

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1461685

Luminaire Tested: USSL-50-8540-U-T3R

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461685
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-8540-U-T3R
Description: USSL DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE III DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7552.2 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 3.35%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

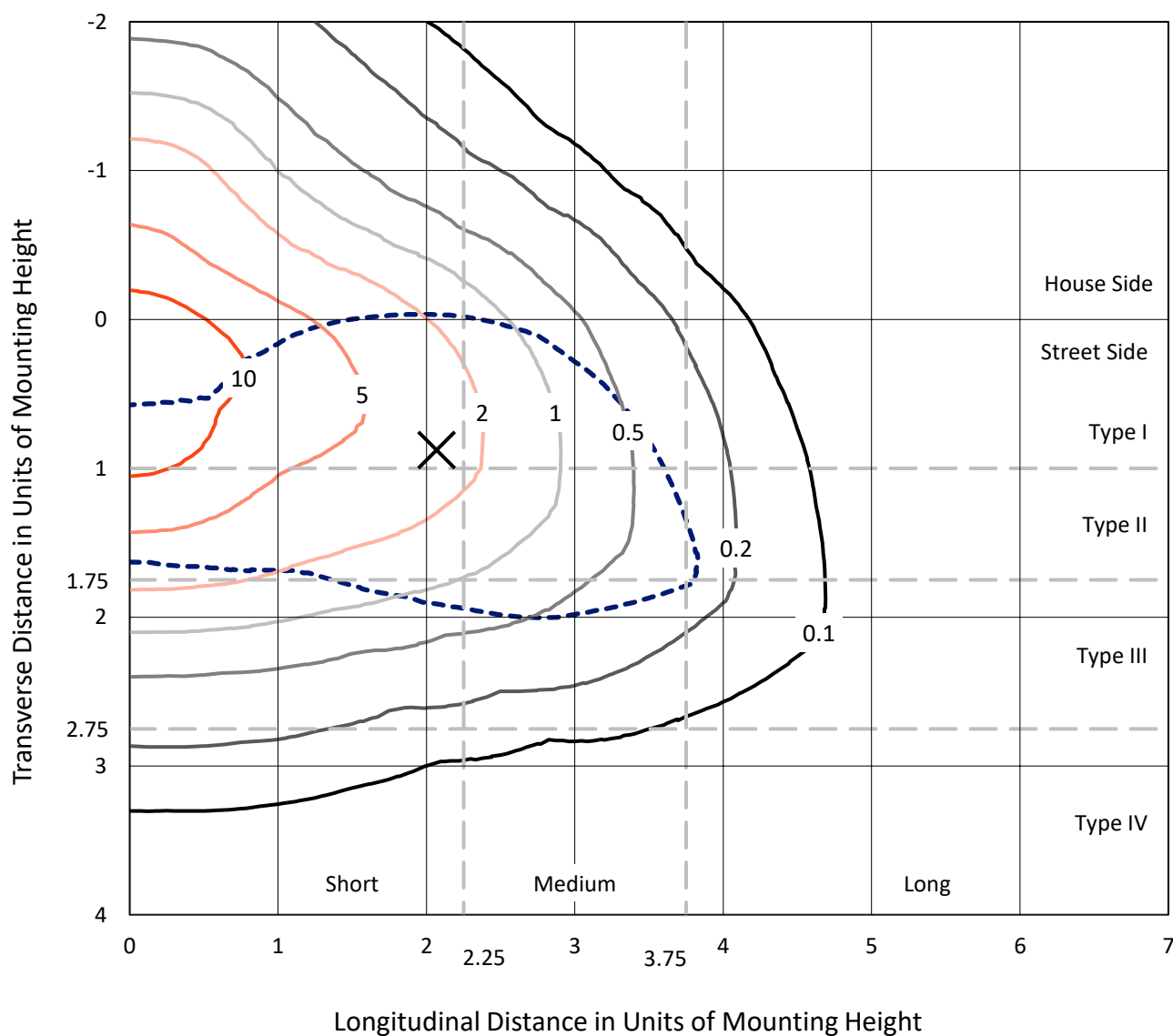
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

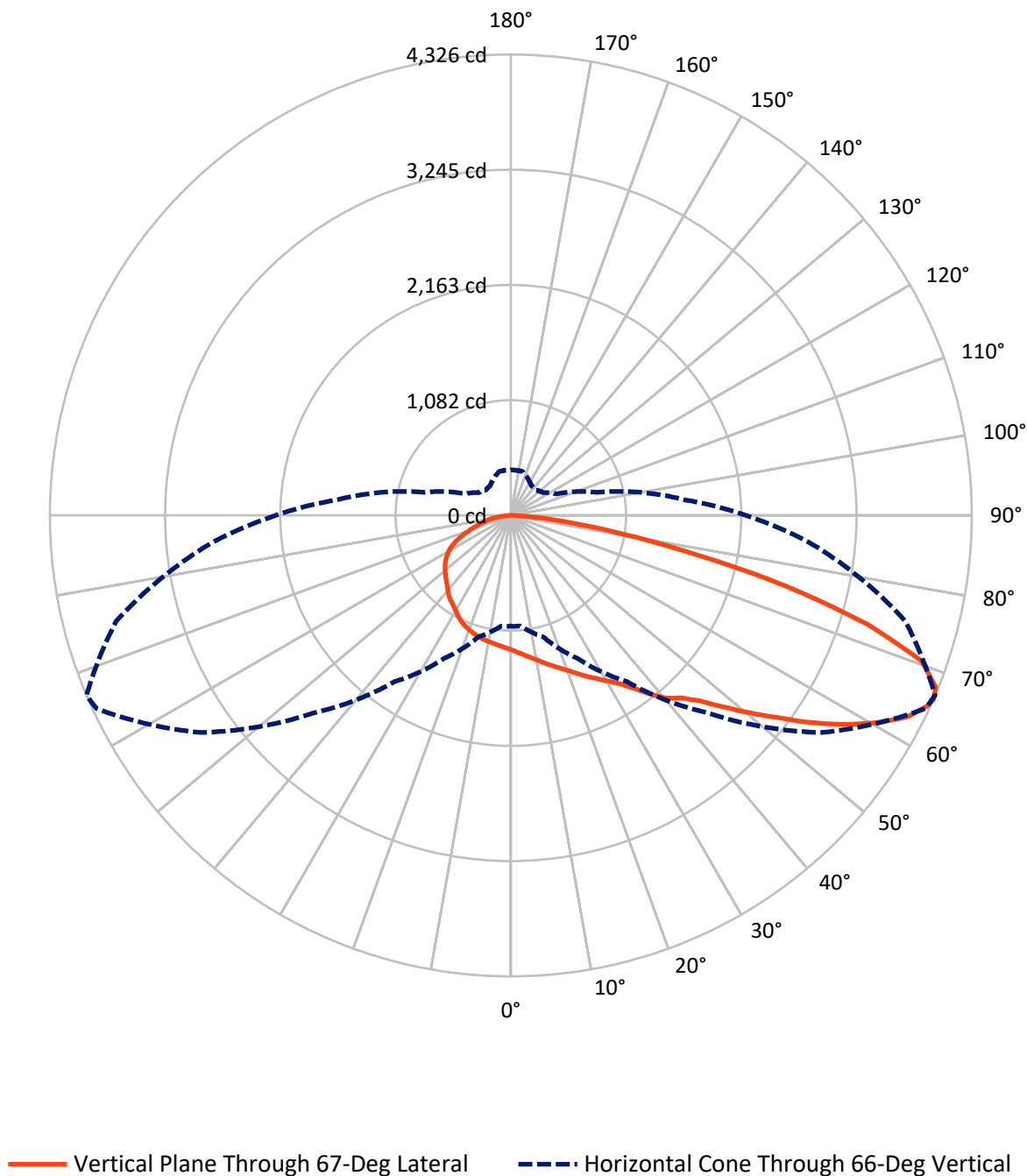


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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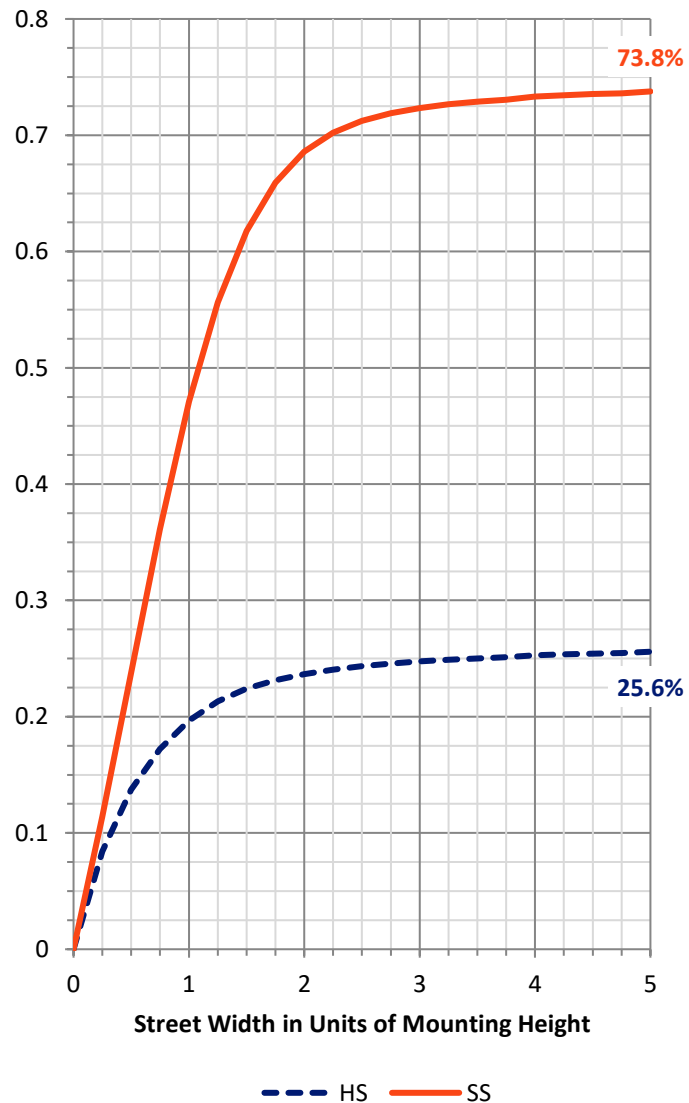
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1957.3	0.0	1957.3
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	5595.0	0.0	5595.0
	% Fixture	74.1	0.0	74.1
Total	Lumens	7552.2	0.0	7552.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	1.6
10°-20°	366.0	4.8
20°-30°	623.0	8.2
30°-40°	973.9	12.9
40°-50°	1346.8	17.8
50°-60°	1615.0	21.4
60°-70°	1558.5	20.6
70°-80°	804.3	10.6
80°-90°	143.2	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°	7552.2	100.0
0°-180°	7552.2	100.0

Coefficient of Utilization



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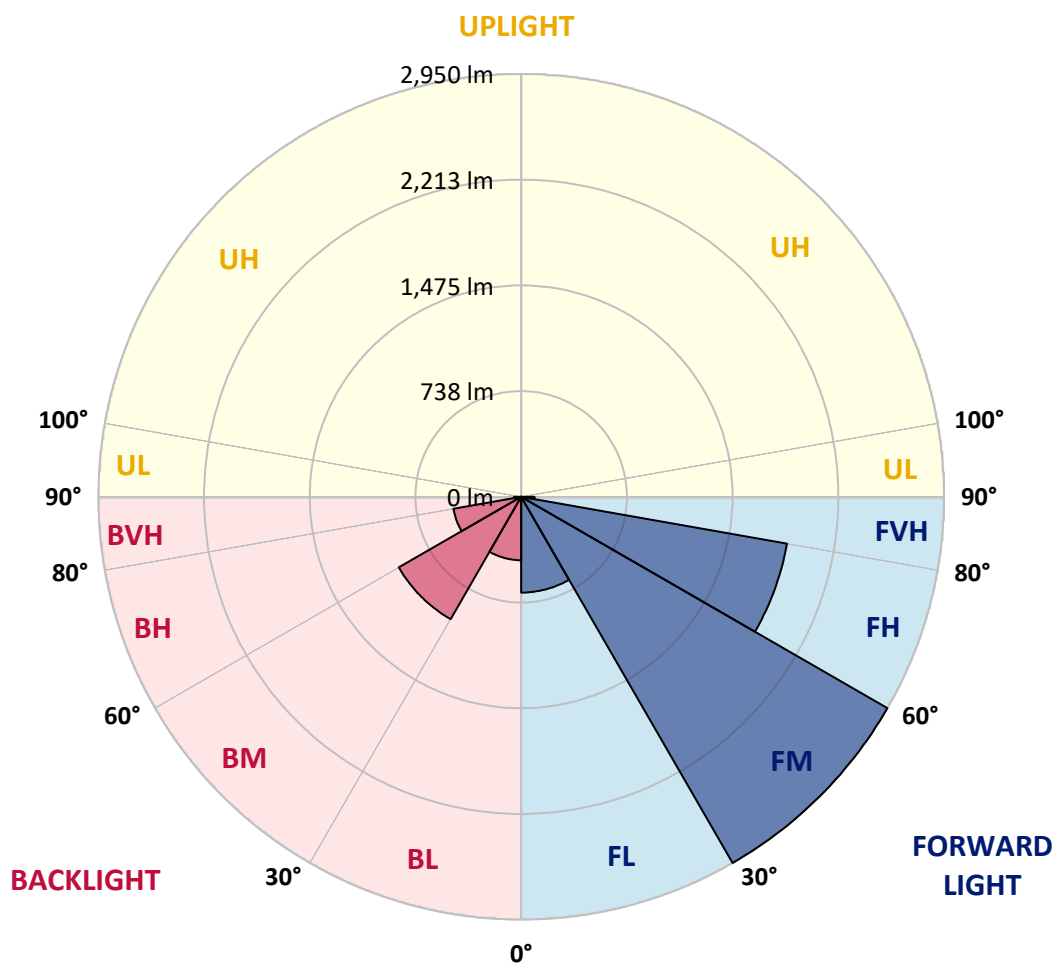
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	668.3	8.8			
FM	(30°-60°)	2950.2	39.1			
FH	(60°-80°)	1882.9	24.9			G2/5000
FVH	(80°-90°)	93.5	1.2			G1/100
BL	(0°-30°)	442.3	5.9	B1/500		
BM	(30°-60°)	985.5	13.0	B1/1000		
BH	(60°-80°)	479.8	6.4	B1/500		G1/500
BVH	(80°-90°)	49.7	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1
2.5°	1313.4	1314.4	1315.1	1313.0	1306.3	1301.8	1298.3	1287.0	1287.4	1280.4	1267.4
5°	1363.6	1368.8	1367.4	1363.6	1355.5	1344.2	1332.0	1314.1	1315.5	1300.4	1277.9
7.5°	1411.3	1418.0	1415.5	1412.3	1403.2	1388.8	1374.4	1348.5	1347.4	1324.6	1290.6
10°	1449.2	1456.2	1456.2	1454.1	1450.2	1433.7	1415.1	1387.1	1381.5	1349.5	1308.8
12.5°	1480.4	1486.7	1491.0	1489.2	1490.6	1479.4	1459.0	1428.5	1422.9	1380.4	1329.2
15°	1499.0	1511.0	1514.1	1519.7	1527.1	1522.5	1508.5	1467.4	1463.9	1416.2	1350.6
17.5°	1518.0	1524.7	1532.4	1546.4	1558.3	1565.4	1551.3	1516.9	1507.8	1450.2	1373.0
20°	1540.1	1552.4	1560.8	1575.5	1592.4	1609.6	1606.4	1565.7	1556.6	1492.7	1400.4
22.5°	1598.7	1607.5	1611.3	1621.5	1641.5	1658.7	1660.8	1625.0	1613.8	1544.3	1433.0
25°	1716.6	1726.5	1711.7	1700.5	1694.9	1710.0	1720.5	1687.5	1675.2	1595.6	1465.0
27.5°	1926.5	1926.2	1883.4	1837.7	1788.9	1771.0	1778.4	1750.3	1737.0	1645.4	1502.2
30°	2164.8	2176.4	2140.3	2029.7	1914.9	1842.6	1847.2	1815.6	1805.4	1705.8	1545.4
32.5°	2414.0	2420.7	2377.5	2271.2	2086.2	1953.2	1926.2	1899.8	1885.1	1786.1	1601.2
35°	2535.1	2548.5	2525.3	2423.5	2237.1	2088.7	2042.3	2014.3	1994.3	1881.2	1673.1
37.5°	2691.7	2711.0	2706.4	2561.8	2331.2	2197.1	2164.5	2137.1	2128.3	2000.2	1764.4
40°	2922.3	2921.5	2931.7	2700.8	2431.2	2272.2	2273.3	2274.3	2257.1	2098.2	1832.1
42.5°	3033.9	3030.7	2996.7	2777.6	2547.8	2346.3	2359.6	2358.2	2340.3	2172.6	1885.8
45°	3067.9	3064.0	2983.0	2836.6	2730.3	2429.8	2468.1	2496.9	2482.1	2308.0	1992.9
47.5°	3044.0	3036.3	2991.7	2871.7	2830.3	2576.9	2592.3	2686.4	2683.6	2476.9	2117.1
50°	2984.7	2963.3	2950.0	2884.3	2801.2	2642.5	2746.1	2920.5	2913.8	2683.9	2249.8
52.5°	2853.8	2851.0	2867.9	2824.7	2740.8	2672.0	2914.2	3155.3	3156.7	2894.5	2383.5
55°	2691.0	2680.8	2733.8	2730.3	2677.6	2730.6	3079.5	3424.9	3434.7	3112.1	2527.0
57.5°	2300.0	2311.5	2537.9	2601.5	2611.6	2790.6	3256.0	3679.3	3699.7	3332.5	2649.9
60°	1917.7	1940.2	2103.1	2389.8	2508.4	2821.9	3421.3	3938.3	3946.8	3553.3	2761.5
62.5°	1589.9	1583.3	1732.1	2055.7	2342.4	2809.6	3538.2	4138.7	4169.3	3729.2	2825.4
65°	1179.3	1195.1	1356.5	1643.3	2061.3	2693.4	3575.1	4277.4	4302.7	3826.7	2822.9
66°	1040.0	1042.8	1181.4	1480.4	1904.8	2621.5	3551.6	4290.4	4326.2	3833.7	2793.1
67.5°	859.5	863.4	973.6	1218.2	1658.0	2464.9	3461.7	4266.5	4300.9	3794.8	2699.4
70°	610.4	631.1	690.0	854.6	1168.8	2005.1	3172.9	4008.2	4086.8	3547.7	2426.0
72.5°	441.9	447.5	495.2	580.5	734.6	1336.9	2625.7	3451.9	3502.4	2966.8	1933.9
75°	315.2	322.2	362.6	396.6	486.1	824.8	1851.4	2703.9	2692.0	2122.7	1317.6
77.5°	245.0	250.2	265.0	283.2	326.4	471.7	1114.4	1827.2	1801.2	1330.6	821.3
80°	199.0	200.4	195.8	203.2	225.0	297.3	637.7	1091.2	1068.0	750.7	497.3
82.5°	155.1	156.9	153.4	148.5	159.3	200.8	372.4	577.0	573.9	435.2	269.6
85°	99.3	103.2	99.0	92.0	99.3	122.1	196.2	246.0	236.6	196.9	102.5
87.5°	55.5	54.8	50.2	40.4	35.1	44.2	54.8	55.1	53.0	46.3	28.1
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°	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1	1262.1
2.5°	1264.6	1262.1	1251.9	1242.8	1233.3	1227.7	1219.3	1215.4	1210.9	1207.0	1203.5
5°	1271.6	1263.2	1243.9	1226.0	1208.8	1197.5	1182.4	1175.1	1166.7	1163.5	1159.3
7.5°	1280.0	1263.9	1237.9	1210.2	1187.0	1166.3	1147.0	1135.4	1125.9	1123.1	1122.8
10°	1290.9	1271.2	1232.6	1196.5	1164.2	1136.1	1111.6	1094.0	1083.5	1079.6	1077.9
12.5°	1303.9	1277.9	1229.1	1183.2	1141.0	1106.6	1076.1	1054.0	1043.8	1037.5	1038.2
15°	1319.3	1286.3	1225.3	1167.7	1114.4	1073.3	1036.1	1010.8	998.9	994.3	993.6
17.5°	1335.5	1294.1	1221.1	1149.5	1084.9	1034.3	995.4	966.9	951.9	950.8	953.6
20°	1354.1	1305.6	1216.1	1128.7	1054.0	996.1	952.9	928.0	912.9	911.5	917.1
22.5°	1375.8	1316.9	1208.8	1104.9	1019.6	956.4	913.9	890.1	878.1	879.6	884.1
25°	1400.4	1329.2	1199.3	1078.2	981.3	915.0	875.7	858.8	851.5	854.3	860.6
27.5°	1424.6	1342.8	1184.9	1045.2	940.3	877.1	849.0	836.7	834.6	839.9	847.3
30°	1454.5	1356.2	1167.7	1006.3	896.0	844.1	824.1	821.3	823.4	828.0	836.4
32.5°	1495.9	1383.2	1155.8	970.5	857.1	811.5	808.0	812.5	818.1	824.1	833.6
35°	1551.7	1417.6	1152.6	941.0	821.6	785.5	794.3	812.5	822.0	829.0	838.1
37.5°	1621.9	1459.7	1148.1	913.6	788.3	759.5	784.8	817.4	830.1	833.6	840.6
40°	1661.2	1472.0	1115.4	877.8	756.4	736.7	775.0	818.5	829.4	834.6	840.6
42.5°	1697.3	1478.0	1084.9	841.6	731.4	713.2	758.1	805.8	823.7	846.6	854.3
45°	1767.2	1516.9	1072.6	809.4	705.5	686.9	725.5	776.0	821.3	846.6	852.9
47.5°	1857.7	1560.5	1060.7	779.5	676.3	651.4	675.6	753.6	804.1	823.4	825.9
50°	1951.8	1599.4	1044.9	751.1	640.2	603.3	633.5	720.9	774.6	783.7	785.8
52.5°	2036.7	1635.2	1029.4	721.3	602.3	556.0	590.0	675.3	723.7	726.2	731.4
55°	2121.7	1669.6	1010.5	690.0	557.0	507.2	540.5	615.6	653.9	650.0	650.0
57.5°	2188.4	1700.5	993.3	651.4	514.5	465.0	489.3	548.2	584.4	580.9	577.7
60°	2244.5	1720.5	972.9	606.5	471.7	424.3	439.4	491.7	526.8	519.1	519.1
62.5°	2267.0	1720.9	939.6	558.8	427.8	385.0	394.9	441.5	481.2	476.6	479.4
65°	2241.4	1688.2	870.1	500.1	386.4	347.5	355.5	395.6	442.2	440.8	443.6
66°	2205.9	1650.3	832.9	476.3	371.7	335.9	338.7	379.8	426.1	426.8	426.4
67.5°	2128.7	1582.2	766.2	442.2	347.8	313.8	317.3	358.3	404.3	400.8	402.2
70°	1930.7	1361.4	629.3	381.9	312.0	278.0	283.6	326.1	360.1	356.6	355.9
72.5°	1543.3	1027.3	508.2	326.1	275.9	246.4	254.8	284.3	326.4	324.7	325.7
75°	1023.5	671.4	399.8	274.5	238.0	221.5	222.2	247.4	288.2	293.4	296.6
77.5°	637.4	459.4	321.5	230.6	199.7	185.3	186.7	213.4	246.7	249.2	252.0
80°	408.9	338.7	253.4	187.1	152.7	149.5	154.1	178.6	206.4	208.5	207.1
82.5°	246.7	219.4	189.5	133.7	117.9	117.9	124.2	143.6	153.7	119.3	111.6
85°	98.3	114.1	103.2	73.7	75.8	77.6	81.4	97.2	102.5	54.1	42.5
87.5°	22.8	31.2	30.5	21.4	23.5	25.6	25.3	41.1	51.2	23.2	13.3
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)