

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: P318308

Luminaire Tested: **GAN-SA4A-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15725 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

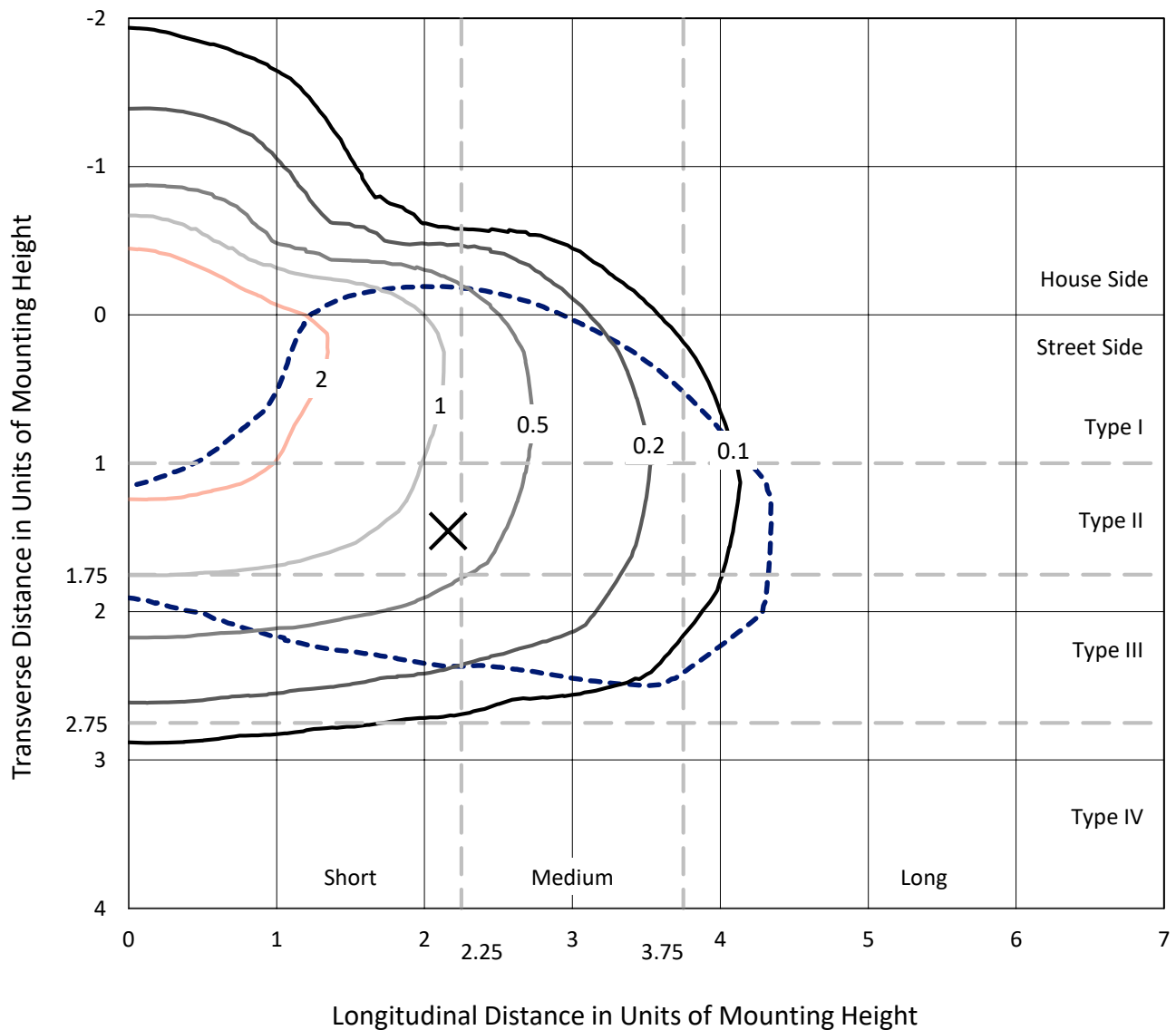
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

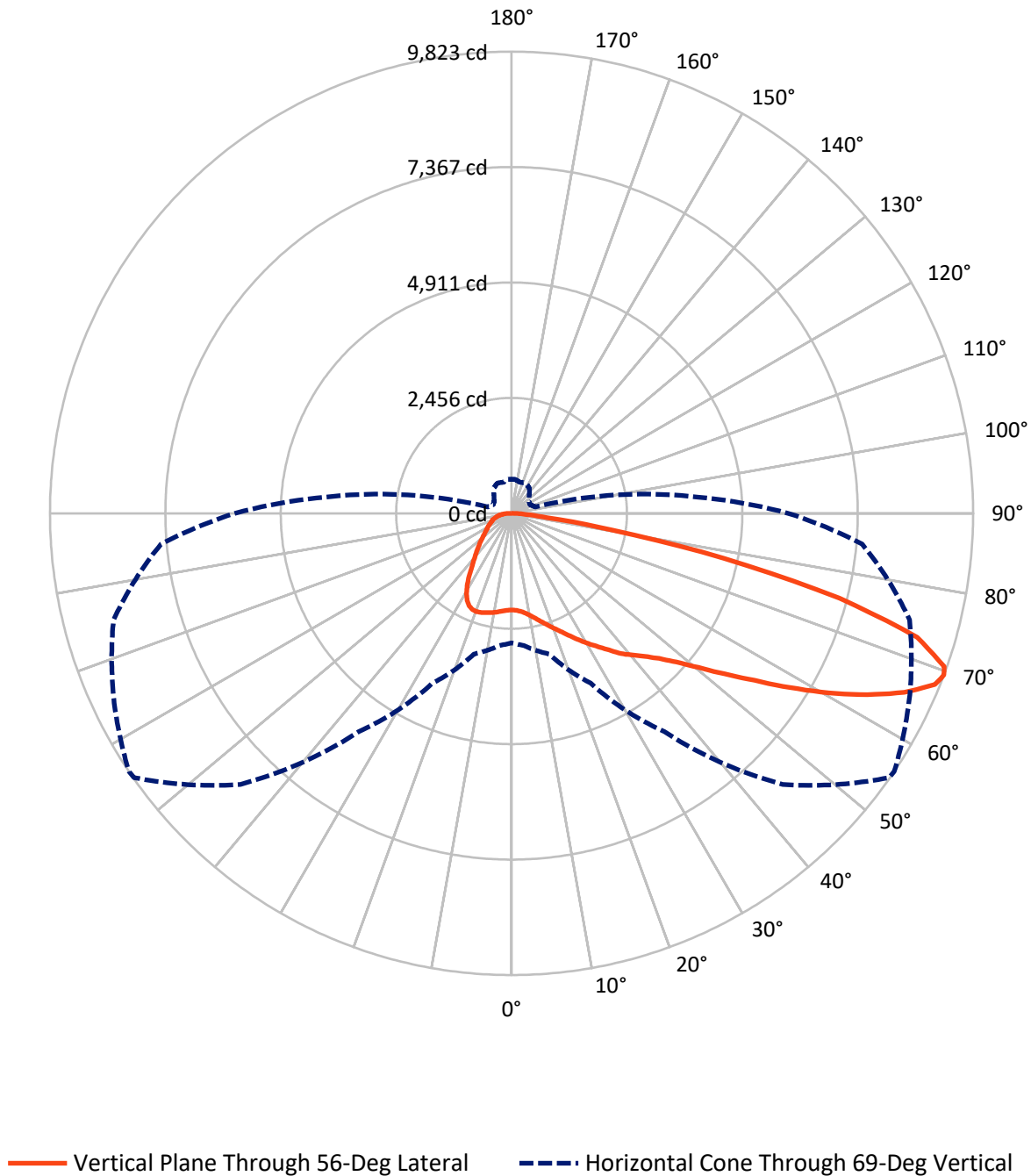
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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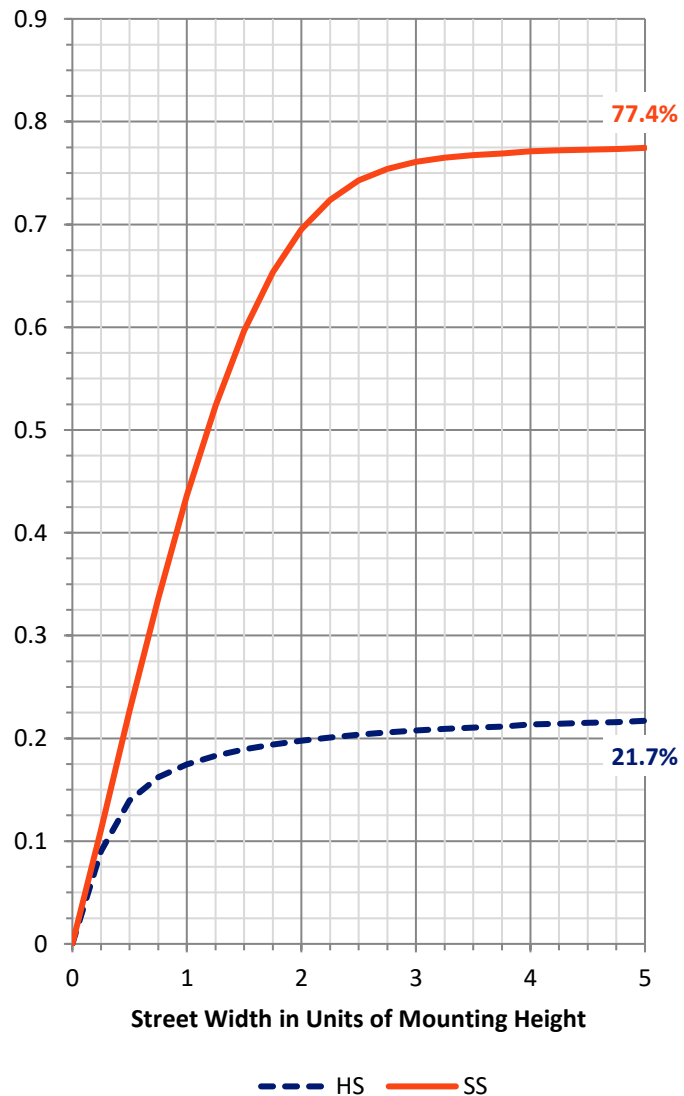
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3501.9	0.0	3501.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	12223.1	0.0	12223.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	15725.0	0.0	15725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	1.3
10°-20°	649.3	4.1
20°-30°	1133.4	7.2
30°-40°	1628.1	10.4
40°-50°	2253.1	14.3
50°-60°	3301.2	21.0
60°-70°	4024.7	25.6
70°-80°	2225.1	14.2
80°-90°	308.2	2.0
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°	15725.0	100.0
0°-180°	15725.0	100.0

Coefficient of Utilization



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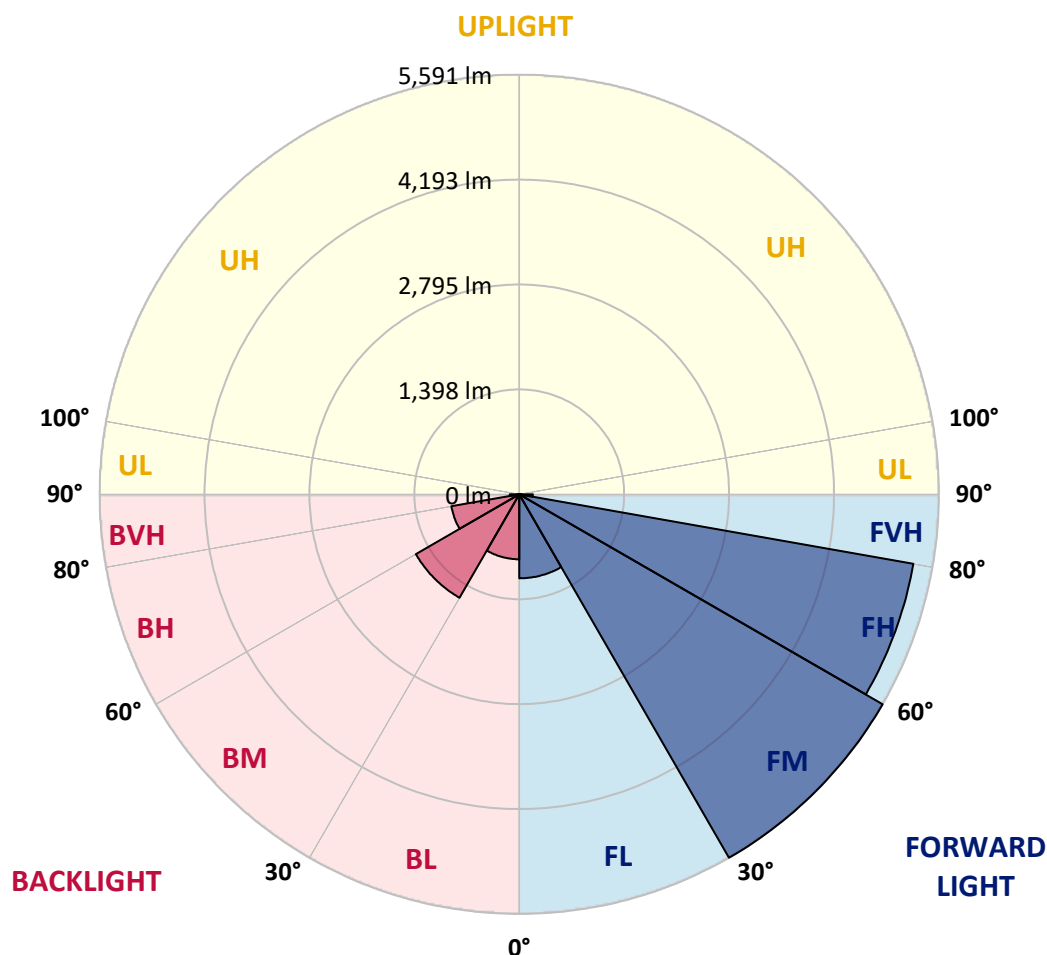
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1119.2	7.1			
FM	(30°-60°)	5590.8	35.6			
FH	(60°-80°)	5331.6	33.9			G3/7500
FVH	(80°-90°)	181.5	1.2			G2/225
BL	(0°-30°)	865.4	5.5	B2/1000		
BM	(30°-60°)	1591.5	10.1	B2/2500		
BH	(60°-80°)	918.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	126.6	0.8			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8
2.5°	2068.8	2071.0	2069.3	2073.7	2068.8	2072.1	2069.3	2069.3	2067.7	2062.8	2057.4
5°	2101.3	2105.6	2102.9	2107.3	2101.3	2102.4	2097.5	2097.5	2092.6	2082.4	2071.5
7.5°	2152.2	2157.1	2154.9	2159.3	2151.1	2151.1	2144.6	2144.1	2134.4	2117.6	2105.1
10°	2212.9	2219.4	2217.2	2223.7	2217.2	2219.4	2212.9	2212.9	2199.9	2176.1	2160.4
12.5°	2301.2	2309.3	2303.4	2302.8	2300.1	2304.5	2299.0	2298.0	2286.0	2253.5	2231.9
15°	2419.3	2428.0	2415.5	2414.4	2399.3	2397.6	2397.6	2396.0	2388.4	2349.4	2313.7
17.5°	2555.3	2558.0	2547.1	2529.8	2510.3	2497.8	2496.2	2500.6	2500.6	2455.1	2398.2
20°	2688.5	2693.4	2684.7	2665.2	2640.3	2621.9	2608.9	2617.6	2617.0	2562.9	2482.1
22.5°	2833.7	2845.1	2832.1	2807.2	2777.9	2757.3	2734.6	2742.2	2742.7	2676.1	2564.5
25°	3021.7	3011.4	3003.3	2968.1	2926.3	2905.2	2884.1	2891.7	2889.5	2798.0	2649.5
27.5°	3188.0	3190.2	3179.3	3141.9	3093.7	3047.1	3046.1	3050.9	3042.8	2924.7	2729.7
30°	3381.4	3382.5	3367.3	3333.7	3281.2	3221.0	3207.0	3215.1	3197.7	3045.0	2814.2
32.5°	3573.7	3579.1	3562.3	3521.7	3479.4	3406.3	3378.1	3383.5	3340.2	3167.9	2901.4
35°	3742.2	3749.7	3744.3	3717.2	3671.2	3608.4	3574.8	3571.5	3517.9	3318.5	3016.8
37.5°	3913.9	3920.9	3915.0	3892.2	3873.8	3807.2	3789.3	3789.3	3696.1	3472.4	3163.6
40°	4090.5	4101.3	4094.3	4062.9	4047.2	4016.8	3974.0	3963.7	3863.0	3657.1	3403.1
42.5°	4254.6	4268.7	4296.9	4278.5	4246.5	4250.8	4164.7	4159.3	4085.6	3930.1	3703.7
45°	4487.6	4508.1	4555.8	4541.7	4535.2	4511.4	4409.0	4404.1	4376.0	4297.4	4076.9
47.5°	4741.6	4769.8	4855.9	4858.6	4928.5	4883.6	4744.3	4727.5	4734.0	4737.3	4532.5
50°	4975.6	5006.5	5147.9	5214.5	5379.2	5389.0	5166.3	5151.2	5176.6	5251.4	5063.4
52.5°	5162.5	5201.5	5378.1	5584.0	5866.2	5946.4	5685.8	5674.5	5693.4	5822.3	5663.6
55°	5299.6	5341.8	5534.2	5909.0	6359.7	6501.1	6283.9	6273.1	6285.0	6449.1	6316.4
57.5°	5331.6	5341.8	5620.8	6127.9	6776.3	7116.0	7015.7	6994.1	6935.6	7078.6	7036.9
60°	5181.5	5222.7	5549.3	6204.8	7098.6	7722.1	7780.6	7753.6	7589.4	7706.4	7672.8
62.5°	4877.1	4950.7	5282.3	6087.8	7224.8	8217.3	8530.9	8498.4	8215.6	8291.5	8130.1
65°	4379.8	4411.2	4759.5	5684.2	7064.5	8534.2	9199.9	9183.7	8827.8	8709.1	8214.6
67.5°	3490.3	3549.3	3845.1	4840.8	6408.5	8496.8	9717.3	9715.7	9227.6	8864.1	7915.0
69°	2757.3	2818.5	3100.2	3987.6	5670.7	8155.0	9804.0	9822.9	9340.2	8769.8	7487.0
70°	2198.3	2269.2	2462.6	3358.6	5015.7	7704.3	9731.9	9766.0	9318.6	8614.3	7092.1
72.5°	935.5	993.0	1130.6	1731.3	3056.9	5753.0	8898.2	9027.1	8816.4	7884.1	5861.4
75°	408.5	426.3	488.6	705.9	1357.0	3131.1	6970.8	7209.1	7538.5	6664.2	4366.2
77.5°	299.0	306.6	340.7	414.4	608.9	1182.6	4482.7	4621.4	5436.6	4849.4	2678.2
80°	231.3	236.7	263.3	304.4	397.6	478.3	2044.4	2163.6	3056.9	2490.8	1115.4
82.5°	184.2	188.0	206.4	224.3	274.6	289.8	678.8	753.0	1128.4	688.0	295.2
85°	171.2	175.5	182.0	163.6	176.1	170.1	293.6	307.2	340.7	270.3	123.5
87.5°	77.5	91.5	180.4	127.3	93.7	74.8	120.3	125.7	141.4	141.9	54.7
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°	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8	2055.8
2.5°	2060.7	2059.1	2061.8	2055.3	2063.4	2062.8	2060.1	2061.2	2066.6	2066.1	2066.6
5°	2073.1	2072.1	2075.3	2070.4	2080.2	2083.4	2084.0	2088.9	2094.8	2096.4	2096.4
7.5°	2104.6	2104.6	2106.2	2099.7	2106.2	2105.6	2102.9	2107.8	2113.8	2114.3	2113.8
10°	2158.7	2159.3	2156.6	2139.8	2134.4	2119.7	2106.2	2106.7	2114.3	2120.3	2121.9
12.5°	2227.0	2224.8	2212.9	2182.0	2159.3	2129.5	2115.4	2114.9	2122.4	2127.3	2128.9
15°	2305.0	2299.0	2268.2	2217.8	2177.7	2148.4	2125.7	2120.3	2115.9	2110.5	2111.1
17.5°	2378.7	2365.1	2313.7	2243.8	2201.5	2162.5	2118.6	2083.4	2059.1	2045.0	2040.6
20°	2453.4	2426.9	2352.7	2268.2	2214.5	2143.6	2059.1	1987.6	1943.1	1922.5	1918.8
22.5°	2521.7	2478.9	2389.0	2293.6	2204.2	2079.6	1946.9	1842.9	1781.2	1753.5	1755.7
25°	2588.3	2528.7	2426.9	2311.5	2152.2	1967.0	1790.9	1663.1	1591.6	1560.7	1559.6
27.5°	2646.8	2579.1	2468.1	2296.9	2055.3	1806.6	1606.2	1481.6	1422.0	1395.5	1391.1
30°	2714.0	2642.5	2522.8	2241.1	1913.3	1621.4	1425.8	1338.0	1295.8	1269.2	1264.4
32.5°	2795.8	2728.6	2567.7	2139.8	1731.9	1428.0	1284.9	1223.7	1185.3	1155.5	1150.1
35°	2915.0	2842.4	2579.1	1994.6	1532.5	1275.2	1181.5	1118.6	1066.6	1028.2	1024.4
37.5°	3064.5	2984.8	2553.1	1806.6	1339.1	1176.1	1095.3	1017.9	950.2	896.0	887.3
40°	3280.1	3159.8	2481.1	1589.9	1196.6	1099.7	1011.4	923.1	839.1	775.7	763.3
42.5°	3539.0	3365.1	2370.5	1374.3	1092.1	1022.2	928.0	818.5	738.4	693.4	686.9
45°	3868.4	3578.6	2217.2	1185.8	989.2	944.8	838.0	737.3	687.4	654.4	649.0
47.5°	4244.3	3818.0	2056.3	1032.5	902.0	872.2	766.0	701.0	661.4	635.4	630.6
50°	4706.4	4088.3	1885.7	906.8	814.2	784.9	731.9	680.9	649.5	629.5	624.6
52.5°	5227.5	4393.3	1762.7	807.7	741.6	720.5	714.0	670.1	644.6	629.5	624.6
55°	5788.8	4703.7	1630.0	724.3	678.8	684.7	702.1	671.2	653.8	635.4	628.4
57.5°	6350.5	5024.4	1482.1	653.8	628.9	658.2	693.9	673.4	658.7	640.8	634.3
60°	6794.7	5227.5	1253.0	594.8	589.4	628.9	674.4	657.1	638.1	638.7	637.6
62.5°	7002.2	5216.7	1000.0	542.3	549.8	589.4	643.0	631.6	615.9	637.1	638.7
65°	6885.7	4956.7	778.4	494.6	507.6	548.2	610.5	619.2	624.6	665.2	670.6
67.5°	6397.1	4450.7	602.9	452.9	469.1	520.0	613.8	674.4	681.5	724.3	723.7
69°	5891.7	3976.2	523.8	431.2	450.2	527.1	656.0	709.6	683.1	728.6	722.1
70°	5468.1	3600.8	481.6	416.6	441.5	539.5	684.2	709.1	675.0	714.0	703.1
72.5°	4211.3	2590.5	408.5	389.5	412.2	516.3	692.3	693.4	656.0	663.6	645.2
75°	2888.4	1637.1	356.4	352.7	367.8	465.3	666.3	662.5	606.7	595.9	580.7
77.5°	1592.6	831.5	302.8	317.4	327.7	412.2	605.6	600.2	554.2	531.4	526.0
80°	614.3	364.0	255.7	282.2	288.7	357.0	530.9	526.0	487.5	458.3	450.2
82.5°	231.9	190.7	211.3	244.3	242.1	294.7	449.6	446.9	409.5	366.7	353.7
85°	107.3	114.3	167.4	201.5	185.8	218.3	359.7	364.6	319.1	268.1	268.1
87.5°	45.5	63.9	118.6	152.2	125.1	147.3	263.8	251.9	231.3	160.3	150.6
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)