

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: P528527

Luminaire Tested: **GALN-SA3C-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-760-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13880 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 160  
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



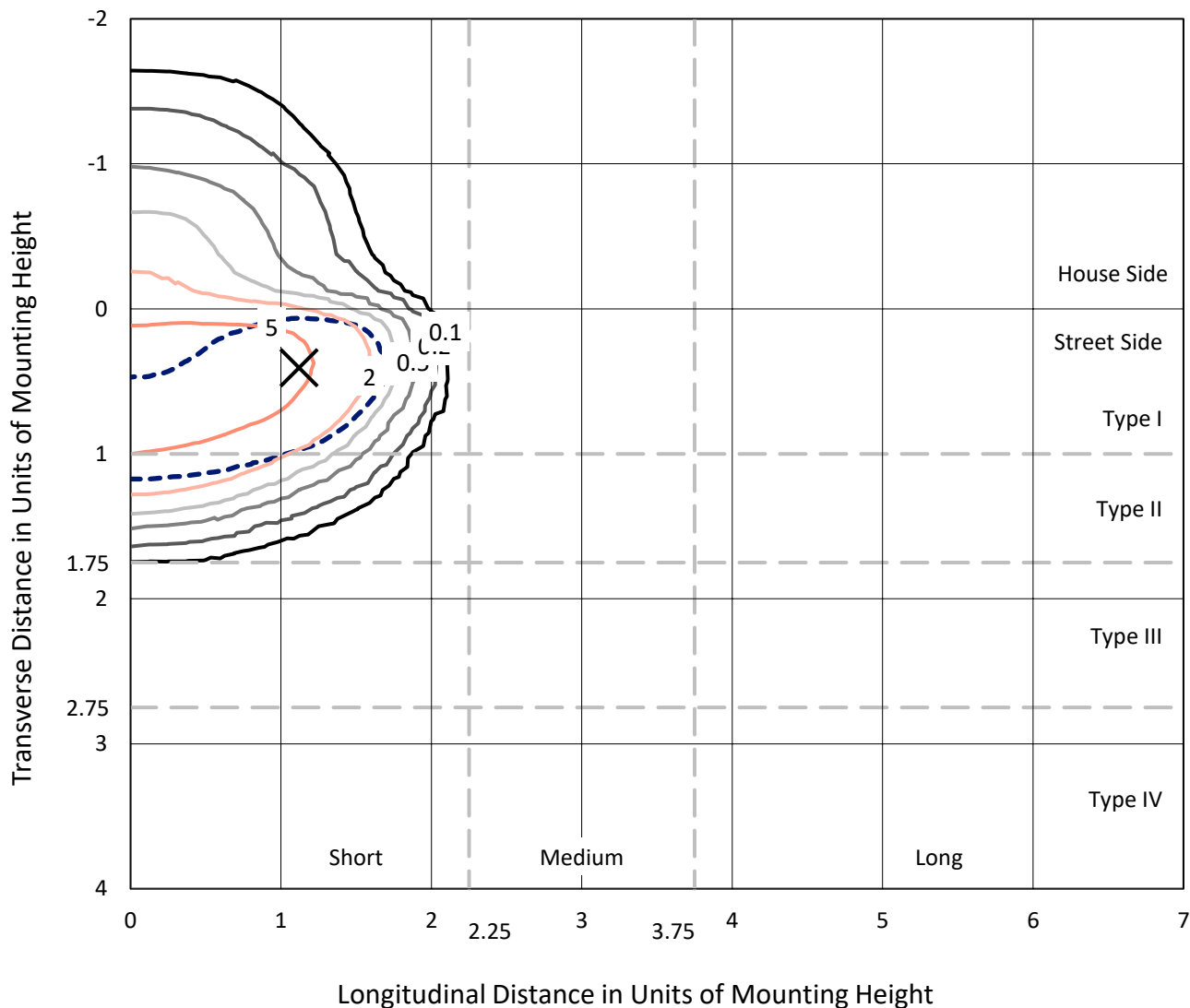
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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

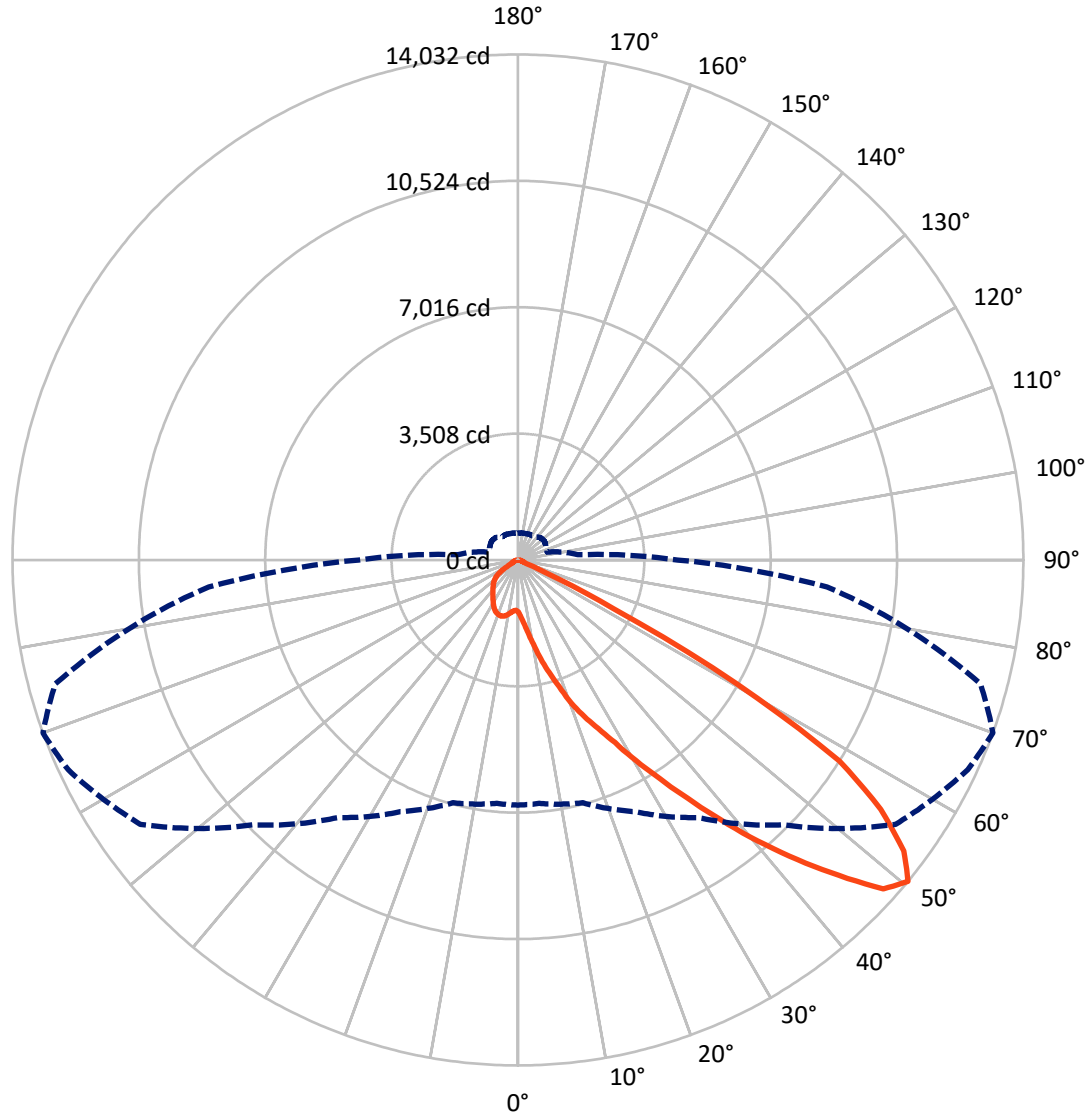
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1938.4   | 0.0    | 1938.4  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 11941.6  | 0.0    | 11941.6 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 13880.0  | 0.0    | 13880.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 187.0   | 1.3       |
| 10°-20°   | 808.7   | 5.8       |
| 20°-30°   | 1696.5  | 12.2      |
| 30°-40°   | 2924.2  | 21.1      |
| 40°-50°   | 4273.7  | 30.8      |
| 50°-60°   | 3328.5  | 24.0      |
| 60°-70°   | 563.9   | 4.1       |
| 70°-80°   | 77.5    | 0.6       |
| 80°-90°   | 20.1    | 0.1       |
| 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°    | 13880.0 | 100.0     |
| 0°-180°   | 13880.0 | 100.0     |

**Coefficient of Utilization**



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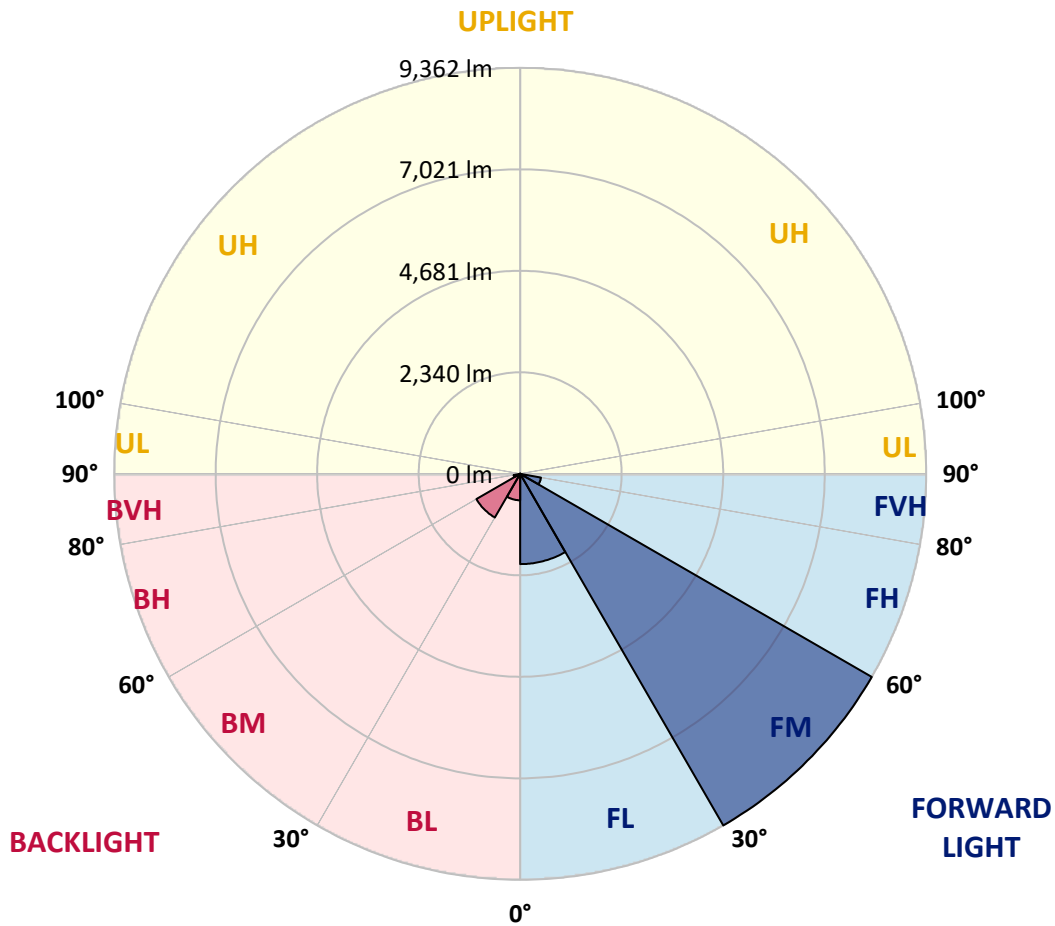
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 2082.2 | 15.0      |                         |      |        |
| FM (30°-60°)   | 9361.8 | 67.4      |                         |      |        |
| FH (60°-80°)   | 488.3  | 3.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 9.3    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 610.0  | 4.4       | B2/1000                 |      |        |
| BM (30°-60°)   | 1164.5 | 8.4       | B2/2500                 |      |        |
| BH (60°-80°)   | 153.1  | 1.1       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 10.8   | 0.1       |                         |      | 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 I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 70°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 1437.7 | 1437.7 | 1437.7 | 1437.7 | 1437.7 | 1437.7  | 1437.7  | 1437.7  | 1437.7  | 1437.7  | 1437.7 |
| 2.5°  | 1882.7 | 1869.0 | 1839.3 | 1784.6 | 1761.7 | 1707.0  | 1675.0  | 1613.4  | 1574.6  | 1531.3  | 1483.3 |
| 5°    | 2651.7 | 2581.0 | 2537.6 | 2476.0 | 2295.7 | 2183.9  | 1999.1  | 1841.6  | 1768.6  | 1688.7  | 1579.2 |
| 7.5°  | 3445.9 | 3400.3 | 3340.9 | 3208.6 | 3085.3 | 2852.6  | 2535.4  | 2188.5  | 2040.2  | 1903.2  | 1686.4 |
| 10°   | 4103.1 | 3975.3 | 3968.5 | 3870.4 | 3735.7 | 3457.3  | 3076.2  | 2644.9  | 2380.2  | 2179.4  | 1839.3 |
| 12.5° | 4561.8 | 4445.4 | 4497.9 | 4486.5 | 4361.0 | 4105.4  | 3665.0  | 3094.5  | 2818.3  | 2505.7  | 1996.8 |
| 15°   | 4979.4 | 4931.5 | 4915.5 | 4901.9 | 4851.6 | 4662.2  | 4267.4  | 3642.2  | 3242.8  | 2866.3  | 2174.8 |
| 17.5° | 5387.9 | 5264.7 | 5324.0 | 5335.4 | 5330.9 | 5159.7  | 4790.0  | 4162.5  | 3692.4  | 3247.4  | 2361.9 |
| 20°   | 5750.8 | 5762.2 | 5682.3 | 5666.3 | 5652.7 | 5645.8  | 5285.2  | 4678.2  | 4244.6  | 3646.7  | 2606.1 |
| 22.5° | 6216.3 | 6136.4 | 6207.2 | 6161.5 | 6072.5 | 6017.8  | 5741.7  | 5134.6  | 4723.9  | 4128.2  | 2854.9 |
| 25°   | 6766.3 | 6830.2 | 6663.6 | 6645.3 | 6547.2 | 6357.8  | 6109.1  | 5645.8  | 5184.8  | 4575.5  | 3124.1 |
| 27.5° | 7444.1 | 7332.2 | 7288.9 | 7188.5 | 7010.5 | 6930.6  | 6638.5  | 6173.0  | 5741.7  | 5045.6  | 3384.3 |
| 30°   | 8026.0 | 7996.3 | 7779.5 | 7660.9 | 7505.7 | 7503.4  | 7094.9  | 6887.2  | 6467.3  | 5782.7  | 3742.6 |
| 32.5° | 8500.7 | 8370.6 | 8290.7 | 8208.6 | 8083.0 | 8117.3  | 7772.7  | 7663.1  | 7241.0  | 6467.3  | 4164.8 |
| 35°   | 8817.9 | 8724.3 | 8676.4 | 8550.9 | 8514.3 | 8667.2  | 8523.5  | 8477.8  | 8131.0  | 7430.4  | 4660.0 |
| 37.5° | 8918.3 | 8947.9 | 8938.8 | 8781.3 | 8858.9 | 9272.0  | 9456.8  | 9338.2  | 9155.6  | 8445.9  | 5196.2 |
| 40°   | 9007.3 | 9027.8 | 8982.2 | 9167.0 | 9388.4 | 9858.5  | 10527.1 | 10330.9 | 10262.4 | 9475.1  | 5942.5 |
| 42.5° | 9057.5 | 9041.5 | 9041.5 | 9361.0 | 9696.5 | 10641.2 | 11560.9 | 11430.8 | 11378.3 | 10570.5 | 6805.1 |
| 45°   | 8840.7 | 8685.5 | 8852.1 | 9285.7 | 9961.2 | 11026.9 | 12387.0 | 12567.3 | 12492.0 | 11873.5 | 7813.8 |
| 47.5° | 8030.6 | 8126.4 | 8220.0 | 8799.6 | 9639.4 | 10908.2 | 12893.6 | 13507.5 | 13646.7 | 12968.9 | 8475.6 |
| 50°   | 6805.1 | 6784.5 | 6978.5 | 7708.8 | 8728.9 | 10397.0 | 12795.5 | 13779.0 | 14032.4 | 13297.5 | 8614.8 |
| 52.5° | 4949.8 | 5100.4 | 5310.3 | 6036.0 | 7245.5 | 9073.5  | 11528.9 | 13078.5 | 13416.2 | 12893.6 | 8523.5 |
| 55°   | 2882.2 | 2715.6 | 3188.0 | 3801.9 | 4942.9 | 6843.9  | 9746.7  | 11592.8 | 12218.1 | 12158.8 | 8062.5 |
| 57.5° | 1154.7 | 1118.2 | 1280.2 | 1725.2 | 2578.7 | 4242.3  | 7088.1  | 9525.3  | 10527.1 | 11136.4 | 7085.8 |
| 60°   | 506.6  | 495.2  | 581.9  | 702.9  | 1054.3 | 1955.7  | 3877.2  | 5924.2  | 6969.4  | 7781.8  | 4876.8 |
| 62.5° | 365.1  | 360.6  | 403.9  | 447.3  | 556.8  | 851.2   | 1629.4  | 2387.0  | 2975.8  | 3594.2  | 2183.9 |
| 65°   | 294.4  | 305.8  | 335.5  | 358.3  | 410.8  | 472.4   | 575.1   | 664.1   | 814.7   | 844.4   | 481.5  |
| 67.5° | 239.6  | 248.7  | 276.1  | 301.2  | 310.4  | 255.6   | 264.7   | 232.8   | 232.8   | 207.7   | 166.6  |
| 70°   | 175.7  | 178.0  | 209.9  | 239.6  | 191.7  | 102.7   | 180.3   | 180.3   | 162.0   | 155.2   | 141.5  |
| 72.5° | 130.1  | 132.4  | 157.5  | 148.3  | 75.3   | 63.9    | 132.4   | 146.1   | 132.4   | 125.5   | 114.1  |
| 75°   | 95.8   | 98.1   | 82.2   | 34.2   | 31.9   | 41.1    | 77.6    | 100.4   | 95.8    | 93.6    | 86.7   |
| 77.5° | 18.3   | 13.7   | 11.4   | 16.0   | 22.8   | 34.2    | 50.2    | 61.6    | 63.9    | 68.5    | 63.9   |
| 80°   | 2.3    | 2.3    | 6.8    | 13.7   | 25.1   | 36.5    | 52.5    | 59.3    | 61.6    | 63.9    | 59.3   |
| 82.5° | 0.0    | 2.3    | 6.8    | 13.7   | 25.1   | 34.2    | 45.6    | 52.5    | 57.1    | 59.3    | 57.1   |
| 85°   | 0.0    | 2.3    | 4.6    | 11.4   | 20.5   | 25.1    | 22.8    | 16.0    | 13.7    | 16.0    | 11.4   |
| 87.5° | 0.0    | 0.0    | 2.3    | 2.3    | 4.6    | 4.6     | 4.6     | 4.6     | 4.6     | 4.6     | 4.6    |
| 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°    | 1437.7 | 1437.7 | 1437.7 | 1437.7 | 1437.7 | 1437.7 | 1437.7 | 1437.7 | 1437.7 | 1437.7 | 1437.7 |
| 2.5°  | 1456.0 | 1446.8 | 1414.9 | 1380.6 | 1351.0 | 1364.7 | 1351.0 | 1339.6 | 1344.1 | 1339.6 | 1335.0 |
| 5°    | 1535.8 | 1494.7 | 1426.3 | 1396.6 | 1371.5 | 1369.2 | 1362.4 | 1360.1 | 1362.4 | 1362.4 | 1341.8 |
| 7.5°  | 1611.1 | 1545.0 | 1471.9 | 1440.0 | 1410.3 | 1412.6 | 1396.6 | 1396.6 | 1394.3 | 1382.9 | 1378.4 |
| 10°   | 1725.2 | 1636.2 | 1542.7 | 1485.6 | 1449.1 | 1442.3 | 1426.3 | 1410.3 | 1410.3 | 1410.3 | 1387.5 |
| 12.5° | 1850.7 | 1738.9 | 1611.1 | 1545.0 | 1501.6 | 1467.4 | 1442.3 | 1437.7 | 1412.6 | 1408.0 | 1396.6 |
| 15°   | 1960.3 | 1818.8 | 1656.8 | 1565.5 | 1510.7 | 1465.1 | 1426.3 | 1401.2 | 1389.8 | 1382.9 | 1373.8 |
| 17.5° | 2067.5 | 1887.3 | 1681.9 | 1565.5 | 1506.2 | 1453.7 | 1412.6 | 1389.8 | 1362.4 | 1367.0 | 1348.7 |
| 20°   | 2211.3 | 1960.3 | 1688.7 | 1535.8 | 1462.8 | 1412.6 | 1357.8 | 1346.4 | 1330.4 | 1316.7 | 1321.3 |
| 22.5° | 2350.5 | 2012.8 | 1668.2 | 1499.3 | 1394.3 | 1335.0 | 1307.6 | 1293.9 | 1287.1 | 1275.7 | 1259.7 |
| 25°   | 2476.0 | 2069.8 | 1636.2 | 1433.1 | 1321.3 | 1278.0 | 1252.8 | 1250.6 | 1234.6 | 1234.6 | 1204.9 |
| 27.5° | 2603.8 | 2090.4 | 1581.5 | 1355.5 | 1257.4 | 1232.3 | 1220.9 | 1216.3 | 1209.5 | 1193.5 | 1173.0 |
| 30°   | 2749.9 | 2097.2 | 1501.6 | 1275.7 | 1200.4 | 1173.0 | 1189.0 | 1200.4 | 1170.7 | 1141.0 | 1150.2 |
| 32.5° | 2870.8 | 2081.2 | 1405.7 | 1200.4 | 1159.3 | 1145.6 | 1177.5 | 1189.0 | 1154.7 | 1122.8 | 1106.8 |
| 35°   | 3016.9 | 2042.4 | 1312.2 | 1141.0 | 1118.2 | 1145.6 | 1173.0 | 1173.0 | 1104.5 | 1065.7 | 1056.6 |
| 37.5° | 3238.2 | 1999.1 | 1225.5 | 1090.8 | 1074.8 | 1131.9 | 1168.4 | 1143.3 | 1036.1 | 988.1  | 976.7  |
| 40°   | 3475.6 | 1971.7 | 1141.0 | 1040.6 | 1052.0 | 1109.1 | 1129.6 | 1052.0 | 942.5  | 912.8  | 903.7  |
| 42.5° | 3820.2 | 1916.9 | 1065.7 | 997.3  | 1031.5 | 1077.1 | 1077.1 | 937.9  | 896.8  | 880.9  | 878.6  |
| 45°   | 4249.2 | 1878.1 | 999.5  | 960.7  | 1001.8 | 1013.2 | 976.7  | 878.6  | 848.9  | 844.4  | 846.6  |
| 47.5° | 4459.1 | 1802.8 | 931.1  | 917.4  | 947.1  | 949.3  | 853.5  | 830.7  | 805.6  | 798.7  | 794.2  |
| 50°   | 4427.2 | 1668.2 | 842.1  | 860.3  | 901.4  | 878.6  | 778.2  | 782.7  | 759.9  | 757.6  | 746.2  |
| 52.5° | 4203.5 | 1456.0 | 753.1  | 796.4  | 842.1  | 775.9  | 716.6  | 712.0  | 712.0  | 682.3  | 670.9  |
| 55°   | 3726.6 | 1173.0 | 645.8  | 700.6  | 755.4  | 652.7  | 636.7  | 632.1  | 620.7  | 593.3  | 586.5  |
| 57.5° | 2950.7 | 860.3  | 486.1  | 545.4  | 641.3  | 554.5  | 552.3  | 531.7  | 502.1  | 481.5  | 481.5  |
| 60°   | 1754.9 | 495.2  | 305.8  | 333.2  | 424.5  | 449.6  | 499.8  | 490.6  | 440.4  | 408.5  | 399.4  |
| 62.5° | 801.0  | 255.6  | 194.0  | 198.5  | 228.2  | 292.1  | 392.5  | 454.1  | 383.4  | 328.6  | 324.1  |
| 65°   | 269.3  | 189.4  | 159.7  | 152.9  | 157.5  | 175.7  | 235.1  | 321.8  | 305.8  | 253.3  | 244.2  |
| 67.5° | 164.3  | 168.9  | 150.6  | 139.2  | 139.2  | 136.9  | 134.6  | 146.1  | 180.3  | 175.7  | 178.0  |
| 70°   | 141.5  | 155.2  | 139.2  | 125.5  | 120.9  | 114.1  | 95.8   | 79.9   | 68.5   | 79.9   | 84.4   |
| 72.5° | 114.1  | 123.2  | 118.7  | 107.3  | 95.8   | 86.7   | 68.5   | 52.5   | 38.8   | 34.2   | 34.2   |
| 75°   | 84.4   | 91.3   | 95.8   | 82.2   | 73.0   | 61.6   | 50.2   | 34.2   | 20.5   | 13.7   | 13.7   |
| 77.5° | 61.6   | 68.5   | 70.7   | 63.9   | 54.8   | 43.4   | 31.9   | 22.8   | 11.4   | 4.6    | 4.6    |
| 80°   | 52.5   | 61.6   | 68.5   | 63.9   | 57.1   | 41.1   | 29.7   | 16.0   | 9.1    | 2.3    | 2.3    |
| 82.5° | 50.2   | 61.6   | 68.5   | 61.6   | 54.8   | 38.8   | 29.7   | 18.3   | 6.8    | 2.3    | 2.3    |
| 85°   | 11.4   | 16.0   | 20.5   | 25.1   | 29.7   | 29.7   | 22.8   | 13.7   | 6.8    | 2.3    | 2.3    |
| 87.5° | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 2.3    | 2.3    | 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)