

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: P1461373

Luminaire Tested: USSL-50-8540-U-T4W

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461373
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-8540-U-T4W
Description: USSL DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE IV WIDE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7416.5 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type IV - 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

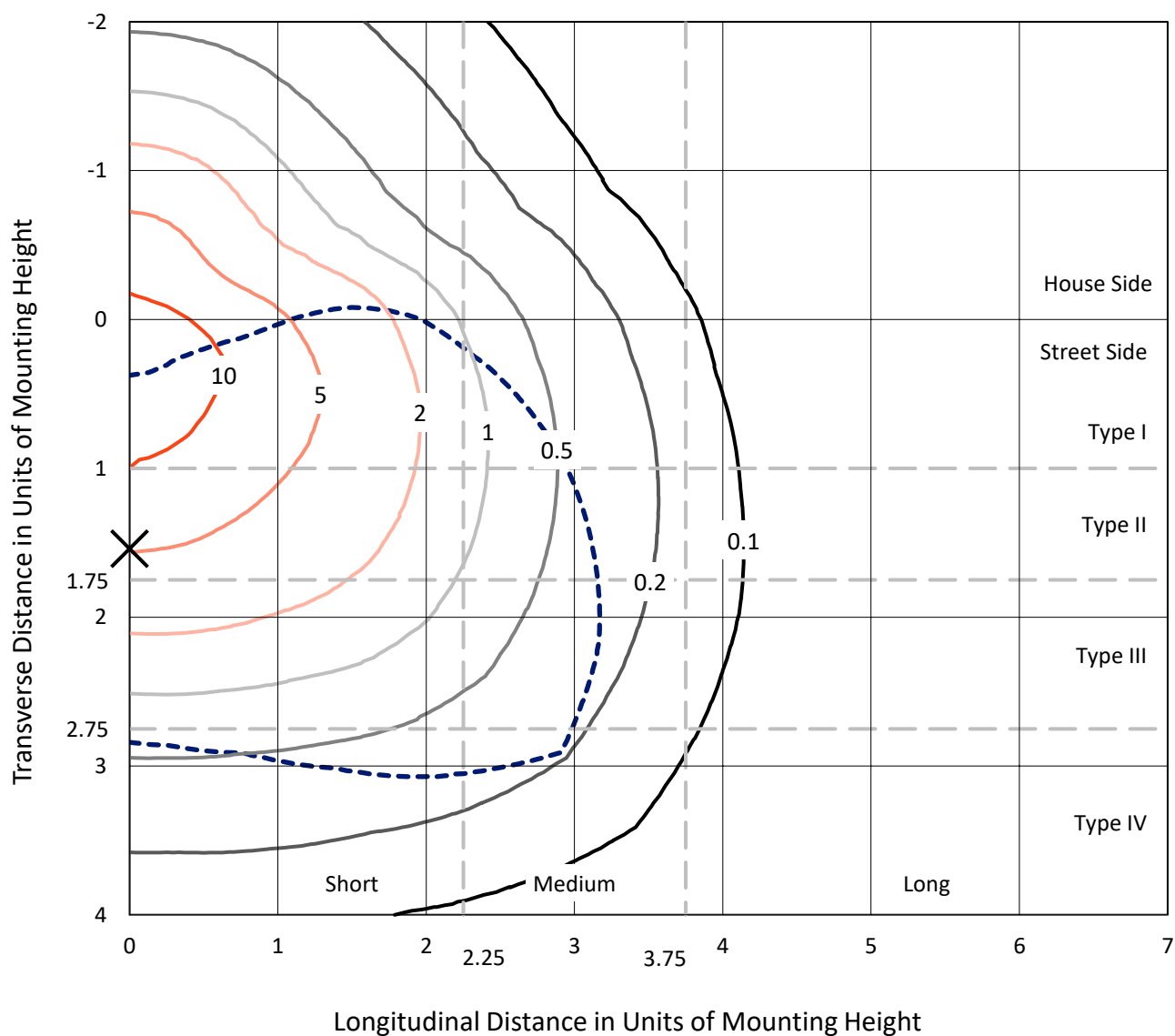
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



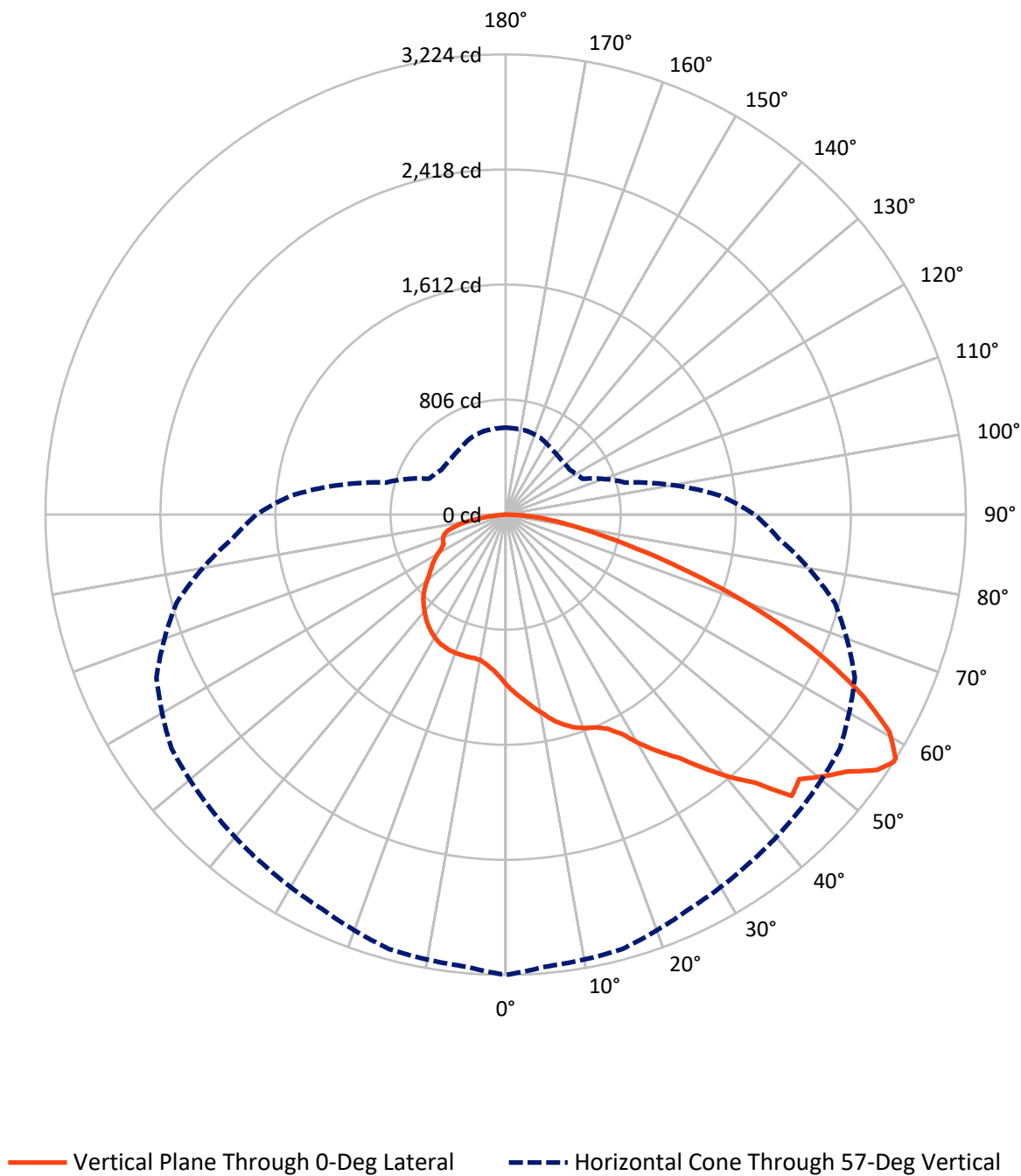
Based on 10 foot mounting height. Maximum calculated value = 13.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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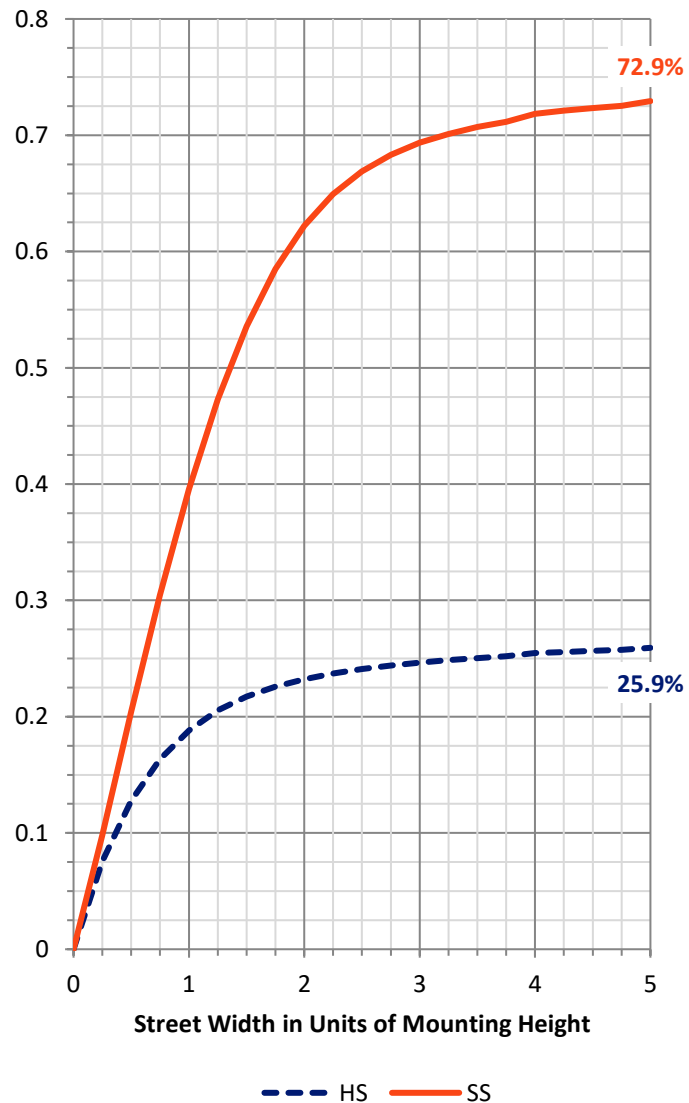
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1955.5	0.0	1955.5
	% Fixture	26.4	0.0	26.4
Street Side	Lumens	5461.0	0.0	5461.0
	% Fixture	73.6	0.0	73.6
Total	Lumens	7416.5	0.0	7416.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	1.5
10°-20°	353.4	4.8
20°-30°	605.5	8.2
30°-40°	890.9	12.0
40°-50°	1225.9	16.5
50°-60°	1546.9	20.9
60°-70°	1567.5	21.1
70°-80°	900.2	12.1
80°-90°	211.5	2.9
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°	7416.5	100.0
0°-180°	7416.5	100.0

Coefficient of Utilization



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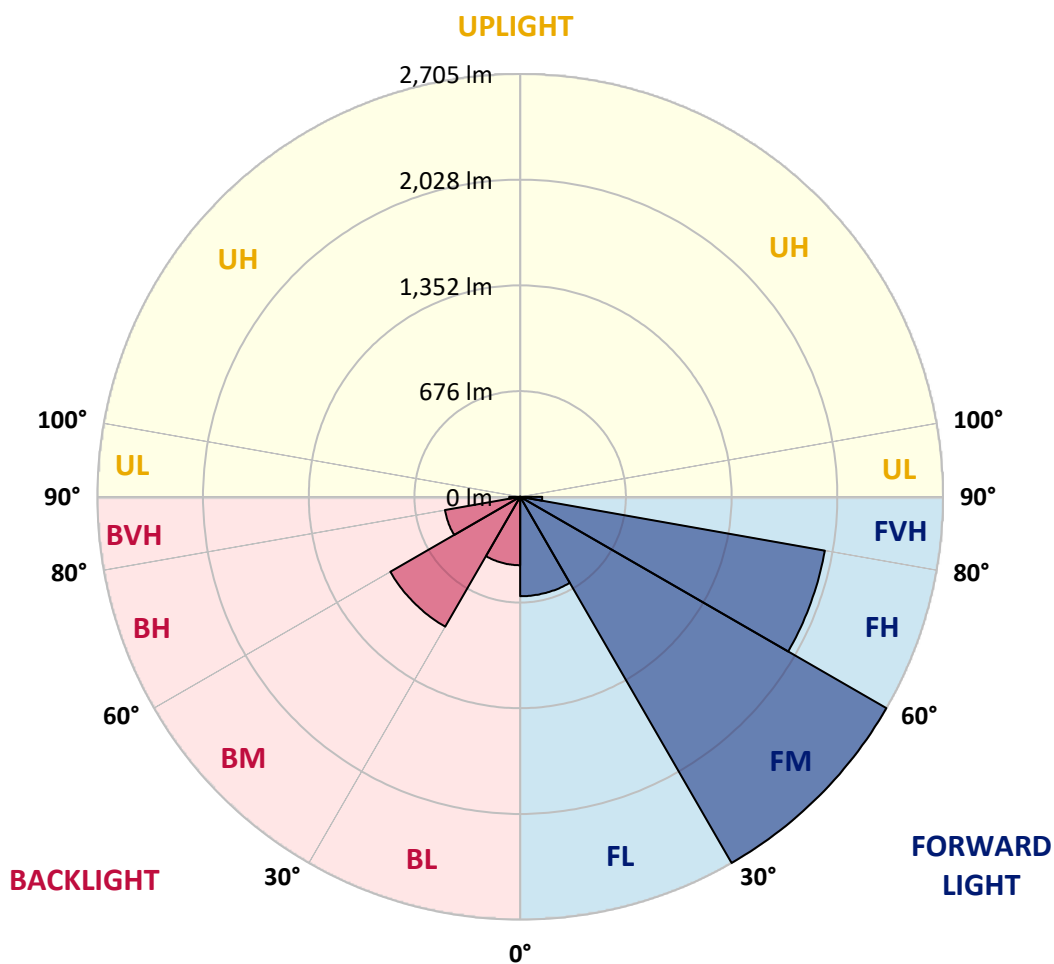
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	635.7	8.6			
FM	(30°-60°)	2704.6	36.5			
FH	(60°-80°)	1979.1	26.7			G2/5000
FVH	(80°-90°)	141.6	1.9			G2/225
BL	(0°-30°)	437.8	5.9	B1/500		
BM	(30°-60°)	959.1	12.9	B1/1000		
BH	(60°-80°)	488.6	6.6	B1/500		G1/500
BVH	(80°-90°)	70.0	0.9			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3
2.5°	1250.1	1253.2	1250.4	1245.5	1237.8	1233.2	1230.7	1218.5	1210.7	1203.0	1196.0
5°	1300.6	1305.1	1304.1	1293.6	1285.8	1276.4	1261.3	1242.0	1225.1	1204.4	1193.9
7.5°	1359.5	1359.5	1351.8	1345.5	1328.3	1313.9	1294.6	1268.6	1240.2	1212.1	1194.3
10°	1414.6	1418.2	1412.2	1400.3	1379.9	1359.2	1331.8	1303.0	1262.7	1224.1	1202.3
12.5°	1477.8	1477.8	1471.1	1452.5	1434.3	1405.2	1372.5	1334.3	1291.5	1241.3	1213.6
15°	1526.2	1528.0	1523.1	1511.1	1488.3	1461.3	1416.4	1372.2	1315.3	1257.8	1223.0
17.5°	1568.0	1567.7	1563.4	1555.4	1542.7	1515.4	1466.9	1409.7	1343.4	1272.2	1233.6
20°	1595.0	1597.5	1594.0	1598.2	1590.1	1567.3	1519.2	1451.5	1375.0	1289.4	1245.5
22.5°	1619.6	1619.9	1622.7	1627.3	1628.0	1617.8	1578.2	1501.3	1408.7	1309.4	1256.7
25°	1662.1	1659.9	1660.3	1660.3	1667.7	1668.0	1635.4	1562.0	1451.8	1335.7	1275.7
27.5°	1740.7	1737.5	1721.7	1710.5	1710.5	1719.3	1699.3	1625.2	1499.6	1361.6	1293.6
30°	1865.2	1858.9	1827.0	1786.3	1771.9	1780.3	1765.2	1695.4	1549.8	1393.9	1311.8
32.5°	1980.7	1979.7	1948.8	1897.9	1864.2	1853.0	1839.6	1771.9	1612.6	1427.6	1338.1
35°	2092.3	2090.6	2057.9	2029.8	1982.5	1941.1	1913.3	1834.7	1660.7	1459.6	1362.0
37.5°	2251.6	2243.6	2205.3	2171.6	2101.4	2010.2	1979.7	1911.9	1731.5	1504.1	1402.7
40°	2416.9	2408.5	2343.6	2298.0	2223.6	2117.6	2061.1	2000.4	1801.0	1558.5	1449.4
42.5°	2569.2	2558.0	2492.4	2406.4	2324.3	2231.3	2161.4	2083.5	1888.8	1613.6	1495.4
45°	2811.0	2724.7	2646.1	2579.1	2432.0	2342.2	2270.2	2191.6	1982.5	1677.1	1550.5
47.5°	2768.6	2751.4	2747.5	2747.2	2539.8	2462.5	2386.4	2293.0	2077.2	1738.6	1603.1
50°	2883.0	2859.8	2903.7	2843.7	2642.9	2583.3	2504.0	2401.1	2172.7	1795.1	1654.7
52.5°	2991.1	2994.6	2983.0	2874.6	2760.5	2694.9	2631.7	2513.8	2260.4	1851.9	1699.6
55°	3158.1	3124.1	3090.0	2985.8	2881.9	2809.3	2765.4	2617.3	2338.7	1899.6	1731.9
57°	3224.4	3178.8	3151.1	3046.9	2979.5	2919.8	2858.1	2699.8	2387.4	1920.0	1745.9
57.5°	3222.3	3180.2	3163.0	3052.5	2995.6	2943.7	2873.1	2713.1	2392.7	1918.6	1743.1
60°	3090.7	3083.7	3147.6	3057.4	3056.7	3043.4	2963.0	2767.9	2405.0	1898.2	1712.9
62.5°	2819.1	2849.6	2977.7	3014.6	3102.7	3131.4	3003.0	2749.3	2350.2	1821.0	1635.4
65°	2485.4	2542.9	2700.8	2874.9	3095.6	3183.7	2994.9	2651.0	2220.4	1681.4	1489.4
67.5°	2103.9	2157.9	2341.5	2611.7	2976.3	3102.3	2890.3	2466.1	2008.8	1491.1	1302.0
70°	1697.1	1738.2	1890.5	2208.1	2682.6	2864.0	2612.1	2187.4	1714.7	1259.9	1081.2
72.5°	1292.5	1308.3	1451.1	1750.5	2207.4	2433.4	2173.0	1797.9	1417.8	1009.7	869.6
75°	937.7	953.9	1074.9	1258.5	1605.6	1894.7	1693.3	1397.1	1079.5	769.3	667.1
77.5°	669.9	687.5	754.9	861.2	1098.4	1345.2	1201.6	1020.2	744.3	504.0	462.5
80°	475.9	482.9	553.4	594.5	713.1	866.5	826.5	704.0	476.6	336.9	309.5
82.5°	328.1	333.7	393.1	414.1	460.8	548.5	548.5	479.7	302.2	219.7	209.9
85°	194.1	195.1	242.1	262.2	269.5	326.0	335.1	260.7	166.0	99.3	98.3
87.5°	72.3	71.9	110.5	101.1	88.4	99.3	115.1	78.6	57.2	25.6	19.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3	1195.3
2.5°	1188.6	1180.6	1175.3	1166.5	1159.2	1150.4	1147.9	1140.2	1139.2	1137.0
5°	1183.0	1164.1	1145.8	1129.7	1118.1	1106.9	1100.9	1093.9	1089.7	1092.1
7.5°	1181.6	1152.8	1123.4	1102.0	1085.1	1068.3	1061.6	1058.1	1058.1	1061.6
10°	1184.1	1143.7	1106.9	1077.0	1056.0	1040.9	1033.9	1031.1	1035.3	1036.7
12.5°	1188.6	1139.5	1094.6	1058.4	1035.6	1019.8	1018.4	1020.5	1026.1	1028.6
15°	1191.4	1131.4	1078.8	1037.4	1017.4	1009.0	1007.6	1015.3	1027.2	1031.1
17.5°	1198.5	1122.3	1058.4	1019.1	1000.9	999.8	1004.0	1012.1	1027.2	1030.0
20°	1198.1	1110.0	1038.4	996.7	987.9	991.4	999.5	1010.4	1025.8	1030.7
22.5°	1204.4	1095.3	1016.7	974.2	970.4	982.3	994.2	1004.7	1023.3	1029.0
25°	1213.2	1083.0	991.1	950.0	951.4	966.8	984.4	997.7	1016.0	1020.9
27.5°	1222.0	1071.4	963.7	920.2	923.0	945.1	972.1	986.8	1004.0	1012.8
30°	1232.9	1058.4	934.9	887.2	891.0	917.7	948.2	968.2	987.5	995.6
32.5°	1245.1	1047.6	905.8	852.1	853.1	887.2	927.5	950.0	965.4	974.9
35°	1260.9	1038.8	877.4	813.5	813.8	851.7	900.9	927.5	941.2	951.8
37.5°	1292.9	1036.7	851.0	777.0	775.9	821.2	871.7	902.3	913.8	922.6
40°	1328.7	1035.3	823.3	740.5	740.8	788.2	841.6	873.5	881.9	890.3
42.5°	1368.0	1031.8	793.8	706.4	708.5	757.3	812.4	843.3	850.0	857.0
45°	1407.6	1024.4	759.4	674.9	676.6	727.1	779.8	810.0	815.2	822.6
47.5°	1445.5	1009.3	727.1	644.7	652.4	695.6	742.9	767.9	771.0	779.4
50°	1480.6	987.9	693.8	620.5	624.7	661.2	702.6	721.5	723.6	727.5
52.5°	1509.4	956.7	655.9	594.5	597.7	625.7	662.2	678.4	676.6	678.7
55°	1519.6	912.8	620.5	568.2	567.8	588.2	621.9	640.1	637.7	637.0
57°	1511.9	868.9	593.1	547.8	546.4	560.5	588.9	604.7	607.1	609.2
57.5°	1504.5	858.0	584.7	542.6	540.8	553.8	581.2	596.2	600.1	599.8
60°	1447.6	788.9	548.5	519.4	512.0	520.8	543.6	555.5	555.5	558.3
62.5°	1344.5	711.7	517.3	492.4	478.7	488.9	507.5	516.6	510.3	512.0
65°	1198.1	633.1	486.1	462.9	445.3	458.0	476.2	487.8	482.2	481.1
67.5°	1030.0	560.5	452.7	428.8	416.2	428.8	452.0	475.5	475.9	475.5
70°	853.5	496.9	416.9	393.8	382.9	398.7	431.3	466.4	468.5	466.8
72.5°	689.6	441.8	379.0	358.0	349.2	369.9	408.5	449.2	452.0	453.1
75°	544.7	391.6	336.2	320.8	316.2	337.6	380.8	423.6	418.0	421.5
77.5°	389.2	332.0	290.9	280.4	278.3	294.4	336.6	365.3	357.3	356.9
80°	277.9	273.0	244.3	238.3	234.4	246.0	276.9	303.2	295.1	288.8
82.5°	214.8	214.1	200.0	181.4	177.6	199.0	225.3	236.2	171.6	173.4
85°	129.5	135.1	119.3	120.4	129.5	142.5	156.9	163.9	82.1	64.9
87.5°	30.2	31.2	37.2	45.3	47.0	55.1	75.5	90.5	36.5	29.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)