

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: P560951

Luminaire Tested: **SDL-PA1-70-760-U-SL3**

Issue Date: 7/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P560951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: SDL-PA1-70-760-U-SL3  
Description: Springdale  
(1) 70 CRI, 5700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8454.1 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

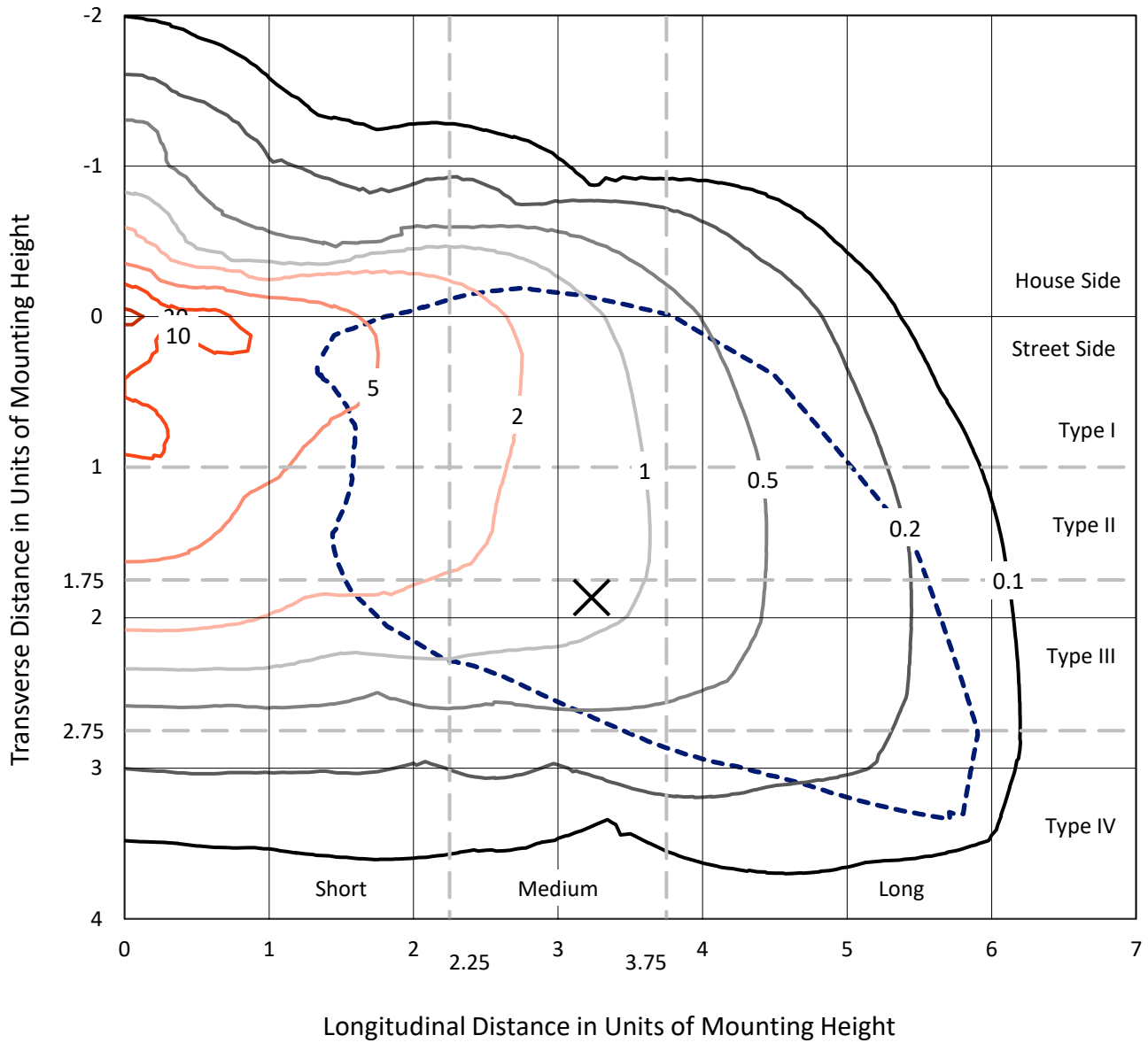
Input Watts (W): 72.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

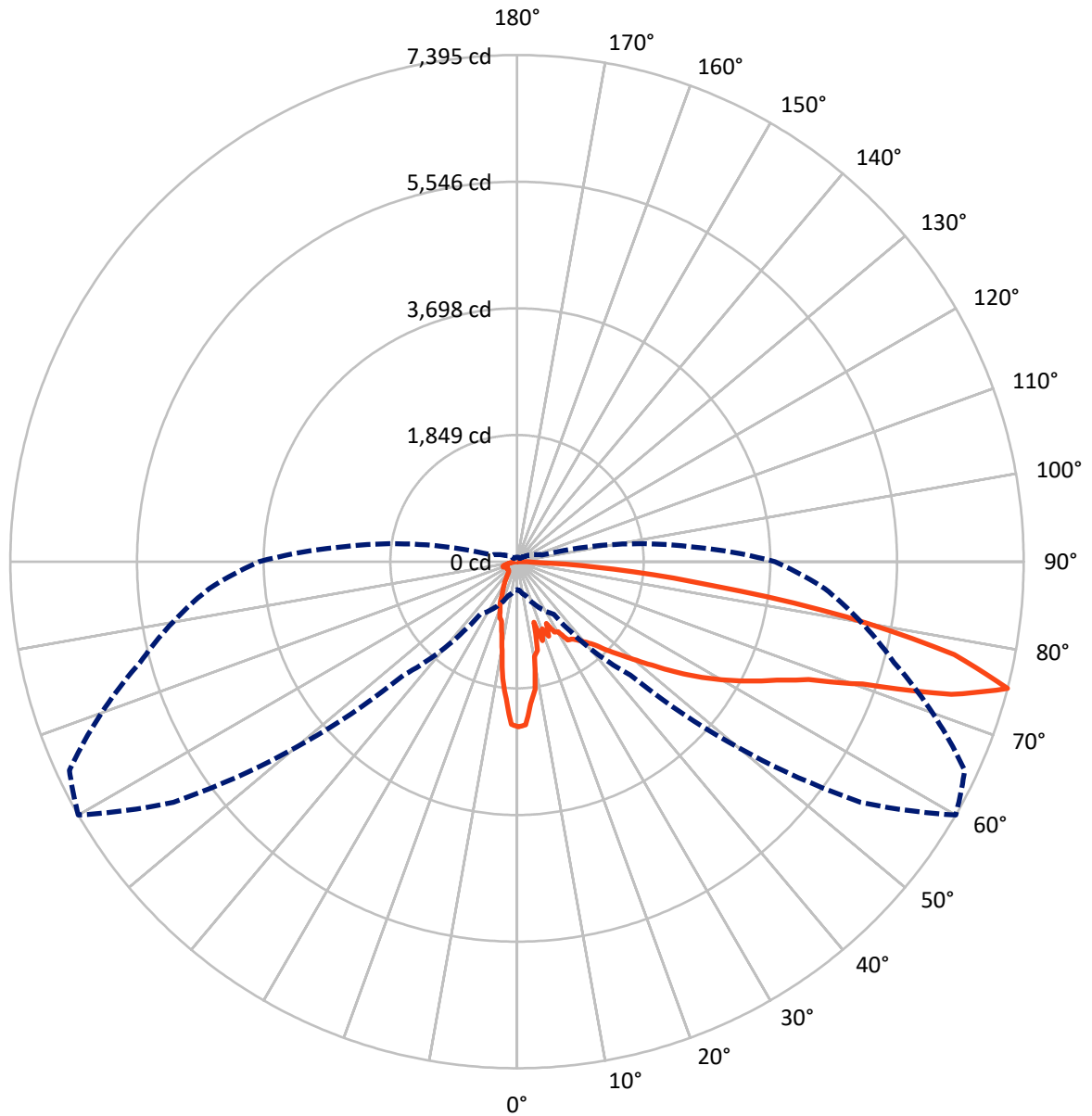
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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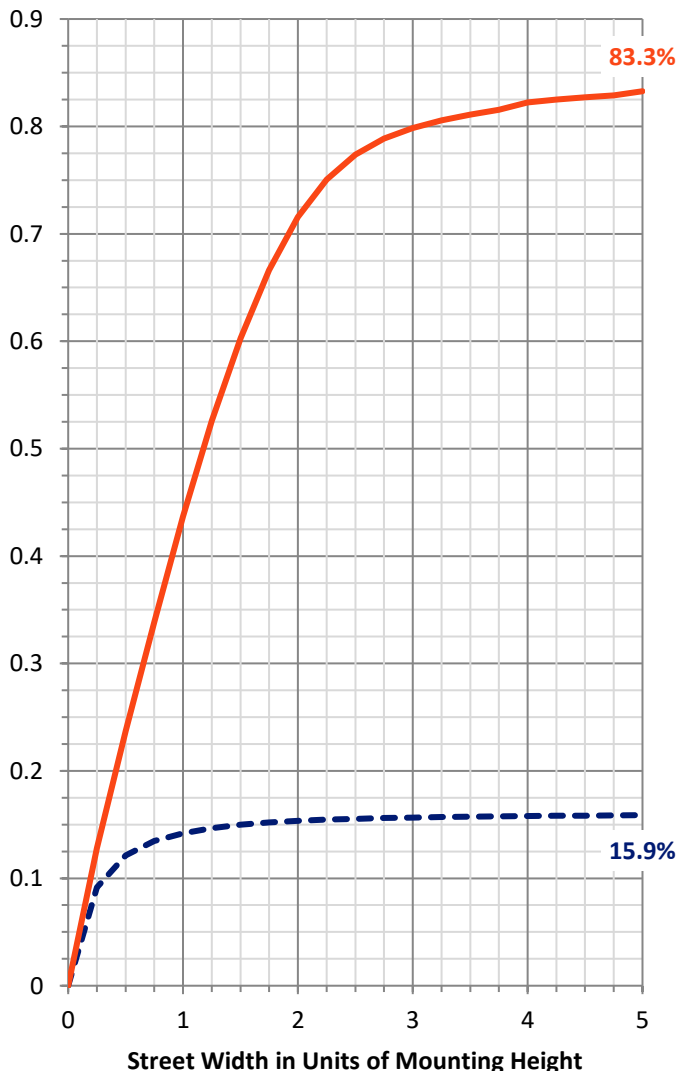
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1358.9   | 0.0    | 1358.9 |
|                    | % Fixture | 16.1     | 0.0    | 16.1   |
| <b>Street Side</b> | Lumens    | 7095.2   | 0.0    | 7095.2 |
|                    | % Fixture | 83.9     | 0.0    | 83.9   |
| <b>Total</b>       | Lumens    | 8454.1   | 0.0    | 8454.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 175.9  | 2.1       |
| 10°-20°   | 317.4  | 3.8       |
| 20°-30°   | 415.8  | 4.9       |
| 30°-40°   | 686.1  | 8.1       |
| 40°-50°   | 1071.4 | 12.7      |
| 50°-60°   | 1631.1 | 19.3      |
| 60°-70°   | 2021.0 | 23.9      |
| 70°-80°   | 1785.4 | 21.1      |
| 80°-90°   | 350.0  | 4.1       |
| 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°    | 8454.1 | 100.0     |
| 0°-180°   | 8454.1 | 100.0     |

**Coefficient of Utilization**



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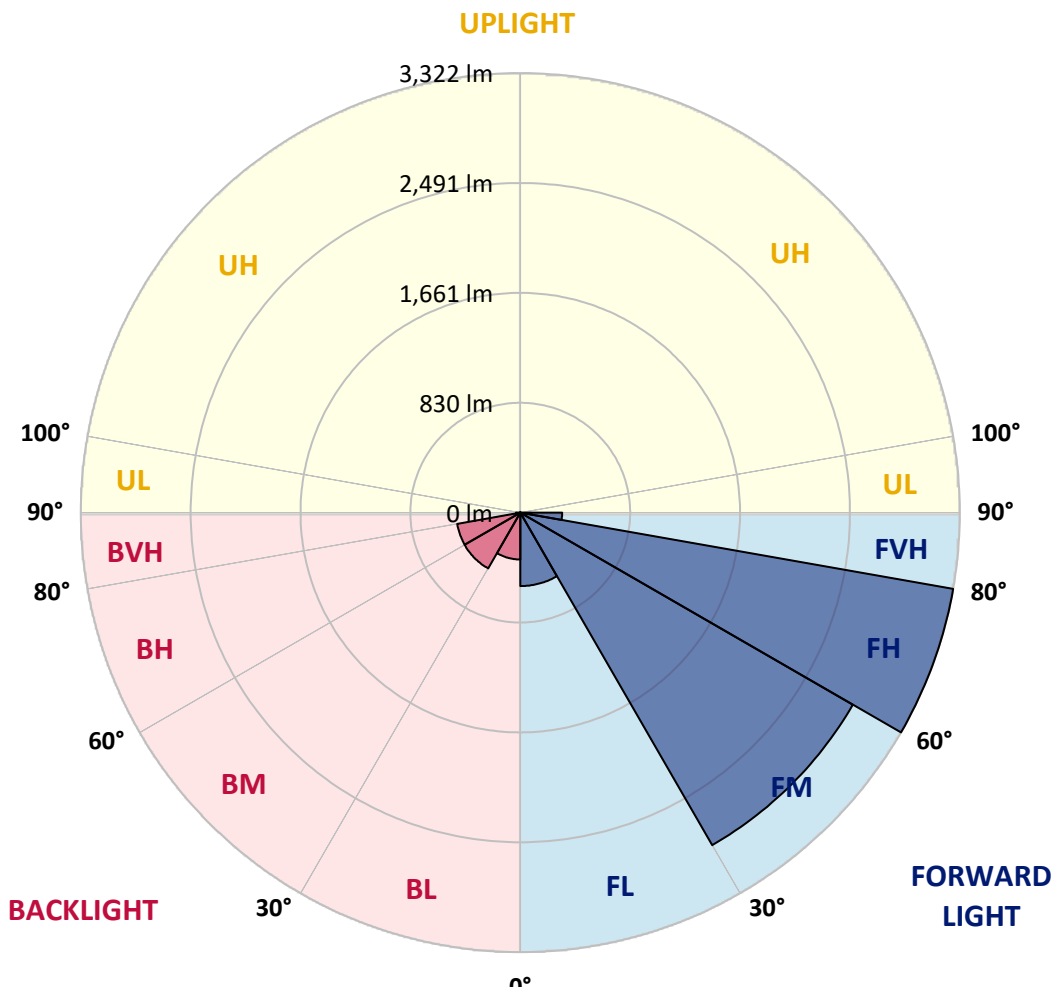
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 555.0  | 6.6       |                         |      |         |
| FM (30°-60°)   | 2901.7 | 34.3      |                         |      |         |
| FH (60°-80°)   | 3321.8 | 39.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 316.6  | 3.7       |                         |      | G3/500  |
| BL (0°-30°)    | 354.0  | 4.2       | B1/500                  |      |         |
| BM (30°-60°)   | 486.9  | 5.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 484.6  | 5.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 33.4   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 |
| 2.5°  | 2002.8 | 2228.8 | 2176.2 | 2123.5 | 2204.0 | 2281.4 | 2306.2 | 2327.9 | 2340.2 | 2352.6 | 2365.0 |
| 5°    | 1860.4 | 1863.5 | 1866.6 | 1869.7 | 1879.0 | 1885.2 | 1897.6 | 1910.0 | 1922.3 | 1931.6 | 1944.0 |
| 7.5°  | 1436.3 | 1485.9 | 1566.4 | 1646.8 | 1696.4 | 1742.8 | 1770.7 | 1795.4 | 1814.0 | 1832.6 | 1851.1 |
| 10°   | 1597.3 | 1606.6 | 1609.7 | 1609.7 | 1625.2 | 1640.6 | 1523.0 | 1402.3 | 1461.1 | 1519.9 | 1454.9 |
| 12.5° | 1253.7 | 1287.8 | 1389.9 | 1489.0 | 1519.9 | 1547.8 | 1492.1 | 1436.3 | 1349.7 | 1259.9 | 1253.7 |
| 15°   | 1439.4 | 1448.7 | 1451.8 | 1451.8 | 1355.9 | 1259.9 | 1194.9 | 1126.8 | 1179.4 | 1228.9 | 1114.4 |
| 17.5° | 1114.4 | 1123.7 | 1204.2 | 1284.7 | 1300.1 | 1315.6 | 1247.5 | 1179.4 | 1027.7 | 872.9  | 1018.4 |
| 20°   | 1324.9 | 1331.1 | 1331.1 | 1331.1 | 1170.1 | 1009.2 | 1021.5 | 1030.8 | 1080.3 | 1129.9 | 1089.6 |
| 22.5° | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1117.5 | 1163.9 | 1064.9 | 965.8  | 1021.5 | 1077.3 | 1027.7 |
| 25°   | 1343.5 | 1352.8 | 1331.1 | 1306.3 | 1157.7 | 1009.2 | 1055.6 | 1102.0 | 1018.4 | 934.9  | 1009.2 |
| 27.5° | 1225.8 | 1216.6 | 1173.2 | 1126.8 | 1148.5 | 1170.1 | 1068.0 | 965.8  | 1030.8 | 1095.8 | 1064.9 |
| 30°   | 1628.3 | 1600.4 | 1554.0 | 1507.5 | 1331.1 | 1154.6 | 1126.8 | 1098.9 | 1043.2 | 984.4  | 1049.4 |
| 32.5° | 2163.8 | 2092.6 | 1875.9 | 1659.2 | 1550.9 | 1442.5 | 1303.2 | 1163.9 | 1151.5 | 1136.1 | 1154.6 |
| 35°   | 2306.2 | 2259.8 | 2170.0 | 2077.1 | 1891.4 | 1702.6 | 1526.1 | 1346.6 | 1287.8 | 1225.8 | 1238.2 |
| 37.5° | 2334.0 | 2318.6 | 2300.0 | 2278.3 | 2089.5 | 1900.7 | 1708.7 | 1516.8 | 1454.9 | 1389.9 | 1343.5 |
| 40°   | 2355.7 | 2368.1 | 2402.1 | 2433.1 | 2244.3 | 2052.4 | 1879.0 | 1702.6 | 1637.5 | 1569.4 | 1489.0 |
| 42.5° | 2454.8 | 2488.8 | 2532.2 | 2572.4 | 2399.1 | 2225.7 | 2074.0 | 1922.3 | 1838.8 | 1755.2 | 1680.9 |
| 45°   | 2683.8 | 2702.4 | 2748.9 | 2792.2 | 2628.1 | 2461.0 | 2287.6 | 2111.2 | 2040.0 | 1968.8 | 1894.5 |
| 47.5° | 3018.2 | 3049.1 | 3046.0 | 3042.9 | 2860.3 | 2674.6 | 2479.5 | 2281.4 | 2235.0 | 2185.5 | 2114.3 |
| 50°   | 3439.2 | 3417.5 | 3358.7 | 3299.9 | 3101.7 | 2900.5 | 2671.5 | 2439.3 | 2417.6 | 2392.9 | 2334.0 |
| 52.5° | 3649.7 | 3634.2 | 3553.7 | 3470.1 | 3268.9 | 3067.7 | 2820.0 | 2569.3 | 2597.2 | 2625.0 | 2569.3 |
| 55°   | 3662.0 | 3652.8 | 3593.9 | 3535.1 | 3340.1 | 3145.1 | 2925.3 | 2705.5 | 2773.6 | 2841.7 | 2820.0 |
| 57.5° | 3572.3 | 3575.4 | 3556.8 | 3535.1 | 3361.8 | 3188.4 | 3005.8 | 2823.1 | 2940.8 | 3055.3 | 3077.0 |
| 60°   | 3343.2 | 3389.6 | 3420.6 | 3451.5 | 3343.2 | 3234.9 | 3077.0 | 2919.1 | 3098.6 | 3278.2 | 3337.0 |
| 62.5° | 2919.1 | 2959.3 | 3070.8 | 3179.1 | 3200.8 | 3219.4 | 3114.1 | 3005.8 | 3247.2 | 3485.6 | 3581.6 |
| 65°   | 2262.8 | 2318.6 | 2485.7 | 2652.9 | 2826.2 | 2999.6 | 3024.4 | 3049.1 | 3457.7 | 3866.3 | 3946.8 |
| 67.5° | 1411.6 | 1442.5 | 1619.0 | 1792.3 | 2142.1 | 2488.8 | 2686.9 | 2885.1 | 3590.8 | 4293.5 | 4420.5 |
| 70°   | 746.0  | 792.5  | 879.1  | 962.7  | 1263.0 | 1563.3 | 1965.7 | 2368.1 | 3389.6 | 4411.2 | 4931.2 |
| 72.5° | 566.5  | 585.1  | 631.5  | 677.9  | 783.2  | 888.4  | 1142.3 | 1396.1 | 2652.9 | 3906.6 | 5104.6 |
| 75°   | 408.6  | 424.1  | 473.6  | 520.1  | 625.3  | 727.5  | 832.7  | 934.9  | 1637.5 | 2340.2 | 4231.6 |
| 77.5° | 238.4  | 244.5  | 269.3  | 291.0  | 455.0  | 619.1  | 733.6  | 845.1  | 1015.3 | 1182.5 | 3021.3 |
| 80°   | 164.1  | 167.2  | 176.4  | 185.7  | 256.9  | 328.1  | 547.9  | 767.7  | 845.1  | 919.4  | 2002.8 |
| 82.5° | 108.3  | 123.8  | 130.0  | 136.2  | 161.0  | 185.7  | 321.9  | 455.0  | 668.6  | 879.1  | 1368.2 |
| 85°   | 55.7   | 61.9   | 74.3   | 83.6   | 96.0   | 105.2  | 145.5  | 182.6  | 554.1  | 922.5  | 984.4  |
| 87.5° | 6.2    | 9.3    | 12.4   | 12.4   | 15.5   | 18.6   | 27.9   | 37.1   | 167.2  | 297.2  | 253.8  |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 |
| 2.5°  | 2377.4 | 2383.6 | 2380.5 | 2386.7 | 2389.8 | 2392.9 | 2396.0 | 2396.0 | 2392.9 | 2386.7 | 2380.5 |
| 5°    | 1956.4 | 2080.2 | 2290.7 | 2312.4 | 2334.0 | 2340.2 | 2346.4 | 2349.5 | 2343.3 | 2334.0 | 2324.8 |
| 7.5°  | 1866.6 | 1885.2 | 1696.4 | 1848.0 | 1996.6 | 2009.0 | 2018.3 | 2012.1 | 2015.2 | 1931.6 | 1845.0 |
| 10°   | 1389.9 | 1405.4 | 1411.6 | 1458.0 | 1501.3 | 1603.5 | 1705.7 | 1690.2 | 1677.8 | 1529.2 | 1377.5 |
| 12.5° | 1247.5 | 1328.0 | 1346.6 | 1269.2 | 1191.8 | 1297.0 | 1402.3 | 1389.9 | 1368.2 | 1232.0 | 1095.8 |
| 15°   | 999.9  | 916.3  | 1095.8 | 1263.0 | 1427.1 | 1526.1 | 1622.1 | 1594.2 | 1569.4 | 1396.1 | 1219.6 |
| 17.5° | 1160.8 | 1210.4 | 1151.5 | 1176.3 | 1201.1 | 1275.4 | 1346.6 | 1303.2 | 1287.8 | 1167.0 | 1043.2 |
| 20°   | 1049.4 | 1046.3 | 1006.1 | 1151.5 | 1297.0 | 1442.5 | 1584.9 | 1541.6 | 1467.3 | 1232.0 | 993.7  |
| 22.5° | 978.2  | 1179.4 | 1266.1 | 1247.5 | 1225.8 | 1170.1 | 1111.3 | 1074.2 | 1018.4 | 965.8  | 910.1  |
| 25°   | 1080.3 | 996.8  | 1064.9 | 1287.8 | 1507.5 | 1547.8 | 1588.0 | 1495.2 | 1374.4 | 1136.1 | 897.7  |
| 27.5° | 1033.9 | 1163.9 | 1250.6 | 1399.2 | 1544.7 | 1684.0 | 1823.3 | 1699.5 | 1541.6 | 1244.4 | 944.1  |
| 30°   | 1114.4 | 1185.6 | 1427.1 | 1705.7 | 1984.2 | 2033.8 | 2080.2 | 1910.0 | 1699.5 | 1399.2 | 1098.9 |
| 32.5° | 1173.2 | 1362.0 | 1575.6 | 1792.3 | 2005.9 | 2043.1 | 2080.2 | 1888.3 | 1646.8 | 1315.6 | 984.4  |
| 35°   | 1247.5 | 1386.8 | 1581.8 | 1835.7 | 2089.5 | 2098.8 | 2105.0 | 1882.1 | 1609.7 | 1235.1 | 857.5  |
| 37.5° | 1297.0 | 1454.9 | 1665.4 | 1934.7 | 2204.0 | 2185.5 | 2163.8 | 1910.0 | 1597.3 | 1179.4 | 761.5  |
| 40°   | 1408.5 | 1544.7 | 1770.7 | 2046.2 | 2321.7 | 2290.7 | 2259.8 | 1968.8 | 1600.4 | 1123.7 | 643.9  |
| 42.5° | 1603.5 | 1656.1 | 1900.7 | 2194.7 | 2488.8 | 2454.8 | 2417.6 | 2070.9 | 1637.5 | 1092.7 | 544.8  |
| 45°   | 1817.1 | 1841.9 | 2052.4 | 2386.7 | 2721.0 | 2677.7 | 2634.3 | 2228.8 | 1705.7 | 1077.3 | 448.9  |
| 47.5° | 2040.0 | 2033.8 | 2228.8 | 2634.3 | 3036.7 | 2943.9 | 2851.0 | 2414.5 | 1832.6 | 1108.2 | 383.8  |
| 50°   | 2272.1 | 2262.8 | 2451.7 | 2888.2 | 3324.6 | 3225.6 | 3126.5 | 2637.4 | 1978.1 | 1163.9 | 346.7  |
| 52.5° | 2510.5 | 2532.2 | 2671.5 | 3126.5 | 3578.5 | 3488.7 | 3395.8 | 2878.9 | 2120.5 | 1225.8 | 331.2  |
| 55°   | 2795.3 | 2863.4 | 2919.1 | 3374.2 | 3829.2 | 3739.4 | 3646.6 | 3126.5 | 2318.6 | 1321.8 | 325.0  |
| 57.5° | 3095.6 | 3185.3 | 3210.1 | 3624.9 | 4039.7 | 3980.9 | 3919.0 | 3361.8 | 2519.8 | 1433.2 | 343.6  |
| 60°   | 3395.8 | 3513.5 | 3603.2 | 3937.5 | 4268.8 | 4200.7 | 4132.6 | 3600.1 | 2708.6 | 1557.1 | 405.5  |
| 62.5° | 3674.4 | 3838.5 | 3984.0 | 4228.5 | 4470.0 | 4389.5 | 4309.0 | 3807.5 | 2922.2 | 1727.3 | 529.3  |
| 65°   | 4024.2 | 4169.7 | 4327.6 | 4488.6 | 4646.4 | 4569.0 | 4491.6 | 4067.6 | 3207.0 | 1940.9 | 671.7  |
| 67.5° | 4547.4 | 4590.7 | 4671.2 | 4770.2 | 4866.2 | 4819.8 | 4770.2 | 4386.4 | 3454.6 | 2064.7 | 671.7  |
| 70°   | 5448.2 | 5352.2 | 5231.5 | 5228.4 | 5222.2 | 5147.9 | 5070.5 | 4565.9 | 3470.1 | 2015.2 | 560.3  |
| 72.5° | 6299.5 | 6627.6 | 6243.7 | 5965.1 | 5686.5 | 5358.4 | 5027.2 | 4324.5 | 3064.6 | 1755.2 | 445.8  |
| 75°   | 6119.9 | 7395.3 | 7209.5 | 6454.2 | 5698.9 | 5104.6 | 4510.2 | 3767.3 | 2522.9 | 1451.8 | 380.8  |
| 77.5° | 4856.9 | 6525.4 | 6701.9 | 6008.5 | 5312.0 | 4507.1 | 3699.2 | 2912.9 | 1749.0 | 1033.9 | 318.8  |
| 80°   | 3083.2 | 4878.6 | 4909.5 | 4265.7 | 3618.7 | 2755.0 | 1891.4 | 1269.2 | 842.0  | 547.9  | 253.8  |
| 82.5° | 1857.3 | 2888.2 | 2513.6 | 1801.6 | 1089.6 | 755.3  | 417.9  | 402.4  | 309.6  | 229.1  | 148.6  |
| 85°   | 1046.3 | 1414.7 | 1015.3 | 665.5  | 315.7  | 226.0  | 133.1  | 142.4  | 136.2  | 111.4  | 83.6   |
| 87.5° | 207.4  | 244.5  | 167.2  | 96.0   | 24.8   | 24.8   | 21.7   | 21.7   | 15.5   | 15.5   | 12.4   |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 | 2411.4 |
| 2.5°  | 2380.5 | 2380.5 | 2374.3 | 2368.1 | 2365.0 | 2361.9 | 2269.0 | 2176.2 | 2114.3 | 2049.3 | 2033.8 |
| 5°    | 2210.2 | 2095.7 | 2009.0 | 1922.3 | 1903.8 | 1885.2 | 1882.1 | 1879.0 | 1869.7 | 1857.3 | 1854.2 |
| 7.5°  | 1745.9 | 1643.7 | 1714.9 | 1783.0 | 1770.7 | 1755.2 | 1745.9 | 1733.5 | 1711.8 | 1690.2 | 1581.8 |
| 10°   | 1343.5 | 1309.4 | 1309.4 | 1306.3 | 1281.6 | 1256.8 | 1312.5 | 1368.2 | 1430.1 | 1492.1 | 1485.9 |
| 12.5° | 1145.4 | 1191.8 | 1071.1 | 947.2  | 1015.3 | 1080.3 | 1142.3 | 1201.1 | 1232.0 | 1263.0 | 1167.0 |
| 15°   | 1080.3 | 938.0  | 897.7  | 857.5  | 888.4  | 919.4  | 829.6  | 736.7  | 807.9  | 879.1  | 894.6  |
| 17.5° | 968.9  | 894.6  | 854.4  | 811.0  | 693.4  | 572.7  | 612.9  | 653.2  | 650.1  | 647.0  | 631.5  |
| 20°   | 903.9  | 811.0  | 739.8  | 665.5  | 609.8  | 554.1  | 495.3  | 433.4  | 405.5  | 374.6  | 448.9  |
| 22.5° | 860.6  | 811.0  | 662.4  | 513.9  | 470.5  | 427.2  | 380.8  | 331.2  | 349.8  | 365.3  | 377.7  |
| 25°   | 752.2  | 603.6  | 520.1  | 436.5  | 368.4  | 297.2  | 300.3  | 303.4  | 287.9  | 272.4  | 343.6  |
| 27.5° | 761.5  | 575.8  | 445.8  | 315.7  | 291.0  | 263.1  | 247.6  | 229.1  | 253.8  | 275.5  | 281.7  |
| 30°   | 798.7  | 498.4  | 377.7  | 256.9  | 229.1  | 201.2  | 210.5  | 216.7  | 216.7  | 216.7  | 247.6  |
| 32.5° | 708.9  | 433.4  | 321.9  | 207.4  | 191.9  | 173.4  | 176.4  | 176.4  | 191.9  | 207.4  | 222.9  |
| 35°   | 600.5  | 340.5  | 263.1  | 182.6  | 167.2  | 151.7  | 157.9  | 164.1  | 179.5  | 195.0  | 216.7  |
| 37.5° | 517.0  | 269.3  | 216.7  | 164.1  | 154.8  | 145.5  | 148.6  | 151.7  | 167.2  | 179.5  | 198.1  |
| 40°   | 436.5  | 226.0  | 191.9  | 157.9  | 148.6  | 139.3  | 142.4  | 142.4  | 154.8  | 167.2  | 179.5  |
| 42.5° | 377.7  | 207.4  | 182.6  | 154.8  | 145.5  | 133.1  | 136.2  | 136.2  | 145.5  | 154.8  | 164.1  |
| 45°   | 325.0  | 198.1  | 176.4  | 151.7  | 142.4  | 130.0  | 130.0  | 126.9  | 136.2  | 142.4  | 148.6  |
| 47.5° | 291.0  | 195.0  | 173.4  | 151.7  | 139.3  | 123.8  | 120.7  | 117.6  | 126.9  | 133.1  | 142.4  |
| 50°   | 272.4  | 195.0  | 173.4  | 148.6  | 133.1  | 117.6  | 114.5  | 111.4  | 123.8  | 133.1  | 148.6  |
| 52.5° | 266.2  | 198.1  | 173.4  | 148.6  | 130.0  | 111.4  | 111.4  | 111.4  | 133.1  | 154.8  | 161.0  |
| 55°   | 266.2  | 204.3  | 176.4  | 145.5  | 126.9  | 108.3  | 114.5  | 120.7  | 126.9  | 133.1  | 133.1  |
| 57.5° | 272.4  | 201.2  | 170.3  | 139.3  | 126.9  | 111.4  | 108.3  | 105.2  | 108.3  | 111.4  | 111.4  |
| 60°   | 300.3  | 195.0  | 164.1  | 133.1  | 117.6  | 102.2  | 99.1   | 96.0   | 102.2  | 105.2  | 105.2  |
| 62.5° | 362.2  | 191.9  | 164.1  | 133.1  | 114.5  | 96.0   | 96.0   | 92.9   | 96.0   | 99.1   | 102.2  |
| 65°   | 442.7  | 213.6  | 173.4  | 133.1  | 114.5  | 96.0   | 89.8   | 83.6   | 89.8   | 92.9   | 92.9   |
| 67.5° | 461.2  | 250.7  | 201.2  | 148.6  | 120.7  | 92.9   | 86.7   | 80.5   | 86.7   | 89.8   | 89.8   |
| 70°   | 417.9  | 275.5  | 216.7  | 157.9  | 126.9  | 92.9   | 86.7   | 77.4   | 80.5   | 83.6   | 80.5   |
| 72.5° | 359.1  | 269.3  | 213.6  | 154.8  | 123.8  | 89.8   | 83.6   | 74.3   | 77.4   | 77.4   | 74.3   |
| 75°   | 306.5  | 232.2  | 182.6  | 130.0  | 105.2  | 77.4   | 71.2   | 65.0   | 68.1   | 68.1   | 68.1   |
| 77.5° | 256.9  | 191.9  | 148.6  | 102.2  | 83.6   | 61.9   | 58.8   | 55.7   | 58.8   | 61.9   | 58.8   |
| 80°   | 201.2  | 145.5  | 111.4  | 74.3   | 61.9   | 46.4   | 49.5   | 49.5   | 52.6   | 52.6   | 52.6   |
| 82.5° | 117.6  | 86.7   | 71.2   | 52.6   | 43.3   | 34.1   | 37.1   | 40.2   | 43.3   | 43.3   | 43.3   |
| 85°   | 71.2   | 55.7   | 46.4   | 37.1   | 31.0   | 21.7   | 27.9   | 31.0   | 31.0   | 31.0   | 27.9   |
| 87.5° | 12.4   | 12.4   | 12.4   | 12.4   | 9.3    | 6.2    | 12.4   | 15.5   | 15.5   | 15.5   | 12.4   |
| 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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|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 2411.4 | 2411.4 | 2411.4 | 2411.4 |
| 2.5°  | 2015.2 | 2015.2 | 2012.1 | 2012.1 |
| 5°    | 1851.1 | 1845.0 | 1838.8 | 1845.0 |
| 7.5°  | 1473.5 | 1430.1 | 1386.8 | 1399.2 |
| 10°   | 1476.6 | 1473.5 | 1470.4 | 1467.3 |
| 12.5° | 1068.0 | 1033.9 | 999.9  | 978.2  |
| 15°   | 907.0  | 897.7  | 885.3  | 885.3  |
| 17.5° | 612.9  | 585.1  | 557.2  | 538.6  |
| 20°   | 523.1  | 538.6  | 551.0  | 557.2  |
| 22.5° | 390.0  | 402.4  | 414.8  | 421.0  |
| 25°   | 411.7  | 442.7  | 470.5  | 473.6  |
| 27.5° | 284.8  | 300.3  | 312.7  | 306.5  |
| 30°   | 278.6  | 287.9  | 297.2  | 297.2  |
| 32.5° | 238.4  | 263.1  | 287.9  | 291.0  |
| 35°   | 238.4  | 250.7  | 263.1  | 266.2  |
| 37.5° | 213.6  | 222.9  | 229.1  | 232.2  |
| 40°   | 191.9  | 198.1  | 201.2  | 201.2  |
| 42.5° | 170.3  | 185.7  | 198.1  | 198.1  |
| 45°   | 151.7  | 191.9  | 232.2  | 244.5  |
| 47.5° | 148.6  | 207.4  | 266.2  | 278.6  |
| 50°   | 161.0  | 216.7  | 269.3  | 275.5  |
| 52.5° | 164.1  | 195.0  | 222.9  | 222.9  |
| 55°   | 130.0  | 145.5  | 157.9  | 154.8  |
| 57.5° | 111.4  | 123.8  | 133.1  | 133.1  |
| 60°   | 105.2  | 120.7  | 133.1  | 136.2  |
| 62.5° | 102.2  | 108.3  | 114.5  | 120.7  |
| 65°   | 92.9   | 92.9   | 92.9   | 92.9   |
| 67.5° | 86.7   | 86.7   | 83.6   | 83.6   |
| 70°   | 77.4   | 77.4   | 77.4   | 77.4   |
| 72.5° | 71.2   | 71.2   | 71.2   | 68.1   |
| 75°   | 65.0   | 65.0   | 61.9   | 61.9   |
| 77.5° | 55.7   | 55.7   | 55.7   | 55.7   |
| 80°   | 49.5   | 49.5   | 46.4   | 46.4   |
| 82.5° | 40.2   | 40.2   | 37.1   | 34.1   |
| 85°   | 24.8   | 24.8   | 21.7   | 18.6   |
| 87.5° | 9.3    | 9.3    | 6.2    | 3.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

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