

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: P286947

Luminaire Tested: **USSL-C027-D-U-T2-BZ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-4)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C027-D-U-T2-BZ-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13445 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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

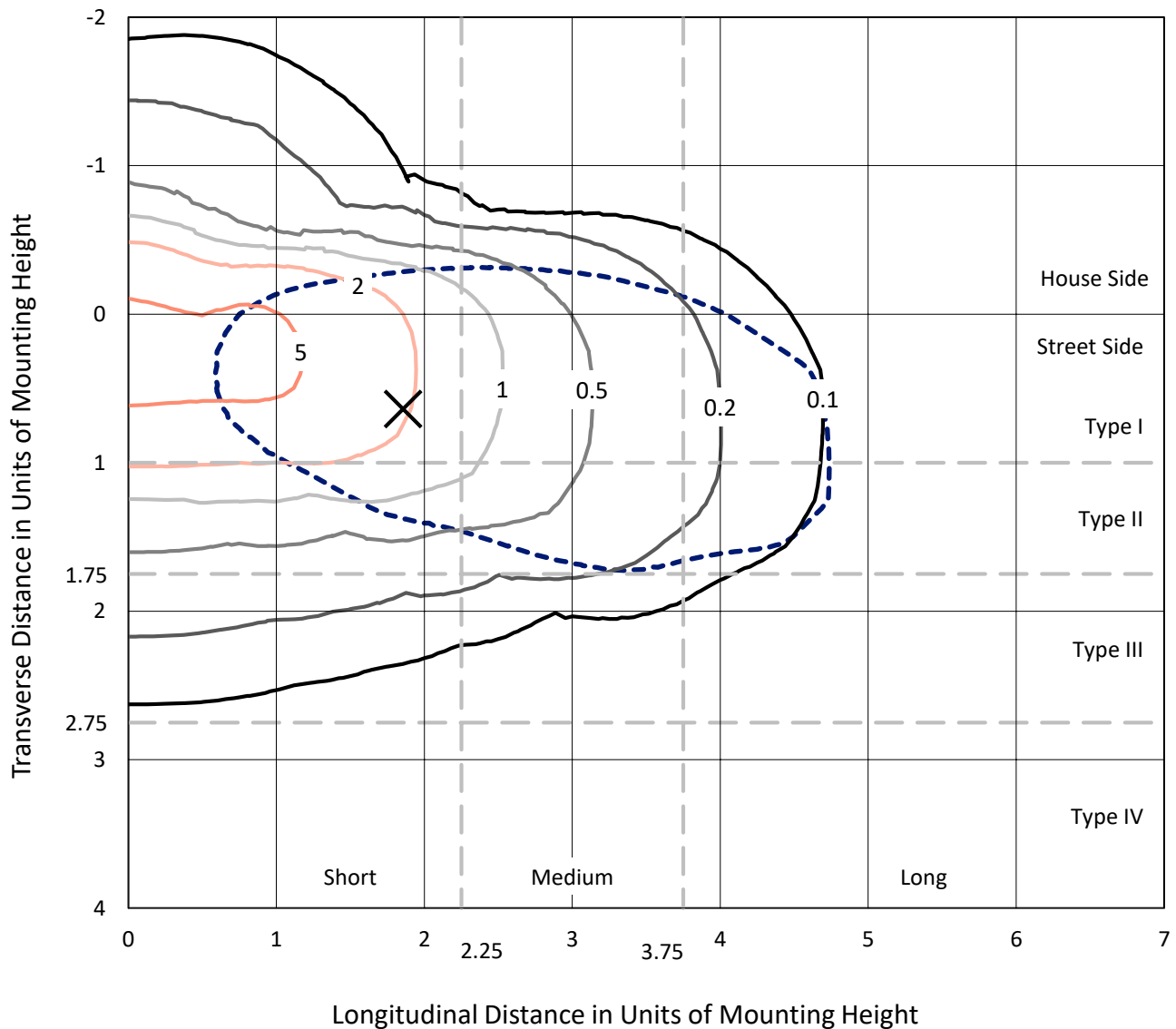


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

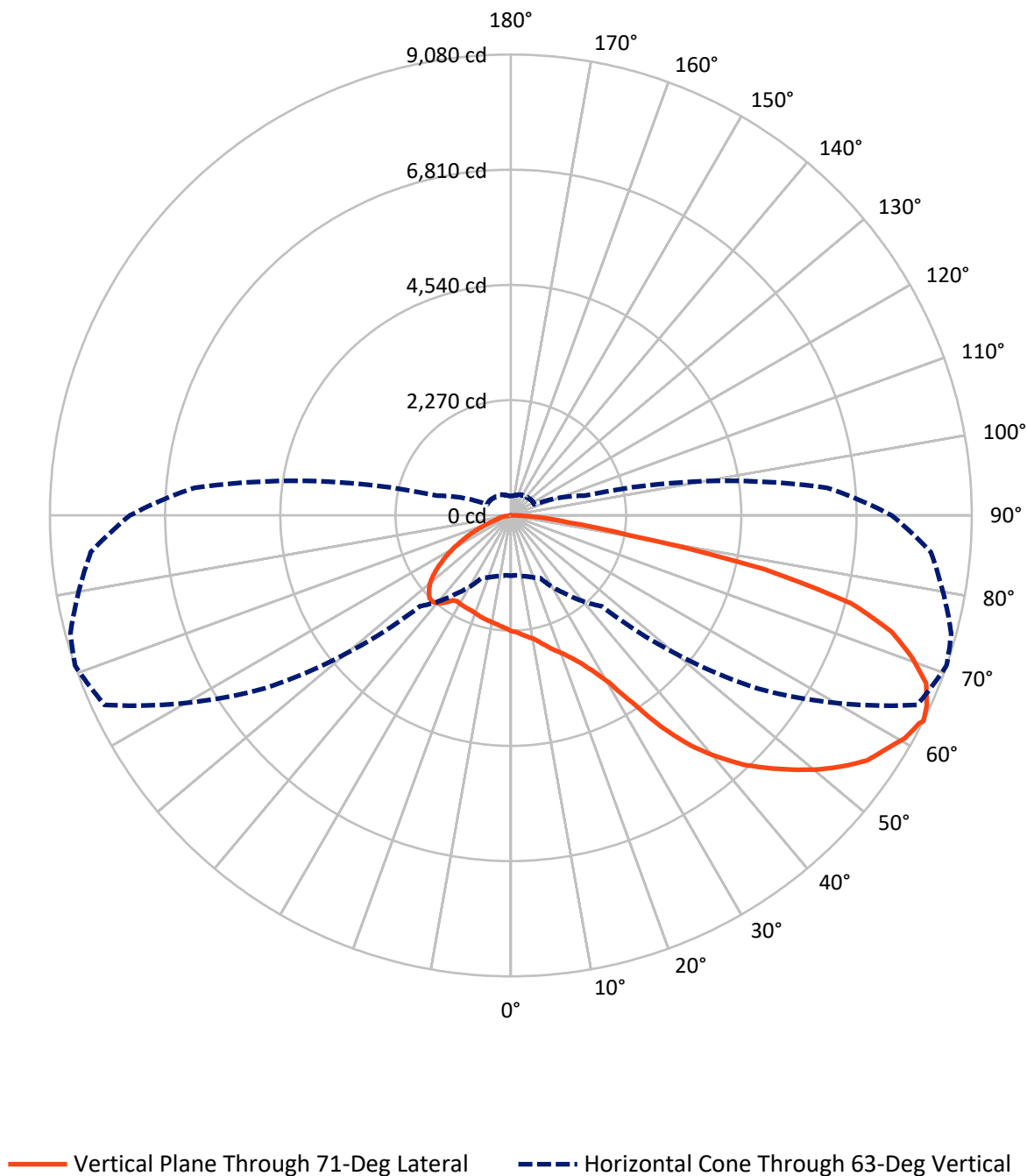


Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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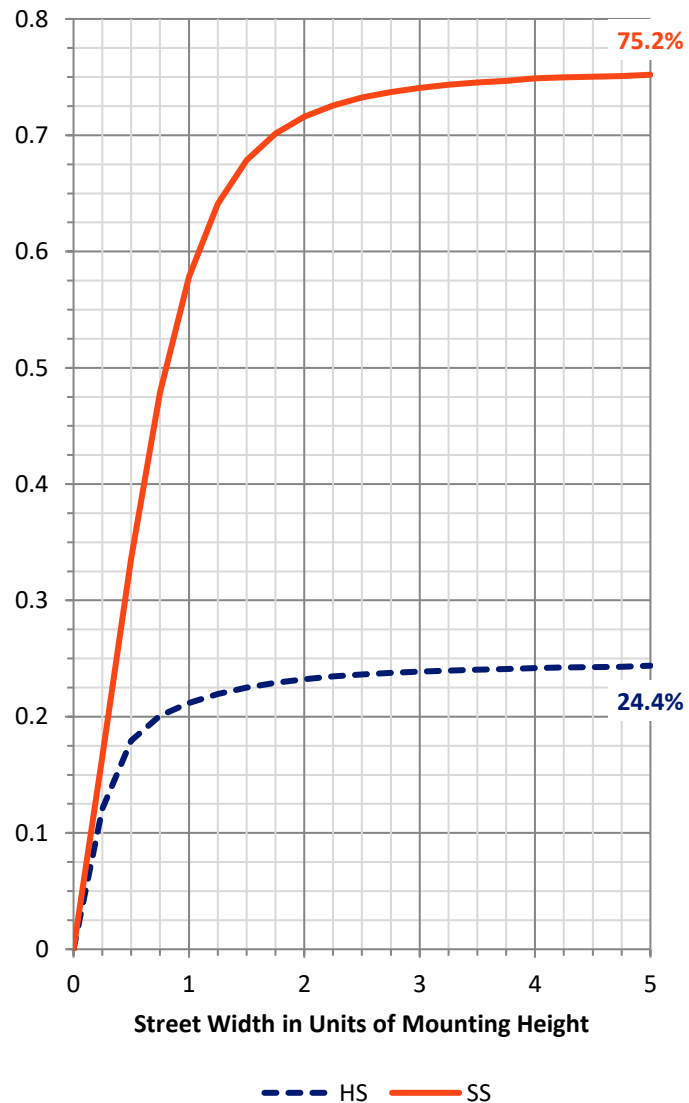
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3334.5	0.0	3334.5
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	10110.5	0.0	10110.5
	% Fixture	75.2	0.0	75.2
Total	Lumens	13445.0	0.0	13445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	1.6
10°-20°	669.1	5.0
20°-30°	1129.8	8.4
30°-40°	1697.8	12.6
40°-50°	2333.8	17.4
50°-60°	2713.7	20.2
60°-70°	2698.0	20.1
70°-80°	1702.9	12.7
80°-90°	280.5	2.1
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°	13445.0	100.0
0°-180°	13445.0	100.0

Coefficient of Utilization



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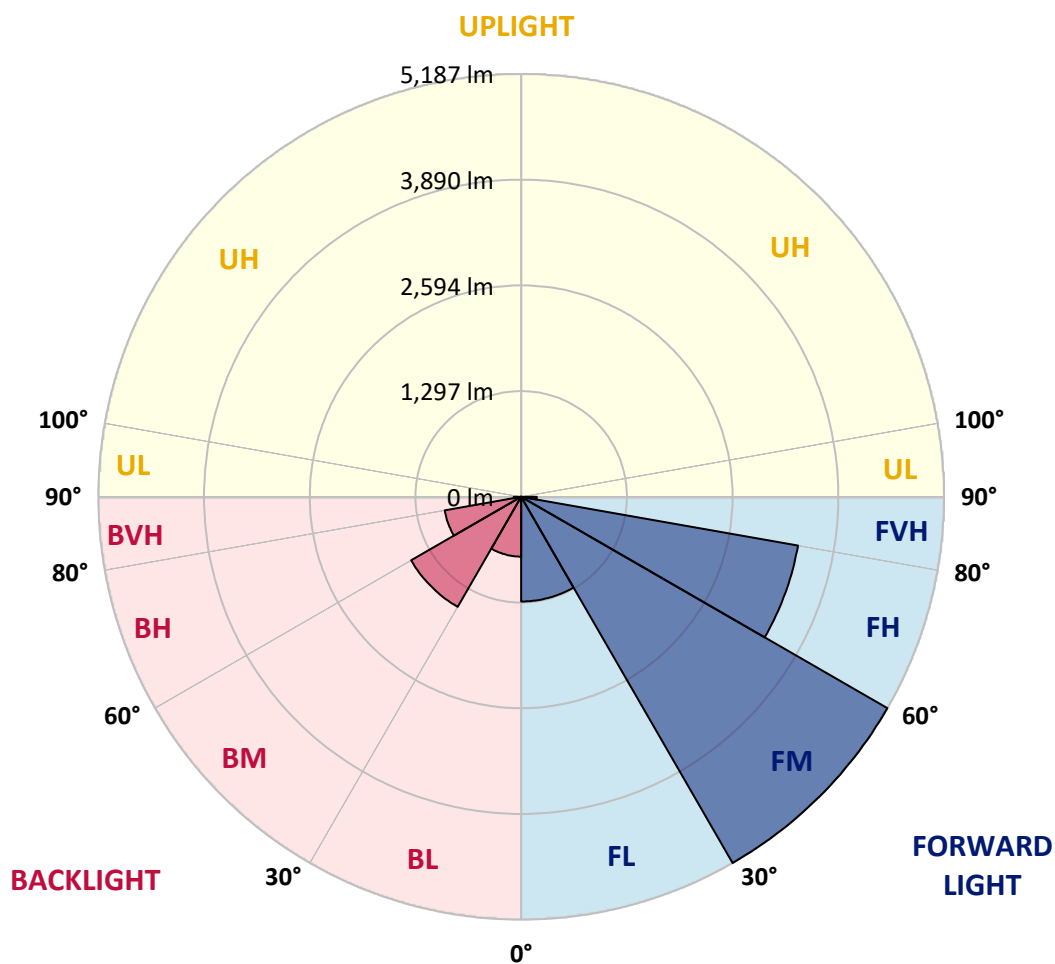
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1284.4	9.6			
FM	(30°-60°)	5187.1	38.6			
FH	(60°-80°)	3448.2	25.6			G2/5000
FVH	(80°-90°)	190.8	1.4			G2/225
BL	(0°-30°)	733.9	5.5	B2/1000		
BM	(30°-60°)	1558.3	11.6	B2/2500		
BH	(60°-80°)	952.6	7.1	B2/1000		G2/1000
BVH	(80°-90°)	89.7	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2
2.5°	2443.6	2439.7	2434.4	2401.0	2395.1	2374.7	2353.1	2329.4	2303.2	2306.5	2274.3
5°	2580.8	2572.2	2568.9	2519.1	2482.3	2460.0	2430.5	2376.7	2361.6	2349.8	2287.4
7.5°	2691.0	2694.9	2687.7	2640.5	2603.7	2567.0	2514.5	2435.1	2415.4	2390.5	2328.8
10°	2780.2	2790.1	2784.8	2731.0	2699.5	2663.4	2599.8	2518.4	2473.1	2437.1	2338.6
12.5°	2887.8	2881.9	2883.3	2832.1	2804.5	2755.3	2708.7	2616.2	2564.4	2514.5	2383.9
15°	3022.4	3014.5	3004.6	2955.4	2914.1	2885.2	2835.4	2732.3	2675.9	2628.7	2456.1
17.5°	3141.8	3114.2	3109.6	3055.2	3022.4	2983.7	2949.5	2861.6	2791.4	2730.4	2535.5
20°	3221.8	3208.1	3189.7	3158.2	3144.4	3115.5	3072.9	2976.4	2897.7	2835.4	2603.1
22.5°	3275.7	3267.8	3267.8	3257.9	3264.5	3252.7	3218.6	3127.4	3046.6	2958.1	2706.7
25°	3291.4	3267.1	3301.9	3340.0	3385.9	3406.2	3374.7	3311.7	3231.0	3144.4	2840.6
27.5°	3302.6	3298.6	3341.9	3406.9	3523.0	3569.6	3569.6	3534.2	3482.3	3380.0	3034.8
30°	3303.9	3305.2	3363.6	3464.0	3620.8	3750.1	3756.6	3851.1	3824.2	3745.5	3332.1
32.5°	3210.0	3206.8	3294.7	3469.9	3696.3	3902.3	4009.3	4268.5	4392.5	4397.7	3979.1
35°	3020.4	3044.7	3183.1	3412.1	3749.4	4075.5	4322.9	4851.1	5119.5	5113.0	4611.0
37.5°	2870.8	2890.5	3049.9	3350.5	3784.2	4233.7	4675.3	5498.1	5746.2	5724.5	5114.3
40°	2735.0	2757.9	2916.7	3242.8	3772.4	4413.5	5067.0	6057.9	6246.2	6216.0	5588.0
42.5°	2572.2	2589.3	2746.8	3092.6	3738.9	4536.8	5419.4	6569.0	6710.1	6628.7	5958.8
45°	2410.8	2423.3	2595.2	2895.7	3633.3	4618.2	5771.1	7033.6	7099.2	7034.3	6368.2
47.5°	2206.1	2218.5	2417.4	2723.8	3451.5	4615.6	6099.9	7425.3	7487.0	7400.4	6676.6
50°	1696.2	1708.7	2116.2	2547.9	3198.2	4553.2	6363.0	7788.2	7865.0	7738.3	7024.4
52.5°	1541.4	1547.3	1658.2	2329.4	2874.7	4379.3	6554.6	8113.0	8206.8	8069.0	7326.3
55°	1470.5	1465.3	1510.5	1876.0	2625.4	4102.4	6700.3	8420.8	8516.6	8378.1	7595.3
57.5°	1358.9	1367.5	1444.3	1606.3	2399.7	3597.2	6648.4	8709.5	8700.3	8594.0	7859.7
60°	1278.9	1282.8	1358.9	1474.4	2129.3	3022.4	6429.3	8869.6	8913.6	8771.8	8088.1
62.5°	1195.6	1200.8	1265.8	1370.8	1918.7	2600.4	6077.5	8860.4	9027.1	8939.8	8294.8
63°	1185.1	1183.7	1242.8	1357.0	1886.5	2528.9	5948.3	8831.5	9079.6	8981.1	8304.6
65°	1102.4	1107.6	1170.6	1275.6	1748.7	2332.7	5582.8	8636.6	9006.1	9014.6	8395.2
67.5°	982.3	990.2	1044.0	1141.1	1485.6	2046.0	4623.4	8524.4	8819.7	8871.6	8281.0
70°	840.6	849.1	905.5	995.4	1259.2	1746.8	3436.4	8037.5	8382.0	8474.6	7765.2
72.5°	666.0	677.2	748.7	839.3	1032.8	1435.1	2418.7	7242.3	7844.0	7863.0	7045.4
75°	434.4	442.9	546.6	673.2	835.3	1136.5	1597.8	5544.7	6927.9	7044.7	6038.8
77.5°	256.6	268.4	319.6	370.7	528.9	856.3	1038.1	2952.8	5103.1	5475.2	4765.2
80°	69.6	76.8	242.1	282.8	337.9	369.4	639.1	1630.0	2362.2	2999.4	3209.4
82.5°	36.1	44.6	135.2	181.8	193.6	187.7	295.3	757.9	1154.9	1353.0	1611.6
85°	16.4	19.7	44.6	66.3	53.8	51.2	98.4	395.7	645.7	749.4	810.4
87.5°	5.9	7.2	15.7	24.3	14.4	11.2	13.8	119.4	249.3	315.0	286.1
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°	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2
2.5°	2251.4	2271.0	2244.8	2214.6	2193.6	2181.8	2172.0	2149.6	2156.2	2164.7	2163.4
5°	2273.0	2275.6	2214.6	2175.9	2130.0	2103.7	2093.9	2055.8	2059.7	2063.7	2063.0
7.5°	2286.8	2262.5	2188.4	2131.9	2083.4	2043.3	2005.9	1967.9	1960.7	1967.9	1973.8
10°	2290.7	2254.0	2170.0	2091.2	2025.6	1968.5	1935.7	1876.0	1865.5	1880.0	1889.1
12.5°	2326.8	2265.8	2156.9	2064.3	1987.6	1912.1	1855.0	1788.7	1757.3	1769.1	1780.2
15°	2371.4	2286.8	2145.7	2030.2	1927.9	1843.2	1768.4	1696.9	1657.5	1673.3	1681.1
17.5°	2425.2	2325.5	2145.1	1974.4	1864.2	1761.8	1686.4	1609.0	1536.1	1561.7	1553.2
20°	2485.0	2359.0	2141.1	1922.6	1786.1	1662.8	1562.4	1511.2	1435.7	1436.4	1425.2
22.5°	2555.8	2404.9	2136.5	1873.4	1691.0	1566.3	1441.0	1381.9	1320.2	1297.3	1290.1
25°	2667.4	2478.4	2144.4	1839.9	1609.0	1440.3	1293.3	1217.2	1191.0	1162.1	1149.6
27.5°	2818.9	2580.8	2161.5	1797.3	1505.9	1307.1	1126.7	1053.2	1034.8	1013.1	998.7
30°	3041.4	2727.1	2181.8	1748.7	1386.5	1126.7	960.6	907.5	878.0	866.8	858.3
32.5°	3606.4	3138.5	2197.5	1685.1	1262.5	952.8	832.7	779.5	738.2	718.5	720.5
35°	4185.8	3637.2	2309.1	1609.0	1110.3	807.8	720.5	654.9	604.3	591.2	582.0
37.5°	4639.8	4047.3	2564.4	1532.2	964.6	723.8	610.2	553.2	510.5	507.2	527.6
40°	5068.3	4424.0	2775.0	1443.6	813.7	628.0	498.7	475.7	456.7	461.3	488.9
42.5°	5424.0	4761.9	2948.2	1316.3	691.6	519.7	425.9	450.1	456.0	462.0	463.9
45°	5772.4	5028.3	3042.1	1149.6	584.0	432.4	418.0	463.3	473.1	481.6	471.1
47.5°	6132.0	5328.8	3040.7	944.9	503.3	422.6	434.4	463.3	480.3	490.8	487.5
50°	6419.4	5551.9	3002.0	743.5	482.9	445.5	442.9	444.2	471.8	479.0	479.7
52.5°	6691.7	5762.6	2842.6	610.9	511.2	471.8	452.8	437.0	448.8	465.9	446.9
55°	6957.5	5945.6	2559.8	574.8	524.9	494.1	473.1	445.5	433.7	429.8	436.4
57.5°	7176.0	6097.9	2227.7	558.4	528.9	496.1	507.9	444.9	431.8	401.6	398.3
60°	7389.2	6242.2	1901.0	535.4	525.6	492.1	473.8	456.0	424.5	379.3	362.9
62.5°	7521.8	6286.9	1559.1	515.8	511.2	487.5	462.0	453.4	417.3	382.6	378.0
63°	7502.8	6255.4	1499.4	512.5	507.9	484.3	462.6	450.1	414.0	386.5	384.5
65°	7548.7	6074.9	1235.6	492.1	494.1	475.1	452.8	430.5	384.5	364.8	361.6
67.5°	7330.8	5745.5	891.7	454.7	473.1	460.6	433.1	392.4	349.7	324.2	322.8
70°	6759.3	5121.5	612.9	387.8	439.6	440.3	423.2	370.7	324.2	295.3	299.2
72.5°	5951.6	4475.1	395.0	301.8	378.0	404.9	395.0	350.4	289.4	236.9	232.9
75°	5084.7	3649.7	291.3	243.4	278.9	360.2	345.2	285.4	242.8	209.3	206.7
77.5°	3816.3	2639.2	257.9	208.0	207.4	244.1	284.1	280.8	288.1	346.5	338.6
80°	2641.8	1862.2	205.4	168.6	126.6	154.2	239.5	297.2	370.7	215.2	202.1
82.5°	1528.9	1011.2	66.9	53.2	77.4	99.7	175.9	369.4	245.4	128.6	115.5
85°	719.8	383.9	28.9	16.4	23.0	33.5	99.1	312.3	156.8	64.3	11.8
87.5°	223.1	105.6	6.6	5.2	5.9	7.2	42.0	164.0	107.6	7.2	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)