

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: P319446

Luminaire Tested: **GAN-SA2C-760-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-760-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14177 lumens
Efficiency: N/A
Efficacy: 125.5 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

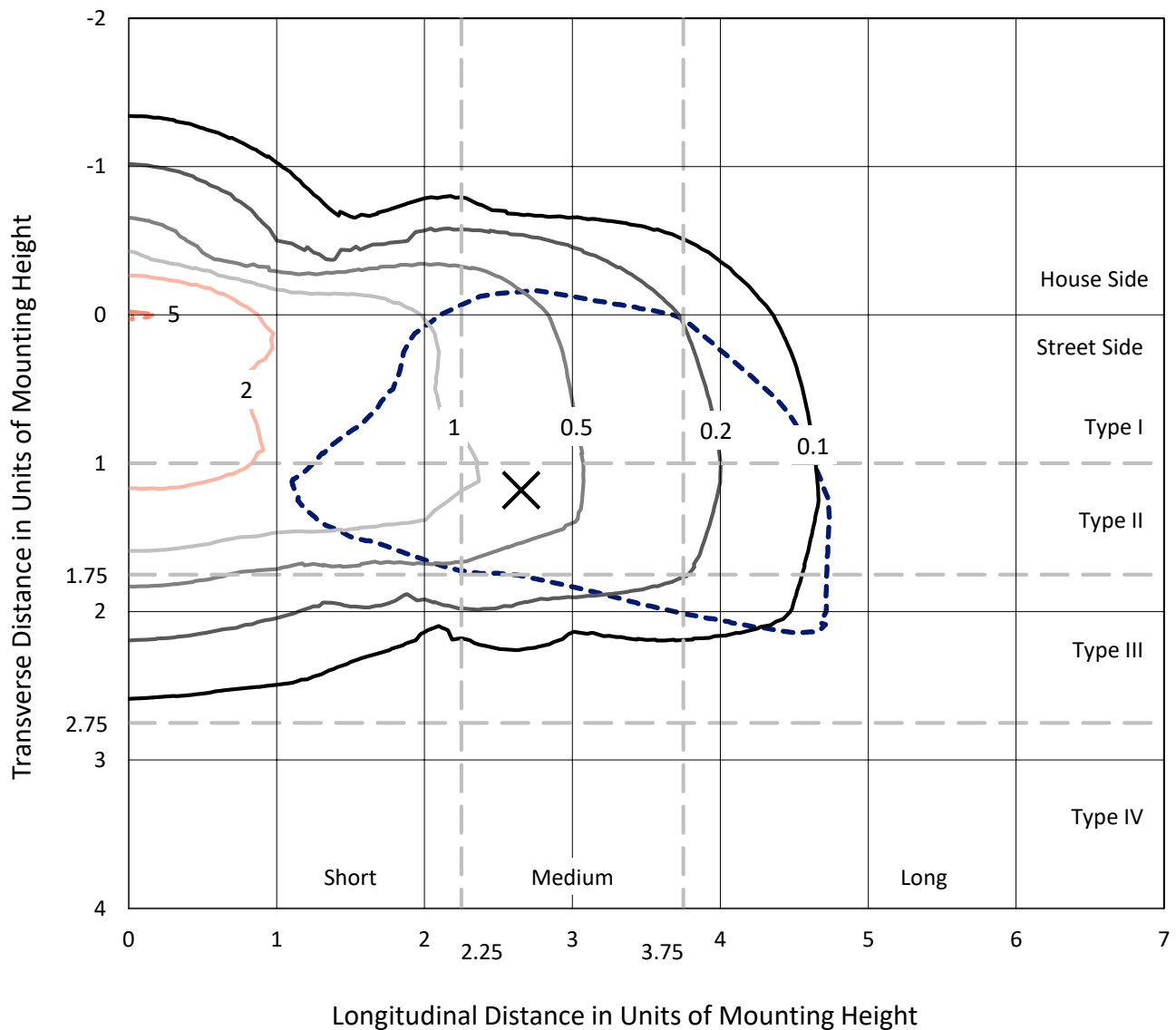


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Iso-Footcandle Lines of Horizontal Illumination

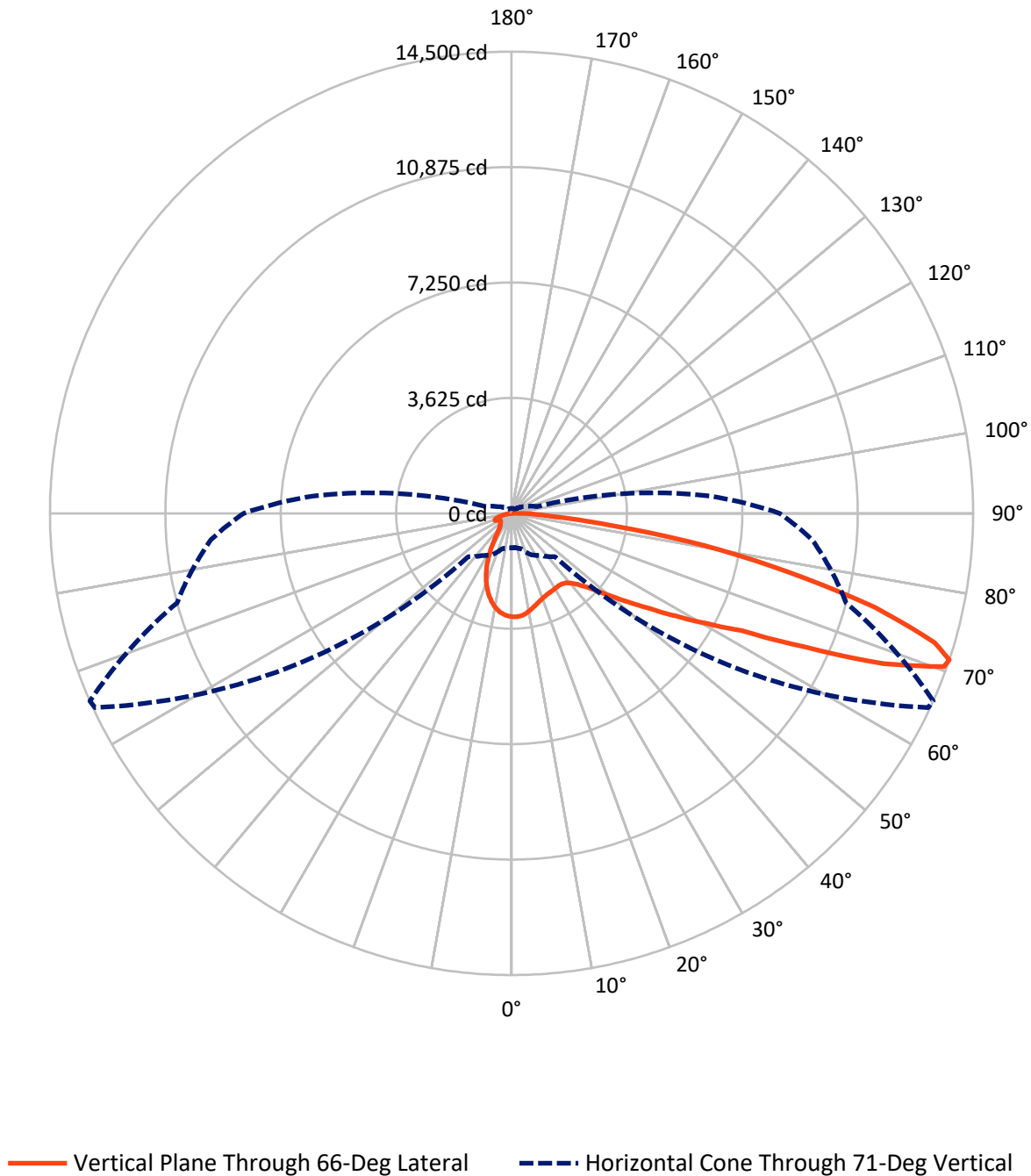
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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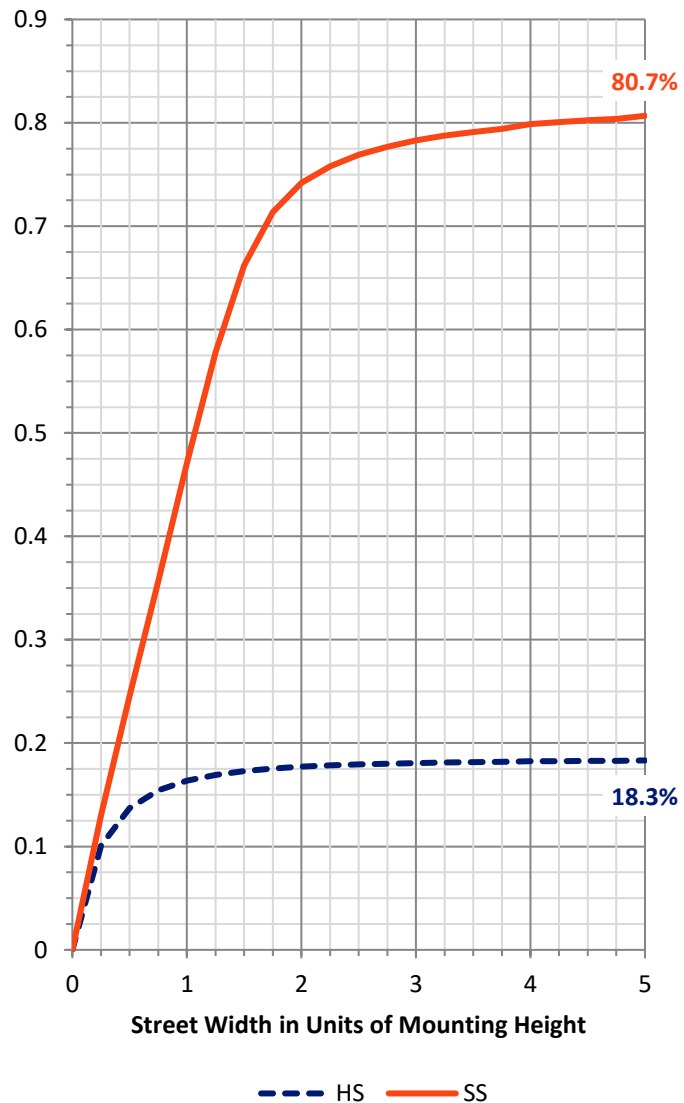
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2627.4	0.0	2627.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	11549.6	0.0	11549.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	14177.0	0.0	14177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.9	2.0
10°-20°	685.6	4.8
20°-30°	921.0	6.5
30°-40°	1211.6	8.5
40°-50°	1762.5	12.4
50°-60°	2753.2	19.4
60°-70°	3448.8	24.3
70°-80°	2630.7	18.6
80°-90°	477.7	3.4
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°	14177.0	100.0
0°-180°	14177.0	100.0

Coefficient of Utilization



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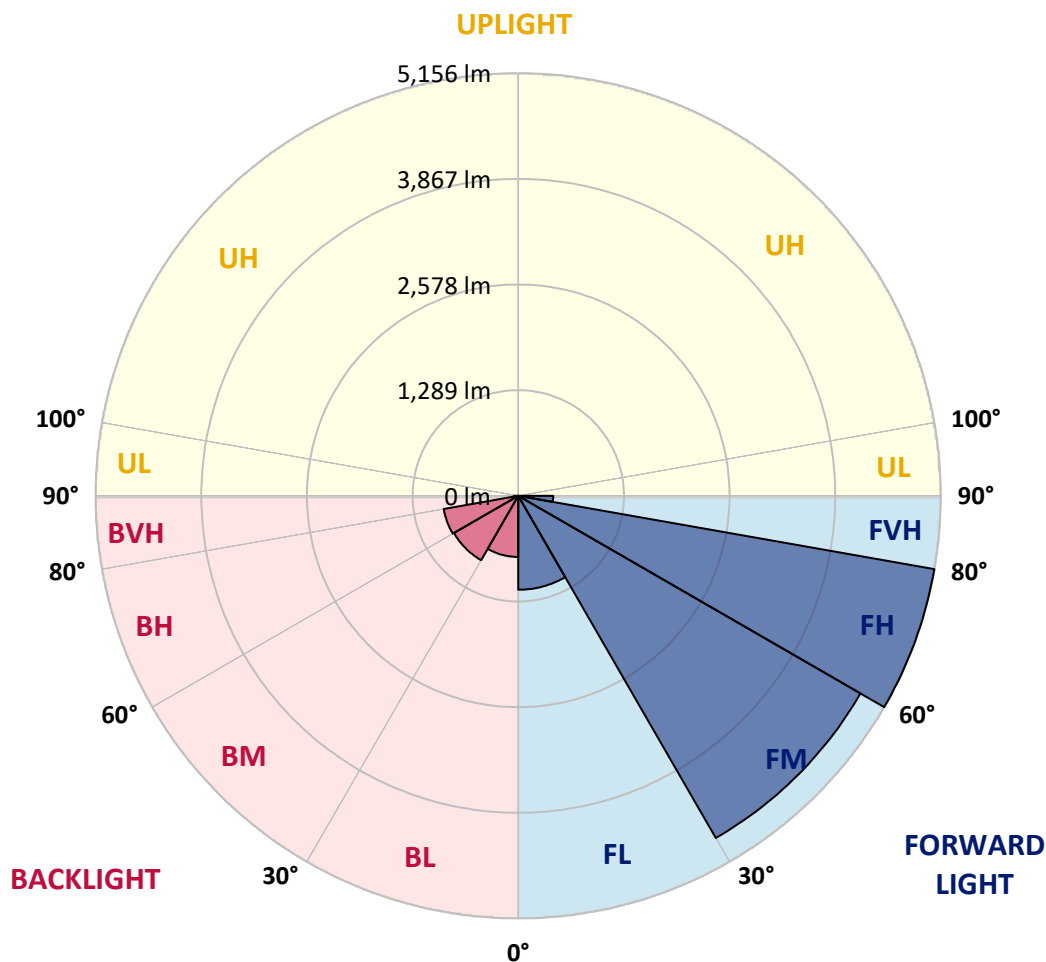
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1146.4	8.1			
FM	(30°-60°)	4820.9	34.0			
FH	(60°-80°)	5156.3	36.4			G3/7500
FVH	(80°-90°)	426.0	3.0			G3/500
BL	(0°-30°)	746.1	5.3	B2/1000		
BM	(30°-60°)	906.4	6.4	B1/1000		
BH	(60°-80°)	923.2	6.5	B2/1000		G2/1000
BVH	(80°-90°)	51.7	0.4			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°	65°	66°	75°	85°
0°	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7
2.5°	3187.5	3182.6	3197.3	3212.4	3218.3	3228.1	3242.8	3251.1	3250.6	3252.1	3247.2
5°	2976.0	2969.7	2999.0	3023.0	3069.0	3120.9	3184.0	3229.1	3230.1	3255.5	3262.4
7.5°	2775.8	2771.4	2805.2	2843.9	2897.2	2976.5	3078.8	3175.7	3181.6	3250.6	3274.6
10°	2615.3	2614.3	2647.1	2689.2	2751.3	2839.9	2957.4	3099.4	3108.2	3227.1	3276.6
12.5°	2490.0	2491.9	2520.3	2568.3	2633.9	2726.4	2853.6	3013.7	3027.9	3189.9	3265.3
15°	2397.5	2405.3	2428.3	2476.8	2541.4	2635.3	2766.0	2934.4	2955.9	3148.3	3258.9
17.5°	2344.6	2353.4	2369.6	2409.7	2470.4	2560.9	2684.8	2869.3	2888.9	3116.5	3259.4
20°	2328.9	2336.3	2345.6	2370.0	2421.4	2503.7	2620.7	2810.6	2831.6	3091.0	3264.3
22.5°	2359.8	2365.2	2366.1	2364.2	2395.5	2462.6	2574.2	2767.5	2790.0	3074.4	3267.7
25°	2425.8	2433.2	2427.8	2409.7	2399.4	2440.5	2550.2	2739.1	2761.6	3062.2	3260.9
27.5°	2525.2	2526.2	2521.8	2498.3	2449.8	2443.0	2542.8	2722.5	2744.0	3048.0	3246.7
30°	2660.3	2666.7	2658.8	2627.0	2547.7	2482.1	2551.6	2706.3	2725.9	3029.9	3223.7
32.5°	2818.4	2834.1	2833.6	2800.3	2686.7	2569.8	2587.9	2696.5	2711.7	3010.8	3195.8
35°	2982.4	3003.9	3044.1	3029.9	2889.4	2708.3	2657.4	2712.2	2722.5	3008.3	3176.2
37.5°	3152.7	3174.3	3257.0	3295.2	3130.7	2906.5	2767.0	2767.5	2772.4	3038.2	3174.7
40°	3330.9	3353.9	3478.2	3577.6	3443.5	3157.6	2943.7	2883.0	2877.6	3111.6	3203.6
42.5°	3580.5	3601.1	3750.4	3877.1	3790.5	3479.2	3188.0	3061.2	3049.9	3255.5	3296.1
45°	3896.2	3913.9	4072.4	4208.0	4163.5	3846.3	3494.9	3306.4	3304.5	3495.4	3483.6
47.5°	4271.7	4285.4	4427.8	4559.0	4575.1	4268.7	3880.6	3684.8	3653.0	3824.3	3773.9
50°	4662.8	4677.9	4774.8	4915.8	5035.7	4834.1	4376.9	4148.3	4105.7	4258.4	4185.0
52.5°	4921.7	4941.8	5025.9	5204.6	5553.6	5453.7	4963.8	4710.2	4645.6	4784.6	4728.3
55°	4806.2	4851.2	4979.9	5266.3	5967.7	6400.4	5687.7	5365.6	5292.7	5408.2	5374.9
57.5°	4281.0	4342.6	4518.4	4960.4	6025.9	7234.5	6782.2	6137.5	6086.2	6052.9	6068.0
60°	3321.1	3380.3	3598.1	4174.3	5620.2	7843.4	8429.3	7089.1	7014.7	6700.0	6713.7
62.5°	2350.5	2320.6	2469.9	2891.3	4566.8	7914.8	10303.5	8361.7	8117.0	7383.3	7323.1
65°	1792.5	1785.6	1852.7	1986.8	2766.0	7059.7	11420.0	10500.7	10118.5	8187.0	8045.0
67.5°	1472.8	1460.6	1526.7	1722.0	1781.2	4554.6	11444.4	12982.4	12607.0	9187.5	8880.1
70°	1211.0	1197.3	1258.9	1511.0	1646.1	2309.8	9631.9	14435.6	14415.6	10454.2	9510.5
71°	1085.7	1075.9	1149.8	1429.8	1617.2	1925.1	8316.2	14439.6	14499.8	10883.0	9473.3
72.5°	884.0	887.4	965.7	1272.6	1595.7	1700.0	6112.1	13766.5	13893.8	11291.7	9135.1
75°	587.4	590.3	693.1	979.0	1547.2	1663.2	3359.3	11551.6	11785.6	11047.0	8335.8
77.5°	394.5	393.5	463.5	671.6	1348.0	1663.2	1969.7	8639.7	8896.7	8790.0	6426.3
80°	271.7	269.7	319.1	463.5	1020.6	1683.3	1522.8	6054.8	6132.7	4746.9	2611.8
82.5°	166.4	167.9	208.5	327.5	694.6	1514.9	1437.6	3301.5	3216.8	1331.4	652.5
85°	95.4	95.0	133.1	221.7	445.9	1278.5	1401.9	1421.0	1303.5	400.9	235.9
87.5°	34.3	36.7	71.5	122.9	255.5	890.4	1189.4	739.1	666.2	181.1	106.7
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°	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7
2.5°	3243.8	3246.7	3243.3	3223.7	3207.0	3180.1	3165.0	3143.9	3137.5	3134.6	3142.4
5°	3256.0	3257.0	3228.1	3176.7	3118.9	3050.9	3002.0	2941.8	2913.4	2901.1	2909.0
7.5°	3267.3	3262.9	3199.7	3101.3	2994.6	2876.2	2770.9	2674.5	2618.2	2595.2	2597.2
10°	3268.7	3250.1	3148.8	2996.6	2831.1	2657.4	2495.8	2347.0	2253.1	2191.9	2210.5
12.5°	3253.5	3222.2	3073.9	2861.0	2631.4	2394.5	2176.2	1953.0	1818.9	1756.7	1758.7
15°	3241.8	3185.0	2981.9	2701.4	2393.1	2079.3	1781.2	1518.8	1375.9	1312.3	1282.4
17.5°	3232.0	3144.9	2875.2	2521.8	2111.6	1713.7	1355.4	1121.4	1043.1	1024.5	1016.6
20°	3218.3	3102.3	2756.2	2313.8	1791.0	1304.5	989.7	874.2	874.7	896.2	899.2
22.5°	3199.2	3053.8	2629.5	2080.3	1446.9	950.1	775.8	742.5	776.3	817.4	824.8
25°	3170.8	2996.6	2488.5	1822.3	1103.3	730.3	662.8	661.3	702.4	745.5	751.8
27.5°	3130.7	2921.7	2331.9	1545.3	813.0	620.7	593.7	604.0	634.4	665.7	668.1
30°	3076.8	2834.6	2159.1	1253.1	637.3	552.6	549.7	559.0	577.6	599.6	601.6
32.5°	3017.6	2746.0	1974.5	970.1	545.8	515.9	518.8	523.3	532.1	540.9	542.8
35°	2963.8	2655.4	1785.6	737.2	502.2	491.9	490.0	489.0	490.0	487.0	487.5
37.5°	2929.0	2580.5	1588.8	586.9	477.2	470.9	465.0	457.7	449.3	444.4	445.4
40°	2916.3	2524.7	1389.6	507.1	456.7	452.3	441.0	425.4	415.6	412.6	412.6
42.5°	2950.6	2495.8	1197.3	467.0	439.5	432.2	413.6	395.5	388.2	387.7	387.2
45°	3055.3	2507.6	1014.2	444.9	423.9	409.7	385.2	370.0	365.1	366.1	365.6
47.5°	3243.3	2581.5	857.6	430.2	408.2	389.6	362.2	350.0	344.1	344.1	344.6
50°	3562.9	2754.3	732.7	418.0	395.0	371.0	345.6	330.4	322.6	322.1	322.1
52.5°	4028.4	3063.6	654.9	407.7	380.3	354.4	328.9	309.8	300.5	298.6	297.6
55°	4611.8	3507.1	633.4	400.9	360.7	336.3	308.9	289.8	279.5	275.1	274.6
57.5°	5264.3	4046.5	676.0	392.6	340.7	314.7	286.8	268.7	258.0	252.6	252.1
60°	5924.6	4635.3	849.7	380.8	324.0	291.2	264.3	247.7	236.9	231.0	230.1
62.5°	6585.9	5256.0	1204.6	379.8	312.3	268.7	241.3	227.1	216.8	210.5	209.0
65°	7331.9	5935.4	1607.9	405.8	308.4	248.2	217.8	206.6	197.7	191.9	191.4
67.5°	8188.5	6702.4	1569.3	459.1	321.6	229.6	195.8	187.0	180.6	175.7	175.2
70°	8590.3	6582.5	975.5	496.8	340.2	211.5	174.7	168.4	163.5	160.1	158.6
71°	8421.9	6250.1	817.9	492.4	338.2	203.6	166.4	161.5	156.6	153.7	152.2
72.5°	7962.8	5700.0	682.3	458.1	316.2	189.4	155.7	150.8	146.4	142.9	141.9
75°	7145.4	5090.6	546.3	366.1	252.1	160.1	136.6	131.2	127.8	125.8	123.8
77.5°	5252.6	3632.9	422.4	289.3	185.5	130.7	116.5	112.6	109.2	106.2	104.7
80°	2012.2	1407.2	284.4	215.9	136.1	103.3	94.0	92.0	88.6	86.6	86.6
82.5°	541.9	420.5	151.7	130.7	91.0	75.4	72.0	71.0	68.0	64.1	64.6
85°	219.3	185.5	85.2	72.0	55.8	44.5	48.5	48.9	45.5	40.6	41.1
87.5°	96.4	78.8	47.5	31.8	24.5	17.1	22.0	22.0	20.1	16.6	15.2
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)