

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: P319816

Luminaire Tested: **GAN-SA2D-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319816
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-SA2D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 11671 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

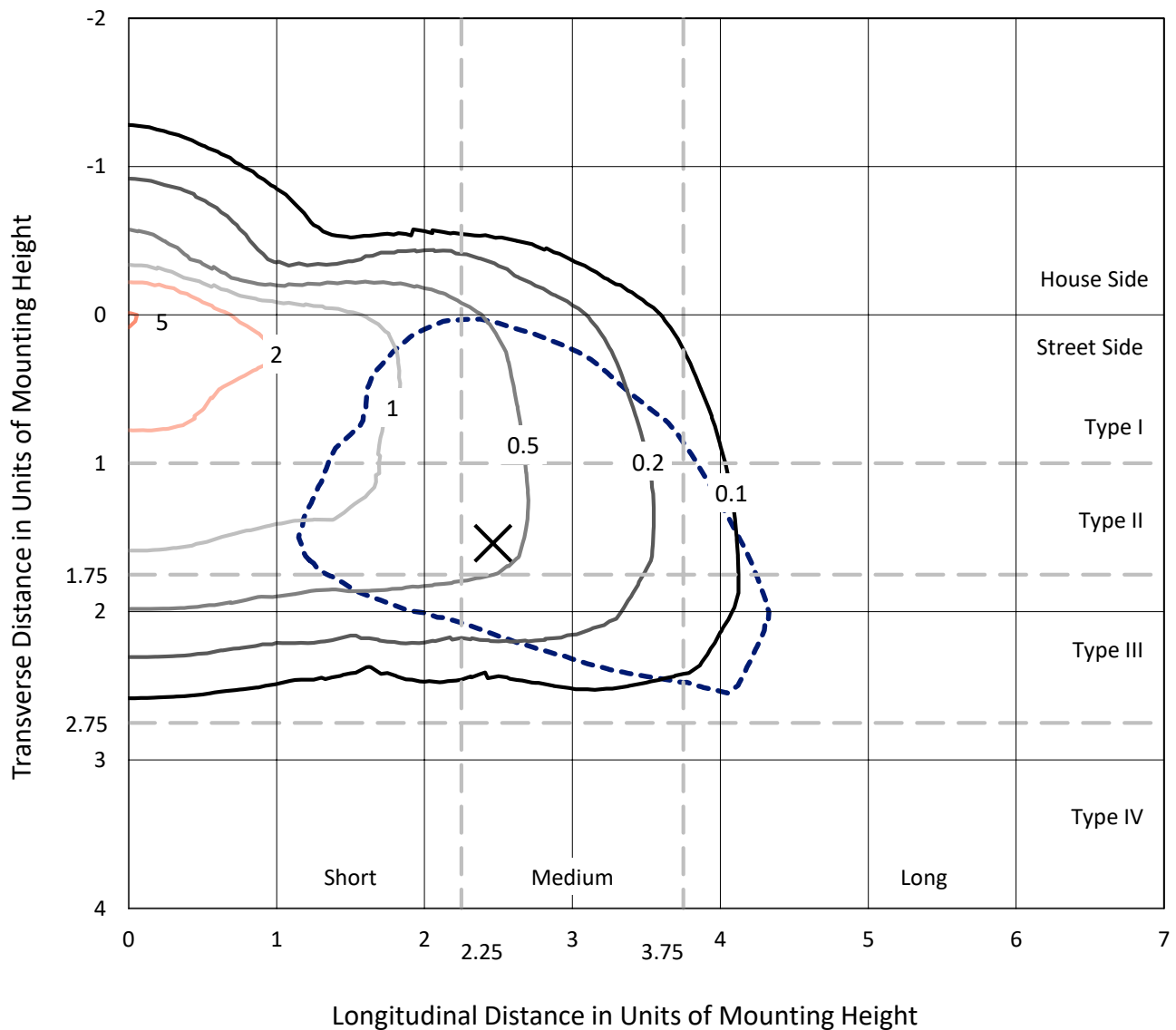
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

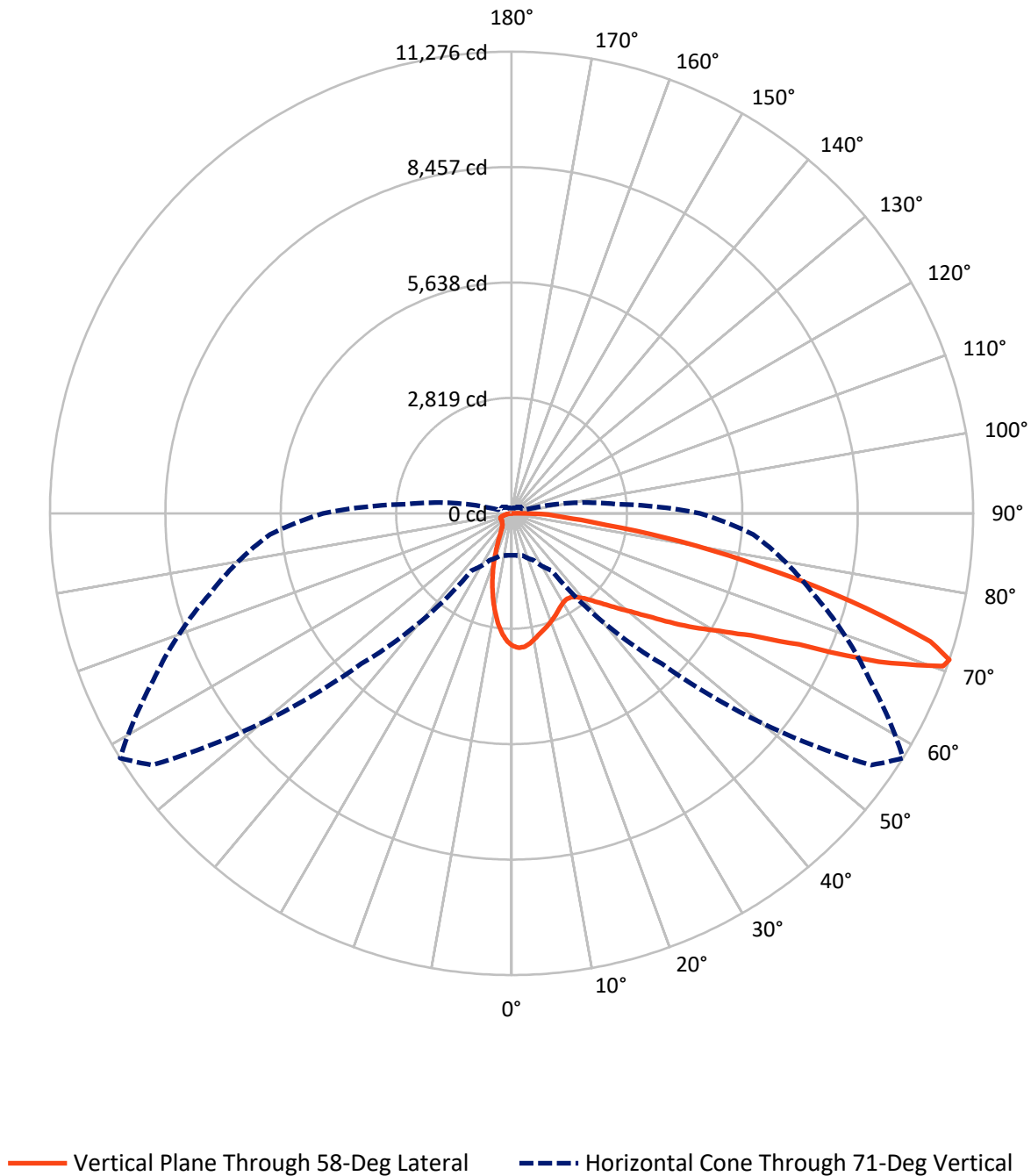
✕ Max cd
 - - - 1/2 Max cd



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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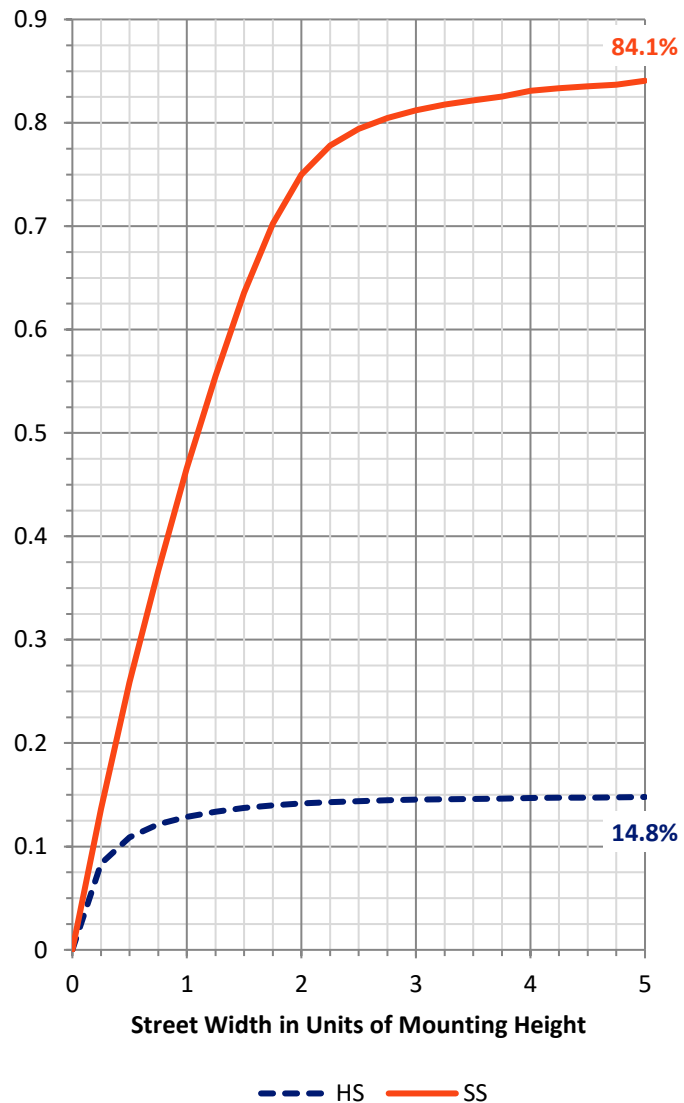
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1744.9	0.0	1744.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9926.1	0.0	9926.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	11671.0	0.0	11671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	2.4
10°-20°	620.3	5.3
20°-30°	788.4	6.8
30°-40°	1004.2	8.6
40°-50°	1424.0	12.2
50°-60°	2203.7	18.9
60°-70°	3000.1	25.7
70°-80°	2001.4	17.1
80°-90°	349.9	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°	11671.0	100.0
0°-180°	11671.0	100.0

Coefficient of Utilization



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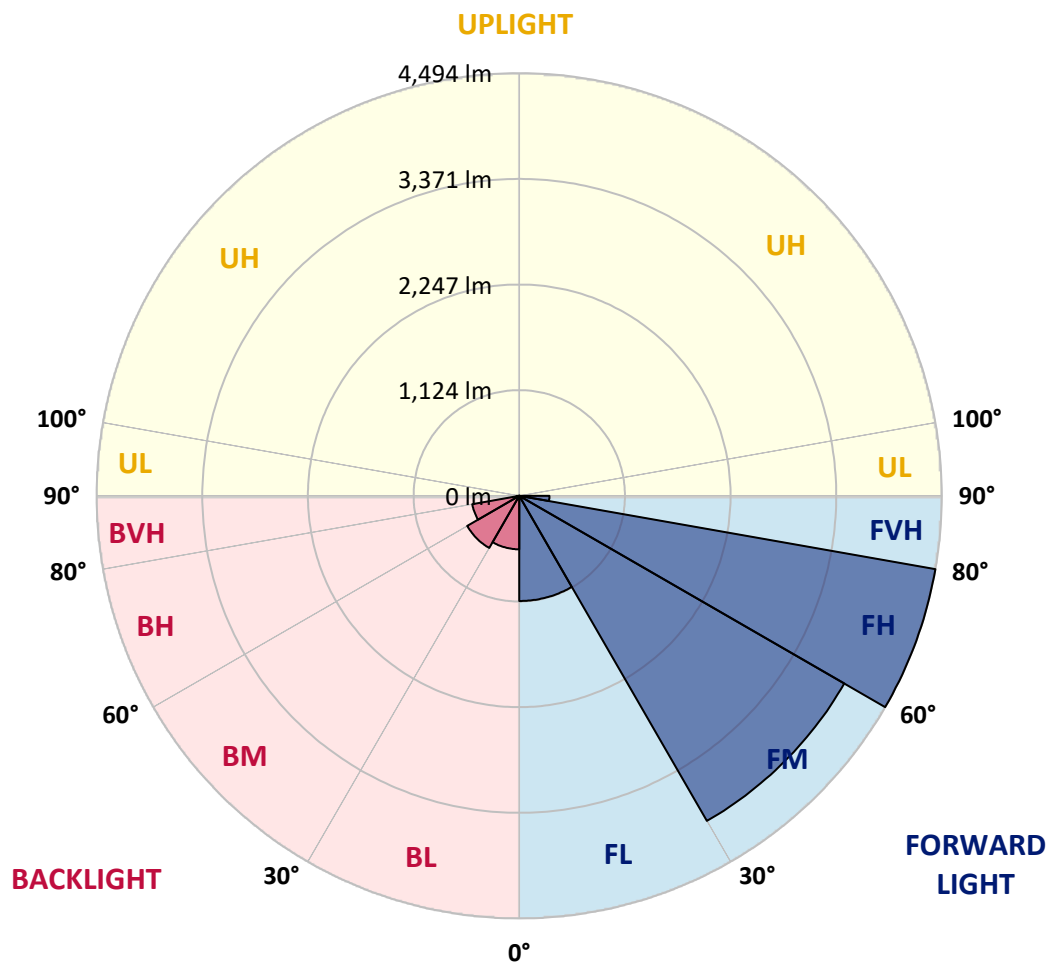
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1118.9	9.6			
FM	(30°-60°)	3992.0	34.2			
FH	(60°-80°)	4494.4	38.5			G2/5000
FVH	(80°-90°)	320.8	2.7			G3/500
BL	(0°-30°)	568.8	4.9	B2/1000		
BM	(30°-60°)	639.9	5.5	B1/1000		
BH	(60°-80°)	507.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	29.1	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°	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6
2.5°	3319.4	3315.0	3316.6	3313.3	3305.6	3297.9	3286.5	3288.5	3272.7	3249.1	3219.8
5°	3256.8	3255.2	3267.4	3274.3	3280.0	3275.5	3272.3	3276.3	3253.2	3220.6	3169.8
7.5°	3125.5	3107.6	3123.1	3146.2	3168.2	3184.9	3206.8	3209.7	3195.0	3160.9	3094.2
10°	2938.9	2921.8	2944.6	2980.8	3024.7	3064.5	3108.8	3117.0	3119.8	3088.9	3008.0
12.5°	2745.4	2732.4	2755.1	2806.0	2878.7	2940.1	3010.9	3023.1	3048.3	3027.5	2928.3
15°	2572.2	2567.3	2595.0	2645.0	2728.7	2822.6	2924.7	2947.0	2989.7	2982.8	2866.1
17.5°	2422.6	2421.4	2442.5	2495.0	2587.6	2706.4	2838.9	2876.7	2940.1	2948.3	2814.9
20°	2311.2	2308.8	2323.4	2362.0	2457.6	2592.1	2746.2	2798.2	2889.7	2918.2	2762.1
22.5°	2251.4	2251.0	2251.4	2269.7	2347.8	2473.0	2655.9	2719.4	2840.5	2894.2	2703.5
25°	2241.3	2240.1	2231.1	2229.1	2273.4	2373.4	2566.5	2636.4	2793.8	2877.5	2647.8
27.5°	2267.7	2269.3	2257.5	2238.4	2247.4	2307.9	2488.9	2563.7	2756.4	2874.3	2609.2
30°	2322.6	2321.8	2311.6	2291.7	2274.2	2283.6	2433.6	2508.4	2731.2	2888.5	2582.8
32.5°	2383.2	2387.6	2385.6	2374.6	2348.6	2311.2	2416.9	2490.1	2723.8	2922.6	2571.4
35°	2455.9	2460.8	2475.4	2484.0	2453.5	2393.3	2452.7	2516.1	2745.0	2986.9	2589.7
37.5°	2525.0	2537.6	2578.7	2614.9	2588.9	2521.8	2547.8	2592.9	2810.4	3088.1	2638.9
40°	2604.7	2615.7	2682.8	2759.6	2755.6	2686.0	2701.1	2731.2	2925.9	3233.2	2727.9
42.5°	2683.2	2705.1	2802.3	2911.3	2942.6	2881.2	2905.2	2921.0	3088.5	3425.5	2883.2
45°	2787.7	2811.2	2946.2	3077.5	3150.7	3116.2	3154.4	3160.5	3293.0	3687.3	3108.8
47.5°	2945.8	2972.6	3130.0	3267.8	3379.6	3383.3	3446.3	3443.8	3548.3	3987.0	3393.0
50°	3192.2	3230.8	3359.7	3488.5	3624.3	3700.0	3784.1	3772.3	3854.4	4306.1	3720.3
52.5°	3515.0	3532.9	3628.4	3723.5	3892.2	4061.8	4182.5	4171.9	4201.6	4634.2	4091.9
55°	3849.6	3863.0	3902.4	3954.4	4181.3	4457.7	4713.1	4696.4	4621.2	4974.9	4459.0
57.5°	4150.4	4177.6	4204.9	4226.4	4472.4	4871.6	5255.8	5257.0	5076.5	5342.4	4838.3
60°	4197.2	4221.1	4401.2	4571.2	4970.4	5423.7	5836.7	5824.5	5547.7	5741.2	5261.1
62.5°	3710.1	3764.2	4065.0	4517.1	5450.1	6433.6	6577.9	6562.8	6111.2	6232.7	5753.4
65°	2658.8	2720.2	3083.2	3762.6	5217.6	7546.3	7915.4	7712.9	6879.5	6837.2	6329.9
67.5°	1533.9	1548.5	1705.9	2251.4	3972.7	7604.4	9955.8	9672.5	8072.7	7523.1	6612.0
70°	1134.3	1133.8	1171.3	1385.5	2149.8	6206.3	10926.3	11180.4	9329.0	7748.7	6213.2
71°	1025.7	1026.9	1068.8	1261.1	1702.6	5194.8	10720.1	11276.3	9659.9	7637.3	5924.6
72.5°	877.3	881.4	939.5	1131.0	1432.3	3582.5	9832.3	10700.6	9816.8	7362.5	5472.9
75°	665.5	674.9	755.4	953.3	1309.1	1816.8	7216.1	8544.7	8720.8	6496.6	4066.7
77.5°	474.8	485.4	576.5	801.7	1244.4	1369.2	4832.6	6232.7	6417.7	4163.4	1834.3
80°	300.0	312.6	381.3	637.9	1169.2	1300.1	3036.9	4189.4	3499.5	1332.2	466.7
82.5°	176.0	185.8	236.6	416.7	955.0	1252.2	1786.8	2322.2	1361.9	402.5	212.2
85°	102.0	106.5	147.6	265.5	693.6	1181.8	1312.7	1298.1	591.1	196.8	100.4
87.5°	47.6	52.9	87.4	138.6	385.0	856.6	1037.5	896.4	367.5	92.3	47.2
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°	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6	3233.6
2.5°	3205.6	3198.7	3169.8	3144.2	3117.4	3082.4	3043.8	3038.9	3015.3	3019.8	3011.7
5°	3142.2	3124.7	3055.2	2992.2	2917.8	2851.1	2778.7	2745.4	2697.4	2694.2	2682.0
7.5°	3051.5	3019.0	2911.3	2791.7	2672.2	2558.4	2445.8	2371.8	2296.2	2264.0	2261.2
10°	2949.5	2894.2	2735.6	2558.8	2386.4	2220.1	2059.1	1940.0	1832.7	1781.9	1779.8
12.5°	2852.7	2771.0	2553.5	2312.8	2077.0	1861.6	1640.8	1484.3	1349.7	1304.6	1285.5
15°	2770.6	2655.5	2376.2	2068.5	1782.3	1483.1	1231.8	1067.2	942.8	899.7	891.5
17.5°	2690.9	2542.9	2194.5	1821.7	1475.8	1146.9	895.2	772.8	706.6	689.1	688.7
20°	2611.6	2427.1	2004.7	1569.3	1179.4	857.8	688.3	633.4	611.0	609.0	605.7
22.5°	2521.8	2304.3	1805.1	1316.0	920.4	674.5	585.0	563.1	560.2	567.5	567.5
25°	2437.6	2182.3	1602.6	1068.0	715.9	562.7	522.4	517.9	525.7	538.7	539.9
27.5°	2359.2	2064.8	1405.0	847.6	573.6	495.6	478.9	484.2	498.0	513.1	513.5
30°	2294.5	1953.8	1213.1	668.0	484.6	445.6	442.7	453.3	468.3	480.1	483.0
32.5°	2244.5	1859.1	1027.7	537.0	426.5	408.2	410.6	419.6	428.9	435.4	439.9
35°	2221.4	1777.8	856.6	452.9	389.5	379.3	382.6	387.4	391.5	396.4	400.0
37.5°	2225.4	1714.8	703.7	400.4	364.7	359.4	359.4	359.4	359.4	361.8	362.2
40°	2263.2	1678.6	579.3	367.1	348.0	342.3	337.8	333.8	330.5	332.1	331.3
42.5°	2360.0	1675.4	488.3	346.0	334.6	325.2	316.3	310.6	306.5	308.2	309.0
45°	2524.2	1716.0	426.9	330.9	322.0	307.8	296.4	290.3	287.4	292.7	293.5
47.5°	2736.9	1804.6	389.5	319.9	310.2	291.5	279.3	273.6	274.4	282.1	284.2
50°	3010.9	1948.6	371.6	313.0	302.1	277.7	265.1	260.2	262.6	273.6	276.0
52.5°	3311.7	2155.9	373.6	311.0	296.8	267.5	254.1	248.4	252.5	262.6	264.7
55°	3658.9	2405.1	407.4	313.9	289.1	261.0	245.1	235.4	238.6	248.0	249.6
57.5°	4044.7	2690.5	475.2	313.0	279.3	254.9	235.8	221.2	223.6	229.3	230.9
60°	4446.4	3035.3	580.5	315.5	274.8	247.6	223.2	204.9	204.1	209.0	209.8
62.5°	4928.5	3434.1	700.9	317.1	277.7	238.2	206.5	188.6	186.2	187.4	188.2
65°	5425.3	3722.7	655.8	310.6	286.6	230.5	191.9	172.8	168.3	167.5	167.9
67.5°	5440.8	3413.3	459.8	297.6	290.3	226.4	180.9	159.4	152.0	149.2	148.8
70°	4879.3	2773.0	358.2	283.8	275.6	219.9	170.7	148.4	137.4	132.9	132.5
71°	4605.3	2552.7	339.5	276.9	264.7	213.4	166.3	143.5	132.1	127.2	126.4
72.5°	4175.6	2288.4	316.7	265.9	243.5	196.8	157.7	136.6	124.8	119.1	117.9
75°	2996.6	1496.5	272.0	237.0	201.6	156.9	138.2	122.8	112.6	105.7	104.9
77.5°	1154.6	595.6	205.7	197.2	154.5	122.8	113.8	106.1	98.8	91.9	91.5
80°	356.9	266.3	150.0	148.4	111.8	91.5	88.6	86.6	83.7	76.4	74.8
82.5°	190.7	152.9	103.3	95.9	73.2	61.0	64.2	65.0	65.5	57.7	56.9
85°	91.1	80.9	58.1	54.5	42.7	34.1	39.4	42.7	43.1	35.4	32.9
87.5°	43.5	42.3	27.2	20.7	15.9	11.4	13.8	17.1	18.7	13.4	11.8
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)