

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: McGRAW-EDISON

Report Number: P652255

Luminaire Tested: **GALN-SA2B-840-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652255  
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: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 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: 9602.5 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

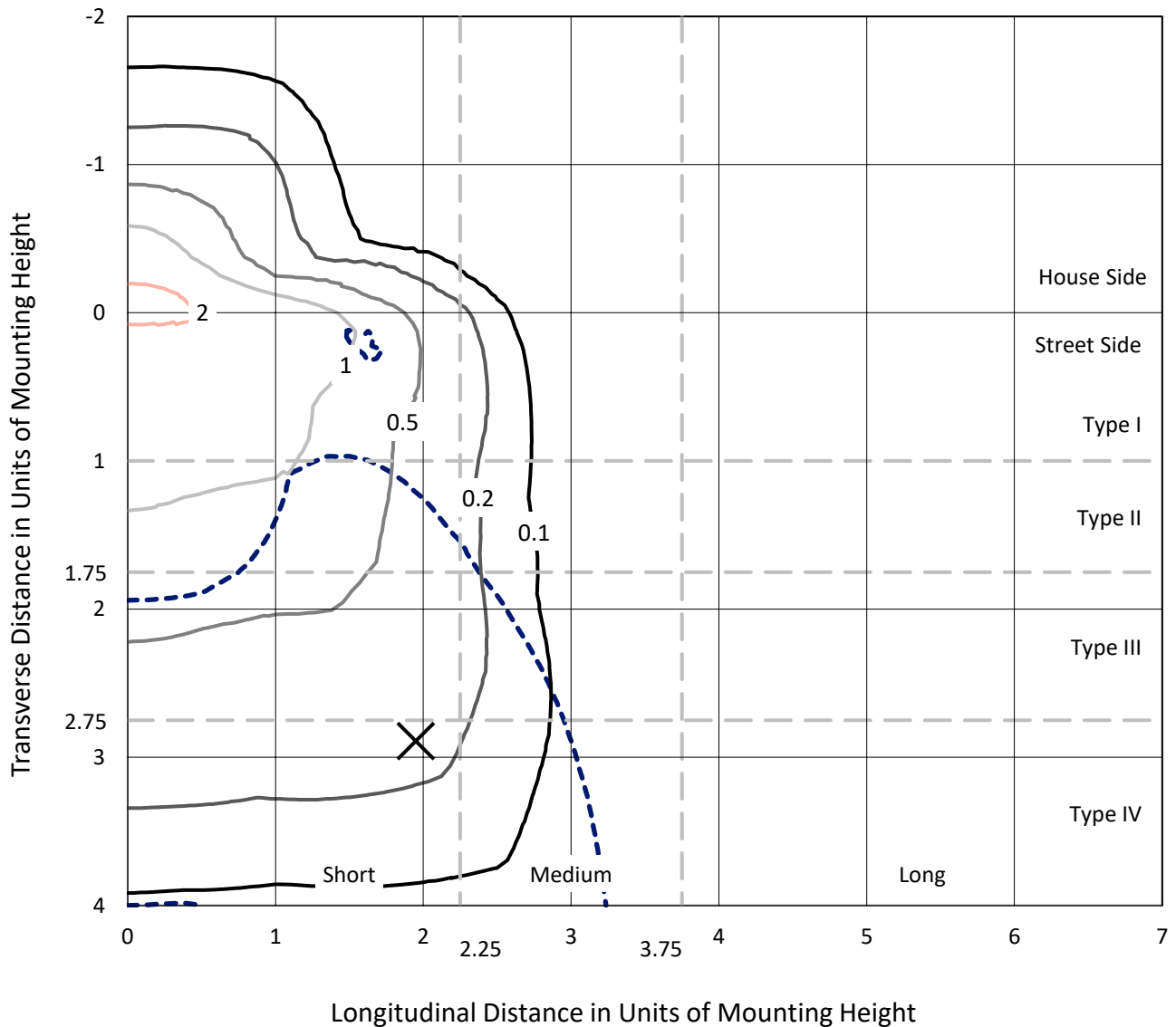
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

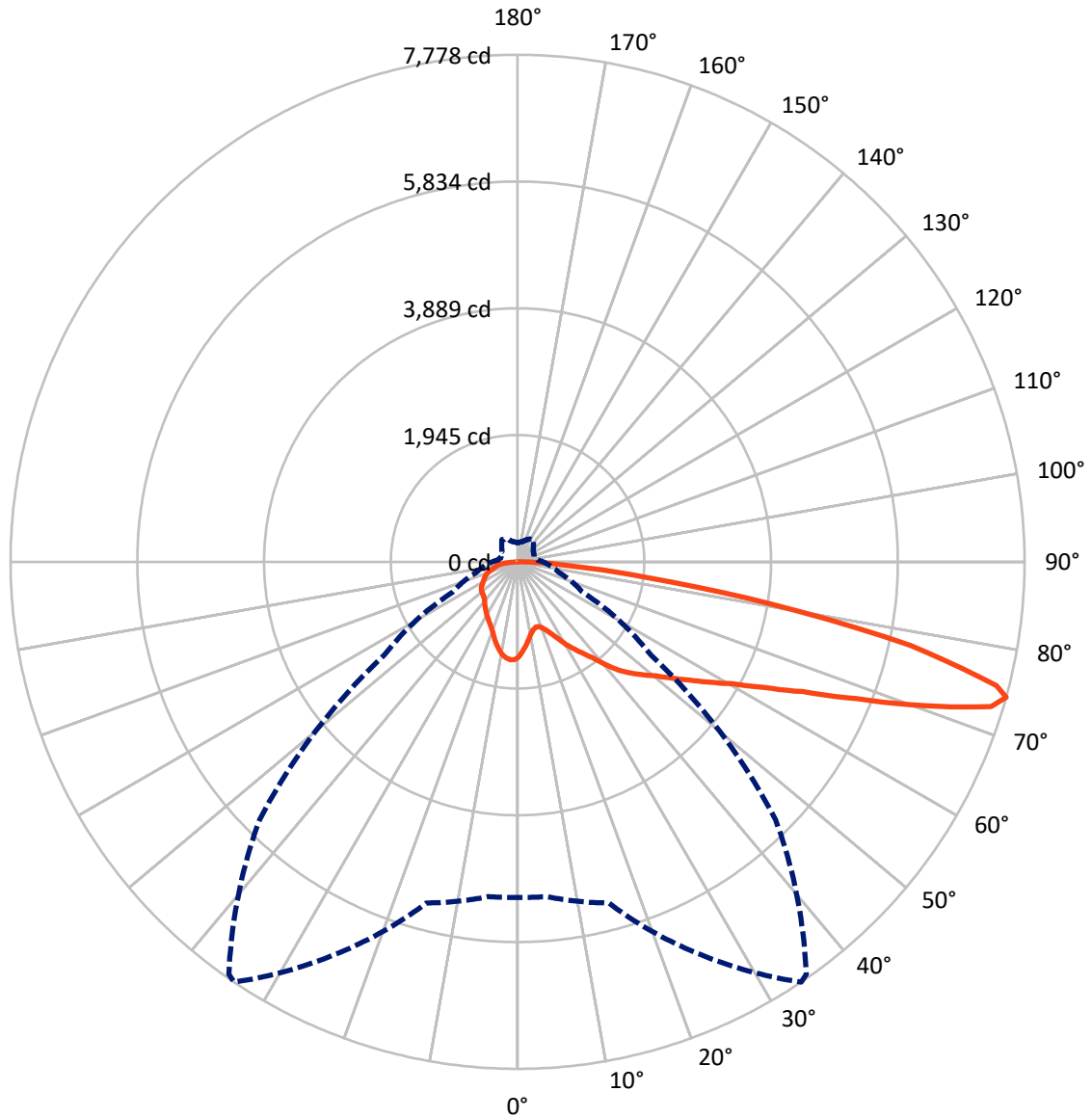
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical



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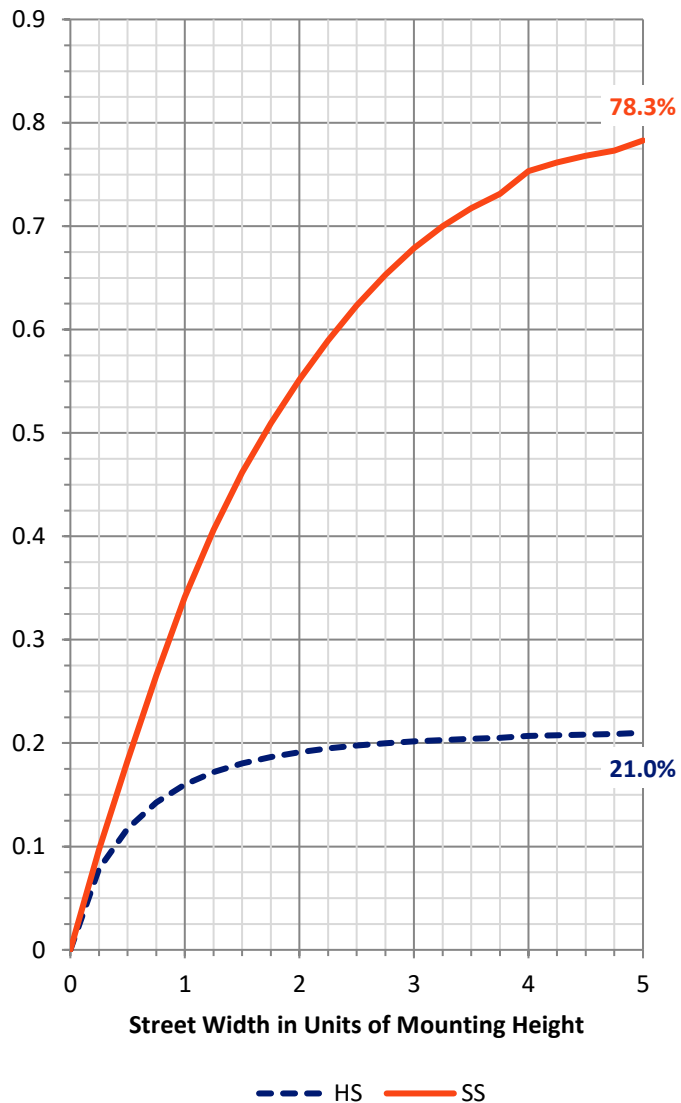
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2043.5   | 0.0    | 2043.5 |
|                    | % Fixture | 21.3     | 0.0    | 21.3   |
| <b>Street Side</b> | Lumens    | 7559.0   | 0.0    | 7559.0 |
|                    | % Fixture | 78.7     | 0.0    | 78.7   |
| <b>Total</b>       | Lumens    | 9602.5   | 0.0    | 9602.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.3  | 1.4       |
| 10°-20°   | 365.0  | 3.8       |
| 20°-30°   | 601.8  | 6.3       |
| 30°-40°   | 901.4  | 9.4       |
| 40°-50°   | 1310.4 | 13.6      |
| 50°-60°   | 1830.4 | 19.1      |
| 60°-70°   | 2291.5 | 23.9      |
| 70°-80°   | 1894.9 | 19.7      |
| 80°-90°   | 273.8  | 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°    | 9602.5 | 100.0     |
| 0°-180°   | 9602.5 | 100.0     |

**Coefficient of Utilization**

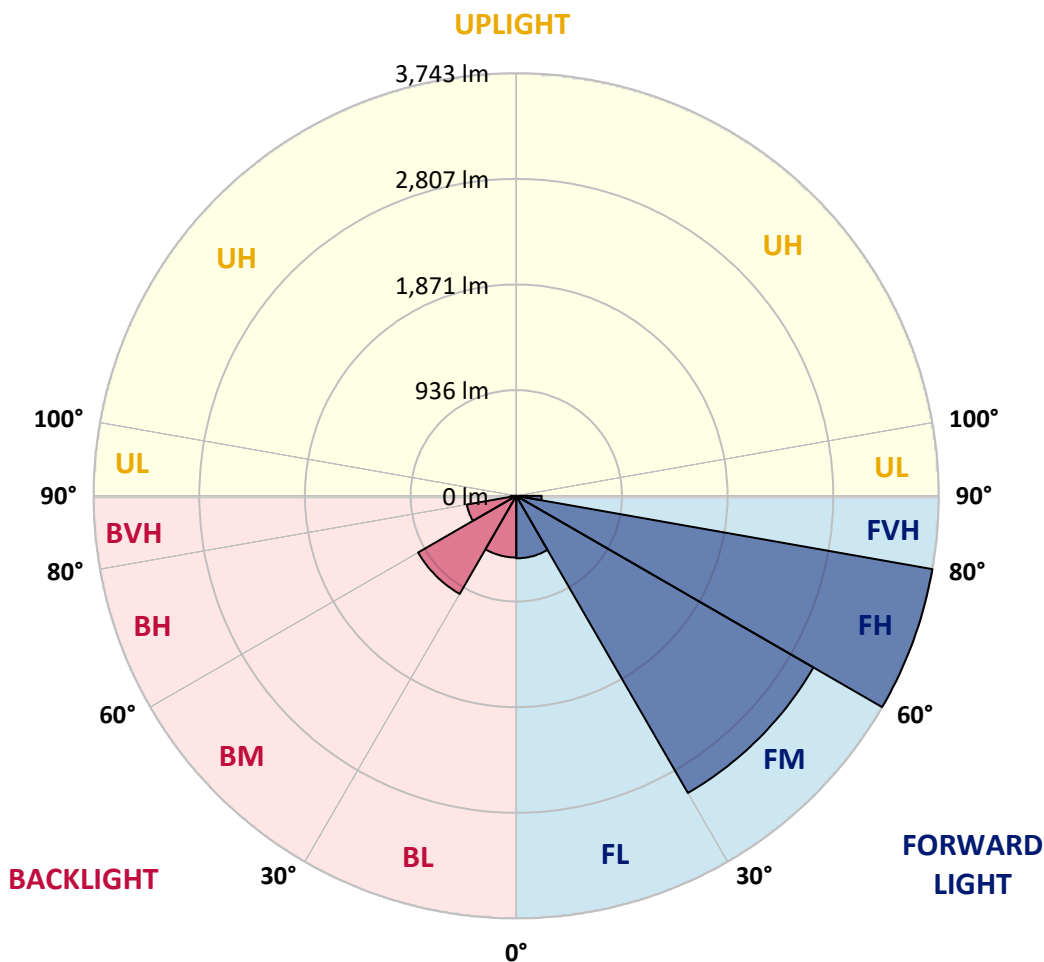


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 553.5  | 5.8       |                         |      |         |
| FM (30°-60°)   | 3038.6 | 31.6      |                         |      |         |
| FH (60°-80°)   | 3742.6 | 39.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 224.3  | 2.3       |                         |      | G2/225  |
| BL (0°-30°)    | 546.6  | 5.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 1003.6 | 10.5      | B2/2500                 |      |         |
| BH (60°-80°)   | 443.8  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 49.5   | 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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 |
| 2.5°  | 1354.9 | 1361.8 | 1365.6 | 1378.9 | 1382.1 | 1386.3 | 1397.5 | 1412.4 | 1431.6 | 1448.5 | 1463.4 |
| 5°    | 1242.2 | 1252.8 | 1259.1 | 1270.9 | 1293.8 | 1295.9 | 1325.7 | 1359.7 | 1398.6 | 1434.7 | 1464.5 |
| 7.5°  | 1135.3 | 1147.0 | 1152.3 | 1173.5 | 1203.9 | 1208.6 | 1252.2 | 1306.0 | 1370.9 | 1425.7 | 1471.4 |
| 10°   | 1054.9 | 1060.8 | 1072.4 | 1088.4 | 1124.6 | 1127.8 | 1184.7 | 1256.5 | 1340.6 | 1421.5 | 1483.1 |
| 12.5° | 1011.3 | 1014.5 | 1017.1 | 1034.2 | 1069.8 | 1074.5 | 1134.2 | 1215.6 | 1316.7 | 1424.7 | 1502.3 |
| 15°   | 1017.7 | 1018.7 | 1007.0 | 1010.2 | 1039.0 | 1045.9 | 1104.9 | 1188.4 | 1301.7 | 1432.6 | 1531.0 |
| 17.5° | 1071.4 | 1067.6 | 1039.0 | 1024.1 | 1044.3 | 1047.5 | 1099.0 | 1177.8 | 1294.8 | 1447.5 | 1560.8 |
| 20°   | 1156.0 | 1150.7 | 1101.2 | 1068.2 | 1079.9 | 1082.5 | 1118.2 | 1185.7 | 1301.7 | 1472.0 | 1607.1 |
| 22.5° | 1261.3 | 1259.1 | 1184.2 | 1144.3 | 1143.8 | 1143.8 | 1162.3 | 1214.5 | 1322.5 | 1505.5 | 1655.5 |
| 25°   | 1408.7 | 1397.5 | 1299.6 | 1248.0 | 1233.7 | 1232.6 | 1230.5 | 1261.8 | 1349.0 | 1541.1 | 1712.9 |
| 27.5° | 1559.7 | 1540.6 | 1453.3 | 1374.1 | 1343.2 | 1339.5 | 1325.7 | 1328.9 | 1383.1 | 1581.6 | 1778.4 |
| 30°   | 1695.4 | 1683.2 | 1601.3 | 1513.5 | 1476.8 | 1468.2 | 1430.0 | 1412.4 | 1440.0 | 1654.4 | 1882.7 |
| 32.5° | 1799.2 | 1791.7 | 1727.8 | 1648.0 | 1593.8 | 1592.2 | 1536.3 | 1522.0 | 1528.9 | 1742.7 | 2001.8 |
| 35°   | 1883.2 | 1885.9 | 1853.4 | 1784.3 | 1722.0 | 1712.9 | 1675.7 | 1657.6 | 1637.4 | 1870.4 | 2151.9 |
| 37.5° | 1998.1 | 2003.9 | 2001.8 | 1942.2 | 1866.2 | 1868.3 | 1859.8 | 1830.0 | 1776.3 | 2013.0 | 2318.3 |
| 40°   | 2124.7 | 2129.0 | 2128.4 | 2105.5 | 2065.7 | 2067.8 | 2064.6 | 2030.5 | 1950.2 | 2194.4 | 2503.5 |
| 42.5° | 2299.7 | 2279.5 | 2226.8 | 2249.7 | 2273.1 | 2283.2 | 2305.0 | 2272.6 | 2162.5 | 2388.0 | 2677.4 |
| 45°   | 2495.5 | 2457.1 | 2338.0 | 2348.7 | 2435.4 | 2454.5 | 2574.7 | 2530.1 | 2392.8 | 2610.4 | 2882.2 |
| 47.5° | 2618.9 | 2581.1 | 2480.6 | 2478.4 | 2593.4 | 2612.0 | 2824.8 | 2808.3 | 2602.4 | 2850.3 | 3132.2 |
| 50°   | 2729.0 | 2723.7 | 2610.4 | 2637.5 | 2749.7 | 2777.4 | 3097.2 | 3081.8 | 2811.5 | 3133.3 | 3404.6 |
| 52.5° | 2892.4 | 2849.2 | 2758.8 | 2814.7 | 2963.1 | 2999.3 | 3367.4 | 3322.2 | 3003.5 | 3383.3 | 3669.0 |
| 55°   | 2965.8 | 2955.6 | 2950.3 | 2998.8 | 3202.4 | 3228.5 | 3630.2 | 3526.5 | 3167.4 | 3595.1 | 3870.1 |
| 57.5° | 3162.1 | 3143.4 | 3196.1 | 3229.1 | 3484.4 | 3524.3 | 3904.7 | 3739.8 | 3311.0 | 3763.1 | 3968.0 |
| 60°   | 3416.3 | 3406.2 | 3454.7 | 3514.2 | 3799.4 | 3860.0 | 4217.4 | 3921.7 | 3426.4 | 3847.7 | 3914.3 |
| 62.5° | 3796.2 | 3795.1 | 3786.0 | 3913.8 | 4245.7 | 4301.5 | 4576.6 | 4098.9 | 3444.5 | 3784.4 | 3636.6 |
| 65°   | 4340.9 | 4321.7 | 4243.0 | 4382.4 | 4801.0 | 4866.5 | 4950.5 | 4197.8 | 3335.5 | 3459.5 | 3062.0 |
| 67.5° | 4910.7 | 4909.6 | 4845.8 | 5026.6 | 5598.5 | 5666.1 | 5418.1 | 4176.0 | 3032.8 | 2802.5 | 2174.7 |
| 70°   | 5383.1 | 5360.2 | 5441.5 | 5923.5 | 6617.2 | 6695.5 | 5827.2 | 3919.1 | 2415.7 | 1850.7 | 1292.2 |
| 72.5° | 5496.4 | 5497.4 | 5666.6 | 6615.1 | 7595.5 | 7607.8 | 5974.5 | 3176.4 | 1616.7 | 1020.9 | 646.3  |
| 74°   | 5147.3 | 5156.4 | 5418.6 | 6649.7 | 7778.0 | 7722.7 | 5597.9 | 2496.5 | 1093.2 | 666.6  | 466.0  |
| 75°   | 4698.4 | 4641.5 | 5020.8 | 6419.4 | 7588.6 | 7529.1 | 5156.9 | 2003.4 | 834.1  | 532.5  | 408.1  |
| 77.5° | 2512.0 | 2569.9 | 3155.1 | 4790.4 | 6165.0 | 6096.4 | 3496.6 | 960.8  | 450.6  | 370.8  | 293.7  |
| 80°   | 894.2  | 986.2  | 1386.3 | 2506.7 | 3952.5 | 3973.8 | 1668.8 | 440.4  | 317.1  | 273.4  | 207.5  |
| 82.5° | 364.9  | 375.0  | 595.3  | 1112.4 | 2007.1 | 2026.3 | 681.5  | 261.7  | 226.6  | 188.3  | 124.0  |
| 85°   | 142.5  | 146.8  | 263.3  | 500.1  | 856.5  | 912.3  | 235.6  | 138.3  | 139.4  | 108.0  | 63.3   |
| 87.5° | 47.9   | 54.2   | 108.0  | 166.5  | 291.0  | 285.1  | 68.6   | 41.0   | 50.0   | 46.8   | 19.7   |
| 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°    | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 | 1466.1 |
| 2.5°  | 1470.9 | 1481.0 | 1487.9 | 1495.4 | 1502.3 | 1504.4 | 1502.8 | 1507.6 | 1508.2 | 1508.7 | 1509.2 |
| 5°    | 1479.4 | 1493.3 | 1506.6 | 1514.0 | 1517.2 | 1514.6 | 1505.5 | 1500.7 | 1496.5 | 1493.3 | 1494.3 |
| 7.5°  | 1491.1 | 1510.8 | 1523.1 | 1526.2 | 1517.8 | 1505.5 | 1483.1 | 1465.6 | 1454.4 | 1446.9 | 1446.4 |
| 10°   | 1509.2 | 1528.3 | 1538.4 | 1529.4 | 1506.0 | 1476.2 | 1441.1 | 1408.2 | 1383.1 | 1375.7 | 1375.1 |
| 12.5° | 1532.0 | 1553.9 | 1553.3 | 1526.8 | 1485.8 | 1432.6 | 1375.7 | 1337.4 | 1303.3 | 1286.3 | 1293.2 |
| 15°   | 1561.9 | 1578.4 | 1562.9 | 1515.1 | 1450.1 | 1377.3 | 1307.1 | 1254.9 | 1216.6 | 1198.5 | 1199.6 |
| 17.5° | 1596.5 | 1610.9 | 1569.8 | 1494.3 | 1400.2 | 1306.5 | 1225.2 | 1175.6 | 1145.4 | 1132.1 | 1131.0 |
| 20°   | 1639.5 | 1643.8 | 1569.8 | 1458.1 | 1335.8 | 1224.1 | 1146.4 | 1111.8 | 1094.8 | 1087.9 | 1090.0 |
| 22.5° | 1685.8 | 1677.3 | 1561.3 | 1407.1 | 1251.2 | 1137.9 | 1085.7 | 1070.3 | 1061.8 | 1060.8 | 1061.8 |
| 25°   | 1737.9 | 1714.0 | 1543.8 | 1337.9 | 1162.9 | 1063.4 | 1033.1 | 1035.8 | 1037.4 | 1037.4 | 1041.1 |
| 27.5° | 1801.8 | 1753.9 | 1514.6 | 1250.7 | 1059.7 | 994.2  | 985.7  | 1004.4 | 1012.9 | 1014.5 | 1017.1 |
| 30°   | 1885.9 | 1797.6 | 1466.1 | 1141.6 | 971.9  | 932.0  | 946.9  | 971.9  | 981.5  | 987.3  | 986.2  |
| 32.5° | 1985.9 | 1845.4 | 1400.7 | 1032.6 | 901.1  | 888.4  | 906.5  | 932.0  | 942.7  | 945.9  | 941.6  |
| 35°   | 2103.4 | 1899.7 | 1314.5 | 930.4  | 839.5  | 846.9  | 868.2  | 876.2  | 885.7  | 885.7  | 887.8  |
| 37.5° | 2230.0 | 1943.3 | 1209.2 | 836.8  | 791.5  | 818.7  | 834.1  | 826.7  | 822.4  | 817.1  | 819.8  |
| 40°   | 2358.8 | 1975.8 | 1072.4 | 744.2  | 743.7  | 789.4  | 793.7  | 772.5  | 755.4  | 750.1  | 747.4  |
| 42.5° | 2471.0 | 1995.9 | 949.1  | 672.4  | 698.5  | 760.7  | 763.9  | 729.9  | 702.7  | 686.8  | 681.5  |
| 45°   | 2603.5 | 2019.4 | 828.3  | 612.8  | 656.5  | 737.8  | 745.8  | 700.0  | 660.2  | 626.6  | 618.1  |
| 47.5° | 2784.9 | 2072.6 | 733.1  | 566.6  | 626.1  | 723.5  | 734.6  | 675.6  | 622.9  | 579.3  | 572.4  |
| 50°   | 2989.7 | 2145.5 | 659.1  | 535.1  | 602.7  | 710.7  | 724.5  | 650.6  | 588.4  | 539.9  | 534.6  |
| 52.5° | 3177.5 | 2184.8 | 595.3  | 507.0  | 579.9  | 687.3  | 711.2  | 632.5  | 554.3  | 500.6  | 495.8  |
| 55°   | 3280.2 | 2121.0 | 532.5  | 479.3  | 548.5  | 657.0  | 692.6  | 607.5  | 521.3  | 479.9  | 472.9  |
| 57.5° | 3293.9 | 1989.0 | 475.6  | 449.5  | 515.4  | 619.7  | 658.1  | 577.2  | 500.1  | 465.5  | 459.6  |
| 60°   | 3187.1 | 1792.3 | 431.4  | 425.0  | 482.0  | 577.7  | 619.2  | 550.6  | 478.3  | 449.5  | 443.6  |
| 62.5° | 2921.0 | 1578.4 | 400.6  | 402.7  | 447.9  | 533.5  | 590.5  | 525.0  | 457.5  | 431.9  | 426.6  |
| 65°   | 2463.5 | 1302.8 | 370.8  | 379.8  | 417.6  | 499.0  | 564.4  | 503.8  | 436.7  | 418.6  | 413.9  |
| 67.5° | 1711.4 | 940.5  | 346.3  | 355.9  | 388.9  | 463.9  | 534.1  | 480.9  | 413.4  | 403.8  | 396.3  |
| 70°   | 947.5  | 578.8  | 317.6  | 328.7  | 359.1  | 424.5  | 500.1  | 446.3  | 379.3  | 375.0  | 364.4  |
| 72.5° | 498.0  | 368.7  | 285.1  | 297.4  | 318.7  | 374.0  | 447.9  | 408.6  | 345.8  | 327.7  | 313.9  |
| 74°   | 388.9  | 302.2  | 263.3  | 276.1  | 290.5  | 344.2  | 417.1  | 381.4  | 321.9  | 300.6  | 289.9  |
| 75°   | 338.8  | 269.2  | 244.7  | 261.2  | 274.0  | 324.0  | 393.2  | 362.3  | 308.6  | 288.3  | 278.8  |
| 77.5° | 239.3  | 201.6  | 200.0  | 219.7  | 226.6  | 284.1  | 354.3  | 329.8  | 275.0  | 253.7  | 244.7  |
| 80°   | 168.1  | 151.0  | 158.5  | 170.7  | 180.3  | 251.1  | 328.7  | 285.1  | 225.6  | 200.6  | 197.4  |
| 82.5° | 109.6  | 99.0   | 113.3  | 124.5  | 127.7  | 185.1  | 265.4  | 216.5  | 164.4  | 133.6  | 124.0  |
| 85°   | 50.5   | 49.5   | 64.9   | 63.3   | 62.7   | 90.4   | 157.4  | 126.6  | 94.7   | 70.7   | 66.5   |
| 87.5° | 12.8   | 12.2   | 16.0   | 13.3   | 16.0   | 13.8   | 14.4   | 3.7    | 0.5    | 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)