

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: P319917

Luminaire Tested: **GAN-SA3B-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13863 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

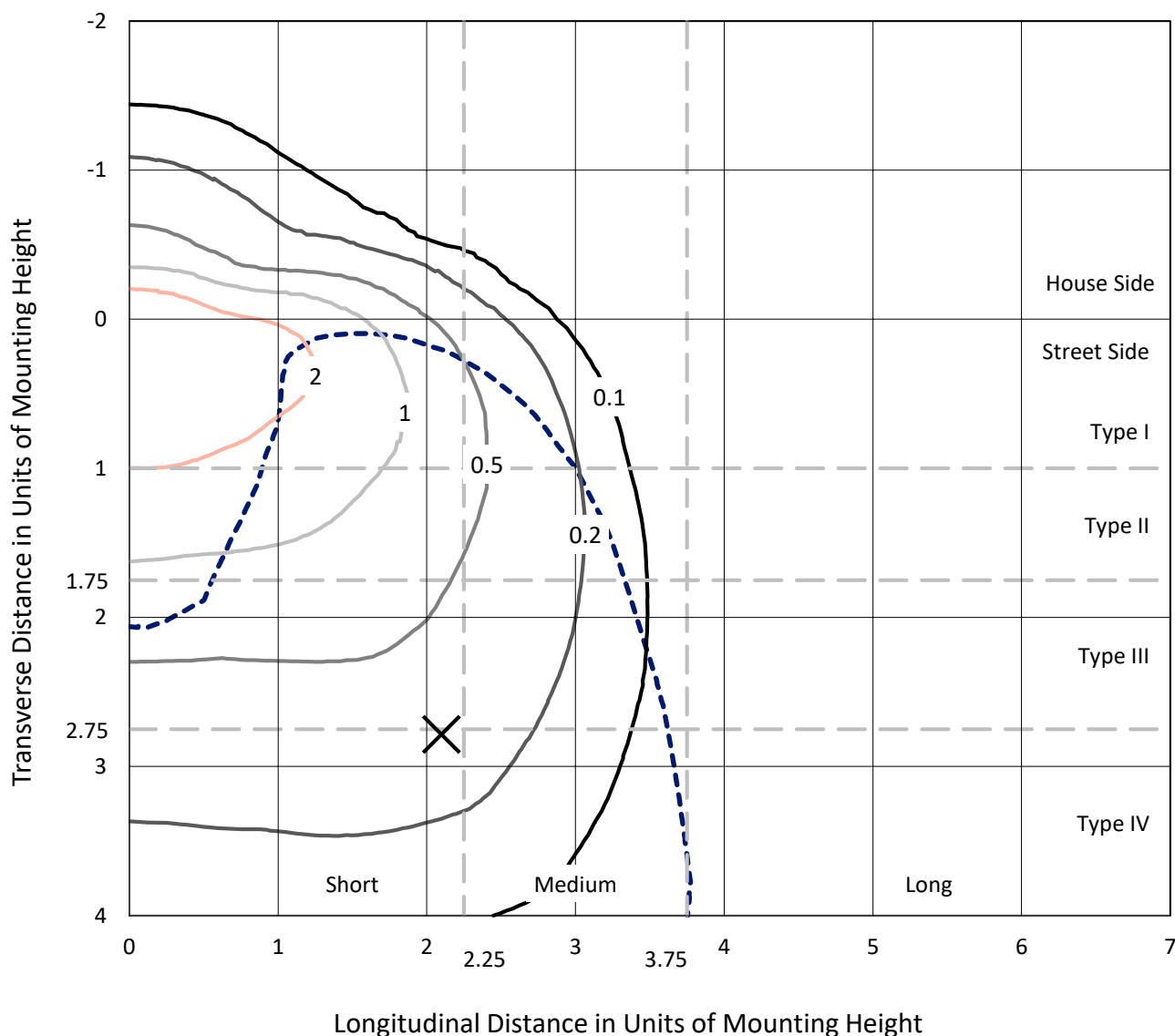
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

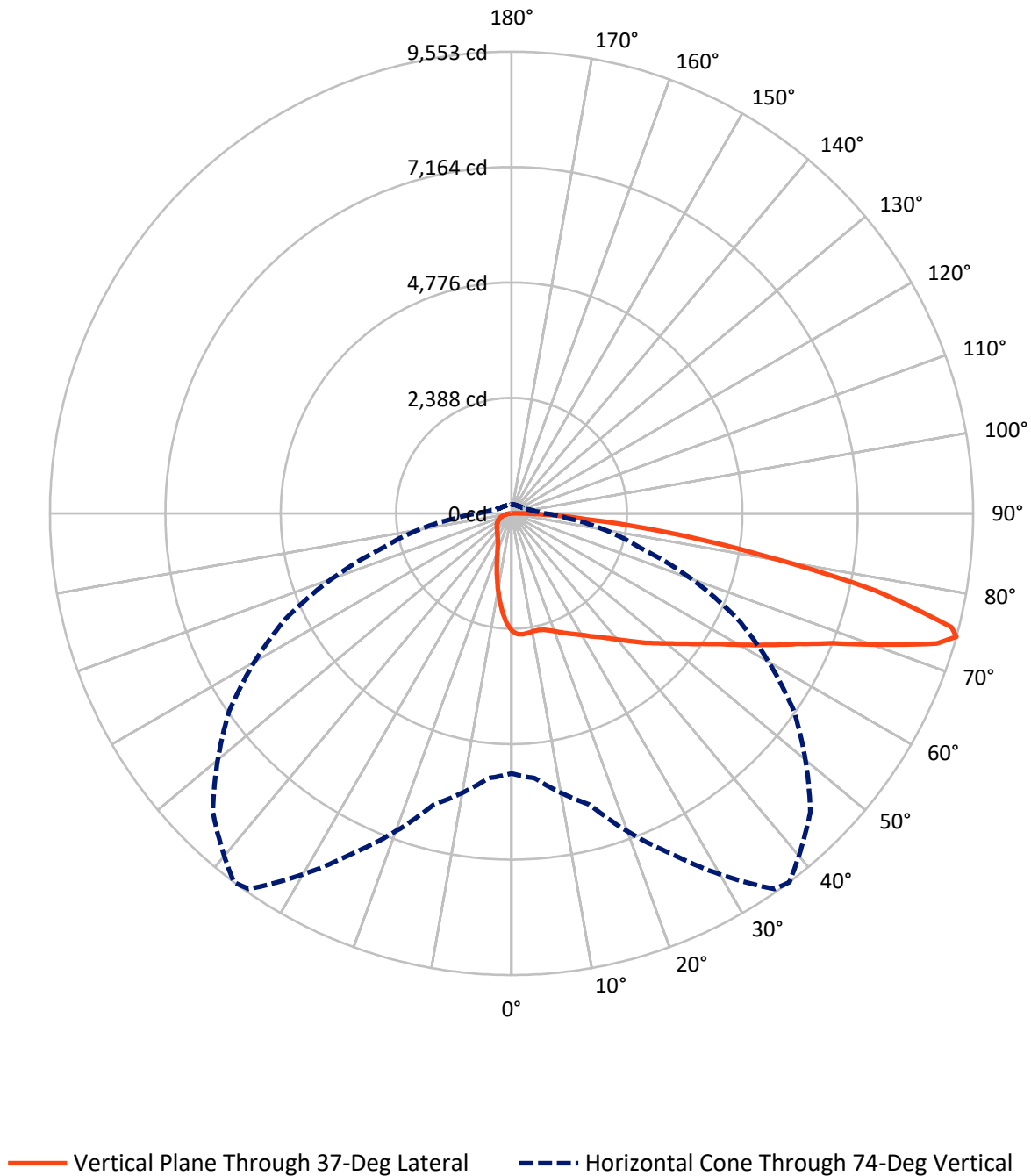
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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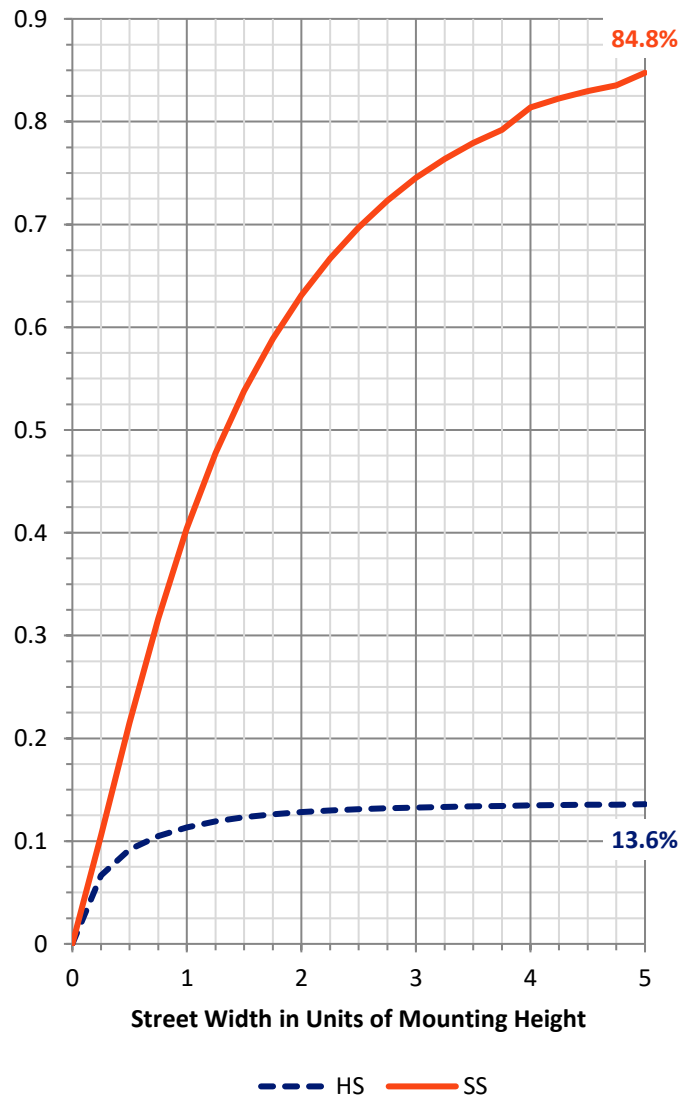
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1907.5	0.0	1907.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	11955.5	0.0	11955.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	13863.0	0.0	13863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.1	1.6
10°-20°	551.4	4.0
20°-30°	849.5	6.1
30°-40°	1235.3	8.9
40°-50°	1818.2	13.1
50°-60°	2553.4	18.4
60°-70°	3231.8	23.3
70°-80°	2845.7	20.5
80°-90°	562.7	4.1
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°	13863.0	100.0
0°-180°	13863.0	100.0

Coefficient of Utilization



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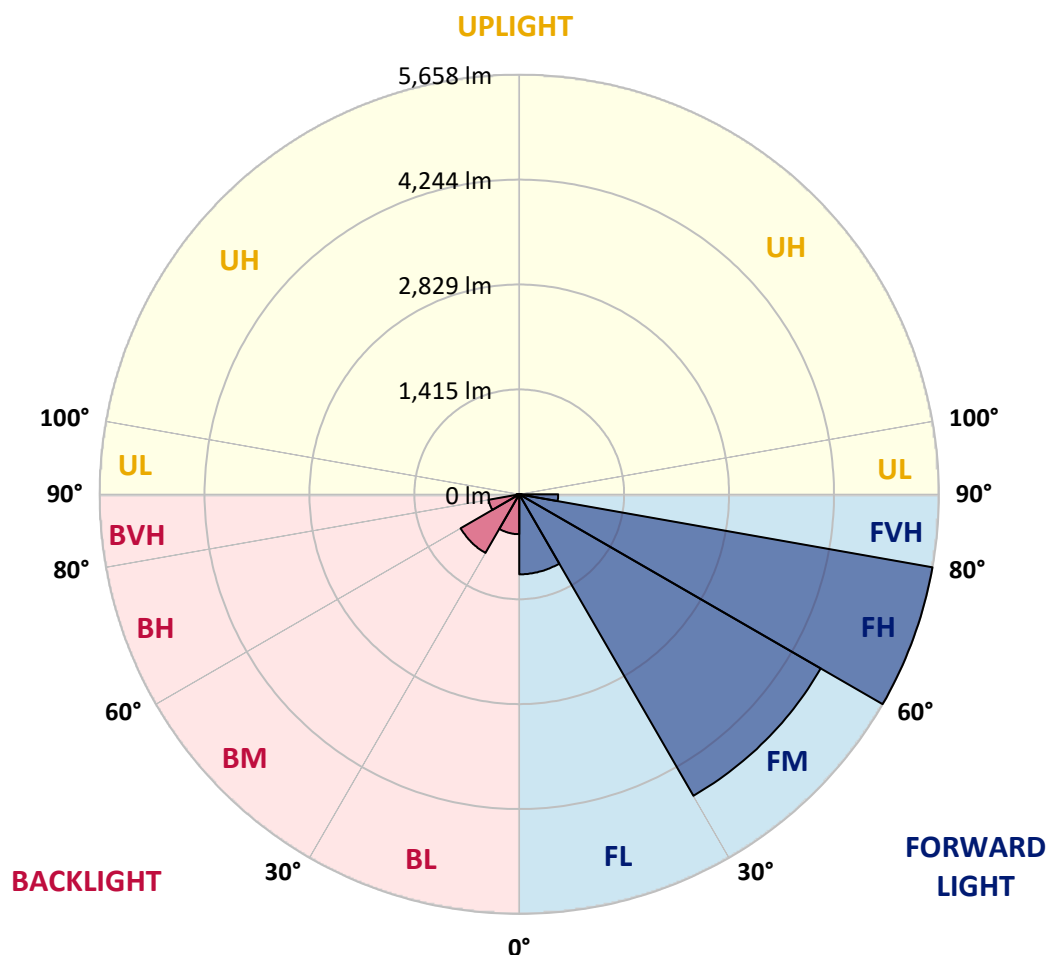
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1078.7	7.8			
FM	(30°-60°)	4694.1	33.9			
FH	(60°-80°)	5658.2	40.8			G3/7500
FVH	(80°-90°)	524.6	3.8			G4/750
BL	(0°-30°)	537.3	3.9	B2/1000		
BM	(30°-60°)	912.8	6.6	B1/1000		
BH	(60°-80°)	419.3	3.0	B1/500		G1/500
BVH	(80°-90°)	38.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6
2.5°	2526.1	2526.6	2526.1	2522.2	2512.9	2505.1	2498.8	2489.5	2469.0	2453.4	2429.9
5°	2550.0	2547.1	2545.2	2537.8	2523.2	2514.4	2502.2	2484.6	2450.9	2419.7	2381.6
7.5°	2538.8	2535.4	2531.0	2522.2	2505.6	2498.3	2481.2	2458.2	2417.7	2376.7	2322.0
10°	2504.1	2503.2	2501.2	2499.3	2485.1	2479.2	2463.6	2439.2	2399.1	2349.3	2285.4
12.5°	2465.6	2468.0	2475.8	2486.1	2479.7	2476.8	2467.0	2450.4	2409.4	2355.7	2278.5
15°	2441.1	2448.0	2469.0	2495.8	2501.2	2500.2	2497.8	2487.0	2443.6	2384.0	2294.2
17.5°	2432.8	2444.1	2484.1	2528.6	2544.2	2547.6	2548.6	2530.0	2481.7	2418.7	2310.3
20°	2448.0	2462.1	2520.7	2581.8	2606.7	2608.6	2604.2	2572.0	2517.8	2448.5	2319.1
22.5°	2493.9	2506.6	2579.8	2648.7	2677.0	2679.9	2666.7	2617.9	2555.9	2483.6	2331.3
25°	2582.3	2597.9	2671.1	2740.0	2754.6	2755.1	2736.1	2675.5	2605.7	2532.9	2357.6
27.5°	2697.5	2713.1	2779.1	2846.5	2838.6	2834.2	2808.4	2747.8	2670.7	2600.8	2404.5
30°	2825.9	2843.0	2905.5	2953.4	2934.8	2926.0	2905.1	2826.9	2761.0	2693.6	2476.3
32.5°	2958.8	2974.4	3029.1	3061.8	3038.4	3034.5	3002.7	2931.4	2878.7	2835.2	2592.5
35°	3095.0	3106.2	3160.0	3178.5	3147.3	3146.3	3137.5	3072.1	3038.9	3059.4	2761.5
37.5°	3234.2	3237.1	3283.0	3284.0	3274.7	3278.6	3287.9	3246.9	3256.2	3320.1	2981.2
40°	3358.2	3366.0	3399.2	3409.5	3425.6	3439.3	3485.7	3458.8	3530.6	3643.9	3254.7
42.5°	3450.0	3465.2	3518.4	3544.8	3597.0	3618.5	3683.9	3708.8	3853.4	4023.3	3579.9
45°	3527.7	3551.1	3636.6	3690.8	3779.2	3816.8	3910.5	3994.0	4218.2	4435.0	3922.2
47.5°	3611.7	3641.4	3748.4	3851.9	3972.0	4014.5	4185.0	4310.0	4607.4	4849.1	4245.0
50°	3735.2	3758.2	3862.7	4025.3	4175.2	4229.9	4465.7	4645.0	5002.9	5243.6	4524.8
52.5°	3907.6	3898.8	3987.2	4215.2	4416.4	4483.8	4765.6	5001.4	5403.8	5600.6	4761.2
55°	4080.9	4066.3	4128.3	4414.0	4697.7	4768.5	5095.7	5359.4	5785.2	5921.9	4942.3
57.5°	4273.8	4246.0	4298.2	4638.1	5018.0	5102.5	5465.3	5739.8	6160.2	6181.7	5057.6
60°	4472.6	4435.0	4493.6	4916.0	5424.8	5524.4	5898.0	6110.9	6513.8	6389.7	5094.7
62.5°	4646.4	4620.1	4710.4	5226.1	5883.4	5992.7	6322.8	6505.5	6862.4	6476.2	4960.9
65°	4798.3	4802.7	4959.0	5574.7	6394.6	6511.3	6810.2	6991.9	7136.9	6424.9	4647.9
67.5°	4979.5	5004.4	5271.0	6033.8	7038.2	7166.2	7519.2	7522.2	7290.2	6124.1	4031.6
70°	5243.6	5294.9	5700.2	6670.5	7953.4	8129.2	8401.6	7833.7	7074.9	5308.6	3172.2
72.5°	5478.0	5573.8	6156.8	7399.1	9068.7	9202.0	8917.8	7654.0	6174.9	3978.4	1976.3
74°	5382.8	5501.5	6239.8	7758.0	9488.7	9552.6	8743.5	7129.6	5148.4	2755.1	1148.5
75°	5177.7	5306.6	6118.7	7754.6	9435.4	9399.8	8322.5	6530.4	4240.1	1879.1	764.2
77.5°	4178.6	4314.8	5155.7	6646.1	7736.5	7702.9	6393.2	4380.8	1857.1	616.3	388.2
80°	2429.4	2533.4	3200.5	4220.6	5216.8	5277.8	4204.5	2167.7	730.5	346.2	263.2
82.5°	1079.2	1151.0	1546.0	2154.5	3148.2	3226.9	2201.9	1135.8	451.2	210.5	158.2
85°	708.1	761.3	938.6	1026.0	1499.2	1552.9	1077.7	884.4	297.9	115.7	116.2
87.5°	509.3	560.6	697.3	608.9	688.1	651.4	586.5	818.4	119.6	65.9	39.1
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°	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6
2.5°	2419.7	2411.8	2394.3	2361.1	2342.5	2326.9	2301.0	2285.9	2279.0	2278.5	2281.5
5°	2359.6	2341.5	2296.1	2240.4	2196.0	2155.5	2105.2	2074.9	2053.4	2040.7	2044.1
7.5°	2289.8	2261.4	2190.1	2101.3	2030.0	1951.4	1873.7	1827.3	1791.2	1764.3	1769.2
10°	2241.9	2202.8	2098.8	1970.9	1852.2	1738.0	1631.0	1567.0	1516.3	1477.2	1480.1
12.5°	2225.8	2173.1	2029.0	1858.1	1691.6	1535.3	1395.6	1297.5	1245.2	1200.8	1204.2
15°	2228.2	2157.4	1970.4	1756.5	1547.0	1350.2	1180.8	1066.0	995.2	964.4	964.9
17.5°	2230.2	2139.4	1908.9	1647.6	1403.9	1177.4	993.3	877.0	810.1	781.8	782.3
20°	2223.8	2110.1	1832.7	1522.6	1254.5	1018.6	840.4	741.8	691.0	669.0	669.0
22.5°	2215.5	2075.4	1746.7	1397.1	1107.0	880.9	731.0	655.8	626.5	611.9	611.4
25°	2219.4	2049.5	1658.8	1268.2	971.3	771.1	658.3	608.5	588.9	579.6	579.2
27.5°	2240.4	2037.3	1577.8	1139.8	852.6	688.5	609.4	574.3	561.6	555.7	555.7
30°	2278.5	2037.3	1493.3	1030.4	754.0	627.5	571.8	547.9	539.1	535.2	535.2
32.5°	2344.9	2048.5	1411.8	922.0	675.4	579.6	540.6	524.5	517.6	515.7	515.7
35°	2459.2	2086.6	1332.2	819.4	611.9	540.6	510.8	501.5	496.6	496.1	497.6
37.5°	2619.9	2164.3	1257.4	743.7	566.9	508.8	485.9	478.6	475.6	478.1	480.0
40°	2822.0	2269.7	1189.6	675.4	532.8	483.4	462.9	458.0	456.6	460.0	462.9
42.5°	3066.2	2412.3	1133.9	626.0	506.4	462.0	443.4	437.5	436.1	440.0	443.9
45°	3330.4	2565.7	1094.8	589.4	485.9	445.8	426.3	420.0	417.0	419.0	423.4
47.5°	3570.6	2710.7	1079.2	563.5	466.4	432.2	411.2	403.4	398.5	397.5	400.9
50°	3773.3	2818.6	1086.5	547.9	450.7	417.0	396.5	387.7	380.4	376.0	378.5
52.5°	3920.8	2886.5	1093.4	541.1	438.5	400.4	380.4	372.1	362.3	355.0	355.0
55°	4027.7	2902.1	1078.2	535.7	429.2	382.4	362.3	354.5	344.8	336.5	335.5
57.5°	4069.7	2858.2	1022.1	527.9	422.9	365.3	343.3	337.4	329.1	319.4	318.9
60°	4013.1	2722.4	913.7	511.3	414.6	351.1	324.2	320.3	316.4	307.2	306.7
62.5°	3785.5	2424.5	773.5	477.6	398.0	336.0	306.7	308.6	309.1	302.8	301.8
65°	3372.9	2015.3	636.8	433.6	373.1	317.9	288.6	297.9	303.3	302.3	300.8
67.5°	2773.2	1568.5	539.6	387.2	340.4	293.0	269.1	279.8	284.2	287.6	286.6
70°	2058.3	1106.1	446.3	338.4	300.8	263.7	243.7	249.0	246.1	250.0	251.5
72.5°	1147.6	663.6	363.8	289.6	259.8	229.5	215.4	214.4	208.0	208.0	208.0
74°	688.5	486.9	319.9	259.3	234.9	207.1	194.8	190.4	184.6	185.1	184.6
75°	553.8	418.5	293.5	239.3	217.3	193.9	181.7	175.8	171.4	171.4	170.9
77.5°	349.6	317.9	236.3	190.4	173.8	159.7	151.4	143.6	143.6	143.1	142.6
80°	264.2	253.0	184.1	144.1	133.3	122.6	117.2	113.8	113.8	115.2	114.8
82.5°	181.2	190.4	129.4	100.6	95.2	87.4	86.4	86.9	85.5	83.5	83.0
85°	132.3	143.1	87.4	63.5	58.1	53.2	57.1	59.1	56.6	52.3	50.3
87.5°	50.8	93.8	46.9	26.4	24.4	21.0	24.4	25.4	27.3	21.5	22.0
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)