

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387099

Luminaire Tested: GAW-SA2D-750-U-T3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387099
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
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-750-U-T3
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16196 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

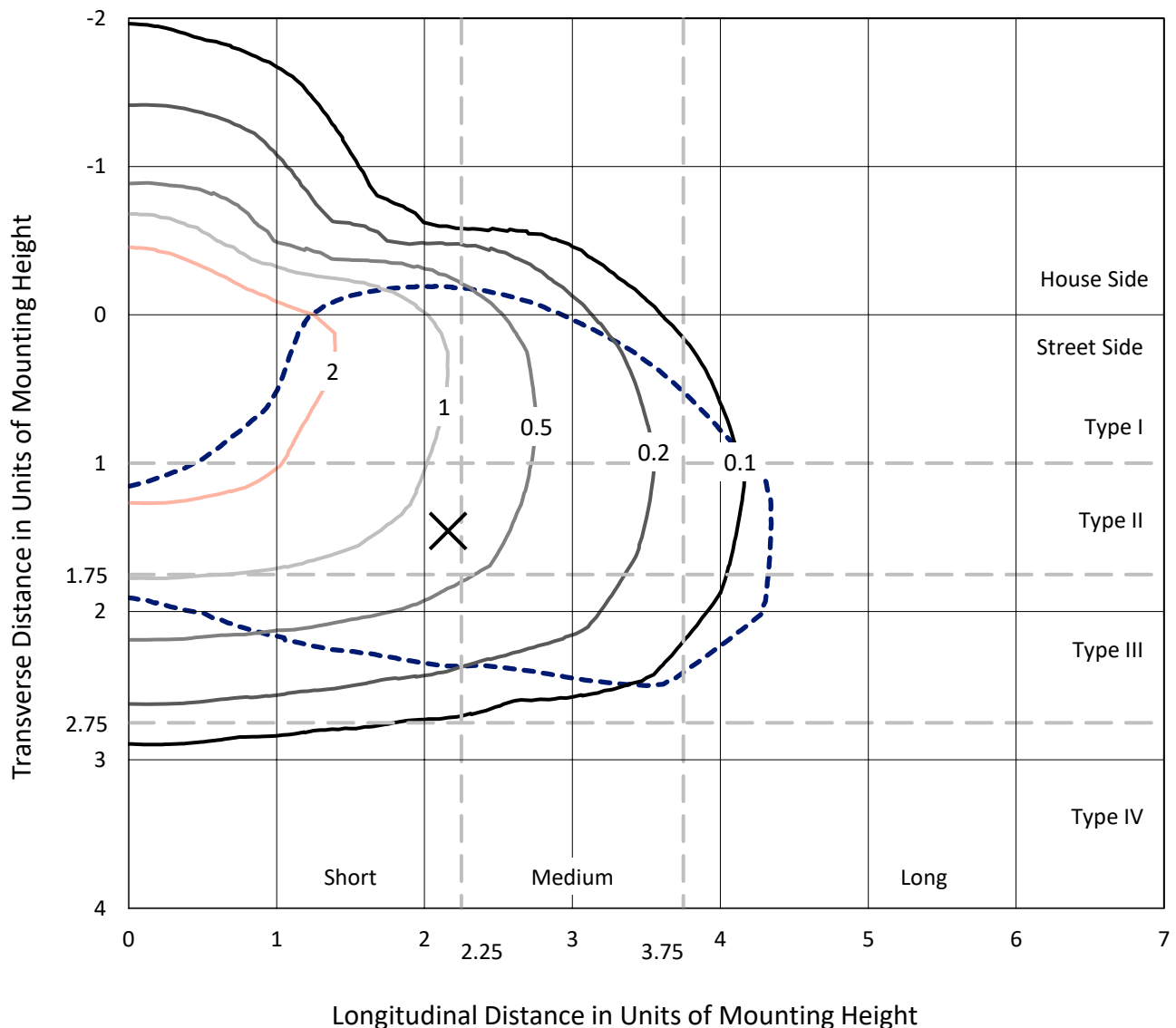
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

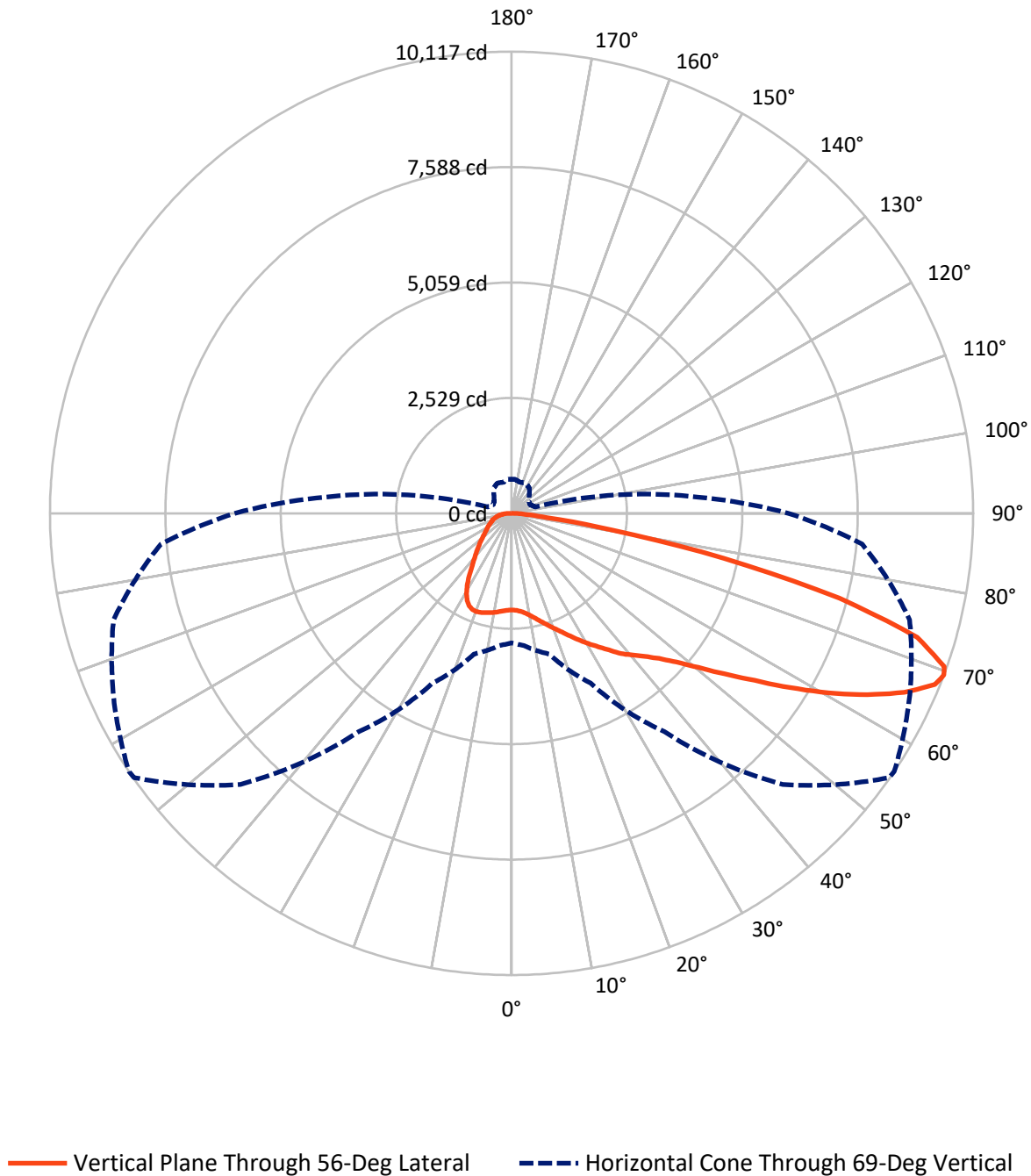
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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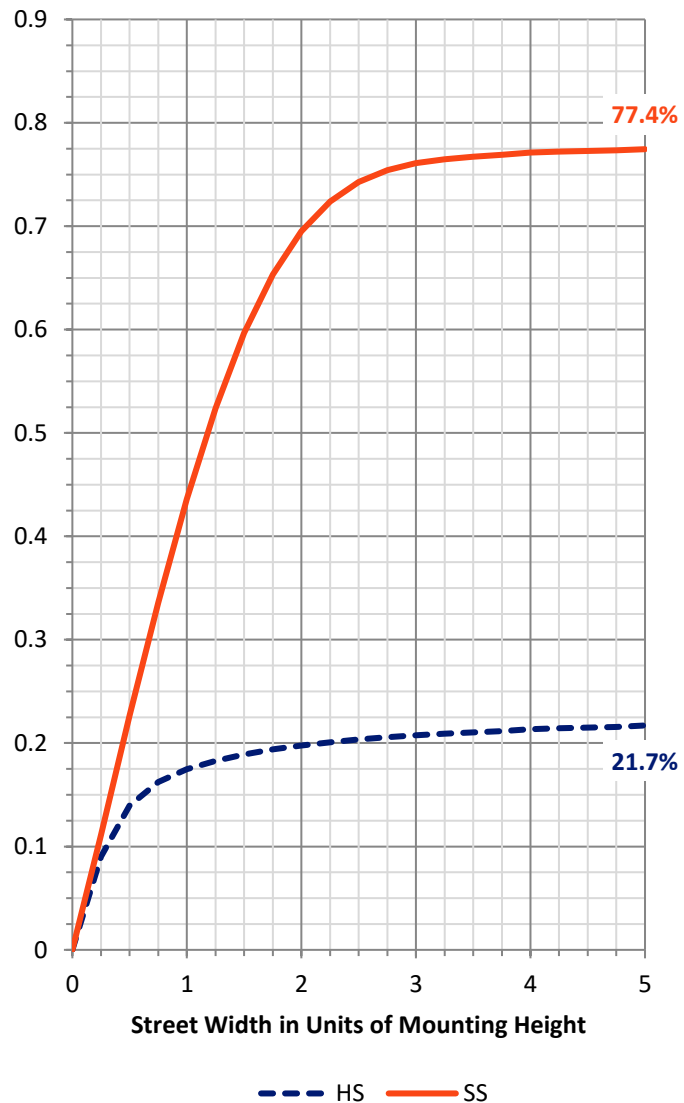
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3606.8	0.0	3606.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	12589.2	0.0	12589.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	16196.0	0.0	16196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	1.3
10°-20°	668.7	4.1
20°-30°	1167.3	7.2
30°-40°	1676.8	10.4
40°-50°	2320.6	14.3
50°-60°	3400.0	21.0
60°-70°	4145.3	25.6
70°-80°	2291.8	14.2
80°-90°	317.4	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°	16196.0	100.0
0°-180°	16196.0	100.0

Coefficient of Utilization



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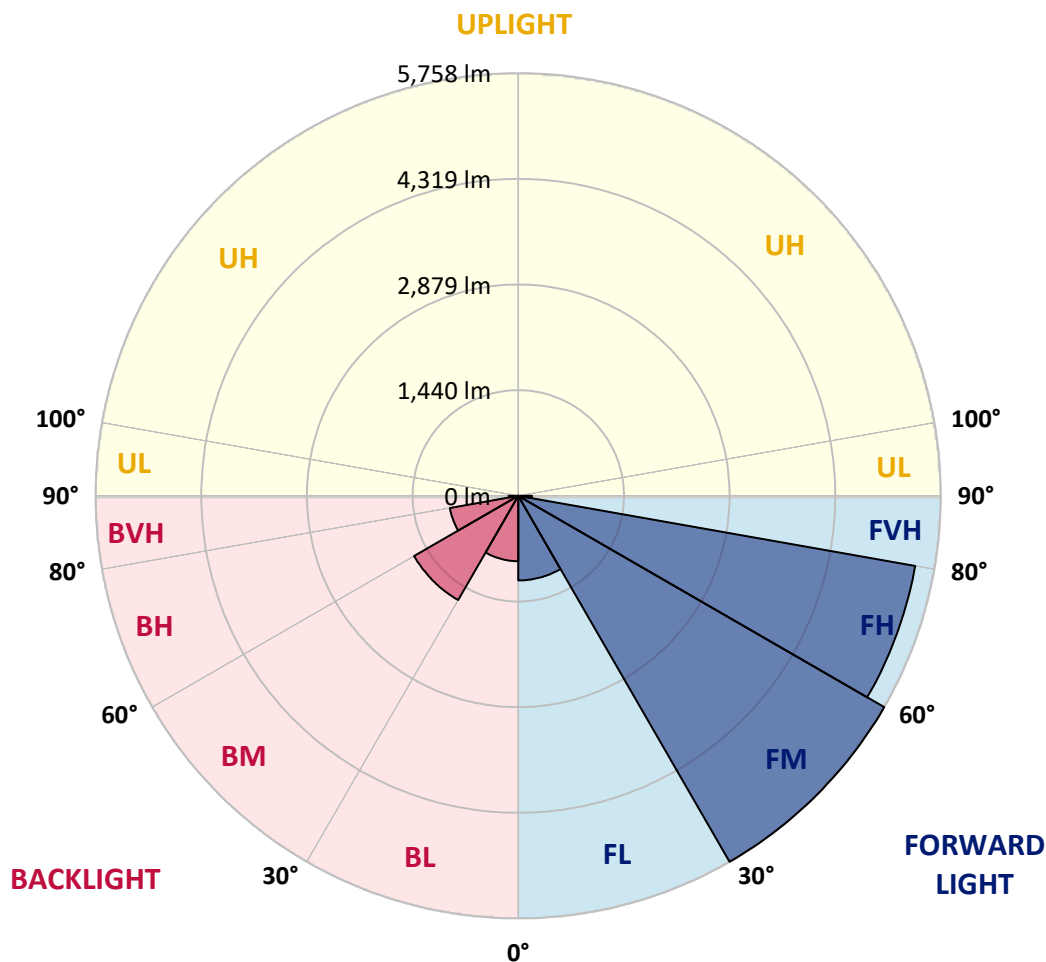
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1152.7	7.1			
FM	(30°-60°)	5758.3	35.6			
FH	(60°-80°)	5491.3	33.9			G3/7500
FVH	(80°-90°)	187.0	1.2			G2/225
BL	(0°-30°)	891.3	5.5	B2/1000		
BM	(30°-60°)	1639.2	10.1	B2/2500		
BH	(60°-80°)	945.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	130.4	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°	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4
2.5°	2130.8	2133.0	2131.3	2135.8	2130.8	2134.1	2131.3	2131.3	2129.7	2124.6	2119.1
5°	2164.3	2168.7	2165.9	2170.4	2164.3	2165.4	2160.3	2160.3	2155.3	2144.7	2133.6
7.5°	2216.7	2221.7	2219.5	2223.9	2215.6	2215.6	2208.9	2208.3	2198.3	2181.0	2168.2
10°	2279.2	2285.9	2283.6	2290.3	2283.6	2285.9	2279.2	2279.2	2265.8	2241.2	2225.1
12.5°	2370.1	2378.5	2372.4	2371.8	2369.0	2373.5	2367.9	2366.8	2354.5	2321.0	2298.7
15°	2491.8	2500.7	2487.9	2486.7	2471.1	2469.4	2469.4	2467.8	2460.0	2419.8	2383.0
17.5°	2631.8	2634.6	2623.4	2605.6	2585.5	2572.7	2571.0	2575.5	2575.5	2528.6	2470.0
20°	2769.1	2774.1	2765.2	2745.1	2719.4	2700.4	2687.0	2696.0	2695.4	2639.6	2556.5
22.5°	2918.6	2930.3	2916.9	2891.2	2861.1	2839.9	2816.5	2824.3	2824.9	2756.2	2641.3
25°	3112.2	3101.6	3093.2	3057.0	3014.0	2992.2	2970.5	2978.3	2976.1	2881.8	2728.9
27.5°	3283.5	3285.7	3274.6	3236.1	3186.4	3138.4	3137.3	3142.3	3134.0	3012.3	2811.5
30°	3482.7	3483.8	3468.2	3433.6	3379.4	3317.5	3303.0	3311.4	3293.5	3136.2	2898.5
32.5°	3680.7	3686.3	3669.0	3627.2	3583.7	3508.3	3479.3	3484.9	3440.3	3262.8	2988.3
35°	3854.3	3862.1	3856.5	3828.6	3781.2	3716.4	3681.8	3678.5	3623.3	3417.9	3107.2
37.5°	4031.1	4038.4	4032.2	4008.8	3989.8	3921.2	3902.8	3902.8	3806.8	3576.4	3258.4
40°	4213.0	4224.2	4216.9	4184.6	4168.4	4137.1	4093.0	4082.4	3978.7	3766.7	3505.0
42.5°	4382.1	4396.6	4425.6	4406.6	4373.7	4378.2	4289.4	4283.9	4208.0	4047.9	3814.6
45°	4622.0	4643.2	4692.3	4677.8	4671.1	4646.5	4541.1	4536.1	4507.0	4426.1	4199.1
47.5°	4883.7	4912.7	5001.4	5004.2	5076.1	5029.8	4886.4	4869.1	4875.8	4879.2	4668.3
50°	5124.7	5156.5	5302.1	5370.7	5540.3	5550.4	5321.1	5305.5	5331.7	5408.7	5215.1
52.5°	5317.2	5357.3	5539.2	5751.2	6041.9	6124.5	5856.1	5844.4	5864.0	5996.7	5833.3
55°	5458.3	5501.8	5699.9	6086.0	6550.2	6695.8	6472.1	6460.9	6473.2	6642.3	6505.6
57.5°	5491.2	5501.8	5789.2	6311.4	6979.3	7329.1	7225.9	7203.6	7143.3	7290.6	7247.6
60°	5336.7	5379.1	5715.5	6390.6	7311.2	7953.4	8013.7	7985.8	7816.7	7937.3	7902.7
62.5°	5023.1	5099.0	5440.5	6270.1	7441.2	8463.4	8786.4	8753.0	8461.7	8539.8	8373.6
65°	4510.9	4543.3	4902.1	5854.5	7276.1	8789.8	9475.5	9458.8	9092.2	8970.0	8460.6
67.5°	3594.8	3655.6	3960.3	4985.8	6600.4	8751.3	10008.3	10006.7	9504.0	9129.6	8152.1
69°	2839.9	2903.0	3193.1	4107.0	5840.5	8399.2	10097.6	10117.1	9620.0	9032.5	7711.3
70°	2264.1	2337.2	2536.4	3459.2	5166.0	7935.0	10023.4	10058.5	9597.7	8872.4	7304.6
72.5°	963.6	1022.7	1164.4	1783.2	3148.5	5925.3	9164.7	9297.5	9080.5	8120.3	6036.9
75°	420.7	439.1	503.3	727.0	1397.6	3224.9	7179.6	7425.1	7764.3	6863.8	4497.0
77.5°	308.0	315.8	350.9	426.8	627.1	1218.0	4617.0	4759.8	5599.5	4994.7	2758.5
80°	238.2	243.8	271.2	313.6	409.5	492.7	2105.7	2228.4	3148.5	2565.4	1148.8
82.5°	189.7	193.6	212.6	231.0	282.9	298.5	699.1	775.5	1162.2	708.6	304.1
85°	176.3	180.8	187.5	168.5	181.3	175.2	302.4	316.4	350.9	278.4	127.2
87.5°	79.8	94.3	185.8	131.1	96.5	77.0	123.9	129.4	145.6	146.2	56.4
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°	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4
2.5°	2122.4	2120.7	2123.5	2116.8	2125.2	2124.6	2121.8	2123.0	2128.5	2128.0	2128.5
5°	2135.2	2134.1	2137.5	2132.4	2142.5	2145.8	2146.4	2151.4	2157.6	2159.2	2159.2
7.5°	2167.6	2167.6	2169.3	2162.6	2169.3	2168.7	2165.9	2170.9	2177.1	2177.6	2177.1
10°	2223.4	2223.9	2221.2	2203.9	2198.3	2183.2	2169.3	2169.8	2177.6	2183.8	2185.5
12.5°	2293.7	2291.5	2279.2	2247.4	2223.9	2193.3	2178.8	2178.2	2186.0	2191.0	2192.7
15°	2374.0	2367.9	2336.1	2284.2	2242.9	2212.8	2189.4	2183.8	2179.3	2173.7	2174.3
17.5°	2449.9	2436.0	2383.0	2311.0	2267.5	2227.3	2182.1	2145.8	2120.7	2106.2	2101.8
20°	2526.9	2499.6	2423.1	2336.1	2280.9	2207.8	2120.7	2047.1	2001.3	1980.1	1976.2
22.5°	2597.2	2553.1	2460.5	2362.3	2270.3	2141.9	2005.2	1898.1	1834.5	1806.1	1808.3
25°	2665.8	2604.5	2499.6	2380.7	2216.7	2025.9	1844.6	1712.9	1639.2	1607.4	1606.3
27.5°	2726.1	2656.4	2542.0	2365.7	2116.8	1860.7	1654.3	1526.0	1464.6	1437.3	1432.8
30°	2795.3	2721.6	2598.3	2308.2	1970.6	1669.9	1468.5	1378.1	1334.6	1307.3	1302.2
32.5°	2879.5	2810.3	2644.6	2203.9	1783.7	1470.7	1323.4	1260.4	1220.8	1190.1	1184.5
35°	3002.3	2927.5	2656.4	2054.3	1578.4	1313.4	1216.9	1152.1	1098.6	1059.0	1055.1
37.5°	3156.3	3074.3	2629.6	1860.7	1379.2	1211.3	1128.2	1048.4	978.6	922.8	913.9
40°	3378.3	3254.5	2555.4	1637.6	1232.5	1132.6	1041.7	950.7	864.2	799.0	786.1
42.5°	3645.0	3465.9	2441.5	1415.5	1124.8	1052.8	955.8	843.0	760.5	714.2	707.5
45°	3984.3	3685.8	2283.6	1221.3	1018.8	973.0	863.1	759.4	708.0	674.0	668.4
47.5°	4371.5	3932.4	2117.9	1063.4	929.0	898.3	788.9	722.0	681.2	654.5	649.4
50°	4847.4	4210.8	1942.2	934.0	838.6	808.5	753.8	701.3	669.0	648.3	643.3
52.5°	5384.1	4524.9	1815.5	831.9	763.8	742.1	735.4	690.2	663.9	648.3	643.3
55°	5962.1	4844.6	1678.8	746.0	699.1	705.2	723.1	691.3	673.4	654.5	647.2
57.5°	6540.7	5174.9	1526.5	673.4	647.8	677.9	714.7	693.5	678.5	660.0	653.3
60°	6998.2	5384.1	1290.5	612.6	607.0	647.8	694.6	676.8	657.3	657.8	656.7
62.5°	7211.9	5373.0	1030.0	558.5	566.3	607.0	662.3	650.6	634.4	656.1	657.8
65°	7092.0	5105.2	801.8	509.4	522.8	564.6	628.8	637.7	643.3	685.2	690.7
67.5°	6588.7	4584.0	621.0	466.4	483.2	535.6	632.1	694.6	701.9	746.0	745.4
69°	6068.2	4095.3	539.5	444.1	463.6	542.9	675.7	730.9	703.6	750.4	743.7
70°	5631.8	3708.6	496.0	429.1	454.7	555.7	704.7	730.3	695.2	735.4	724.2
72.5°	4337.4	2668.1	420.7	401.2	424.6	531.7	713.0	714.2	675.7	683.5	664.5
75°	2974.9	1686.1	367.1	363.2	378.8	479.3	686.3	682.4	624.9	613.7	598.1
77.5°	1640.3	856.4	311.9	327.0	337.6	424.6	623.8	618.2	570.8	547.3	541.8
80°	632.7	374.9	263.3	290.7	297.4	367.7	546.8	541.8	502.1	472.0	463.6
82.5°	238.8	196.4	217.6	251.6	249.4	303.5	463.1	460.3	421.8	377.7	364.3
85°	110.5	117.7	172.4	207.6	191.4	224.8	370.5	375.5	328.6	276.2	276.2
87.5°	46.9	65.8	122.2	156.8	128.9	151.8	271.7	259.4	238.2	165.2	155.1
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)