

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: P286959

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-6)
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
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13972.7 lumens
Efficiency: N/A
Efficacy: 145.5 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

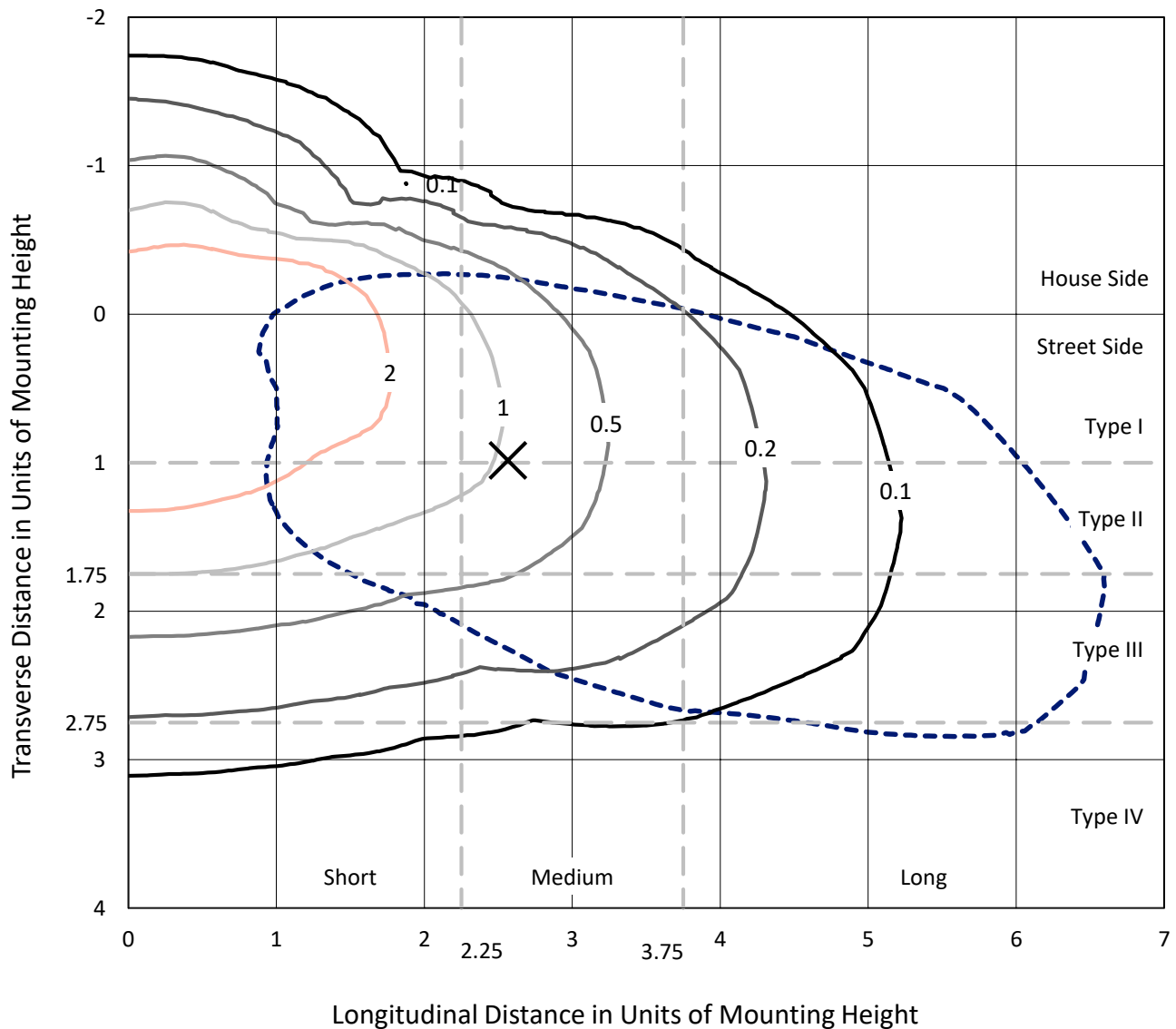


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

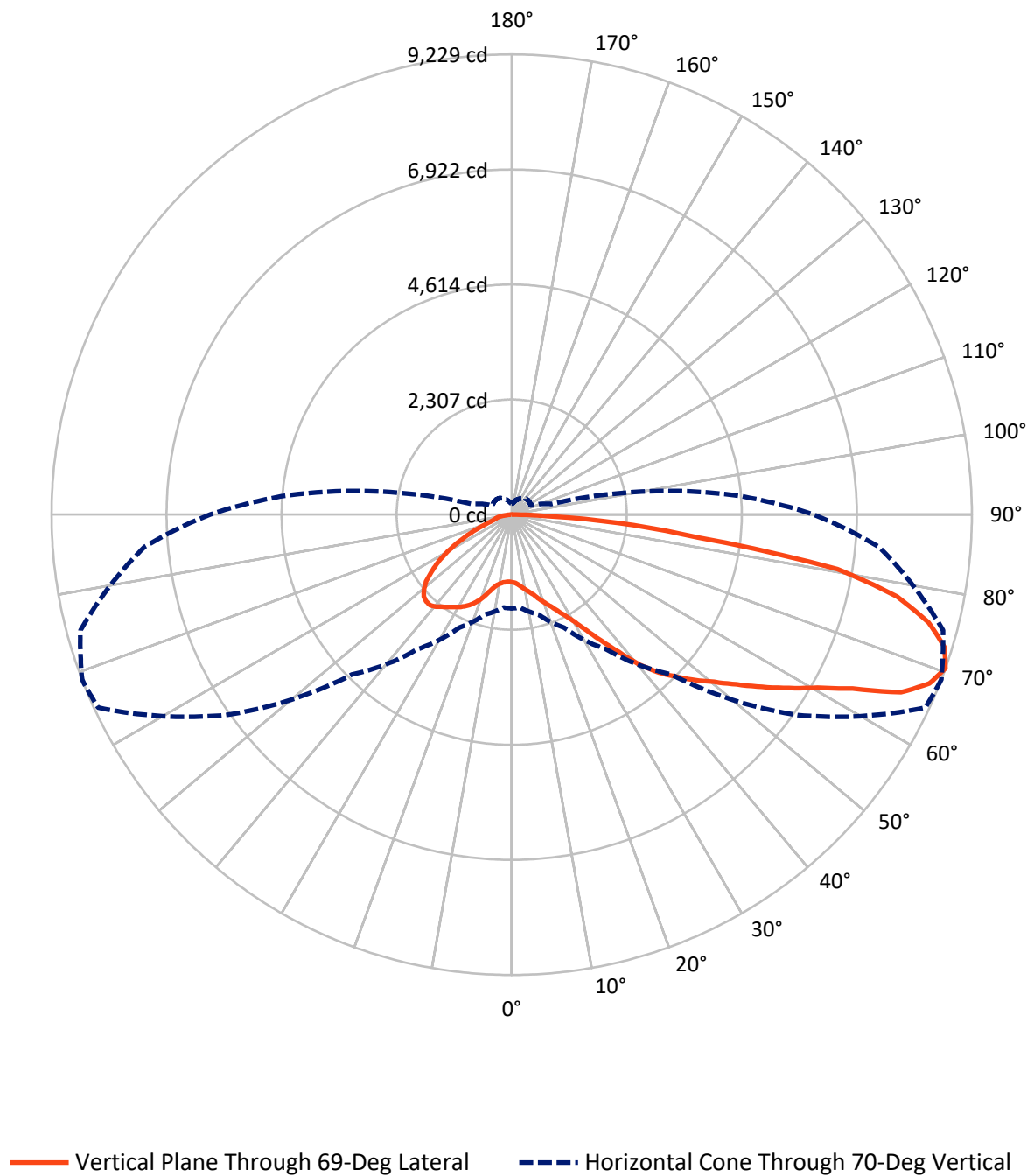


Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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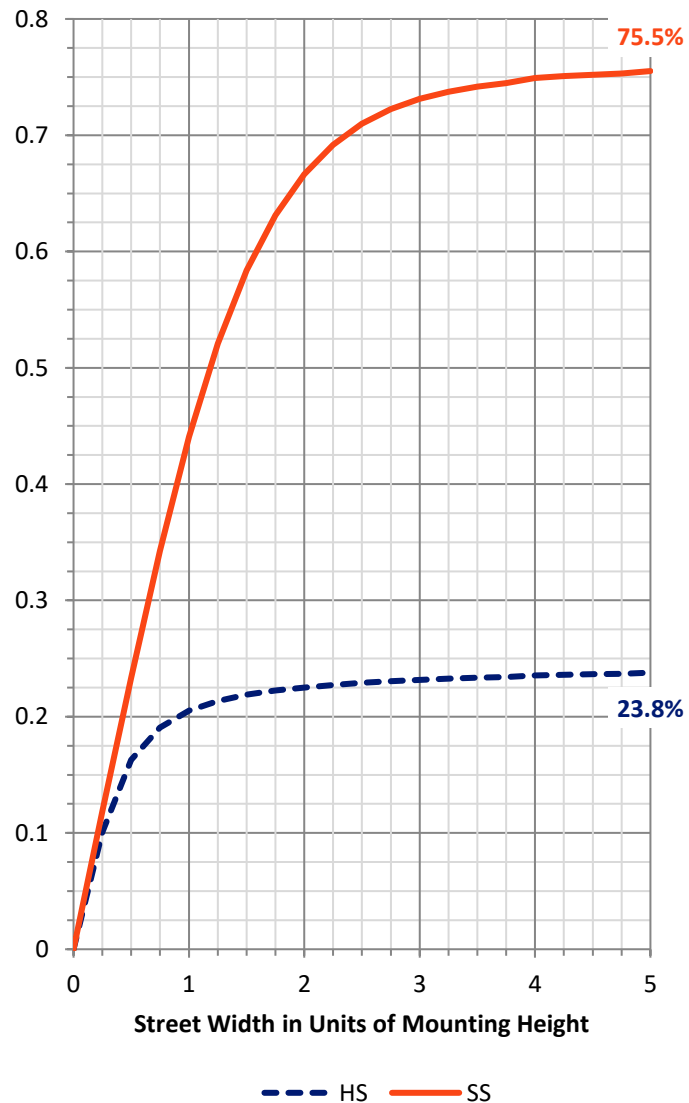
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3389.0	0.0	3389.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	10583.6	0.0	10583.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	13972.7	0.0	13972.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	1.0
10°-20°	441.9	3.2
20°-30°	831.0	5.9
30°-40°	1422.6	10.2
40°-50°	2172.8	15.6
50°-60°	2809.9	20.1
60°-70°	3196.2	22.9
70°-80°	2435.5	17.4
80°-90°	528.3	3.8
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°	13972.7	100.0
0°-180°	13972.7	100.0

Coefficient of Utilization



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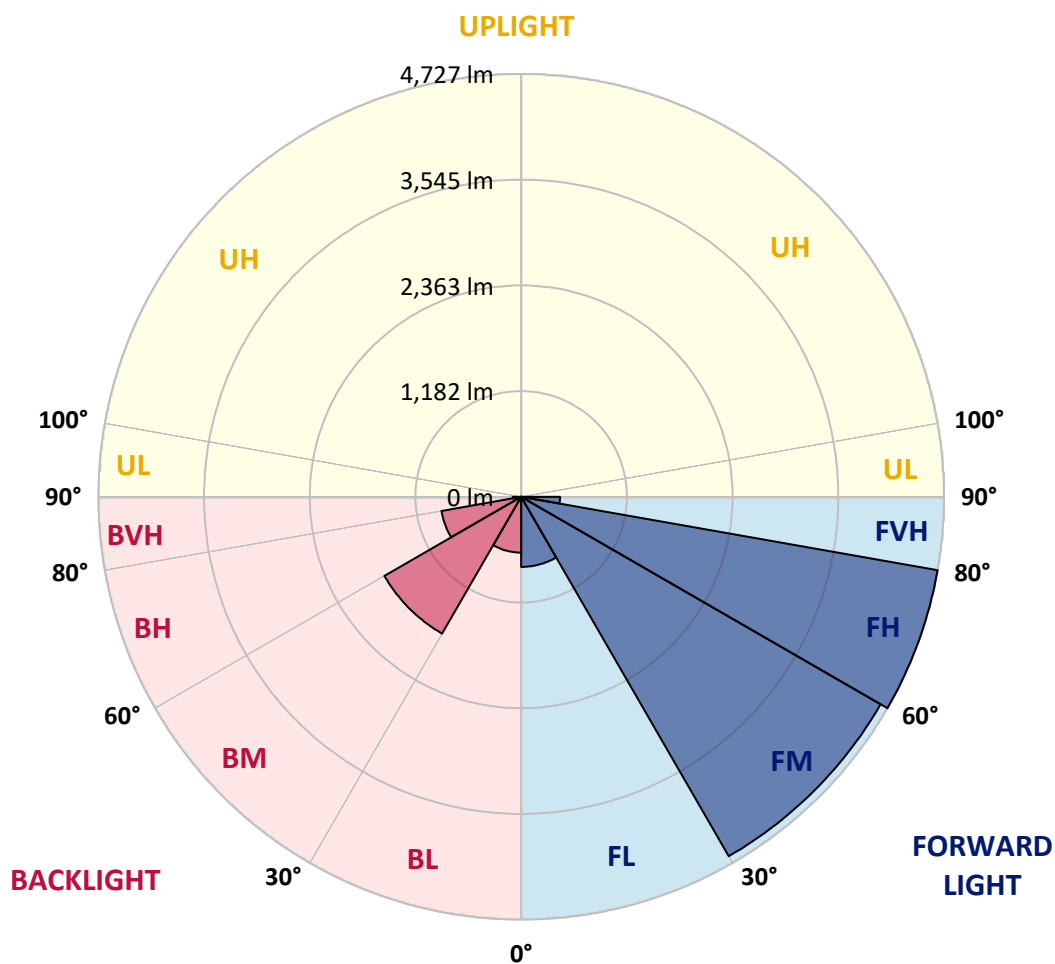
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	783.3	5.6			
FM	(30°-60°)	4639.3	33.2			
FH	(60°-80°)	4726.8	33.8			G2/5000
FVH	(80°-90°)	434.3	3.1			G3/500
BL	(0°-30°)	624.0	4.5	B2/1000		
BM	(30°-60°)	1766.1	12.6	B2/2500		
BH	(60°-80°)	904.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	94.1	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2
2.5°	1439.9	1430.3	1431.0	1406.4	1407.1	1397.5	1392.1	1383.9	1370.2	1375.0	1352.4
5°	1509.5	1496.6	1500.7	1471.2	1470.0	1456.9	1443.3	1418.7	1412.5	1409.8	1390.1
7.5°	1555.3	1552.5	1550.5	1535.5	1534.1	1519.2	1506.1	1479.5	1469.2	1456.9	1431.7
10°	1599.7	1601.7	1603.8	1577.9	1594.2	1576.5	1562.2	1540.2	1526.6	1522.5	1483.5
12.5°	1622.3	1624.3	1635.2	1627.7	1637.2	1646.9	1632.5	1610.0	1596.3	1596.3	1551.2
15°	1642.1	1647.5	1666.0	1672.1	1689.2	1697.4	1708.3	1693.9	1673.5	1670.1	1632.5
17.5°	1675.5	1672.8	1689.2	1716.5	1736.3	1752.0	1782.8	1778.6	1777.3	1768.4	1741.1
20°	1720.6	1715.9	1732.2	1743.9	1774.6	1821.7	1863.4	1884.5	1883.2	1878.4	1854.5
22.5°	1769.8	1765.1	1765.7	1774.6	1816.2	1887.3	1951.5	1991.8	1992.5	1995.2	2017.1
25°	1853.8	1834.1	1827.8	1835.3	1885.2	1971.9	2054.6	2120.9	2133.9	2149.6	2219.2
27.5°	2057.4	2066.9	1983.6	1929.7	1971.3	2077.8	2174.8	2272.5	2293.0	2340.2	2479.5
30°	2373.6	2357.9	2315.6	2198.0	2103.2	2198.0	2334.6	2455.6	2494.5	2614.8	2740.4
32.5°	2612.7	2613.4	2592.8	2493.1	2362.0	2338.8	2493.1	2693.3	2770.5	2993.8	3106.6
35°	2855.2	2844.9	2862.7	2768.5	2652.3	2569.6	2666.0	2930.3	3107.2	3437.8	3498.6
37.5°	3082.6	3086.0	3090.1	2999.3	2944.0	2915.3	2904.3	3237.0	3491.1	3850.4	3888.7
40°	3251.3	3269.8	3282.7	3232.9	3213.1	3214.5	3167.3	3601.0	3952.8	4306.7	4262.9
42.5°	3385.9	3407.0	3501.4	3434.4	3463.1	3520.5	3512.3	3889.3	4327.1	4656.4	4605.8
45°	3498.6	3499.3	3564.9	3591.5	3694.0	3802.6	3811.4	4196.7	4637.3	4972.0	4874.9
47.5°	3576.4	3562.9	3614.0	3722.7	3911.1	4038.9	4123.5	4544.3	4957.6	5254.8	5150.3
50°	3600.4	3619.5	3704.9	3842.9	4094.2	4295.8	4474.0	4984.9	5269.7	5531.4	5373.6
52.5°	3644.8	3652.9	3772.5	3952.8	4280.0	4548.5	4726.1	5439.8	5653.6	5814.8	5646.8
55°	3682.3	3705.5	3819.7	4010.9	4397.5	4753.3	4993.1	5854.5	6095.6	6127.0	5933.0
57.5°	3547.8	3570.3	3773.1	4027.3	4495.1	4918.7	5286.1	6257.4	6557.3	6504.1	6183.0
60°	3299.2	3325.1	3568.3	3982.2	4510.9	5103.1	5670.0	6793.0	7045.0	6980.8	6464.4
62.5°	3073.7	3075.1	3338.0	3788.9	4436.4	5229.4	6136.5	7485.5	7675.5	7562.8	6776.6
65°	2776.6	2773.9	3011.6	3478.1	4226.0	5190.5	6500.6	8331.2	8582.5	8262.9	7075.0
67.5°	2375.0	2366.8	2607.2	3039.6	3835.4	4990.4	6809.3	8906.3	9036.1	8773.9	7313.4
70°	1877.7	1868.8	2072.4	2501.4	3291.0	4533.4	7004.0	9152.2	9228.8	8954.8	7388.6
72.5°	1316.9	1311.4	1433.1	1772.5	2517.7	3814.2	6962.4	9029.3	9077.7	8765.6	7168.0
75°	779.3	777.3	890.7	1084.7	1488.4	2842.2	6491.8	8578.5	8636.5	8353.1	6626.3
77.5°	300.6	278.6	435.1	528.0	846.3	1331.2	4965.8	7769.1	7903.6	7637.2	5838.0
80°	98.4	101.8	305.4	373.0	491.2	596.3	2657.1	6305.2	6624.3	6453.5	4422.1
82.5°	71.8	73.8	189.9	252.0	325.2	404.4	1005.4	3427.6	3763.6	3705.5	2170.8
85°	47.2	47.2	64.9	89.5	121.6	161.8	282.1	1739.7	2132.5	2068.9	940.6
87.5°	25.2	26.0	37.5	53.9	73.1	85.4	90.2	355.9	485.6	422.8	187.8
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°	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2	1357.2
2.5°	1345.6	1359.3	1349.0	1340.9	1327.2	1319.7	1321.7	1314.9	1308.8	1324.5	1316.9
5°	1383.2	1392.1	1365.5	1349.7	1327.8	1309.4	1308.0	1293.0	1285.6	1291.7	1294.3
7.5°	1415.3	1422.1	1386.6	1358.6	1336.7	1314.9	1299.9	1273.9	1263.6	1274.5	1278.7
10°	1470.6	1462.5	1419.4	1387.9	1355.8	1329.2	1304.0	1279.4	1261.0	1261.6	1263.0
12.5°	1533.5	1510.9	1472.6	1428.2	1393.5	1366.7	1332.0	1290.3	1261.0	1260.2	1265.0
15°	1620.9	1593.6	1560.1	1507.5	1468.6	1430.3	1374.3	1301.9	1255.5	1239.0	1232.2
17.5°	1730.2	1693.9	1682.4	1621.5	1557.3	1484.3	1394.8	1306.6	1224.7	1194.0	1195.4
20°	1861.3	1849.7	1834.7	1735.0	1642.7	1519.8	1404.4	1284.8	1174.9	1120.8	1115.4
22.5°	2045.7	2040.3	1969.3	1832.7	1691.3	1543.0	1396.2	1238.4	1105.9	1038.9	1025.2
25°	2258.9	2214.4	2082.6	1915.2	1729.4	1549.1	1363.3	1170.8	1024.6	941.3	937.2
27.5°	2470.6	2392.1	2198.0	1967.2	1732.9	1525.3	1294.3	1078.6	943.9	866.2	855.9
30°	2717.2	2611.3	2314.8	2004.8	1725.4	1465.1	1198.1	1001.4	890.7	813.5	801.9
32.5°	3028.7	2849.0	2430.4	2021.9	1674.9	1384.5	1095.6	967.9	851.7	763.0	749.3
35°	3401.6	3162.5	2586.7	2021.1	1608.6	1259.6	1043.7	948.7	824.5	715.1	694.7
37.5°	3758.8	3513.7	2763.6	2013.0	1502.7	1129.1	1007.5	918.0	806.1	705.6	694.0
40°	4088.0	3801.9	2978.1	1997.9	1378.4	1049.8	967.2	870.2	784.1	714.5	701.5
42.5°	4394.8	4073.7	3170.1	1960.4	1241.8	993.9	912.6	838.1	760.9	672.8	653.0
45°	4672.0	4303.2	3302.5	1871.6	1092.2	931.7	851.1	795.0	718.6	628.4	612.7
47.5°	4903.6	4512.2	3396.1	1752.0	971.3	866.2	780.1	734.3	666.7	584.0	563.5
50°	5106.5	4719.2	3459.6	1548.5	865.4	799.2	709.7	659.8	599.1	540.3	525.9
52.5°	5304.6	4929.0	3533.4	1276.6	765.7	721.3	629.1	573.7	528.0	500.7	491.2
55°	5566.2	5195.9	3533.4	935.8	674.2	659.2	559.4	486.3	454.3	435.1	439.9
57.5°	5802.5	5359.9	3384.6	696.7	616.1	594.9	483.6	411.9	377.7	382.5	396.8
60°	6064.1	5516.4	2969.2	576.5	566.9	506.8	412.5	362.1	344.3	327.2	325.2
62.5°	6243.8	5538.9	2435.8	508.9	517.8	447.4	385.9	333.3	313.5	288.9	283.4
65°	6444.6	5418.0	1832.7	477.5	474.0	424.8	380.5	329.2	301.9	261.6	254.8
67.5°	6370.8	5060.7	1301.2	442.0	443.3	427.6	389.3	328.6	295.7	252.0	247.3
70°	6050.4	4482.2	815.6	425.5	437.1	433.1	405.1	345.6	293.7	228.8	221.9
72.5°	5599.0	3737.6	456.3	394.8	433.7	436.5	424.2	361.3	269.1	187.2	183.0
75°	4858.6	2852.4	326.4	365.5	417.4	435.8	416.0	347.6	246.5	176.3	170.7
77.5°	3798.5	1672.1	287.6	336.7	386.7	389.3	412.5	361.3	256.2	178.9	172.8
80°	2054.0	691.9	241.8	296.5	317.7	368.2	400.2	337.5	237.0	144.1	135.2
82.5°	833.3	195.3	140.8	188.6	257.6	304.0	356.6	298.5	217.2	120.2	113.4
85°	213.1	67.0	65.6	96.3	154.3	227.5	289.6	255.4	176.9	53.3	3.4
87.5°	26.6	21.8	26.0	53.3	100.4	163.2	212.4	184.4	125.7	0.6	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)