

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: P451405

Luminaire Tested: **GLAN-SA2B-730-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2B-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10398 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 82  
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

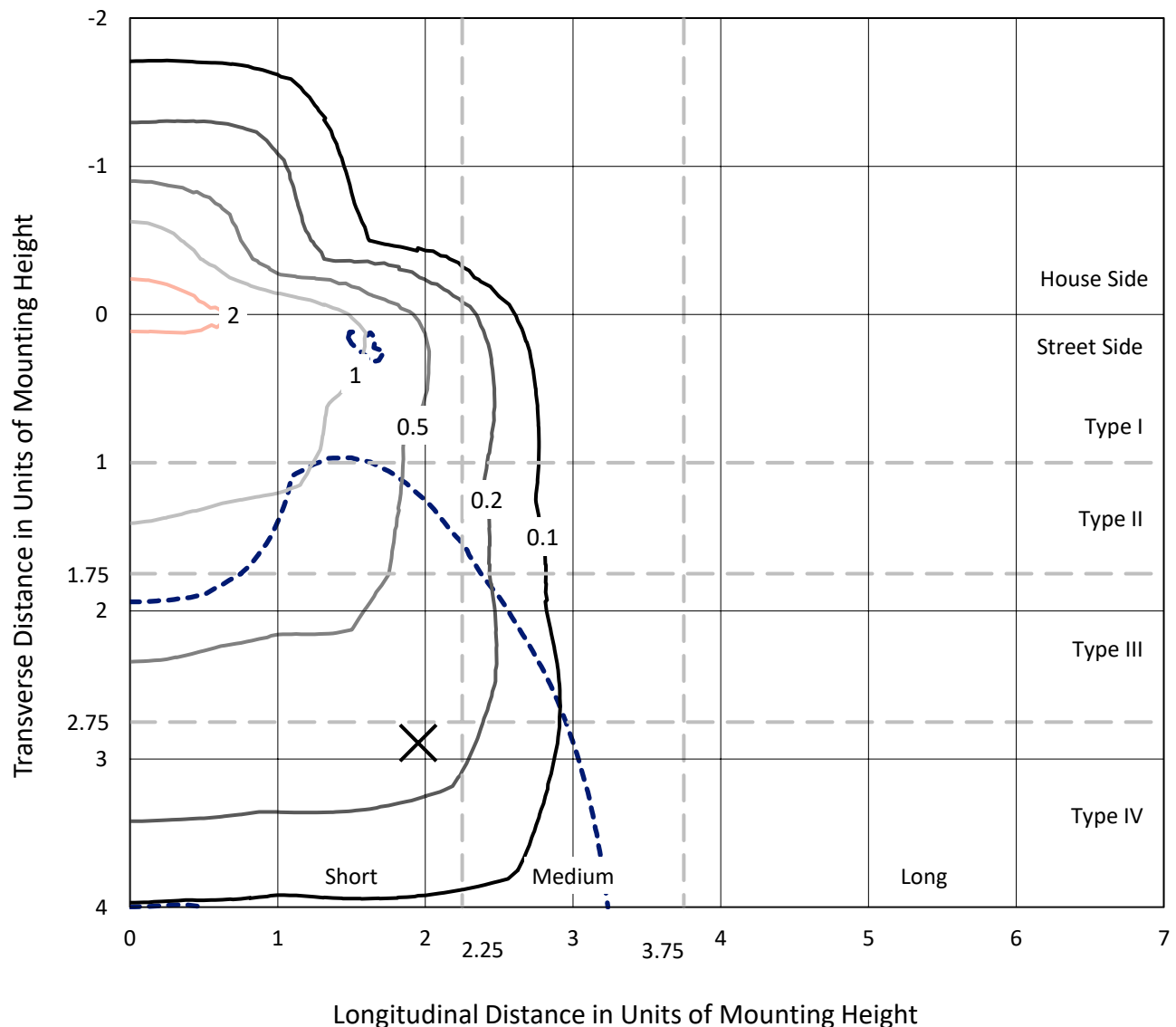


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

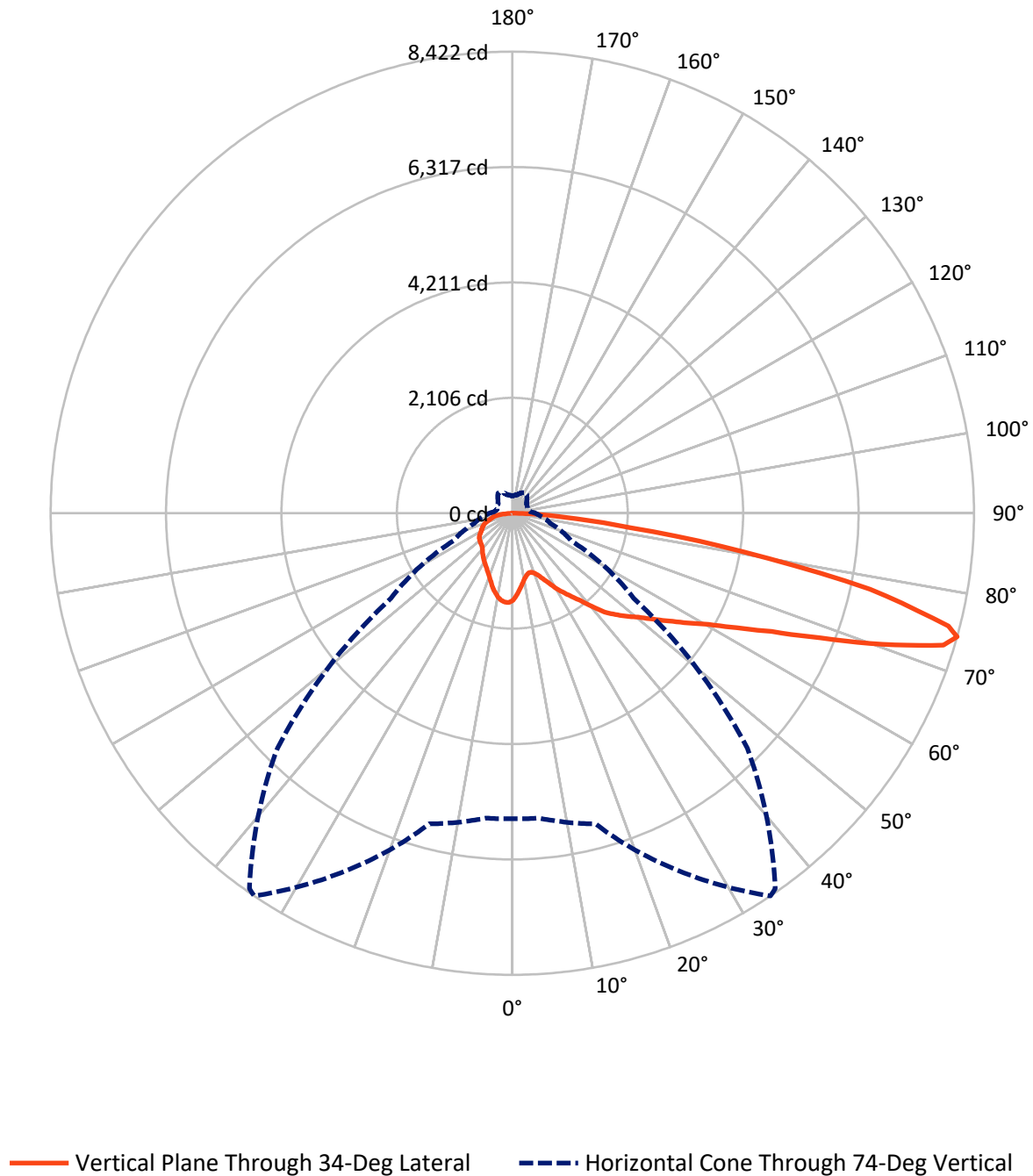


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2212.8   | 0.0    | 2212.8  |
|                    | % Fixture | 21.3     | 0.0    | 21.3    |
| <b>Street Side</b> | Lumens    | 8185.2   | 0.0    | 8185.2  |
|                    | % Fixture | 78.7     | 0.0    | 78.7    |
| <b>Total</b>       | Lumens    | 10398.0  | 0.0    | 10398.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 144.4   | 1.4       |
| 10°-20°   | 395.2   | 3.8       |
| 20°-30°   | 651.7   | 6.3       |
| 30°-40°   | 976.1   | 9.4       |
| 40°-50°   | 1419.0  | 13.6      |
| 50°-60°   | 1982.0  | 19.1      |
| 60°-70°   | 2481.3  | 23.9      |
| 70°-80°   | 2051.9  | 19.7      |
| 80°-90°   | 296.5   | 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°    | 10398.0 | 100.0     |
| 0°-180°   | 10398.0 | 100.0     |

**Coefficient of Utilization**



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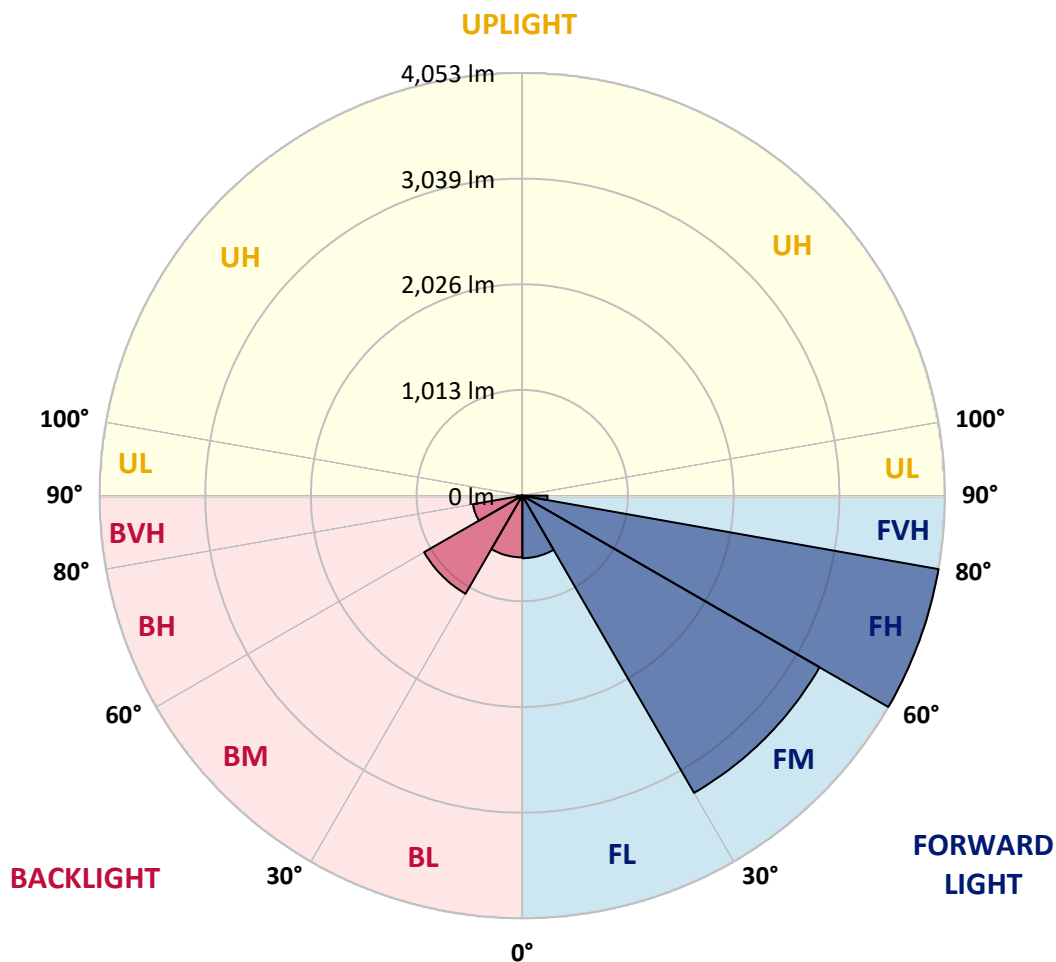
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 599.4  | 5.8       |                         |      |         |
| FM   | (30°-60°)   | 3290.4 | 31.6      |                         |      |         |
| FH   | (60°-80°)   | 4052.6 | 39.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 242.9  | 2.3       |                         |      | G3/500  |
| BL   | (0°-30°)    | 591.9  | 5.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1086.7 | 10.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 480.6  | 4.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 53.6   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 |
| 2.5°  | 1467.2 | 1474.7 | 1478.7 | 1493.1 | 1496.6 | 1501.2 | 1513.3 | 1529.4 | 1550.1 | 1568.6 | 1584.7 |
| 5°    | 1345.1 | 1356.6 | 1363.5 | 1376.2 | 1400.9 | 1403.2 | 1435.5 | 1472.4 | 1514.4 | 1553.6 | 1585.8 |
| 7.5°  | 1229.3 | 1241.9 | 1247.7 | 1270.7 | 1303.6 | 1308.8 | 1356.0 | 1414.2 | 1484.5 | 1543.8 | 1593.3 |
| 10°   | 1142.3 | 1148.6 | 1161.3 | 1178.6 | 1217.8 | 1221.2 | 1282.8 | 1360.6 | 1451.6 | 1539.2 | 1606.0 |
| 12.5° | 1095.1 | 1098.5 | 1101.4 | 1119.8 | 1158.4 | 1163.6 | 1228.1 | 1316.3 | 1425.7 | 1542.6 | 1626.7 |
| 15°   | 1102.0 | 1103.1 | 1090.4 | 1093.9 | 1125.0 | 1132.5 | 1196.4 | 1286.9 | 1409.6 | 1551.3 | 1657.8 |
| 17.5° | 1160.1 | 1156.1 | 1125.0 | 1108.9 | 1130.8 | 1134.2 | 1190.1 | 1275.4 | 1402.1 | 1567.4 | 1690.1 |
| 20°   | 1251.7 | 1246.0 | 1192.4 | 1156.7 | 1169.4 | 1172.2 | 1210.8 | 1284.0 | 1409.6 | 1593.9 | 1740.2 |
| 22.5° | 1365.8 | 1363.5 | 1282.3 | 1239.1 | 1238.5 | 1238.5 | 1258.6 | 1315.1 | 1432.0 | 1630.2 | 1792.6 |
| 25°   | 1525.4 | 1513.3 | 1407.3 | 1351.4 | 1335.8 | 1334.7 | 1332.4 | 1366.4 | 1460.8 | 1668.8 | 1854.9 |
| 27.5° | 1689.0 | 1668.2 | 1573.7 | 1487.9 | 1454.5 | 1450.5 | 1435.5 | 1439.0 | 1497.7 | 1712.6 | 1925.7 |
| 30°   | 1835.8 | 1822.6 | 1733.9 | 1638.8 | 1599.1 | 1589.9 | 1548.4 | 1529.4 | 1559.3 | 1791.5 | 2038.6 |
| 32.5° | 1948.2 | 1940.1 | 1871.0 | 1784.6 | 1725.8 | 1724.1 | 1663.6 | 1648.1 | 1655.5 | 1887.1 | 2167.6 |
| 35°   | 2039.2 | 2042.1 | 2006.9 | 1932.0 | 1864.6 | 1854.9 | 1814.5 | 1794.9 | 1773.1 | 2025.4 | 2330.1 |
| 37.5° | 2163.6 | 2169.9 | 2167.6 | 2103.1 | 2020.8 | 2023.1 | 2013.8 | 1981.6 | 1923.4 | 2179.7 | 2510.4 |
| 40°   | 2300.7 | 2305.3 | 2304.7 | 2280.0 | 2236.8 | 2239.1 | 2235.6 | 2198.7 | 2111.8 | 2376.2 | 2710.8 |
| 42.5° | 2490.2 | 2468.3 | 2411.3 | 2436.1 | 2461.4 | 2472.4 | 2496.0 | 2460.8 | 2341.6 | 2585.8 | 2899.2 |
| 45°   | 2702.2 | 2660.7 | 2531.7 | 2543.2 | 2637.1 | 2657.9 | 2788.0 | 2739.7 | 2591.0 | 2826.6 | 3121.0 |
| 47.5° | 2835.8 | 2795.0 | 2686.1 | 2683.8 | 2808.2 | 2828.4 | 3058.8 | 3040.9 | 2818.0 | 3086.4 | 3391.7 |
| 50°   | 2955.1 | 2949.3 | 2826.6 | 2856.0 | 2977.6 | 3007.5 | 3353.7 | 3337.0 | 3044.4 | 3392.9 | 3686.7 |
| 52.5° | 3131.9 | 3085.3 | 2987.3 | 3047.8 | 3208.5 | 3247.7 | 3646.3 | 3597.4 | 3252.3 | 3663.6 | 3973.0 |
| 55°   | 3211.4 | 3200.5 | 3194.7 | 3247.1 | 3467.8 | 3496.0 | 3930.9 | 3818.6 | 3429.7 | 3892.9 | 4190.7 |
| 57.5° | 3424.0 | 3403.8 | 3460.9 | 3496.6 | 3773.1 | 3816.3 | 4228.1 | 4049.6 | 3585.3 | 4074.9 | 4296.7 |
| 60°   | 3699.3 | 3688.4 | 3740.8 | 3805.3 | 4114.1 | 4179.8 | 4566.9 | 4246.6 | 3710.3 | 4166.5 | 4238.5 |
| 62.5° | 4110.6 | 4109.5 | 4099.7 | 4237.9 | 4597.4 | 4657.9 | 4955.7 | 4438.4 | 3729.9 | 4098.0 | 3937.8 |
| 65°   | 4700.5 | 4679.8 | 4594.5 | 4745.4 | 5198.8 | 5269.6 | 5360.6 | 4545.5 | 3611.8 | 3746.0 | 3315.7 |
| 67.5° | 5317.4 | 5316.3 | 5247.2 | 5443.0 | 6062.3 | 6135.4 | 5867.0 | 4521.9 | 3284.0 | 3034.6 | 2354.9 |
| 70°   | 5829.0 | 5804.2 | 5892.3 | 6414.2 | 7165.4 | 7250.1 | 6310.0 | 4243.7 | 2615.8 | 2004.0 | 1399.2 |
| 72.5° | 5951.7 | 5952.8 | 6136.0 | 7163.1 | 8224.7 | 8238.0 | 6469.5 | 3439.5 | 1750.6 | 1105.4 | 699.9  |
| 74°   | 5573.8 | 5583.6 | 5867.6 | 7200.5 | 8422.3 | 8362.4 | 6061.7 | 2703.4 | 1183.8 | 721.8  | 504.6  |
| 75°   | 5087.6 | 5026.0 | 5436.7 | 6951.1 | 8217.2 | 8152.7 | 5584.1 | 2169.4 | 903.2  | 576.6  | 441.8  |
| 77.5° | 2720.1 | 2782.9 | 3416.5 | 5187.2 | 6675.7 | 6601.4 | 3786.3 | 1040.3 | 487.9  | 401.5  | 318.0  |
| 80°   | 968.3  | 1068.0 | 1501.2 | 2714.3 | 4280.0 | 4303.0 | 1807.0 | 477.0  | 343.3  | 296.1  | 224.7  |
| 82.5° | 395.2  | 406.1  | 644.6  | 1204.5 | 2173.4 | 2194.1 | 737.9  | 283.4  | 245.4  | 203.9  | 134.2  |
| 85°   | 154.4  | 159.0  | 285.1  | 541.5  | 927.4  | 987.9  | 255.2  | 149.8  | 150.9  | 116.9  | 68.5   |
| 87.5° | 51.8   | 58.8   | 116.9  | 180.3  | 315.1  | 308.8  | 74.3   | 44.4   | 54.1   | 50.7   | 21.3   |
| 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°    | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 | 1587.6 |
| 2.5°  | 1592.8 | 1603.7 | 1611.2 | 1619.3 | 1626.7 | 1629.0 | 1627.3 | 1632.5 | 1633.1 | 1633.7 | 1634.2 |
| 5°    | 1602.0 | 1616.9 | 1631.3 | 1639.4 | 1642.9 | 1640.0 | 1630.2 | 1625.0 | 1620.4 | 1616.9 | 1618.1 |
| 7.5°  | 1614.6 | 1636.0 | 1649.2 | 1652.7 | 1643.4 | 1630.2 | 1606.0 | 1587.0 | 1574.9 | 1566.8 | 1566.3 |
| 10°   | 1634.2 | 1655.0 | 1665.9 | 1656.1 | 1630.8 | 1598.5 | 1560.5 | 1524.8 | 1497.7 | 1489.6 | 1489.1 |
| 12.5° | 1659.0 | 1682.6 | 1682.0 | 1653.2 | 1608.9 | 1551.3 | 1489.6 | 1448.2 | 1411.3 | 1392.9 | 1400.4 |
| 15°   | 1691.3 | 1709.1 | 1692.4 | 1640.6 | 1570.3 | 1491.4 | 1415.3 | 1358.9 | 1317.4 | 1297.8 | 1299.0 |
| 17.5° | 1728.7 | 1744.3 | 1699.9 | 1618.1 | 1516.1 | 1414.8 | 1326.6 | 1273.1 | 1240.2 | 1225.8 | 1224.7 |
| 20°   | 1775.4 | 1780.0 | 1699.9 | 1578.9 | 1446.4 | 1325.5 | 1241.4 | 1203.9 | 1185.5 | 1178.0 | 1180.3 |
| 22.5° | 1825.5 | 1816.3 | 1690.7 | 1523.6 | 1354.8 | 1232.2 | 1175.7 | 1159.0 | 1149.8 | 1148.6 | 1149.8 |
| 25°   | 1881.9 | 1856.0 | 1671.7 | 1448.7 | 1259.2 | 1151.5 | 1118.7 | 1121.6 | 1123.3 | 1123.3 | 1127.3 |
| 27.5° | 1951.1 | 1899.2 | 1640.0 | 1354.3 | 1147.5 | 1076.6 | 1067.4 | 1087.6 | 1096.8 | 1098.5 | 1101.4 |
| 30°   | 2042.1 | 1946.4 | 1587.6 | 1236.2 | 1052.4 | 1009.2 | 1025.4 | 1052.4 | 1062.8 | 1069.1 | 1068.0 |
| 32.5° | 2150.4 | 1998.3 | 1516.7 | 1118.1 | 975.8  | 962.0  | 981.6  | 1009.2 | 1020.7 | 1024.2 | 1019.6 |
| 35°   | 2277.7 | 2057.0 | 1423.4 | 1007.5 | 909.0  | 917.1  | 940.1  | 948.7  | 959.1  | 959.1  | 961.4  |
| 37.5° | 2414.8 | 2104.3 | 1309.3 | 906.1  | 857.1  | 886.5  | 903.2  | 895.2  | 890.6  | 884.8  | 887.7  |
| 40°   | 2554.2 | 2139.4 | 1161.3 | 805.9  | 805.3  | 854.8  | 859.5  | 836.4  | 818.0  | 812.2  | 809.3  |
| 42.5° | 2675.7 | 2161.3 | 1027.7 | 728.1  | 756.3  | 823.7  | 827.2  | 790.3  | 761.0  | 743.7  | 737.9  |
| 45°   | 2819.1 | 2186.7 | 896.9  | 663.6  | 710.8  | 799.0  | 807.6  | 758.1  | 714.9  | 678.6  | 669.4  |
| 47.5° | 3015.6 | 2244.3 | 793.8  | 613.5  | 678.0  | 783.4  | 795.5  | 731.6  | 674.5  | 627.3  | 619.8  |
| 50°   | 3237.4 | 2323.2 | 713.7  | 579.5  | 652.7  | 769.6  | 784.6  | 704.5  | 637.1  | 584.7  | 578.9  |
| 52.5° | 3440.7 | 2365.8 | 644.6  | 549.0  | 627.9  | 744.2  | 770.2  | 684.9  | 600.2  | 542.1  | 536.9  |
| 55°   | 3551.9 | 2296.7 | 576.6  | 519.0  | 593.9  | 711.4  | 750.0  | 657.8  | 564.5  | 519.6  | 512.1  |
| 57.5° | 3566.8 | 2153.8 | 515.0  | 486.8  | 558.2  | 671.1  | 712.6  | 625.0  | 541.5  | 504.0  | 497.7  |
| 60°   | 3451.1 | 1940.7 | 467.2  | 460.3  | 521.9  | 625.6  | 670.5  | 596.2  | 517.9  | 486.8  | 480.4  |
| 62.5° | 3163.0 | 1709.1 | 433.8  | 436.1  | 485.0  | 577.8  | 639.4  | 568.6  | 495.4  | 467.7  | 462.0  |
| 65°   | 2667.6 | 1410.7 | 401.5  | 411.3  | 452.2  | 540.3  | 611.2  | 545.5  | 472.9  | 453.3  | 448.2  |
| 67.5° | 1853.1 | 1018.4 | 375.0  | 385.4  | 421.1  | 502.3  | 578.3  | 520.7  | 447.6  | 437.2  | 429.2  |
| 70°   | 1025.9 | 626.7  | 343.9  | 356.0  | 388.8  | 459.7  | 541.5  | 483.3  | 410.7  | 406.1  | 394.6  |
| 72.5° | 539.2  | 399.2  | 308.8  | 322.0  | 345.0  | 405.0  | 485.0  | 442.4  | 374.4  | 354.8  | 339.9  |
| 74°   | 421.1  | 327.2  | 285.1  | 299.0  | 314.5  | 372.7  | 451.6  | 413.0  | 348.5  | 325.5  | 313.9  |
| 75°   | 366.9  | 291.5  | 265.0  | 282.8  | 296.7  | 350.8  | 425.7  | 392.3  | 334.1  | 312.2  | 301.8  |
| 77.5° | 259.2  | 218.3  | 216.6  | 237.9  | 245.4  | 307.6  | 383.6  | 357.1  | 297.8  | 274.8  | 265.0  |
| 80°   | 182.0  | 163.6  | 171.7  | 184.9  | 195.3  | 271.9  | 356.0  | 308.8  | 244.2  | 217.2  | 213.7  |
| 82.5° | 118.7  | 107.1  | 122.7  | 134.8  | 138.2  | 200.5  | 287.4  | 234.4  | 178.0  | 144.6  | 134.2  |
| 85°   | 54.7   | 53.6   | 70.3   | 68.5   | 68.0   | 97.9   | 170.5  | 137.1  | 102.5  | 76.6   | 72.0   |
| 87.5° | 13.8   | 13.2   | 17.3   | 14.4   | 17.3   | 15.0   | 15.6   | 4.0    | 0.6    | 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)