

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: P286939

Luminaire Tested: **USSL-C027-D-U-T2-BZ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286939
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-7030
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12965 lumens
Efficiency: N/A
Efficacy: 135.1 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



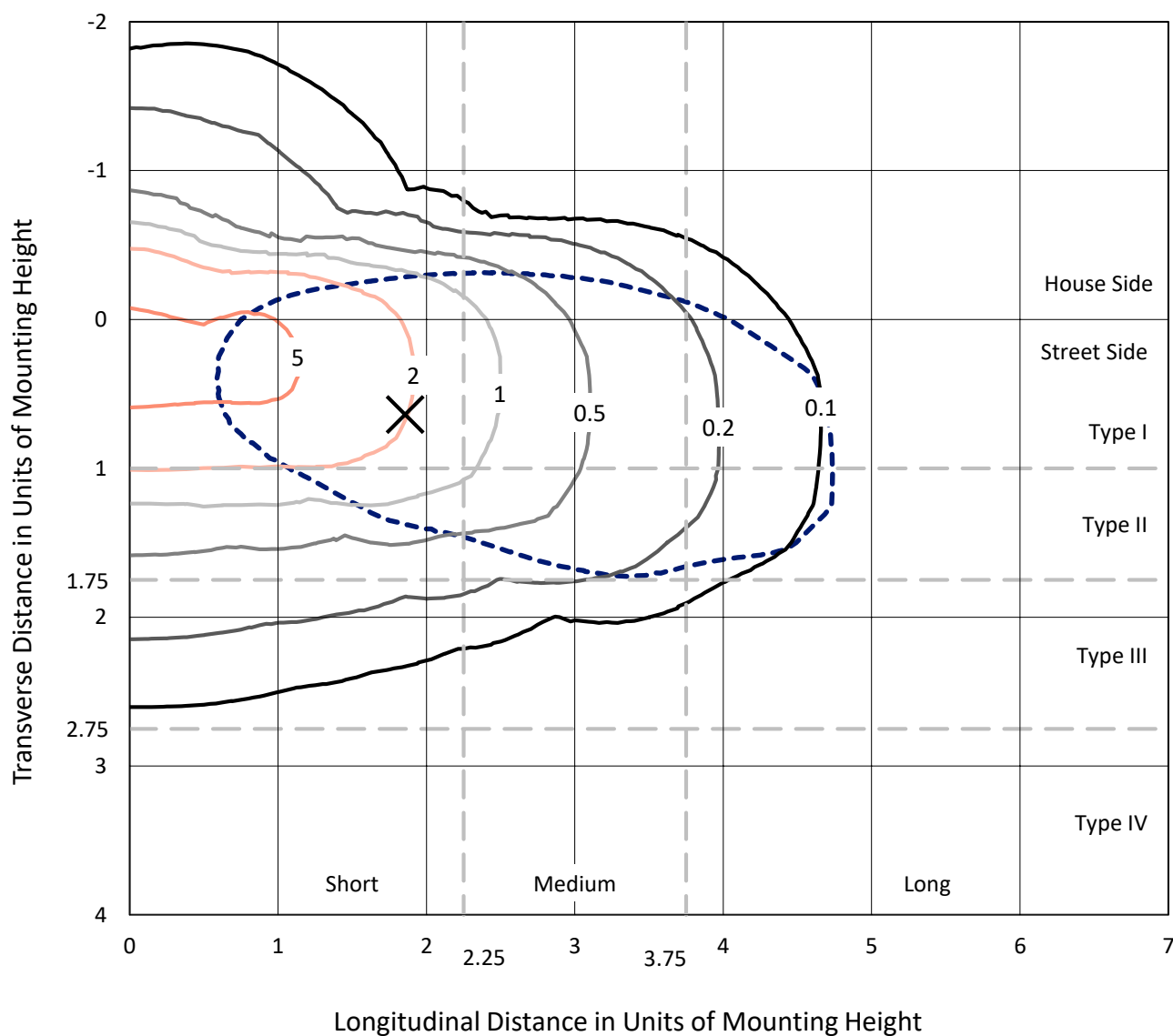
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

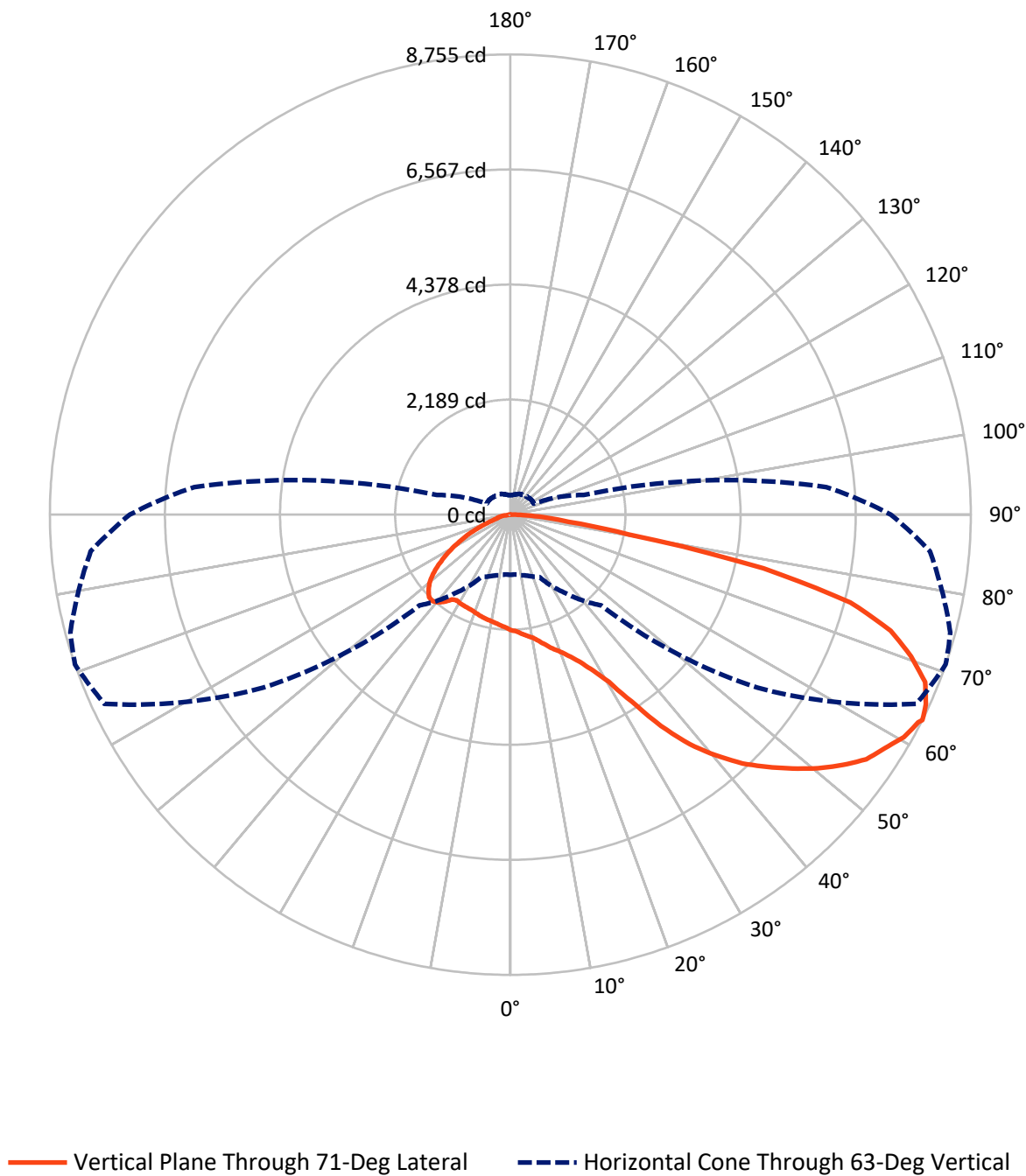


Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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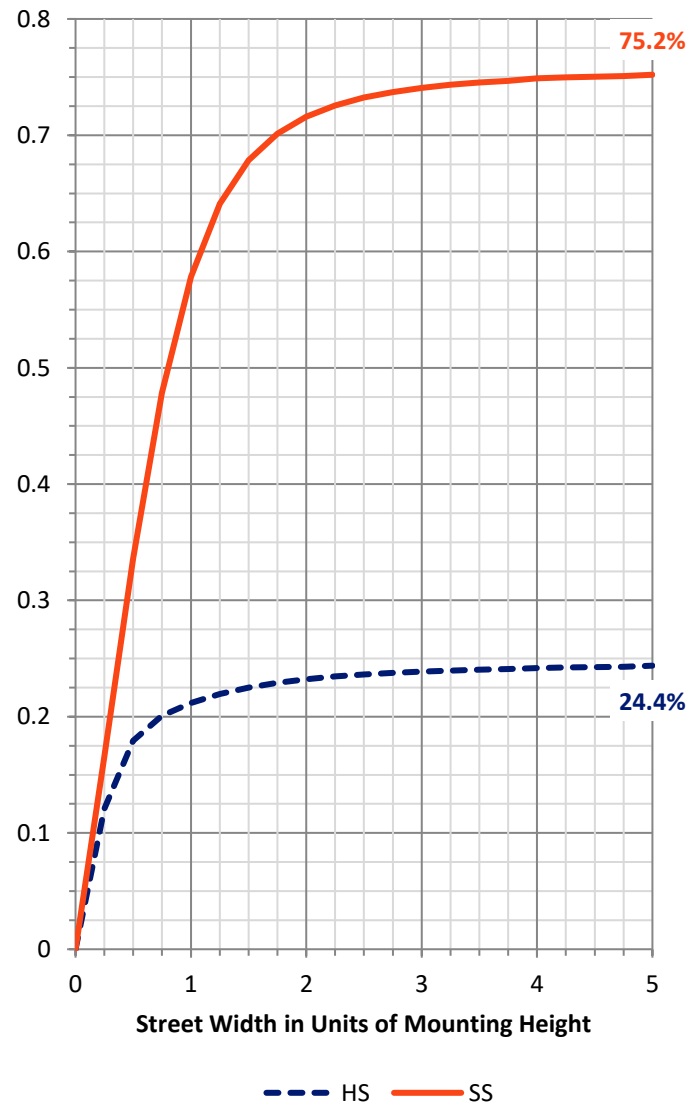
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3215.5	0.0	3215.5
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	9749.5	0.0	9749.5
	% Fixture	75.2	0.0	75.2
Total	Lumens	12965.0	0.0	12965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	1.6
10°-20°	645.2	5.0
20°-30°	1089.4	8.4
30°-40°	1637.2	12.6
40°-50°	2250.5	17.4
50°-60°	2616.8	20.2
60°-70°	2601.6	20.1
70°-80°	1642.1	12.7
80°-90°	270.5	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°	12965.0	100.0
0°-180°	12965.0	100.0

Coefficient of Utilization



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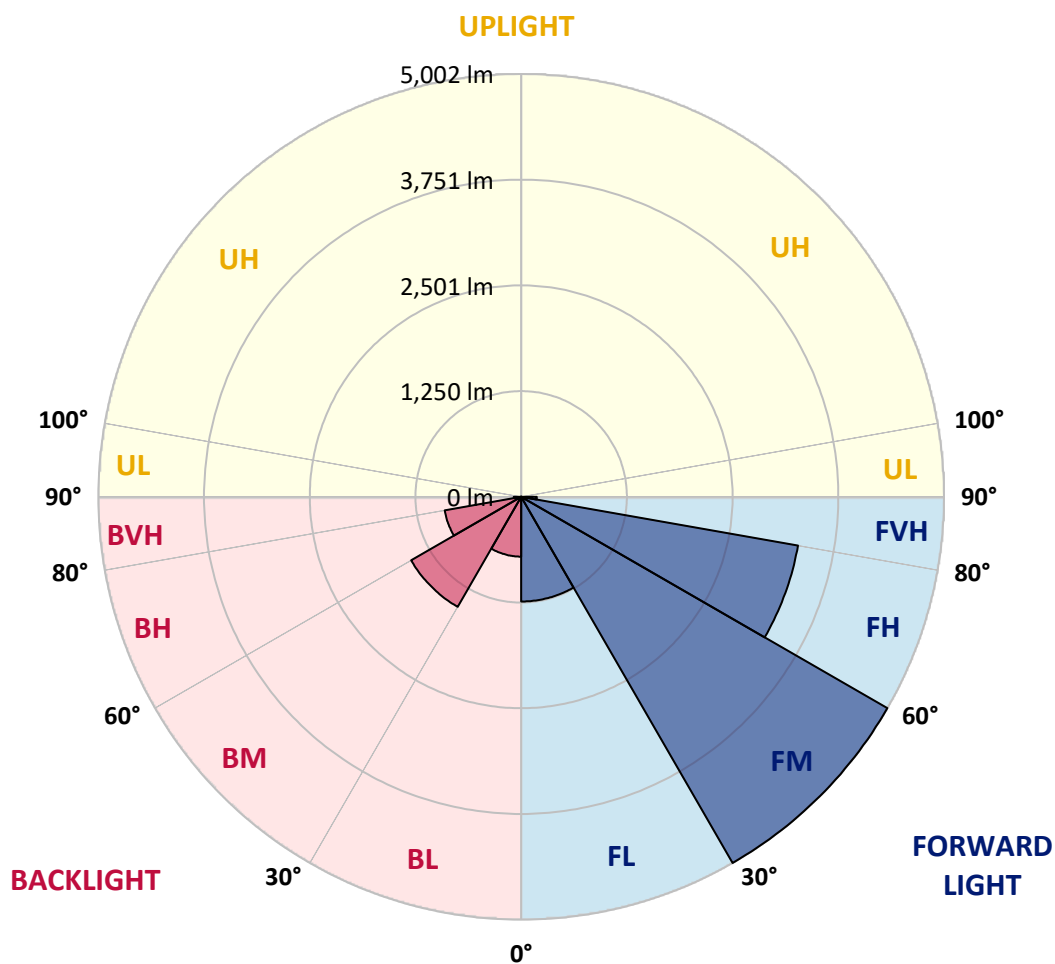
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1238.5	9.6			
FM	(30°-60°)	5001.9	38.6			
FH	(60°-80°)	3325.1	25.6			G2/5000
FVH	(80°-90°)	184.0	1.4			G2/225
BL	(0°-30°)	707.7	5.5	B2/1000		
BM	(30°-60°)	1502.6	11.6	B2/2500		
BH	(60°-80°)	918.6	7.1	B2/1000		G2/1000
BVH	(80°-90°)	86.5	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°	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7
2.5°	2356.4	2352.6	2347.5	2315.2	2309.6	2289.9	2269.1	2246.3	2221.0	2224.1	2193.1
5°	2488.6	2480.4	2477.2	2429.1	2393.7	2372.2	2343.7	2291.8	2277.3	2265.9	2205.8
7.5°	2594.9	2598.7	2591.8	2546.2	2510.8	2475.3	2424.7	2348.1	2329.2	2305.1	2245.6
10°	2681.0	2690.5	2685.4	2633.5	2603.1	2568.3	2507.0	2428.5	2384.8	2350.0	2255.1
12.5°	2784.7	2779.1	2780.3	2731.0	2704.4	2656.9	2612.0	2522.8	2472.8	2424.7	2298.8
15°	2914.5	2906.9	2897.4	2849.9	2810.1	2782.2	2734.1	2634.8	2580.4	2534.8	2368.4
17.5°	3029.6	3003.0	2998.6	2946.1	2914.5	2877.1	2844.2	2759.4	2691.7	2632.9	2445.0
20°	3106.8	3093.5	3075.8	3045.4	3032.2	3004.3	2963.2	2870.2	2794.2	2734.1	2510.1
22.5°	3158.7	3151.1	3151.1	3141.6	3148.0	3136.6	3103.7	3015.7	2937.9	2852.5	2610.1
25°	3173.9	3150.5	3184.0	3220.7	3265.0	3284.6	3254.3	3193.5	3115.7	3032.2	2739.2
27.5°	3184.6	3180.9	3222.6	3285.3	3397.3	3442.2	3442.2	3408.0	3358.0	3259.3	2926.5
30°	3185.9	3187.2	3243.5	3340.3	3491.5	3616.2	3622.5	3713.6	3687.7	3611.8	3213.1
32.5°	3095.4	3092.3	3177.1	3346.0	3564.3	3763.0	3866.1	4116.1	4235.7	4240.7	3837.0
35°	2912.6	2936.0	3069.5	3290.3	3615.6	3930.0	4168.6	4677.9	4936.7	4930.4	4446.4
37.5°	2768.3	2787.3	2941.0	3230.8	3649.1	4082.5	4508.4	5301.8	5541.0	5520.1	4931.7
40°	2637.3	2659.5	2812.6	3127.1	3637.7	4255.9	4886.1	5841.6	6023.2	5994.1	5388.5
42.5°	2480.4	2496.8	2648.7	2982.2	3605.4	4374.9	5225.9	6334.5	6470.5	6392.1	5746.0
45°	2324.7	2336.8	2502.5	2792.3	3503.6	4453.3	5565.1	6782.5	6845.8	6783.1	6140.9
47.5°	2127.3	2139.3	2331.1	2626.6	3328.3	4450.8	5882.1	7160.2	7219.7	7136.2	6438.3
50°	1635.7	1647.7	2040.6	2457.0	3084.0	4390.7	6135.8	7510.2	7584.2	7462.1	6773.6
52.5°	1486.3	1492.0	1599.0	2246.3	2772.1	4223.0	6320.6	7823.4	7913.9	7781.0	7064.7
55°	1418.0	1412.9	1456.6	1809.0	2531.6	3956.0	6461.0	8120.1	8212.5	8079.0	7324.1
57.5°	1310.4	1318.7	1392.7	1549.0	2314.0	3468.8	6411.1	8398.5	8389.7	8287.2	7579.1
60°	1233.2	1237.0	1310.4	1421.8	2053.3	2914.5	6199.7	8552.9	8595.3	8458.7	7799.3
62.5°	1152.9	1157.9	1220.6	1321.8	1850.2	2507.6	5860.6	8544.1	8704.8	8620.6	7998.6
63°	1142.8	1141.5	1198.4	1308.5	1819.2	2438.6	5735.9	8516.2	8755.4	8660.5	8008.1
65°	1063.0	1068.1	1128.8	1230.1	1686.3	2249.4	5383.5	8328.3	8684.5	8692.8	8095.5
67.5°	947.2	954.8	1006.7	1100.4	1432.6	1972.9	4458.4	8220.1	8504.8	8554.8	7985.4
70°	810.6	818.8	873.2	959.9	1214.3	1684.4	3313.7	7750.6	8082.8	8172.0	7488.0
72.5°	642.2	653.0	722.0	809.3	996.0	1383.8	2332.3	6983.7	7563.9	7582.3	6793.9
75°	418.9	427.1	527.1	649.2	805.5	1095.9	1540.8	5346.8	6680.6	6793.2	5823.2
77.5°	247.4	258.8	308.2	357.5	510.0	825.7	1001.0	2847.4	4920.9	5279.7	4595.1
80°	67.1	74.0	233.5	272.7	325.9	356.2	616.3	1571.8	2277.9	2892.3	3094.8
82.5°	34.8	43.0	130.3	175.3	186.7	181.0	284.7	730.8	1113.6	1304.7	1554.0
85°	15.8	19.0	43.0	63.9	51.9	49.4	94.9	381.6	622.6	722.6	781.5
87.5°	5.7	7.0	15.2	23.4	13.9	10.8	13.3	115.2	240.4	303.7	275.9
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°	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7
2.5°	2171.0	2190.0	2164.7	2135.5	2115.3	2103.9	2094.4	2072.9	2079.2	2087.5	2086.2
5°	2191.9	2194.4	2135.5	2098.2	2053.9	2028.6	2019.1	1982.4	1986.2	1990.0	1989.4
7.5°	2205.1	2181.7	2110.2	2055.8	2009.0	1970.4	1934.3	1897.6	1890.7	1897.6	1903.3
10°	2208.9	2173.5	2092.5	2016.6	1953.3	1898.3	1866.6	1809.0	1798.9	1812.8	1821.7
12.5°	2243.7	2184.9	2079.9	1990.6	1916.6	1843.8	1788.8	1724.9	1694.5	1705.9	1716.7
15°	2286.8	2205.1	2069.1	1957.7	1859.0	1777.4	1705.3	1636.3	1598.3	1613.5	1621.1
17.5°	2338.7	2242.5	2068.5	1904.0	1797.7	1698.9	1626.2	1551.5	1481.3	1506.0	1497.7
20°	2396.2	2274.7	2064.7	1854.0	1722.4	1603.4	1506.6	1457.2	1384.5	1385.1	1374.3
22.5°	2464.6	2319.0	2060.2	1806.5	1630.6	1510.4	1389.5	1332.6	1273.1	1251.0	1244.0
25°	2572.1	2389.9	2067.8	1774.2	1551.5	1388.9	1247.2	1173.8	1148.4	1120.6	1108.6
27.5°	2718.3	2488.6	2084.3	1733.1	1452.2	1260.4	1086.4	1015.6	997.9	977.0	963.1
30°	2932.8	2629.7	2103.9	1686.3	1337.0	1086.4	926.4	875.1	846.6	835.9	827.6
32.5°	3477.6	3026.5	2119.1	1624.9	1217.4	918.8	803.0	751.7	711.8	692.9	694.8
35°	4036.3	3507.4	2226.7	1551.5	1070.6	778.9	694.8	631.5	582.8	570.1	561.3
37.5°	4474.2	3902.8	2472.8	1477.5	930.1	697.9	588.5	533.4	492.3	489.1	508.7
40°	4887.4	4266.0	2675.9	1392.1	784.6	605.5	480.9	458.7	440.4	444.8	471.4
42.5°	5230.3	4591.9	2843.0	1269.3	666.9	501.1	410.7	434.1	439.8	445.5	447.4
45°	5566.3	4848.8	2933.4	1108.6	563.2	417.0	403.1	446.7	456.2	464.4	454.3
47.5°	5913.1	5138.6	2932.2	911.2	485.3	407.5	418.9	446.7	463.2	473.3	470.1
50°	6190.2	5353.7	2894.8	716.9	465.7	429.6	427.1	428.4	454.9	461.9	462.5
52.5°	6452.8	5556.8	2741.1	589.1	492.9	454.9	436.6	421.4	432.8	449.3	430.9
55°	6709.1	5733.4	2468.4	554.3	506.2	476.5	456.2	429.6	418.3	414.5	420.8
57.5°	6919.8	5880.2	2148.2	538.5	510.0	478.4	489.8	429.0	416.4	387.2	384.1
60°	7125.4	6019.4	1833.1	516.3	506.8	474.6	456.8	439.8	409.4	365.7	349.9
62.5°	7253.3	6062.4	1503.4	497.3	492.9	470.1	445.5	437.2	402.4	368.9	364.5
63°	7234.9	6032.0	1445.8	494.2	489.8	467.0	446.1	434.1	399.3	372.7	370.8
65°	7279.2	5858.0	1191.5	474.6	476.5	458.1	436.6	415.1	370.8	351.8	348.6
67.5°	7069.1	5540.4	859.9	438.5	456.2	444.2	417.6	378.4	337.3	312.6	311.3
70°	6518.0	4938.6	591.0	374.0	423.9	424.6	408.1	357.5	312.6	284.7	288.5
72.5°	5739.1	4315.4	380.9	291.1	364.5	390.4	380.9	337.9	279.0	228.4	224.6
75°	4903.2	3519.4	280.9	234.8	268.9	347.4	332.8	275.2	234.1	201.8	199.3
77.5°	3680.1	2544.9	248.7	200.6	200.0	235.4	274.0	270.8	277.8	334.1	326.5
80°	2547.5	1795.8	198.1	162.6	122.1	148.7	231.0	286.6	357.5	207.5	194.9
82.5°	1474.3	975.1	64.5	51.3	74.7	96.2	169.6	356.2	236.6	124.0	111.4
85°	694.1	370.2	27.8	15.8	22.1	32.3	95.5	301.2	151.2	62.0	11.4
87.5°	215.1	101.9	6.3	5.1	5.7	7.0	40.5	158.2	103.8	7.0	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)