

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: P319517

Luminaire Tested: **GAN-SA3B-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319517
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-SA3B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 13581 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

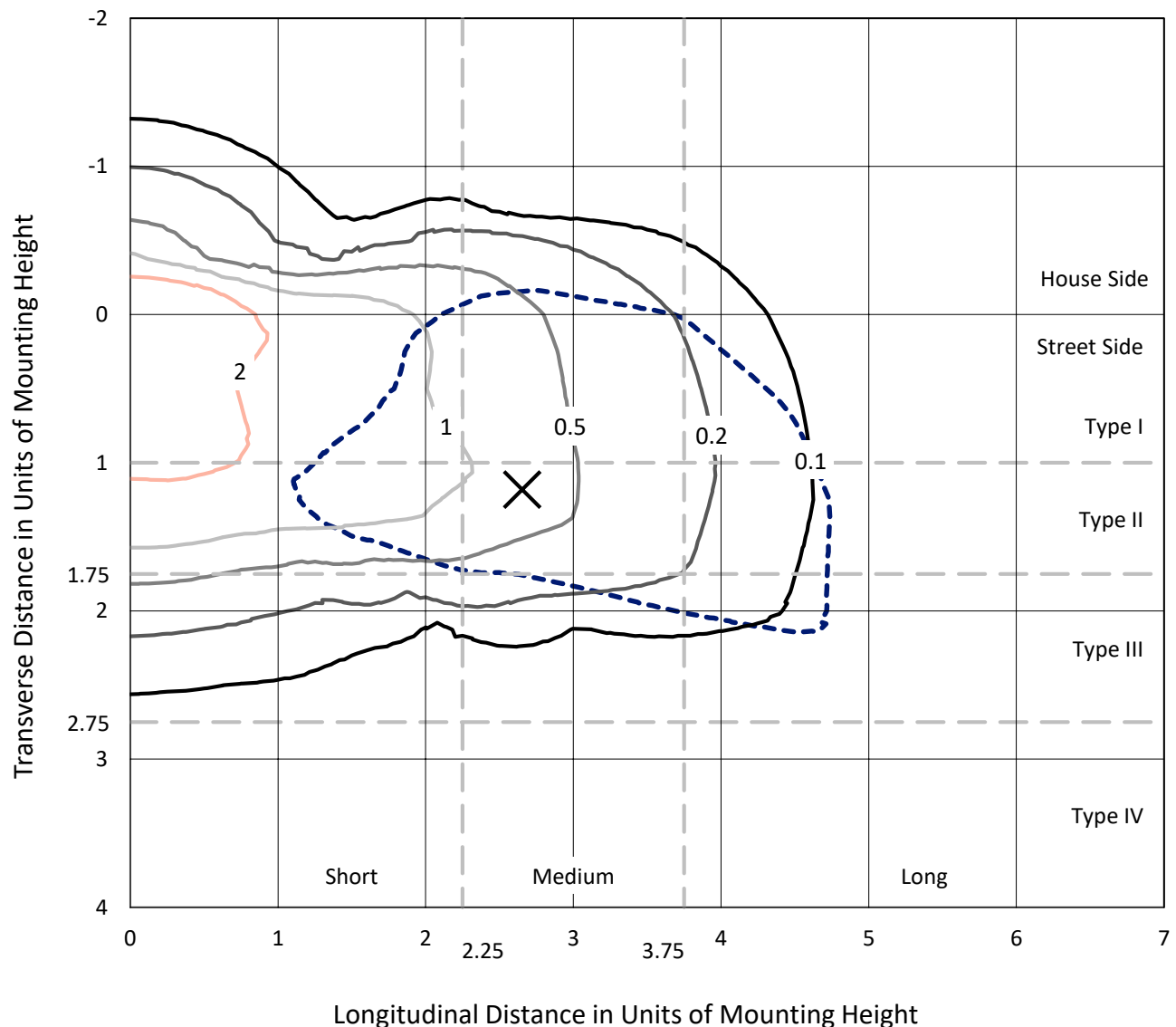
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

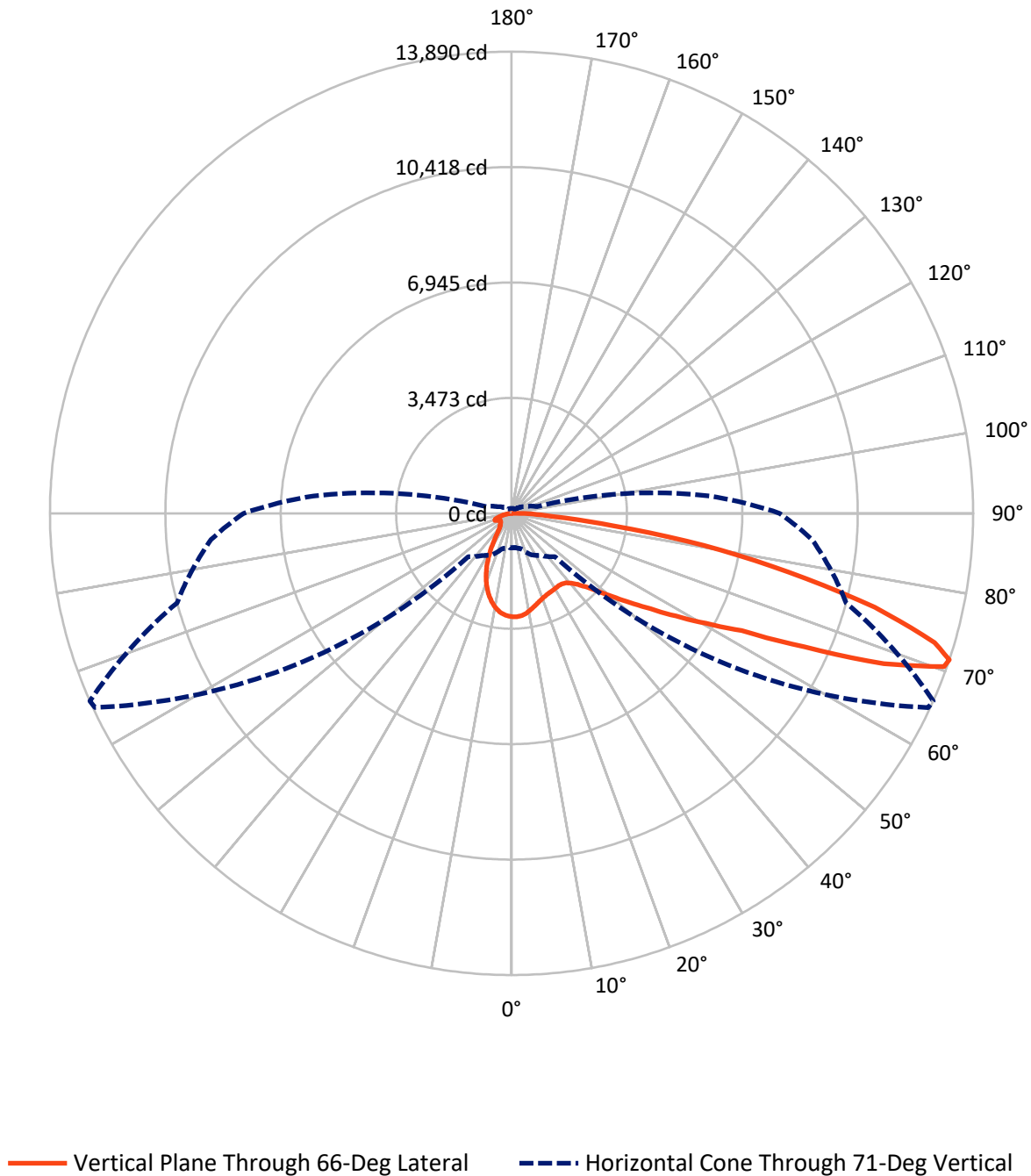
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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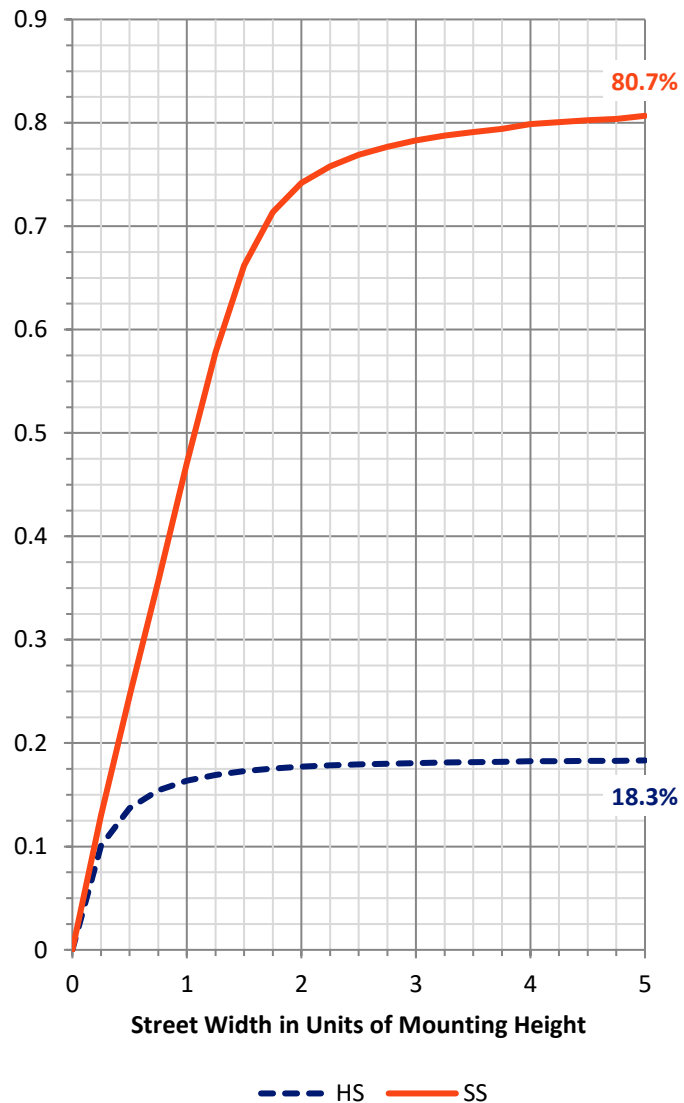
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2516.9	0.0	2516.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	11064.1	0.0	11064.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	13581.0	0.0	13581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	2.0
10°-20°	656.8	4.8
20°-30°	882.3	6.5
30°-40°	1160.6	8.5
40°-50°	1688.4	12.4
50°-60°	2637.5	19.4
60°-70°	3303.8	24.3
70°-80°	2520.1	18.6
80°-90°	457.6	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°	13581.0	100.0
0°-180°	13581.0	100.0

Coefficient of Utilization



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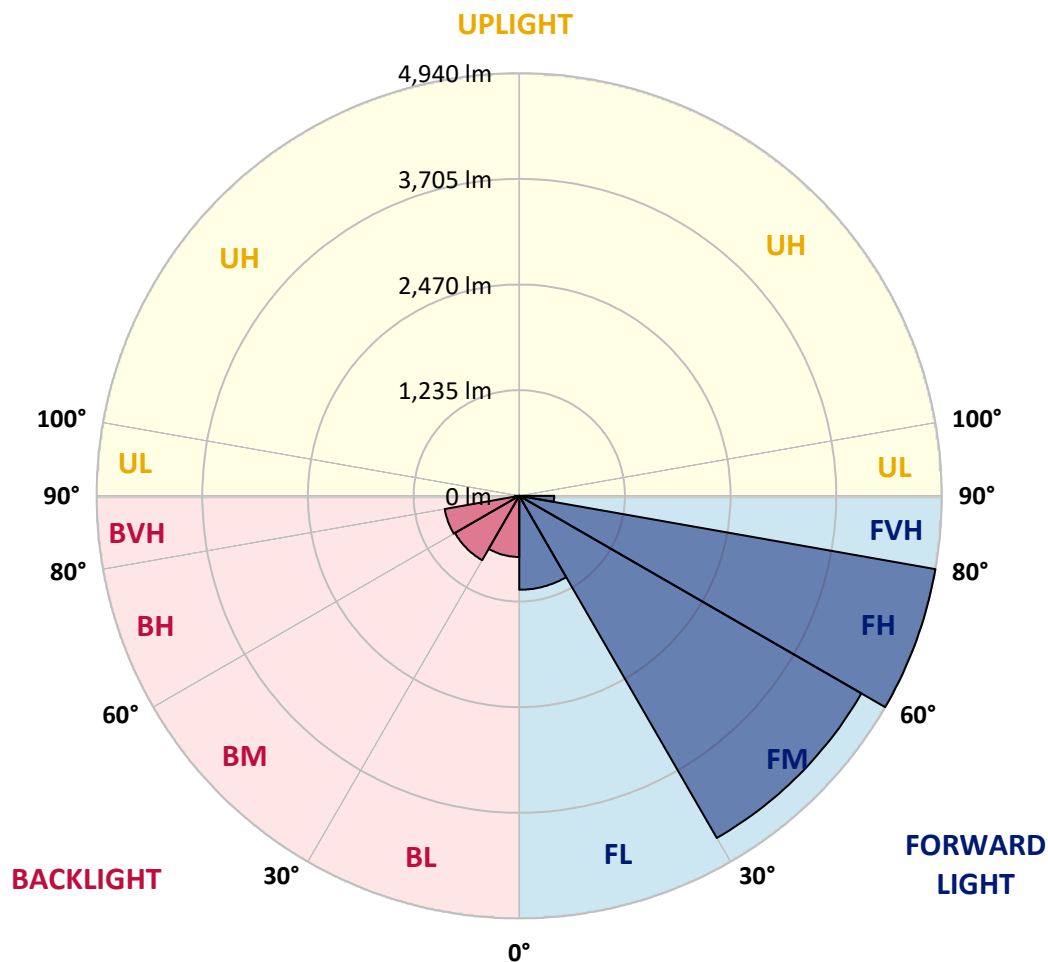
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1098.2	8.1			
FM	(30°-60°)	4618.2	34.0			
FH	(60°-80°)	4939.5	36.4			G2/5000
FVH	(80°-90°)	408.1	3.0			G3/500
BL	(0°-30°)	714.7	5.3	B2/1000		
BM	(30°-60°)	868.3	6.4	B1/1000		
BH	(60°-80°)	884.4	6.5	B2/1000		G2/1000
BVH	(80°-90°)	49.5	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°	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1
2.5°	3053.5	3048.8	3062.8	3077.4	3083.0	3092.4	3106.5	3114.4	3114.0	3115.4	3110.7
5°	2850.9	2844.8	2872.9	2895.9	2940.0	2989.7	3050.2	3093.3	3094.3	3118.6	3125.2
7.5°	2659.1	2654.9	2687.3	2724.3	2775.4	2851.4	2949.4	3042.2	3047.8	3114.0	3136.9
10°	2505.3	2504.4	2535.8	2576.1	2635.7	2720.6	2833.1	2969.1	2977.5	3091.5	3138.8
12.5°	2385.3	2387.2	2414.4	2460.3	2523.1	2611.8	2733.7	2887.0	2900.6	3055.8	3128.0
15°	2296.7	2304.2	2326.2	2372.6	2434.5	2524.6	2649.7	2811.0	2831.7	3016.0	3121.9
17.5°	2246.0	2254.5	2269.9	2308.4	2366.5	2453.3	2571.9	2748.7	2767.4	2985.5	3122.4
20°	2231.0	2238.1	2247.0	2270.4	2319.6	2398.4	2510.5	2692.4	2712.6	2961.1	3127.1
22.5°	2260.6	2265.7	2266.7	2264.8	2294.8	2359.0	2465.9	2651.2	2672.7	2945.2	3130.4
25°	2323.9	2330.9	2325.7	2308.4	2298.5	2337.9	2443.0	2624.0	2645.5	2933.4	3123.8
27.5°	2419.0	2420.0	2415.8	2393.3	2346.8	2340.3	2435.9	2608.0	2628.6	2919.8	3110.2
30°	2548.5	2554.6	2547.1	2516.6	2440.6	2377.8	2444.4	2592.5	2611.3	2902.5	3088.2
32.5°	2699.9	2714.9	2714.5	2682.6	2573.8	2461.7	2479.1	2583.2	2597.7	2884.2	3061.4
35°	2857.0	2877.6	2916.1	2902.5	2767.9	2594.4	2545.7	2598.2	2608.0	2881.9	3042.7
37.5°	3020.2	3040.8	3120.1	3156.6	2999.1	2784.3	2650.7	2651.2	2655.8	2910.5	3041.3
40°	3190.9	3212.9	3332.0	3427.2	3298.7	3024.9	2820.0	2761.8	2756.7	2980.8	3068.9
42.5°	3430.0	3449.7	3592.7	3714.1	3631.2	3332.9	3053.9	2932.5	2921.7	3118.6	3157.6
45°	3732.4	3749.3	3901.2	4031.1	3988.5	3684.6	3347.9	3167.4	3165.5	3348.4	3337.2
47.5°	4092.1	4105.2	4241.7	4367.3	4382.8	4089.3	3717.4	3529.9	3499.4	3663.5	3615.2
50°	4466.7	4481.3	4574.1	4709.2	4824.0	4630.8	4192.9	3973.9	3933.1	4079.4	4009.1
52.5°	4714.8	4734.0	4814.7	4985.8	5320.1	5224.5	4755.1	4512.2	4450.3	4583.5	4529.6
55°	4604.1	4647.3	4770.6	5044.9	5716.8	6131.3	5448.6	5140.1	5070.2	5180.9	5149.0
57.5°	4101.0	4160.1	4328.4	4751.8	5772.6	6930.3	6497.1	5879.5	5830.3	5798.4	5812.9
60°	3181.5	3238.2	3446.9	3998.8	5383.9	7513.6	8074.9	6791.1	6719.8	6418.3	6431.4
62.5°	2251.7	2223.0	2366.1	2769.8	4374.8	7582.1	9870.3	8010.2	7775.8	7072.9	7015.2
65°	1717.1	1710.5	1774.8	1903.3	2649.7	6762.9	10939.9	10059.3	9693.1	7842.8	7706.8
67.5°	1410.9	1399.2	1462.5	1649.6	1706.3	4363.1	10963.3	12436.6	12077.0	8801.2	8506.8
70°	1160.1	1146.9	1206.0	1447.5	1576.9	2212.7	9227.0	13828.8	13809.5	10014.7	9110.7
71°	1040.0	1030.6	1101.4	1369.7	1549.2	1844.2	7966.6	13832.5	13890.2	10425.5	9075.1
72.5°	846.8	850.1	925.1	1219.1	1528.6	1628.5	5855.1	13187.8	13309.7	10817.0	8751.1
75°	562.7	565.5	664.0	937.8	1482.2	1593.3	3218.1	11066.0	11290.1	10582.6	7985.3
77.5°	377.9	377.0	444.0	643.3	1291.3	1593.3	1886.8	8276.5	8522.7	8420.5	6156.2
80°	260.2	258.4	305.7	444.0	977.7	1612.5	1458.7	5800.3	5874.8	4547.4	2502.0
82.5°	159.4	160.8	199.8	313.7	665.4	1451.2	1377.2	3162.7	3081.6	1275.4	625.0
85°	91.4	91.0	127.5	212.4	427.2	1224.8	1342.9	1361.2	1248.7	384.0	226.0
87.5°	32.8	35.2	68.5	117.7	244.8	852.9	1139.4	708.0	638.2	173.5	102.2
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°	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1
2.5°	3107.4	3110.2	3106.9	3088.2	3072.2	3046.4	3031.9	3011.7	3005.6	3002.8	3010.3
5°	3119.1	3120.1	3092.4	3043.2	2987.8	2922.6	2875.8	2818.1	2790.9	2779.2	2786.7
7.5°	3129.9	3125.7	3065.2	2970.9	2868.7	2755.2	2654.4	2562.1	2508.1	2486.1	2488.0
10°	3131.3	3113.5	3016.4	2870.6	2712.1	2545.7	2390.9	2248.4	2158.3	2099.7	2117.5
12.5°	3116.8	3086.8	2944.7	2740.7	2520.8	2293.9	2084.7	1870.9	1742.4	1682.9	1684.8
15°	3105.5	3051.1	2856.5	2587.9	2292.4	1991.9	1706.3	1455.0	1318.1	1257.1	1228.5
17.5°	3096.1	3012.7	2754.3	2415.8	2022.8	1641.6	1298.4	1074.2	999.2	981.4	973.9
20°	3083.0	2971.9	2640.4	2216.5	1715.7	1249.6	948.1	837.5	837.9	858.6	861.4
22.5°	3064.7	2925.5	2518.9	1992.8	1386.1	910.1	743.2	711.3	743.7	783.1	790.1
25°	3037.5	2870.6	2383.9	1745.7	1056.9	699.6	634.9	633.5	672.9	714.1	720.2
27.5°	2999.1	2798.9	2233.8	1480.3	778.8	594.6	568.8	578.6	607.7	637.7	640.0
30°	2947.5	2715.4	2068.3	1200.4	610.5	529.4	526.6	535.5	553.3	574.4	576.3
32.5°	2890.8	2630.5	1891.5	929.4	522.8	494.2	497.0	501.3	509.7	518.1	520.0
35°	2839.2	2543.8	1710.5	706.2	481.1	471.2	469.4	468.4	469.4	466.6	467.0
37.5°	2805.9	2472.0	1522.0	562.2	457.2	451.1	445.5	438.4	430.4	425.8	426.7
40°	2793.7	2418.6	1331.2	485.8	437.5	433.3	422.5	407.5	398.1	395.3	395.3
42.5°	2826.5	2390.9	1146.9	447.3	421.1	414.0	396.2	378.9	371.8	371.4	370.9
45°	2926.9	2402.2	971.6	426.2	406.1	392.5	369.0	354.5	349.8	350.7	350.3
47.5°	3106.9	2473.0	821.5	412.2	391.1	373.2	347.0	335.3	329.6	329.6	330.1
50°	3413.1	2638.5	701.9	400.4	378.4	355.4	331.0	316.5	309.0	308.5	308.5
52.5°	3859.0	2934.8	627.4	390.6	364.3	339.5	315.1	296.8	287.9	286.0	285.1
55°	4418.0	3359.7	606.8	384.0	345.6	322.1	295.9	277.6	267.7	263.5	263.1
57.5°	5043.0	3876.4	647.5	376.1	326.4	301.5	274.8	257.4	247.1	242.0	241.5
60°	5675.6	4440.5	814.0	364.8	310.4	279.0	253.2	237.3	226.9	221.3	220.4
62.5°	6309.0	5035.0	1154.0	363.9	299.2	257.4	231.2	217.6	207.7	201.6	200.2
65°	7023.6	5685.9	1540.3	388.7	295.4	237.7	208.7	197.9	189.4	183.8	183.3
67.5°	7844.2	6420.6	1503.3	439.8	308.1	219.9	187.6	179.1	173.0	168.3	167.9
70°	8229.2	6305.8	934.5	475.9	325.9	202.6	167.4	161.3	156.6	153.3	151.9
71°	8067.9	5987.4	783.5	471.7	324.0	195.1	159.4	154.7	150.0	147.2	145.8
72.5°	7628.0	5460.3	653.6	438.9	302.9	181.5	149.1	144.4	140.2	136.9	136.0
75°	6845.0	4876.5	523.3	350.7	241.5	153.3	130.8	125.7	122.4	120.5	118.6
77.5°	5031.8	3480.2	404.7	277.1	177.7	125.2	111.6	107.8	104.6	101.8	100.3
80°	1927.6	1348.1	272.4	206.8	130.4	98.9	90.0	88.2	84.9	83.0	83.0
82.5°	519.1	402.8	145.4	125.2	87.2	72.2	68.9	68.0	65.2	61.4	61.9
85°	210.1	177.7	81.6	68.9	53.5	42.7	46.4	46.9	43.6	38.9	39.4
87.5°	92.4	75.5	45.5	30.5	23.4	16.4	21.1	21.1	19.2	15.9	14.5
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)