

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: STREETWORKS

Report Number: P322392

Luminaire Tested: **GAN-SA8A-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 21629 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 257
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

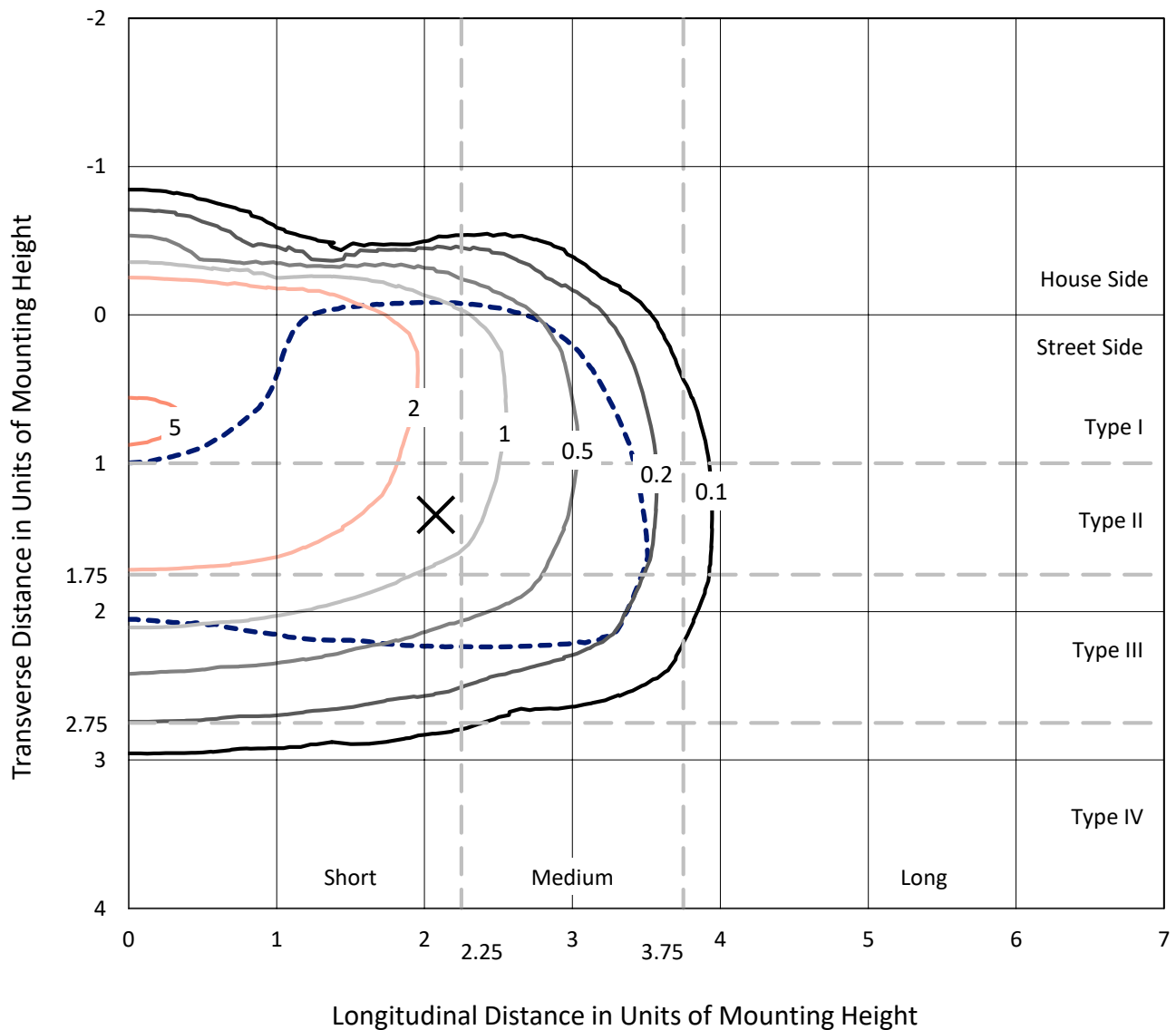


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Iso-Footcandle Lines of Horizontal Illumination

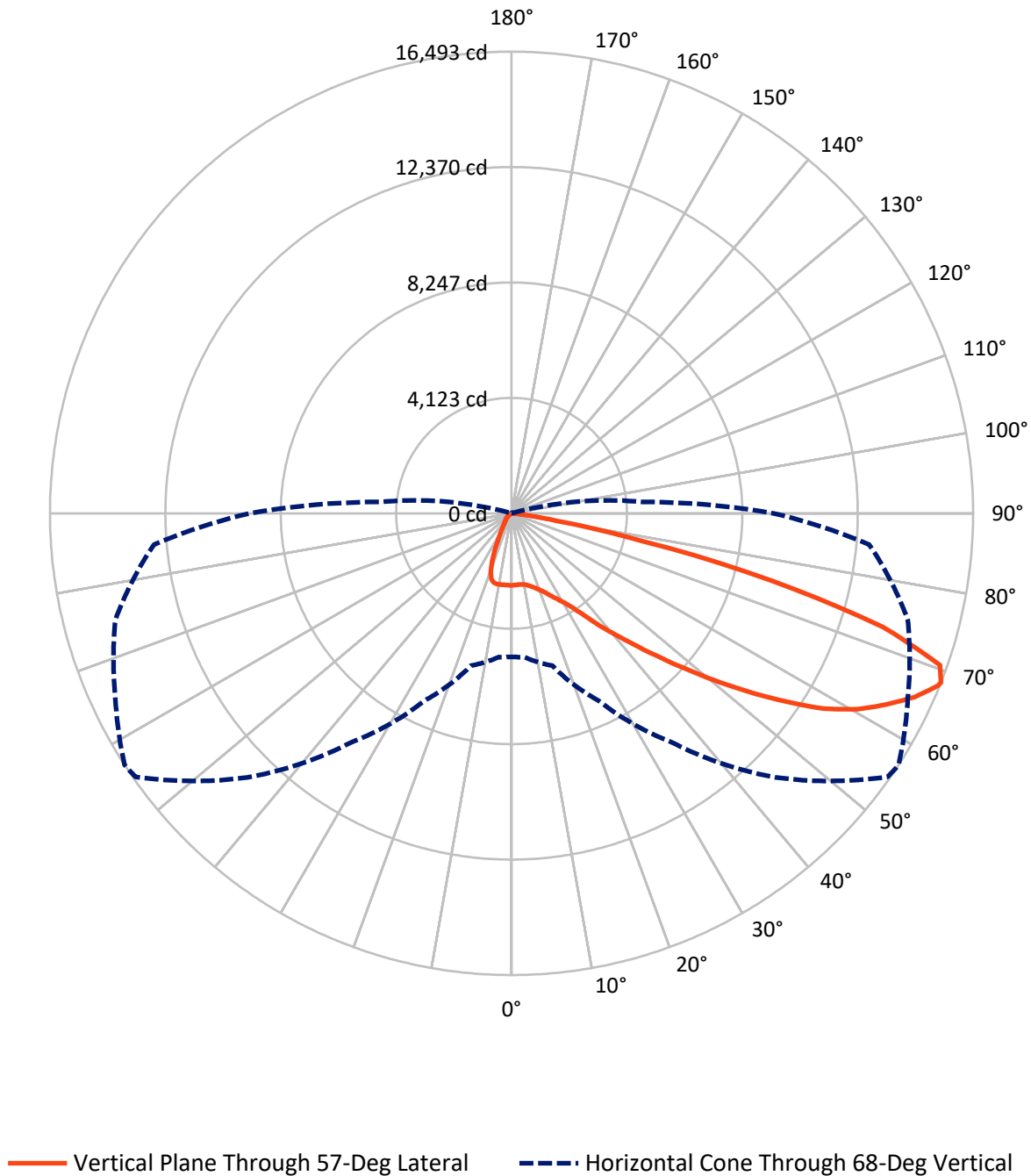
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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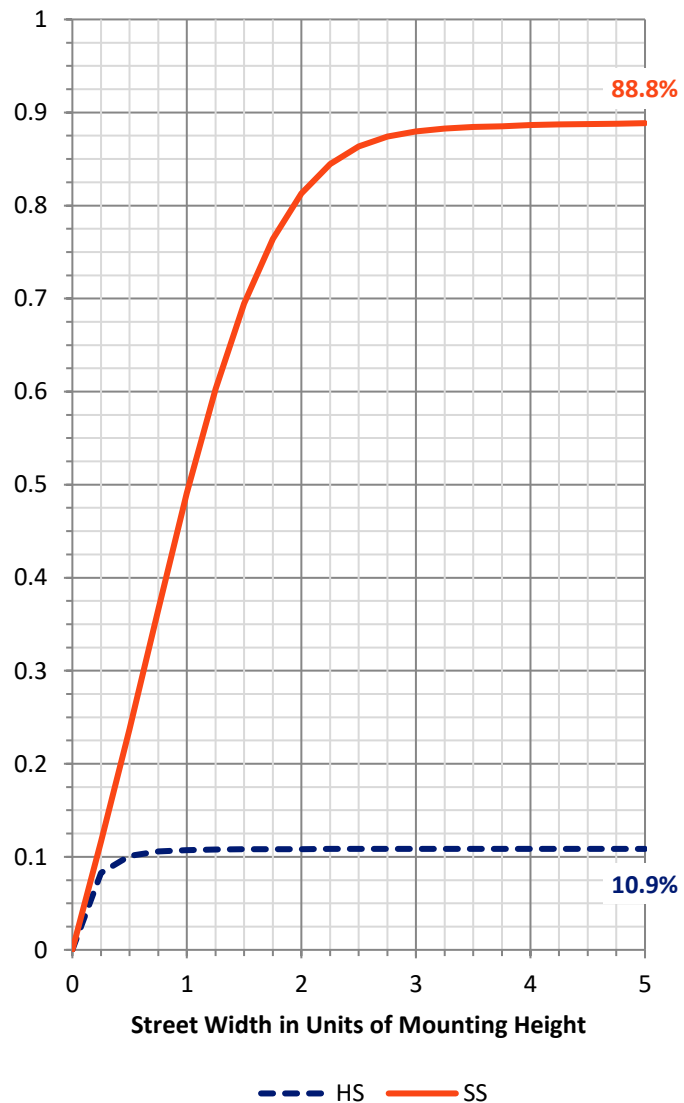
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2371.7	0.0	2371.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	19257.3	0.0	19257.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	21629.0	0.0	21629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	1.1
10°-20°	666.5	3.1
20°-30°	1149.8	5.3
30°-40°	1984.5	9.2
40°-50°	3394.5	15.7
50°-60°	5430.9	25.1
60°-70°	6274.8	29.0
70°-80°	2397.7	11.1
80°-90°	89.9	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°	21629.0	100.0
0°-180°	21629.0	100.0

Coefficient of Utilization



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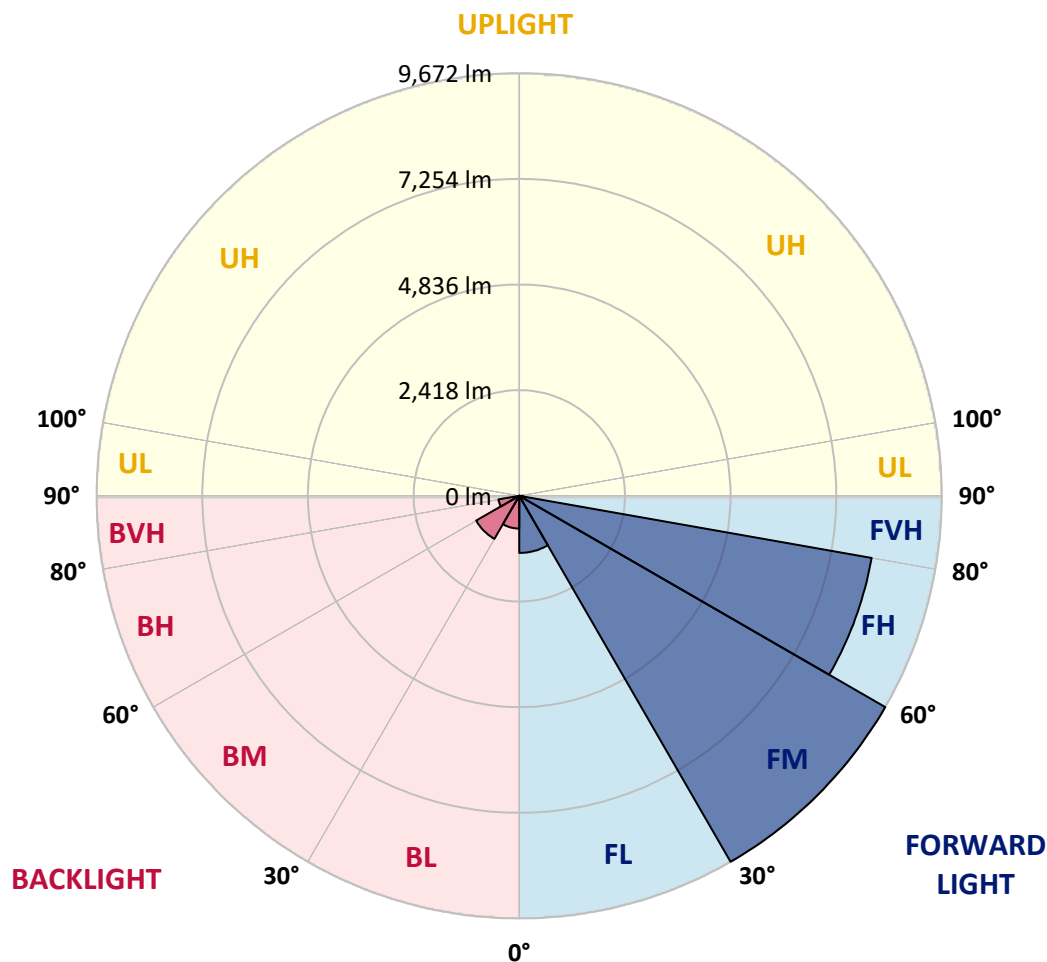
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1307.3	6.0			
FM	(30°-60°)	9672.3	44.7			
FH	(60°-80°)	8189.4	37.9			G4/12000
FVH	(80°-90°)	88.2	0.4			G1/100
BL	(0°-30°)	749.5	3.5	B2/1000		
BM	(30°-60°)	1137.5	5.3	B2/2500		
BH	(60°-80°)	483.0	2.2	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	57°	65°	75°	85°
0°	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1
2.5°	2509.8	2521.0	2529.2	2534.3	2540.4	2553.7	2557.8	2564.0	2567.0	2567.0	2574.2
5°	2410.6	2422.8	2440.2	2454.5	2483.2	2520.0	2546.6	2556.8	2575.2	2591.6	2600.8
7.5°	2318.5	2332.8	2353.3	2387.0	2436.1	2495.4	2550.7	2565.0	2600.8	2635.5	2652.9
10°	2259.2	2270.4	2297.0	2345.1	2409.5	2492.4	2570.1	2587.5	2648.8	2707.1	2739.9
12.5°	2238.7	2249.0	2276.6	2330.8	2410.6	2507.7	2615.1	2640.7	2730.7	2815.5	2861.6
15°	2268.4	2270.4	2300.1	2351.2	2430.0	2545.6	2689.8	2720.4	2834.0	2944.4	3001.7
17.5°	2382.9	2373.7	2389.1	2411.6	2474.0	2595.7	2768.5	2814.5	2965.9	3095.8	3150.0
20°	2669.3	2669.3	2634.5	2573.2	2574.2	2673.4	2874.9	2927.0	3112.1	3262.5	3311.6
22.5°	3159.2	3150.0	3080.4	2930.1	2792.0	2807.4	3004.8	3072.3	3288.0	3448.6	3465.0
25°	3748.3	3737.0	3629.6	3417.9	3178.6	3024.2	3180.7	3258.4	3497.7	3639.9	3606.1
27.5°	4372.1	4362.9	4256.6	3993.7	3653.2	3369.9	3390.3	3464.0	3711.5	3851.6	3744.2
30°	4976.6	4979.6	4874.3	4604.3	4218.7	3810.7	3656.2	3699.2	3919.1	4061.2	3907.8
32.5°	5551.3	5555.4	5464.4	5162.7	4802.7	4323.0	4024.4	4013.2	4160.4	4300.5	4124.6
35°	6063.7	6073.9	6011.5	5777.3	5395.9	4893.7	4502.0	4475.4	4503.0	4661.6	4457.0
37.5°	6557.7	6563.8	6516.8	6319.4	6000.3	5520.6	5105.4	5067.6	5008.3	5130.0	4895.8
40°	7098.7	7083.4	7029.2	6850.2	6576.1	6213.0	5753.8	5688.4	5585.1	5693.5	5472.6
42.5°	7601.9	7584.5	7593.7	7391.2	7160.1	6924.8	6509.6	6397.1	6336.8	6461.5	6180.3
45°	8230.9	8221.6	8252.3	8076.4	7889.3	7718.5	7375.9	7253.1	7226.5	7372.8	7036.3
47.5°	8851.6	8874.1	8969.3	8894.6	8818.9	8668.6	8293.2	8238.0	8254.4	8431.3	7939.4
50°	9369.1	9395.7	9656.5	9742.4	9851.9	9763.9	9387.5	9353.8	9418.2	9577.8	8911.0
52.5°	9743.5	9797.7	10121.9	10517.7	10916.5	10975.8	10600.5	10569.8	10656.7	10681.3	9661.6
55°	10003.2	10051.3	10418.4	11142.5	11954.6	12210.3	11977.1	11858.4	11842.1	11599.7	10451.2
57.5°	10049.2	10044.1	10571.9	11546.5	12768.7	13428.3	13281.0	13164.5	12829.0	12448.5	11356.3
60°	9789.5	9819.1	10431.7	11686.6	13280.0	14349.8	14361.0	14209.7	13687.1	13273.9	12233.8
62.5°	8989.7	9110.4	9729.1	11319.5	13273.9	14721.0	15152.6	15037.1	14412.2	13949.9	13123.5
65°	7692.9	7735.9	8326.0	10061.5	12377.0	14565.6	15865.5	15822.5	15065.7	14606.5	13580.7
67.5°	5617.8	5524.7	6144.5	7923.0	10478.8	13659.4	16376.8	16431.0	15569.9	14741.5	13093.9
68°	5126.9	5154.5	5637.2	7394.3	9981.7	13339.3	16410.6	16493.4	15620.0	14653.5	12828.0
70°	3055.9	3109.1	3539.6	5091.1	7593.7	11528.1	16046.5	16235.7	15321.4	13746.4	11095.5
72.5°	780.3	843.7	1250.8	2278.6	4337.4	8122.4	13545.9	13866.0	13302.5	11151.7	7490.4
75°	321.1	337.5	446.9	750.7	1615.9	3659.3	8928.3	9613.6	9221.9	6676.3	3385.2
77.5°	221.9	233.2	287.4	416.2	699.5	1240.6	4377.2	4872.2	4389.5	2278.6	738.4
80°	159.5	168.7	205.6	277.2	401.9	442.8	1426.7	1649.6	1310.1	500.1	183.1
82.5°	95.1	102.3	153.4	197.4	244.4	211.7	354.9	403.0	379.4	248.5	81.8
85°	47.0	55.2	103.3	141.1	131.9	89.0	108.4	120.7	149.3	151.4	44.0
87.5°	3.1	6.1	60.3	84.9	36.8	20.5	31.7	38.9	53.2	74.7	18.4
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°	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1	2570.1
2.5°	2577.3	2578.3	2571.1	2568.0	2570.1	2557.8	2552.7	2554.8	2554.8	2557.8	2552.7
5°	2602.8	2602.8	2590.5	2574.2	2565.0	2541.5	2526.1	2522.0	2519.0	2516.9	2512.8
7.5°	2658.0	2651.9	2630.4	2594.6	2564.0	2512.8	2474.0	2453.5	2443.3	2439.2	2436.1
10°	2747.0	2735.8	2700.0	2633.5	2562.9	2471.9	2387.0	2326.7	2276.6	2256.1	2243.8
12.5°	2866.7	2850.3	2790.0	2679.5	2555.8	2388.1	2204.0	2027.0	1862.4	1794.9	1761.1
15°	3004.8	2981.2	2886.1	2718.4	2513.8	2198.8	1799.0	1489.1	1261.0	1175.1	1138.3
17.5°	3144.9	3114.2	2970.0	2742.9	2388.1	1807.1	1262.0	953.2	800.8	759.9	745.6
20°	3286.0	3241.0	3042.6	2724.5	2103.7	1302.9	832.5	696.5	652.5	640.2	636.1
22.5°	3420.0	3350.4	3108.0	2652.9	1666.0	874.4	658.6	615.7	601.4	594.2	592.2
25°	3536.6	3439.4	3165.3	2432.0	1179.2	660.7	593.2	578.9	560.5	547.2	548.2
27.5°	3646.0	3528.4	3200.1	2067.9	786.5	564.5	549.2	529.8	496.0	476.6	476.6
30°	3777.9	3647.0	3225.7	1591.4	578.9	499.1	486.8	457.2	411.1	385.6	385.6
32.5°	3976.3	3827.0	3209.3	1116.8	479.7	438.7	410.1	369.2	319.1	294.5	293.5
35°	4280.1	4105.2	3092.7	732.3	423.4	381.5	335.5	285.3	241.4	220.9	219.9
37.5°	4689.2	4477.5	2830.9	523.6	379.4	328.3	273.1	217.8	185.1	171.8	170.8
40°	5220.0	4910.1	2456.6	424.4	338.5	277.2	210.7	168.7	146.2	136.0	137.0
42.5°	5857.1	5373.4	2007.6	366.1	298.6	228.1	164.7	133.0	118.6	111.5	109.4
45°	6564.8	5830.5	1537.1	326.2	258.7	184.1	128.9	105.3	94.1	90.0	90.0
47.5°	7343.1	6275.4	1125.0	291.5	215.8	142.2	103.3	85.9	76.7	73.6	72.6
50°	8049.8	6584.3	811.0	254.7	176.9	112.5	83.9	71.6	65.5	61.4	61.4
52.5°	8638.9	6681.4	597.3	214.8	143.2	90.0	69.5	61.4	55.2	52.2	52.2
55°	9157.4	6641.5	443.9	176.9	115.6	73.6	59.3	52.2	47.0	44.0	44.0
57.5°	9654.5	6512.7	331.4	144.2	93.1	59.3	50.1	44.0	38.9	36.8	36.8
60°	10060.5	6297.9	246.5	116.6	74.7	48.1	41.9	35.8	31.7	28.6	28.6
62.5°	10389.8	6060.6	181.0	96.1	59.3	37.8	32.7	29.7	23.5	20.5	20.5
65°	10391.9	5666.9	136.0	79.8	46.0	29.7	24.5	23.5	15.3	12.3	11.2
67.5°	9640.2	4885.5	104.3	68.5	35.8	22.5	18.4	19.4	8.2	5.1	4.1
68°	9367.1	4687.1	98.2	67.5	33.7	21.5	17.4	19.4	7.2	4.1	3.1
70°	7897.4	3728.8	78.7	65.5	29.7	16.4	14.3	19.4	6.1	3.1	2.0
72.5°	5051.2	2164.1	58.3	52.2	22.5	12.3	9.2	17.4	6.1	2.0	1.0
75°	2149.8	670.9	39.9	36.8	13.3	9.2	6.1	11.2	4.1	1.0	0.0
77.5°	453.1	151.4	23.5	22.5	9.2	6.1	4.1	3.1	1.0	0.0	0.0
80°	116.6	44.0	12.3	11.2	5.1	3.1	2.0	0.0	0.0	0.0	0.0
82.5°	36.8	17.4	7.2	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	10.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	3.1	1.0	0.0	0.0	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)