

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: P193601

Luminaire Tested: **GAN-AF-03-LED-U-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL2-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13474 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 191
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: 28.75 FT



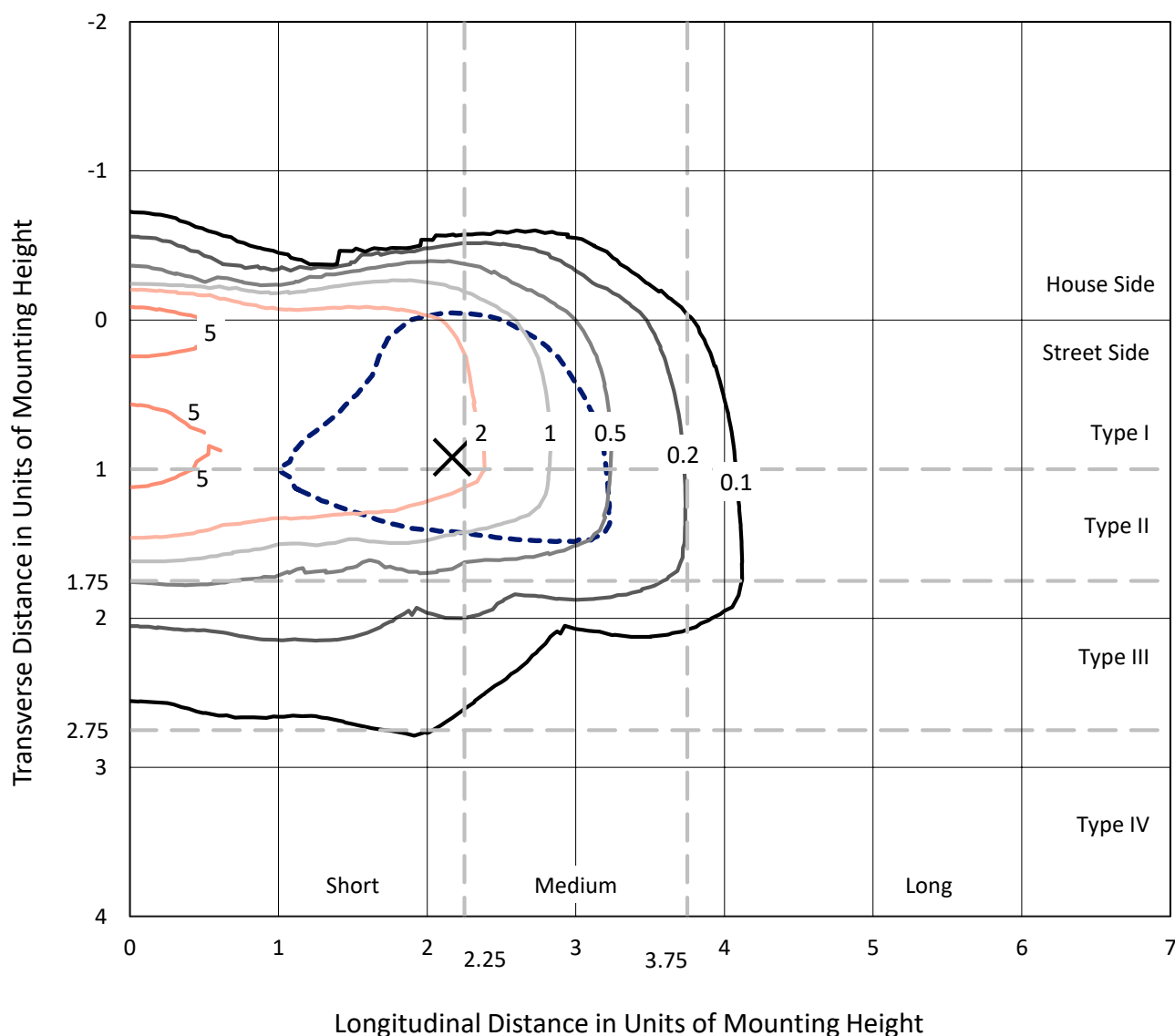
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

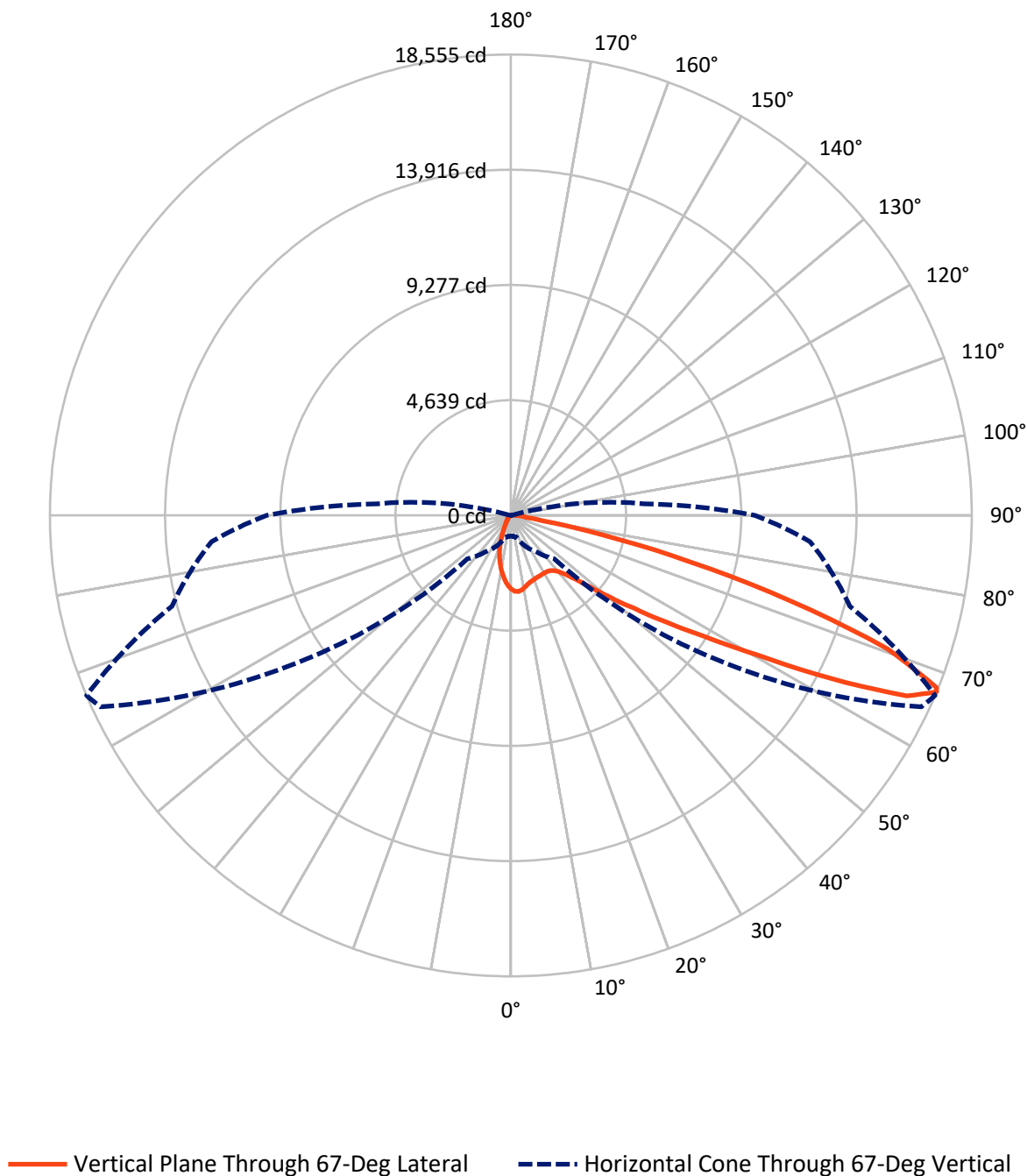


Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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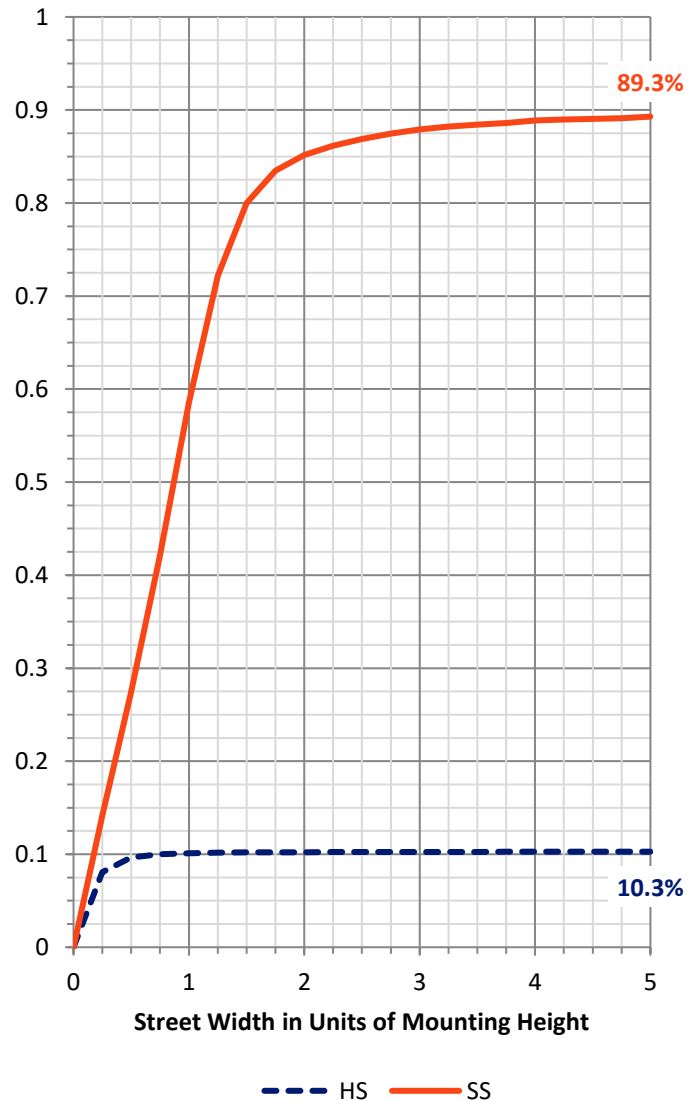
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1399.0	0.0	1399.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12075.0	0.0	12075.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	13474.0	0.0	13474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	1.8
10°-20°	514.6	3.8
20°-30°	748.2	5.6
30°-40°	1167.2	8.7
40°-50°	2067.7	15.3
50°-60°	3271.9	24.3
60°-70°	3747.5	27.8
70°-80°	1554.4	11.5
80°-90°	160.6	1.2
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°	13474.0	100.0
0°-180°	13474.0	100.0

Coefficient of Utilization



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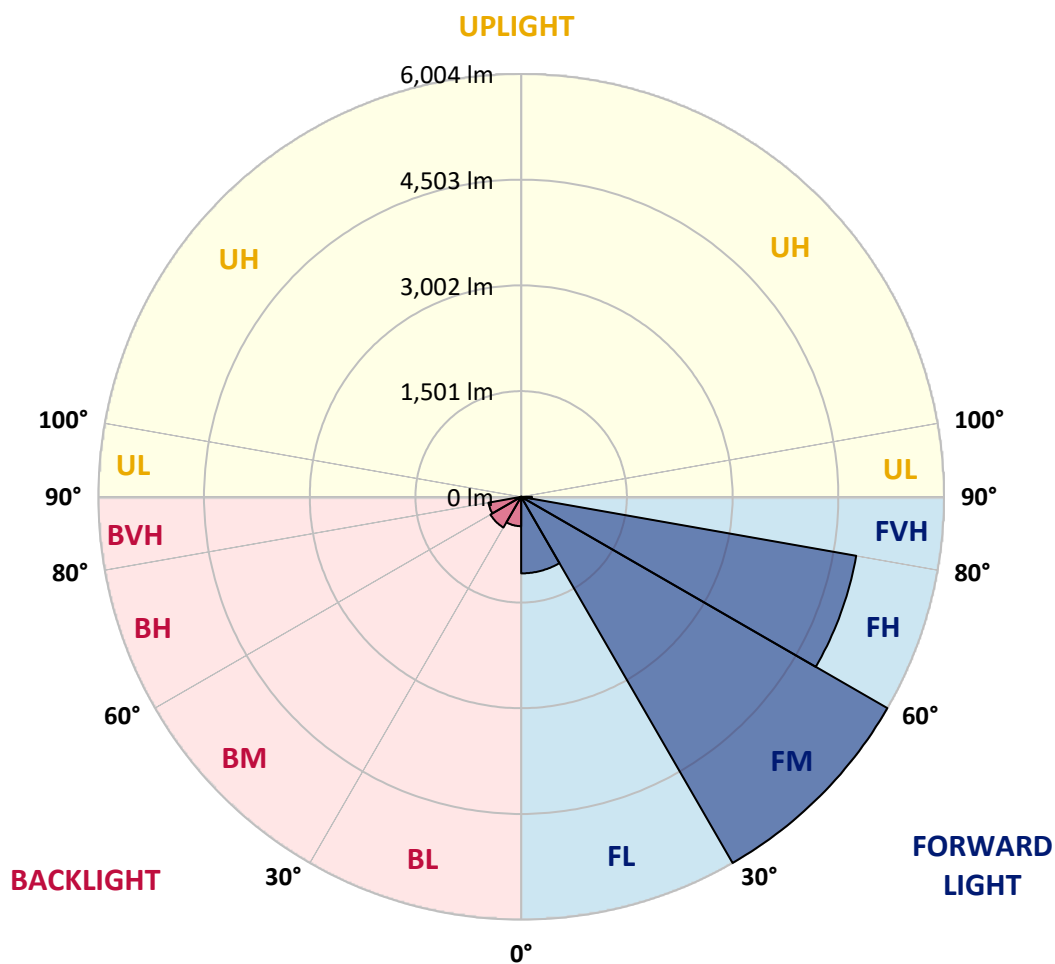
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1087.1	8.1			
FM	(30°-60°)	6004.0	44.6			
FH	(60°-80°)	4830.5	35.9			G2/5000
FVH	(80°-90°)	153.3	1.1			G2/225
BL	(0°-30°)	417.5	3.1	B1/500		
BM	(30°-60°)	502.8	3.7	B1/1000		
BH	(60°-80°)	471.5	3.5	B1/500		G1/500
BVH	(80°-90°)	7.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5
2.5°	3072.1	3078.4	3077.6	3082.3	3093.3	3094.1	3083.1	3061.9	3057.2	3029.7	2981.7
5°	2833.2	2851.3	2862.3	2907.1	2957.4	3017.9	3063.5	3080.0	3077.6	3058.0	2985.7
7.5°	2560.5	2578.6	2591.1	2643.8	2710.6	2814.3	2933.0	3030.5	3039.1	3060.3	2982.5
10°	2378.9	2382.1	2399.4	2449.7	2519.6	2625.7	2767.2	2937.7	2963.7	3041.5	2974.7
12.5°	2229.6	2232.0	2254.8	2309.0	2383.7	2490.5	2639.1	2836.3	2876.4	3017.9	2973.1
15°	2123.5	2132.2	2152.6	2209.2	2288.6	2394.7	2547.1	2761.7	2809.6	3009.2	2987.2
17.5°	2088.2	2097.6	2103.9	2144.7	2217.0	2320.8	2477.2	2713.0	2767.2	3014.0	3014.7
20°	2125.1	2132.2	2118.0	2128.2	2173.0	2265.8	2418.2	2671.3	2735.7	3019.5	3050.1
22.5°	2262.6	2265.8	2227.3	2182.5	2174.6	2225.7	2371.9	2638.3	2707.4	3034.4	3091.8
25°	2498.4	2492.9	2430.0	2333.4	2242.2	2218.6	2344.4	2617.9	2693.3	3050.1	3135.0
27.5°	2782.9	2790.8	2704.3	2563.6	2389.9	2265.8	2340.4	2609.2	2687.0	3061.1	3172.7
30°	3128.7	3139.7	3040.7	2863.8	2614.7	2382.1	2376.6	2607.6	2683.1	3054.0	3175.9
32.5°	3481.6	3494.9	3417.1	3234.8	2914.9	2577.0	2458.3	2624.9	2690.9	3029.7	3157.8
35°	3850.9	3869.8	3817.9	3661.5	3322.0	2858.3	2602.1	2677.6	2727.9	3027.3	3139.7
37.5°	4361.0	4378.3	4280.8	4115.0	3814.8	3235.6	2833.2	2776.6	2815.1	3065.0	3144.4
40°	5122.5	5120.2	4868.7	4614.8	4356.3	3715.0	3157.8	2955.8	2975.4	3179.0	3202.6
42.5°	5952.5	5948.5	5576.8	5190.9	4957.5	4305.2	3584.5	3265.4	3252.1	3388.8	3353.5
45°	6592.2	6591.4	6288.0	5853.4	5681.3	4982.7	4136.2	3696.1	3675.7	3729.9	3631.7
47.5°	6864.9	6869.6	6717.1	6411.4	6483.7	5899.0	4831.8	4320.1	4289.5	4267.5	4118.2
50°	6652.7	6662.1	6674.7	6615.0	7072.4	7130.5	5764.6	5199.6	5184.6	5086.4	4853.0
52.5°	5959.5	6007.5	6155.2	6344.6	7276.7	8312.5	7227.2	6292.0	6211.8	6107.3	5850.3
55°	4791.7	4844.3	5124.9	5584.7	6972.6	9089.0	9276.8	7700.3	7566.7	7254.7	6883.8
57.5°	3171.1	3252.9	3660.0	4244.7	6089.2	9214.0	11321.8	9654.9	9189.6	8335.3	7917.2
60°	1747.1	1825.7	2267.3	2797.0	4397.9	8596.3	12697.1	12199.6	11377.6	9543.3	9172.3
62.5°	1075.9	1118.3	1444.5	1937.3	2637.5	6784.7	12981.6	15397.5	14445.8	11098.6	10688.3
65°	856.6	874.7	1034.3	1583.6	1890.9	4035.6	12062.9	17835.4	17517.9	12981.6	12045.6
67°	831.5	838.6	914.0	1359.6	1782.4	2474.0	10106.0	18232.3	18554.5	14121.2	12088.0
67.5°	837.0	844.9	916.4	1297.5	1779.3	2273.6	9431.7	18075.9	18483.0	14211.6	11900.2
70°	807.1	831.5	1049.2	1296.7	1692.1	1889.3	5648.3	15661.6	16085.2	13204.8	10097.3
72.5°	286.1	287.6	453.5	1049.2	1839.8	1909.8	2836.3	11481.3	11794.9	10101.3	7279.9
75°	169.8	144.6	150.9	298.6	1758.1	1854.7	1636.3	7336.4	7453.5	5788.2	3686.7
77.5°	117.1	102.2	105.3	132.0	669.6	1828.8	1299.9	3825.8	3700.8	2030.0	785.1
80°	66.8	58.9	62.9	115.5	243.6	1706.2	1226.0	1551.4	1322.7	344.2	216.9
82.5°	35.4	29.9	36.2	95.1	169.8	1063.3	1228.4	749.8	594.1	116.3	147.8
85°	12.6	10.2	17.3	65.2	113.2	326.2	1138.8	630.3	495.1	56.6	112.4
87.5°	2.4	2.4	7.1	26.7	45.6	99.8	673.5	374.1	250.7	33.8	77.0
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°	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5	2971.5
2.5°	2962.1	2928.3	2882.7	2826.9	2760.9	2702.7	2659.5	2614.7	2605.3	2589.6	2587.2
5°	2942.4	2884.3	2771.1	2641.4	2503.1	2378.2	2276.8	2186.4	2146.3	2111.7	2107.8
7.5°	2913.4	2826.1	2633.6	2424.5	2208.4	2011.9	1845.3	1727.4	1619.0	1567.1	1559.2
10°	2879.6	2754.6	2478.8	2188.8	1890.1	1612.7	1365.1	1157.6	1031.9	957.2	947.8
12.5°	2848.1	2684.7	2320.8	1944.3	1547.5	1176.5	858.2	660.2	528.1	474.7	468.4
15°	2833.2	2628.1	2173.0	1694.4	1189.1	749.0	469.2	363.1	319.9	307.3	306.5
17.5°	2831.6	2580.1	2028.4	1435.9	833.1	435.4	305.7	279.0	270.4	267.2	267.2
20°	2830.8	2534.6	1883.8	1167.9	528.9	290.0	254.6	248.3	242.1	238.1	238.1
22.5°	2839.5	2493.7	1732.9	894.4	333.2	235.0	224.0	217.7	209.8	204.3	203.5
25°	2848.1	2462.2	1578.9	636.6	241.3	204.3	193.3	184.7	173.7	166.6	165.8
27.5°	2849.7	2423.0	1413.8	426.0	202.0	178.4	164.3	150.9	138.3	131.2	130.5
30°	2826.1	2356.9	1230.7	287.6	178.4	154.8	136.0	121.8	110.0	104.5	104.5
32.5°	2779.8	2275.2	1029.5	216.9	158.8	132.8	112.4	99.0	91.2	88.8	88.0
35°	2738.1	2187.2	822.8	183.9	142.2	112.4	92.0	83.3	78.6	77.8	77.0
37.5°	2713.7	2116.4	628.7	166.6	126.5	94.3	77.8	71.5	69.2	67.6	68.4
40°	2732.6	2057.5	464.5	152.5	110.8	78.6	66.0	62.9	60.5	59.7	59.7
42.5°	2815.1	2047.3	345.0	139.9	95.9	65.2	57.4	55.0	53.4	52.7	53.4
45°	3032.0	2110.2	268.0	128.1	80.9	55.0	48.7	47.9	47.2	47.2	47.2
47.5°	3358.2	2239.8	223.2	114.7	67.6	47.2	42.4	41.7	40.9	41.7	41.7
50°	3910.7	2477.2	199.6	101.4	55.8	40.1	36.2	36.2	36.2	36.2	36.9
52.5°	4750.8	2944.0	183.9	88.0	45.6	33.8	30.7	30.7	31.4	31.4	32.2
55°	5686.8	3563.3	169.8	74.7	38.5	28.3	25.1	25.9	26.7	27.5	27.5
57.5°	6702.2	4249.4	158.0	61.3	33.0	22.8	21.2	22.0	22.8	24.4	24.4
60°	7927.4	4992.1	140.7	47.9	27.5	18.1	16.5	18.1	20.4	22.0	22.8
62.5°	9272.9	5710.4	118.7	37.7	22.8	14.1	13.4	16.5	19.6	21.2	22.0
65°	10192.4	5936.0	91.2	30.7	17.3	10.2	11.0	14.9	18.9	21.2	21.2
67°	9819.9	5381.9	74.7	25.9	14.1	7.9	10.2	14.9	18.9	20.4	21.2
67.5°	9561.3	5165.0	71.5	25.1	13.4	7.9	10.2	14.9	18.9	21.2	21.2
70°	7779.7	3880.0	59.7	18.9	11.0	7.1	8.6	14.1	18.1	20.4	20.4
72.5°	5405.5	2392.3	53.4	13.4	9.4	6.3	7.9	13.4	17.3	19.6	20.4
75°	2569.9	866.1	45.6	10.2	8.6	5.5	7.1	13.4	17.3	19.6	19.6
77.5°	524.2	201.2	36.9	8.6	7.1	5.5	6.3	12.6	16.5	18.9	18.9
80°	172.1	77.8	27.5	7.9	7.1	5.5	6.3	11.8	16.5	18.1	18.9
82.5°	124.2	39.3	18.1	7.9	7.1	5.5	5.5	11.8	15.7	18.1	18.1
85°	95.1	27.5	11.8	7.9	7.1	5.5	5.5	11.0	14.9	17.3	17.3
87.5°	62.9	11.0	9.4	7.9	7.1	5.5	5.5	11.0	14.1	16.5	17.3
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)