

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: P322160

Luminaire Tested: **GAN-SA6B-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322160
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-SA6B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 20829 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249
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



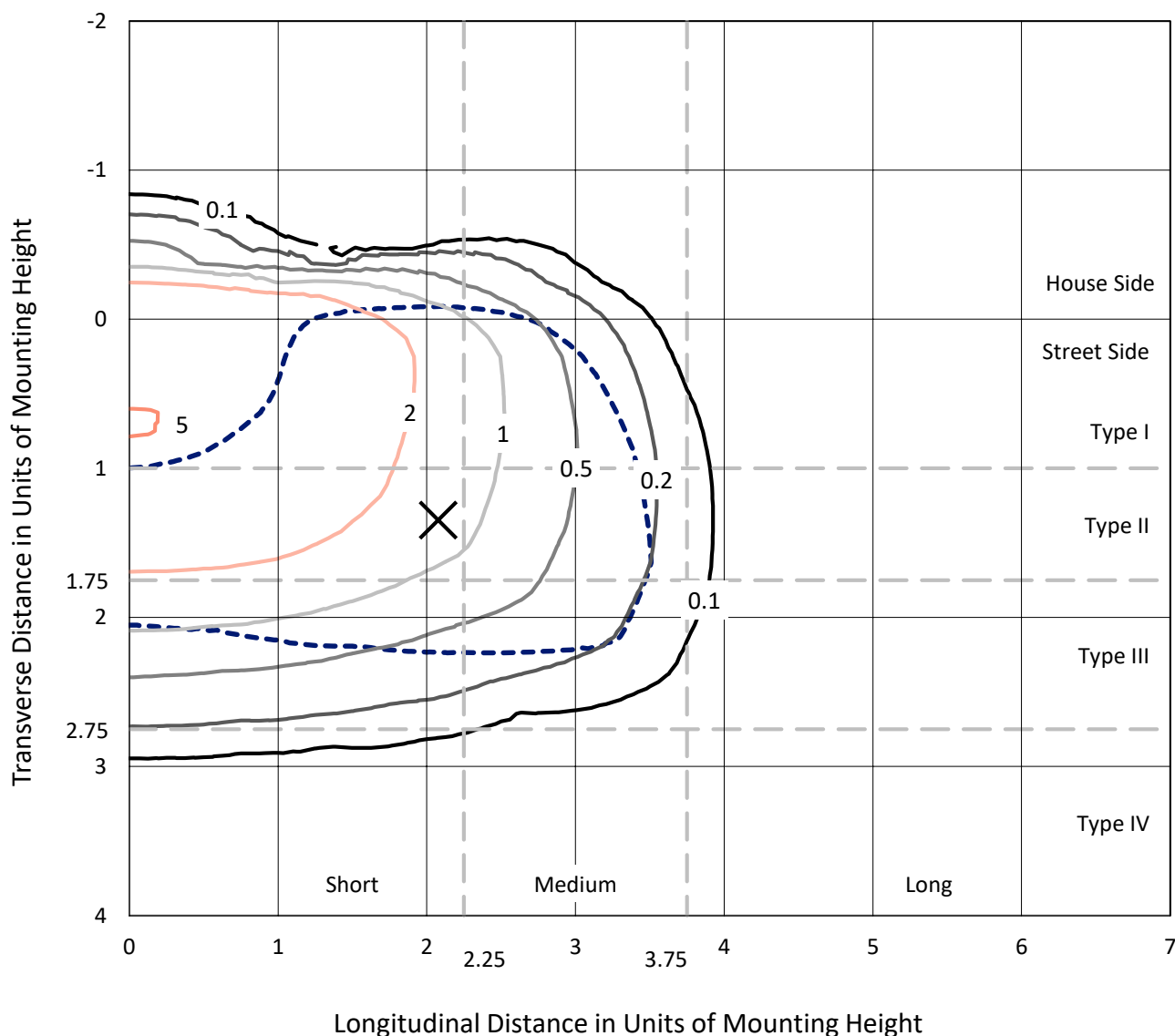
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

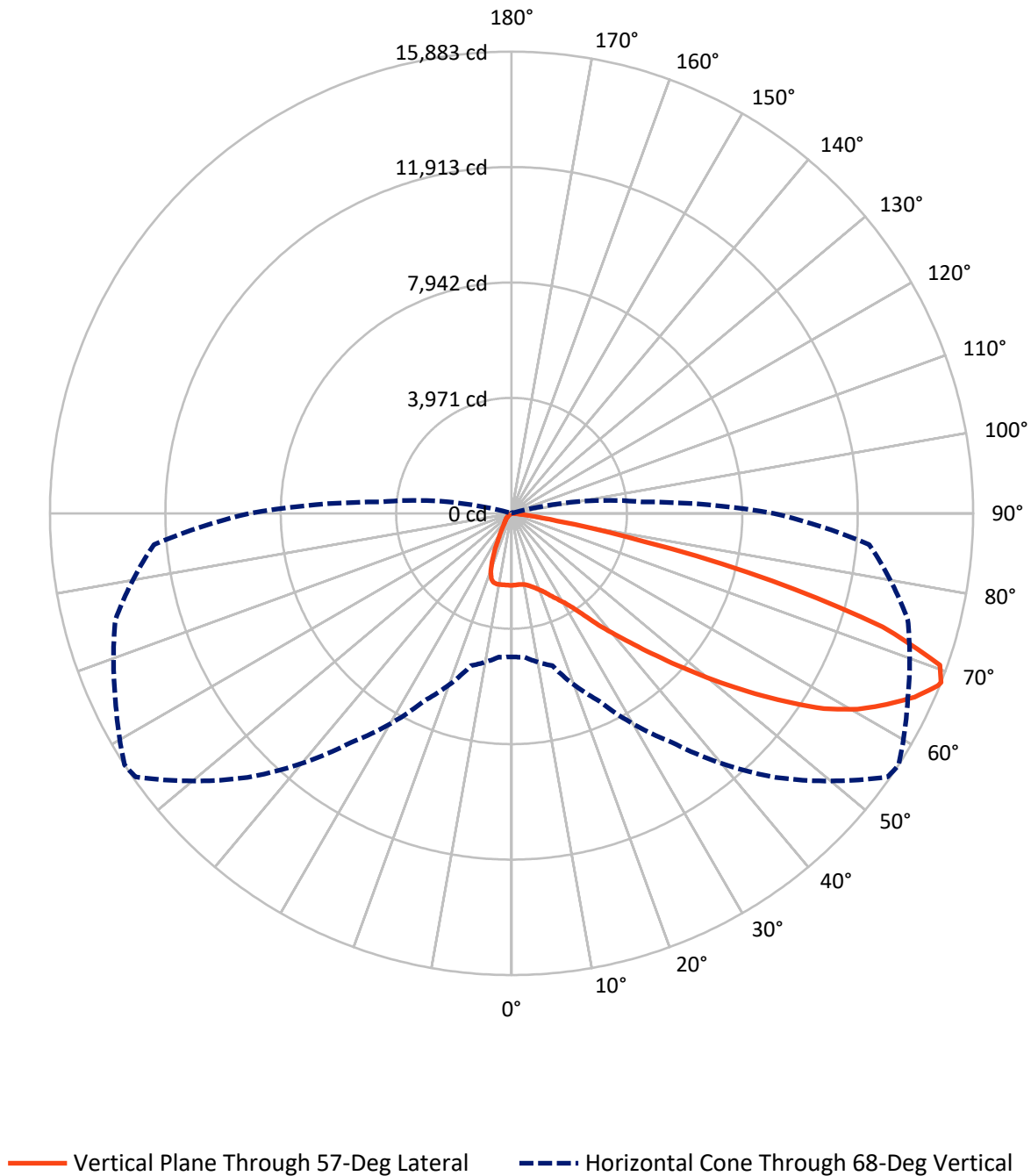
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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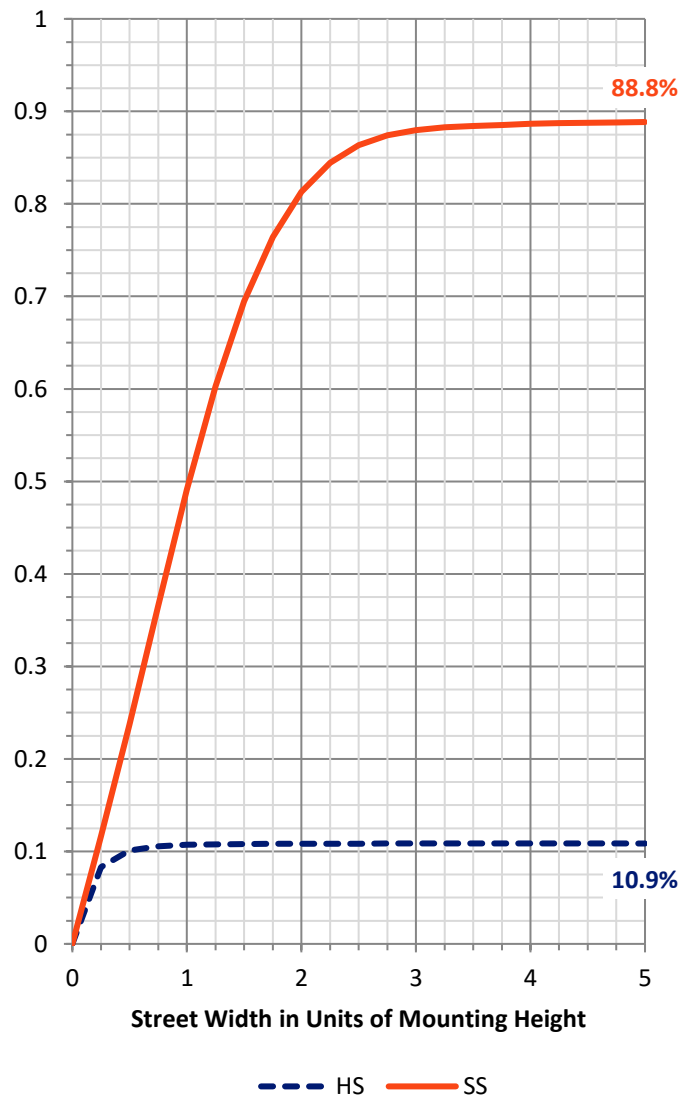
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2284.0	0.0	2284.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	18545.0	0.0	18545.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	20829.0	0.0	20829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	1.1
10°-20°	641.9	3.1
20°-30°	1107.3	5.3
30°-40°	1911.1	9.2
40°-50°	3268.9	15.7
50°-60°	5230.0	25.1
60°-70°	6042.7	29.0
70°-80°	2309.0	11.1
80°-90°	86.6	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°	20829.0	100.0
0°-180°	20829.0	100.0

Coefficient of Utilization



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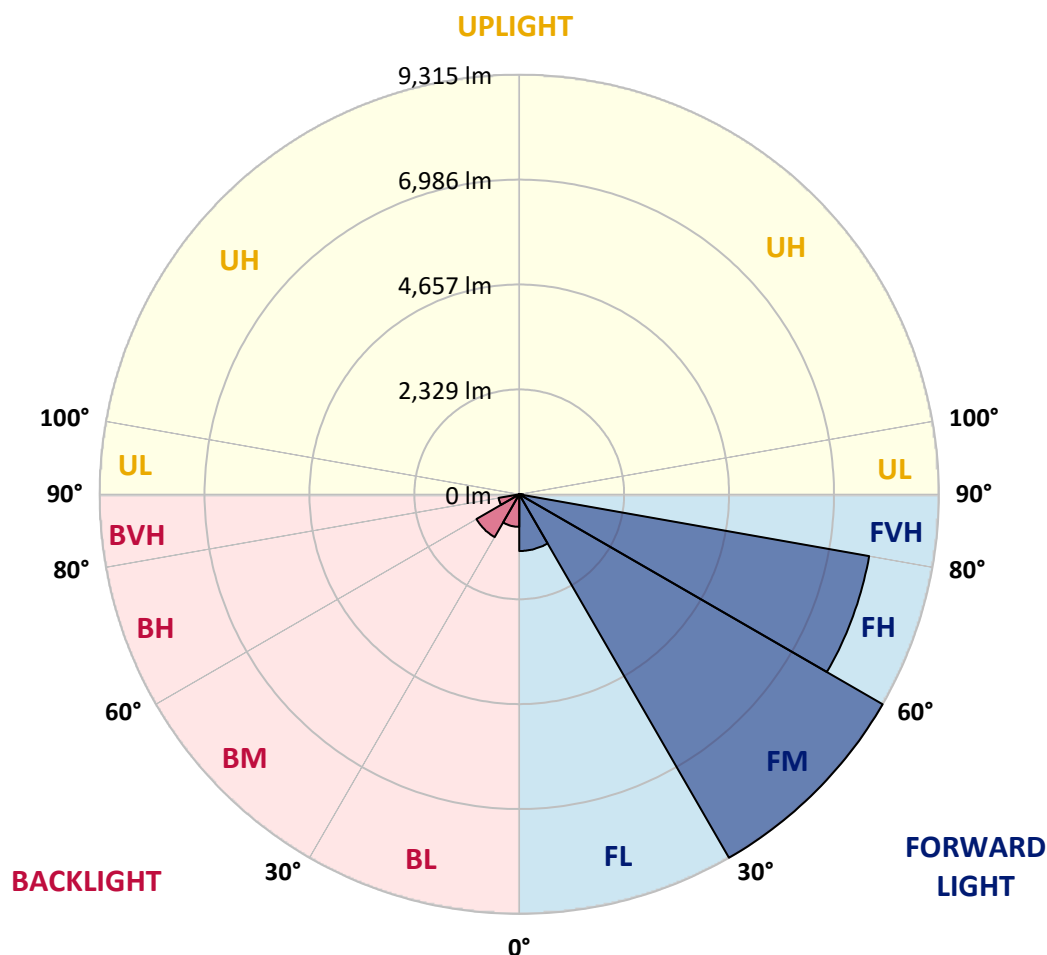
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1258.9	6.0			
FM	(30°-60°)	9314.6	44.7			
FH	(60°-80°)	7886.5	37.9			G4/12000
FVH	(80°-90°)	85.0	0.4			G1/100
BL	(0°-30°)	721.8	3.5	B2/1000		
BM	(30°-60°)	1095.5	5.3	B2/2500		
BH	(60°-80°)	465.2	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°	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0
2.5°	2416.9	2427.8	2435.6	2440.6	2446.5	2459.3	2463.2	2469.1	2472.1	2472.1	2479.0
5°	2321.4	2333.2	2350.0	2363.7	2391.3	2426.8	2452.4	2462.2	2480.0	2495.7	2504.6
7.5°	2232.8	2246.5	2266.2	2298.7	2346.0	2403.1	2456.3	2470.1	2504.6	2538.1	2554.8
10°	2175.6	2186.5	2212.1	2258.4	2320.4	2400.2	2475.0	2491.8	2550.9	2607.0	2638.5
12.5°	2155.9	2165.8	2192.4	2244.6	2321.4	2415.0	2518.4	2543.0	2629.7	2711.4	2755.7
15°	2184.5	2186.5	2215.0	2264.3	2340.1	2451.4	2590.3	2619.8	2729.1	2835.5	2890.7
17.5°	2294.8	2285.9	2300.7	2322.4	2382.5	2499.7	2666.1	2710.4	2856.2	2981.3	3033.5
20°	2570.6	2570.6	2537.1	2478.0	2479.0	2574.5	2768.5	2818.8	2997.0	3141.8	3189.1
22.5°	3042.3	3033.5	2966.5	2821.7	2688.8	2703.5	2893.6	2958.6	3166.4	3321.1	3336.8
25°	3609.6	3598.8	3495.4	3291.5	3061.0	2912.3	3063.0	3137.9	3368.3	3505.2	3472.7
27.5°	4210.4	4201.6	4099.1	3846.0	3518.0	3245.2	3264.9	3335.8	3574.2	3709.1	3605.7
30°	4792.5	4795.4	4694.0	4434.0	4062.7	3669.7	3521.0	3562.4	3774.1	3911.0	3763.3
32.5°	5346.0	5349.9	5262.3	4971.7	4625.1	4163.1	3875.6	3864.7	4006.5	4141.5	3972.1
35°	5839.4	5849.3	5789.2	5563.7	5196.3	4712.7	4335.5	4309.9	4336.5	4489.1	4292.2
37.5°	6315.1	6321.0	6275.7	6085.6	5778.4	5316.4	4916.6	4880.1	4823.0	4940.2	4714.7
40°	6836.1	6821.4	6769.2	6596.8	6332.9	5983.2	5541.0	5478.0	5378.5	5482.9	5270.2
42.5°	7320.7	7304.0	7312.8	7117.8	6895.2	6668.7	6268.8	6160.5	6102.4	6222.5	5951.7
45°	7926.4	7917.5	7947.1	7777.7	7597.5	7433.0	7103.0	6984.9	6959.2	7100.1	6776.1
47.5°	8524.2	8545.9	8637.5	8565.6	8492.7	8347.9	7986.5	7933.3	7949.1	8119.5	7645.7
50°	9022.6	9048.2	9299.4	9382.1	9487.5	9402.8	9040.3	9007.8	9069.9	9223.5	8581.4
52.5°	9383.1	9435.3	9747.5	10128.6	10512.7	10569.9	10208.4	10178.9	10262.6	10286.2	9304.3
55°	9633.2	9679.5	10033.1	10730.4	11512.4	11758.6	11534.1	11419.8	11404.1	11170.6	10064.6
57.5°	9677.6	9672.6	10180.8	11119.4	12296.4	12931.6	12789.8	12677.5	12354.5	11988.1	10936.2
60°	9427.4	9456.0	10045.9	11254.4	12788.8	13819.0	13829.9	13684.1	13180.8	12782.9	11781.3
62.5°	8657.2	8773.4	9369.3	10900.8	12782.9	14176.5	14592.2	14480.9	13879.1	13433.9	12638.1
65°	7408.4	7449.7	8018.0	9689.4	11919.2	14026.8	15278.6	15237.3	14508.4	14066.2	13078.4
67.5°	5410.0	5320.4	5917.2	7630.0	10091.2	13154.2	15771.1	15823.3	14994.0	14196.2	12609.6
68°	4937.3	4963.9	5428.7	7120.8	9612.5	12846.0	15803.6	15883.4	15042.3	14111.5	12353.5
70°	2942.9	2994.1	3408.7	4902.8	7312.8	11101.7	15453.0	15635.2	14754.7	13237.9	10685.1
72.5°	751.5	812.5	1204.5	2194.3	4176.9	7822.0	13044.9	13353.2	12810.5	10739.3	7213.4
75°	309.3	325.0	430.4	722.9	1556.1	3523.9	8598.1	9258.0	8880.8	6429.4	3260.0
77.5°	213.7	224.6	276.8	400.9	673.7	1194.7	4215.3	4692.0	4227.2	2194.3	711.1
80°	153.6	162.5	198.0	266.9	387.1	426.5	1373.9	1588.6	1261.6	481.6	176.3
82.5°	91.6	98.5	147.7	190.1	235.4	203.9	341.8	388.0	365.4	239.3	78.8
85°	45.3	53.2	99.5	135.9	127.1	85.7	104.4	116.2	143.8	145.8	42.4
87.5°	3.0	5.9	58.1	81.7	35.5	19.7	30.5	37.4	51.2	71.9	17.7
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°	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0
2.5°	2481.9	2482.9	2476.0	2473.1	2475.0	2463.2	2458.3	2460.3	2460.3	2463.2	2458.3
5°	2506.6	2506.6	2494.7	2479.0	2470.1	2447.5	2432.7	2428.7	2425.8	2423.8	2419.9
7.5°	2559.7	2553.8	2533.1	2498.7	2469.1	2419.9	2382.5	2362.8	2352.9	2349.0	2346.0
10°	2645.4	2634.6	2600.1	2536.1	2468.1	2380.5	2298.7	2240.6	2192.4	2172.7	2160.9
12.5°	2760.7	2744.9	2686.8	2580.4	2461.2	2299.7	2122.4	1952.1	1793.5	1728.5	1696.0
15°	2893.6	2871.0	2779.4	2617.8	2420.9	2117.5	1732.4	1434.0	1214.4	1131.6	1096.2
17.5°	3028.5	2999.0	2860.1	2641.5	2299.7	1740.3	1215.4	917.9	771.2	731.8	718.0
20°	3164.5	3121.1	2930.1	2623.8	2025.9	1254.8	801.7	670.7	628.4	616.5	612.6
22.5°	3293.5	3226.5	2993.1	2554.8	1604.4	842.1	634.3	592.9	579.1	572.2	570.3
25°	3405.8	3312.2	3048.2	2342.1	1135.6	636.2	571.2	557.4	539.7	526.9	527.9
27.5°	3511.1	3397.9	3081.7	1991.5	757.4	543.7	528.9	510.2	477.7	459.0	459.0
30°	3638.2	3512.1	3106.4	1532.5	557.4	480.6	468.8	440.2	395.9	371.3	371.3
32.5°	3829.3	3685.5	3090.6	1075.5	461.9	422.5	394.9	355.5	307.3	283.6	282.7
35°	4121.8	3953.4	2978.3	705.2	407.7	367.4	323.0	274.8	232.4	212.7	211.8
37.5°	4515.7	4311.9	2726.2	504.3	365.4	316.2	263.0	209.8	178.3	165.5	164.5
40°	5026.9	4728.5	2365.7	408.7	326.0	266.9	202.9	162.5	140.8	131.0	132.0
42.5°	5640.5	5174.6	1933.3	352.6	287.6	219.6	158.6	128.0	114.2	107.4	105.4
45°	6322.0	5614.9	1480.3	314.2	249.2	177.3	124.1	101.4	90.6	86.7	86.7
47.5°	7071.5	6043.3	1083.4	280.7	207.8	136.9	99.5	82.7	73.9	70.9	69.9
50°	7752.1	6340.7	781.0	245.2	170.4	108.3	80.8	68.9	63.0	59.1	59.1
52.5°	8319.4	6434.3	575.2	206.8	137.9	86.7	67.0	59.1	53.2	50.2	50.2
55°	8818.7	6395.9	427.4	170.4	111.3	70.9	57.1	50.2	45.3	42.4	42.4
57.5°	9297.4	6271.8	319.1	138.9	89.6	57.1	48.3	42.4	37.4	35.5	35.5
60°	9688.4	6065.0	237.4	112.3	71.9	46.3	40.4	34.5	30.5	27.6	27.6
62.5°	10005.5	5836.5	174.3	92.6	57.1	36.4	31.5	28.6	22.7	19.7	19.7
65°	10007.5	5457.3	131.0	76.8	44.3	28.6	23.6	22.7	14.8	11.8	10.8
67.5°	9283.6	4704.8	100.5	66.0	34.5	21.7	17.7	18.7	7.9	4.9	3.9
68°	9020.6	4513.8	94.5	65.0	32.5	20.7	16.7	18.7	6.9	3.9	3.0
70°	7605.3	3590.9	75.8	63.0	28.6	15.8	13.8	18.7	5.9	3.0	2.0
72.5°	4864.4	2084.0	56.1	50.2	21.7	11.8	8.9	16.7	5.9	2.0	1.0
75°	2070.2	646.1	38.4	35.5	12.8	8.9	5.9	10.8	3.9	1.0	0.0
77.5°	436.3	145.8	22.7	21.7	8.9	5.9	3.9	3.0	1.0	0.0	0.0
80°	112.3	42.4	11.8	10.8	4.9	3.0	2.0	0.0	0.0	0.0	0.0
82.5°	35.5	16.7	6.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	9.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	3.0	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)