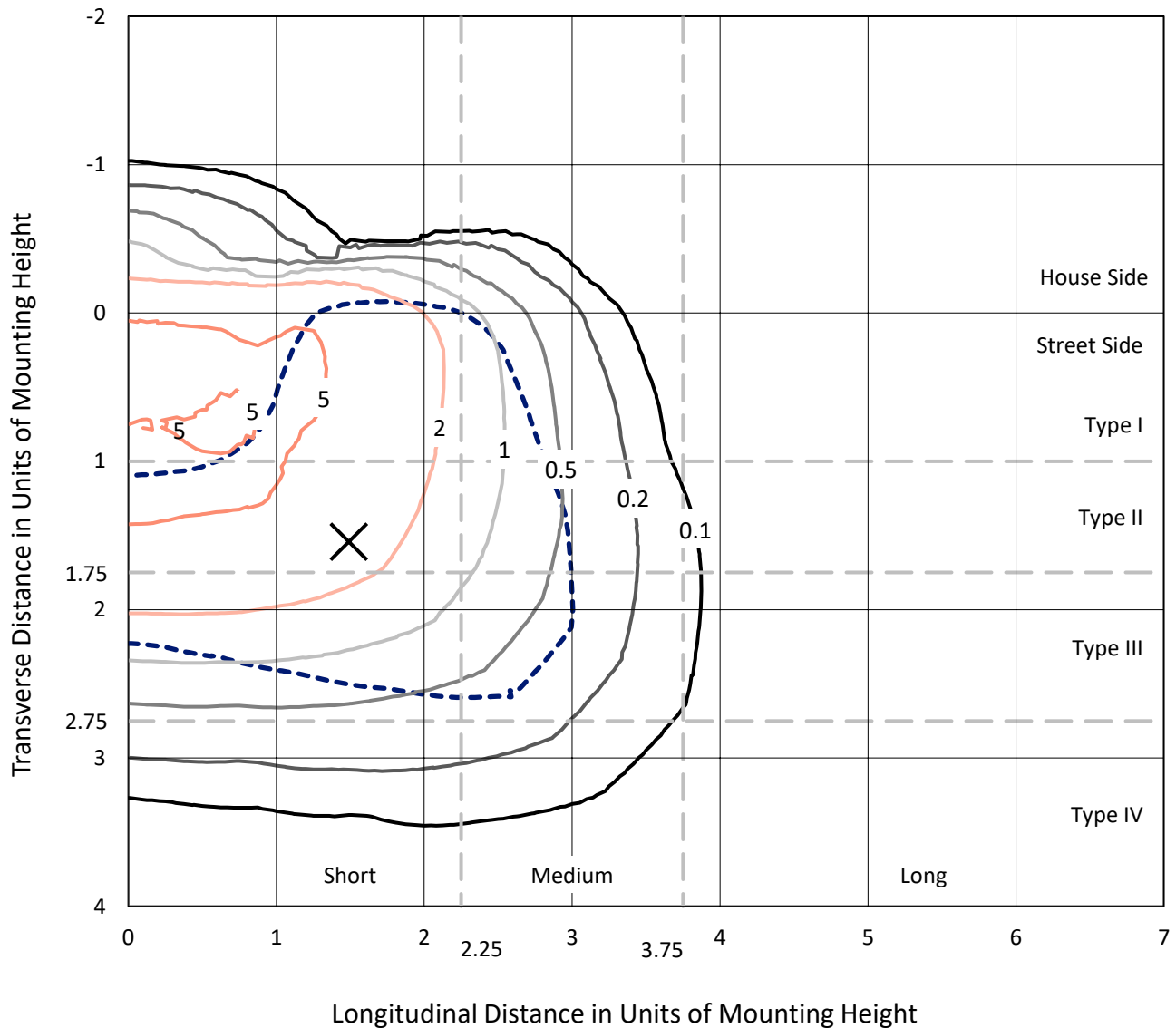
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

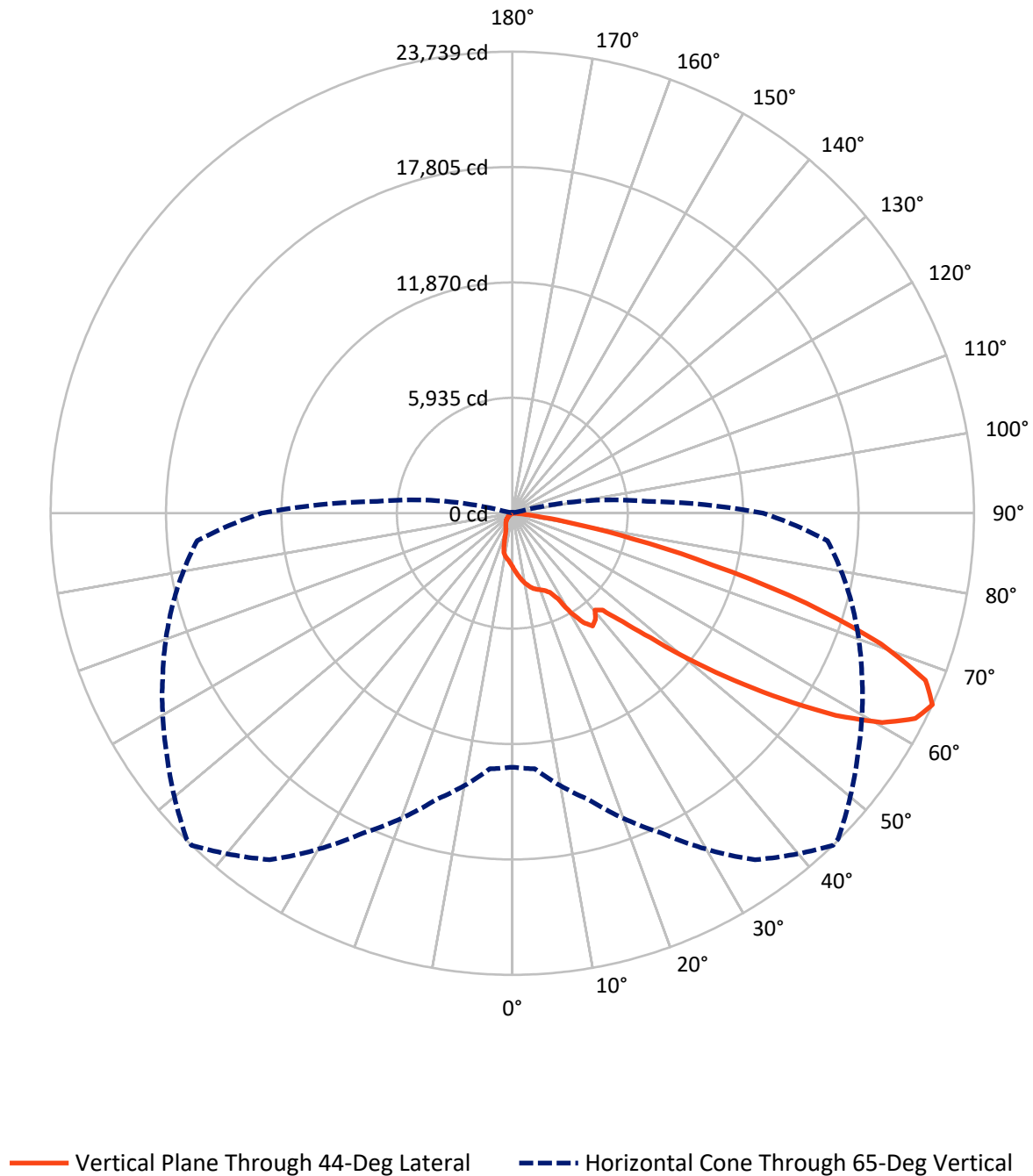
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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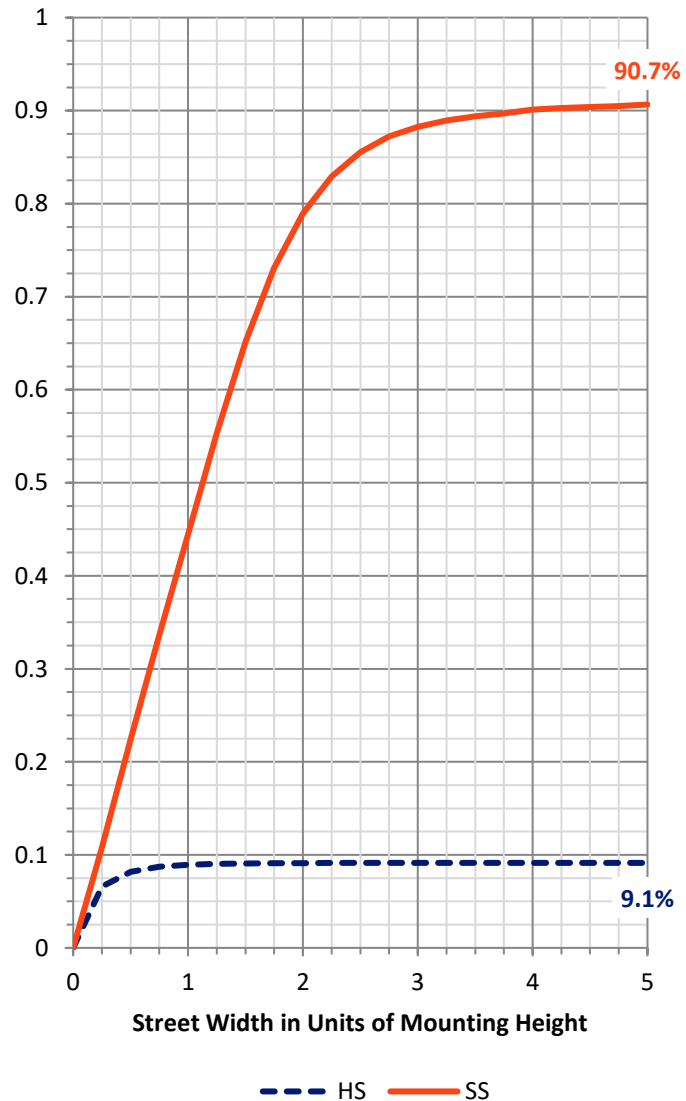
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2732.1	0.0	2732.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	26920.9	0.0	26920.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	29653.0	0.0	29653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	0.9
10°-20°	826.1	2.8
20°-30°	1400.8	4.7
30°-40°	2329.1	7.9
40°-50°	4066.7	13.7
50°-60°	7944.8	26.8
60°-70°	9217.8	31.1
70°-80°	3356.7	11.3
80°-90°	236.5	0.8
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°	29653.0	100.0
0°-180°	29653.0	100.0

Coefficient of Utilization



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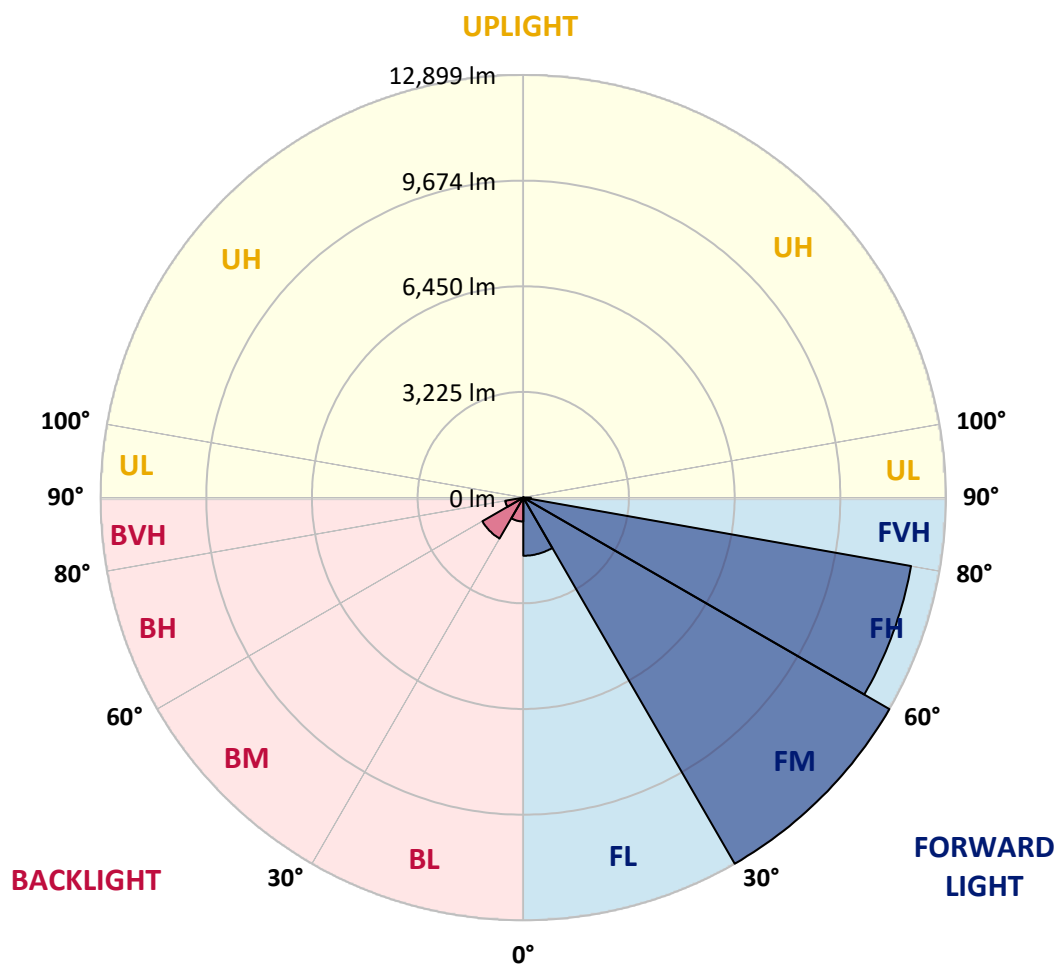
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1773.5	6.0			
FM	(30°-60°)	12899.1	43.5			
FH	(60°-80°)	12015.0	40.5			G5
FVH	(80°-90°)	233.3	0.8			G3/500
BL	(0°-30°)	727.9	2.5	B2/1000		
BM	(30°-60°)	1441.5	4.9	B2/2500		
BH	(60°-80°)	559.5	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8
2.5°	3106.5	3092.9	3086.1	3049.8	3022.6	2988.7	2988.7	2945.6	2895.8	2841.4	2791.5
5°	3453.2	3430.5	3401.0	3369.3	3305.9	3215.2	3215.2	3124.6	3020.4	2927.5	2825.5
7.5°	3786.2	3765.8	3716.0	3654.8	3550.6	3455.4	3448.6	3317.2	3192.6	3052.1	2907.1
10°	4078.5	4062.7	4019.6	3901.8	3793.0	3668.4	3666.2	3518.9	3373.9	3201.7	3022.6
12.5°	4282.5	4284.7	4228.1	4114.8	3974.3	3856.5	3847.4	3702.4	3550.6	3364.8	3145.0
15°	4427.5	4427.5	4368.6	4241.7	4114.8	4010.6	4001.5	3874.6	3718.3	3516.6	3278.7
17.5°	4468.3	4481.9	4418.4	4305.1	4203.2	4112.5	4110.3	4003.8	3879.1	3684.3	3414.6
20°	4452.4	4466.0	4416.1	4327.8	4257.5	4205.4	4198.6	4155.6	4040.0	3856.5	3559.7
22.5°	4418.4	4432.0	4395.8	4343.6	4309.7	4325.5	4314.2	4350.4	4289.3	4067.2	3731.9
25°	4425.2	4438.8	4411.6	4382.2	4411.6	4509.0	4538.5	4694.8	4640.5	4334.6	3917.7
27.5°	4638.2	4665.4	4626.9	4640.5	4744.7	4971.3	5027.9	5297.6	5057.4	4674.5	4207.7
30°	5111.8	5093.6	5021.1	5086.8	5449.4	5929.7	5913.9	5870.8	5494.7	5066.4	4552.1
32.5°	5542.3	5526.4	5521.9	5805.1	6462.2	6695.6	6684.3	6267.4	5886.7	5515.1	4892.0
35°	5716.7	5655.6	5642.0	6328.5	7427.5	7119.3	7049.1	6430.5	6362.5	6004.5	5238.7
37.5°	6242.4	6199.4	5988.7	6414.6	7042.3	6940.3	6885.9	6711.5	6870.1	6437.3	5630.6
40°	7325.5	7205.4	7015.1	6598.2	6496.2	6539.3	6593.6	7071.7	7470.5	7028.7	6154.1
42.5°	8671.4	8644.2	8290.8	7513.6	6750.0	6808.9	6879.1	7824.0	8333.8	7919.2	7008.3
45°	10287.0	10325.5	9815.7	8898.0	7896.5	7946.3	8048.3	8934.3	9503.0	9303.6	8351.9
47.5°	11755.2	11725.8	11553.6	10599.7	9675.2	9564.2	9729.6	10359.5	11120.8	11152.5	10019.6
50°	13232.6	13388.9	13132.9	12759.0	12072.5	11839.1	11777.9	12086.1	13246.2	13094.4	12022.6
52.5°	15355.7	15437.3	14956.9	14861.7	15018.1	14261.3	14200.1	14274.9	15312.6	14791.5	13522.6
55°	16690.3	16642.7	16463.7	17206.9	17825.5	16880.6	16803.6	16502.2	17027.9	15990.1	14966.0
57.5°	17111.7	17179.7	17596.6	18940.3	20404.0	19601.9	19461.4	18604.9	18265.0	17107.2	16293.8
60°	16923.7	17048.3	17947.8	19946.3	21976.5	21856.4	21736.3	20297.5	19153.3	18040.7	17225.0
62.5°	15584.5	15759.0	17197.8	19767.3	22509.0	23259.0	23109.4	21353.4	19744.7	18493.9	17388.2
65°	13060.4	13189.5	15256.0	18142.7	21752.2	23739.4	23685.0	21684.2	19837.6	18079.2	16271.1
67.5°	9310.4	9750.0	11664.6	15290.0	19513.5	22919.1	23012.0	21287.7	18965.2	16287.0	13475.0
70°	5852.7	6151.8	7524.9	10946.3	15643.5	20107.2	20413.1	19472.7	16459.2	12695.6	9020.4
72.5°	2791.5	3013.6	3992.4	6929.0	11041.5	15820.2	16062.6	15985.6	12727.3	7998.5	4654.1
75°	1244.0	1327.8	1905.6	3537.0	7128.4	10633.7	11261.3	11365.5	7953.1	3913.1	1810.4
77.5°	634.4	636.7	892.7	1713.0	3559.7	6344.4	6469.0	6833.8	4311.9	1724.3	629.9
80°	337.6	360.3	473.6	808.9	1846.7	3124.6	3108.8	3416.9	1912.4	845.2	210.7
82.5°	151.8	167.7	267.4	423.7	901.8	1185.0	1277.9	1398.0	820.2	539.3	92.9
85°	45.3	54.4	131.4	213.0	326.3	342.1	382.9	494.0	464.5	382.9	47.6
87.5°	6.8	6.8	54.4	58.9	47.6	61.2	63.4	70.2	149.5	140.5	24.9
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°	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8
2.5°	2764.3	2748.5	2691.8	2644.3	2603.5	2578.5	2549.1	2531.0	2521.9	2515.1	2517.4
5°	2775.7	2737.2	2639.7	2562.7	2503.8	2440.3	2397.3	2372.3	2361.0	2342.9	2342.9
7.5°	2839.1	2777.9	2642.0	2524.2	2422.2	2336.1	2254.5	2225.1	2204.7	2200.1	2195.6
10°	2929.7	2852.7	2666.9	2503.8	2358.8	2240.9	2125.4	2023.4	1944.1	1896.5	1889.7
12.5°	3043.0	2932.0	2705.4	2490.2	2304.4	2095.9	1790.0	1583.8	1445.6	1402.6	1409.4
15°	3147.3	3027.2	2743.9	2478.8	2204.7	1737.9	1391.2	1155.6	1085.3	1078.5	1080.8
17.5°	3271.9	3129.1	2789.3	2463.0	1930.5	1327.8	1033.2	969.8	983.4	1006.0	1003.8
20°	3401.0	3237.9	2843.6	2367.8	1540.8	999.2	913.1	919.9	940.3	960.7	965.3
22.5°	3539.3	3362.5	2907.1	2139.0	1176.0	870.1	865.6	874.6	895.0	917.7	922.2
25°	3729.6	3518.9	2954.7	1839.9	890.5	804.4	813.4	829.3	847.4	872.4	876.9
27.5°	3974.3	3729.6	2979.6	1450.1	770.4	745.5	747.7	770.4	793.0	815.7	815.7
30°	4291.5	3981.1	2929.7	1096.7	711.5	688.8	679.8	693.4	722.8	745.5	747.7
32.5°	4574.8	4219.0	2798.3	838.4	668.4	636.7	614.0	616.3	627.6	641.2	643.5
35°	4858.0	4450.1	2574.0	704.7	623.1	586.9	552.9	534.7	525.7	518.9	525.7
37.5°	5220.5	4737.9	2274.9	641.2	584.6	539.3	491.7	453.2	421.4	401.1	405.6
40°	5687.3	5136.7	1921.4	600.5	548.3	494.0	430.5	380.7	326.3	308.2	299.1
42.5°	6457.7	5741.7	1549.8	566.5	512.1	446.4	367.1	299.1	249.2	231.1	235.6
45°	7674.4	6505.3	1194.1	530.2	475.8	394.3	308.2	235.6	194.9	185.8	190.3
47.5°	9287.7	7493.2	919.9	489.4	430.5	337.6	242.4	185.8	160.9	158.6	156.3
50°	10805.9	8413.1	768.1	444.1	376.1	281.0	199.4	156.3	140.5	138.2	138.2
52.5°	12179.0	9072.5	625.4	392.0	317.2	231.1	167.7	138.2	124.6	117.8	117.8
55°	13400.3	9503.0	507.6	328.5	249.2	183.5	145.0	124.6	108.8	99.7	97.4
57.5°	14322.5	9555.1	380.7	262.8	185.8	142.7	124.6	108.8	90.6	79.3	74.8
60°	14716.7	9104.2	281.0	199.4	138.2	113.3	99.7	88.4	68.0	56.6	54.4
62.5°	14320.2	8227.3	208.5	151.8	106.5	83.8	70.2	65.7	47.6	34.0	31.7
65°	12899.5	6960.7	165.4	115.6	79.3	61.2	45.3	43.1	29.5	15.9	13.6
67.5°	10334.6	5451.6	131.4	86.1	56.6	40.8	29.5	27.2	15.9	4.5	4.5
70°	6720.5	3484.9	106.5	63.4	36.3	27.2	18.1	13.6	9.1	2.3	0.0
72.5°	3324.0	1629.1	86.1	49.8	24.9	13.6	6.8	4.5	6.8	0.0	0.0
75°	1289.3	580.1	63.4	34.0	13.6	6.8	4.5	0.0	2.3	0.0	0.0
77.5°	428.2	192.6	38.5	18.1	9.1	4.5	0.0	0.0	0.0	0.0	0.0
80°	158.6	74.8	20.4	11.3	4.5	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	63.4	29.5	13.6	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.7	18.1	9.1	6.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.7	13.6	9.1	6.8	4.5	2.3	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)