

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: P452097

Luminaire Tested: **GLAN-SA3A-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452097  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12329 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 93  
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

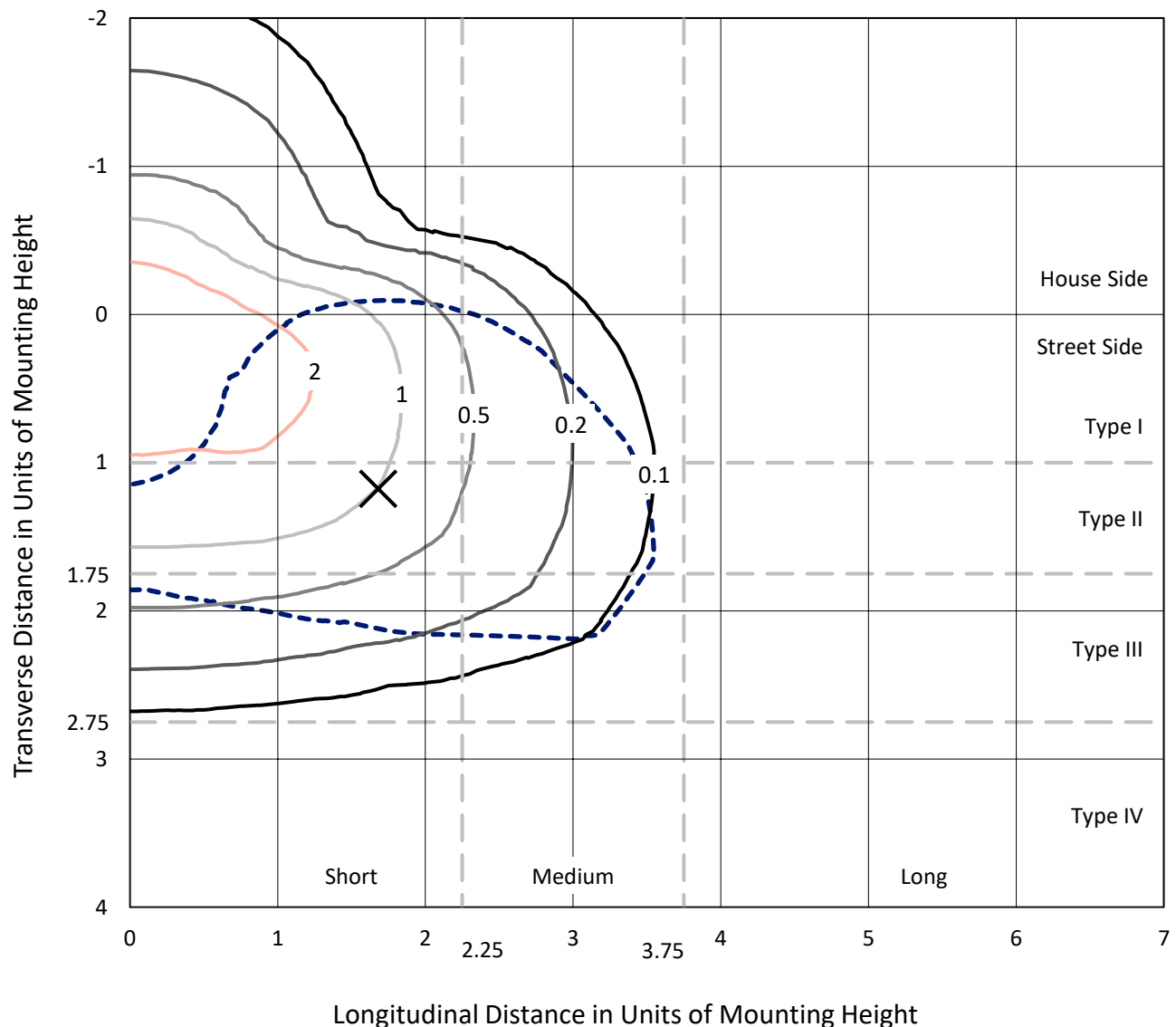


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



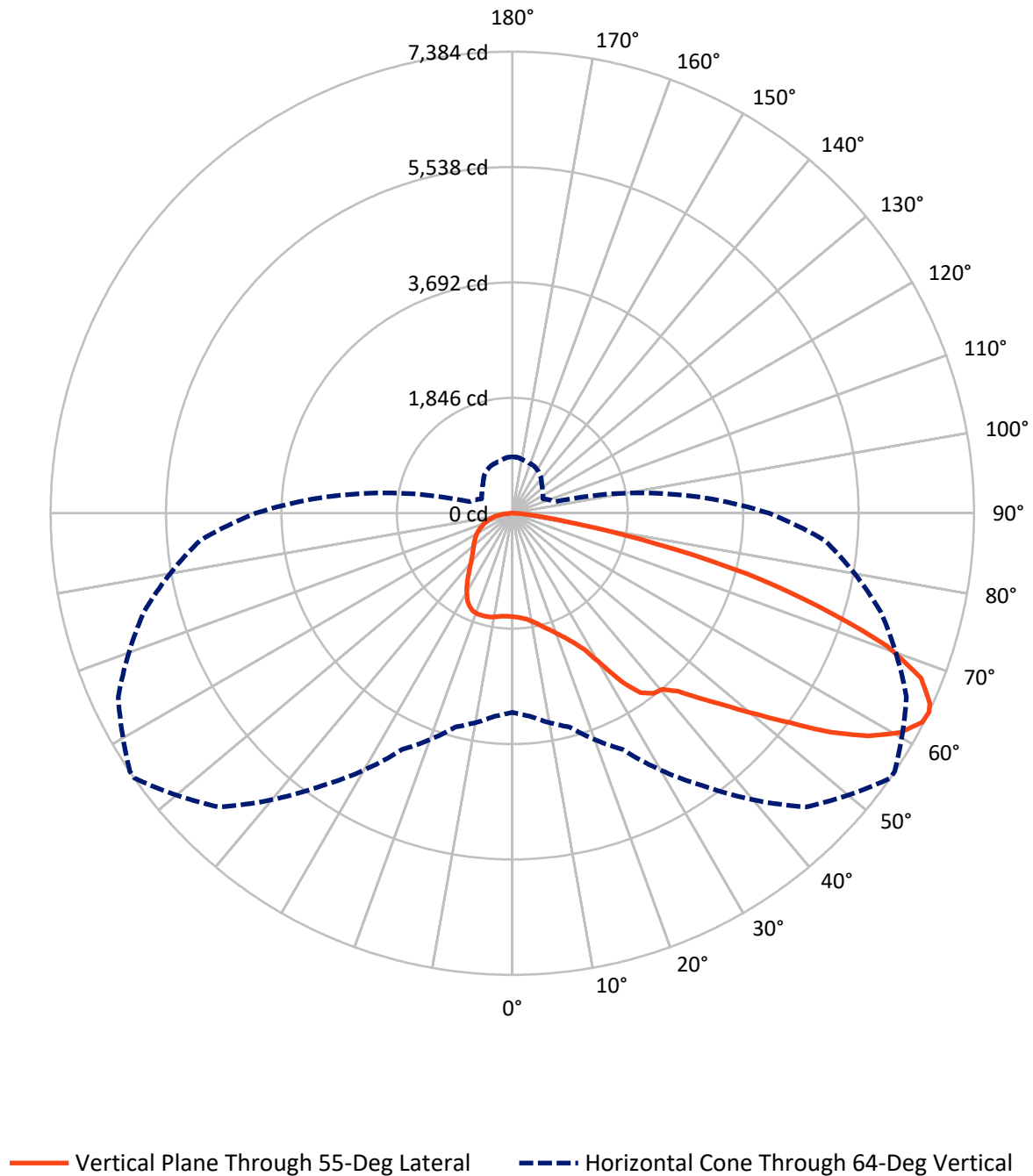
Based on 25 foot mounting height. Maximum calculated value = 3 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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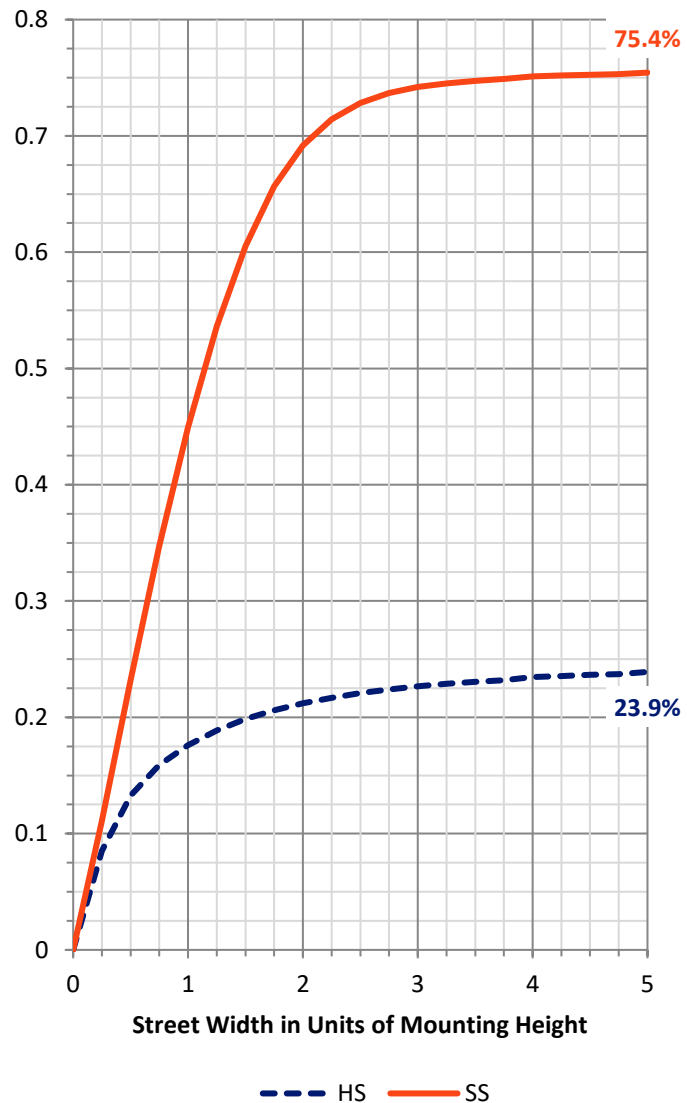
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2995.0   | 0.0    | 2995.0  |
|                    | % Fixture | 24.3     | 0.0    | 24.3    |
| <b>Street Side</b> | Lumens    | 9334.0   | 0.0    | 9334.0  |
|                    | % Fixture | 75.7     | 0.0    | 75.7    |
| <b>Total</b>       | Lumens    | 12329.0  | 0.0    | 12329.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 160.9   | 1.3       |
| 10°-20°   | 507.7   | 4.1       |
| 20°-30°   | 903.9   | 7.3       |
| 30°-40°   | 1390.7  | 11.3      |
| 40°-50°   | 1971.4  | 16.0      |
| 50°-60°   | 2853.6  | 23.1      |
| 60°-70°   | 2953.1  | 24.0      |
| 70°-80°   | 1383.0  | 11.2      |
| 80°-90°   | 204.7   | 1.7       |
| 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°    | 12329.0 | 100.0     |
| 0°-180°   | 12329.0 | 100.0     |

**Coefficient of Utilization**



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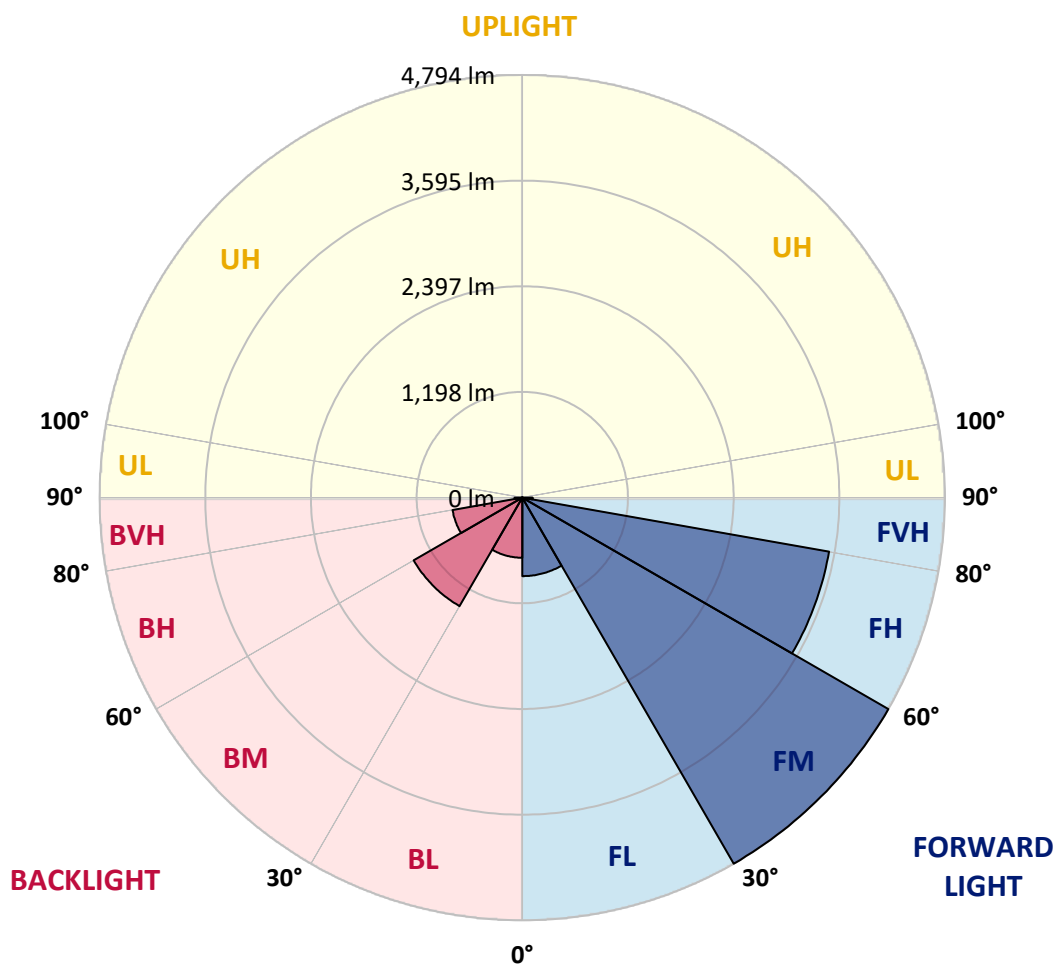
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 890.4  | 7.2       |                         |      |         |
| FM   | (30°-60°)   | 4793.9 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 3532.6 | 28.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 117.2  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 682.1  | 5.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1421.8 | 11.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 803.5  | 6.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 87.5   | 0.7       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 |
| 2.5°  | 1672.7 | 1672.0 | 1674.1 | 1672.0 | 1673.4 | 1668.6 | 1666.5 | 1667.9 | 1665.9 | 1662.4 | 1656.2 |
| 5°    | 1693.4 | 1692.7 | 1693.4 | 1690.6 | 1692.0 | 1689.2 | 1684.4 | 1685.8 | 1682.4 | 1674.8 | 1665.9 |
| 7.5°  | 1728.4 | 1725.7 | 1725.7 | 1725.0 | 1722.2 | 1718.1 | 1714.7 | 1713.3 | 1709.8 | 1700.2 | 1686.5 |
| 10°   | 1773.8 | 1773.8 | 1774.4 | 1768.9 | 1772.4 | 1764.8 | 1761.4 | 1760.7 | 1749.0 | 1736.6 | 1717.4 |
| 12.5° | 1833.5 | 1837.0 | 1834.9 | 1832.2 | 1830.8 | 1828.1 | 1816.4 | 1819.1 | 1806.1 | 1784.8 | 1761.4 |
| 15°   | 1907.8 | 1913.3 | 1909.8 | 1908.5 | 1905.0 | 1894.7 | 1889.9 | 1887.8 | 1870.7 | 1839.7 | 1808.8 |
| 17.5° | 2006.0 | 1999.2 | 1996.4 | 1993.0 | 1978.6 | 1971.0 | 1962.7 | 1961.4 | 1946.3 | 1909.8 | 1861.7 |
| 20°   | 2091.9 | 2101.6 | 2096.1 | 2092.6 | 2078.2 | 2063.8 | 2057.6 | 2055.5 | 2042.5 | 2002.6 | 1925.6 |
| 22.5° | 2194.3 | 2196.4 | 2198.5 | 2190.2 | 2183.4 | 2172.4 | 2161.4 | 2157.9 | 2153.1 | 2111.9 | 2017.7 |
| 25°   | 2303.6 | 2311.9 | 2305.0 | 2296.7 | 2288.5 | 2287.8 | 2298.1 | 2296.7 | 2294.7 | 2254.8 | 2140.1 |
| 27.5° | 2481.6 | 2489.2 | 2491.2 | 2482.3 | 2450.7 | 2453.4 | 2476.8 | 2484.4 | 2516.0 | 2450.0 | 2297.4 |
| 30°   | 2581.9 | 2589.5 | 2606.7 | 2640.4 | 2690.5 | 2734.5 | 2790.9 | 2808.1 | 2838.3 | 2713.9 | 2484.4 |
| 32.5° | 2643.8 | 2646.6 | 2677.5 | 2740.0 | 2890.5 | 3054.8 | 3208.0 | 3214.2 | 3233.5 | 3058.9 | 2655.5 |
| 35°   | 2741.4 | 2743.5 | 2768.2 | 2836.9 | 3013.5 | 3287.1 | 3524.2 | 3531.7 | 3515.9 | 3166.1 | 2735.2 |
| 37.5° | 2861.7 | 2867.2 | 2883.0 | 2940.0 | 3151.0 | 3481.5 | 3655.4 | 3649.9 | 3509.7 | 3251.3 | 2876.1 |
| 40°   | 3036.9 | 3036.9 | 3018.3 | 3095.3 | 3296.0 | 3592.9 | 3701.5 | 3691.8 | 3654.7 | 3498.0 | 3090.5 |
| 42.5° | 3191.5 | 3188.8 | 3232.8 | 3285.0 | 3477.4 | 3764.7 | 3894.6 | 3910.4 | 3971.5 | 3808.0 | 3334.5 |
| 45°   | 3392.9 | 3405.3 | 3430.0 | 3524.8 | 3786.0 | 4058.1 | 4225.8 | 4240.9 | 4327.5 | 4172.9 | 3619.7 |
| 47.5° | 3596.3 | 3600.4 | 3678.1 | 3804.5 | 4168.1 | 4456.0 | 4593.5 | 4618.2 | 4697.3 | 4599.7 | 3926.9 |
| 50°   | 3740.6 | 3779.8 | 3904.2 | 4103.5 | 4561.9 | 4941.2 | 5048.4 | 5078.0 | 5217.5 | 5064.3 | 4284.9 |
| 52.5° | 3893.2 | 3931.7 | 4083.6 | 4387.3 | 5014.1 | 5437.4 | 5569.4 | 5589.3 | 5734.3 | 5534.3 | 4651.2 |
| 55°   | 4023.8 | 4059.5 | 4232.0 | 4638.9 | 5374.2 | 5943.9 | 6183.1 | 6159.7 | 6229.1 | 5896.5 | 4933.7 |
| 57.5° | 4045.1 | 4073.9 | 4291.1 | 4799.7 | 5645.0 | 6378.2 | 6721.2 | 6734.9 | 6654.5 | 6167.3 | 5166.6 |
| 60°   | 3880.1 | 3939.2 | 4188.7 | 4782.5 | 5766.6 | 6680.6 | 7122.5 | 7132.1 | 6904.0 | 6306.1 | 5259.4 |
| 62.5° | 3588.1 | 3581.9 | 3883.6 | 4506.2 | 5596.2 | 6749.4 | 7358.9 | 7348.6 | 7001.6 | 6239.4 | 5169.4 |
| 64°   | 3184.7 | 3258.9 | 3540.6 | 4166.7 | 5321.3 | 6643.5 | 7383.7 | 7378.2 | 6954.8 | 6100.6 | 5016.1 |
| 65°   | 2938.6 | 2934.5 | 3212.8 | 3889.1 | 5047.8 | 6484.1 | 7339.7 | 7332.1 | 6857.3 | 5976.2 | 4897.3 |
| 67.5° | 2121.5 | 2131.1 | 2406.0 | 3001.2 | 4103.5 | 5860.8 | 7053.1 | 7024.9 | 6472.4 | 5563.9 | 4445.0 |
| 70°   | 1285.1 | 1290.6 | 1506.4 | 1990.9 | 2945.5 | 4737.8 | 6357.6 | 6359.0 | 5883.4 | 4948.1 | 3783.2 |
| 72.5° | 676.9  | 691.4  | 778.0  | 1130.5 | 1788.9 | 3324.2 | 5157.7 | 5280.0 | 5051.2 | 4223.1 | 2988.8 |
| 75°   | 376.6  | 378.7  | 439.8  | 557.3  | 912.7  | 1860.4 | 3876.7 | 3911.8 | 3999.0 | 3399.1 | 2210.2 |
| 77.5° | 287.3  | 291.4  | 310.6  | 360.1  | 496.9  | 862.5  | 2346.2 | 2522.2 | 2818.4 | 2396.4 | 1261.1 |
| 80°   | 233.0  | 237.1  | 253.6  | 283.1  | 330.6  | 408.9  | 1090.0 | 1184.8 | 1508.5 | 1063.8 | 492.1  |
| 82.5° | 181.4  | 178.7  | 200.0  | 219.2  | 240.5  | 241.9  | 447.4  | 494.8  | 614.4  | 457.7  | 213.0  |
| 85°   | 134.7  | 134.7  | 151.9  | 147.8  | 155.3  | 141.6  | 197.2  | 217.9  | 246.0  | 194.5  | 99.0   |
| 87.5° | 53.6   | 59.1   | 99.6   | 89.3   | 69.4   | 55.7   | 72.8   | 77.0   | 85.2   | 76.3   | 41.2   |
| 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°    | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 |
| 2.5°  | 1656.9 | 1659.0 | 1654.2 | 1650.7 | 1649.4 | 1647.3 | 1645.2 | 1645.9 | 1648.7 | 1651.4 | 1650.7 |
| 5°    | 1665.2 | 1665.9 | 1657.6 | 1653.5 | 1650.7 | 1648.0 | 1648.0 | 1650.1 | 1655.6 | 1659.7 | 1659.7 |
| 7.5°  | 1685.8 | 1685.8 | 1674.1 | 1666.5 | 1662.4 | 1657.6 | 1656.2 | 1656.9 | 1661.1 | 1666.5 | 1667.2 |
| 10°   | 1718.1 | 1715.3 | 1700.2 | 1688.5 | 1681.0 | 1669.3 | 1659.0 | 1653.5 | 1655.6 | 1659.0 | 1659.0 |
| 12.5° | 1757.3 | 1749.7 | 1730.5 | 1714.7 | 1696.1 | 1674.1 | 1652.8 | 1641.8 | 1641.1 | 1644.6 | 1643.2 |
| 15°   | 1799.2 | 1790.9 | 1764.1 | 1735.3 | 1703.0 | 1670.7 | 1645.2 | 1629.4 | 1617.1 | 1613.6 | 1621.2 |
| 17.5° | 1848.0 | 1830.8 | 1793.7 | 1753.8 | 1705.7 | 1663.8 | 1623.9 | 1591.6 | 1569.6 | 1563.5 | 1565.5 |
| 20°   | 1907.1 | 1884.4 | 1834.2 | 1771.7 | 1703.7 | 1639.1 | 1577.2 | 1533.9 | 1498.2 | 1487.2 | 1488.6 |
| 22.5° | 1988.9 | 1949.7 | 1876.2 | 1780.6 | 1686.5 | 1592.3 | 1506.4 | 1450.1 | 1406.8 | 1389.6 | 1399.9 |
| 25°   | 2081.6 | 2039.0 | 1916.0 | 1778.6 | 1641.8 | 1517.4 | 1422.6 | 1349.0 | 1309.9 | 1284.4 | 1289.9 |
| 27.5° | 2209.5 | 2133.9 | 1958.6 | 1760.0 | 1577.9 | 1426.0 | 1316.1 | 1246.6 | 1210.9 | 1197.9 | 1204.0 |
| 30°   | 2373.0 | 2256.9 | 2004.7 | 1709.8 | 1476.9 | 1310.6 | 1208.9 | 1163.5 | 1142.2 | 1125.7 | 1131.2 |
| 32.5° | 2491.2 | 2343.5 | 2015.0 | 1625.3 | 1367.6 | 1205.4 | 1136.0 | 1102.3 | 1079.0 | 1063.2 | 1066.6 |
| 35°   | 2575.8 | 2417.0 | 2010.2 | 1521.5 | 1253.5 | 1118.8 | 1078.3 | 1050.8 | 1013.0 | 978.6  | 972.4  |
| 37.5° | 2689.2 | 2509.1 | 1975.1 | 1408.1 | 1140.8 | 1060.4 | 1031.5 | 980.7  | 926.4  | 880.4  | 878.3  |
| 40°   | 2863.0 | 2617.0 | 1900.2 | 1274.8 | 1044.6 | 1017.1 | 982.1  | 916.1  | 857.7  | 820.6  | 817.8  |
| 42.5° | 3042.4 | 2716.6 | 1798.5 | 1134.6 | 965.6  | 971.8  | 929.1  | 863.9  | 828.1  | 804.1  | 801.3  |
| 45°   | 3261.6 | 2824.5 | 1688.5 | 1013.0 | 907.2  | 929.1  | 883.1  | 845.3  | 824.0  | 808.2  | 804.1  |
| 47.5° | 3498.7 | 2935.2 | 1564.8 | 903.7  | 857.7  | 890.0  | 863.9  | 846.7  | 835.0  | 824.0  | 819.2  |
| 50°   | 3754.4 | 3058.9 | 1448.7 | 815.8  | 813.0  | 849.4  | 861.8  | 855.6  | 848.7  | 845.3  | 841.2  |
| 52.5° | 4034.8 | 3185.3 | 1351.1 | 753.9  | 773.8  | 820.6  | 862.5  | 867.3  | 867.3  | 865.2  | 862.5  |
| 55°   | 4224.4 | 3273.3 | 1252.1 | 703.7  | 734.0  | 797.2  | 861.1  | 879.7  | 886.5  | 883.8  | 881.0  |
| 57.5° | 4364.6 | 3321.4 | 1127.8 | 660.4  | 700.3  | 774.5  | 853.5  | 881.0  | 887.9  | 891.3  | 890.0  |
| 60°   | 4393.5 | 3276.7 | 964.9  | 615.1  | 663.9  | 741.5  | 826.1  | 860.4  | 869.4  | 890.7  | 892.7  |
| 62.5° | 4263.6 | 3139.3 | 802.7  | 570.4  | 619.2  | 691.4  | 788.9  | 837.1  | 854.9  | 887.9  | 891.3  |
| 64°   | 4104.2 | 2985.4 | 712.7  | 542.2  | 590.3  | 663.2  | 770.4  | 830.9  | 854.2  | 898.2  | 901.0  |
| 65°   | 3987.3 | 2873.3 | 656.3  | 524.4  | 571.8  | 644.6  | 760.1  | 832.9  | 860.4  | 914.0  | 918.1  |
| 67.5° | 3557.1 | 2487.8 | 542.9  | 482.4  | 527.8  | 613.0  | 762.1  | 850.1  | 859.0  | 920.2  | 919.5  |
| 70°   | 2943.4 | 1980.6 | 455.0  | 444.0  | 485.2  | 587.6  | 753.9  | 822.6  | 823.3  | 863.9  | 854.2  |
| 72.5° | 2204.0 | 1463.8 | 394.5  | 404.1  | 437.8  | 527.1  | 712.0  | 785.5  | 773.8  | 779.3  | 769.7  |
| 75°   | 1514.0 | 968.3  | 339.5  | 361.5  | 388.3  | 465.9  | 652.9  | 713.4  | 694.8  | 687.9  | 681.1  |
| 77.5° | 808.2  | 535.4  | 282.5  | 319.6  | 337.4  | 402.7  | 569.7  | 628.1  | 608.9  | 582.1  | 573.2  |
| 80°   | 327.1  | 252.2  | 227.5  | 264.6  | 274.9  | 324.4  | 474.2  | 510.6  | 496.2  | 449.5  | 434.3  |
| 82.5° | 164.2  | 151.2  | 178.7  | 208.2  | 208.9  | 231.6  | 352.6  | 386.9  | 354.6  | 297.6  | 284.5  |
| 85°   | 85.9   | 88.7   | 123.0  | 146.4  | 129.2  | 125.1  | 211.7  | 234.3  | 215.1  | 186.9  | 168.4  |
| 87.5° | 30.9   | 35.7   | 64.6   | 63.9   | 45.4   | 24.1   | 46.7   | 22.7   | 12.4   | 7.6    | 9.6    |
| 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)