

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: P319468

Luminaire Tested: **GAN-SA4A-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319468
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-SA4A-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA 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: 13538 lumens
Efficiency: N/A
Efficacy: 104.9 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): 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

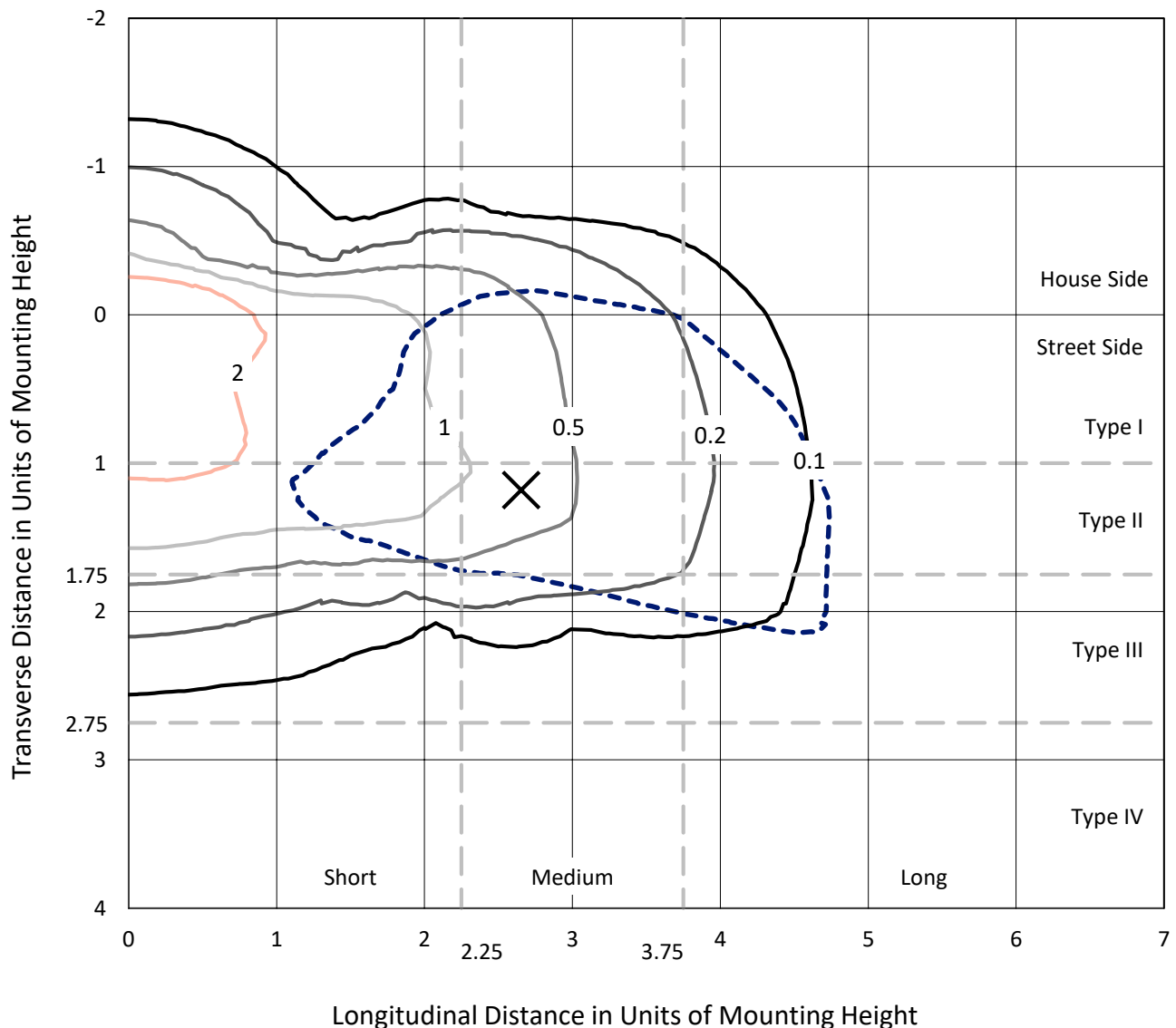


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Iso-Footcandle Lines of Horizontal Illumination

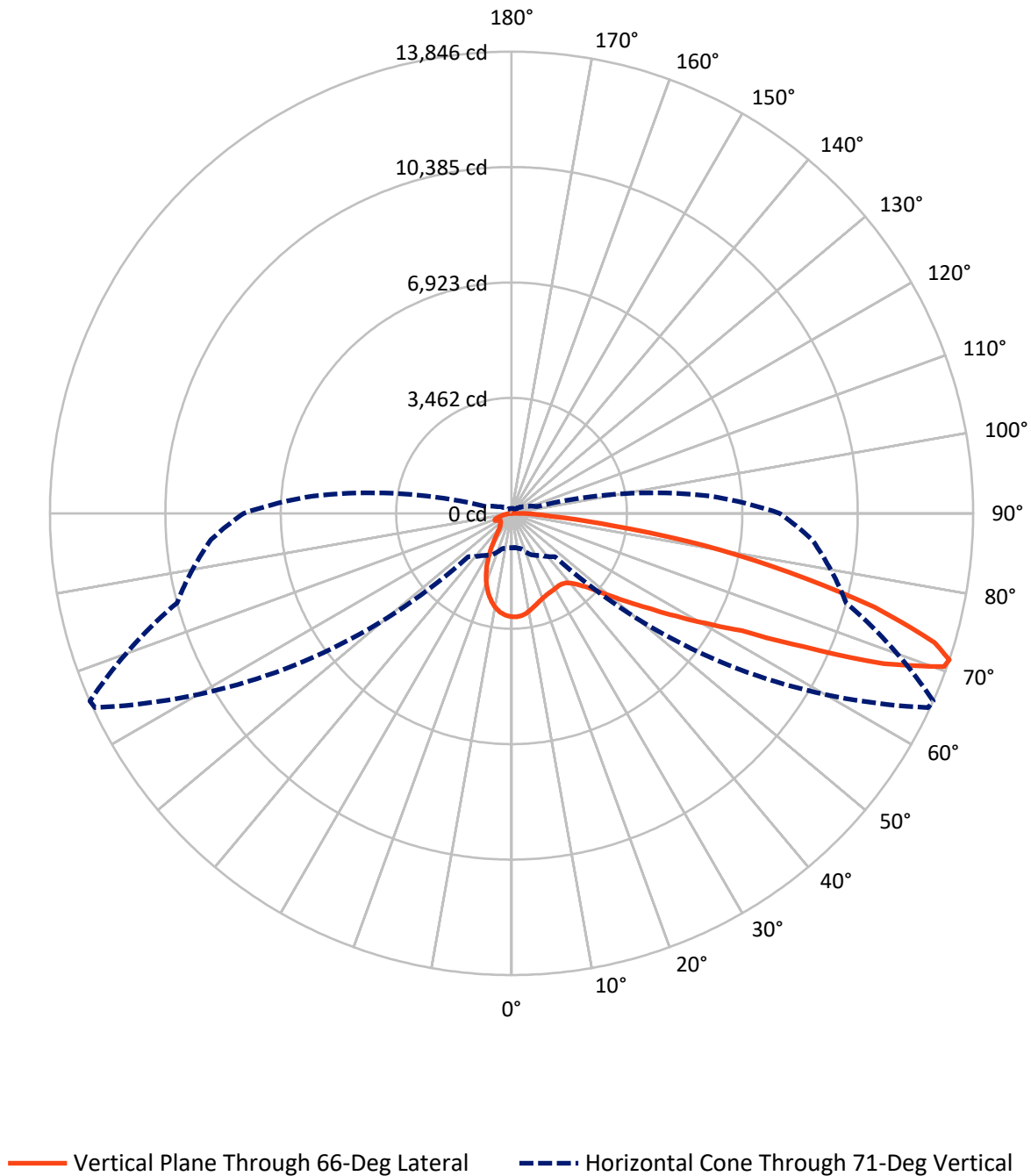
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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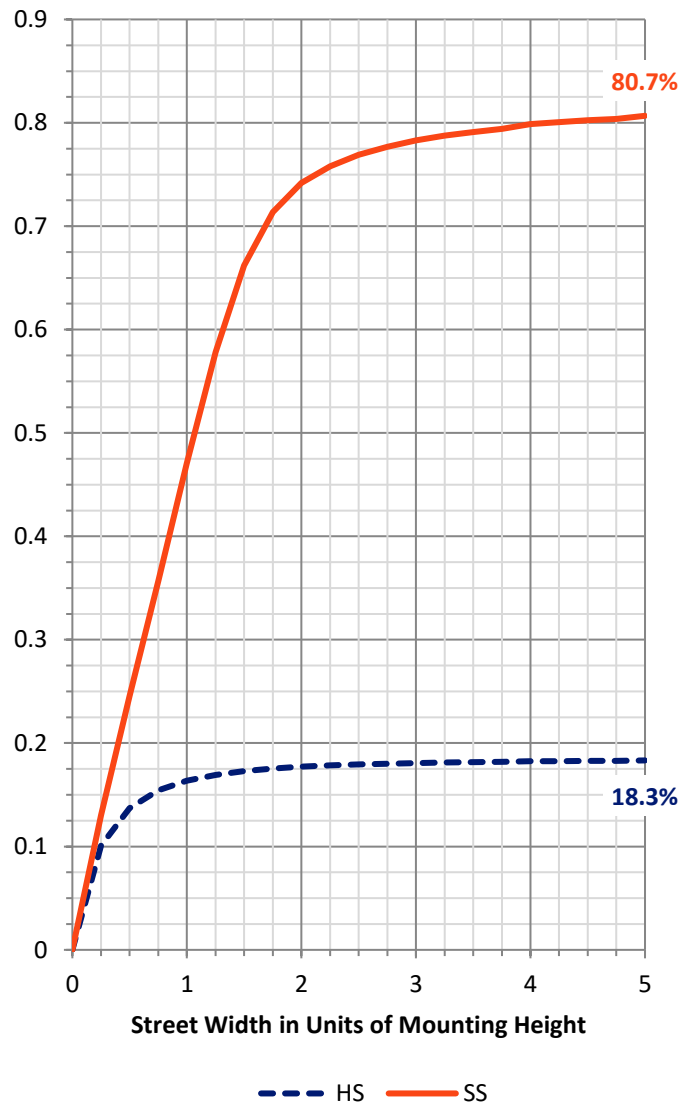
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2509.0	0.0	2509.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	11029.0	0.0	11029.0
	% Fixture	81.5	0.0	81.5
Total	Lumens	13538.0	0.0	13538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	2.0
10°-20°	654.7	4.8
20°-30°	879.5	6.5
30°-40°	1156.9	8.5
40°-50°	1683.1	12.4
50°-60°	2629.1	19.4
60°-70°	3293.4	24.3
70°-80°	2512.1	18.6
80°-90°	456.2	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°	13538.0	100.0
0°-180°	13538.0	100.0

Coefficient of Utilization



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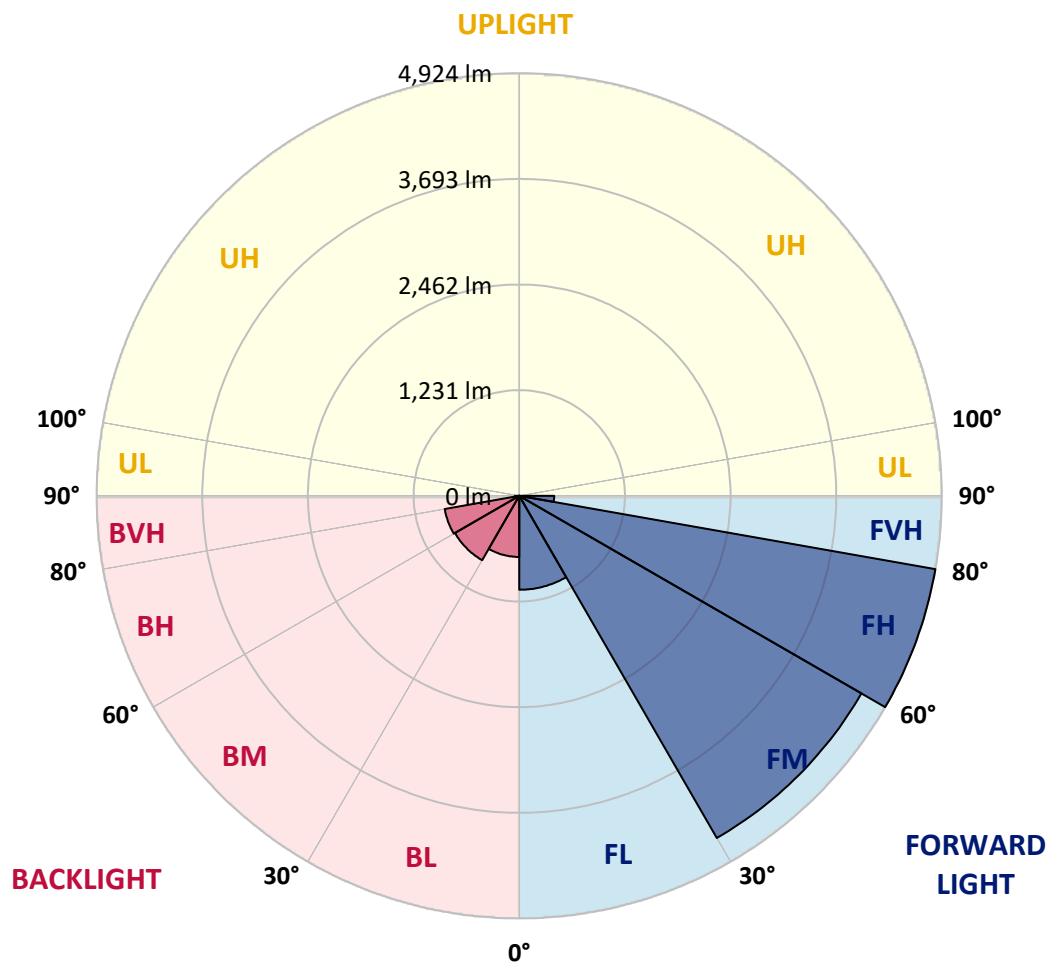
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1094.7	8.1			
FM	(30°-60°)	4603.6	34.0			
FH	(60°-80°)	4923.9	36.4			G2/5000
FVH	(80°-90°)	406.8	3.0			G3/500
BL	(0°-30°)	712.5	5.3	B2/1000		
BM	(30°-60°)	865.5	6.4	B1/1000		
BH	(60°-80°)	881.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	49.4	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°	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3
2.5°	3043.8	3039.1	3053.2	3067.6	3073.2	3082.6	3096.6	3104.6	3104.1	3105.5	3100.8
5°	2841.9	2835.8	2863.8	2886.8	2930.7	2980.2	3040.5	3083.5	3084.5	3108.8	3115.3
7.5°	2650.7	2646.5	2678.8	2715.7	2766.6	2842.3	2940.0	3032.6	3038.2	3104.1	3127.0
10°	2497.4	2496.5	2527.8	2568.0	2627.3	2711.9	2824.1	2959.7	2968.1	3081.7	3128.9
12.5°	2377.7	2379.6	2406.7	2452.5	2515.2	2603.5	2725.0	2877.9	2891.4	3046.1	3118.1
15°	2289.4	2296.9	2318.8	2365.1	2426.8	2516.6	2641.4	2802.1	2822.7	3006.4	3112.0
17.5°	2238.9	2247.3	2262.8	2301.1	2359.0	2445.5	2563.8	2740.0	2758.7	2976.0	3112.5
20°	2224.0	2231.0	2239.8	2263.2	2312.3	2390.8	2502.5	2683.9	2704.0	2951.7	3117.2
22.5°	2253.4	2258.5	2259.5	2257.6	2287.5	2351.6	2458.1	2642.8	2664.3	2935.8	3120.5
25°	2316.5	2323.5	2318.4	2301.1	2291.3	2330.5	2435.2	2615.7	2637.2	2924.1	3113.9
27.5°	2411.4	2412.3	2408.1	2385.7	2339.4	2332.9	2428.2	2599.8	2620.3	2910.6	3100.4
30°	2540.4	2546.5	2539.0	2508.6	2432.9	2370.3	2436.6	2584.3	2603.0	2893.3	3078.4
32.5°	2691.4	2706.3	2705.9	2674.1	2565.6	2453.9	2471.2	2575.0	2589.5	2875.1	3051.7
35°	2848.0	2868.5	2906.8	2893.3	2759.1	2586.2	2537.6	2589.9	2599.8	2872.7	3033.1
37.5°	3010.6	3031.2	3110.2	3146.6	2989.6	2775.5	2642.3	2642.8	2647.4	2901.2	3031.6
40°	3180.8	3202.7	3321.4	3416.3	3288.3	3015.3	2811.0	2753.1	2747.9	2971.4	3059.2
42.5°	3419.1	3438.8	3581.3	3702.4	3619.7	3322.4	3044.3	2923.2	2912.5	3108.8	3147.6
45°	3720.6	3737.4	3888.9	4018.4	3975.8	3672.9	3337.3	3157.4	3155.5	3337.8	3326.6
47.5°	4079.1	4092.2	4228.2	4353.5	4368.9	4076.3	3705.7	3518.7	3488.3	3651.9	3603.8
50°	4452.6	4467.1	4559.6	4694.2	4808.8	4616.2	4179.6	3961.3	3920.7	4066.5	3996.4
52.5°	4699.9	4719.0	4799.4	4970.0	5303.3	5207.9	4740.0	4497.9	4436.2	4569.0	4515.2
55°	4589.5	4632.5	4755.5	5028.9	5698.7	6111.9	5431.4	5123.8	5054.2	5164.5	5132.7
57.5°	4088.0	4146.9	4314.7	4736.8	5754.3	6908.4	6476.5	5860.9	5811.8	5780.0	5794.5
60°	3171.4	3228.0	3436.0	3986.1	5366.9	7489.8	8049.3	6769.6	6698.5	6398.0	6411.1
62.5°	2244.5	2216.0	2358.6	2761.0	4361.0	7558.1	9839.1	7984.8	7751.1	7050.5	6993.0
65°	1711.7	1705.1	1769.2	1897.2	2641.4	6741.5	10905.2	10027.4	9662.4	7818.0	7682.4
67.5°	1406.4	1394.8	1457.9	1644.4	1700.9	4349.3	10928.6	12397.2	12038.7	8773.4	8479.8
70°	1156.4	1143.3	1202.2	1442.9	1571.9	2205.7	9197.8	13785.0	13765.8	9983.0	9081.9
71°	1036.7	1027.4	1098.0	1365.3	1544.3	1838.3	7941.4	13788.7	13846.2	10392.5	9046.3
72.5°	844.2	847.4	922.2	1215.3	1523.8	1623.3	5836.6	13146.0	13267.6	10782.8	8723.4
75°	560.9	563.7	661.9	934.8	1477.5	1588.3	3207.9	11031.0	11254.4	10549.1	7960.1
77.5°	376.7	375.8	442.6	641.3	1287.3	1588.3	1880.9	8250.3	8495.7	8393.8	6136.7
80°	259.4	257.5	304.8	442.6	974.6	1607.4	1454.1	5781.9	5856.2	4533.0	2494.1
82.5°	158.9	160.3	199.1	312.7	663.3	1446.6	1372.8	3152.7	3071.8	1271.4	623.1
85°	91.1	90.7	127.1	211.7	425.8	1220.9	1338.7	1356.9	1244.7	382.8	225.3
87.5°	32.7	35.1	68.2	117.3	244.0	850.2	1135.8	705.8	636.2	172.9	101.9
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°	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3
2.5°	3097.6	3100.4	3097.1	3078.4	3062.5	3036.8	3022.3	3002.2	2996.1	2993.3	3000.8
5°	3109.2	3110.2	3082.6	3033.5	2978.4	2913.4	2866.7	2809.2	2782.0	2770.4	2777.8
7.5°	3120.0	3115.8	3055.5	2961.5	2859.6	2746.5	2646.0	2554.0	2500.2	2478.2	2480.1
10°	3121.4	3103.6	3006.9	2861.5	2703.5	2537.6	2383.3	2241.3	2151.5	2093.1	2110.8
12.5°	3106.9	3077.0	2935.4	2732.0	2512.8	2286.6	2078.1	1865.0	1736.9	1677.5	1679.4
15°	3095.7	3041.5	2847.5	2579.7	2285.2	1985.6	1700.9	1450.4	1313.9	1253.1	1224.6
17.5°	3086.3	3003.1	2745.6	2408.1	2016.4	1636.4	1294.3	1070.8	996.1	978.3	970.8
20°	3073.2	2962.5	2632.0	2209.5	1710.3	1245.7	945.1	834.8	835.3	855.8	858.6
22.5°	3055.0	2916.2	2510.9	1986.5	1381.7	907.3	740.9	709.1	741.3	780.6	787.6
25°	3027.9	2861.5	2376.3	1740.2	1053.6	697.4	632.9	631.5	670.7	711.9	717.9
27.5°	2989.6	2790.0	2226.8	1475.6	776.4	592.7	567.0	576.8	605.8	635.7	638.0
30°	2938.2	2706.8	2061.8	1196.6	608.6	527.7	524.9	533.8	551.5	572.6	574.5
32.5°	2881.6	2622.2	1885.5	926.4	521.2	492.7	495.5	499.7	508.1	516.5	518.4
35°	2830.2	2535.7	1705.1	703.9	479.6	469.8	467.9	466.9	467.9	465.1	465.5
37.5°	2797.0	2464.2	1517.2	560.4	455.7	449.7	444.0	437.0	429.1	424.4	425.3
40°	2784.9	2410.9	1327.0	484.2	436.1	431.9	421.1	406.2	396.8	394.0	394.0
42.5°	2817.6	2383.3	1143.3	445.9	419.7	412.7	395.0	377.7	370.7	370.2	369.7
45°	2917.6	2394.6	968.5	424.9	404.8	391.2	367.9	353.4	348.7	349.6	349.2
47.5°	3097.1	2465.1	818.9	410.9	389.8	372.1	345.9	334.2	328.6	328.6	329.1
50°	3402.3	2630.1	699.7	399.2	377.2	354.3	330.0	315.5	308.0	307.6	307.6
52.5°	3846.8	2925.5	625.4	389.4	363.2	338.4	314.1	295.9	287.0	285.1	284.2
55°	4404.0	3349.0	604.8	382.8	344.5	321.1	294.9	276.7	266.9	262.7	262.2
57.5°	5027.0	3864.1	645.5	374.9	325.3	300.5	273.9	256.6	246.3	241.2	240.7
60°	5657.6	4426.4	811.4	363.6	309.4	278.1	252.4	236.5	226.2	220.6	219.7
62.5°	6289.1	5019.1	1150.3	362.7	298.2	256.6	230.4	216.9	207.1	201.0	199.6
65°	7001.4	5667.9	1535.5	387.5	294.5	237.0	208.0	197.2	188.8	183.2	182.8
67.5°	7819.4	6400.3	1498.5	438.4	307.1	219.2	187.0	178.6	172.5	167.8	167.3
70°	8203.1	6285.8	931.6	474.4	324.9	201.9	166.9	160.8	156.1	152.8	151.4
71°	8042.3	5968.4	781.0	470.2	323.0	194.4	158.9	154.2	149.6	146.8	145.4
72.5°	7603.9	5443.0	651.6	437.5	301.9	180.9	148.6	144.0	139.8	136.5	135.6
75°	6823.3	4861.1	521.6	349.6	240.7	152.8	130.4	125.3	122.0	120.1	118.3
77.5°	5015.8	3469.1	403.4	276.2	177.2	124.8	111.2	107.5	104.2	101.4	100.0
80°	1921.5	1343.8	271.6	206.1	129.9	98.6	89.7	87.9	84.6	82.7	82.7
82.5°	517.4	401.5	144.9	124.8	86.9	72.0	68.7	67.8	65.0	61.2	61.7
85°	209.4	177.2	81.3	68.7	53.3	42.5	46.3	46.7	43.5	38.8	39.3
87.5°	92.1	75.3	45.3	30.4	23.4	16.4	21.0	21.0	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)