

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: P287027

Luminaire Tested: **USSL-C027-D-U-T3-BZ-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-7)
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-T3-BZ-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12193 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

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



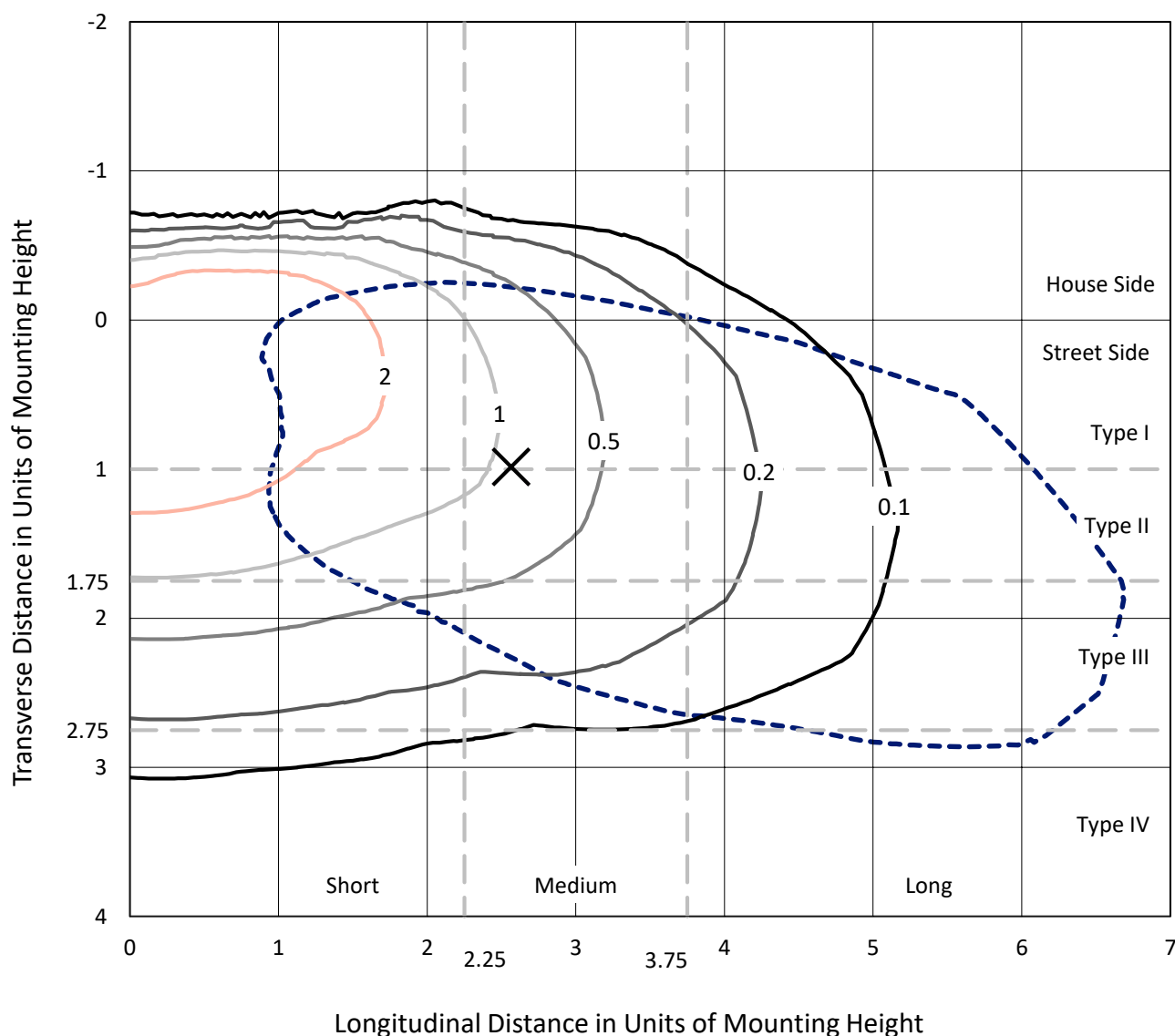
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

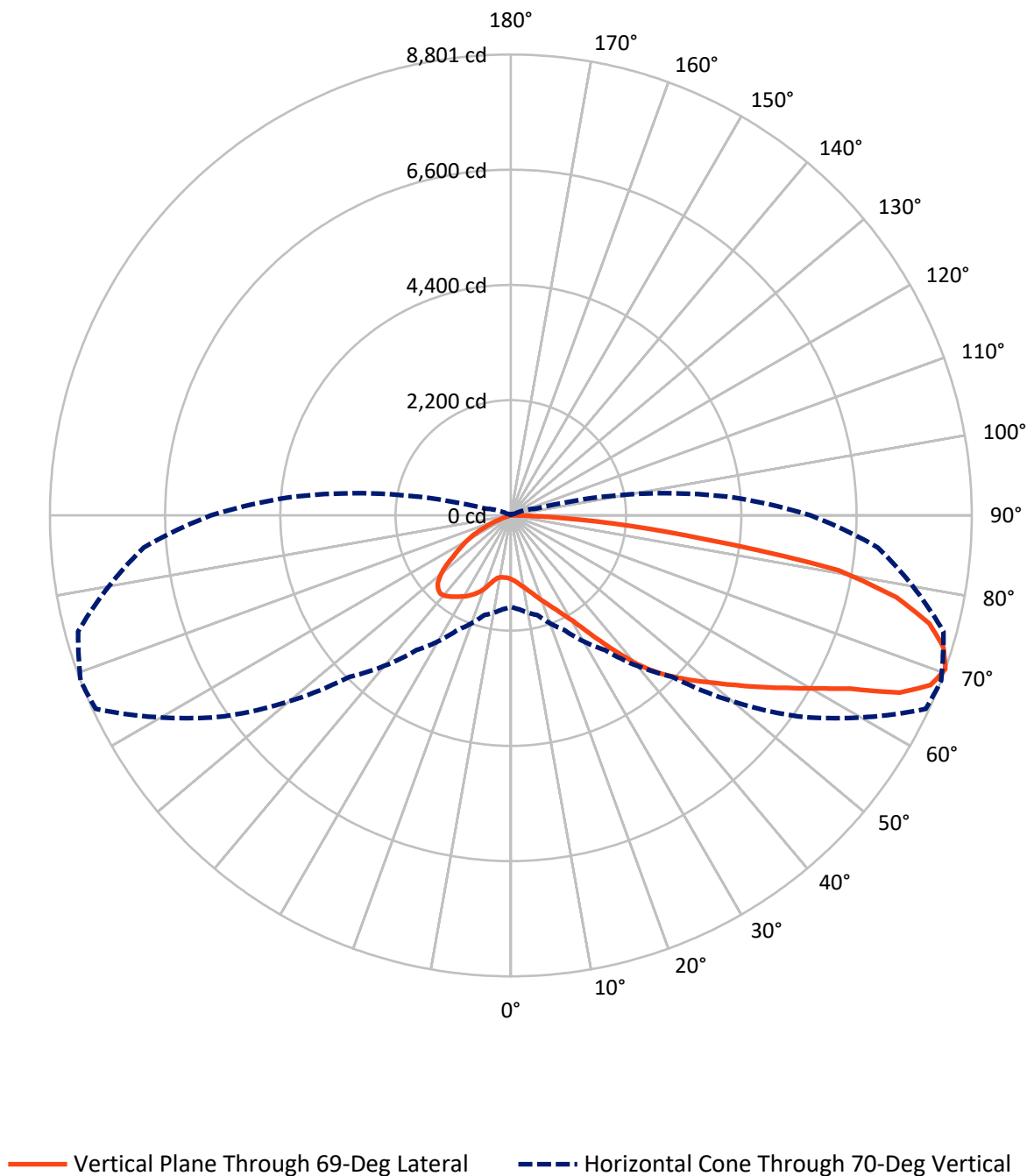


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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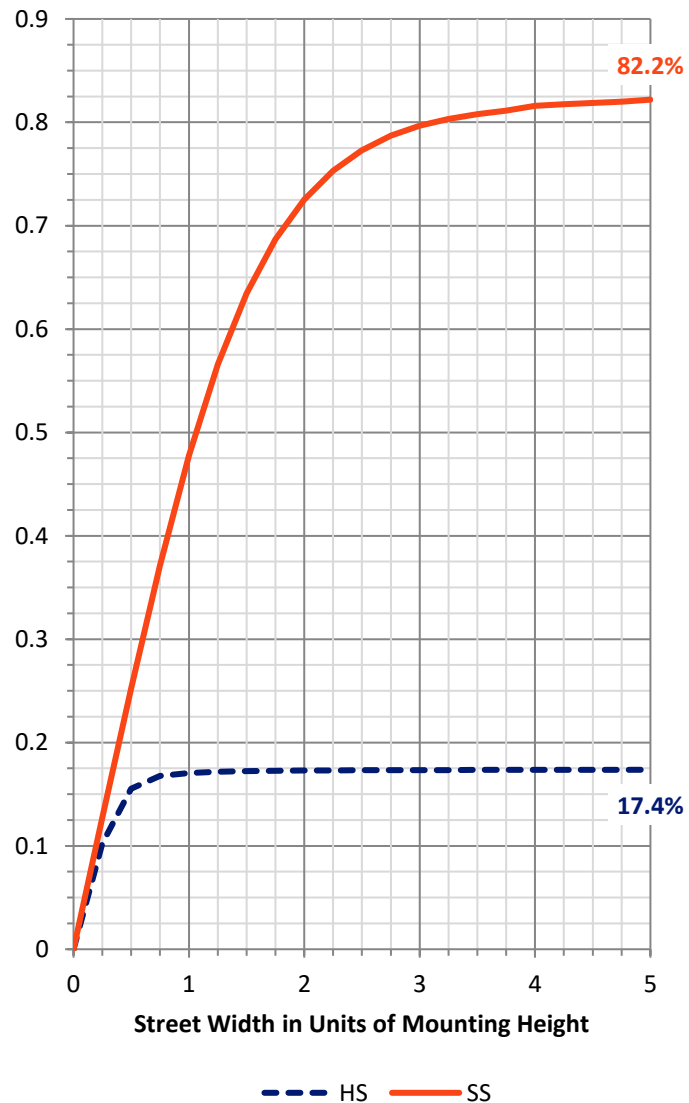
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2141.9	0.0	2141.9
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	10051.1	0.0	10051.1
	% Fixture	82.4	0.0	82.4
Total	Lumens	12193.0	0.0	12193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.0
10°-20°	376.0	3.1
20°-30°	689.7	5.7
30°-40°	1184.6	9.7
40°-50°	1851.3	15.2
50°-60°	2472.4	20.3
60°-70°	2893.4	23.7
70°-80°	2173.6	17.8
80°-90°	433.3	3.6
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°	12193.0	100.0
0°-180°	12193.0	100.0

Coefficient of Utilization



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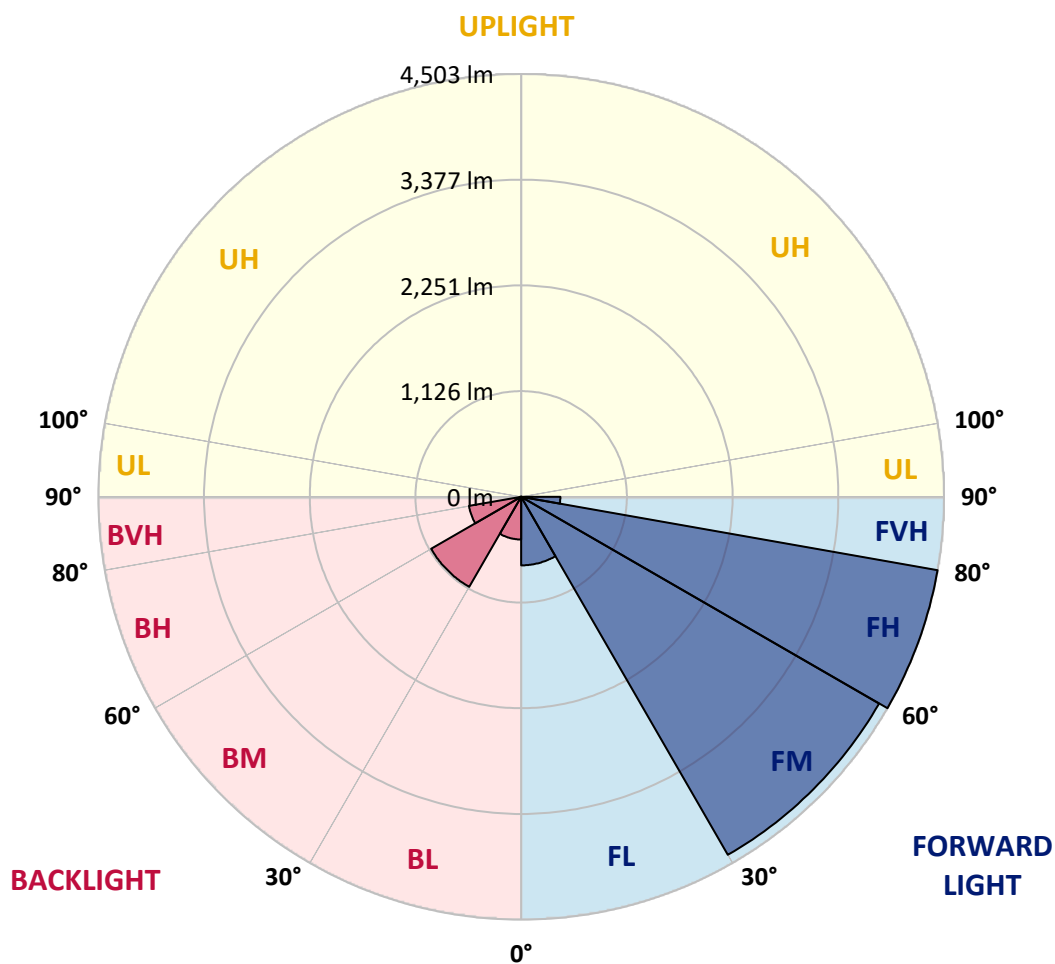
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	729.8	6.0			
FM	(30°-60°)	4401.5	36.1			
FH	(60°-80°)	4502.5	36.9			G2/5000
FVH	(80°-90°)	417.3	3.4			G3/500
BL	(0°-30°)	454.5	3.7	B1/500		
BM	(30°-60°)	1106.9	9.1	B2/2500		
BH	(60°-80°)	564.5	4.6	B2/1000		G2/1000
BVH	(80°-90°)	16.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2
2.5°	1303.8	1313.0	1307.1	1286.1	1282.2	1280.9	1267.1	1255.3	1248.0	1246.1	1223.8
5°	1374.7	1381.9	1379.9	1356.3	1349.8	1334.7	1322.9	1292.0	1287.4	1280.9	1254.0
7.5°	1427.8	1429.2	1441.0	1421.3	1414.7	1396.3	1379.3	1351.1	1345.8	1335.3	1297.3
10°	1477.1	1486.2	1492.8	1467.9	1478.4	1455.4	1435.1	1415.4	1393.7	1393.1	1345.2
12.5°	1508.5	1513.8	1528.2	1508.5	1523.6	1523.0	1504.6	1482.3	1469.8	1458.7	1404.2
15°	1528.2	1534.1	1553.2	1568.3	1573.5	1582.0	1581.4	1564.3	1542.7	1538.7	1482.3
17.5°	1559.1	1564.3	1578.8	1603.0	1621.4	1640.4	1655.5	1656.8	1643.7	1639.1	1587.3
20°	1605.7	1605.0	1612.9	1626.7	1661.4	1703.4	1736.9	1749.4	1744.1	1743.5	1705.4
22.5°	1654.9	1652.3	1660.1	1666.7	1702.8	1773.0	1828.1	1859.6	1861.6	1857.6	1851.1
25°	1733.6	1720.5	1719.8	1727.1	1775.0	1856.3	1928.5	1982.3	1987.6	1998.1	2056.5
27.5°	1933.8	1931.8	1873.4	1823.5	1855.7	1948.2	2054.5	2125.4	2149.6	2189.7	2299.9
30°	2221.8	2210.7	2186.4	2070.2	1983.6	2068.3	2202.1	2311.7	2337.3	2479.7	2578.1
32.5°	2480.3	2467.9	2458.0	2350.4	2231.0	2212.0	2346.5	2533.5	2607.0	2827.5	2901.0
35°	2706.1	2698.9	2698.9	2626.7	2505.9	2423.9	2519.7	2769.7	2946.2	3254.6	3274.3
37.5°	2910.8	2916.7	2924.6	2845.2	2783.5	2757.3	2750.0	3062.4	3325.5	3649.7	3652.3
40°	3091.9	3105.0	3120.8	3063.0	3021.0	3044.0	3001.4	3415.4	3742.8	4094.5	4011.9
42.5°	3233.0	3250.7	3330.1	3250.0	3280.9	3327.5	3318.3	3695.6	4101.1	4420.0	4340.0
45°	3338.0	3351.7	3399.7	3422.6	3496.1	3589.3	3609.6	3983.0	4408.2	4716.6	4607.7
47.5°	3420.0	3410.1	3439.0	3556.5	3711.3	3815.7	3896.4	4312.4	4708.7	4990.9	4841.9
50°	3458.0	3456.7	3528.3	3672.6	3899.0	4048.0	4202.8	4742.2	5023.0	5252.7	5084.1
52.5°	3486.3	3509.2	3622.1	3790.7	4086.0	4289.4	4452.2	5158.2	5380.6	5540.8	5349.8
55°	3507.3	3551.9	3662.8	3855.7	4214.6	4497.4	4714.0	5536.2	5780.9	5813.1	5589.3
57.5°	3376.7	3423.9	3599.1	3874.7	4315.0	4677.2	4983.7	5969.9	6214.6	6195.6	5845.9
60°	3155.6	3193.6	3407.5	3820.3	4327.5	4877.4	5369.5	6452.2	6700.9	6698.2	6149.7
62.5°	2922.0	2956.1	3167.4	3640.5	4244.1	4986.3	5819.6	7175.9	7279.6	7176.6	6426.6
65°	2624.7	2659.5	2869.5	3338.6	4038.8	4980.4	6199.6	7950.2	8158.9	7861.0	6738.3
67.5°	2231.0	2286.8	2476.4	2910.8	3643.1	4790.7	6529.0	8534.2	8645.8	8376.7	6931.8
70°	1745.4	1799.9	1971.2	2414.7	3138.5	4357.0	6691.0	8743.6	8800.6	8551.9	7033.6
72.5°	1219.2	1264.5	1341.9	1725.7	2439.0	3687.7	6681.2	8642.5	8639.9	8387.2	6801.9
75°	434.4	495.4	809.1	1042.7	1420.0	2712.0	6244.2	8226.5	8255.4	8026.4	6324.9
77.5°	112.9	118.1	249.3	503.3	797.9	1311.7	4637.2	7445.0	7523.1	7257.3	5561.1
80°	82.7	86.6	120.1	350.4	456.7	577.4	2543.3	6100.5	6342.6	6204.1	4263.8
82.5°	58.4	63.0	87.9	231.0	301.8	383.9	955.4	3313.0	3697.6	3675.2	2104.4
85°	36.7	40.0	55.1	82.7	114.8	154.2	269.0	1700.8	1951.5	2057.1	920.0
87.5°	17.1	19.7	30.8	49.2	70.2	81.4	81.4	364.8	454.7	482.9	196.2
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°	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2
2.5°	1212.0	1219.8	1202.8	1192.9	1172.6	1162.7	1157.5	1147.7	1145.0	1149.6	1154.2
5°	1240.2	1242.1	1207.4	1177.8	1152.2	1123.4	1109.6	1080.7	1068.3	1072.8	1078.1
7.5°	1276.3	1273.0	1219.8	1175.9	1129.9	1089.9	1061.7	1015.8	1002.6	999.4	1006.6
10°	1310.4	1294.0	1234.9	1175.2	1114.2	1059.1	1015.8	967.2	935.7	931.8	933.1
12.5°	1372.1	1340.6	1272.3	1188.3	1114.8	1054.5	991.5	920.0	883.2	871.4	871.4
15°	1457.4	1404.9	1340.6	1244.1	1156.8	1070.9	981.0	887.8	823.5	795.3	794.6
17.5°	1549.2	1504.6	1436.4	1321.5	1206.7	1084.7	958.0	837.3	752.6	712.6	708.7
20°	1675.9	1650.3	1572.2	1414.7	1254.6	1086.6	929.1	774.9	660.8	606.3	594.5
22.5°	1855.0	1820.2	1689.7	1487.6	1271.0	1070.2	874.0	674.5	534.1	462.6	455.4
25°	2040.1	1986.9	1803.8	1538.7	1283.5	1037.4	794.6	535.4	383.9	316.9	308.4
27.5°	2244.8	2161.4	1901.6	1587.3	1268.4	981.0	654.2	372.7	249.3	206.7	198.2
30°	2482.3	2360.9	2006.6	1620.8	1252.0	866.8	484.3	241.5	161.4	129.9	128.0
32.5°	2776.9	2609.0	2110.3	1637.2	1192.9	717.9	313.0	154.2	99.7	84.0	81.4
35°	3128.6	2894.4	2249.4	1633.9	1096.5	519.7	196.2	90.6	66.3	63.6	63.6
37.5°	3462.0	3205.4	2416.0	1620.1	943.6	331.4	112.2	59.1	57.7	66.3	70.2
40°	3799.3	3509.2	2595.8	1582.7	750.0	199.5	62.3	52.5	55.1	65.0	68.9
42.5°	4092.6	3748.7	2769.7	1501.3	528.2	107.0	55.1	49.2	51.8	56.4	57.1
45°	4329.5	3971.2	2863.6	1387.2	313.0	67.6	52.5	47.2	45.3	47.2	47.9
47.5°	4584.0	4160.8	2939.7	1218.5	169.3	66.3	51.8	44.0	40.0	38.7	40.0
50°	4773.7	4362.3	2966.6	969.2	89.2	63.6	49.2	40.0	36.1	38.7	39.4
52.5°	4956.8	4517.1	2954.1	676.5	75.5	58.4	45.3	37.4	34.1	42.0	44.0
55°	5200.9	4708.1	2864.2	329.4	73.5	55.1	40.7	32.8	32.8	32.8	32.8
57.5°	5424.0	4839.3	2684.4	150.3	70.9	50.5	36.7	29.5	24.9	27.6	28.2
60°	5654.9	5042.1	2378.0	95.8	66.9	44.0	31.5	25.6	21.7	21.7	22.3
62.5°	5883.9	5085.4	1952.1	84.6	63.6	40.0	27.6	22.3	18.4	18.4	19.7
65°	6072.9	5013.2	1437.7	75.5	60.4	36.1	24.9	20.3	15.7	15.1	15.7
67.5°	6001.4	4660.8	933.7	67.6	55.1	32.8	21.7	18.4	14.4	11.8	12.5
70°	5721.9	4130.0	504.6	65.0	49.9	30.2	19.7	16.4	13.1	9.8	9.8
72.5°	5271.7	3480.4	189.6	60.4	45.9	26.2	17.7	16.4	12.5	7.9	7.2
75°	4534.2	2628.0	89.9	54.5	38.7	23.6	17.7	17.1	12.5	5.2	4.6
77.5°	3637.2	1465.9	68.9	45.9	31.5	19.7	17.7	16.4	7.2	2.6	2.0
80°	1954.7	550.5	51.8	33.5	23.0	15.1	16.4	11.8	3.3	0.7	0.0
82.5°	775.6	135.8	36.1	15.1	9.8	6.6	9.2	4.6	0.7	0.0	0.0
85°	195.5	53.2	22.3	7.9	5.2	3.3	1.3	0.0	0.0	0.0	0.0
87.5°	22.3	15.1	6.6	3.9	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)