

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: P1461477

Luminaire Tested: USSL-50-8540-U-T2U

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461477
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-8540-U-T2U
Description: USSL DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7552.3 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 II - Short
BUG Rating: B2 - U0 - G2

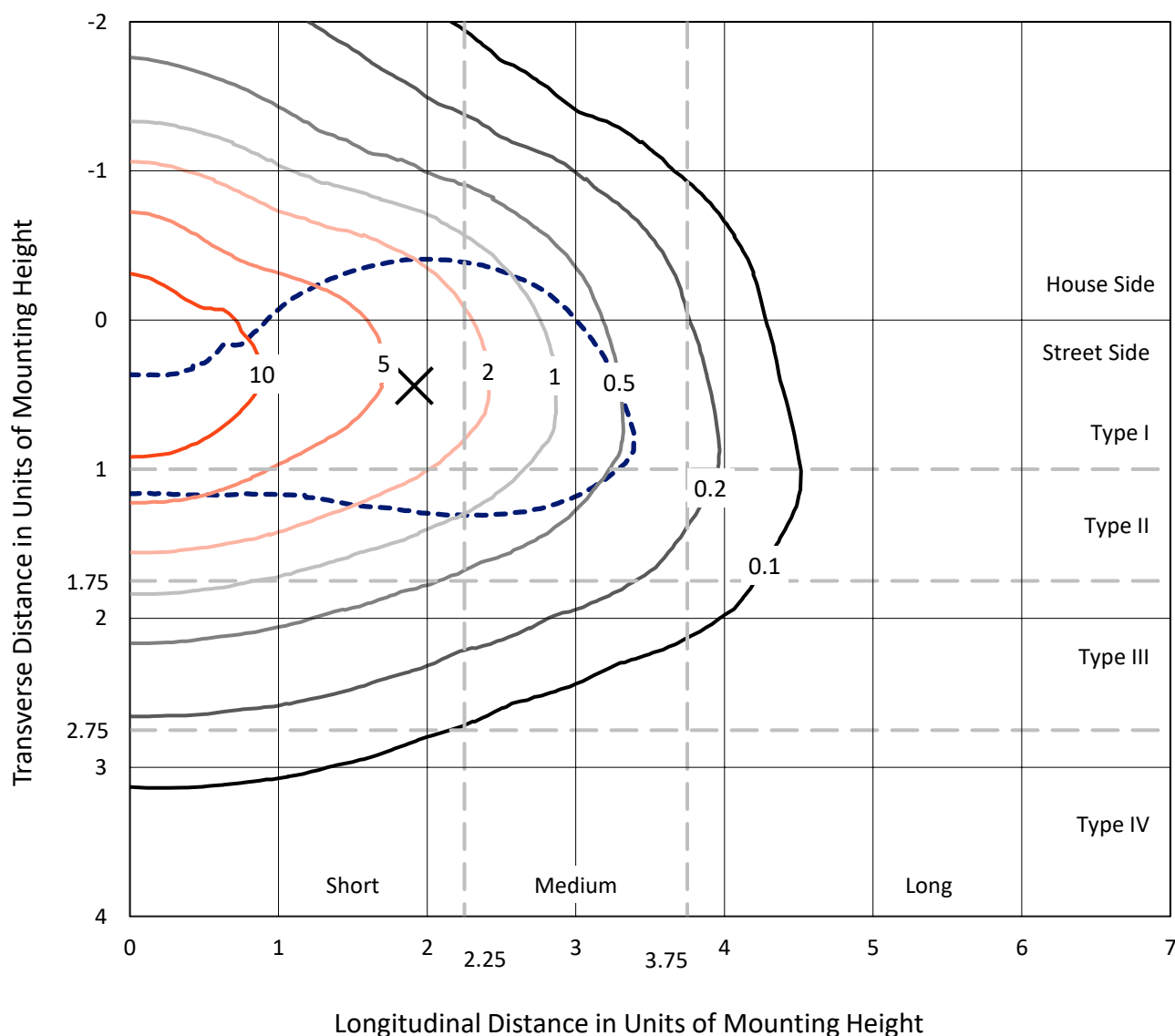
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 3.35%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

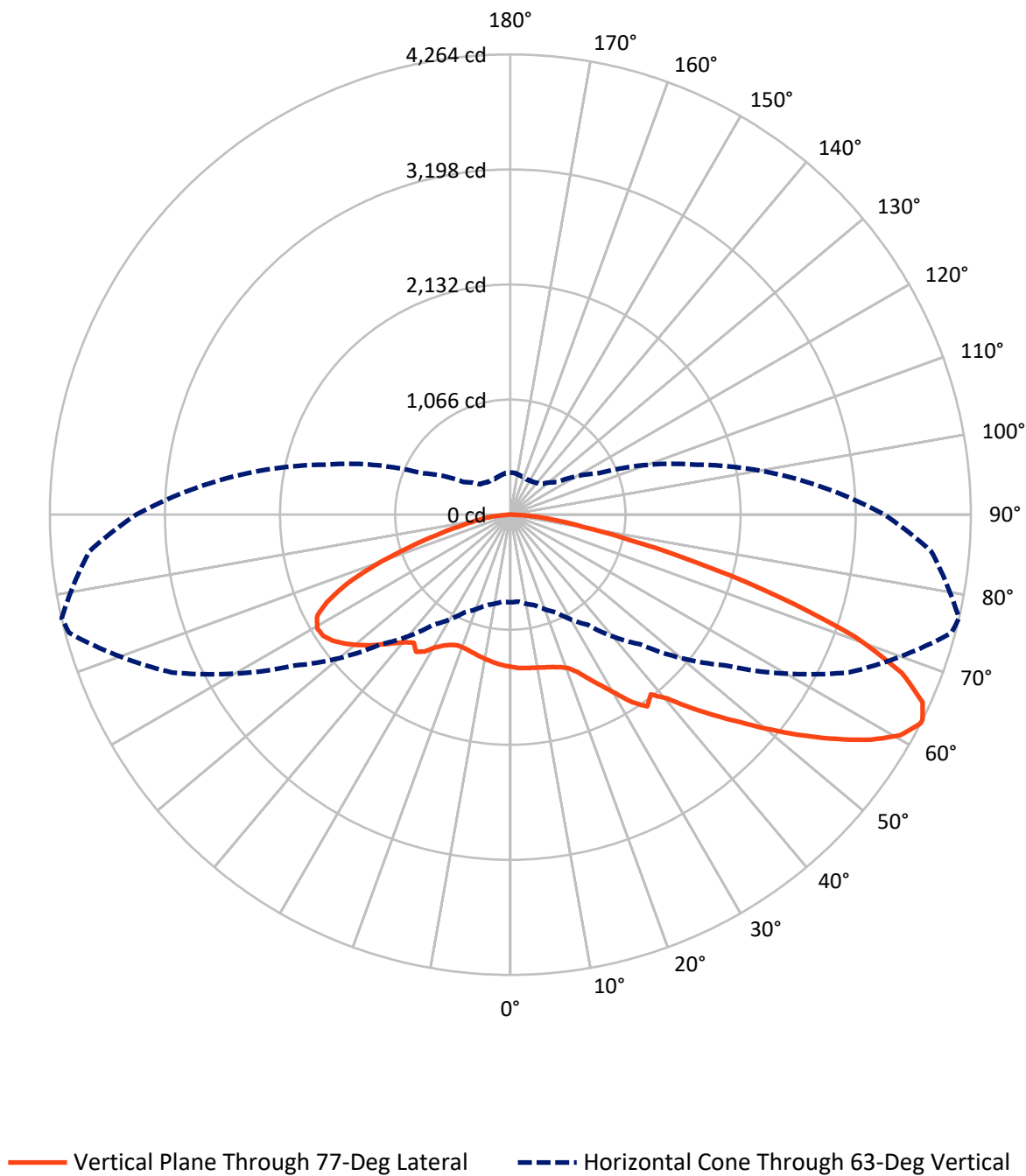


Based on 10 foot mounting height. Maximum calculated value = 17.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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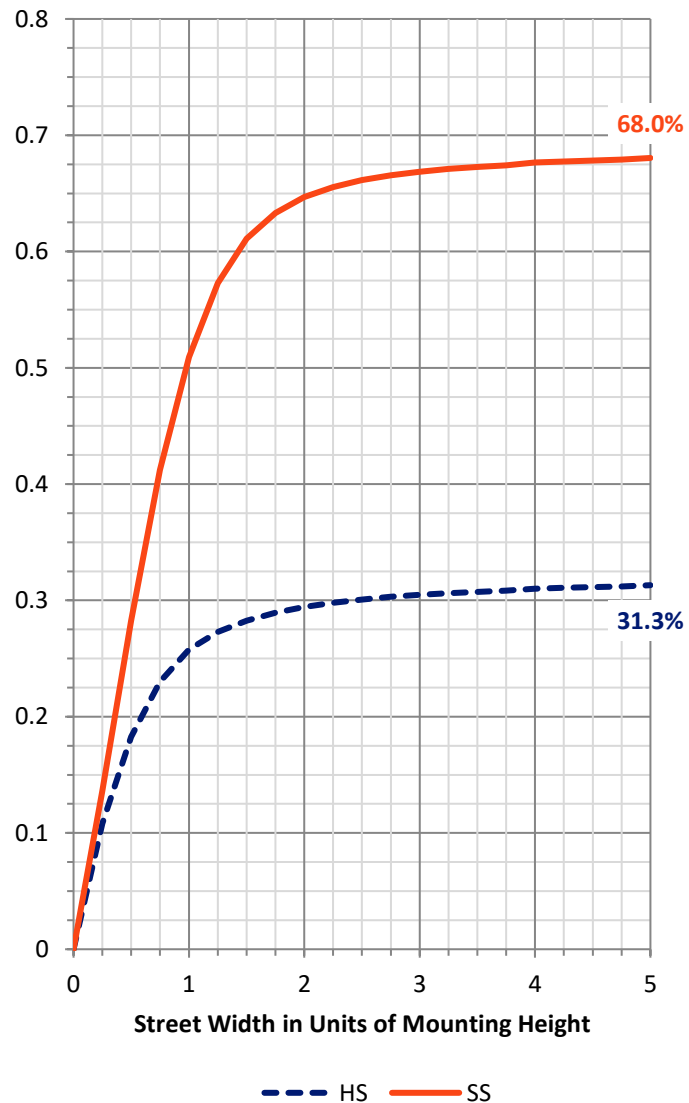
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2395.3	0.0	2395.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	5157.0	0.0	5157.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	7552.3	0.0	7552.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	1.8
10°-20°	413.6	5.5
20°-30°	734.3	9.7
30°-40°	1093.9	14.5
40°-50°	1402.3	18.6
50°-60°	1575.3	20.9
60°-70°	1391.0	18.4
70°-80°	665.0	8.8
80°-90°	142.2	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°	7552.3	100.0
0°-180°	7552.3	100.0

Coefficient of Utilization



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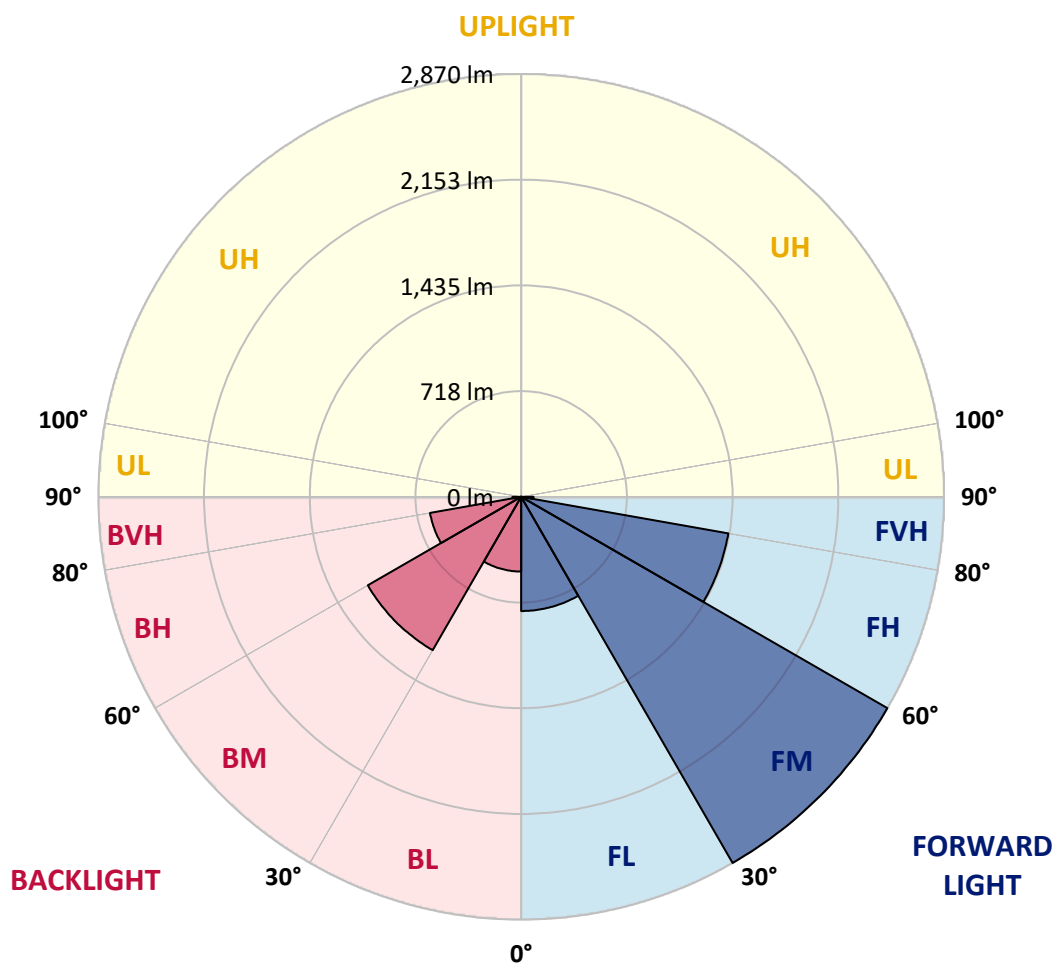
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	775.2	10.3			
FM	(30°-60°)	2870.2	38.0			
FH	(60°-80°)	1428.0	18.9			G1/1800
FVH	(80°-90°)	83.6	1.1			G1/100
BL	(0°-30°)	507.4	6.7	B2/1000		
BM	(30°-60°)	1201.3	15.9	B2/2500		
BH	(60°-80°)	628.0	8.3	B2/1000		G2/1000
BVH	(80°-90°)	58.6	0.8			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°	75°	77°	85°
0°	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0
2.5°	1444.1	1450.4	1444.4	1443.7	1441.3	1434.2	1434.6	1425.5	1418.8	1421.9	1413.2
5°	1498.5	1499.2	1496.0	1490.7	1481.6	1467.6	1454.9	1441.6	1425.8	1427.2	1413.5
7.5°	1570.8	1572.5	1560.6	1550.1	1531.8	1506.2	1484.4	1456.3	1432.5	1433.2	1410.7
10°	1651.2	1652.9	1642.7	1624.5	1595.0	1557.4	1517.1	1479.2	1442.7	1440.9	1408.3
12.5°	1742.1	1744.2	1736.5	1704.9	1666.3	1614.7	1560.9	1504.8	1456.7	1451.8	1412.1
15°	1843.9	1847.7	1829.1	1797.9	1747.7	1678.9	1610.1	1537.1	1472.8	1465.1	1416.0
17.5°	1990.9	1978.3	1965.0	1922.1	1846.7	1761.7	1664.8	1576.0	1493.9	1485.5	1422.7
20°	2140.1	2141.2	2127.5	2100.8	2008.8	1899.3	1751.2	1632.6	1527.3	1515.7	1443.7
22.5°	2128.9	2129.2	2135.6	2147.8	2137.7	2080.1	1944.3	1759.3	1603.1	1580.6	1484.4
25°	2166.1	2172.4	2168.2	2159.1	2114.5	2084.7	2055.2	1917.9	1714.7	1684.2	1560.9
27.5°	2254.5	2265.1	2258.4	2250.3	2199.4	2142.6	2056.2	1988.5	1828.8	1791.9	1646.9
30°	2349.7	2353.5	2344.1	2331.4	2294.6	2245.1	2162.9	2044.3	1945.3	1919.7	1769.1
32.5°	2420.9	2422.0	2417.4	2420.2	2382.7	2349.3	2291.8	2172.8	2080.1	2071.3	1969.9
35°	2473.6	2485.2	2481.7	2493.9	2471.5	2454.6	2423.7	2365.1	2217.7	2182.9	2028.5
37.5°	2525.2	2538.2	2548.7	2555.0	2534.0	2532.2	2526.6	2431.8	2160.1	2113.1	1936.9
40°	2541.3	2548.7	2592.6	2617.8	2585.6	2583.8	2572.2	2452.2	2272.4	2240.2	2060.4
42.5°	2524.5	2523.1	2575.4	2594.7	2612.2	2630.1	2652.6	2607.0	2462.0	2442.7	2246.5
45°	2417.8	2401.6	2429.7	2529.7	2590.5	2659.6	2754.7	2775.4	2680.7	2652.6	2451.1
47.5°	2281.2	2270.7	2305.8	2424.1	2531.8	2669.4	2836.5	2958.3	2900.8	2874.4	2687.3
50°	2066.4	2078.7	2151.7	2281.6	2436.4	2654.0	2902.5	3134.9	3151.4	3132.1	2925.3
52.5°	1785.6	1794.4	1950.2	2116.6	2304.7	2555.4	2931.3	3317.1	3412.2	3401.3	3168.6
55°	1484.8	1511.1	1623.1	1880.0	2106.1	2432.2	2911.3	3464.1	3687.7	3669.1	3424.1
57.5°	1228.9	1256.3	1333.5	1566.2	1871.2	2245.8	2836.9	3568.4	3933.8	3935.5	3662.8
60°	998.6	1022.8	1079.7	1267.5	1595.7	2023.6	2688.0	3589.4	4132.5	4149.0	3835.9
62.5°	836.5	846.3	900.0	1034.1	1318.8	1757.9	2479.5	3494.3	4230.4	4262.7	3915.2
63°	812.6	808.0	868.4	996.9	1245.4	1698.9	2436.4	3457.8	4230.7	4264.1	3914.8
65°	689.7	696.4	735.4	844.2	1048.5	1452.8	2188.6	3265.8	4147.6	4195.6	3826.7
67.5°	540.9	547.2	600.6	689.0	834.4	1178.0	1861.8	2926.7	3865.7	3908.9	3527.3
70°	428.9	431.7	465.8	546.2	677.8	917.9	1463.0	2452.9	3350.1	3383.8	2988.2
72.5°	347.9	357.0	379.4	428.2	513.5	697.5	1103.9	1934.4	2645.2	2594.7	2197.0
75°	291.7	294.5	317.0	341.2	385.4	502.3	796.4	1426.2	1803.5	1799.6	1431.8
77.5°	246.4	252.0	257.3	268.9	294.1	357.3	559.5	990.6	1148.5	1128.9	825.6
80°	207.8	209.9	207.8	209.9	219.4	241.8	363.3	648.7	732.2	681.0	502.3
82.5°	145.0	155.5	156.9	163.9	167.4	176.9	242.9	422.6	466.1	419.1	295.9
85°	86.0	84.9	89.2	101.1	112.7	111.6	154.1	211.3	251.3	233.8	142.2
87.5°	30.5	28.8	28.8	35.5	38.3	41.4	50.5	66.0	62.5	62.8	35.5
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°	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0	1410.0
2.5°	1408.6	1402.6	1399.8	1394.9	1387.2	1383.0	1379.1	1373.9	1372.1	1367.5	1366.8
5°	1403.7	1397.7	1386.1	1373.5	1363.0	1354.9	1340.2	1331.4	1323.3	1321.9	1324.0
7.5°	1396.0	1388.6	1370.3	1352.1	1331.4	1317.7	1298.7	1286.5	1279.4	1278.0	1280.8
10°	1392.8	1379.5	1352.8	1326.8	1300.8	1279.4	1258.7	1243.3	1233.1	1231.7	1228.5
12.5°	1389.7	1372.8	1336.3	1303.7	1266.5	1241.5	1219.1	1206.4	1195.9	1194.5	1193.8
15°	1388.3	1366.8	1319.5	1275.6	1234.5	1204.7	1182.2	1172.0	1168.9	1166.8	1167.8
17.5°	1390.4	1362.6	1304.7	1247.1	1200.1	1169.9	1152.4	1145.7	1144.6	1145.4	1147.8
20°	1401.6	1365.8	1292.4	1223.3	1169.9	1139.0	1126.0	1122.5	1122.5	1126.4	1128.9
22.5°	1426.9	1382.6	1286.1	1204.0	1144.6	1115.9	1100.8	1096.6	1101.1	1108.1	1109.9
25°	1493.6	1431.4	1298.7	1193.1	1125.0	1090.6	1074.4	1073.7	1078.7	1085.0	1085.7
27.5°	1569.7	1492.5	1328.2	1191.3	1106.7	1064.6	1047.4	1045.3	1047.8	1054.1	1054.1
30°	1674.3	1573.9	1372.8	1204.0	1094.1	1036.2	1015.8	1009.2	1012.0	1020.0	1017.6
32.5°	1840.0	1703.8	1442.0	1226.1	1082.5	1007.8	980.7	975.1	975.1	981.4	984.2
35°	1920.0	1800.0	1476.7	1217.7	1056.5	974.8	942.5	934.4	944.9	956.9	958.6
37.5°	1838.6	1716.1	1427.9	1180.8	1019.7	935.8	904.9	898.2	907.4	918.9	920.4
40°	1936.2	1794.0	1465.5	1181.9	996.5	899.3	863.1	841.7	843.1	852.3	850.2
42.5°	2100.1	1927.4	1520.9	1186.8	968.4	859.6	805.9	768.7	763.5	764.9	767.0
45°	2287.9	2077.6	1586.6	1187.8	932.6	810.8	735.7	689.7	676.8	669.0	666.9
47.5°	2488.7	2238.4	1658.2	1185.4	886.7	748.0	664.5	618.5	593.6	582.0	583.0
50°	2706.3	2404.8	1722.1	1173.8	837.5	681.3	597.1	552.1	524.1	517.4	514.2
52.5°	2912.3	2568.0	1783.5	1156.9	782.4	613.2	533.5	494.9	471.4	465.1	463.7
55°	3130.3	2730.2	1835.1	1127.8	720.3	549.0	477.7	451.8	435.3	431.0	431.7
57.5°	3317.1	2873.0	1862.8	1085.3	660.6	492.1	437.0	419.8	409.6	411.7	413.1
60°	3456.1	2945.0	1857.2	1024.3	599.9	445.8	403.7	394.5	394.5	411.7	417.0
62.5°	3477.5	2930.6	1800.7	936.5	533.9	406.8	374.9	366.1	374.9	395.9	400.2
63°	3464.8	2906.7	1785.9	908.1	523.7	398.4	368.6	360.1	372.1	388.9	388.9
65°	3340.2	2779.7	1655.0	813.3	470.0	370.7	346.4	342.2	358.7	370.0	371.7
67.5°	3035.2	2519.6	1431.1	673.2	413.8	339.1	317.3	324.7	337.0	345.7	348.6
70°	2551.2	2087.1	1145.0	541.6	360.8	306.1	293.8	298.4	309.6	317.3	320.1
72.5°	1856.5	1572.9	858.9	432.4	314.2	274.1	267.5	267.1	274.5	277.3	281.5
75°	1203.6	1052.7	627.3	348.9	268.2	241.5	234.1	232.0	246.1	251.7	257.3
77.5°	717.5	652.2	447.9	286.8	228.5	198.3	202.5	202.5	216.9	234.5	242.5
80°	433.9	398.7	332.1	238.0	179.7	162.2	166.4	168.8	203.9	237.6	240.8
82.5°	261.5	256.9	246.4	184.3	139.4	123.9	132.3	148.5	192.0	147.1	169.5
85°	128.8	138.6	158.3	102.8	86.7	84.6	88.8	131.3	127.1	58.6	55.1
87.5°	33.0	39.3	37.2	27.4	23.5	21.8	29.5	49.1	40.4	14.0	8.4
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)