

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: P1461945

Luminaire Tested: USSL-50-8540-U-T2RE-HSS

Issue Date: 06/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1461945  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 6/11/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: USSL-50-8540-U-T2RE-HSS  
Description: USSL DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE II ROADWAY  
ILLUMINANCE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD  
Light Source: (40) 4000k CCT, 85 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5347.1 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

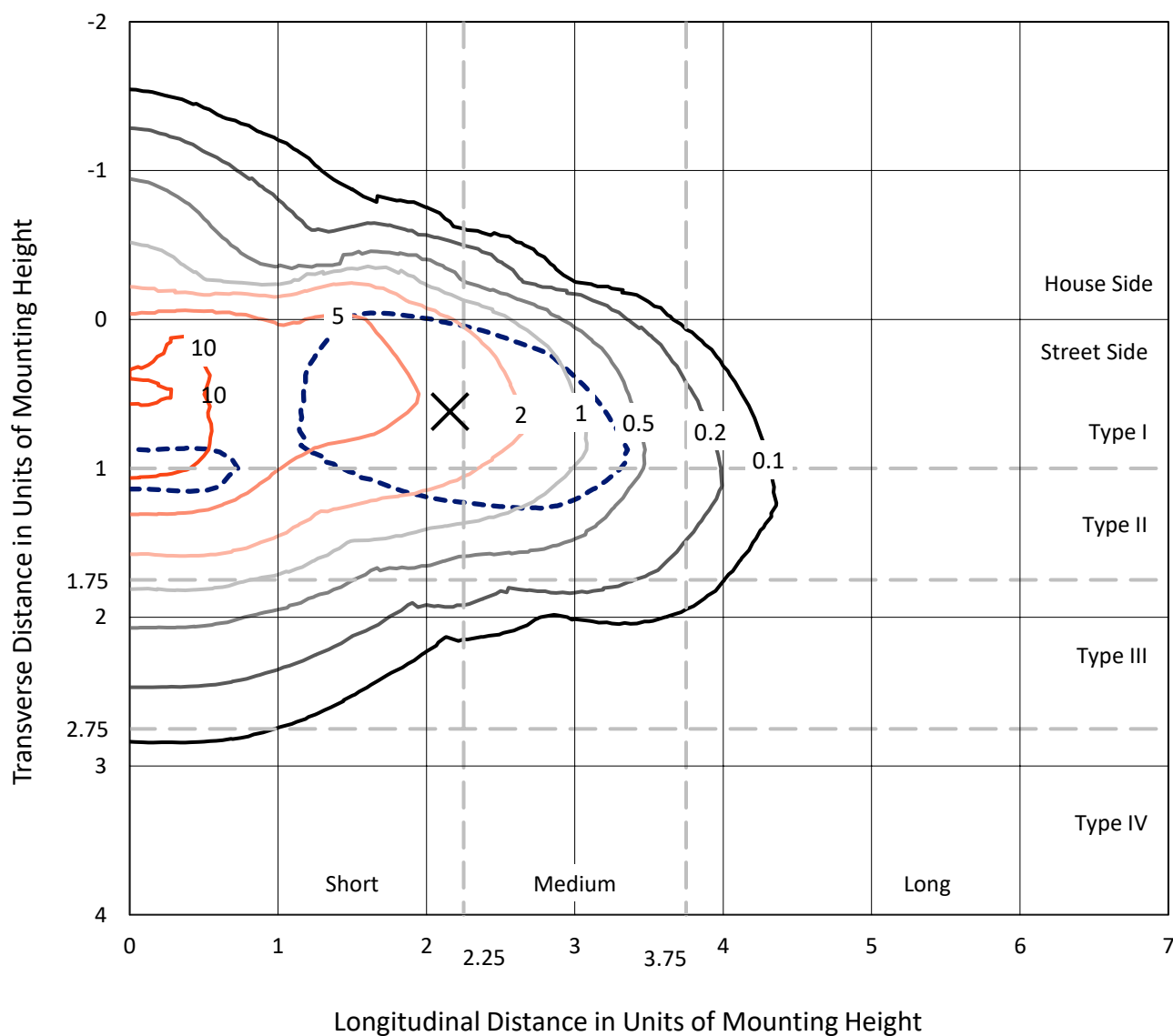
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



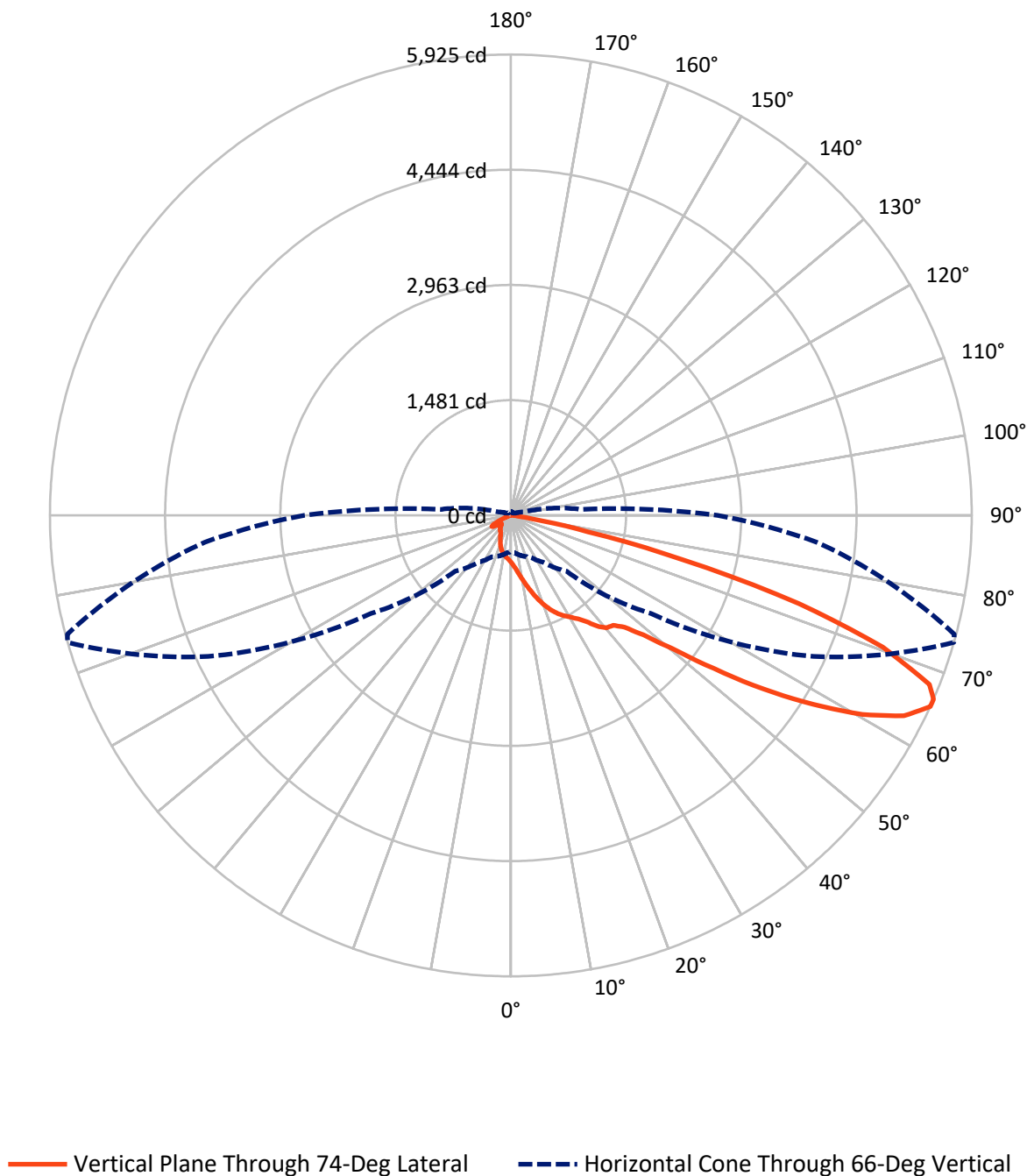
Based on 10 foot mounting height. Maximum calculated value = 12.6 fc

Type II - Short - N/A

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## Luminous Intensity Polar Plot



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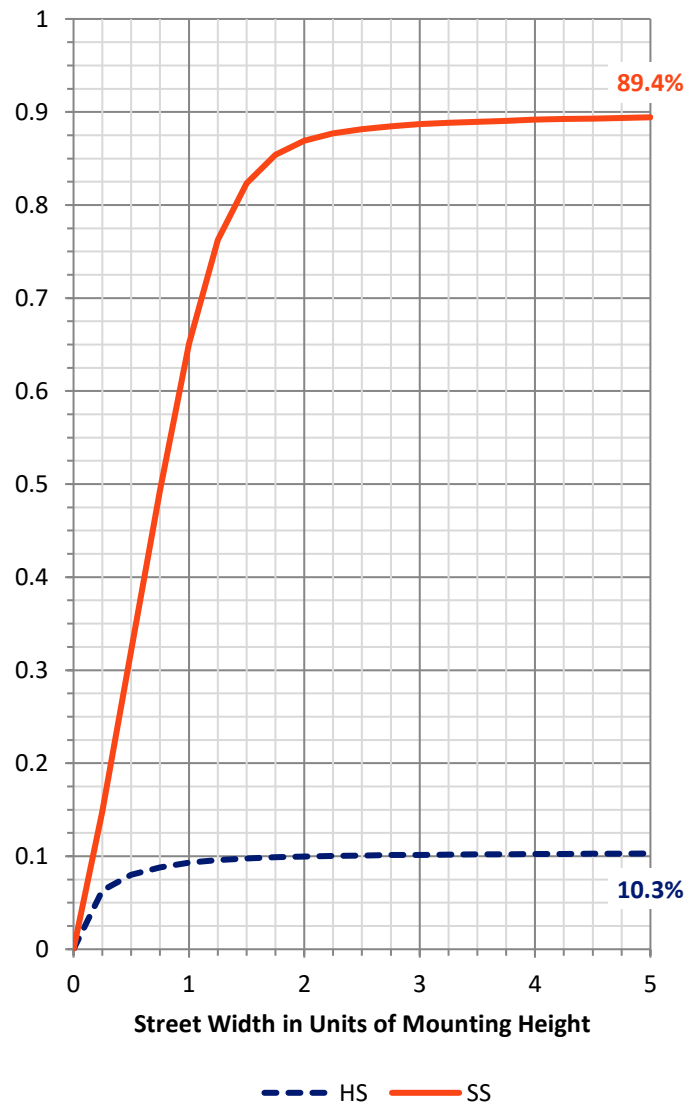
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 555.3    | 0.0    | 555.3  |
|                    | % Fixture | 10.4     | 0.0    | 10.4   |
| <b>Street Side</b> | Lumens    | 4791.8   | 0.0    | 4791.8 |
|                    | % Fixture | 89.6     | 0.0    | 89.6   |
| <b>Total</b>       | Lumens    | 5347.1   | 0.0    | 5347.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.4   | 1.1       |
| 10°-20°   | 193.2  | 3.6       |
| 20°-30°   | 368.2  | 6.9       |
| 30°-40°   | 647.5  | 12.1      |
| 40°-50°   | 1052.5 | 19.7      |
| 50°-60°   | 1358.7 | 25.4      |
| 60°-70°   | 1207.4 | 22.6      |
| 70°-80°   | 424.8  | 7.9       |
| 80°-90°   | 35.6   | 0.7       |
| 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°    | 5347.1 | 100.0     |
| 0°-180°   | 5347.1 | 100.0     |

**Coefficient of Utilization**



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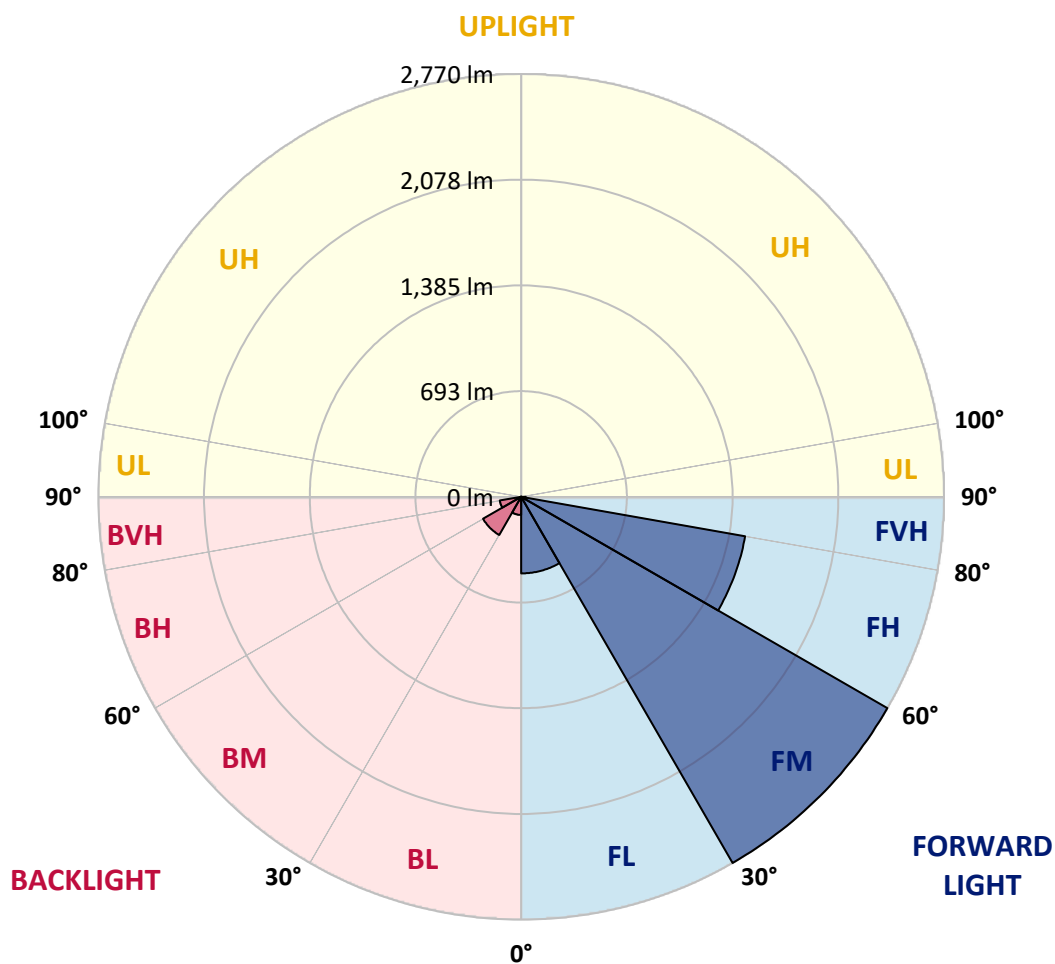
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 501.9  | 9.4       |                         |      |         |
| FM   | (30°-60°)   | 2770.4 | 51.8      |                         |      |         |
| FH   | (60°-80°)   | 1489.8 | 27.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 29.7   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 118.8  | 2.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 288.2  | 5.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 142.4  | 2.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.8    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 603.5  | 603.5  | 603.5  | 603.5  | 603.5  | 603.5  | 603.5  | 603.5  | 603.5  | 603.5  | 603.5  |
| 2.5°  | 743.1  | 744.5  | 735.4  | 728.4  | 716.1  | 702.4  | 685.6  | 663.5  | 641.0  | 641.4  | 620.0  |
| 5°    | 882.4  | 883.5  | 876.8  | 863.1  | 847.7  | 820.0  | 784.2  | 740.7  | 695.0  | 694.3  | 646.3  |
| 7.5°  | 922.1  | 917.1  | 920.3  | 924.9  | 925.6  | 916.1  | 889.1  | 825.9  | 762.1  | 753.6  | 686.6  |
| 10°   | 939.9  | 934.0  | 933.3  | 936.8  | 949.1  | 966.3  | 965.6  | 920.7  | 843.5  | 836.4  | 734.3  |
| 12.5° | 1009.8 | 1008.4 | 1006.3 | 998.5  | 994.0  | 998.9  | 1025.2 | 1011.2 | 932.6  | 925.9  | 796.4  |
| 15°   | 1096.1 | 1088.7 | 1088.4 | 1084.2 | 1074.0 | 1057.8 | 1071.2 | 1097.5 | 1029.8 | 1020.6 | 860.0  |
| 17.5° | 1168.7 | 1158.5 | 1161.3 | 1166.6 | 1157.8 | 1142.7 | 1133.3 | 1166.6 | 1130.8 | 1122.0 | 930.5  |
| 20°   | 1223.8 | 1218.2 | 1229.1 | 1242.7 | 1243.8 | 1230.5 | 1212.6 | 1231.5 | 1229.8 | 1219.6 | 1008.7 |
| 22.5° | 1265.9 | 1258.9 | 1275.0 | 1303.1 | 1326.2 | 1321.3 | 1297.1 | 1289.4 | 1318.9 | 1315.7 | 1083.4 |
| 25°   | 1291.2 | 1284.1 | 1308.7 | 1352.2 | 1401.3 | 1416.4 | 1390.8 | 1359.2 | 1396.1 | 1399.2 | 1151.5 |
| 27.5° | 1344.8 | 1339.9 | 1360.3 | 1403.4 | 1460.6 | 1504.1 | 1486.2 | 1429.0 | 1462.4 | 1467.3 | 1217.8 |
| 30°   | 1502.7 | 1478.9 | 1494.3 | 1508.0 | 1538.2 | 1586.9 | 1579.2 | 1498.2 | 1517.1 | 1530.1 | 1282.4 |
| 32.5° | 1761.7 | 1733.6 | 1715.7 | 1693.9 | 1671.8 | 1686.6 | 1685.2 | 1582.4 | 1585.2 | 1597.1 | 1350.5 |
| 35°   | 2106.6 | 2090.8 | 2018.8 | 1931.1 | 1861.3 | 1823.8 | 1818.1 | 1701.0 | 1676.4 | 1692.2 | 1425.9 |
| 37.5° | 2470.7 | 2453.6 | 2369.0 | 2223.7 | 2090.1 | 1979.2 | 1961.3 | 1866.2 | 1807.6 | 1819.2 | 1504.5 |
| 40°   | 2821.2 | 2776.7 | 2703.4 | 2540.6 | 2320.6 | 2123.7 | 2044.1 | 1930.8 | 1898.1 | 1912.2 | 1561.7 |
| 42.5° | 3084.0 | 3059.8 | 2986.5 | 2830.7 | 2565.5 | 2265.8 | 2126.9 | 1963.4 | 1930.1 | 1957.1 | 1588.3 |
| 45°   | 3223.0 | 3196.7 | 3166.8 | 3081.2 | 2770.0 | 2427.6 | 2253.9 | 2086.2 | 2048.7 | 2076.0 | 1669.4 |
| 47.5° | 3120.5 | 3113.5 | 3206.8 | 3230.0 | 2940.5 | 2567.6 | 2399.9 | 2282.3 | 2294.3 | 2304.4 | 1854.6 |
| 50°   | 2732.8 | 2770.4 | 2968.6 | 3152.8 | 3020.5 | 2705.5 | 2581.3 | 2570.0 | 2682.3 | 2712.8 | 2239.9 |
| 52.5° | 2228.7 | 2232.5 | 2496.4 | 2858.1 | 2878.1 | 2753.2 | 2766.2 | 2944.8 | 3271.4 | 3270.3 | 2731.4 |
| 55°   | 1670.1 | 1729.0 | 2015.3 | 2380.9 | 2491.4 | 2631.1 | 2944.0 | 3427.5 | 3938.4 | 3931.0 | 3226.5 |
| 57.5° | 1278.5 | 1285.2 | 1584.1 | 1933.6 | 2062.7 | 2337.1 | 2999.8 | 3956.3 | 4584.3 | 4571.7 | 3704.7 |
| 60°   | 983.5  | 986.6  | 1204.1 | 1490.8 | 1742.0 | 1936.0 | 2910.7 | 4396.6 | 5193.0 | 5183.9 | 3999.4 |
| 62.5° | 734.0  | 744.5  | 871.5  | 1023.1 | 1366.2 | 1602.7 | 2682.7 | 4591.0 | 5672.7 | 5650.6 | 4098.0 |
| 65°   | 543.8  | 544.5  | 611.2  | 691.9  | 906.3  | 1188.7 | 2353.2 | 4474.1 | 5924.9 | 5898.6 | 4022.2 |
| 66°   | 470.5  | 479.3  | 536.8  | 589.1  | 737.2  | 1012.6 | 2198.5 | 4292.4 | 5925.3 | 5901.4 | 3947.2 |
| 67.5° | 395.8  | 399.3  | 442.1  | 478.9  | 551.5  | 717.9  | 1892.5 | 4005.4 | 5802.5 | 5748.5 | 3760.1 |
| 70°   | 289.5  | 297.5  | 325.2  | 339.6  | 349.1  | 416.1  | 1236.4 | 3381.2 | 5074.5 | 5040.4 | 3216.3 |
| 72.5° | 210.9  | 213.7  | 239.3  | 248.8  | 250.5  | 270.5  | 628.4  | 2681.6 | 3875.9 | 3859.8 | 2210.8 |
| 75°   | 162.8  | 165.6  | 177.2  | 176.8  | 179.3  | 188.1  | 288.4  | 1644.8 | 2290.8 | 2303.7 | 1061.3 |
| 77.5° | 131.2  | 135.4  | 138.9  | 129.1  | 129.8  | 131.9  | 171.9  | 702.8  | 1011.9 | 957.5  | 288.4  |
| 80°   | 98.2   | 98.9   | 104.9  | 95.4   | 90.9   | 89.1   | 108.8  | 243.1  | 285.6  | 271.2  | 105.3  |
| 82.5° | 76.5   | 73.3   | 75.1   | 69.5   | 63.2   | 60.3   | 73.3   | 102.5  | 113.7  | 112.6  | 73.0   |
| 85°   | 51.2   | 50.2   | 46.3   | 43.9   | 39.3   | 36.5   | 48.1   | 57.9   | 70.2   | 72.6   | 54.4   |
| 87.5° | 23.2   | 23.2   | 23.9   | 21.8   | 20.0   | 18.2   | 23.9   | 31.2   | 36.1   | 36.1   | 20.7   |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 603.5  | 603.5  | 603.5 | 603.5 | 603.5 | 603.5 | 603.5 | 603.5 | 603.5 | 603.5 | 603.5 |
| 2.5°  | 609.8  | 597.9  | 577.2 | 556.5 | 538.2 | 520.3 | 500.7 | 490.5 | 482.1 | 480.0 | 474.7 |
| 5°    | 625.6  | 602.8  | 557.2 | 511.6 | 466.6 | 433.7 | 400.3 | 375.4 | 357.5 | 352.3 | 348.4 |
| 7.5°  | 650.5  | 615.4  | 541.4 | 464.5 | 400.7 | 347.0 | 304.5 | 280.0 | 266.7 | 258.6 | 256.5 |
| 10°   | 685.6  | 633.6  | 523.1 | 416.8 | 330.9 | 271.6 | 241.7 | 227.7 | 218.6 | 216.5 | 216.8 |
| 12.5° | 728.4  | 657.2  | 505.2 | 363.8 | 272.3 | 227.4 | 210.2 | 204.6 | 203.5 | 202.4 | 202.4 |
| 15°   | 776.1  | 678.9  | 481.0 | 314.7 | 226.7 | 199.3 | 194.4 | 193.0 | 191.9 | 191.9 | 192.3 |
| 17.5° | 822.1  | 697.5  | 451.9 | 269.5 | 197.5 | 186.0 | 182.1 | 181.0 | 181.4 | 181.0 | 180.7 |
| 20°   | 870.8  | 712.2  | 415.4 | 229.8 | 182.4 | 173.7 | 169.1 | 168.8 | 169.1 | 169.5 | 169.1 |
| 22.5° | 913.3  | 719.6  | 377.9 | 199.6 | 170.5 | 161.7 | 157.5 | 157.2 | 156.8 | 157.2 | 157.2 |
| 25°   | 952.9  | 721.0  | 340.0 | 181.0 | 158.9 | 150.9 | 146.7 | 146.3 | 146.7 | 147.7 | 147.7 |
| 27.5° | 989.4  | 722.1  | 304.9 | 168.8 | 148.8 | 140.3 | 137.2 | 137.5 | 139.6 | 141.0 | 141.0 |
| 30°   | 1025.9 | 727.7  | 277.2 | 157.2 | 138.9 | 131.6 | 128.8 | 130.9 | 134.4 | 137.5 | 137.9 |
| 32.5° | 1066.6 | 738.2  | 257.5 | 148.4 | 130.2 | 124.6 | 123.2 | 127.0 | 133.0 | 137.5 | 138.2 |
| 35°   | 1114.7 | 750.8  | 247.4 | 141.4 | 123.9 | 118.2 | 119.6 | 125.6 | 133.0 | 137.5 | 138.6 |
| 37.5° | 1159.6 | 765.2  | 241.0 | 135.4 | 117.9 | 113.0 | 116.1 | 124.2 | 131.9 | 136.8 | 137.5 |
| 40°   | 1189.4 | 765.9  | 227.0 | 128.4 | 112.3 | 107.7 | 112.6 | 120.7 | 128.4 | 135.1 | 135.8 |
| 42.5° | 1205.5 | 758.6  | 203.1 | 121.7 | 107.4 | 102.8 | 107.7 | 113.0 | 121.7 | 131.2 | 133.0 |
| 45°   | 1288.7 | 788.4  | 184.9 | 114.7 | 103.5 | 98.6  | 100.0 | 102.8 | 112.6 | 123.2 | 124.9 |
| 47.5° | 1496.8 | 898.9  | 171.9 | 108.4 | 98.2  | 93.7  | 90.9  | 93.3  | 101.7 | 111.6 | 112.6 |
| 50°   | 1873.2 | 1125.6 | 167.0 | 103.2 | 93.3  | 86.7  | 82.5  | 84.2  | 88.8  | 96.1  | 98.2  |
| 52.5° | 2417.1 | 1496.8 | 181.4 | 98.2  | 87.7  | 80.3  | 74.4  | 72.3  | 76.8  | 82.5  | 82.8  |
| 55°   | 2943.7 | 1815.3 | 221.0 | 93.7  | 81.0  | 74.4  | 67.4  | 62.5  | 65.3  | 68.4  | 69.8  |
| 57.5° | 3368.9 | 1963.4 | 273.3 | 92.6  | 73.3  | 68.4  | 59.6  | 53.3  | 55.8  | 58.6  | 59.3  |
| 60°   | 3381.9 | 1800.3 | 304.5 | 92.6  | 69.5  | 62.1  | 52.6  | 47.4  | 50.9  | 53.7  | 54.0  |
| 62.5° | 3118.4 | 1417.1 | 275.8 | 86.3  | 62.1  | 53.7  | 48.4  | 43.9  | 48.4  | 52.3  | 53.0  |
| 65°   | 2773.5 | 1024.9 | 200.3 | 76.5  | 54.0  | 45.6  | 44.6  | 42.1  | 47.7  | 52.3  | 53.3  |
| 66°   | 2655.3 | 893.6  | 166.0 | 71.9  | 50.9  | 43.2  | 42.8  | 42.1  | 47.4  | 51.9  | 53.0  |
| 67.5° | 2382.3 | 687.7  | 122.8 | 63.9  | 46.3  | 40.0  | 40.3  | 41.1  | 46.0  | 49.8  | 51.2  |
| 70°   | 1725.9 | 405.9  | 78.9  | 49.1  | 41.1  | 36.5  | 36.1  | 37.9  | 41.4  | 43.9  | 44.2  |
| 72.5° | 1061.0 | 202.4  | 57.9  | 36.5  | 36.5  | 35.1  | 31.9  | 33.3  | 36.1  | 37.5  | 37.5  |
| 75°   | 475.8  | 101.7  | 42.5  | 28.4  | 31.6  | 32.6  | 27.4  | 29.1  | 30.5  | 31.9  | 31.9  |
| 77.5° | 128.8  | 62.1   | 33.0  | 23.5  | 28.1  | 28.8  | 23.2  | 24.9  | 26.0  | 28.1  | 27.7  |
| 80°   | 71.2   | 48.8   | 23.9  | 19.3  | 21.8  | 24.9  | 20.0  | 21.8  | 20.3  | 18.9  | 22.1  |
| 82.5° | 58.9   | 33.3   | 16.1  | 15.1  | 16.1  | 20.0  | 16.1  | 15.1  | 12.6  | 7.4   | 8.4   |
| 85°   | 40.7   | 18.2   | 8.4   | 8.1   | 8.8   | 11.9  | 10.2  | 7.7   | 5.3   | 1.4   | 2.5   |
| 87.5° | 11.9   | 4.9    | 3.5   | 3.2   | 3.5   | 4.2   | 3.2   | 3.2   | 1.8   | 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)