

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: P527096

Luminaire Tested: **GLAN-SA2A-750-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2A-750-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

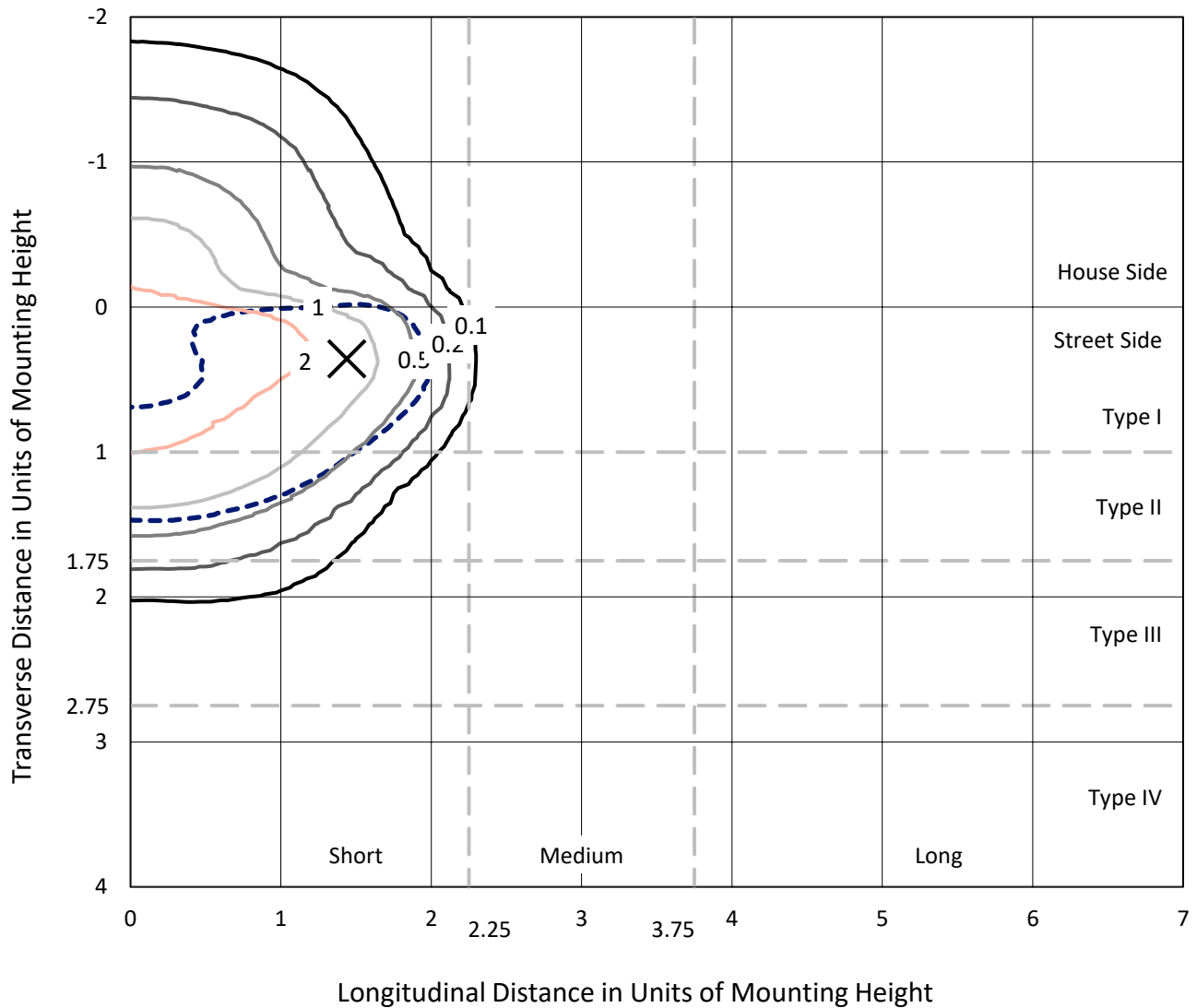
Lumens per Lamp: N/A  
Luminaire Lumens: 7714 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

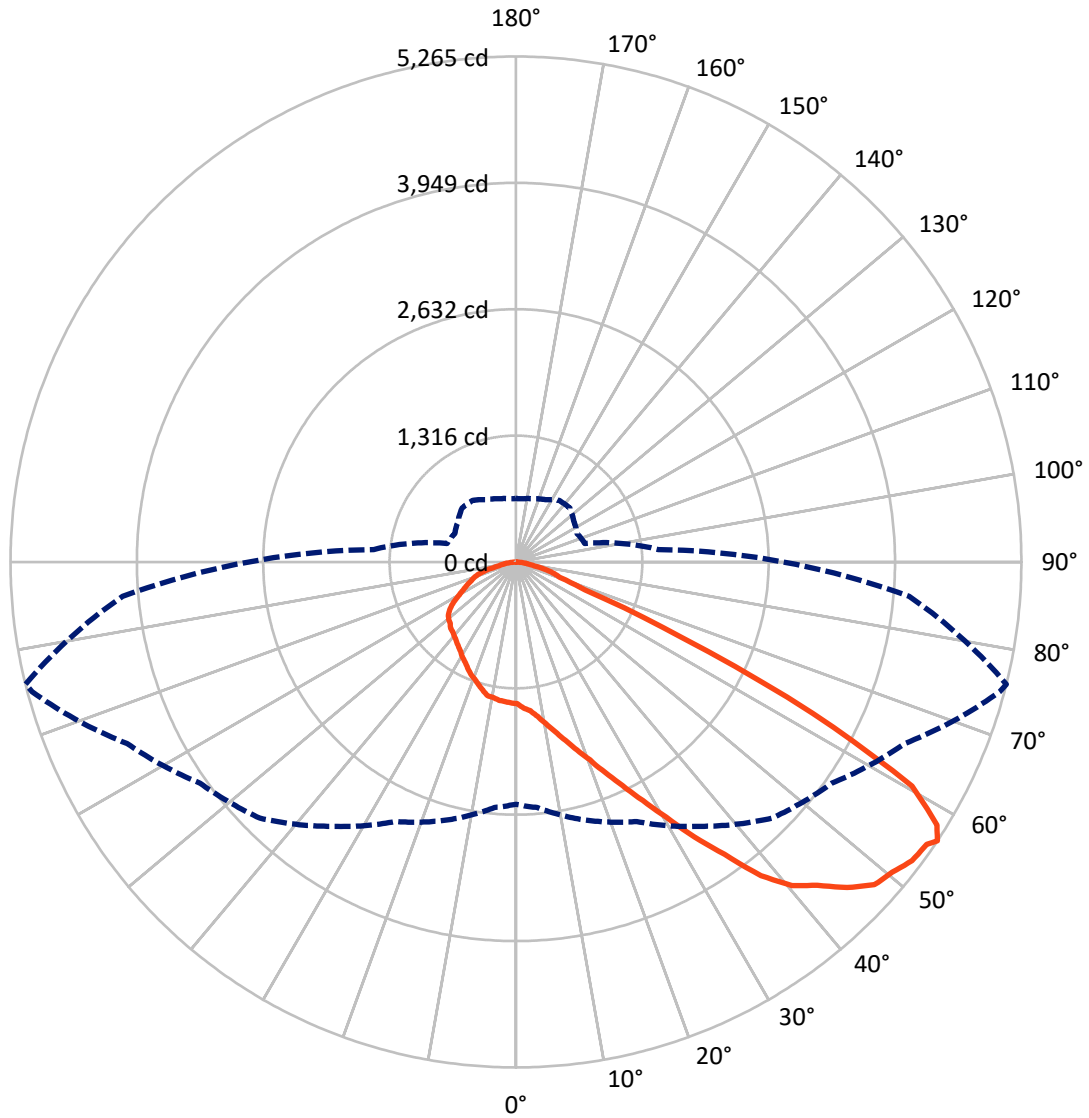
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2074.1   | 0.0    | 2074.1 |
|                    | % Fixture | 26.9     | 0.0    | 26.9   |
| <b>Street Side</b> | Lumens    | 5639.9   | 0.0    | 5639.9 |
|                    | % Fixture | 73.1     | 0.0    | 73.1   |
| <b>Total</b>       | Lumens    | 7714.0   | 0.0    | 7714.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.4  | 1.9       |
| 10°-20°   | 459.8  | 6.0       |
| 20°-30°   | 804.1  | 10.4      |
| 30°-40°   | 1259.0 | 16.3      |
| 40°-50°   | 1831.5 | 23.7      |
| 50°-60°   | 2013.0 | 26.1      |
| 60°-70°   | 898.5  | 11.6      |
| 70°-80°   | 259.5  | 3.4       |
| 80°-90°   | 42.1   | 0.5       |
| 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°    | 7714.0 | 100.0     |
| 0°-180°   | 7714.0 | 100.0     |

**Coefficient of Utilization**



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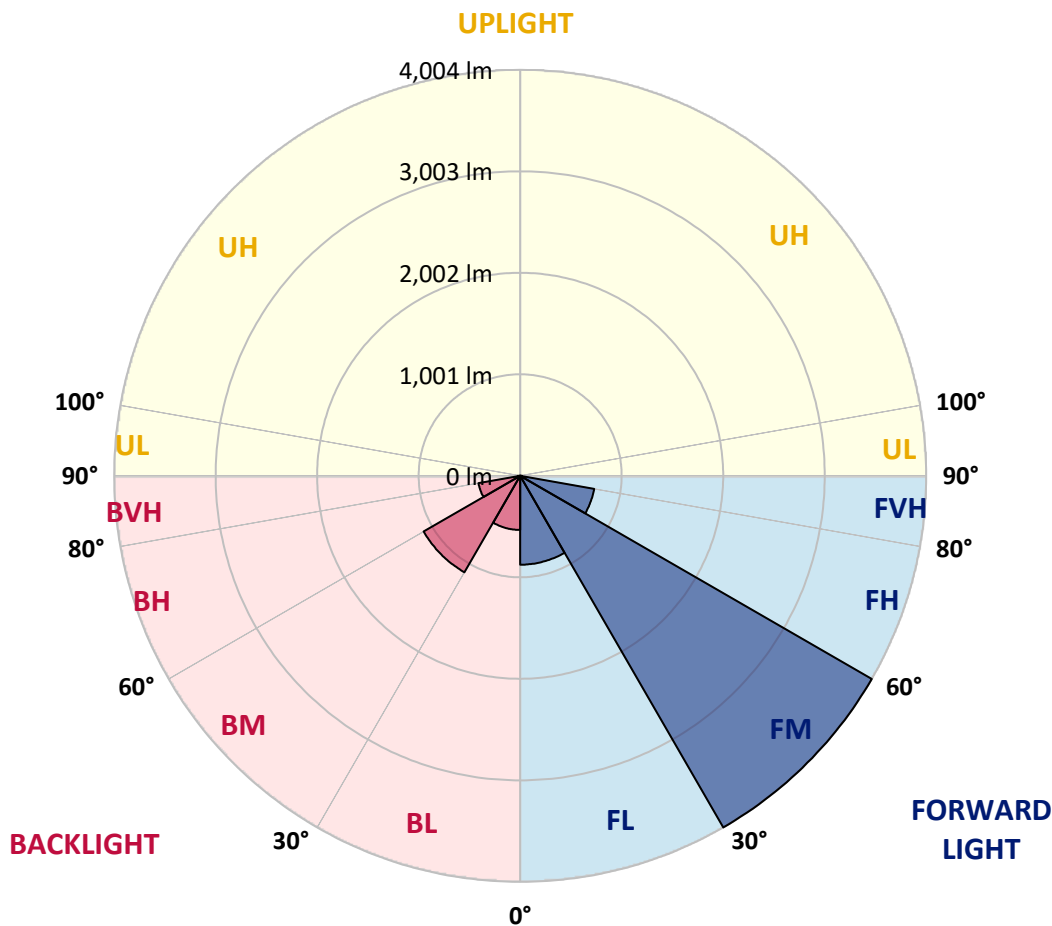
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 876.6  | 11.4      |                         |      |         |
| FM (30°-60°)   | 4004.5 | 51.9      |                         |      |         |
| FH (60°-80°)   | 740.7  | 9.6       |                         |      | G1/1800 |
| FVH (80°-90°)  | 18.1   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 533.7  | 6.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 1099.1 | 14.2      | B2/2500                 |      |         |
| BH (60°-80°)   | 417.3  | 5.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 24.0   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 |
| 2.5°  | 1626.0 | 1600.0 | 1598.0 | 1591.0 | 1595.0 | 1577.0 | 1558.0 | 1533.0 | 1507.0 | 1523.0 | 1485.0 |
| 5°    | 1740.0 | 1705.0 | 1719.0 | 1695.0 | 1698.0 | 1674.0 | 1635.0 | 1606.0 | 1574.0 | 1555.0 | 1528.0 |
| 7.5°  | 1780.0 | 1783.0 | 1793.0 | 1789.0 | 1769.0 | 1769.0 | 1743.0 | 1692.0 | 1636.0 | 1625.0 | 1580.0 |
| 10°   | 1834.0 | 1835.0 | 1824.0 | 1827.0 | 1855.0 | 1842.0 | 1819.0 | 1797.0 | 1725.0 | 1712.0 | 1632.0 |
| 12.5° | 1853.0 | 1835.0 | 1853.0 | 1869.0 | 1902.0 | 1920.0 | 1915.0 | 1899.0 | 1822.0 | 1813.0 | 1696.0 |
| 15°   | 1856.0 | 1845.0 | 1860.0 | 1896.0 | 1925.0 | 2001.0 | 2039.0 | 2028.0 | 1926.0 | 1927.0 | 1768.0 |
| 17.5° | 1842.0 | 1857.0 | 1863.0 | 1894.0 | 1961.0 | 2032.0 | 2142.0 | 2157.0 | 2073.0 | 2060.0 | 1859.0 |
| 20°   | 1861.0 | 1850.0 | 1858.0 | 1886.0 | 1975.0 | 2086.0 | 2230.0 | 2329.0 | 2211.0 | 2202.0 | 1953.0 |
| 22.5° | 1934.0 | 1919.0 | 1917.0 | 1935.0 | 1999.0 | 2114.0 | 2323.0 | 2501.0 | 2379.0 | 2384.0 | 2070.0 |
| 25°   | 1991.0 | 1999.0 | 1992.0 | 1991.0 | 2031.0 | 2156.0 | 2446.0 | 2706.0 | 2607.0 | 2578.0 | 2208.0 |
| 27.5° | 2089.0 | 2108.0 | 2094.0 | 2113.0 | 2104.0 | 2219.0 | 2534.0 | 2933.0 | 2853.0 | 2814.0 | 2333.0 |
| 30°   | 2225.0 | 2235.0 | 2222.0 | 2222.0 | 2195.0 | 2307.0 | 2614.0 | 3169.9 | 3136.9 | 3083.9 | 2480.0 |
| 32.5° | 2404.0 | 2419.0 | 2393.0 | 2378.0 | 2374.0 | 2438.0 | 2758.0 | 3403.9 | 3459.9 | 3414.9 | 2675.0 |
| 35°   | 2641.0 | 2632.0 | 2601.0 | 2587.0 | 2533.0 | 2639.0 | 2971.9 | 3672.9 | 3819.9 | 3739.9 | 2911.0 |
| 37.5° | 2850.0 | 2836.0 | 2834.0 | 2756.0 | 2769.0 | 2856.0 | 3153.9 | 3876.9 | 4168.9 | 4145.9 | 3159.9 |
| 40°   | 3044.9 | 3057.9 | 3078.9 | 3034.9 | 3014.9 | 3110.9 | 3365.9 | 4032.9 | 4439.9 | 4430.9 | 3351.9 |
| 42.5° | 3253.9 | 3241.9 | 3278.9 | 3241.9 | 3211.9 | 3347.9 | 3595.9 | 4140.9 | 4677.9 | 4603.9 | 3552.9 |
| 45°   | 3556.9 | 3518.9 | 3531.9 | 3534.9 | 3512.9 | 3562.9 | 3690.9 | 4218.9 | 4844.9 | 4836.9 | 3699.9 |
| 47.5° | 3809.9 | 3810.9 | 3788.9 | 3771.9 | 3704.9 | 3754.9 | 3796.9 | 4267.9 | 5036.9 | 5023.9 | 3756.9 |
| 50°   | 3903.9 | 3890.9 | 3954.9 | 3991.9 | 3995.9 | 3893.9 | 3879.9 | 4294.9 | 5137.9 | 5080.9 | 3813.9 |
| 52.5° | 3565.9 | 3577.9 | 3678.9 | 3898.9 | 4025.9 | 4036.9 | 3976.9 | 4350.9 | 5178.9 | 5166.9 | 3859.9 |
| 55°   | 2870.0 | 2928.0 | 3093.9 | 3347.9 | 3648.9 | 3979.9 | 4081.9 | 4408.9 | 5200.9 | 5190.9 | 4063.9 |
| 56°   | 2523.0 | 2568.0 | 2784.0 | 2982.9 | 3360.9 | 3772.9 | 4015.9 | 4470.9 | 5217.9 | 5264.9 | 4111.9 |
| 57.5° | 2031.0 | 2083.0 | 2238.0 | 2464.0 | 2910.0 | 3378.9 | 3833.9 | 4394.9 | 5151.9 | 5169.9 | 4146.9 |
| 60°   | 1270.0 | 1275.0 | 1461.0 | 1610.0 | 1924.0 | 2382.0 | 2926.0 | 3823.9 | 4767.9 | 4741.9 | 3724.9 |
| 62.5° | 833.0  | 834.0  | 1003.0 | 1125.0 | 1268.0 | 1373.0 | 1722.0 | 2536.0 | 3517.9 | 3471.9 | 2652.0 |
| 65°   | 585.0  | 598.0  | 729.0  | 892.0  | 950.0  | 895.0  | 884.0  | 1337.0 | 1965.0 | 1899.0 | 1425.0 |
| 67.5° | 428.0  | 429.0  | 545.0  | 720.0  | 804.0  | 681.0  | 553.0  | 653.0  | 778.0  | 776.0  | 660.0  |
| 70°   | 283.0  | 295.0  | 384.0  | 538.0  | 634.0  | 547.0  | 452.0  | 467.0  | 495.0  | 495.0  | 491.0  |
| 72.5° | 165.0  | 176.0  | 235.0  | 341.0  | 356.0  | 342.0  | 358.0  | 400.0  | 418.0  | 417.0  | 412.0  |
| 75°   | 94.0   | 99.0   | 112.0  | 142.0  | 177.0  | 209.0  | 263.0  | 303.0  | 321.0  | 332.0  | 319.0  |
| 77.5° | 55.0   | 58.0   | 66.0   | 81.0   | 92.0   | 113.0  | 143.0  | 171.0  | 195.0  | 192.0  | 194.0  |
| 80°   | 29.0   | 29.0   | 37.0   | 48.0   | 64.0   | 80.0   | 95.0   | 111.0  | 124.0  | 127.0  | 130.0  |
| 82.5° | 17.0   | 18.0   | 24.0   | 35.0   | 46.0   | 57.0   | 73.0   | 84.0   | 96.0   | 97.0   | 99.0   |
| 85°   | 9.0    | 10.0   | 15.0   | 23.0   | 31.0   | 35.0   | 36.0   | 34.0   | 37.0   | 35.0   | 40.0   |
| 87.5° | 3.0    | 3.0    | 5.0    | 4.0    | 4.0    | 5.0    | 6.0    | 6.0    | 8.0    | 8.0    | 8.0    |
| 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°    | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 |
| 2.5°  | 1484.0 | 1484.0 | 1467.0 | 1435.0 | 1430.0 | 1417.0 | 1405.0 | 1404.0 | 1395.0 | 1387.0 | 1383.0 |
| 5°    | 1512.0 | 1481.0 | 1456.0 | 1427.0 | 1393.0 | 1377.0 | 1359.0 | 1339.0 | 1331.0 | 1339.0 | 1338.0 |
| 7.5°  | 1544.0 | 1518.0 | 1443.0 | 1389.0 | 1350.0 | 1334.0 | 1314.0 | 1293.0 | 1295.0 | 1295.0 | 1281.0 |
| 10°   | 1575.0 | 1540.0 | 1420.0 | 1351.0 | 1294.0 | 1282.0 | 1271.0 | 1279.0 | 1289.0 | 1291.0 | 1282.0 |
| 12.5° | 1627.0 | 1548.0 | 1409.0 | 1313.0 | 1277.0 | 1251.0 | 1258.0 | 1280.0 | 1301.0 | 1295.0 | 1302.0 |
| 15°   | 1666.0 | 1555.0 | 1359.0 | 1274.0 | 1229.0 | 1241.0 | 1266.0 | 1281.0 | 1316.0 | 1312.0 | 1319.0 |
| 17.5° | 1704.0 | 1559.0 | 1310.0 | 1222.0 | 1203.0 | 1236.0 | 1255.0 | 1298.0 | 1309.0 | 1333.0 | 1342.0 |
| 20°   | 1782.0 | 1567.0 | 1260.0 | 1190.0 | 1184.0 | 1222.0 | 1255.0 | 1275.0 | 1299.0 | 1320.0 | 1320.0 |
| 22.5° | 1822.0 | 1563.0 | 1227.0 | 1148.0 | 1167.0 | 1191.0 | 1221.0 | 1255.0 | 1255.0 | 1275.0 | 1276.0 |
| 25°   | 1872.0 | 1547.0 | 1175.0 | 1128.0 | 1142.0 | 1165.0 | 1199.0 | 1187.0 | 1200.0 | 1200.0 | 1216.0 |
| 27.5° | 1929.0 | 1513.0 | 1130.0 | 1092.0 | 1120.0 | 1145.0 | 1150.0 | 1142.0 | 1127.0 | 1125.0 | 1119.0 |
| 30°   | 1975.0 | 1471.0 | 1097.0 | 1080.0 | 1103.0 | 1117.0 | 1101.0 | 1084.0 | 1058.0 | 1056.0 | 1042.0 |
| 32.5° | 2038.0 | 1419.0 | 1056.0 | 1050.0 | 1076.0 | 1077.0 | 1072.0 | 1046.0 | 1008.0 | 992.0  | 976.0  |
| 35°   | 2144.0 | 1389.0 | 1025.0 | 1034.0 | 1042.0 | 1039.0 | 1030.0 | 1002.0 | 964.0  | 957.0  | 951.0  |
| 37.5° | 2222.0 | 1367.0 | 993.0  | 1004.0 | 1011.0 | 1015.0 | 988.0  | 957.0  | 958.0  | 944.0  | 940.0  |
| 40°   | 2310.0 | 1353.0 | 967.0  | 972.0  | 973.0  | 986.0  | 953.0  | 938.0  | 945.0  | 936.0  | 942.0  |
| 42.5° | 2423.0 | 1357.0 | 940.0  | 936.0  | 955.0  | 950.0  | 934.0  | 914.0  | 918.0  | 891.0  | 895.0  |
| 45°   | 2483.0 | 1384.0 | 924.0  | 906.0  | 927.0  | 926.0  | 905.0  | 886.0  | 862.0  | 810.0  | 812.0  |
| 47.5° | 2523.0 | 1391.0 | 886.0  | 874.0  | 896.0  | 909.0  | 885.0  | 841.0  | 807.0  | 770.0  | 761.0  |
| 50°   | 2564.0 | 1404.0 | 868.0  | 843.0  | 852.0  | 883.0  | 853.0  | 811.0  | 778.0  | 745.0  | 750.0  |
| 52.5° | 2600.0 | 1429.0 | 833.0  | 796.0  | 812.0  | 846.0  | 830.0  | 779.0  | 743.0  | 716.0  | 708.0  |
| 55°   | 2760.0 | 1485.0 | 774.0  | 726.0  | 764.0  | 807.0  | 798.0  | 736.0  | 697.0  | 683.0  | 681.0  |
| 56°   | 2785.0 | 1487.0 | 743.0  | 702.0  | 737.0  | 794.0  | 783.0  | 717.0  | 682.0  | 660.0  | 661.0  |
| 57.5° | 2789.0 | 1463.0 | 699.0  | 680.0  | 710.0  | 775.0  | 761.0  | 702.0  | 654.0  | 634.0  | 628.0  |
| 60°   | 2454.0 | 1142.0 | 644.0  | 632.0  | 667.0  | 717.0  | 712.0  | 661.0  | 607.0  | 584.0  | 595.0  |
| 62.5° | 1673.0 | 837.0  | 601.0  | 599.0  | 617.0  | 666.0  | 653.0  | 607.0  | 562.0  | 547.0  | 540.0  |
| 65°   | 974.0  | 635.0  | 559.0  | 551.0  | 566.0  | 592.0  | 601.0  | 553.0  | 506.0  | 496.0  | 493.0  |
| 67.5° | 575.0  | 525.0  | 505.0  | 492.0  | 487.0  | 503.0  | 510.0  | 482.0  | 435.0  | 421.0  | 433.0  |
| 70°   | 481.0  | 467.0  | 468.0  | 446.0  | 434.0  | 423.0  | 417.0  | 392.0  | 353.0  | 335.0  | 330.0  |
| 72.5° | 415.0  | 409.0  | 405.0  | 385.0  | 374.0  | 349.0  | 323.0  | 298.0  | 269.0  | 254.0  | 255.0  |
| 75°   | 317.0  | 315.0  | 317.0  | 307.0  | 288.0  | 268.0  | 244.0  | 212.0  | 190.0  | 171.0  | 175.0  |
| 77.5° | 189.0  | 195.0  | 198.0  | 194.0  | 186.0  | 168.0  | 153.0  | 132.0  | 111.0  | 96.0   | 94.0   |
| 80°   | 130.0  | 135.0  | 140.0  | 135.0  | 127.0  | 114.0  | 98.0   | 82.0   | 67.0   | 59.0   | 57.0   |
| 82.5° | 99.0   | 104.0  | 107.0  | 102.0  | 92.0   | 78.0   | 67.0   | 56.0   | 44.0   | 36.0   | 34.0   |
| 85°   | 36.0   | 41.0   | 40.0   | 48.0   | 52.0   | 50.0   | 43.0   | 33.0   | 25.0   | 18.0   | 17.0   |
| 87.5° | 10.0   | 9.0    | 10.0   | 10.0   | 10.0   | 9.0    | 8.0    | 8.0    | 8.0    | 5.0    | 4.0    |
| 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)