

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: P319296

Luminaire Tested: **GAN-SA2D-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319296
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-SA2D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 13006 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

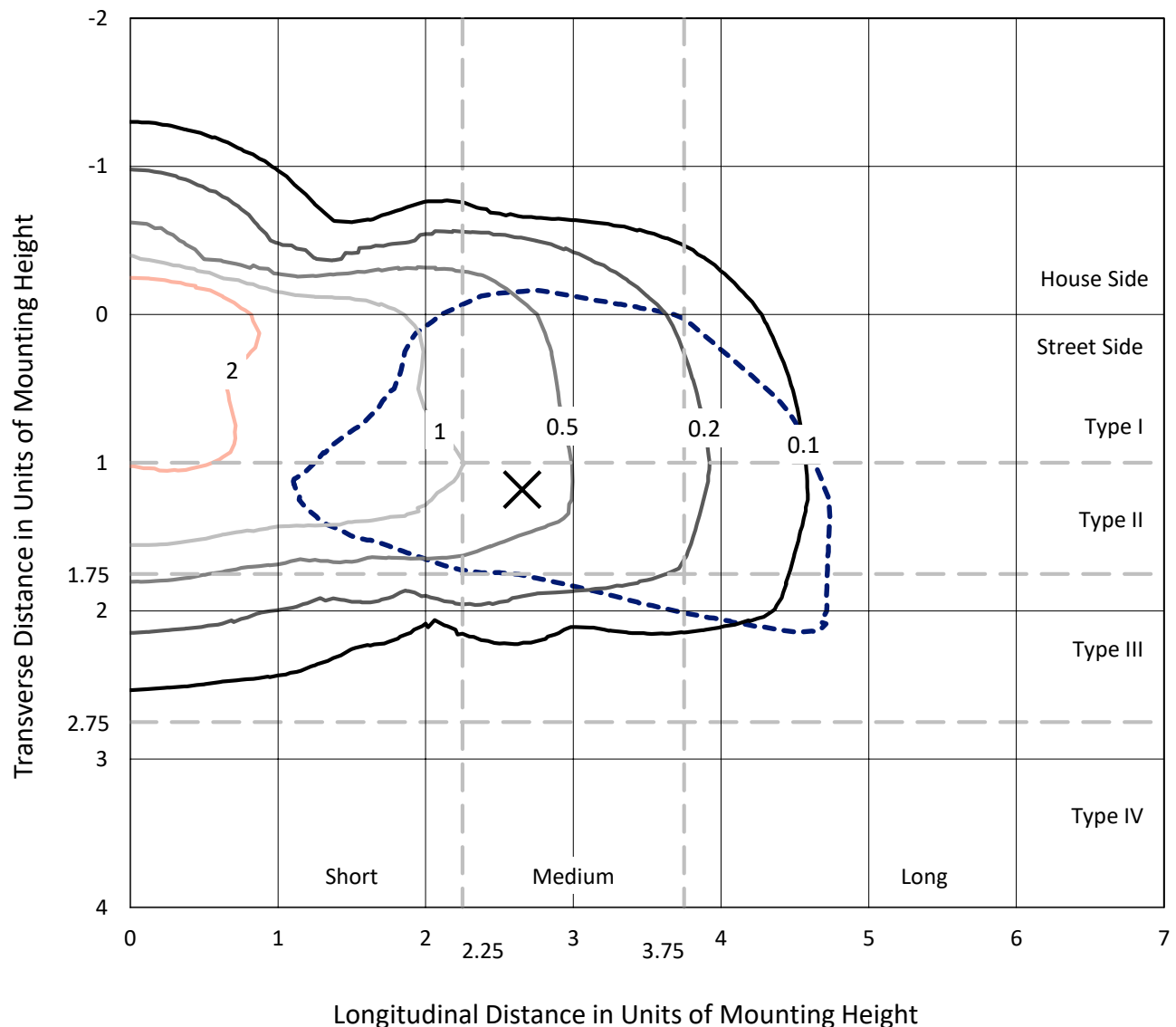
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

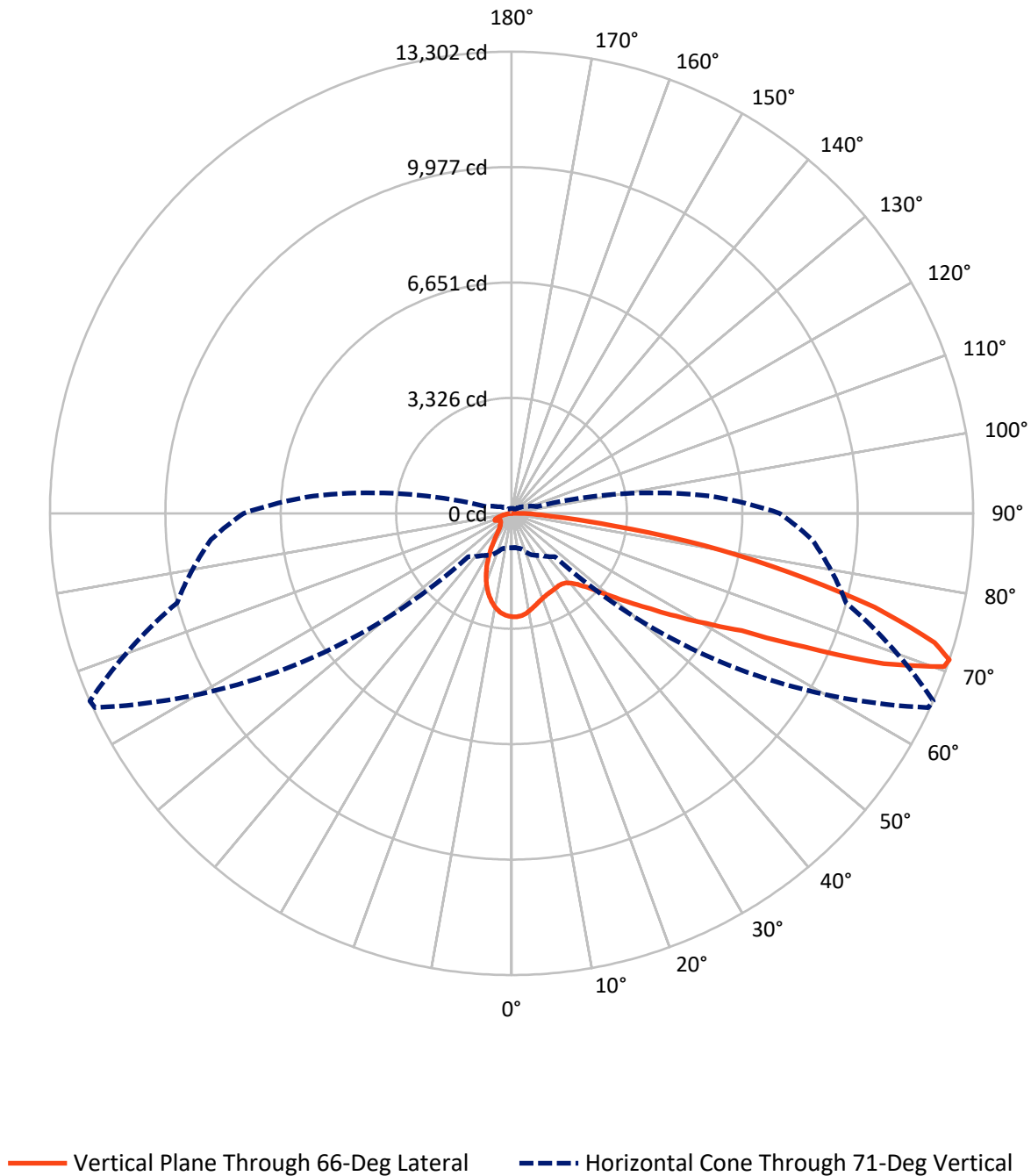
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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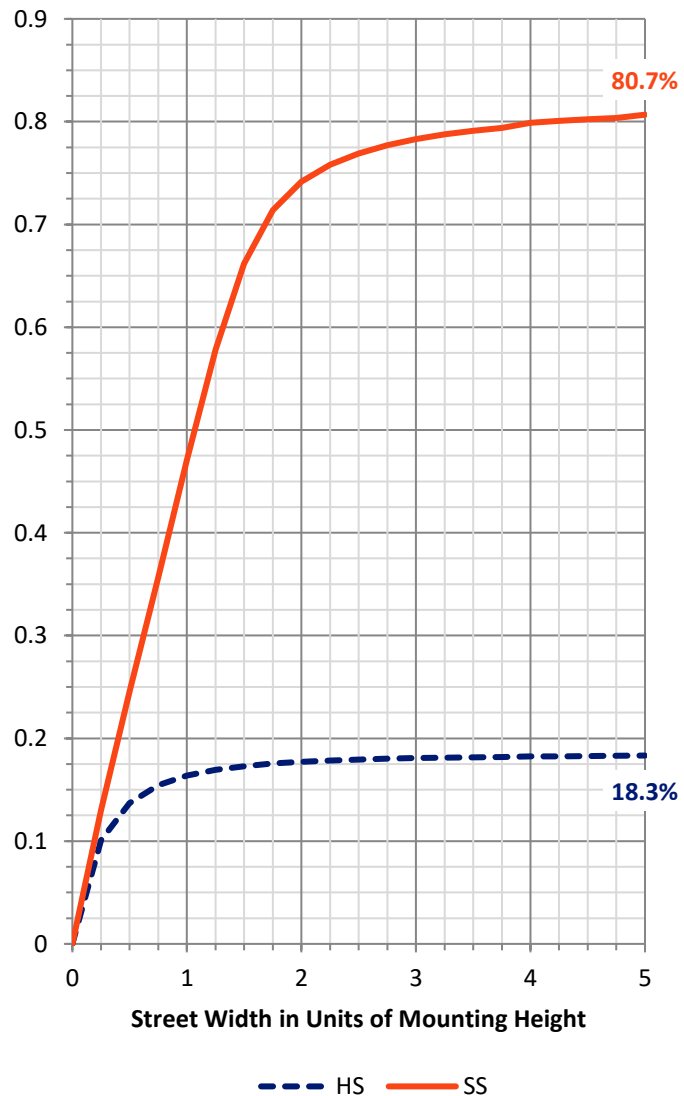
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2410.4	0.0	2410.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	10595.6	0.0	10595.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	13006.0	0.0	13006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.3	2.0
10°-20°	629.0	4.8
20°-30°	844.9	6.5
30°-40°	1111.5	8.5
40°-50°	1616.9	12.4
50°-60°	2525.8	19.4
60°-70°	3164.0	24.3
70°-80°	2413.4	18.6
80°-90°	438.2	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°	13006.0	100.0
0°-180°	13006.0	100.0

Coefficient of Utilization



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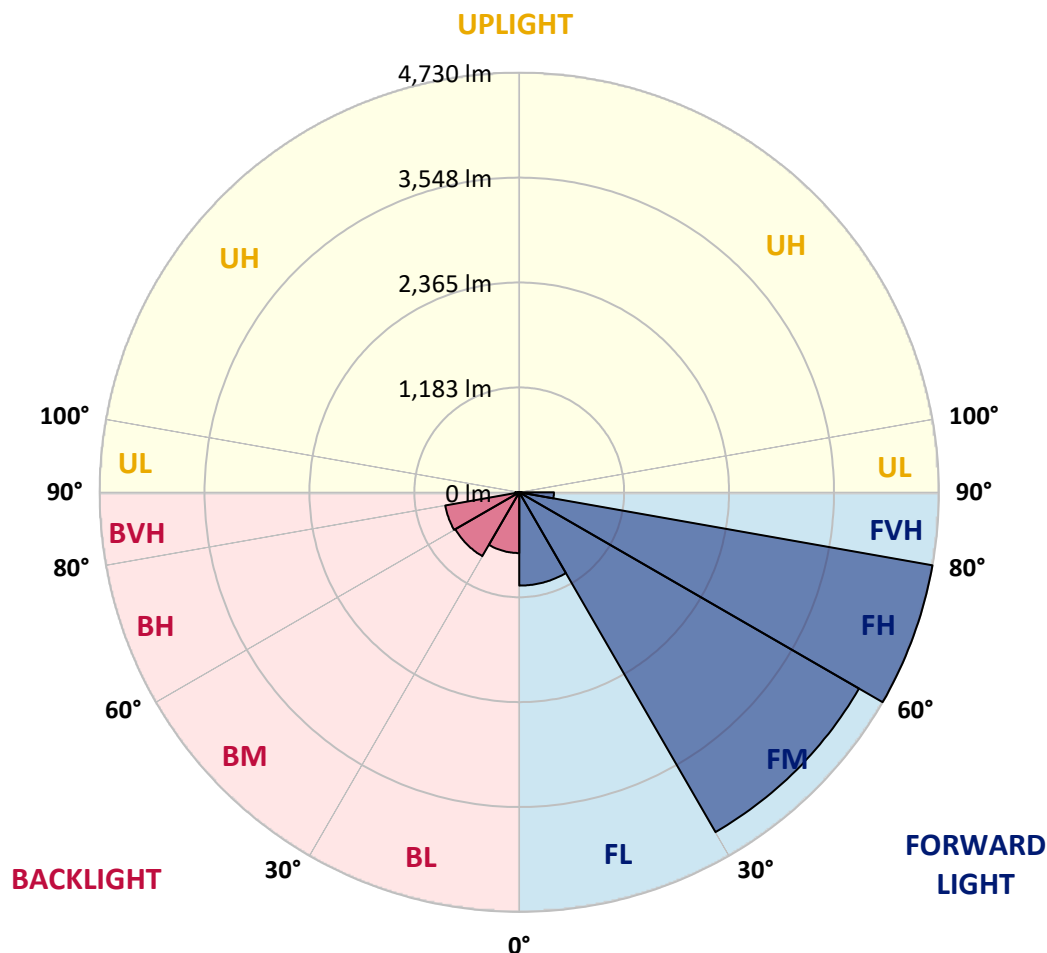
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1051.7	8.1			
FM	(30°-60°)	4422.7	34.0			
FH	(60°-80°)	4730.4	36.4			G2/5000
FVH	(80°-90°)	390.8	3.0			G3/500
BL	(0°-30°)	684.5	5.3	B2/1000		
BM	(30°-60°)	831.5	6.4	B1/1000		
BH	(60°-80°)	846.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	47.4	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°	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4
2.5°	2924.2	2919.7	2933.2	2947.1	2952.5	2961.5	2974.9	2982.6	2982.1	2983.5	2979.0
5°	2730.2	2724.4	2751.3	2773.3	2815.5	2863.1	2921.0	2962.4	2963.3	2986.6	2992.9
7.5°	2546.5	2542.5	2573.5	2609.0	2657.9	2730.7	2824.5	2913.4	2918.8	2982.1	3004.1
10°	2399.3	2398.4	2428.4	2467.1	2524.1	2605.4	2713.1	2843.4	2851.4	2960.6	3005.9
12.5°	2284.3	2286.1	2312.1	2356.1	2416.3	2501.2	2617.9	2764.8	2777.8	2926.4	2995.6
15°	2199.4	2206.6	2227.7	2272.2	2331.4	2417.7	2537.6	2692.0	2711.8	2888.3	2989.8
17.5°	2150.9	2159.0	2173.8	2210.7	2266.3	2349.4	2463.0	2632.3	2650.3	2859.1	2990.2
20°	2136.6	2143.3	2151.8	2174.3	2221.4	2296.9	2404.2	2578.4	2597.7	2835.7	2994.7
22.5°	2164.9	2169.8	2170.7	2168.9	2197.6	2259.2	2361.5	2538.9	2559.6	2820.5	2997.8
25°	2225.5	2232.2	2227.3	2210.7	2201.2	2238.9	2339.5	2512.9	2533.5	2809.2	2991.5
27.5°	2316.6	2317.5	2313.5	2291.9	2247.5	2241.2	2332.8	2497.6	2517.4	2796.2	2978.5
30°	2440.6	2446.4	2439.2	2410.0	2337.3	2277.1	2340.9	2482.8	2500.7	2779.6	2957.4
32.5°	2585.6	2600.0	2599.5	2569.0	2464.8	2357.5	2374.1	2473.8	2487.7	2762.1	2931.8
35°	2736.0	2755.8	2792.6	2779.6	2650.7	2484.6	2437.9	2488.2	2497.6	2759.8	2913.9
37.5°	2892.3	2912.1	2988.0	3023.0	2872.1	2666.4	2538.5	2538.9	2543.4	2787.2	2912.5
40°	3055.8	3076.9	3190.9	3282.1	3159.0	2896.8	2700.6	2644.9	2639.9	2854.6	2939.0
42.5°	3284.8	3303.6	3440.6	3556.9	3477.4	3191.8	2924.6	2808.3	2798.0	2986.6	3023.9
45°	3574.4	3590.6	3736.1	3860.5	3819.6	3528.6	3206.2	3033.3	3031.5	3206.6	3195.9
47.5°	3918.8	3931.4	4062.1	4182.4	4197.2	3916.1	3560.0	3380.4	3351.2	3508.4	3462.1
50°	4277.6	4291.5	4380.4	4509.8	4619.8	4434.8	4015.4	3805.7	3766.6	3906.7	3839.3
52.5°	4515.2	4533.6	4610.8	4774.7	5094.9	5003.3	4553.8	4321.2	4261.9	4389.4	4337.8
55°	4409.2	4450.5	4568.6	4831.3	5474.8	5871.7	5217.9	4922.4	4855.5	4961.5	4931.0
57.5°	3927.4	3983.9	4145.1	4550.6	5528.2	6636.9	6222.0	5630.6	5583.4	5552.9	5566.8
60°	3046.8	3101.1	3300.9	3829.5	5156.0	7195.5	7733.0	6503.5	6435.3	6146.5	6159.1
62.5°	2156.3	2128.9	2265.9	2652.5	4189.6	7261.1	9452.4	7671.1	7446.5	6773.4	6718.2
65°	1644.4	1638.1	1699.6	1822.7	2537.6	6476.6	10476.7	9633.4	9282.7	7510.7	7380.5
67.5°	1351.2	1340.0	1400.6	1579.7	1634.1	4178.4	10499.2	11910.1	11565.6	8428.6	8146.6
70°	1110.9	1098.4	1154.9	1386.2	1510.1	2119.0	8836.3	13243.3	13224.9	9590.7	8725.0
71°	996.0	987.0	1054.8	1311.7	1483.6	1766.1	7629.3	13246.9	13302.1	9984.1	8690.8
72.5°	811.0	814.1	886.0	1167.5	1463.9	1559.5	5607.2	12629.4	12746.2	10359.1	8380.6
75°	538.9	541.5	635.8	898.1	1419.4	1525.9	3081.8	10597.5	10812.1	10134.5	7647.3
77.5°	361.9	361.0	425.2	616.1	1236.7	1525.9	1807.0	7926.1	8161.9	8064.0	5895.5
80°	249.2	247.4	292.8	425.2	936.3	1544.3	1397.0	5554.7	5626.1	4354.9	2396.1
82.5°	152.7	154.0	191.3	300.4	637.2	1389.8	1318.8	3028.8	2951.1	1221.4	598.6
85°	87.6	87.1	122.1	203.4	409.1	1172.9	1286.1	1303.6	1195.8	367.8	216.4
87.5°	31.4	33.7	65.6	112.7	234.4	816.8	1091.2	678.1	611.2	166.1	97.9
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°	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4
2.5°	2975.8	2978.5	2975.4	2957.4	2942.2	2917.5	2903.5	2884.2	2878.4	2875.7	2882.9
5°	2987.1	2988.0	2961.5	2914.3	2861.3	2798.9	2754.0	2698.8	2672.7	2661.5	2668.7
7.5°	2997.4	2993.3	2935.4	2845.2	2747.3	2638.6	2542.1	2453.6	2401.9	2380.8	2382.6
10°	2998.7	2981.7	2888.7	2749.1	2597.3	2437.9	2289.7	2153.2	2067.0	2010.8	2027.9
12.5°	2984.8	2956.1	2820.0	2624.7	2414.1	2196.7	1996.5	1791.7	1668.7	1611.6	1613.4
15°	2974.0	2921.9	2735.6	2478.3	2195.4	1907.5	1634.1	1393.4	1262.3	1203.9	1176.5
17.5°	2965.1	2885.1	2637.7	2313.5	1937.2	1572.1	1243.4	1028.8	956.9	939.9	932.7
20°	2952.5	2846.1	2528.6	2122.6	1643.1	1196.7	908.0	802.0	802.4	822.2	824.9
22.5°	2935.0	2801.6	2412.3	1908.4	1327.4	871.6	711.7	681.2	712.2	749.9	756.6
25°	2908.9	2749.1	2283.0	1671.8	1012.2	670.0	608.0	606.7	644.4	683.9	689.7
27.5°	2872.1	2680.4	2139.3	1417.6	745.9	569.4	544.7	554.1	582.0	610.7	612.9
30°	2822.7	2600.4	1980.7	1149.6	584.7	507.0	504.3	512.8	529.9	550.1	551.9
32.5°	2768.4	2519.2	1811.5	890.0	500.7	473.3	476.0	480.0	488.1	496.2	498.0
35°	2719.0	2436.1	1638.1	676.3	460.7	451.3	449.5	448.6	449.5	446.8	447.3
37.5°	2687.1	2367.4	1457.6	538.4	437.8	432.0	426.6	419.9	412.2	407.7	408.6
40°	2675.4	2316.2	1274.8	465.2	419.0	414.9	404.6	390.2	381.2	378.5	378.5
42.5°	2706.9	2289.7	1098.4	428.4	403.2	396.5	379.4	362.8	356.1	355.6	355.2
45°	2802.9	2300.5	930.4	408.2	388.9	375.9	353.4	339.5	335.0	335.9	335.4
47.5°	2975.4	2368.3	786.7	394.7	374.5	357.4	332.3	321.1	315.7	315.7	316.1
50°	3268.6	2526.8	672.2	383.5	362.4	340.4	317.0	303.1	295.9	295.5	295.5
52.5°	3695.7	2810.6	600.8	374.1	348.9	325.1	301.8	284.2	275.7	273.9	273.0
55°	4230.9	3217.4	581.1	367.8	330.9	308.5	283.3	265.8	256.4	252.4	251.9
57.5°	4829.5	3712.3	620.1	360.1	312.5	288.7	263.1	246.5	236.6	231.7	231.3
60°	5435.3	4252.5	779.5	349.4	297.3	267.2	242.5	227.2	217.3	211.9	211.1
62.5°	6041.9	4821.9	1105.1	348.5	286.5	246.5	221.4	208.4	198.9	193.1	191.7
65°	6726.3	5445.1	1475.1	372.3	282.9	227.7	199.8	189.5	181.4	176.0	175.6
67.5°	7512.1	6148.8	1439.6	421.2	295.0	210.6	179.6	171.5	165.7	161.2	160.8
70°	7880.8	6038.8	894.9	455.8	312.1	194.0	160.3	154.5	150.0	146.8	145.5
71°	7726.3	5733.9	750.4	451.7	310.3	186.8	152.7	148.2	143.7	141.0	139.7
72.5°	7305.1	5229.1	626.0	420.3	290.1	173.8	142.8	138.3	134.3	131.1	130.2
75°	6555.2	4670.1	501.1	335.9	231.3	146.8	125.3	120.3	117.2	115.4	113.6
77.5°	4818.7	3332.8	387.5	265.4	170.2	119.9	106.9	103.3	100.1	97.4	96.1
80°	1846.0	1291.0	260.9	198.0	124.8	94.7	86.2	84.4	81.3	79.5	79.5
82.5°	497.1	385.7	139.2	119.9	83.5	69.2	66.0	65.1	62.4	58.8	59.3
85°	201.2	170.2	78.1	66.0	51.2	40.9	44.5	44.9	41.8	37.3	37.7
87.5°	88.5	72.3	43.6	29.2	22.5	15.7	20.2	20.2	18.4	15.3	13.9
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)