

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: P286973

Luminaire Tested: **USSL-C02-D-U-T4-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286973
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-7030
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20796.3 lumens
Efficiency: N/A
Efficacy: 135.9 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

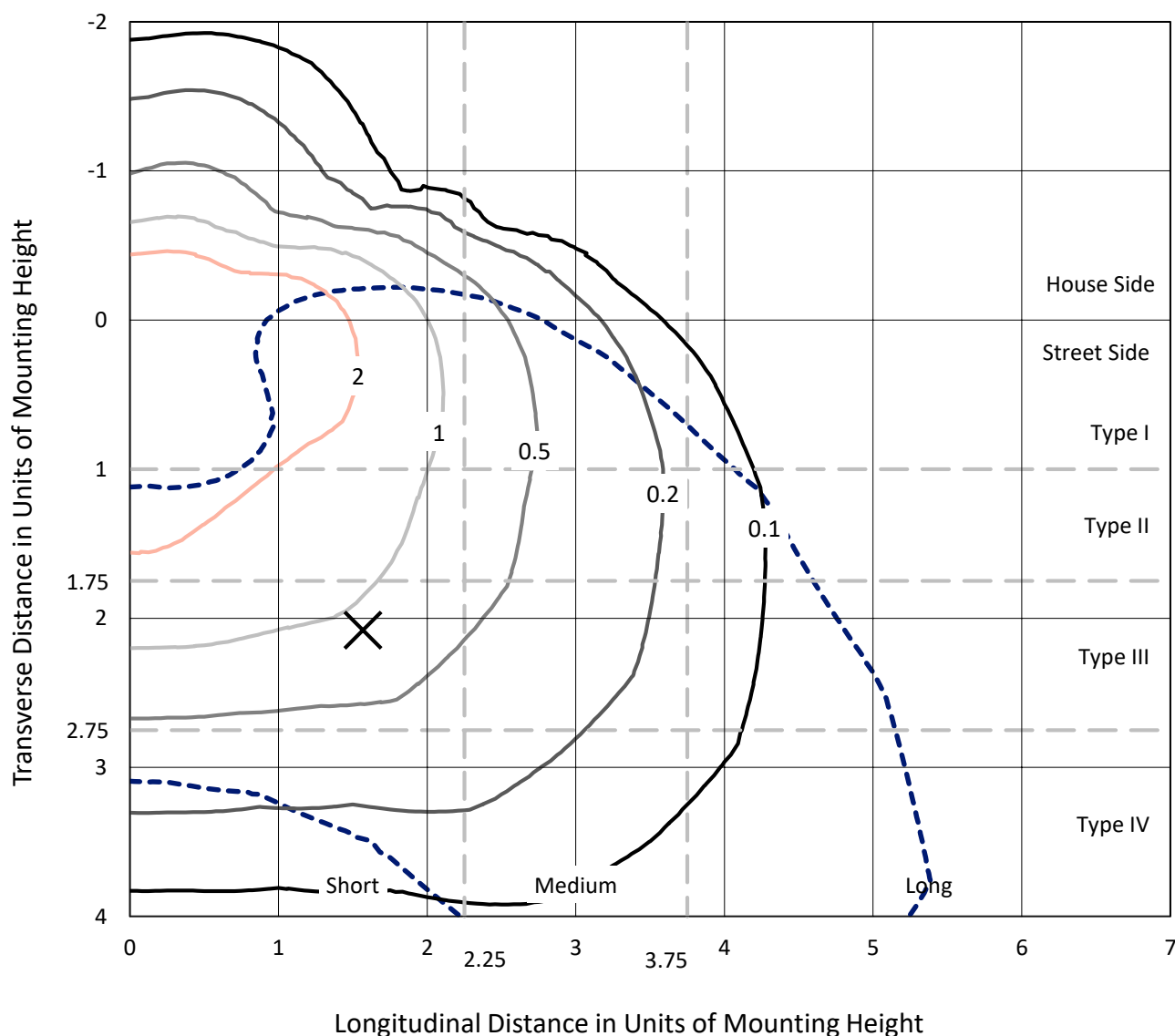


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

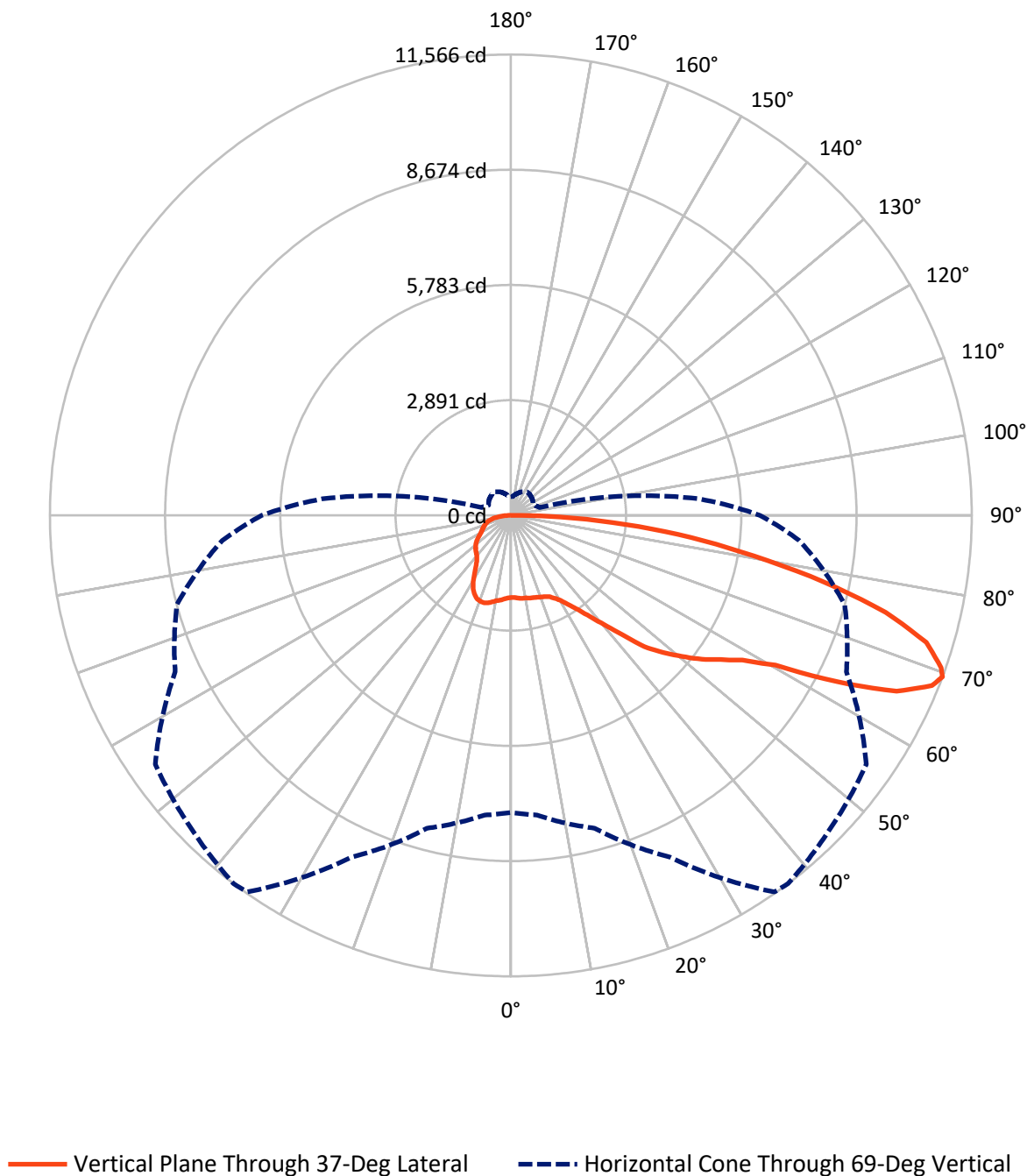


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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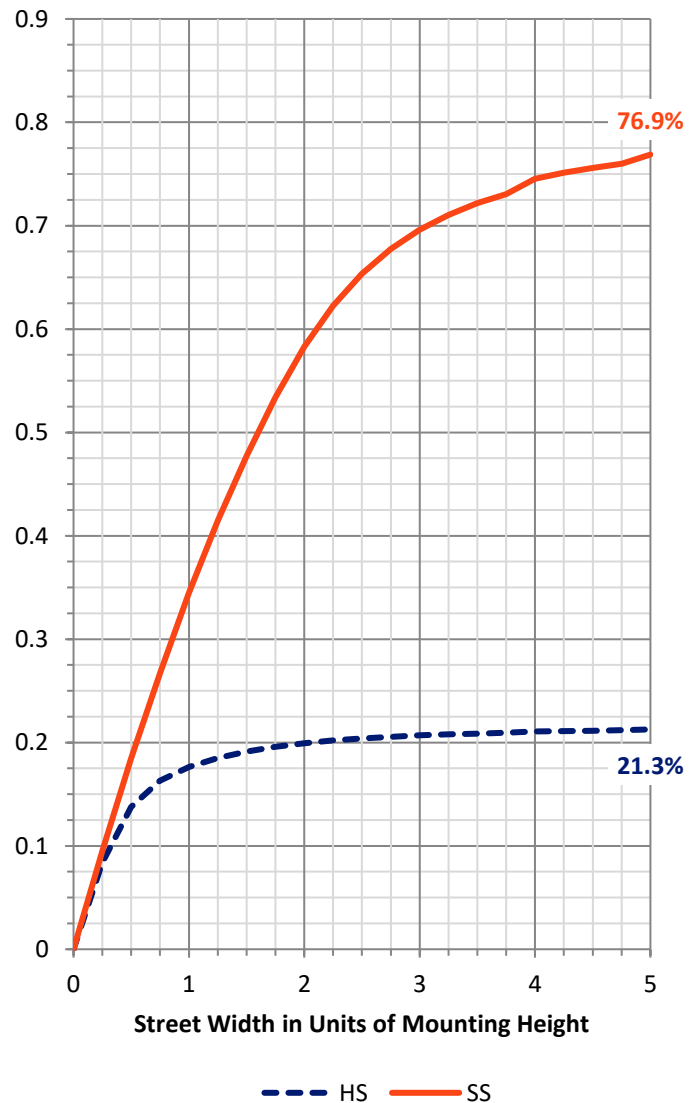
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4484.3	0.0	4484.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	16312.0	0.0	16312.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	20796.3	0.0	20796.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	1.0
10°-20°	628.4	3.0
20°-30°	1073.6	5.2
30°-40°	1702.0	8.2
40°-50°	2892.1	13.9
50°-60°	4100.4	19.7
60°-70°	5218.0	25.1
70°-80°	4004.5	19.3
80°-90°	976.1	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°	20796.3	100.0
0°-180°	20796.3	100.0

Coefficient of Utilization



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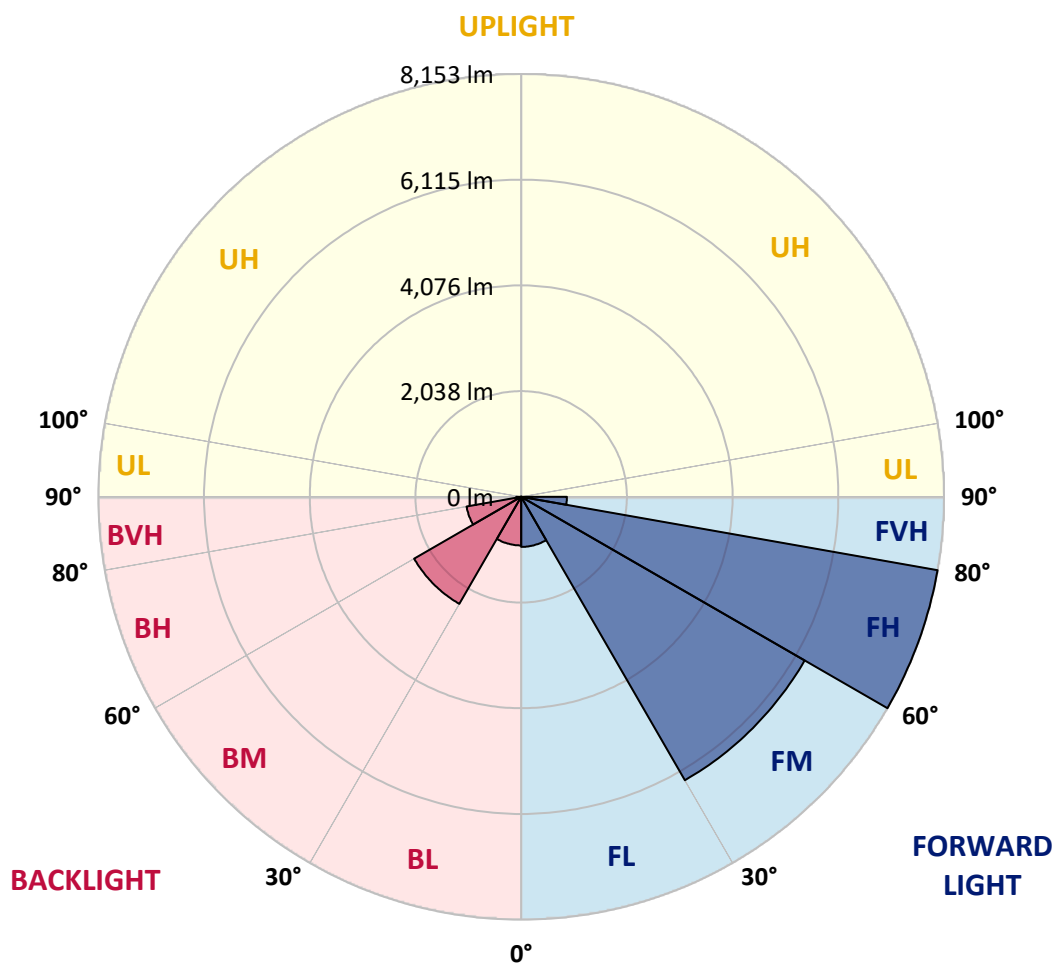
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	965.3	4.6			
FM	(30°-60°)	6311.3	30.3			
FH	(60°-80°)	8153.0	39.2			G4/12000
FVH	(80°-90°)	882.3	4.2			G5
BL	(0°-30°)	937.7	4.5	B2/1000		
BM	(30°-60°)	2383.2	11.5	B2/2500		
BH	(60°-80°)	1069.6	5.1	B3/2500		G3/2500
BVH	(80°-90°)	93.8	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°	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4
2.5°	2099.1	2087.9	2087.9	2064.5	2064.5	2062.5	2067.5	2055.3	2053.2	2051.2	2044.1
5°	2125.6	2121.6	2107.3	2090.0	2098.2	2086.9	2086.9	2070.6	2071.6	2069.6	2058.3
7.5°	2119.6	2126.7	2125.6	2105.3	2099.1	2102.2	2103.3	2104.2	2094.0	2093.0	2084.8
10°	2139.0	2131.8	2134.9	2103.3	2111.4	2104.2	2115.5	2114.5	2114.5	2114.5	2105.3
12.5°	2098.2	2106.3	2109.3	2114.5	2129.8	2129.8	2148.1	2155.2	2170.6	2180.7	2168.6
15°	2086.9	2079.7	2109.3	2106.3	2142.0	2139.0	2168.6	2208.3	2221.6	2249.1	2256.2
17.5°	2080.8	2095.1	2117.5	2116.5	2151.2	2158.3	2199.1	2244.0	2281.8	2327.6	2344.0
20°	2098.2	2098.2	2121.6	2131.8	2184.9	2184.9	2227.7	2283.8	2342.9	2410.2	2445.0
22.5°	2153.2	2155.2	2176.7	2165.5	2199.1	2211.4	2248.0	2311.3	2403.1	2476.6	2548.0
25°	2184.9	2197.1	2222.6	2219.5	2252.2	2261.3	2305.2	2386.8	2485.8	2582.7	2702.0
27.5°	2258.2	2259.3	2279.7	2273.6	2351.1	2355.2	2395.0	2457.2	2601.0	2712.2	2879.4
30°	2364.3	2370.5	2383.7	2402.1	2482.7	2478.6	2505.1	2587.7	2726.5	2876.4	3103.8
32.5°	2594.8	2581.6	2565.3	2568.3	2647.9	2670.3	2721.4	2819.2	2990.6	3172.2	3418.0
35°	2987.5	2979.4	2920.2	2850.9	2878.5	2905.0	2988.6	3176.3	3440.4	3866.8	4086.1
37.5°	3500.6	3525.1	3413.9	3266.0	3205.9	3211.9	3289.5	3543.5	3974.9	4780.7	4919.4
40°	4150.4	4113.7	3977.0	3779.1	3627.1	3595.5	3620.0	3945.4	4572.6	5586.5	5613.0
42.5°	4624.7	4629.7	4474.7	4330.9	4132.0	4072.9	4032.1	4340.1	5190.8	6207.7	6113.8
45°	5174.4	5214.2	5044.9	4896.9	4757.3	4696.1	4634.8	4823.6	5830.3	6701.3	6540.2
47.5°	5640.6	5647.7	5429.4	5319.3	5164.3	5136.7	5077.6	5259.1	6350.5	7088.9	6868.7
50°	6073.0	6147.5	5864.0	5706.9	5577.3	5560.0	5581.4	5752.8	6857.4	7424.6	7133.9
52.5°	6815.6	6701.3	6369.9	6074.1	5993.5	5994.5	5990.4	6269.9	7381.7	7707.1	7352.1
55°	7500.1	7277.7	6911.5	6579.0	6382.1	6384.2	6418.9	6760.6	7816.2	7979.5	7501.0
57.5°	7928.5	8050.8	7715.2	7216.4	6844.2	6850.3	6849.3	7219.5	8189.5	8219.1	7616.3
60°	8553.7	8699.6	8611.8	8237.5	7737.7	7627.6	7349.0	7737.7	8573.1	8448.7	7738.8
62.5°	9010.6	9118.7	9362.5	9153.4	9182.0	9193.3	8318.1	8328.3	8847.4	8638.4	7765.3
65°	9011.7	9009.7	9575.8	9836.8	10517.2	10635.5	10267.3	9144.3	9107.5	8668.9	7663.2
67.5°	8150.8	8203.8	8799.5	9769.5	11308.7	11397.4	11161.8	10434.6	9242.2	8703.6	7497.9
69°	7455.1	7549.0	8125.3	9459.4	11533.1	11565.7	11247.6	10889.5	9291.2	8674.0	7267.5
70°	6995.1	6999.3	7586.8	9077.0	11419.9	11456.6	11241.4	10967.0	9249.3	8590.4	7086.0
72.5°	5520.2	5578.4	6098.6	7711.2	10864.0	10899.7	10825.2	10763.0	9189.1	8220.2	6094.5
75°	4036.1	4074.9	4550.3	6040.4	9500.2	9715.5	10041.9	10390.7	8562.8	7068.6	4588.0
77.5°	2830.5	2881.4	3371.1	4584.9	7737.7	8033.5	8768.9	9095.3	7255.2	5536.5	2558.2
80°	1890.0	1953.3	2398.0	3415.0	5890.5	6192.4	7043.0	7183.8	5549.8	3321.1	507.0
82.5°	1202.6	1218.9	1572.8	2413.3	4380.9	4554.3	4862.3	4567.5	2941.6	756.9	150.0
85°	701.8	731.3	951.7	1514.7	2700.9	2898.8	3033.4	2266.4	711.0	102.0	80.6
87.5°	264.1	276.4	385.6	654.8	1263.8	1244.4	1207.7	765.0	127.5	47.0	36.7
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°	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4
2.5°	2043.1	2061.4	2052.3	2048.2	2046.1	2056.3	2075.7	2070.6	2067.5	2101.1	2104.2
5°	2058.3	2083.9	2082.8	2086.9	2080.8	2093.0	2102.2	2105.3	2108.4	2144.1	2149.2
7.5°	2086.9	2098.2	2102.2	2118.5	2109.3	2128.7	2145.0	2128.7	2144.1	2169.5	2174.6
10°	2112.4	2129.8	2130.8	2156.3	2147.0	2165.5	2169.5	2169.5	2181.8	2211.4	2206.3
12.5°	2173.6	2174.6	2210.3	2212.3	2224.6	2223.6	2215.4	2192.0	2180.7	2220.5	2223.6
15°	2262.4	2273.6	2319.5	2316.4	2301.1	2293.0	2258.2	2200.1	2166.4	2160.4	2160.4
17.5°	2369.4	2372.5	2431.6	2419.4	2395.0	2342.0	2284.8	2181.8	2086.9	2056.3	2038.0
20°	2457.2	2482.7	2555.1	2513.2	2470.4	2384.8	2259.3	2117.5	1970.7	1896.2	1876.8
22.5°	2576.5	2626.5	2668.3	2607.1	2517.4	2392.9	2227.7	2023.7	1830.9	1714.6	1694.3
25°	2745.9	2774.4	2772.4	2666.3	2524.5	2367.4	2136.9	1891.1	1655.5	1528.0	1490.2
27.5°	2920.2	2940.7	2854.9	2711.1	2500.0	2295.0	2018.6	1717.7	1477.9	1363.8	1335.2
30°	3118.1	3097.8	2919.3	2691.7	2435.8	2167.5	1852.3	1526.9	1323.9	1223.0	1207.7
32.5°	3423.2	3318.0	2976.3	2646.9	2319.5	1992.1	1649.3	1390.3	1224.0	1105.7	1085.2
35°	3952.5	3730.1	3078.4	2607.1	2178.7	1795.2	1475.0	1295.4	1135.3	995.6	969.0
37.5°	4636.9	4282.9	3270.1	2538.8	2012.4	1603.4	1363.8	1215.8	1068.0	912.9	883.3
40°	5308.1	4861.3	3528.2	2470.4	1855.4	1472.8	1300.5	1184.2	1041.5	882.3	850.7
42.5°	5797.7	5324.4	3809.7	2405.1	1703.4	1370.9	1268.9	1175.0	1042.4	887.3	857.8
45°	6166.9	5691.6	4095.2	2315.4	1525.9	1292.3	1239.3	1165.9	1041.5	892.5	855.8
47.5°	6492.3	5932.3	4292.2	2197.1	1357.6	1231.2	1203.6	1131.1	1015.9	871.0	839.4
50°	6721.8	6160.8	4420.6	2094.0	1228.1	1177.1	1153.6	1075.1	955.7	829.3	792.5
52.5°	6883.9	6308.6	4436.0	2068.5	1130.2	1130.2	1093.4	1011.9	896.6	769.1	733.3
55°	7054.3	6393.3	4369.6	1973.7	1027.1	1052.6	1029.2	969.0	857.8	727.3	704.8
57.5°	7047.2	6350.5	4237.1	1586.1	911.8	938.4	947.6	931.2	843.6	737.5	716.1
60°	7094.1	6306.6	4016.7	1102.6	802.8	843.6	882.3	882.3	798.6	673.2	650.8
62.5°	7069.6	6205.6	3546.5	777.2	716.1	781.4	830.3	792.5	711.0	604.9	590.6
65°	6910.4	5918.1	2660.1	659.9	685.4	745.6	790.5	732.4	648.8	546.7	536.5
67.5°	6619.8	5388.6	1414.8	617.1	672.2	721.2	745.6	682.4	599.8	496.8	485.5
69°	6249.5	4748.0	758.9	610.9	670.2	700.7	718.1	652.8	563.0	472.3	472.3
70°	5866.0	4241.2	490.6	614.0	662.0	688.5	698.7	632.4	541.6	446.7	442.7
72.5°	4596.2	2727.4	410.1	583.5	637.5	649.7	648.8	578.4	475.4	339.7	345.7
75°	2789.7	832.3	391.6	533.4	596.7	622.2	605.8	485.5	370.2	284.6	284.6
77.5°	758.9	291.7	371.3	486.5	544.7	551.8	546.7	451.8	330.5	235.6	237.6
80°	226.4	226.4	345.7	405.9	462.0	494.7	469.2	396.8	265.2	124.4	128.6
82.5°	130.6	146.9	289.7	285.6	373.3	372.3	372.3	283.5	179.5	81.6	66.3
85°	69.3	104.1	157.1	164.2	175.4	197.9	268.3	244.8	135.7	36.7	8.2
87.5°	39.7	59.1	42.8	30.6	64.2	117.3	173.4	166.3	113.2	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)