

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: P319606

Luminaire Tested: **GAN-SA2C-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 12104 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

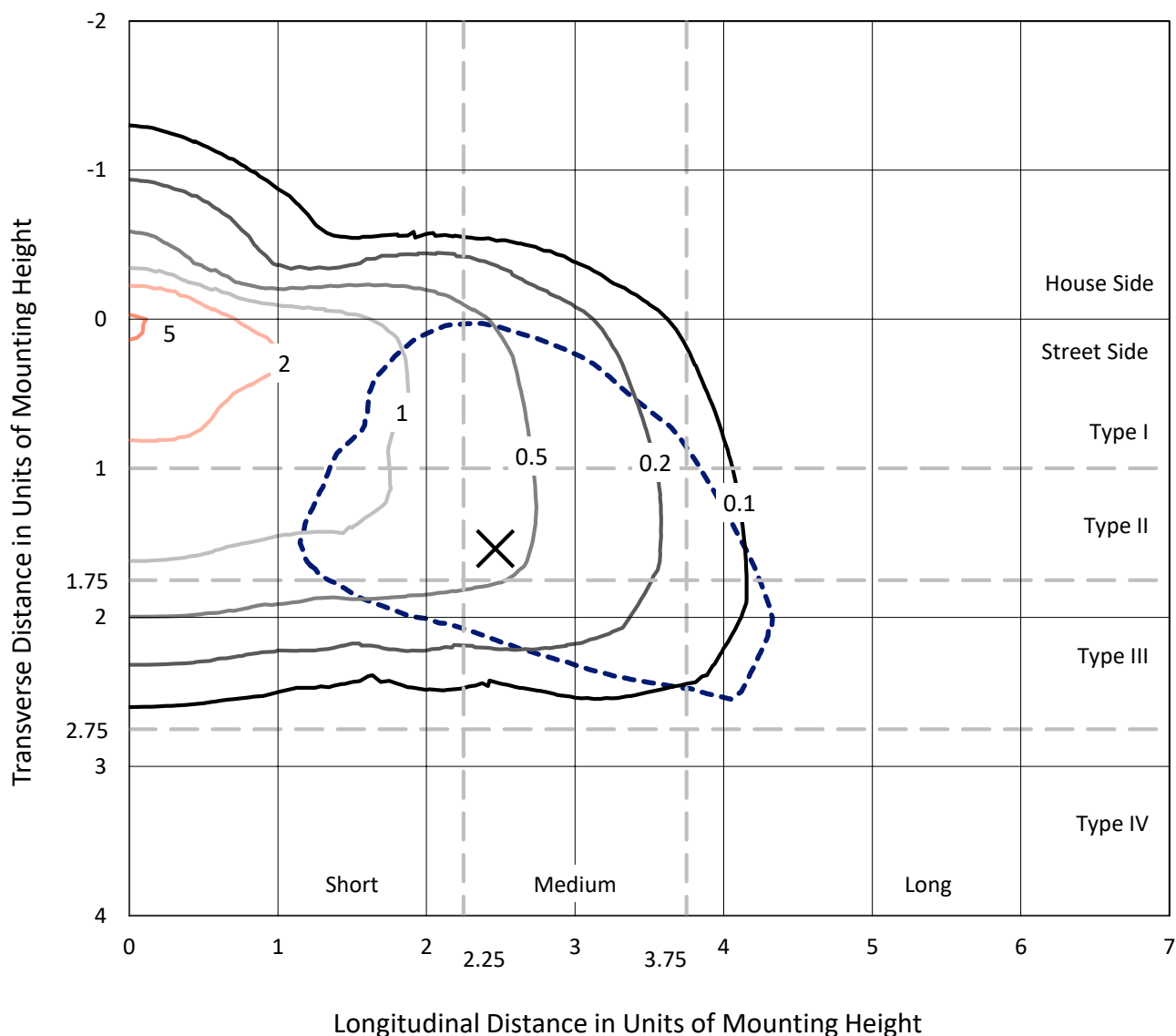
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

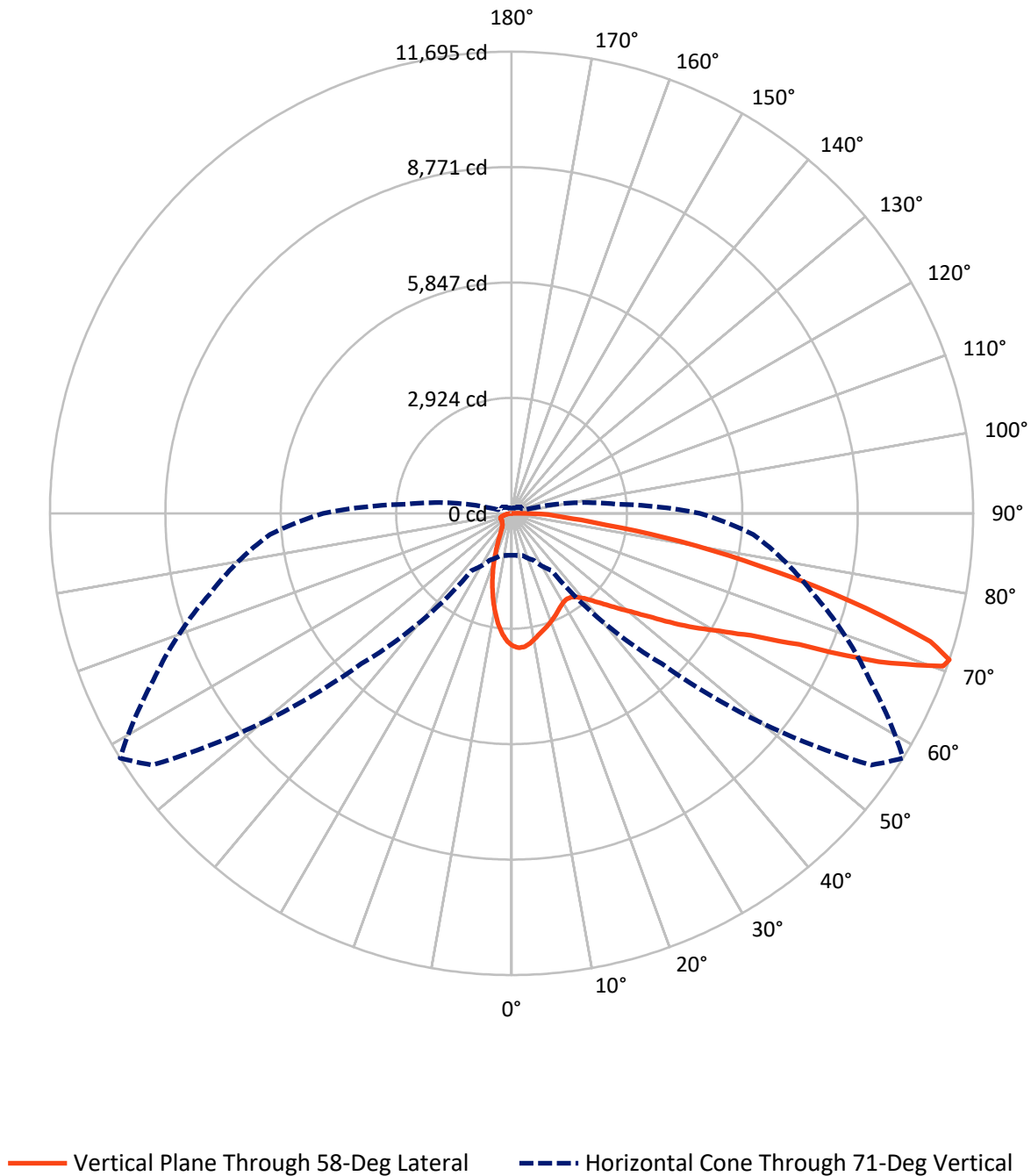
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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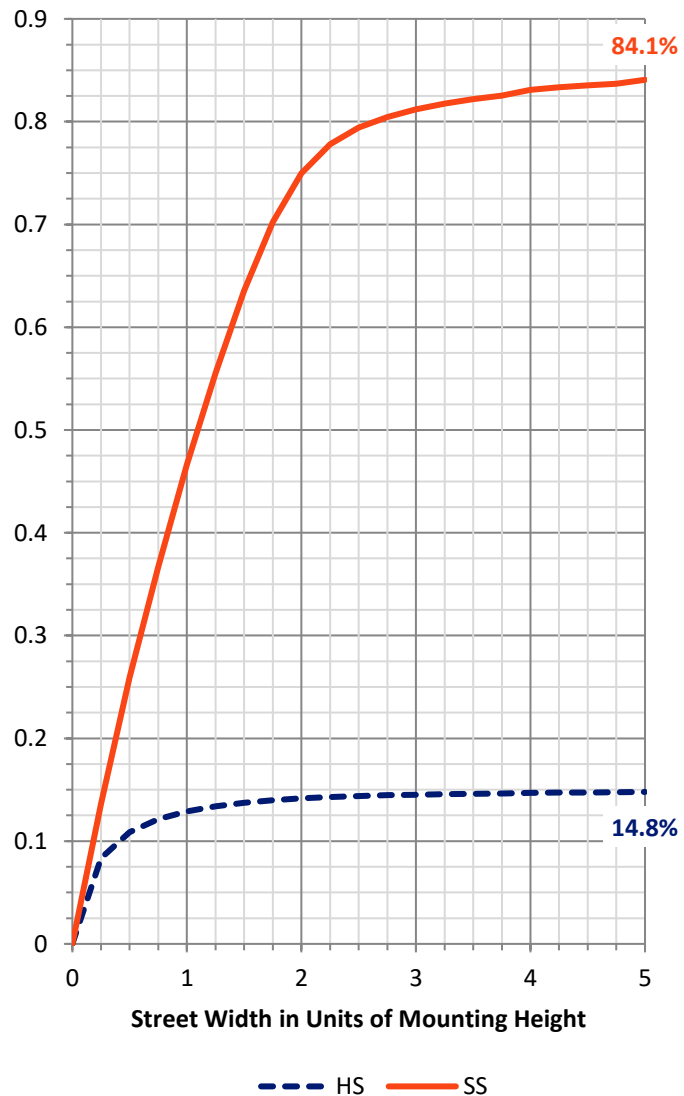
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1809.6	0.0	1809.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	10294.4	0.0	10294.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	12104.0	0.0	12104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.3	2.4
10°-20°	643.3	5.3
20°-30°	817.6	6.8
30°-40°	1041.5	8.6
40°-50°	1476.9	12.2
50°-60°	2285.5	18.9
60°-70°	3111.4	25.7
70°-80°	2075.7	17.1
80°-90°	362.9	3.0
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°	12104.0	100.0
0°-180°	12104.0	100.0

Coefficient of Utilization



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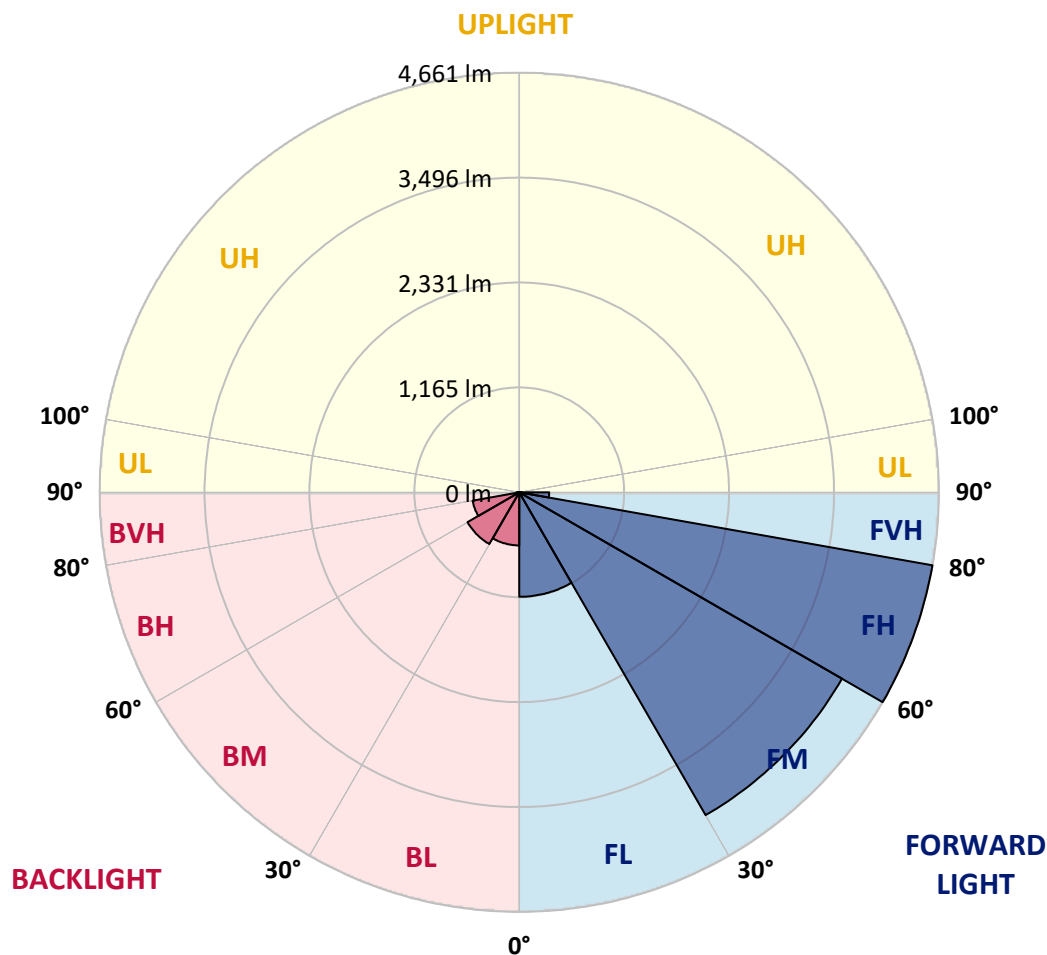
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1160.4	9.6			
FM	(30°-60°)	4140.2	34.2			
FH	(60°-80°)	4661.1	38.5			G2/5000
FVH	(80°-90°)	332.7	2.7			G3/500
BL	(0°-30°)	589.9	4.9	B2/1000		
BM	(30°-60°)	663.6	5.5	B1/1000		
BH	(60°-80°)	526.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	30.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6
2.5°	3442.6	3437.9	3439.6	3436.3	3428.2	3420.2	3408.4	3410.5	3394.1	3369.6	3339.3
5°	3377.6	3376.0	3388.6	3395.8	3401.7	3397.0	3393.7	3397.9	3373.9	3340.1	3287.4
7.5°	3241.5	3222.9	3238.9	3263.0	3285.7	3303.0	3325.8	3328.7	3313.6	3278.1	3209.0
10°	3047.9	3030.2	3053.8	3091.4	3136.9	3178.2	3224.2	3232.6	3235.6	3203.5	3119.6
12.5°	2847.2	2833.8	2857.4	2910.1	2985.5	3049.2	3122.6	3135.2	3161.4	3139.9	3037.0
15°	2667.6	2662.6	2691.2	2743.1	2830.0	2927.4	3033.2	3056.4	3100.6	3093.5	2972.5
17.5°	2512.5	2511.2	2533.1	2587.5	2683.7	2806.8	2944.2	2983.4	3049.2	3057.6	2919.3
20°	2396.9	2394.4	2409.6	2449.6	2548.7	2688.3	2848.1	2902.1	2996.9	3026.4	2864.5
22.5°	2335.0	2334.5	2335.0	2353.9	2434.9	2564.8	2754.5	2820.3	2945.9	3001.6	2803.8
25°	2324.4	2323.2	2313.9	2311.8	2357.7	2461.5	2661.7	2734.2	2897.4	2984.3	2746.1
27.5°	2351.8	2353.5	2341.3	2321.5	2330.8	2393.6	2581.2	2658.8	2858.6	2980.9	2706.0
30°	2408.8	2407.9	2397.4	2376.7	2358.6	2368.3	2523.9	2601.4	2832.5	2995.7	2678.6
32.5°	2471.6	2476.2	2474.1	2462.7	2435.7	2396.9	2506.6	2582.5	2824.9	3031.1	2666.8
35°	2547.0	2552.1	2567.3	2576.1	2544.5	2482.1	2543.7	2609.4	2846.8	3097.7	2685.8
37.5°	2618.7	2631.8	2674.4	2711.9	2684.9	2615.3	2642.3	2689.1	2914.7	3202.7	2736.8
40°	2701.4	2712.7	2782.3	2862.0	2857.8	2785.7	2801.3	2832.5	3034.4	3353.2	2829.1
42.5°	2782.7	2805.5	2906.3	3019.3	3051.7	2988.1	3012.9	3029.4	3203.1	3552.6	2990.2
45°	2891.1	2915.5	3055.5	3191.7	3267.6	3231.8	3271.4	3277.7	3415.2	3824.2	3224.2
47.5°	3055.1	3082.9	3246.1	3389.0	3505.0	3508.8	3574.1	3571.6	3680.0	4134.9	3518.9
50°	3310.6	3350.7	3484.3	3618.0	3758.8	3837.2	3924.5	3912.3	3997.4	4465.9	3858.3
52.5°	3645.4	3663.9	3763.0	3861.7	4036.7	4212.5	4337.7	4326.7	4357.5	4806.1	4243.7
55°	3992.4	4006.3	4047.2	4101.2	4336.4	4623.1	4887.9	4870.6	4792.6	5159.4	4624.4
57.5°	4304.4	4332.6	4360.9	4383.2	4638.3	5052.4	5450.8	5452.1	5264.9	5540.6	5017.8
60°	4352.9	4377.7	4564.5	4740.8	5154.8	5624.9	6053.3	6040.6	5753.5	5954.2	5456.3
62.5°	3847.8	3903.8	4215.8	4684.7	5652.3	6672.2	6821.9	6806.3	6337.9	6464.0	5966.9
65°	2757.4	2821.1	3197.6	3902.2	5411.2	7826.2	8209.1	7999.1	7134.8	7090.9	6564.7
67.5°	1590.8	1606.0	1769.1	2335.0	4120.1	7886.5	10325.2	10031.3	8372.2	7802.2	6857.3
70°	1176.3	1175.9	1214.7	1436.9	2229.6	6436.6	11331.6	11595.2	9675.1	8036.2	6443.7
71°	1063.8	1065.0	1108.5	1307.9	1765.8	5387.5	11117.9	11694.7	10018.3	7920.7	6144.4
72.5°	909.9	914.1	974.4	1173.0	1485.4	3715.4	10197.0	11097.6	10181.0	7635.7	5675.9
75°	690.2	699.9	783.4	988.7	1357.6	1884.2	7483.9	8861.7	9044.3	6737.6	4217.5
77.5°	492.5	503.4	597.9	831.4	1290.6	1420.0	5011.9	6464.0	6655.8	4317.9	1902.4
80°	311.2	324.2	395.5	661.5	1212.6	1348.4	3149.5	4344.9	3629.4	1381.7	484.0
82.5°	182.6	192.7	245.4	432.2	990.4	1298.6	1853.0	2408.3	1412.4	417.4	220.1
85°	105.8	110.5	153.1	275.3	719.3	1225.7	1361.4	1346.3	613.0	204.1	104.1
87.5°	49.3	54.8	90.6	143.8	399.3	888.4	1076.0	929.7	381.2	95.7	48.9
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°	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6
2.5°	3324.5	3317.4	3287.4	3260.9	3233.0	3196.8	3156.7	3151.7	3127.2	3131.8	3123.4
5°	3258.8	3240.6	3168.5	3103.2	3026.0	2956.9	2881.8	2847.2	2797.5	2794.1	2781.5
7.5°	3164.7	3131.0	3019.3	2895.3	2771.4	2653.3	2536.5	2459.8	2381.3	2348.0	2345.1
10°	3058.9	3001.6	2837.1	2653.7	2474.9	2302.5	2135.5	2012.0	1900.7	1848.0	1845.9
12.5°	2958.6	2873.8	2648.2	2398.6	2154.1	1930.6	1701.7	1539.4	1399.8	1353.0	1333.2
15°	2873.4	2754.1	2464.4	2145.2	1848.4	1538.1	1277.5	1106.8	977.8	933.1	924.6
17.5°	2790.7	2637.3	2275.9	1889.3	1530.5	1189.4	928.4	801.5	732.8	714.7	714.2
20°	2708.5	2517.1	2079.0	1627.5	1223.1	889.6	713.8	656.9	633.7	631.6	628.2
22.5°	2615.3	2389.8	1872.0	1364.8	954.6	699.5	606.7	584.0	581.0	588.6	588.6
25°	2528.1	2263.3	1662.1	1107.6	742.5	583.5	541.8	537.2	545.2	558.7	559.9
27.5°	2446.7	2141.4	1457.1	879.1	594.9	514.0	496.7	502.2	516.5	532.1	532.5
30°	2379.7	2026.3	1258.1	692.7	502.6	462.1	459.2	470.1	485.7	497.9	500.9
32.5°	2327.8	1928.1	1065.9	557.0	442.3	423.3	425.8	435.1	444.8	451.6	456.2
35°	2303.8	1843.8	888.4	469.7	403.9	393.4	396.8	401.8	406.0	411.1	414.9
37.5°	2308.0	1778.4	729.8	415.3	378.2	372.7	372.7	372.7	372.7	375.2	375.7
40°	2347.2	1740.9	600.8	380.7	360.9	355.0	350.4	346.2	342.8	344.5	343.6
42.5°	2447.5	1737.5	506.4	358.8	347.0	337.3	328.0	322.1	317.9	319.6	320.4
45°	2617.9	1779.7	442.7	343.2	333.9	319.2	307.4	301.0	298.1	303.6	304.4
47.5°	2838.4	1871.6	403.9	331.8	321.7	302.3	289.7	283.8	284.6	292.6	294.7
50°	3122.6	2020.9	385.4	324.7	313.3	288.0	274.9	269.8	272.4	283.8	286.3
52.5°	3434.6	2235.9	387.5	322.5	307.8	277.4	263.5	257.6	261.8	272.4	274.5
55°	3794.6	2494.3	422.5	325.5	299.8	270.7	254.2	244.1	247.5	257.2	258.9
57.5°	4194.8	2790.3	492.9	324.7	289.7	264.4	244.5	229.4	231.9	237.8	239.5
60°	4611.3	3147.9	602.1	327.2	285.0	256.8	231.5	212.5	211.7	216.7	217.6
62.5°	5111.4	3561.5	726.9	328.9	288.0	247.1	214.2	195.6	193.1	194.4	195.2
65°	5626.6	3860.8	680.1	322.1	297.2	239.1	199.0	179.2	174.6	173.7	174.1
67.5°	5642.6	3540.0	476.9	308.6	301.0	234.8	187.6	165.3	157.7	154.7	154.3
70°	5060.4	2875.9	371.5	294.3	285.9	228.1	177.1	153.9	142.5	137.9	137.5
71°	4776.2	2647.4	352.1	287.1	274.5	221.4	172.4	148.8	137.0	132.0	131.1
72.5°	4330.5	2373.3	328.4	275.7	252.6	204.1	163.6	141.7	129.4	123.5	122.3
75°	3107.8	1552.0	282.1	245.8	209.1	162.7	143.4	127.3	116.8	109.6	108.8
77.5°	1197.4	617.7	213.3	204.5	160.2	127.3	118.1	110.0	102.5	95.3	94.9
80°	370.2	276.2	155.6	153.9	115.9	94.9	91.9	89.8	86.9	79.3	77.6
82.5°	197.7	158.5	107.1	99.5	75.9	63.2	66.6	67.5	67.9	59.9	59.0
85°	94.4	83.9	60.3	56.5	44.3	35.4	40.9	44.3	44.7	36.7	34.2
87.5°	45.1	43.8	28.2	21.5	16.4	11.8	14.3	17.7	19.4	13.9	12.2
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)