

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: P287011

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-5)
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-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12365 lumens
Efficiency: N/A
Efficacy: 128.8 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

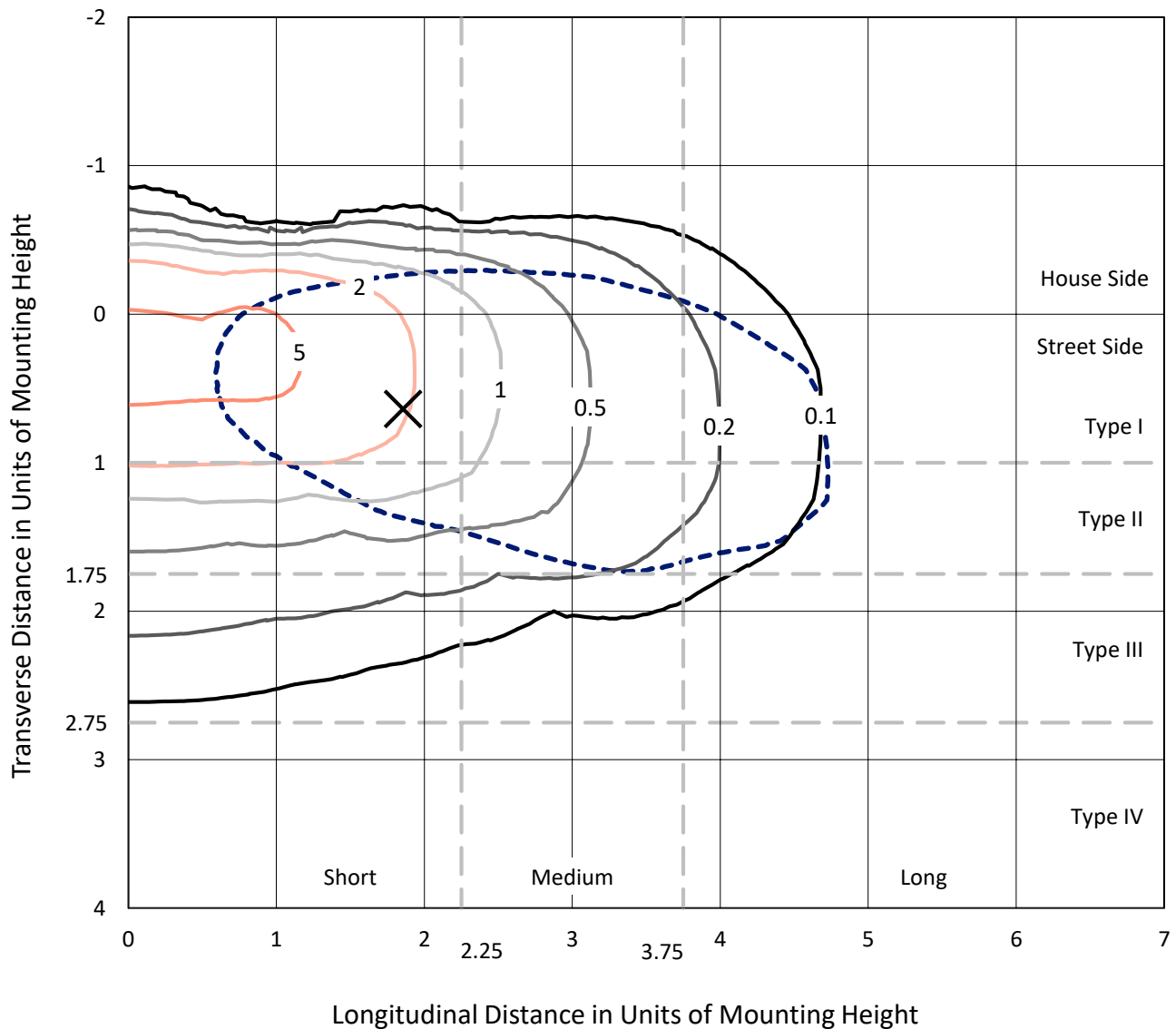


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

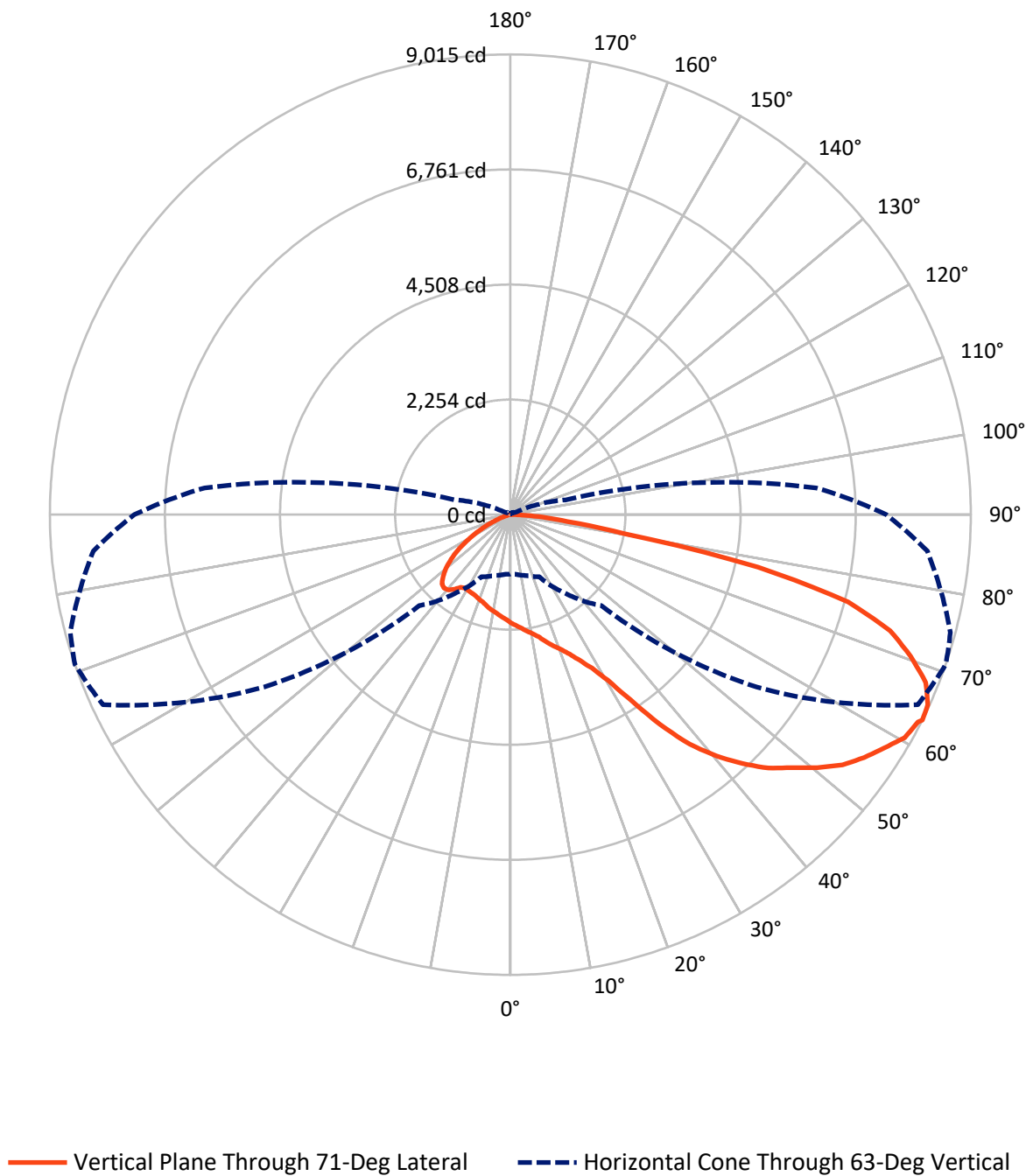


Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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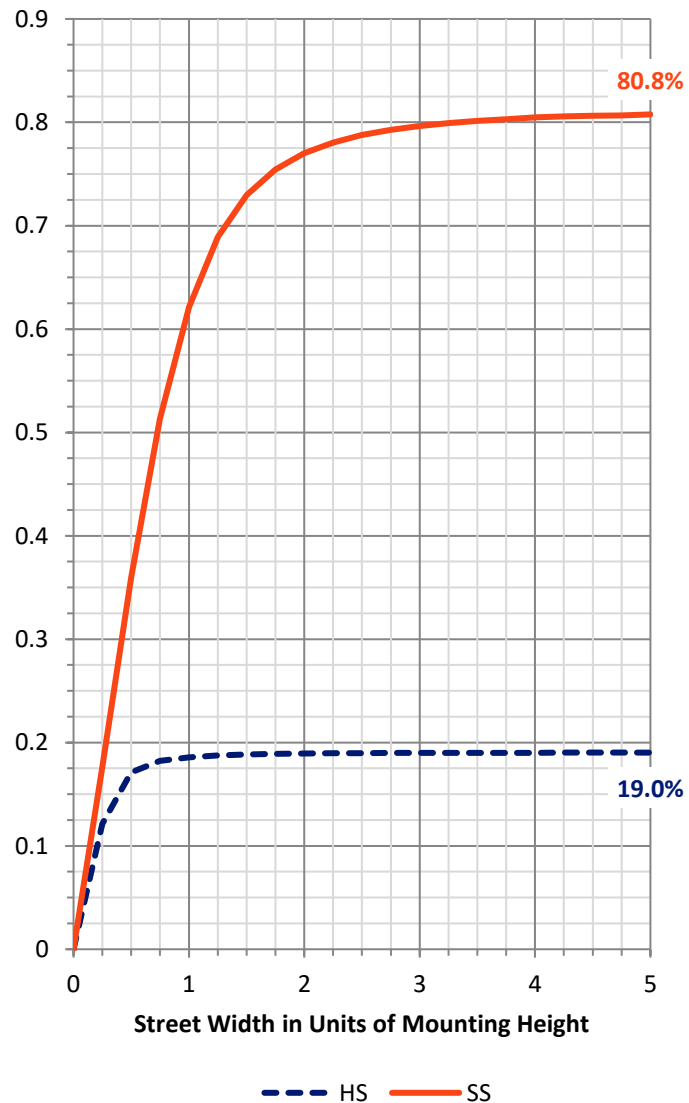
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2379.8	0.0	2379.8
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	9985.2	0.0	9985.2
	% Fixture	80.8	0.0	80.8
Total	Lumens	12365.0	0.0	12365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.6
10°-20°	607.9	4.9
20°-30°	1022.3	8.3
30°-40°	1562.4	12.6
40°-50°	2176.5	17.6
50°-60°	2520.7	20.4
60°-70°	2496.3	20.2
70°-80°	1547.5	12.5
80°-90°	229.1	1.9
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°	12365.0	100.0
0°-180°	12365.0	100.0

Coefficient of Utilization



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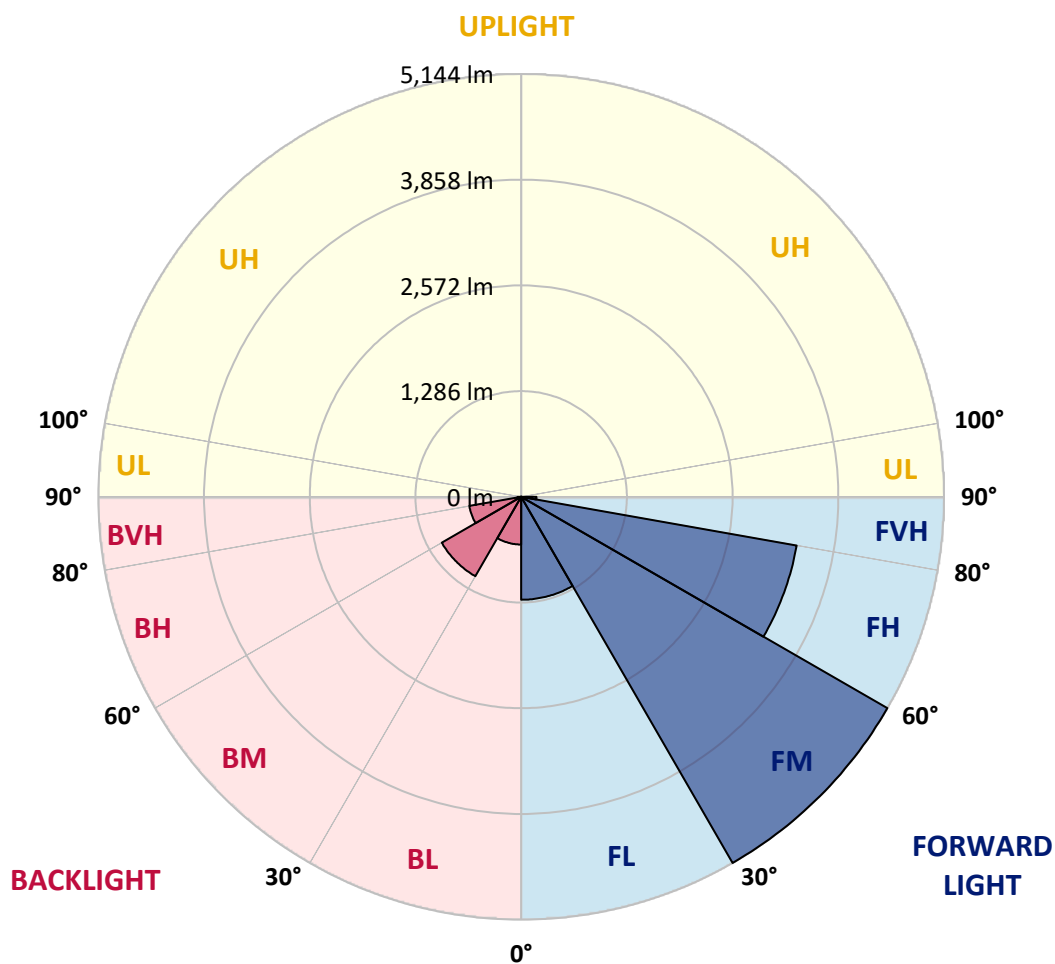
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1252.2	10.1			
FM	(30°-60°)	5144.0	41.6			
FH	(60°-80°)	3403.5	27.5			G2/5000
FVH	(80°-90°)	185.6	1.5			G2/225
BL	(0°-30°)	580.4	4.7	B2/1000		
BM	(30°-60°)	1115.5	9.0	B2/2500		
BH	(60°-80°)	640.4	5.2	B2/1000		G2/1000
BVH	(80°-90°)	43.5	0.4			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°	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2
2.5°	2340.4	2318.1	2317.5	2289.3	2268.3	2256.4	2224.3	2196.1	2171.8	2169.2	2125.9
5°	2467.7	2462.5	2455.3	2411.3	2391.6	2365.4	2329.9	2275.5	2231.5	2220.4	2151.5
7.5°	2611.4	2607.5	2593.0	2553.7	2503.8	2473.0	2404.1	2349.6	2303.0	2279.4	2186.2
10°	2694.1	2693.4	2692.1	2659.3	2620.6	2575.3	2501.8	2421.8	2368.0	2343.1	2208.6
12.5°	2825.3	2807.6	2801.7	2761.7	2712.5	2679.7	2612.1	2526.1	2453.3	2409.3	2259.1
15°	2931.0	2931.6	2920.5	2884.4	2847.6	2795.1	2738.1	2652.1	2572.0	2538.6	2345.7
17.5°	3062.2	3050.4	3037.2	2999.2	2960.5	2905.4	2869.9	2765.6	2700.0	2626.5	2421.8
20°	3145.5	3125.2	3110.7	3086.5	3070.7	3026.8	2994.6	2902.1	2812.2	2749.2	2507.1
22.5°	3203.3	3224.2	3218.3	3179.0	3184.9	3171.8	3131.1	3068.7	2967.7	2864.0	2605.5
25°	3238.7	3234.1	3268.2	3293.8	3338.4	3335.8	3305.6	3251.1	3161.3	3049.7	2752.5
27.5°	3249.2	3249.2	3304.3	3376.5	3481.5	3504.4	3508.4	3505.1	3405.3	3304.3	2945.4
30°	3264.9	3282.6	3335.8	3425.7	3577.9	3669.1	3712.4	3785.2	3760.3	3672.4	3260.3
32.5°	3202.6	3204.6	3282.0	3455.2	3677.0	3866.6	3951.9	4209.8	4319.3	4360.0	3898.8
35°	3001.8	3022.2	3163.2	3402.1	3722.9	4036.5	4268.2	4800.9	5042.4	5047.6	4509.6
37.5°	2862.7	2882.4	3034.0	3325.3	3759.0	4207.8	4629.7	5464.9	5709.0	5648.7	5036.5
40°	2710.5	2743.3	2904.1	3221.6	3753.7	4375.8	5016.2	6052.8	6215.6	6136.2	5467.6
42.5°	2562.2	2567.5	2725.6	3077.9	3726.8	4512.2	5394.1	6487.2	6667.0	6564.6	5890.1
45°	2382.4	2406.0	2562.2	2887.0	3637.6	4596.2	5726.7	6963.6	7083.0	6968.8	6243.1
47.5°	2175.1	2205.3	2406.0	2710.5	3439.5	4608.7	6025.9	7392.0	7403.8	7313.3	6614.5
50°	1679.7	1698.7	2111.4	2536.6	3202.6	4558.8	6311.4	7712.9	7789.6	7671.5	6931.4
52.5°	1520.9	1536.7	1652.1	2310.3	2885.7	4392.2	6510.8	8081.6	8143.9	8040.3	7241.1
55°	1457.9	1465.1	1505.8	1872.6	2619.9	4096.3	6636.8	8357.2	8401.8	8273.2	7497.7
57.5°	1347.7	1354.3	1440.9	1597.0	2396.9	3606.8	6621.1	8628.8	8625.6	8481.9	7763.4
60°	1264.4	1278.2	1351.6	1468.4	2127.8	3017.6	6405.2	8836.8	8869.0	8737.1	7956.9
62.5°	1185.6	1190.9	1253.2	1366.1	1909.4	2587.8	5999.0	8817.8	8953.6	8855.9	8200.4
63°	1163.3	1173.2	1234.8	1344.4	1877.9	2520.2	5889.5	8802.7	9015.3	8919.5	8194.5
65°	1094.4	1095.7	1156.1	1259.8	1727.6	2309.6	5525.3	8603.2	8983.1	8925.4	8296.2
67.5°	963.2	973.0	1026.9	1127.9	1477.0	2041.9	4584.4	8470.7	8774.5	8804.7	8130.2
70°	817.5	823.4	889.7	988.8	1241.4	1732.2	3429.0	8008.8	8312.6	8350.0	7693.8
72.5°	641.0	644.3	716.5	832.0	1015.7	1430.4	2366.0	7203.7	7773.9	7773.9	6947.8
75°	201.4	238.2	501.9	670.6	820.8	1106.9	1554.4	5589.0	6833.0	7002.9	5948.5
77.5°	65.6	70.9	158.8	353.7	517.0	849.7	1032.1	2971.0	4963.7	5430.8	4692.0
80°	47.2	55.1	98.4	265.1	325.4	361.5	639.7	1619.3	2255.8	2956.5	3133.7
82.5°	24.3	31.5	69.6	168.6	185.0	182.4	284.1	765.7	1126.6	1360.8	1625.9
85°	11.2	13.8	30.2	59.1	51.2	47.9	100.4	400.9	635.1	750.6	811.0
87.5°	2.6	3.9	11.2	21.0	13.1	10.5	11.8	127.3	231.6	288.7	298.5
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°	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2	2125.2
2.5°	2107.5	2118.0	2068.1	2043.9	2002.5	1989.4	1969.1	1944.8	1936.9	1956.6	1943.5
5°	2125.9	2111.4	2039.3	1973.7	1918.5	1875.2	1842.4	1801.1	1776.2	1782.1	1786.0
7.5°	2133.1	2100.9	1998.6	1917.9	1824.7	1768.9	1709.2	1650.8	1625.9	1629.8	1632.5
10°	2140.3	2091.8	1971.0	1852.3	1741.4	1655.4	1587.2	1509.8	1472.4	1473.7	1486.1
12.5°	2183.0	2088.5	1948.1	1804.4	1660.7	1553.7	1470.4	1384.4	1331.3	1335.2	1345.1
15°	2243.3	2116.7	1918.5	1733.5	1582.6	1461.2	1357.5	1262.4	1221.7	1227.6	1236.8
17.5°	2295.2	2148.2	1895.6	1658.7	1488.1	1357.5	1263.7	1182.4	1108.2	1119.4	1112.8
20°	2347.7	2192.8	1888.4	1595.7	1406.8	1256.5	1150.2	1084.6	992.7	967.8	959.9
22.5°	2431.6	2242.7	1881.8	1538.0	1310.3	1167.9	1035.4	938.9	807.0	761.8	744.1
25°	2541.9	2314.2	1872.0	1486.1	1230.3	1062.3	882.5	709.3	611.5	553.8	526.9
27.5°	2690.8	2416.5	1886.4	1440.2	1149.5	937.0	669.9	515.1	427.8	377.9	349.7
30°	2940.1	2550.4	1889.7	1398.9	1051.1	747.3	477.0	358.2	284.1	250.0	232.9
32.5°	3488.0	2956.5	1919.2	1351.6	945.5	549.8	332.0	240.1	181.1	159.4	169.3
35°	4064.1	3455.2	2025.5	1284.7	780.1	372.0	219.1	155.5	116.1	119.4	122.7
37.5°	4501.1	3842.3	2248.6	1202.7	586.6	254.6	131.9	106.3	102.4	111.5	128.6
40°	4930.9	4227.5	2447.4	1103.6	397.6	152.9	89.2	97.8	91.9	95.8	97.1
42.5°	5307.5	4534.5	2589.8	957.3	246.1	89.9	78.1	90.5	84.0	82.0	72.2
45°	5671.6	4800.3	2677.7	755.2	141.1	71.5	71.5	86.6	81.4	76.8	65.6
47.5°	5993.8	5097.5	2656.0	521.6	86.0	64.3	66.9	78.1	76.1	70.2	64.3
50°	6290.4	5312.7	2599.6	295.9	75.5	61.0	65.0	65.0	68.2	53.1	48.6
52.5°	6548.9	5503.7	2417.9	158.1	70.2	58.4	58.4	51.8	55.1	40.7	38.7
55°	6814.6	5703.8	2162.0	124.0	66.9	58.4	51.8	45.3	41.3	29.5	31.5
57.5°	7033.1	5851.4	1830.6	111.5	68.9	55.8	47.2	39.4	32.8	23.0	22.3
60°	7235.2	5973.5	1509.1	99.1	74.1	56.4	39.4	32.8	23.0	18.4	16.4
62.5°	7357.2	6001.0	1170.5	89.9	74.1	51.8	35.4	27.6	17.7	12.5	11.8
63°	7361.2	6009.5	1117.4	89.2	75.5	51.8	35.4	26.9	16.4	11.8	11.2
65°	7418.9	5831.7	881.8	87.3	76.8	49.2	33.5	21.7	13.8	9.2	8.5
67.5°	7198.5	5489.2	580.0	86.0	76.8	47.9	29.5	18.4	11.8	7.2	5.9
70°	6615.8	4903.3	355.0	82.7	78.1	47.2	36.7	15.7	10.5	5.2	4.6
72.5°	5812.7	4331.1	204.1	73.5	76.8	38.7	21.0	13.8	9.2	3.9	3.3
75°	4920.4	3481.5	128.6	57.1	59.7	32.2	17.7	12.5	7.9	2.0	2.0
77.5°	3738.7	2505.1	110.2	44.0	35.4	28.2	15.1	9.8	5.2	0.7	0.7
80°	2640.3	1770.3	79.4	27.6	19.7	17.7	11.2	6.6	2.0	0.0	0.0
82.5°	1486.1	967.1	43.3	9.8	5.9	6.6	5.2	2.6	0.0	0.0	0.0
85°	700.8	377.9	21.7	6.6	3.3	2.6	0.7	0.0	0.0	0.0	0.0
87.5°	260.5	91.2	5.2	2.6	2.0	0.7	0.0	0.0	0.0	0.0	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)