

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: P286981

Luminaire Tested: **USSL-C02-D-U-T4-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286981
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-AP-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21565.8 lumens
Efficiency: N/A
Efficacy: 141.0 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

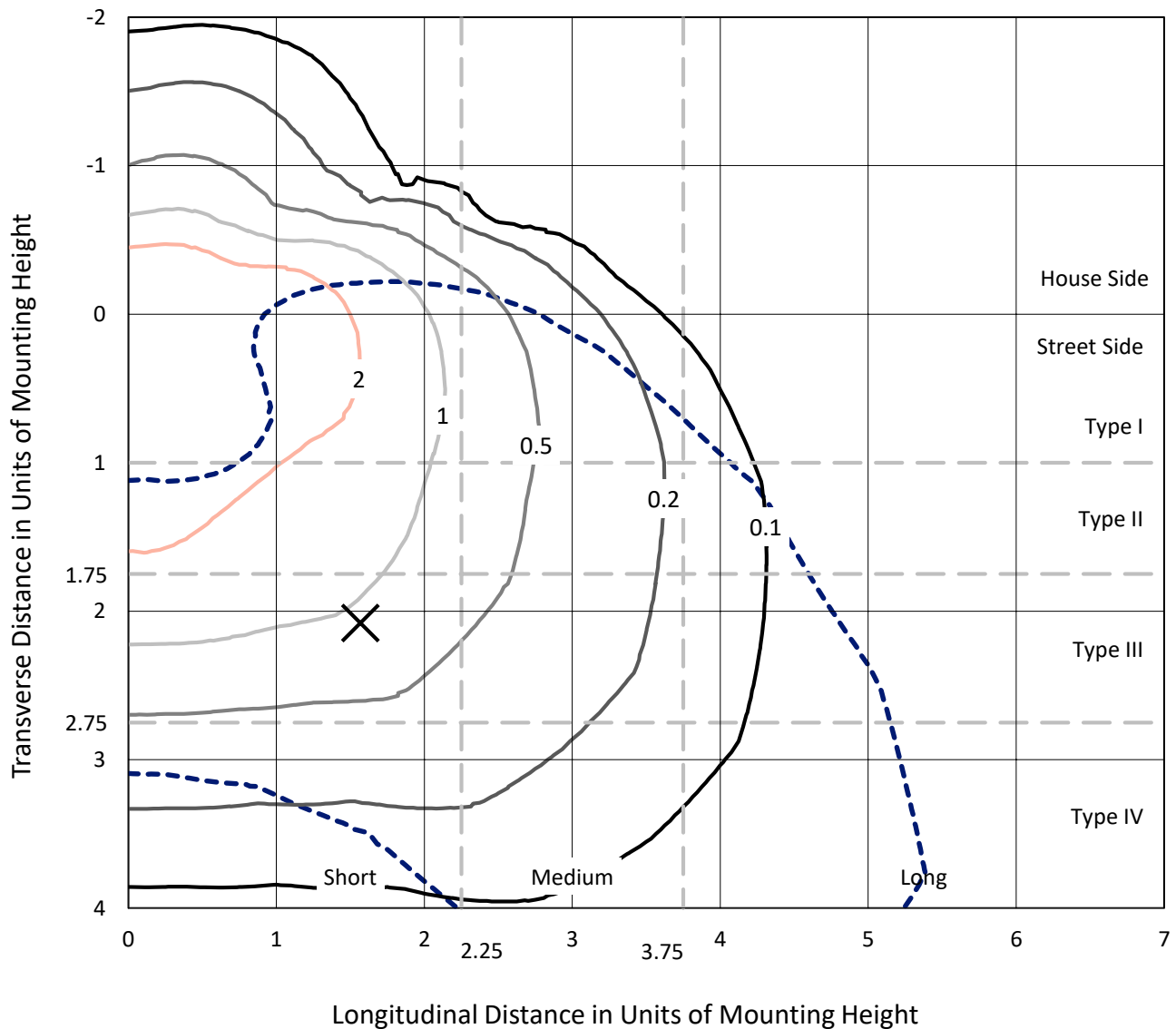


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

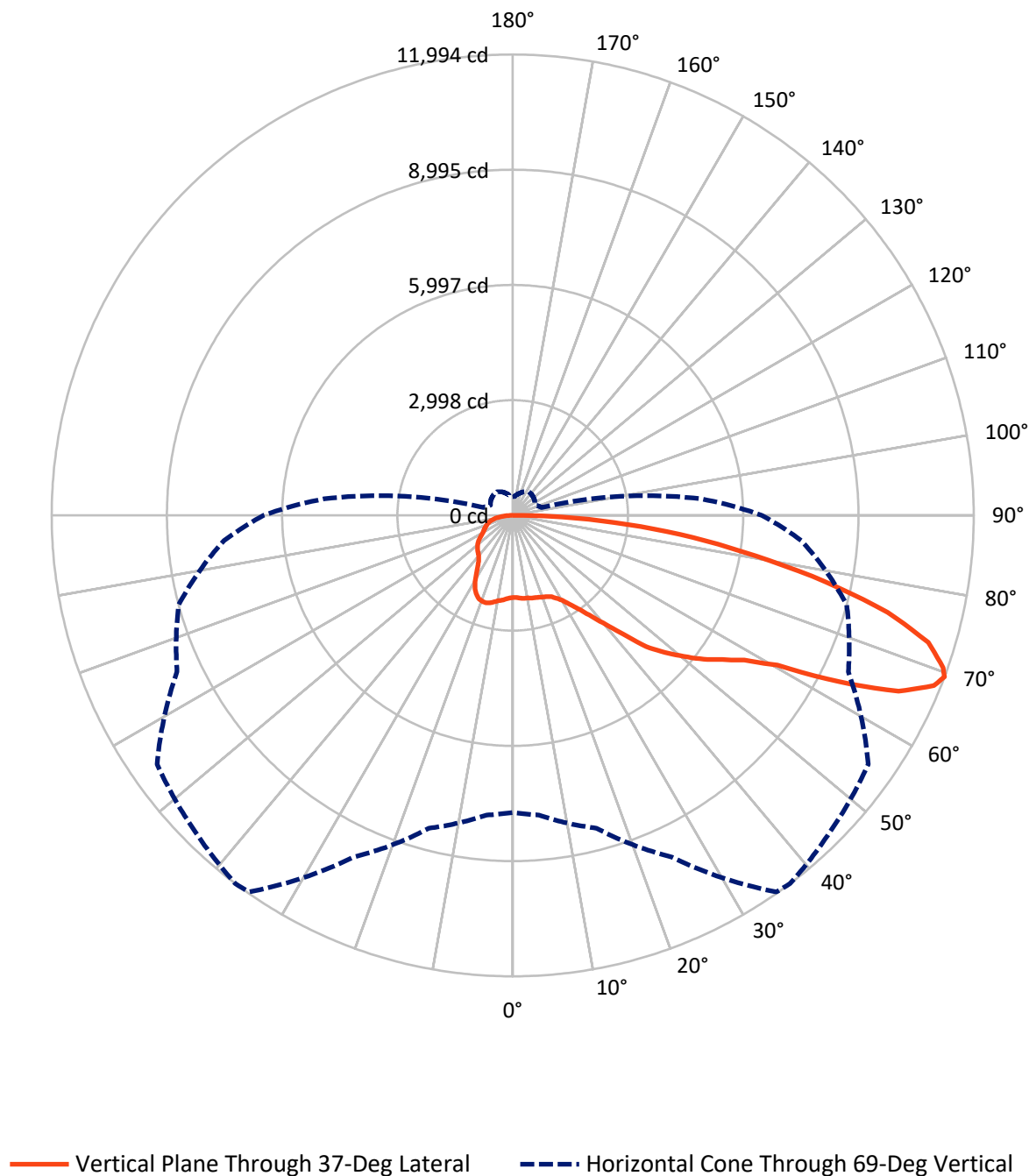


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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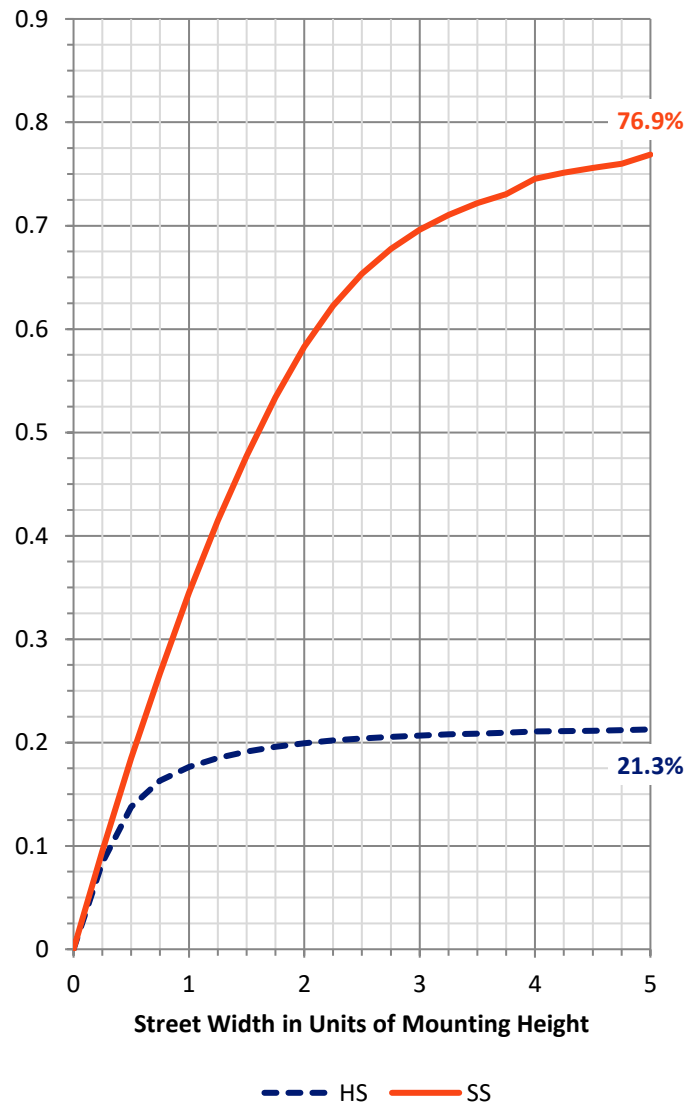
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4650.3	0.0	4650.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	16915.5	0.0	16915.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	21565.8	0.0	21565.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	1.0
10°-20°	651.6	3.0
20°-30°	1113.4	5.2
30°-40°	1765.0	8.2
40°-50°	2999.1	13.9
50°-60°	4252.2	19.7
60°-70°	5411.1	25.1
70°-80°	4152.7	19.3
80°-90°	1012.2	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°	21565.8	100.0
0°-180°	21565.8	100.0

Coefficient of Utilization



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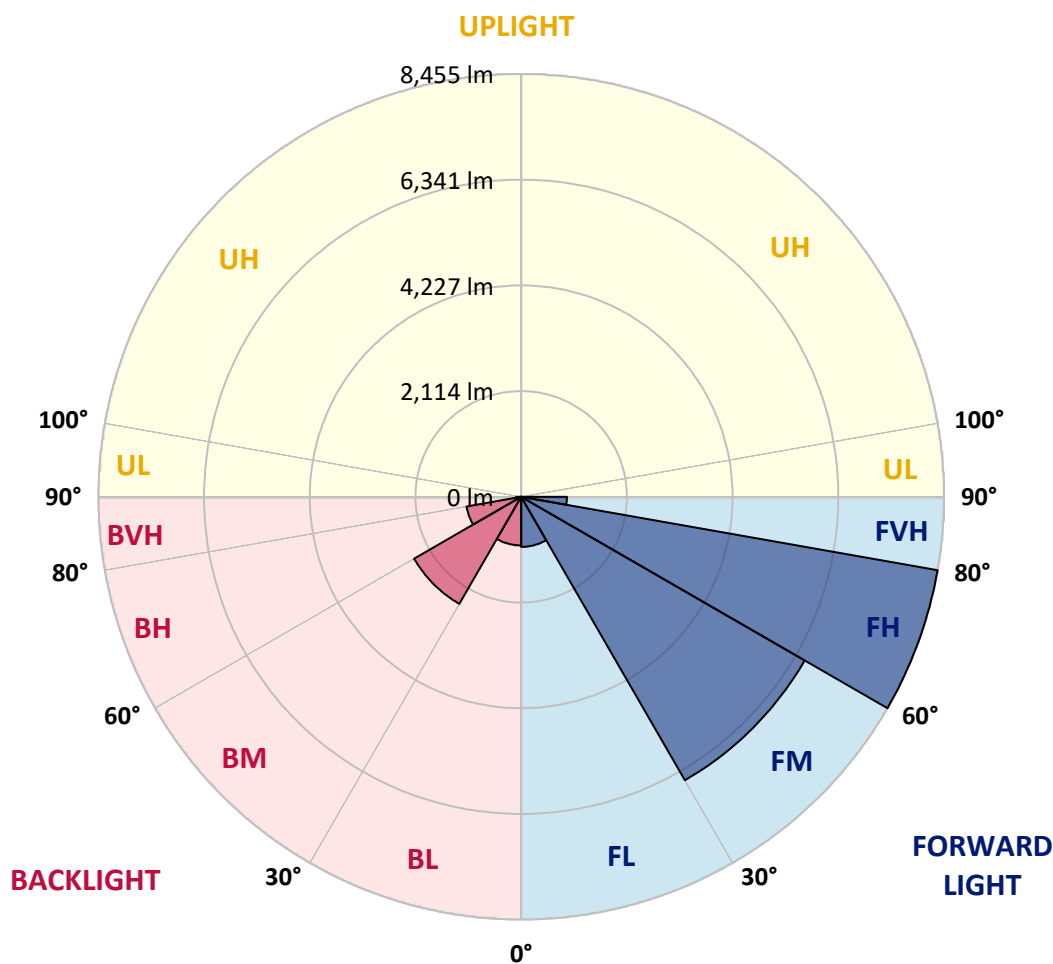
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1001.1	4.6			
FM	(30°-60°)	6544.9	30.3			
FH	(60°-80°)	8454.6	39.2			G4/12000
FVH	(80°-90°)	914.9	4.2			G5
BL	(0°-30°)	972.4	4.5	B2/1000		
BM	(30°-60°)	2471.4	11.5	B2/2500		
BH	(60°-80°)	1109.2	5.1	B3/2500		G3/2500
BVH	(80°-90°)	97.2	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°	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6
2.5°	2176.8	2165.2	2165.2	2140.9	2140.9	2138.8	2144.1	2131.4	2129.2	2127.1	2119.7
5°	2204.3	2200.1	2185.3	2167.3	2175.8	2164.1	2164.1	2147.3	2148.3	2146.2	2134.5
7.5°	2198.0	2205.3	2204.3	2183.2	2176.8	2180.0	2181.1	2182.1	2171.5	2170.5	2162.0
10°	2218.1	2210.6	2213.8	2181.1	2189.5	2182.1	2193.8	2192.7	2192.7	2192.7	2183.2
12.5°	2175.8	2184.2	2187.4	2192.7	2208.5	2208.5	2227.6	2235.0	2250.9	2261.4	2248.8
15°	2164.1	2156.7	2187.4	2184.2	2221.2	2218.1	2248.8	2290.0	2303.8	2332.3	2339.7
17.5°	2157.7	2172.6	2195.9	2194.8	2230.8	2238.2	2280.5	2327.0	2366.1	2413.7	2430.7
20°	2175.8	2175.8	2200.1	2210.6	2265.6	2265.6	2310.1	2368.2	2429.6	2499.5	2535.4
22.5°	2232.9	2235.0	2257.2	2245.6	2280.5	2293.2	2331.3	2396.9	2492.0	2568.1	2642.2
25°	2265.6	2278.4	2304.9	2301.7	2335.5	2345.0	2390.5	2475.1	2577.7	2678.2	2802.0
27.5°	2341.8	2342.9	2364.0	2357.7	2438.1	2442.3	2483.6	2548.1	2697.2	2812.6	2986.0
30°	2451.9	2458.2	2471.9	2491.0	2574.5	2570.3	2597.8	2683.5	2827.3	2982.8	3218.7
32.5°	2690.9	2677.1	2660.2	2663.4	2745.9	2769.2	2822.1	2923.6	3101.3	3289.6	3544.5
35°	3098.1	3089.6	3028.3	2956.4	2984.9	3012.4	3099.1	3293.7	3567.7	4009.9	4237.3
37.5°	3630.2	3655.5	3540.3	3386.9	3324.5	3330.8	3411.2	3674.6	4122.0	4957.6	5101.5
40°	4303.9	4265.9	4124.1	3918.9	3761.3	3728.5	3754.0	4091.3	4741.9	5793.2	5820.8
42.5°	4795.7	4801.0	4640.2	4491.1	4284.9	4223.6	4181.2	4500.7	5382.8	6437.4	6340.1
45°	5365.8	5407.2	5231.6	5078.2	4933.3	4869.8	4806.3	5002.1	6046.0	6949.3	6782.2
47.5°	5849.3	5856.7	5630.3	5516.1	5355.4	5326.7	5265.4	5453.7	6585.5	7351.3	7122.8
50°	6297.8	6375.0	6081.0	5918.1	5783.7	5765.8	5787.9	5965.6	7111.2	7699.2	7397.8
52.5°	7067.8	6949.3	6605.6	6298.8	6215.3	6216.3	6212.1	6502.0	7654.8	7992.3	7624.2
55°	7777.5	7546.9	7167.3	6822.4	6618.2	6620.3	6656.4	7010.7	8105.5	8274.6	7778.6
57.5°	8221.8	8348.7	8000.8	7483.5	7097.4	7103.8	7102.7	7486.7	8492.6	8523.3	7898.2
60°	8870.2	9021.4	8930.5	8542.3	8024.0	7909.7	7621.0	8024.0	8890.3	8761.2	8025.0
62.5°	9344.1	9456.2	9709.0	9492.1	9521.7	9533.4	8625.9	8636.4	9174.8	8958.0	8052.6
65°	9345.1	9343.0	9930.0	10200.8	10906.4	11029.0	10647.2	9482.6	9444.6	8989.8	7946.8
67.5°	8452.4	8507.4	9125.1	10131.1	11727.2	11819.2	11574.8	10820.6	9584.1	9025.7	7775.4
69°	7731.0	7828.3	8425.9	9809.5	11959.8	11993.7	11663.7	11292.4	9634.9	8994.9	7536.4
70°	7254.0	7258.2	7867.4	9412.8	11842.5	11880.5	11657.3	11372.8	9591.6	8908.2	7348.1
72.5°	5724.5	5784.7	6324.2	7996.5	11266.0	11303.0	11225.7	11161.3	9529.1	8524.4	6320.0
75°	4185.4	4225.6	4718.6	6263.9	9851.8	10075.0	10413.4	10775.2	8879.7	7330.2	4757.7
77.5°	2935.2	2988.1	3495.9	4754.5	8024.0	8330.7	9093.4	9431.8	7523.7	5741.4	2652.8
80°	1960.0	2025.6	2486.7	3541.3	6108.4	6421.5	7303.7	7449.6	5755.2	3444.0	525.7
82.5°	1247.1	1264.0	1631.1	2502.6	4542.9	4722.8	5042.3	4736.6	3050.5	784.9	155.5
85°	727.7	758.4	986.9	1570.8	2800.9	3006.1	3145.7	2350.3	737.3	105.8	83.5
87.5°	274.0	286.6	399.8	679.1	1310.6	1290.4	1252.4	793.3	132.2	48.6	38.1
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°	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6	2135.6
2.5°	2118.6	2137.7	2128.2	2123.9	2121.8	2132.4	2152.4	2147.3	2144.1	2178.9	2182.1
5°	2134.5	2160.9	2159.9	2164.1	2157.7	2170.5	2180.0	2183.2	2186.4	2223.4	2228.7
7.5°	2164.1	2175.8	2180.0	2197.0	2187.4	2207.5	2224.4	2207.5	2223.4	2249.8	2255.0
10°	2190.6	2208.5	2209.6	2236.1	2226.5	2245.6	2249.8	2249.8	2262.5	2293.2	2287.9
12.5°	2254.1	2255.0	2292.1	2294.3	2306.9	2305.9	2297.4	2273.1	2261.4	2302.7	2305.9
15°	2346.1	2357.7	2405.3	2402.2	2386.3	2377.8	2341.8	2281.5	2246.7	2240.3	2240.3
17.5°	2457.2	2460.3	2521.6	2509.0	2483.6	2428.5	2369.3	2262.5	2164.1	2132.4	2113.3
20°	2548.1	2574.5	2649.6	2606.3	2561.9	2473.0	2342.9	2195.9	2043.6	1966.3	1946.2
22.5°	2671.8	2723.6	2767.1	2703.6	2610.5	2481.4	2310.1	2098.6	1898.6	1778.1	1756.9
25°	2847.4	2877.1	2875.0	2765.0	2618.0	2455.0	2215.9	1961.0	1716.7	1584.4	1545.3
27.5°	3028.3	3049.4	2960.6	2811.5	2592.5	2379.9	2093.3	1781.3	1532.6	1414.2	1384.5
30°	3233.5	3212.3	3027.3	2791.4	2525.8	2247.7	1920.9	1583.4	1373.0	1268.3	1252.4
32.5°	3549.8	3440.9	3086.4	2744.8	2405.3	2065.7	1710.4	1441.7	1269.3	1146.6	1125.4
35°	4098.7	3868.1	3192.2	2703.6	2259.3	1861.6	1529.4	1343.3	1177.2	1032.3	1004.9
37.5°	4808.4	4441.4	3391.2	2632.7	2086.9	1662.8	1414.2	1260.9	1107.5	946.7	916.0
40°	5504.5	5041.2	3658.7	2561.9	1924.0	1527.4	1348.6	1228.0	1079.9	914.9	882.2
42.5°	6012.2	5521.3	3950.7	2494.2	1766.4	1421.6	1315.9	1218.5	1081.0	920.2	889.6
45°	6395.1	5902.2	4246.8	2401.1	1582.3	1340.1	1285.1	1209.0	1079.9	925.5	887.5
47.5°	6732.5	6151.8	4450.9	2278.4	1407.9	1276.6	1248.1	1173.0	1053.5	903.4	870.5
50°	6970.5	6388.8	4584.3	2171.5	1273.5	1220.6	1196.3	1114.8	991.1	859.9	821.8
52.5°	7138.6	6542.1	4600.1	2145.1	1171.9	1171.9	1133.9	1049.3	929.7	797.6	760.5
55°	7315.3	6629.9	4531.4	2046.8	1065.1	1091.6	1067.2	1004.9	889.6	754.1	730.9
57.5°	7307.9	6585.5	4393.8	1644.8	945.6	973.1	982.6	965.7	874.7	764.7	742.6
60°	7356.6	6540.0	4165.4	1143.4	832.4	874.7	914.9	914.9	828.2	698.2	674.8
62.5°	7331.2	6435.3	3677.7	805.9	742.6	810.2	861.0	821.8	737.3	627.2	612.4
65°	7166.2	6137.0	2758.6	684.4	710.8	773.2	819.7	759.4	672.7	566.9	556.3
67.5°	6864.8	5588.0	1467.1	640.0	697.1	747.9	773.2	707.6	621.9	515.1	503.5
69°	6480.8	4923.8	787.0	633.6	695.0	726.7	744.7	677.0	583.9	489.8	489.8
70°	6083.1	4398.1	508.8	636.8	686.5	713.9	724.5	655.8	561.6	463.3	459.0
72.5°	4766.2	2828.3	425.2	605.0	661.1	673.8	672.7	599.7	492.9	352.2	358.6
75°	2892.9	863.1	406.2	553.2	618.8	645.3	628.3	503.5	384.0	295.1	295.1
77.5°	787.0	302.5	385.1	504.5	564.8	572.2	566.9	468.6	342.7	244.3	246.4
80°	234.8	234.8	358.6	421.0	479.2	513.0	486.6	411.5	275.0	129.1	133.2
82.5°	135.3	152.3	300.4	296.1	387.2	386.1	386.1	294.0	186.1	84.6	68.8
85°	72.0	107.9	162.9	170.3	181.9	205.2	278.2	253.8	140.6	38.1	8.5
87.5°	41.2	61.4	44.4	31.7	66.7	121.7	179.9	172.4	117.4	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)