

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: P286977

Luminaire Tested: **USSL-C02-D-U-T4-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C02-D-U-T4-BZ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21181.1 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 153
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

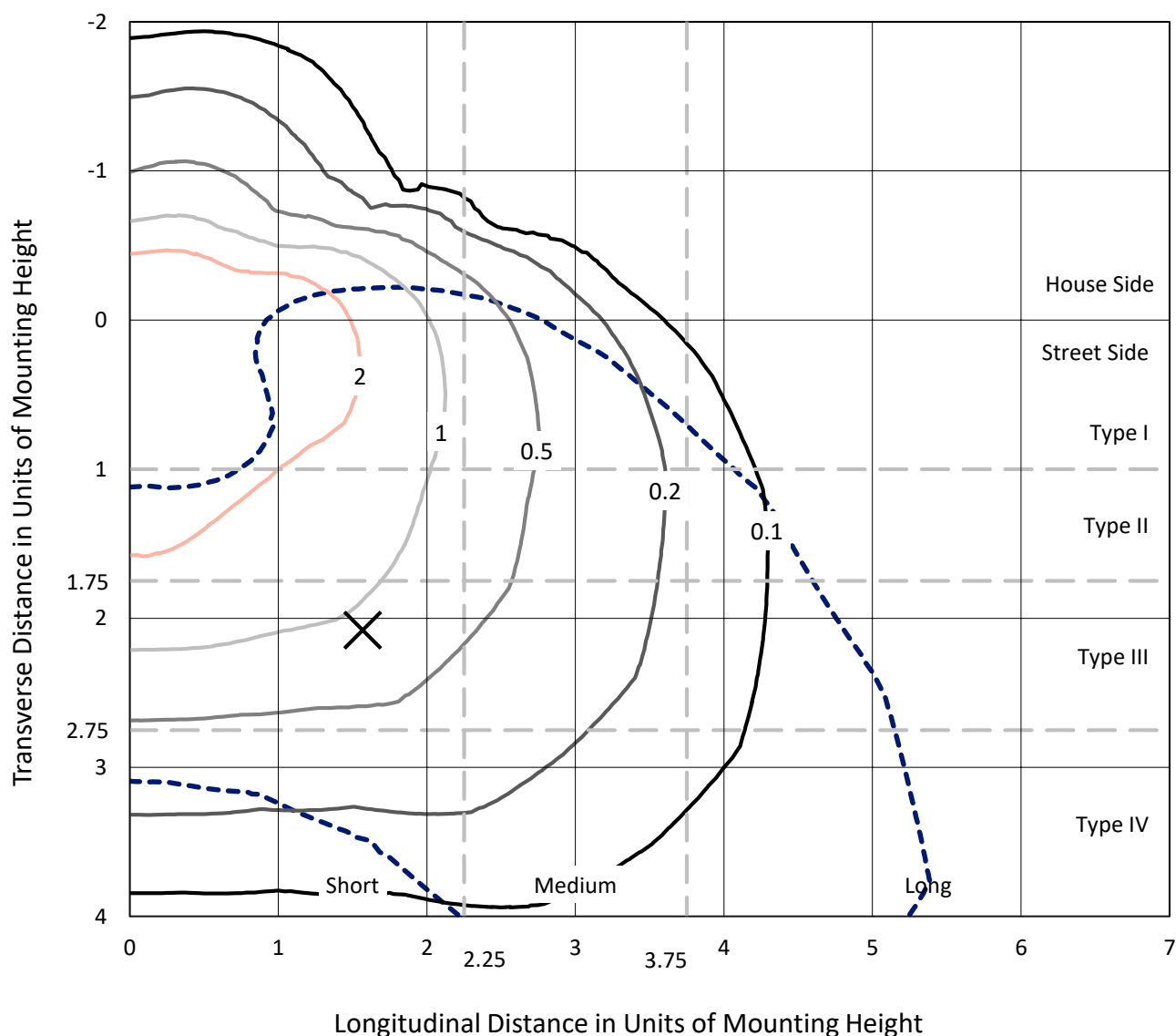


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

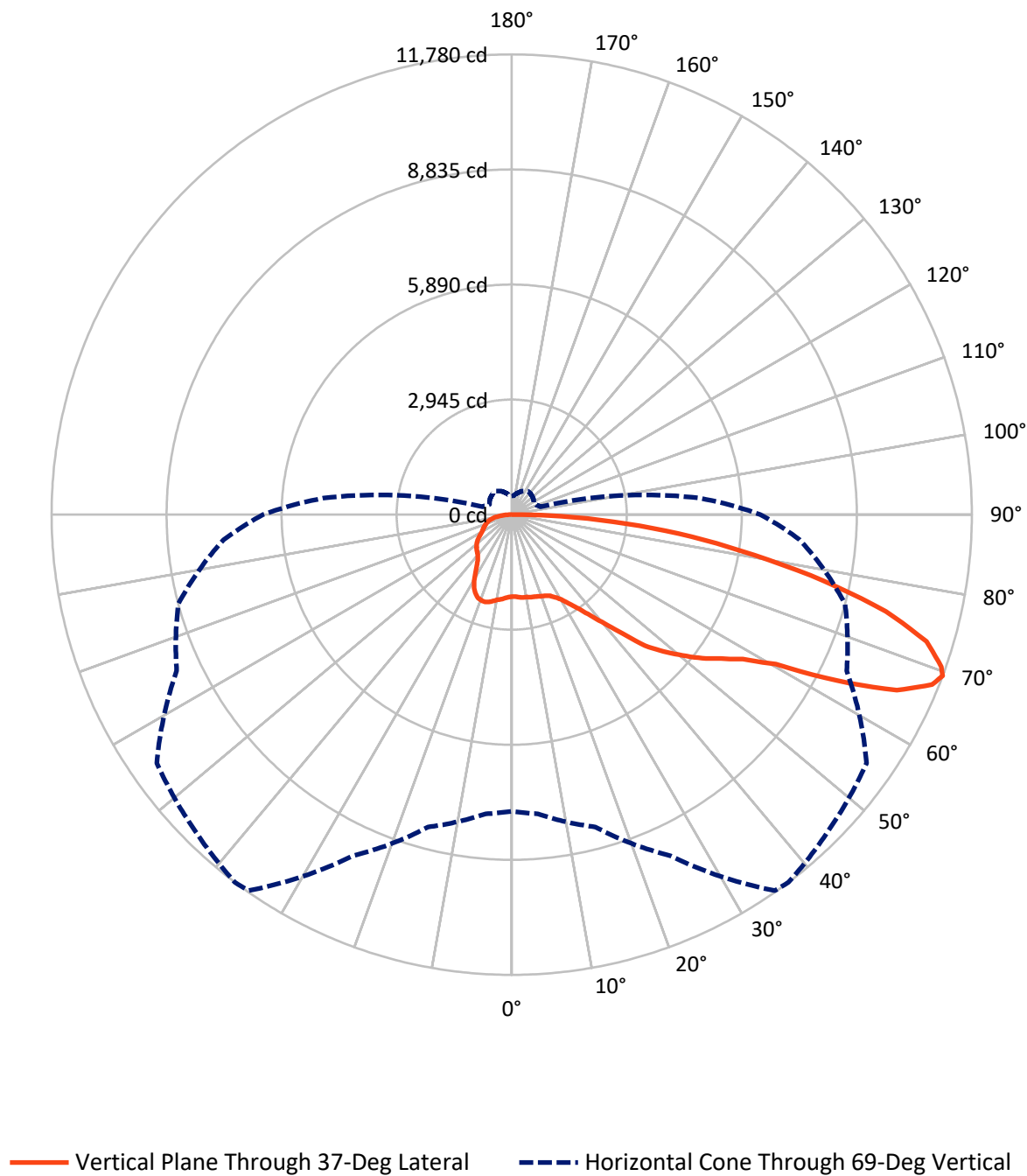


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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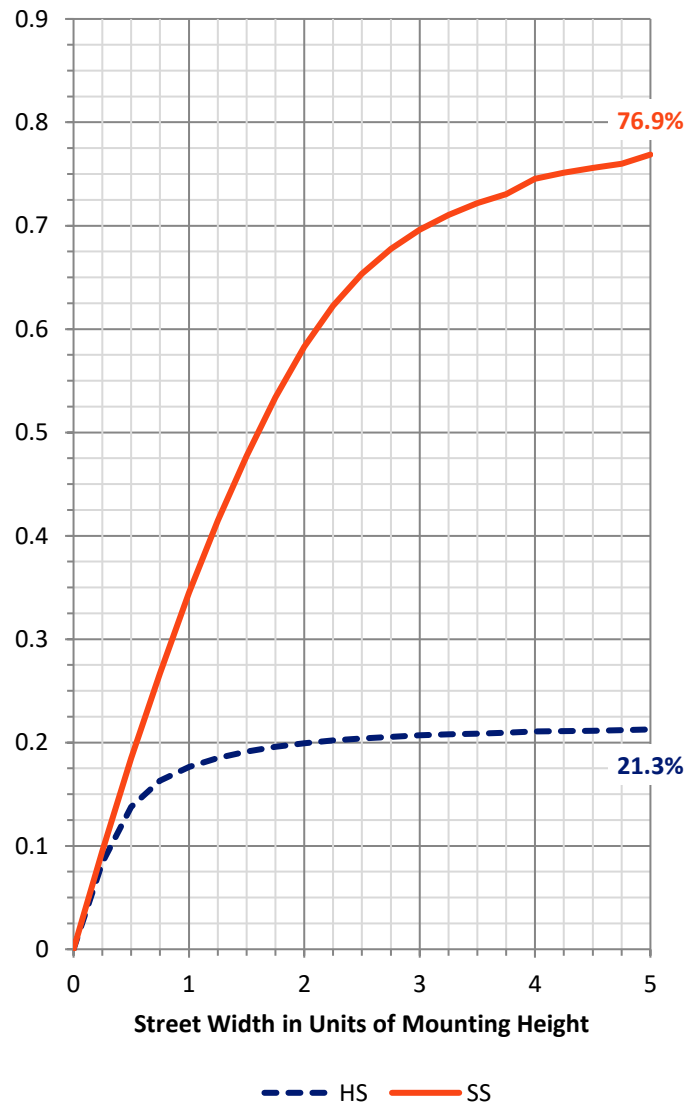
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4567.3	0.0	4567.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	16613.7	0.0	16613.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	21181.1	0.0	21181.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	1.0
10°-20°	640.0	3.0
20°-30°	1093.5	5.2
30°-40°	1733.5	8.2
40°-50°	2945.6	13.9
50°-60°	4176.3	19.7
60°-70°	5314.6	25.1
70°-80°	4078.6	19.3
80°-90°	994.1	4.7
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°	21181.1	100.0
0°-180°	21181.1	100.0

Coefficient of Utilization



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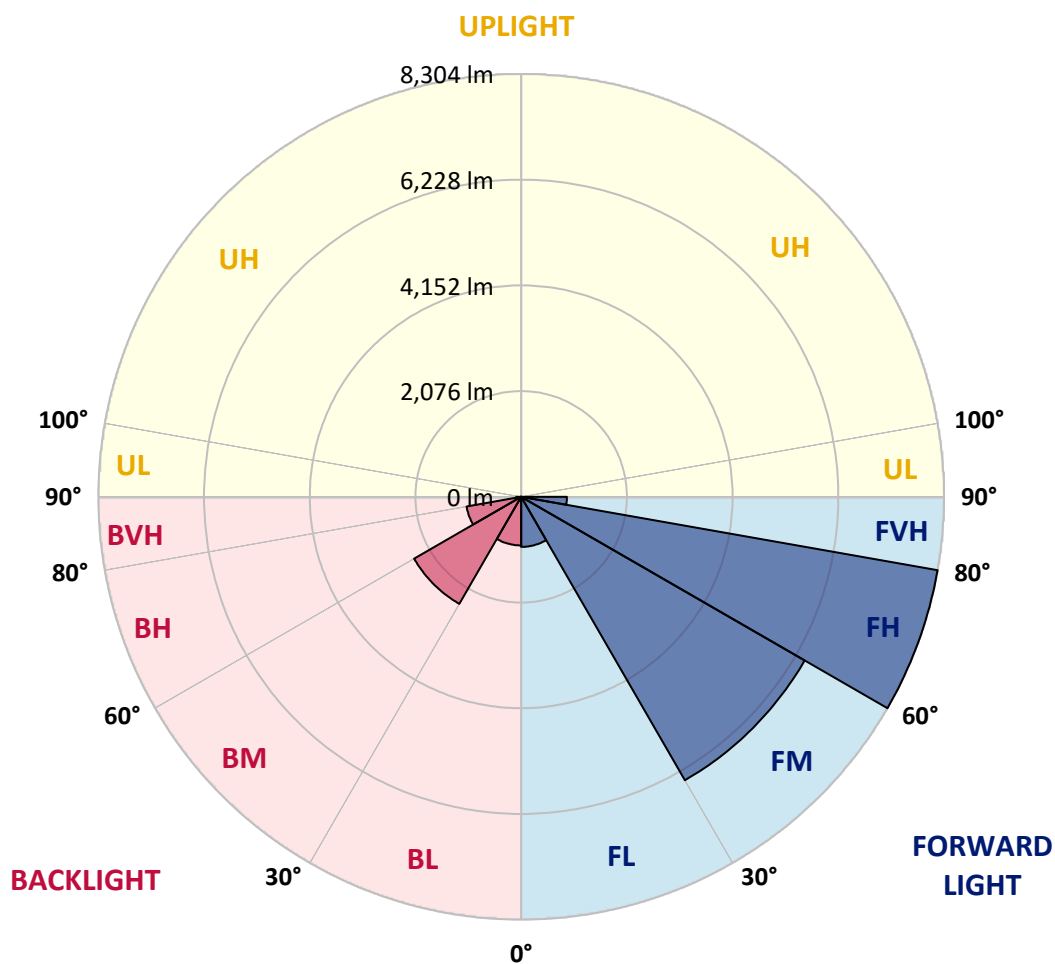
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	983.2	4.6			
FM	(30°-60°)	6428.1	30.3			
FH	(60°-80°)	8303.8	39.2			G4/12000
FVH	(80°-90°)	898.6	4.2			G5
BL	(0°-30°)	955.1	4.5	B2/1000		
BM	(30°-60°)	2427.3	11.5	B2/2500		
BH	(60°-80°)	1089.4	5.1	B3/2500		G3/2500
BVH	(80°-90°)	95.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4
2.5°	2138.0	2126.6	2126.6	2102.6	2102.6	2100.6	2105.8	2093.3	2091.3	2089.2	2081.9
5°	2165.0	2160.8	2146.3	2128.6	2137.0	2125.5	2125.5	2108.9	2109.9	2107.8	2096.5
7.5°	2158.8	2166.0	2165.0	2144.2	2138.0	2141.1	2142.2	2143.2	2132.8	2131.8	2123.4
10°	2178.5	2171.2	2174.4	2142.2	2150.4	2143.2	2154.6	2153.6	2153.6	2153.6	2144.2
12.5°	2137.0	2145.2	2148.4	2153.6	2169.2	2169.2	2187.8	2195.2	2210.7	2221.1	2208.6
15°	2125.5	2118.2	2148.4	2145.2	2181.6	2178.5	2208.6	2249.1	2262.7	2290.7	2298.0
17.5°	2119.3	2133.8	2156.7	2155.6	2190.9	2198.2	2239.8	2285.5	2323.9	2370.7	2387.3
20°	2137.0	2137.0	2160.8	2171.2	2225.3	2225.3	2268.9	2326.1	2386.3	2454.8	2490.1
22.5°	2193.0	2195.2	2217.0	2205.5	2239.8	2252.3	2289.7	2354.0	2447.5	2522.4	2595.1
25°	2225.3	2237.8	2263.7	2260.6	2293.8	2303.2	2347.9	2431.0	2531.7	2630.5	2751.9
27.5°	2300.1	2301.0	2321.8	2315.7	2394.6	2398.8	2439.3	2502.6	2649.1	2762.3	2932.7
30°	2408.1	2414.3	2427.8	2446.6	2528.6	2524.5	2551.5	2635.7	2776.9	2929.6	3161.3
32.5°	2642.9	2629.4	2612.8	2615.8	2696.9	2719.7	2771.7	2871.5	3045.9	3230.9	3481.2
35°	3042.9	3034.5	2974.3	2903.6	2931.7	2958.7	3043.9	3235.0	3504.1	3938.4	4161.7
37.5°	3565.4	3590.3	3477.1	3326.5	3265.1	3271.4	3350.3	3609.1	4048.5	4869.2	5010.5
40°	4227.2	4189.8	4050.5	3849.0	3694.2	3662.0	3687.0	4018.3	4657.2	5689.9	5716.9
42.5°	4710.2	4715.4	4557.5	4411.0	4208.4	4148.2	4106.7	4420.4	5286.8	6322.5	6227.0
45°	5270.1	5310.7	5138.2	4987.6	4845.2	4782.9	4720.6	4912.8	5938.2	6825.3	6661.3
47.5°	5745.0	5752.2	5529.9	5417.7	5259.8	5231.8	5171.5	5356.4	6467.9	7220.1	6995.8
50°	6185.4	6261.3	5972.4	5812.5	5680.5	5662.8	5684.7	5859.2	6984.3	7562.0	7265.8
52.5°	6941.7	6825.3	6487.8	6186.4	6104.4	6105.4	6101.3	6385.9	7518.3	7849.7	7488.2
55°	7638.8	7412.3	7039.3	6700.7	6500.2	6502.3	6537.6	6885.6	7960.8	8127.1	7639.9
57.5°	8075.1	8199.8	7858.0	7350.0	6970.8	6977.0	6975.9	7353.1	8341.1	8371.2	7757.2
60°	8712.0	8860.4	8771.2	8389.9	7880.9	7768.6	7485.0	7880.9	8731.7	8604.9	7881.8
62.5°	9177.4	9287.5	9535.7	9322.8	9351.9	9363.3	8472.0	8482.4	9011.2	8798.1	7908.9
65°	9178.4	9176.3	9752.9	10018.8	10711.8	10832.3	10457.2	9313.4	9276.0	8829.3	7805.0
67.5°	8301.6	8355.6	8962.3	9950.2	11517.9	11608.3	11368.3	10627.6	9413.2	8864.7	7636.7
69°	7593.1	7688.6	8275.6	9634.5	11746.4	11779.7	11455.6	11090.9	9463.0	8834.5	7401.9
70°	7124.5	7128.7	7727.1	9244.9	11631.1	11668.5	11449.4	11169.9	9420.5	8749.4	7217.0
72.5°	5622.3	5681.6	6211.4	7853.9	11064.9	11101.3	11025.5	10962.1	9359.1	8372.3	6207.2
75°	4110.8	4150.3	4634.4	6152.2	9676.0	9895.2	10227.6	10582.9	8721.3	7199.4	4672.8
77.5°	2882.8	2934.8	3433.4	4669.7	7880.9	8182.1	8931.1	9263.5	7389.4	5639.0	2605.4
80°	1925.0	1989.4	2442.3	3478.2	5999.5	6306.9	7173.4	7316.7	5652.4	3382.6	516.3
82.5°	1224.8	1241.5	1601.9	2457.9	4462.0	4638.5	4952.3	4652.0	2996.1	770.9	152.7
85°	714.7	744.9	969.3	1542.7	2751.0	2952.5	3089.6	2308.4	724.1	103.9	82.0
87.5°	269.1	281.5	392.7	667.0	1287.1	1267.4	1230.0	779.1	129.8	47.8	37.4
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°	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4	2097.4
2.5°	2080.9	2099.6	2090.2	2086.1	2084.0	2094.4	2114.1	2108.9	2105.8	2140.0	2143.2
5°	2096.5	2122.4	2121.4	2125.5	2119.3	2131.8	2141.1	2144.2	2147.4	2183.7	2188.9
7.5°	2125.5	2137.0	2141.1	2157.7	2148.4	2168.1	2184.8	2168.1	2183.7	2209.7	2214.9
10°	2151.5	2169.2	2170.1	2196.1	2186.8	2205.5	2209.7	2209.7	2222.2	2252.3	2247.1
12.5°	2213.8	2214.9	2251.2	2253.3	2265.7	2264.7	2256.4	2232.6	2221.1	2261.6	2264.7
15°	2304.2	2315.7	2362.4	2359.2	2343.7	2335.4	2300.1	2240.8	2206.6	2200.4	2200.4
17.5°	2413.3	2416.4	2476.7	2464.2	2439.3	2385.2	2327.0	2222.2	2125.5	2094.4	2075.7
20°	2502.6	2528.6	2602.4	2559.8	2516.1	2428.9	2301.0	2156.7	2007.1	1931.2	1911.5
22.5°	2624.2	2675.1	2717.7	2655.4	2563.9	2437.1	2268.9	2061.1	1864.8	1746.3	1725.5
25°	2796.7	2825.7	2823.7	2715.6	2571.2	2411.2	2176.4	1926.1	1686.1	1556.3	1517.8
27.5°	2974.3	2995.1	2907.8	2761.4	2546.3	2337.5	2055.9	1749.5	1505.3	1389.0	1359.9
30°	3175.8	3155.0	2973.2	2741.5	2480.8	2207.6	1886.6	1555.2	1348.4	1245.6	1230.0
32.5°	3486.4	3379.4	3031.4	2695.9	2362.4	2028.9	1679.8	1416.0	1246.7	1126.1	1105.4
35°	4025.6	3799.1	3135.3	2655.4	2219.0	1828.4	1502.2	1319.4	1156.2	1013.9	986.9
37.5°	4722.7	4362.2	3330.6	2585.7	2049.6	1633.1	1389.0	1238.3	1087.7	929.7	899.6
40°	5406.2	4951.2	3593.5	2516.1	1889.7	1500.1	1324.6	1206.2	1060.6	898.6	866.4
42.5°	5904.9	5422.9	3880.2	2449.6	1735.0	1396.2	1292.3	1196.7	1061.7	903.8	873.7
45°	6281.0	5796.9	4171.0	2358.3	1554.1	1316.3	1262.2	1187.4	1060.6	909.0	871.7
47.5°	6612.4	6042.1	4371.6	2237.8	1382.7	1253.9	1225.9	1152.1	1034.7	887.2	855.0
50°	6846.1	6274.7	4502.5	2132.8	1250.8	1198.9	1175.0	1095.0	973.4	844.6	807.2
52.5°	7011.3	6425.4	4518.0	2106.9	1151.1	1151.1	1113.6	1030.5	913.2	783.3	746.9
55°	7184.9	6511.6	4450.5	2010.2	1046.1	1072.1	1048.2	986.9	873.7	740.8	717.9
57.5°	7177.5	6467.9	4315.5	1615.4	928.8	955.7	965.1	948.5	859.2	751.2	729.3
60°	7225.3	6423.3	4091.1	1123.0	817.6	859.2	898.6	898.6	813.5	685.6	662.8
62.5°	7200.4	6320.5	3612.1	791.6	729.3	795.8	845.6	807.2	724.1	616.0	601.5
65°	7038.4	6027.5	2709.3	672.2	698.2	759.4	805.1	746.0	660.7	556.9	546.5
67.5°	6742.2	5488.4	1440.9	628.5	684.6	734.5	759.4	695.0	610.8	505.9	494.5
69°	6365.1	4835.9	772.9	622.3	682.6	713.7	731.3	664.9	573.4	481.0	481.0
70°	5974.6	4319.6	499.7	625.4	674.2	701.2	711.6	644.1	551.7	455.0	450.9
72.5°	4681.2	2777.9	417.6	594.2	649.3	661.8	660.7	589.0	484.2	346.0	352.2
75°	2841.3	847.7	398.9	543.3	607.7	633.7	617.1	494.5	377.1	289.9	289.9
77.5°	772.9	297.1	378.2	495.5	554.8	562.1	556.9	460.2	336.6	240.0	242.1
80°	230.6	230.6	352.2	413.5	470.6	503.9	477.9	404.1	270.1	126.8	130.9
82.5°	133.0	149.6	295.1	290.8	380.2	379.2	379.2	288.8	182.8	83.1	67.5
85°	70.7	106.0	159.9	167.3	178.7	201.6	273.2	249.3	138.2	37.4	8.3
87.5°	40.5	60.2	43.7	31.2	65.4	119.5	176.6	169.4	115.3	1.1	0.0
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)