

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: P456185

Luminaire Tested: **GALN-SA7B-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23122 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 286
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

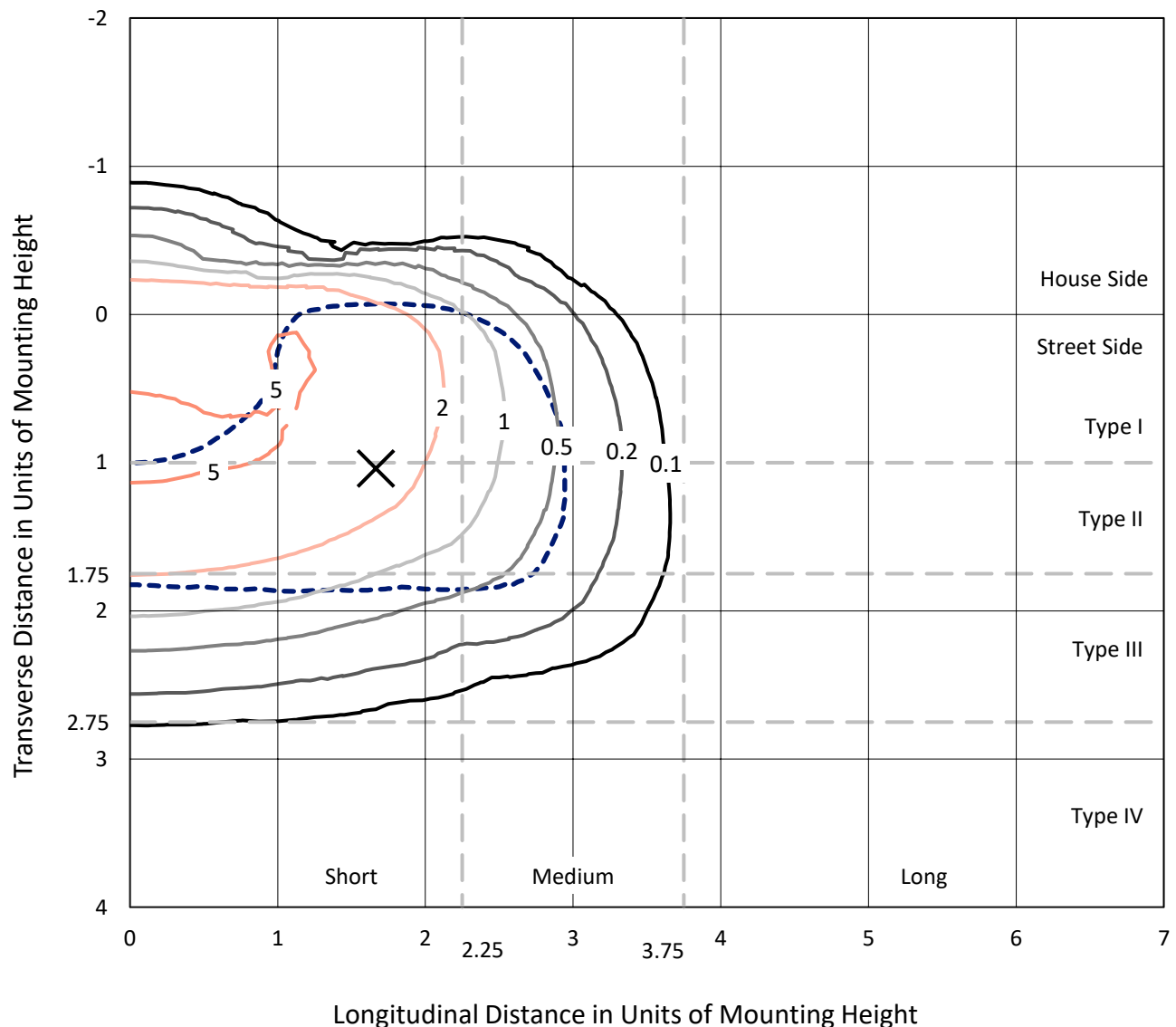


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

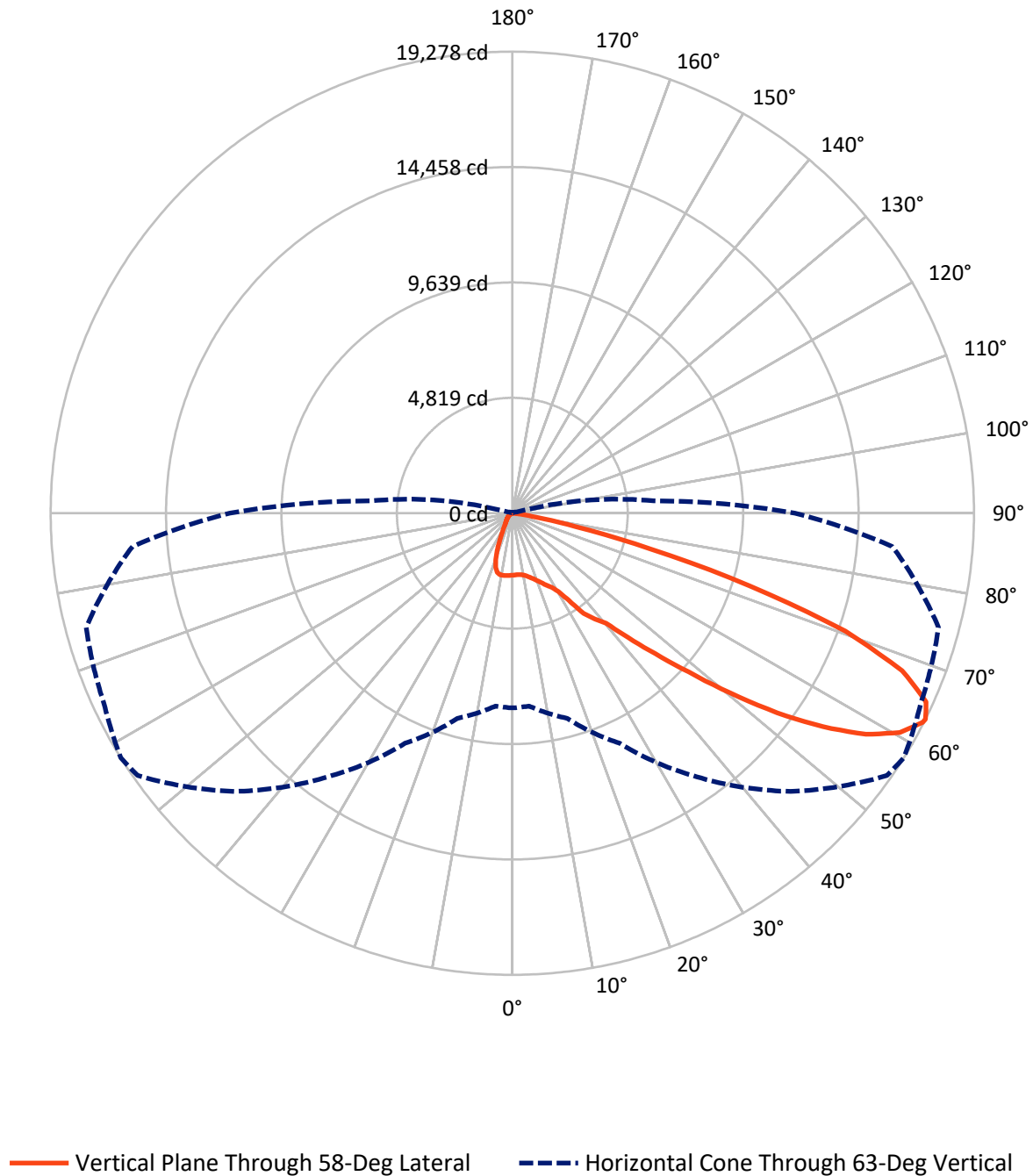


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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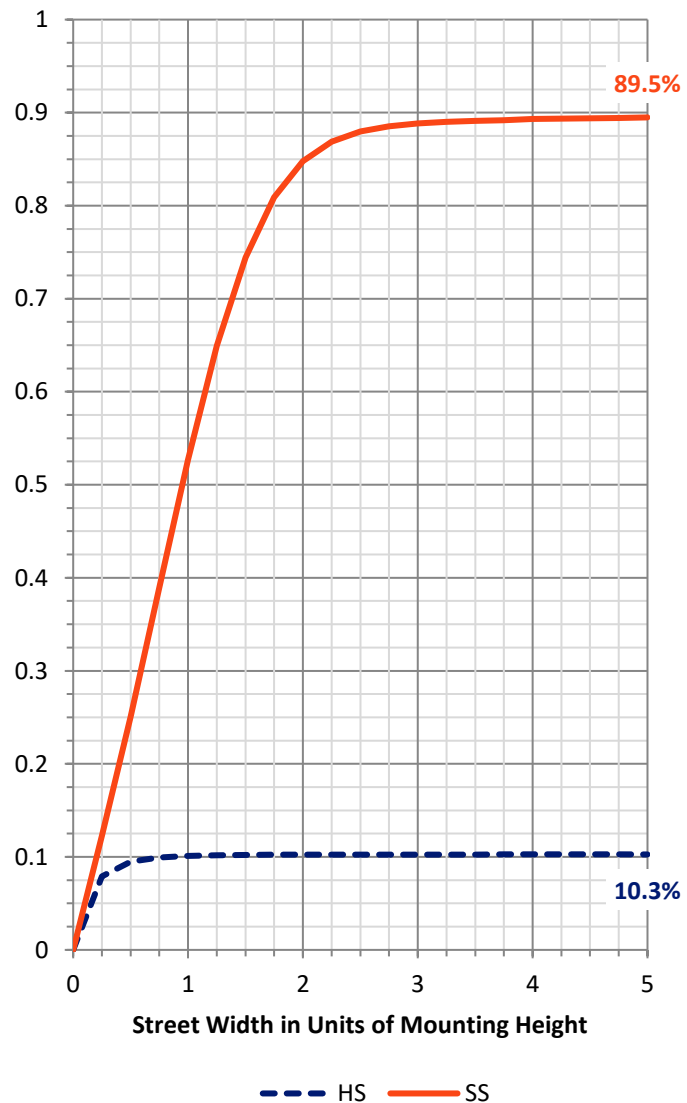
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2394.1	0.0	2394.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20727.9	0.0	20727.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	23122.0	0.0	23122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	1.0
10°-20°	660.0	2.9
20°-30°	1145.5	5.0
30°-40°	2105.0	9.1
40°-50°	3962.5	17.1
50°-60°	6777.6	29.3
60°-70°	6489.6	28.1
70°-80°	1654.9	7.2
80°-90°	84.6	0.4
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°	23122.0	100.0
0°-180°	23122.0	100.0

Coefficient of Utilization



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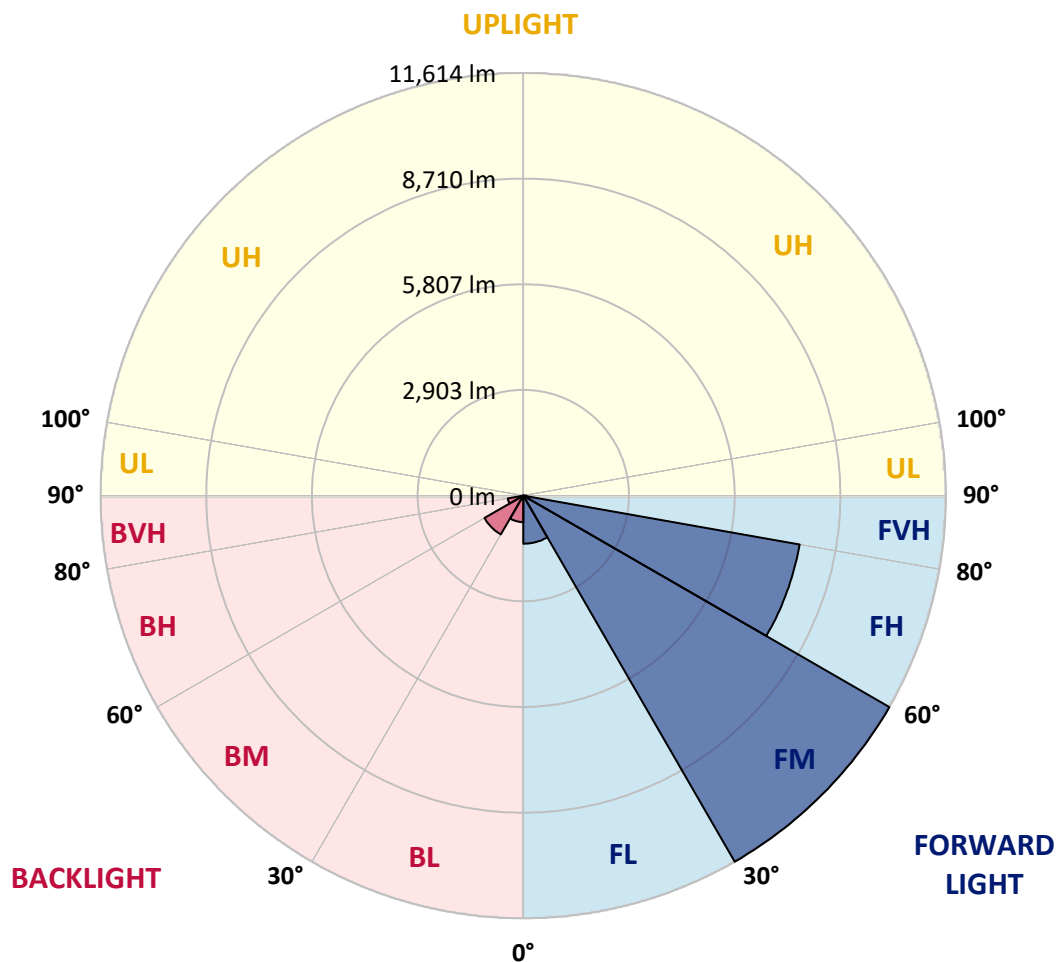
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1321.8	5.7			
FM	(30°-60°)	11613.7	50.2			
FH	(60°-80°)	7711.1	33.3			G4/12000
FVH	(80°-90°)	81.3	0.4			G1/100
BL	(0°-30°)	726.1	3.1	B2/1000		
BM	(30°-60°)	1231.4	5.3	B2/2500		
BH	(60°-80°)	433.4	1.9	B1/500		G1/500
BVH	(80°-90°)	3.3	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6
2.5°	2524.2	2532.9	2541.6	2545.1	2557.3	2569.4	2578.2	2576.4	2590.3	2597.3	2597.3
5°	2423.2	2423.2	2445.9	2466.7	2501.6	2536.4	2569.4	2576.4	2602.5	2626.9	2635.6
7.5°	2337.9	2343.1	2360.6	2398.8	2445.9	2506.8	2572.9	2588.6	2633.9	2687.8	2710.5
10°	2297.9	2301.4	2324.0	2364.0	2423.2	2506.8	2599.0	2628.6	2698.3	2783.6	2814.9
12.5°	2289.2	2294.4	2317.0	2362.3	2430.2	2531.2	2656.5	2687.8	2788.8	2898.5	2945.5
15°	2304.8	2308.3	2331.0	2379.7	2454.6	2574.7	2733.1	2776.6	2896.7	3023.8	3084.7
17.5°	2360.6	2357.1	2372.7	2412.8	2496.3	2628.6	2825.3	2877.6	3018.6	3192.7	3232.7
20°	2597.3	2574.7	2560.7	2525.9	2559.0	2705.2	2936.8	3013.4	3187.4	3365.0	3392.9
22.5°	3107.4	3056.9	2957.7	2821.9	2717.4	2809.7	3070.8	3159.6	3384.2	3558.2	3558.2
25°	3756.7	3692.3	3593.0	3297.1	3041.2	2982.0	3222.3	3333.7	3598.3	3774.1	3716.6
27.5°	4569.6	4519.2	4325.9	3981.3	3589.6	3283.2	3398.1	3500.8	3788.0	4000.4	3880.3
30°	5231.2	5206.8	5048.4	4740.2	4308.5	3861.1	3725.4	3793.2	4040.4	4285.9	4162.3
32.5°	5790.0	5790.0	5628.1	5340.8	4937.0	4540.1	4280.7	4329.4	4566.2	4849.9	4620.1
35°	6404.5	6383.6	6253.0	5979.7	5527.1	5177.2	5071.0	5137.2	5351.3	5561.9	4996.1
37.5°	7050.3	7043.4	6907.6	6643.0	6273.9	5833.5	5584.5	5602.0	5711.6	5840.4	5436.6
40°	7751.9	7762.3	7584.7	7421.1	7072.9	6622.1	6145.1	6035.4	6138.1	6502.0	6249.5
42.5°	8580.5	8556.1	8479.5	8256.7	7976.4	7706.6	7133.9	7093.8	7184.4	7574.3	7301.0
45°	9543.2	9578.0	9445.7	9322.1	9134.1	8909.5	8430.8	8361.2	8460.4	9066.2	8678.0
47.5°	10507.6	10474.5	10559.8	10537.2	10638.1	10471.0	10048.0	9905.3	10143.8	10718.2	10147.2
50°	11242.2	11278.8	11456.3	11715.7	12149.2	12243.2	11837.6	11788.8	11895.0	12264.1	11461.6
52.5°	11719.2	11841.0	12119.6	12786.3	13567.9	14175.5	13867.4	13841.2	13797.7	13897.0	12718.4
55°	12030.8	12154.4	12518.2	13500.0	14845.7	15832.7	15848.4	15737.0	15449.8	15378.4	13893.5
57.5°	11839.3	11863.7	12382.4	13695.0	15554.2	17014.8	17526.6	17415.1	16884.2	16614.4	14931.0
60°	10641.6	10692.1	11414.5	12956.9	15246.1	17401.2	18638.9	18588.5	18007.0	17702.4	15738.7
62.5°	8519.6	8665.8	9409.1	11129.1	13813.4	16750.2	19089.8	19232.6	18780.0	18360.4	15992.9
63°	8129.6	8082.6	8867.7	10596.4	13433.9	16428.1	19096.8	19277.8	18814.8	18423.1	15923.3
65°	6018.0	6159.0	6669.1	8355.9	11179.5	14929.3	18666.8	18987.1	18685.9	18146.3	15152.1
67.5°	3378.9	3372.0	3936.0	5467.9	7825.0	11710.5	16879.0	17556.2	17493.5	16283.6	12560.0
70°	1653.8	1679.9	1911.4	2834.1	4538.3	8079.1	14025.8	14756.9	14779.6	12789.8	8684.9
72.5°	748.6	760.7	926.1	1380.5	2332.7	4301.6	9665.0	10363.1	10234.3	8150.5	4796.0
75°	395.2	421.3	510.1	694.6	1124.6	1773.9	5257.3	5932.7	5662.9	3723.6	1765.2
77.5°	292.5	301.2	346.4	442.2	602.3	691.1	2268.3	2698.3	2527.7	1347.4	584.9
80°	214.1	221.1	257.6	313.3	379.5	351.6	854.7	980.1	879.1	457.8	179.3
82.5°	130.6	132.3	188.0	233.3	238.5	196.7	282.0	302.9	316.8	257.6	97.5
85°	47.0	59.2	127.1	168.9	141.0	99.2	118.4	130.6	142.7	163.6	57.4
87.5°	5.2	7.0	60.9	81.8	40.0	36.6	43.5	48.7	52.2	60.9	27.9
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°	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6	2588.6
2.5°	2604.3	2611.2	2606.0	2597.3	2595.6	2590.3	2579.9	2579.9	2579.9	2583.4	2579.9
5°	2642.6	2647.8	2635.6	2618.2	2599.0	2574.7	2548.6	2532.9	2531.2	2527.7	2519.0
7.5°	2715.7	2722.6	2694.8	2653.0	2600.8	2541.6	2485.9	2433.7	2409.3	2390.1	2390.1
10°	2821.9	2828.8	2773.1	2698.3	2593.8	2473.7	2341.4	2221.3	2127.3	2083.8	2073.3
12.5°	2948.9	2952.4	2860.2	2729.6	2557.3	2325.7	2043.7	1780.9	1598.1	1514.5	1505.8
15°	3088.2	3063.8	2942.0	2741.8	2452.8	2021.1	1533.7	1211.6	1021.9	966.2	987.0
17.5°	3229.2	3184.0	3004.7	2722.6	2217.8	1533.7	1030.6	826.9	767.7	752.0	752.0
20°	3361.5	3298.9	3049.9	2639.1	1810.5	1056.7	764.2	715.5	705.0	694.6	696.3
22.5°	3493.8	3398.1	3090.0	2452.8	1349.1	755.5	684.1	668.5	654.5	640.6	638.9
25°	3622.6	3490.3	3105.6	2108.1	919.2	649.3	625.0	604.1	576.2	560.5	557.1
27.5°	3756.7	3601.8	3095.2	1672.9	670.2	581.4	557.1	527.5	494.4	466.5	466.5
30°	4014.3	3814.1	3058.6	1202.9	564.0	511.8	480.5	433.5	396.9	369.1	367.3
32.5°	4366.0	4090.9	2933.3	846.0	501.4	450.9	403.9	351.6	313.3	292.5	292.5
35°	4679.3	4369.5	2698.3	623.2	450.9	391.7	334.2	283.8	254.2	240.2	235.0
37.5°	5156.3	4776.8	2374.5	506.6	402.1	339.5	280.3	233.3	208.9	198.5	198.5
40°	5871.8	5274.7	1977.6	443.9	355.1	289.0	233.3	196.7	177.6	165.4	165.4
42.5°	6759.6	5884.0	1575.4	398.6	311.6	248.9	195.0	167.1	149.7	141.0	139.3
45°	7877.2	6526.3	1213.4	356.9	276.8	212.4	165.4	141.0	123.6	118.4	120.1
47.5°	9043.6	7092.1	940.0	320.3	240.2	179.3	141.0	121.9	109.7	102.7	102.7
50°	10039.3	7482.0	713.7	278.5	212.4	151.5	123.6	109.7	99.2	95.7	94.0
52.5°	10871.4	7595.2	546.6	242.0	186.3	130.6	109.7	99.2	90.5	85.3	85.3
55°	11579.9	7496.0	428.2	203.7	156.7	113.2	97.5	88.8	78.3	73.1	71.4
57.5°	11994.2	7177.4	327.3	168.9	127.1	94.0	85.3	74.9	62.7	54.0	54.0
60°	12203.1	6714.3	250.7	139.3	97.5	74.9	69.6	55.7	43.5	36.6	34.8
62.5°	11952.5	6099.8	189.7	109.7	73.1	55.7	47.0	40.0	27.9	20.9	20.9
63°	11797.5	5922.3	182.8	104.4	67.9	52.2	43.5	36.6	24.4	19.1	17.4
65°	10754.8	5147.6	149.7	83.6	54.0	36.6	29.6	26.1	17.4	8.7	7.0
67.5°	8540.5	3937.7	118.4	62.7	38.3	26.1	17.4	15.7	5.2	0.0	0.0
70°	5774.3	2543.3	92.3	45.3	26.1	15.7	8.7	7.0	1.7	0.0	0.0
72.5°	3011.6	1303.9	71.4	33.1	15.7	10.4	5.2	1.7	0.0	0.0	0.0
75°	1065.4	443.9	52.2	20.9	10.4	5.2	1.7	0.0	0.0	0.0	0.0
77.5°	322.1	165.4	33.1	15.7	7.0	3.5	0.0	0.0	0.0	0.0	0.0
80°	113.2	60.9	19.1	10.4	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	55.7	29.6	12.2	8.7	5.2	1.7	0.0	0.0	0.0	0.0	0.0
85°	31.3	19.1	10.4	8.7	5.2	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	22.6	13.9	10.4	8.7	7.0	3.5	1.7	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)