

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-BZ-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-BZ-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20347 lumens
Efficiency: N/A
Efficacy: 133.0 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

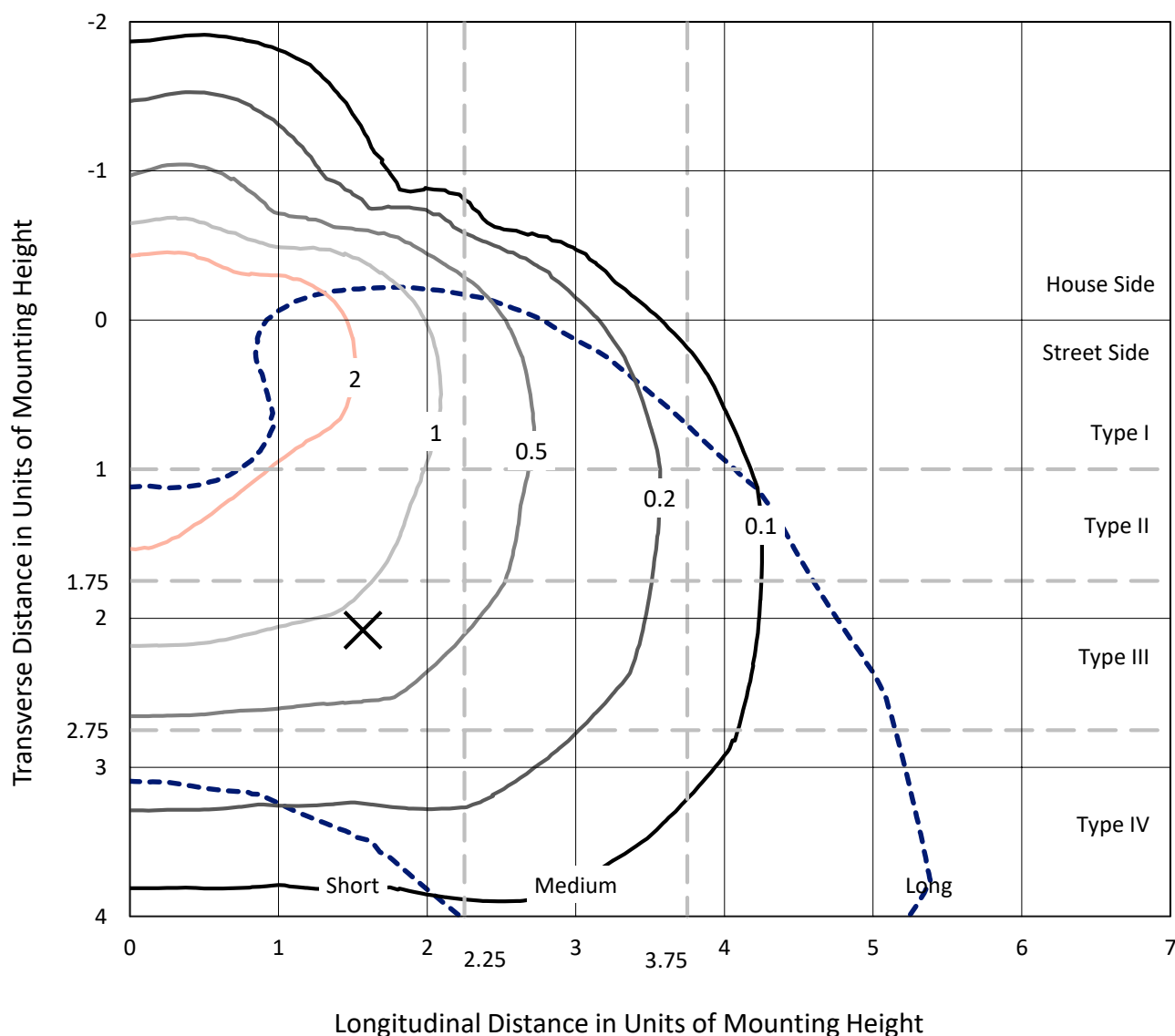


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

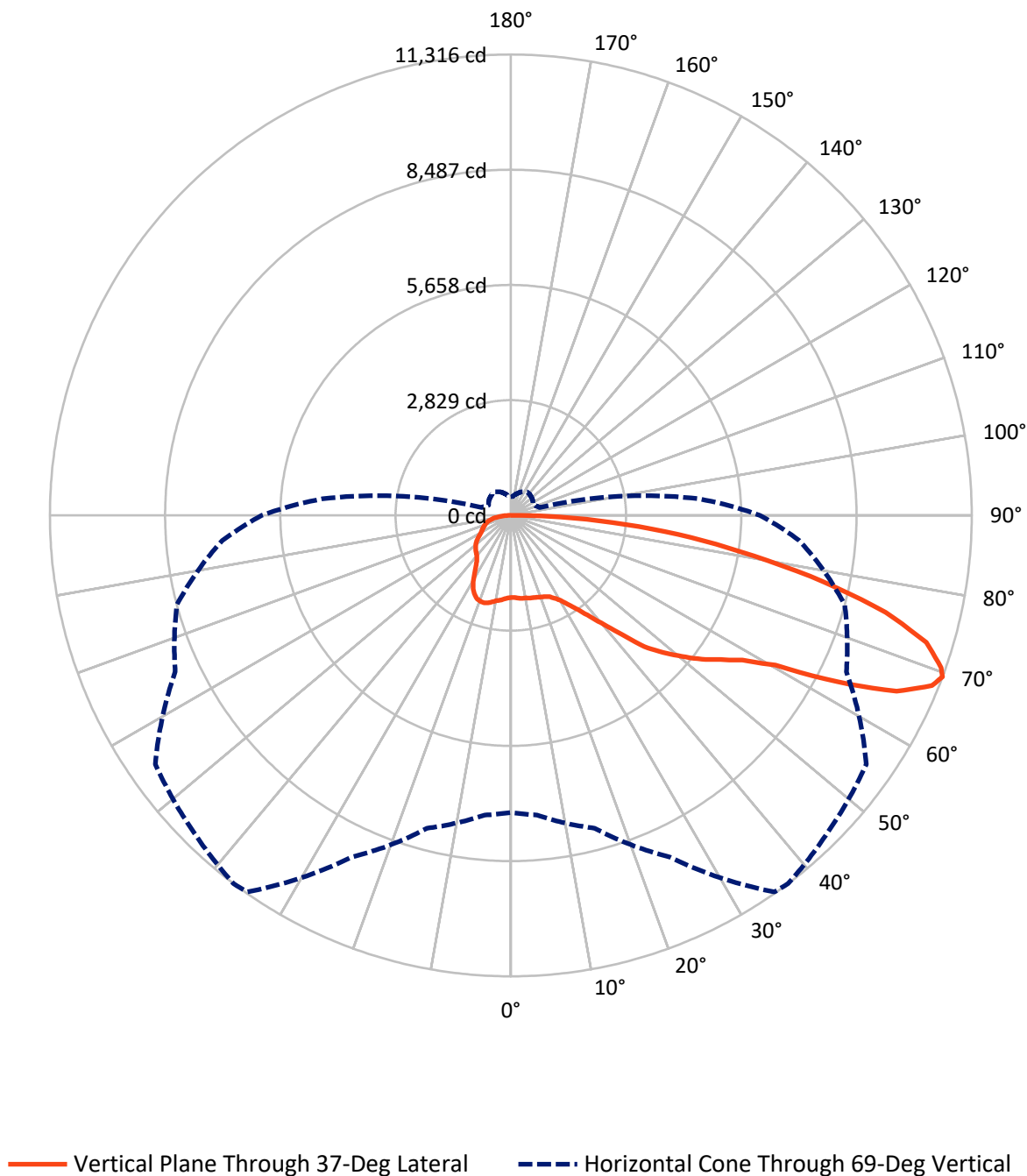


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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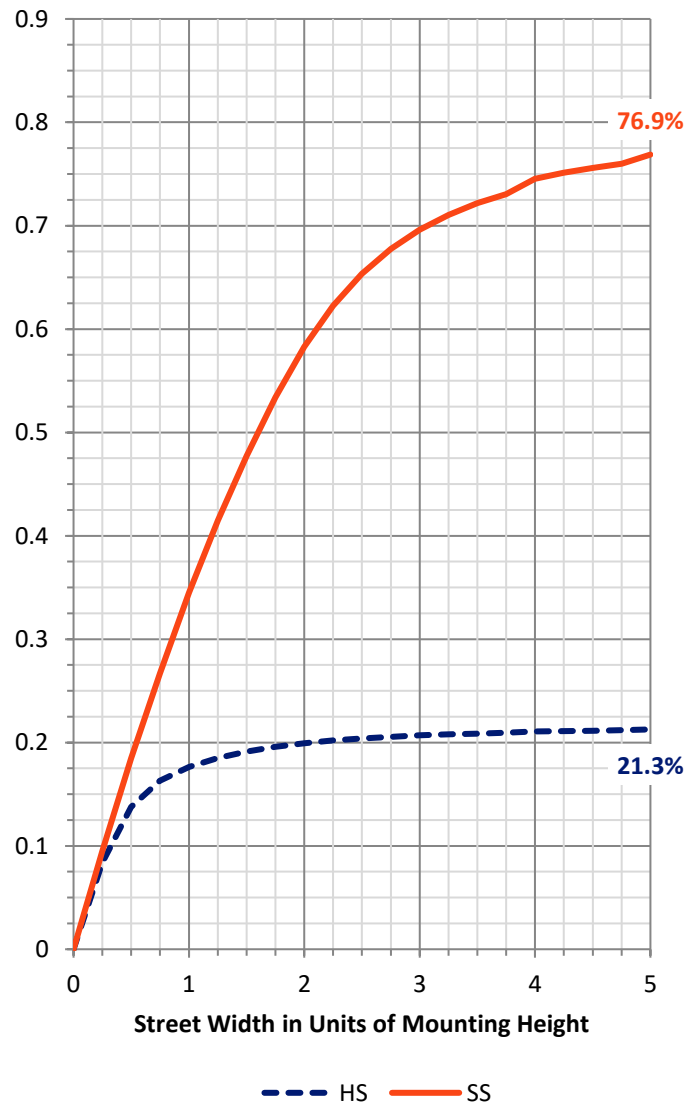
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4387.5	0.0	4387.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15959.5	0.0	15959.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	20347.0	0.0	20347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	1.0
10°-20°	614.8	3.0
20°-30°	1050.4	5.2
30°-40°	1665.3	8.2
40°-50°	2829.6	13.9
50°-60°	4011.8	19.7
60°-70°	5105.3	25.1
70°-80°	3918.0	19.3
80°-90°	955.0	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°	20347.0	100.0
0°-180°	20347.0	100.0

Coefficient of Utilization



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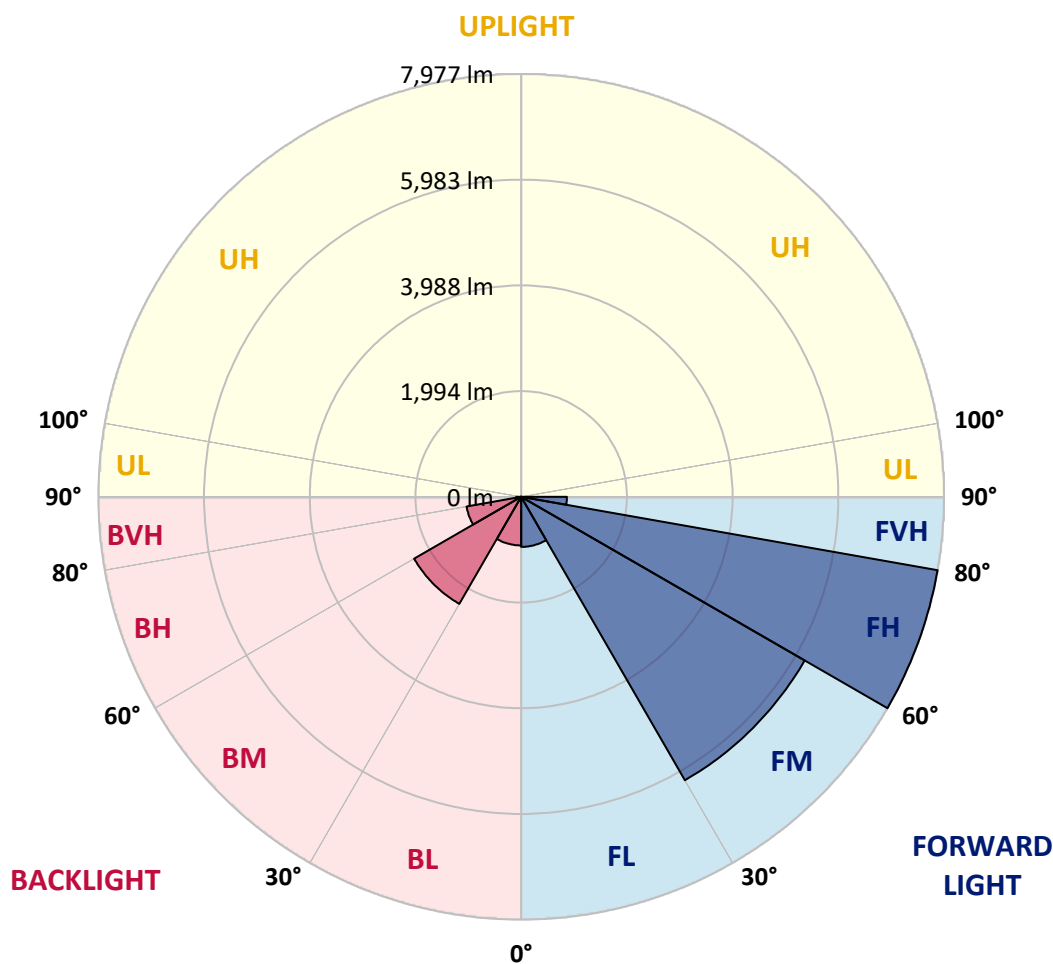
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	944.5	4.6			
FM	(30°-60°)	6175.0	30.3			
FH	(60°-80°)	7976.8	39.2			G4/12000
FVH	(80°-90°)	863.2	4.2			G5
BL	(0°-30°)	917.5	4.5	B2/1000		
BM	(30°-60°)	2331.8	11.5	B2/2500		
BH	(60°-80°)	1046.5	5.1	B3/2500		G3/2500
BVH	(80°-90°)	91.8	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°	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9
2.5°	2053.8	2042.8	2042.8	2019.9	2019.9	2017.9	2022.9	2010.9	2008.9	2006.9	1999.9
5°	2079.7	2075.8	2061.8	2044.8	2052.8	2041.8	2041.8	2025.9	2026.9	2024.9	2013.9
7.5°	2073.8	2080.7	2079.7	2059.8	2053.8	2056.8	2057.8	2058.8	2048.8	2047.8	2039.8
10°	2092.7	2085.7	2088.7	2057.8	2065.8	2058.8	2069.8	2068.8	2068.8	2068.8	2059.8
12.5°	2052.8	2060.8	2063.8	2068.8	2083.7	2083.7	2101.7	2108.7	2123.7	2133.6	2121.7
15°	2041.8	2034.8	2063.8	2060.8	2095.7	2092.7	2121.7	2160.6	2173.6	2200.5	2207.5
17.5°	2035.8	2049.8	2071.8	2070.8	2104.7	2111.7	2151.6	2195.5	2232.4	2277.3	2293.3
20°	2052.8	2052.8	2075.8	2085.7	2137.6	2137.6	2179.5	2234.4	2292.3	2358.2	2392.1
22.5°	2106.7	2108.7	2129.6	2118.7	2151.6	2163.6	2199.5	2261.4	2351.2	2423.0	2492.9
25°	2137.6	2149.6	2174.6	2171.6	2203.5	2212.5	2255.4	2335.2	2432.0	2526.8	2643.6
27.5°	2209.5	2210.5	2230.4	2224.5	2300.3	2304.3	2343.2	2404.1	2544.8	2653.6	2817.2
30°	2313.3	2319.3	2332.2	2350.2	2429.0	2425.0	2451.0	2531.8	2667.5	2814.2	3036.8
32.5°	2538.8	2525.8	2509.9	2512.9	2590.7	2612.7	2662.6	2758.4	2926.0	3103.7	3344.2
35°	2923.0	2915.0	2857.2	2789.3	2816.2	2842.2	2924.0	3107.6	3366.1	3783.3	3997.8
37.5°	3425.0	3448.9	3340.2	3195.5	3136.6	3142.6	3218.4	3466.9	3889.0	4677.4	4813.2
40°	4060.7	4024.8	3891.0	3697.4	3548.7	3517.8	3541.8	3860.1	4473.9	5465.8	5491.8
42.5°	4524.7	4529.7	4378.0	4237.3	4042.7	3984.9	3944.9	4246.3	5078.6	6073.6	5981.8
45°	5062.6	5101.6	4935.9	4791.2	4654.5	4594.6	4534.7	4719.4	5704.3	6556.6	6398.9
47.5°	5518.7	5525.7	5312.1	5204.4	5052.7	5025.7	4967.8	5145.5	6213.3	6935.8	6720.3
50°	5941.9	6014.7	5737.3	5583.6	5456.8	5439.9	5460.8	5628.5	6709.3	7264.1	6979.7
52.5°	6668.4	6556.6	6232.3	5942.8	5864.0	5865.0	5861.0	6134.5	7222.2	7540.6	7193.3
55°	7338.0	7120.4	6762.2	6436.8	6244.2	6246.2	6280.2	6614.5	7647.4	7807.0	7339.0
57.5°	7757.1	7876.9	7548.6	7060.6	6696.3	6702.3	6701.3	7063.6	8012.6	8041.6	7451.8
60°	8368.9	8511.6	8425.8	8059.5	7570.5	7462.7	7190.3	7570.5	8387.9	8266.1	7571.5
62.5°	8816.0	8921.8	9160.3	8955.7	8983.6	8994.6	8138.4	8148.3	8656.3	8451.7	7597.5
65°	8817.0	8815.0	9368.8	9624.3	10290.0	10405.7	10045.5	8946.7	8910.8	8481.7	7497.7
67.5°	7974.7	8026.6	8609.4	9558.5	11064.4	11151.2	10920.7	10209.1	9042.5	8515.6	7336.0
69°	7294.1	7385.9	7949.7	9255.1	11283.9	11315.9	11004.5	10654.2	9090.4	8486.6	7110.5
70°	6844.0	6848.0	7422.8	8880.8	11173.2	11209.1	10998.5	10730.1	9049.5	8404.8	6932.8
72.5°	5401.0	5457.8	5966.8	7544.6	10629.3	10664.2	10591.3	10530.5	8990.6	8042.6	5962.8
75°	3948.9	3986.8	4451.9	5909.9	9295.0	9505.6	9824.9	10166.2	8377.9	6915.9	4488.8
77.5°	2769.3	2819.2	3298.3	4485.8	7570.5	7859.9	8579.5	8898.8	7098.5	5416.9	2502.9
80°	1849.2	1911.1	2346.2	3341.2	5763.2	6058.6	6890.9	7028.6	5429.9	3249.4	496.0
82.5°	1176.6	1192.6	1538.9	2361.2	4286.2	4455.9	4757.3	4468.9	2878.1	740.5	146.7
85°	686.6	715.5	931.1	1482.0	2642.6	2836.2	2967.9	2217.5	695.6	99.8	78.8
87.5°	258.5	270.4	377.2	640.7	1236.5	1217.5	1181.6	748.5	124.7	45.9	35.9
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°	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9
2.5°	1998.9	2016.9	2007.9	2003.9	2001.9	2011.9	2030.8	2025.9	2022.9	2055.8	2058.8
5°	2013.9	2038.8	2037.8	2041.8	2035.8	2047.8	2056.8	2059.8	2062.8	2097.7	2102.7
7.5°	2041.8	2052.8	2056.8	2072.8	2063.8	2082.7	2098.7	2082.7	2097.7	2122.7	2127.6
10°	2066.8	2083.7	2084.7	2109.7	2100.7	2118.7	2122.7	2122.7	2134.6	2163.6	2158.6
12.5°	2126.7	2127.6	2162.6	2164.6	2176.5	2175.6	2167.6	2144.6	2133.6	2172.6	2175.6
15°	2213.5	2224.5	2269.4	2266.4	2251.4	2243.4	2209.5	2152.6	2119.7	2113.7	2113.7
17.5°	2318.3	2321.3	2379.1	2367.2	2343.2	2291.3	2235.4	2134.6	2041.8	2011.9	1993.9
20°	2404.1	2429.0	2499.9	2459.0	2417.1	2333.2	2210.5	2071.8	1928.1	1855.2	1836.2
22.5°	2520.8	2569.7	2610.7	2550.8	2463.0	2341.2	2179.5	1980.0	1791.3	1677.6	1657.6
25°	2686.5	2714.5	2712.5	2608.7	2470.0	2316.3	2090.7	1850.2	1619.7	1494.9	1458.0
27.5°	2857.2	2877.1	2793.3	2652.6	2446.0	2245.4	1975.0	1680.6	1446.0	1334.3	1306.3
30°	3050.8	3030.8	2856.2	2633.6	2383.1	2120.7	1812.3	1493.9	1295.4	1196.6	1181.6
32.5°	3349.2	3246.4	2912.0	2589.7	2269.4	1949.0	1613.7	1360.2	1197.6	1081.8	1061.8
35°	3867.1	3649.5	3011.8	2550.8	2131.6	1756.4	1443.0	1267.4	1110.7	974.0	948.1
37.5°	4536.7	4190.4	3199.5	2483.9	1969.0	1568.8	1334.3	1189.6	1044.9	893.2	864.2
40°	5193.4	4756.3	3451.9	2417.1	1815.3	1441.1	1272.4	1158.6	1018.9	863.2	832.3
42.5°	5672.4	5209.3	3727.4	2353.2	1666.6	1341.3	1241.5	1149.6	1019.9	868.2	839.3
45°	6033.7	5568.6	4006.8	2265.4	1492.9	1264.4	1212.5	1140.7	1018.9	873.2	837.3
47.5°	6352.0	5804.1	4199.4	2149.6	1328.3	1204.5	1177.6	1106.7	994.0	852.3	821.3
50°	6576.6	6027.7	4325.2	2048.8	1201.5	1151.6	1128.7	1051.8	935.1	811.3	775.4
52.5°	6735.2	6172.4	4340.1	2023.9	1105.7	1105.7	1069.8	990.0	877.2	752.5	717.5
55°	6901.9	6255.2	4275.3	1931.1	1004.9	1029.9	1006.9	948.1	839.3	711.5	689.6
57.5°	6894.9	6213.3	4145.5	1551.8	892.2	918.1	927.1	911.1	825.3	721.5	700.6
60°	6940.8	6170.4	3930.0	1078.8	785.4	825.3	863.2	863.2	781.4	658.7	636.7
62.5°	6916.9	6071.6	3469.9	760.4	700.6	764.4	812.3	775.4	695.6	591.8	577.8
65°	6761.2	5790.2	2602.7	645.7	670.6	729.5	773.4	716.5	634.7	534.9	524.9
67.5°	6476.8	5272.2	1384.2	603.8	657.7	705.6	729.5	667.6	586.8	486.0	475.0
69°	6114.5	4645.5	742.5	597.8	655.7	685.6	702.6	638.7	550.9	462.1	462.1
70°	5739.3	4149.5	480.0	600.8	647.7	673.6	683.6	618.7	529.9	437.1	433.1
72.5°	4496.8	2668.5	401.2	570.8	623.7	635.7	634.7	565.8	465.0	332.3	338.3
75°	2729.4	814.3	383.2	521.9	583.8	608.8	592.8	475.0	362.3	278.4	278.4
77.5°	742.5	285.4	363.3	476.0	532.9	539.9	534.9	442.1	323.3	230.5	232.5
80°	221.5	221.5	338.3	397.2	452.1	484.0	459.1	388.2	259.5	121.8	125.7
82.5°	127.7	143.7	283.4	279.4	365.3	364.3	364.3	277.4	175.6	79.8	64.9
85°	67.9	101.8	153.7	160.7	171.6	193.6	262.5	239.5	132.7	35.9	8.0
87.5°	38.9	57.9	41.9	29.9	62.9	114.8	169.7	162.7	110.8	1.0	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)