

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: P270024

Luminaire Tested: **GPC-AF-02-LED-E1-RW-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-02-LED-E1-RW-7027-1200  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12102.6 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 129  
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: 25 FT

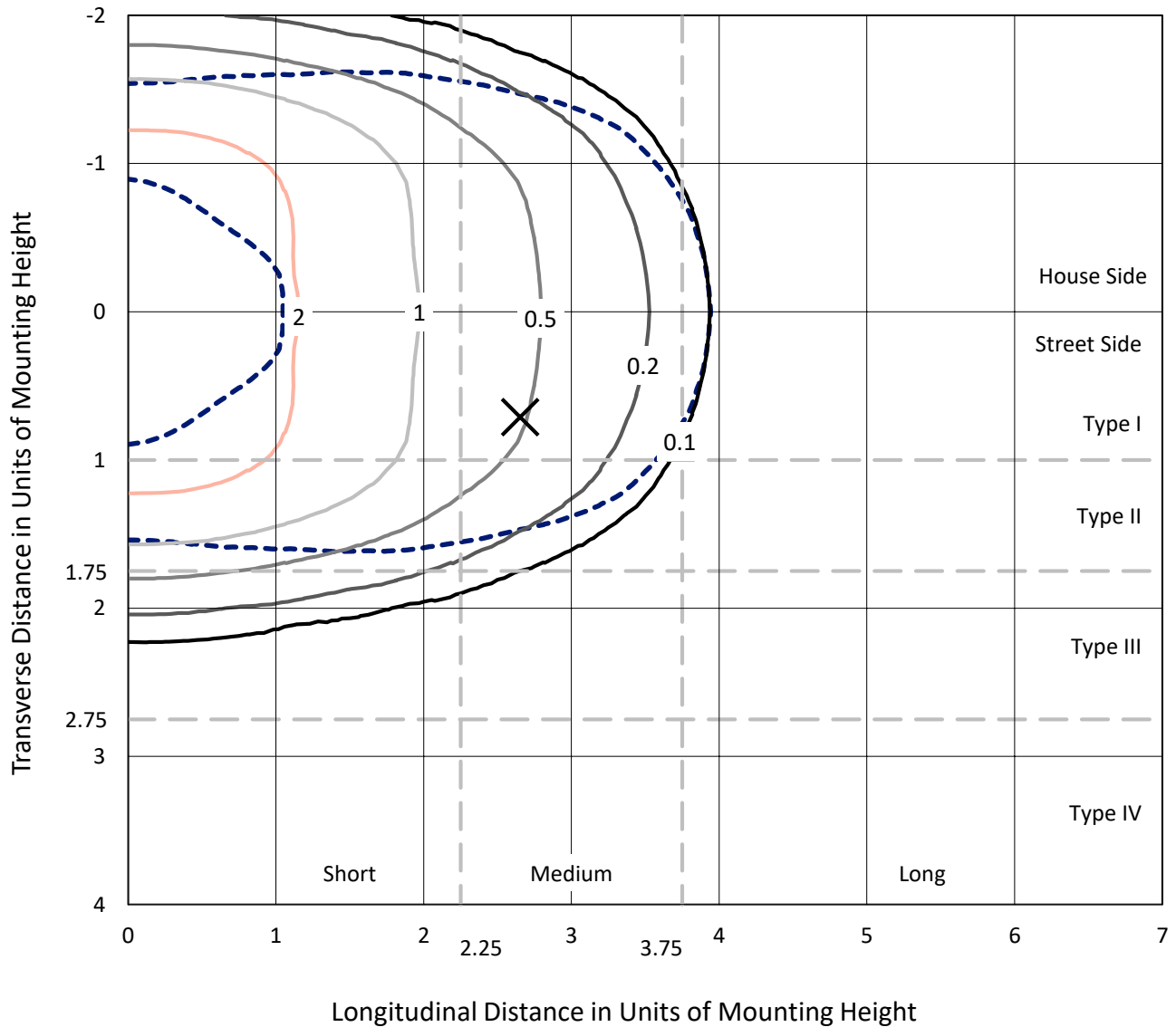


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

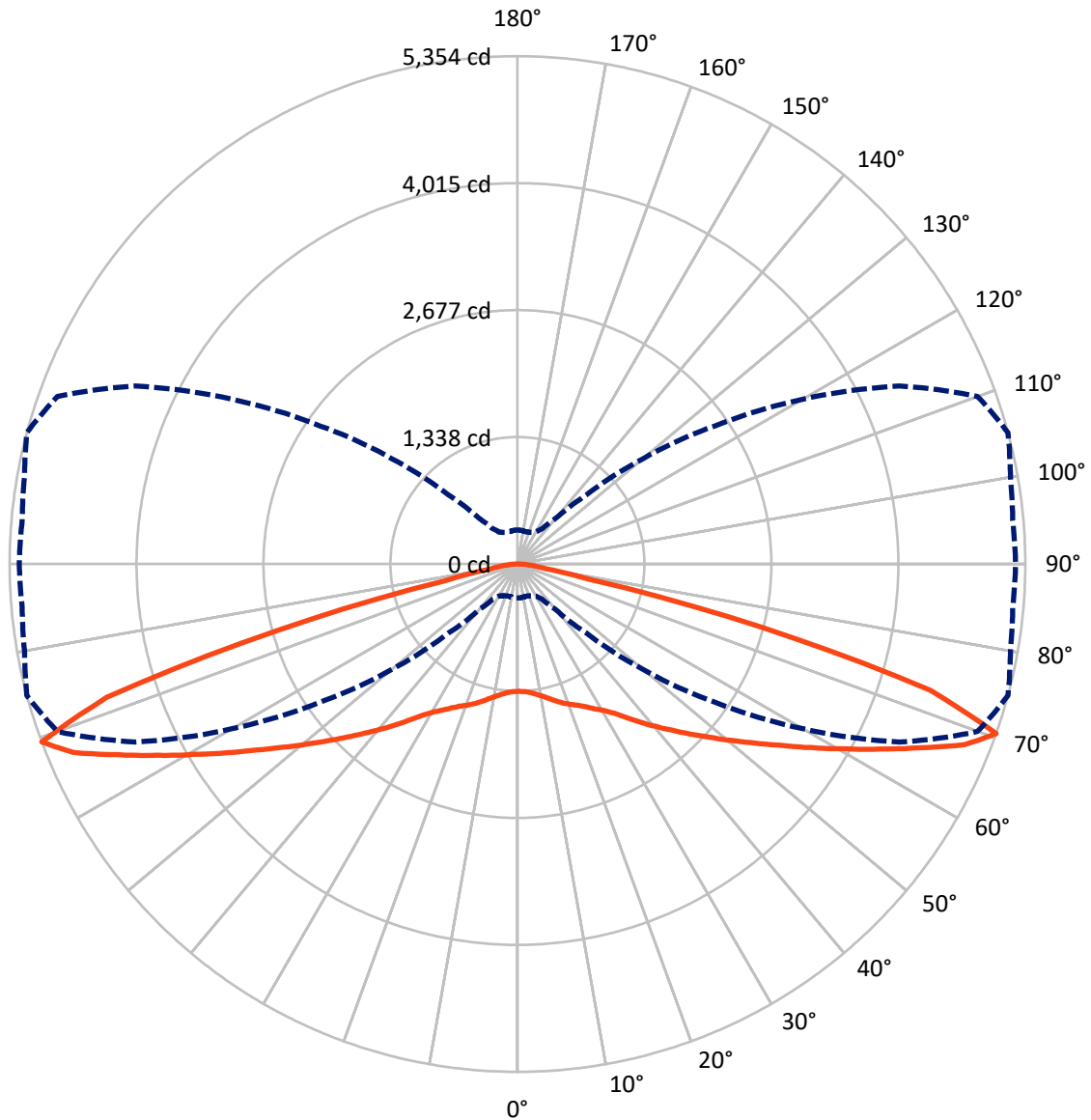


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6051.3   | 0.0    | 6051.3  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6051.3   | 0.0    | 6051.3  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12102.6  | 0.0    | 12102.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 128.8   | 1.1       |
| 10°-20°   | 400.1   | 3.3       |
| 20°-30°   | 753.0   | 6.2       |
| 30°-40°   | 1333.4  | 11.0      |
| 40°-50°   | 2229.8  | 18.4      |
| 50°-60°   | 3107.2  | 25.7      |
| 60°-70°   | 2881.5  | 23.8      |
| 70°-80°   | 1148.4  | 9.5       |
| 80°-90°   | 120.7   | 1.0       |
| 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°    | 12102.6 | 100.0     |
| 0°-180°   | 12102.6 | 100.0     |



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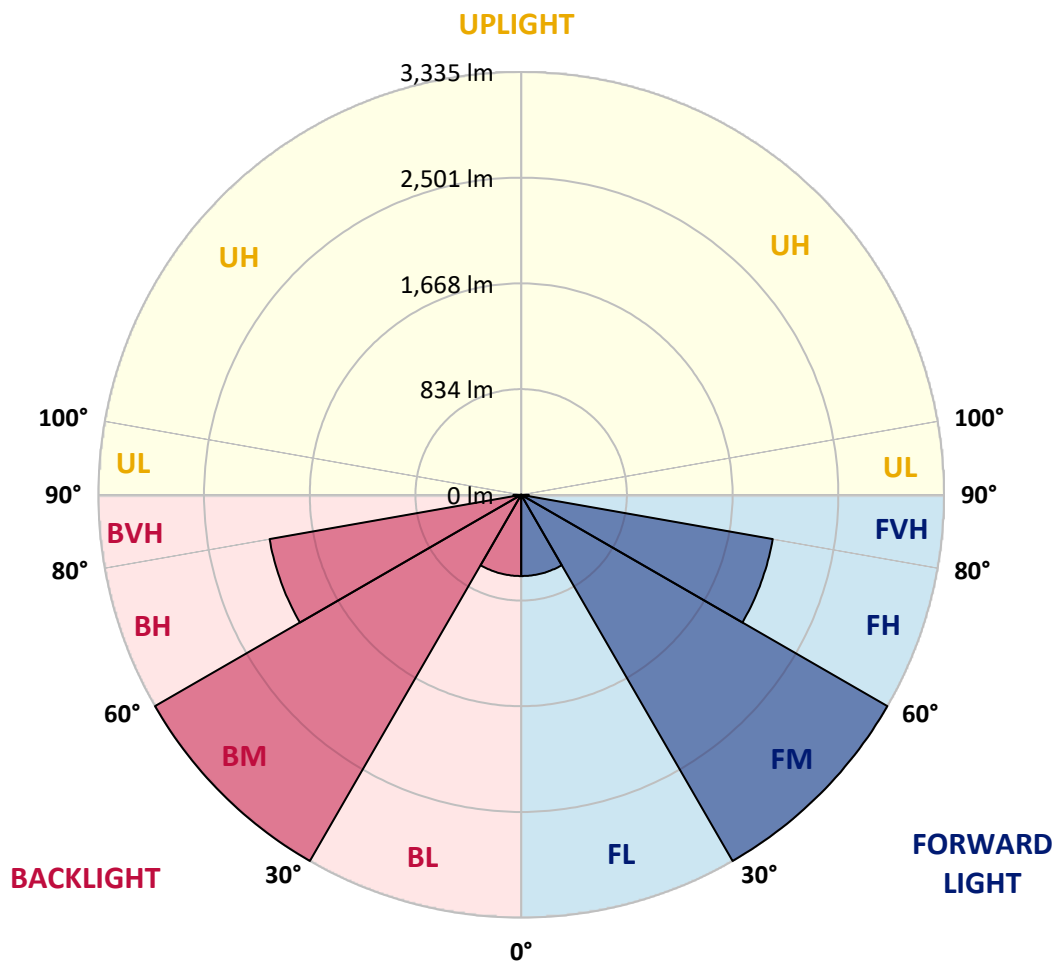
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 640.9  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 3335.2 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 2014.9 | 16.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 60.4   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 640.9  | 5.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3335.2 | 27.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2014.9 | 16.6      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 60.4   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 |
| 2.5°  | 1340.2 | 1339.1 | 1340.2 | 1339.6 | 1340.7 | 1340.7 | 1341.9 | 1344.1 | 1344.1 | 1345.9 | 1345.3 |
| 5°    | 1327.1 | 1326.4 | 1328.1 | 1329.9 | 1331.6 | 1335.1 | 1338.5 | 1343.7 | 1347.5 | 1350.5 | 1353.3 |
| 7.5°  | 1301.3 | 1301.3 | 1303.6 | 1307.6 | 1311.5 | 1319.0 | 1327.1 | 1337.3 | 1347.5 | 1356.3 | 1363.6 |
| 10°   | 1280.2 | 1281.3 | 1284.1 | 1291.0 | 1297.8 | 1309.3 | 1320.1 | 1335.1 | 1349.3 | 1363.6 | 1375.0 |
| 12.5° | 1267.6 | 1269.2 | 1274.3 | 1284.7 | 1296.2 | 1311.5 | 1328.1 | 1347.1 | 1363.1 | 1380.2 | 1391.7 |
| 15°   | 1271.6 | 1272.7 | 1280.2 | 1292.8 | 1307.6 | 1327.1 | 1349.3 | 1371.6 | 1390.4 | 1408.8 | 1424.3 |
| 17.5° | 1293.9 | 1295.5 | 1304.1 | 1318.4 | 1334.0 | 1356.8 | 1380.8 | 1405.9 | 1429.5 | 1450.0 | 1468.9 |
| 20°   | 1334.0 | 1335.6 | 1346.5 | 1361.9 | 1380.2 | 1403.7 | 1427.6 | 1453.9 | 1480.2 | 1502.1 | 1523.3 |
| 22.5° | 1390.4 | 1393.5 | 1403.7 | 1419.1 | 1439.8 | 1464.9 | 1493.5 | 1521.5 | 1546.6 | 1566.6 | 1585.6 |
| 25°   | 1464.9 | 1471.2 | 1480.9 | 1498.1 | 1519.8 | 1542.7 | 1573.6 | 1602.1 | 1626.2 | 1645.1 | 1658.8 |
| 27.5° | 1570.1 | 1578.7 | 1586.1 | 1602.8 | 1623.9 | 1645.7 | 1676.4 | 1701.7 | 1724.6 | 1742.8 | 1753.1 |
| 30°   | 1709.7 | 1718.3 | 1725.7 | 1741.8 | 1761.1 | 1781.8 | 1811.0 | 1833.3 | 1847.5 | 1861.8 | 1861.3 |
| 32.5° | 1879.0 | 1888.1 | 1891.0 | 1908.2 | 1928.2 | 1950.5 | 1976.8 | 1989.3 | 2000.9 | 2002.5 | 1992.3 |
| 35°   | 2068.3 | 2072.8 | 2084.3 | 2107.2 | 2130.2 | 2148.3 | 2173.5 | 2179.8 | 2179.8 | 2171.4 | 2148.3 |
| 37.5° | 2275.9 | 2278.8 | 2294.8 | 2320.6 | 2344.0 | 2362.9 | 2380.1 | 2392.6 | 2386.3 | 2368.0 | 2329.8 |
| 40°   | 2503.5 | 2508.7 | 2531.7 | 2554.5 | 2580.8 | 2598.5 | 2616.9 | 2619.2 | 2612.9 | 2586.0 | 2533.8 |
| 42.5° | 2721.0 | 2725.5 | 2748.5 | 2784.4 | 2818.8 | 2843.3 | 2860.6 | 2863.9 | 2843.9 | 2819.3 | 2754.7 |
| 45°   | 2908.1 | 2920.0 | 2949.8 | 2992.1 | 3041.8 | 3076.8 | 3100.2 | 3109.9 | 3092.1 | 3060.2 | 2985.2 |
| 47.5° | 3056.2 | 3068.3 | 3110.6 | 3160.9 | 3222.6 | 3279.3 | 3318.1 | 3338.7 | 3334.1 | 3310.2 | 3228.2 |
| 50°   | 3164.8 | 3176.2 | 3222.0 | 3283.8 | 3355.9 | 3426.2 | 3492.6 | 3541.7 | 3558.9 | 3548.0 | 3473.1 |
| 52.5° | 3177.5 | 3196.3 | 3250.1 | 3333.0 | 3426.9 | 3523.0 | 3617.2 | 3700.7 | 3757.4 | 3766.1 | 3710.4 |
| 55°   | 3001.9 | 3020.7 | 3095.0 | 3218.0 | 3357.5 | 3514.3 | 3665.4 | 3805.9 | 3917.6 | 3974.8 | 3945.5 |
| 57.5° | 2587.7 | 2621.4 | 2699.8 | 2843.9 | 3049.2 | 3283.8 | 3524.6 | 3774.6 | 4001.7 | 4153.3 | 4182.4 |
| 60°   | 1983.1 | 2023.2 | 2102.0 | 2255.4 | 2484.2 | 2763.8 | 3085.3 | 3454.8 | 3855.9 | 4196.7 | 4400.3 |
| 62.5° | 1272.1 | 1309.9 | 1392.8 | 1526.1 | 1712.6 | 2015.6 | 2360.7 | 2799.3 | 3338.1 | 3876.4 | 4361.5 |
| 65°   | 653.7  | 674.4  | 717.8  | 798.6  | 943.8  | 1170.3 | 1479.8 | 1917.3 | 2533.4 | 3197.4 | 3898.7 |
| 67.5° | 414.1  | 418.2  | 427.9  | 439.4  | 476.6  | 554.9  | 699.1  | 971.8  | 1478.6 | 2171.4 | 2992.1 |
| 70°   | 358.1  | 358.1  | 353.6  | 351.7  | 356.4  | 367.1  | 389.5  | 453.0  | 624.1  | 1030.7 | 1725.7 |
| 72.5° | 327.7  | 324.3  | 316.4  | 310.1  | 308.8  | 308.8  | 313.5  | 323.2  | 350.6  | 419.9  | 675.5  |
| 75°   | 302.0  | 292.3  | 281.3  | 274.1  | 271.1  | 268.2  | 267.6  | 269.4  | 275.2  | 286.0  | 322.6  |
| 77.5° | 270.6  | 258.0  | 245.3  | 238.0  | 234.5  | 230.5  | 227.1  | 223.0  | 220.3  | 223.7  | 239.7  |
| 80°   | 232.8  | 218.5  | 208.8  | 204.3  | 200.9  | 195.0  | 187.7  | 180.7  | 174.5  | 173.4  | 183.1  |
| 82.5° | 187.7  | 171.0  | 171.5  | 173.4  | 167.1  | 159.0  | 151.1  | 143.5  | 132.7  | 127.0  | 132.7  |
| 85°   | 151.5  | 143.0  | 139.0  | 149.8  | 140.8  | 128.6  | 116.2  | 102.9  | 85.8   | 72.0   | 78.3   |
| 87.5° | 58.8   | 58.8   | 88.0   | 135.6  | 121.8  | 99.5   | 85.2   | 72.7   | 45.2   | 34.9   | 35.5   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 |
| 2.5°  | 1344.8 | 1345.9 | 1345.3 | 1344.8 | 1344.8 | 1344.1 | 1344.8 | 1344.8 |
| 5°    | 1355.1 | 1357.9 | 1357.9 | 1359.0 | 1359.0 | 1359.7 | 1360.3 | 1359.7 |
| 7.5°  | 1370.5 | 1375.7 | 1379.1 | 1383.1 | 1383.7 | 1384.2 | 1385.4 | 1384.2 |
| 10°   | 1385.9 | 1396.2 | 1403.7 | 1411.1 | 1414.6 | 1415.6 | 1416.8 | 1416.8 |
| 12.5° | 1405.4 | 1419.7 | 1432.8 | 1446.0 | 1452.3 | 1455.8 | 1455.8 | 1457.9 |
| 15°   | 1437.4 | 1451.8 | 1467.1 | 1484.9 | 1495.8 | 1501.4 | 1503.3 | 1503.3 |
| 17.5° | 1482.7 | 1495.1 | 1508.3 | 1525.5 | 1539.2 | 1546.6 | 1548.4 | 1547.8 |
| 20°   | 1535.3 | 1547.2 | 1554.6 | 1565.6 | 1577.6 | 1586.1 | 1588.5 | 1588.5 |
| 22.5° | 1595.3 | 1602.1 | 1603.2 | 1606.7 | 1616.4 | 1627.9 | 1632.9 | 1634.1 |
| 25°   | 1661.7 | 1663.3 | 1658.8 | 1658.8 | 1665.1 | 1676.0 | 1681.1 | 1681.6 |
| 27.5° | 1747.5 | 1738.8 | 1727.4 | 1723.4 | 1727.4 | 1739.9 | 1746.2 | 1748.6 |
| 30°   | 1854.5 | 1833.8 | 1807.5 | 1793.1 | 1791.0 | 1807.5 | 1819.0 | 1820.7 |
| 32.5° | 1976.8 | 1947.0 | 1912.1 | 1882.9 | 1875.7 | 1885.8 | 1899.6 | 1898.9 |
| 35°   | 2122.1 | 2086.7 | 2044.4 | 2007.2 | 1989.9 | 2000.3 | 2019.7 | 2021.9 |
| 37.5° | 2289.7 | 2243.3 | 2194.6 | 2147.8 | 2121.0 | 2123.9 | 2144.4 | 2151.4 |
| 40°   | 2476.7 | 2416.7 | 2355.4 | 2292.6 | 2254.2 | 2246.8 | 2272.0 | 2275.9 |
| 42.5° | 2676.9 | 2599.8 | 2522.5 | 2444.6 | 2395.5 | 2384.0 | 2413.2 | 2411.5 |
| 45°   | 2890.2 | 2791.9 | 2701.6 | 2615.8 | 2557.4 | 2540.1 | 2564.2 | 2564.2 |
| 47.5° | 3119.6 | 2998.5 | 2890.8 | 2793.5 | 2730.0 | 2705.5 | 2728.4 | 2730.0 |
| 50°   | 3362.7 | 3234.1 | 3107.6 | 2999.5 | 2923.4 | 2892.1 | 2921.7 | 2926.3 |
| 52.5° | 3604.7 | 3479.4 | 3351.8 | 3228.2 | 3136.3 | 3098.0 | 3132.2 | 3147.1 |
| 55°   | 3850.0 | 3727.1 | 3605.3 | 3484.5 | 3375.3 | 3330.1 | 3366.8 | 3385.6 |
| 57.5° | 4109.1 | 3995.3 | 3879.2 | 3757.4 | 3652.1 | 3581.8 | 3620.7 | 3646.0 |
| 60°   | 4413.0 | 4315.6 | 4194.9 | 4060.6 | 3954.2 | 3882.7 | 3905.0 | 3927.3 |
| 62.5° | 4653.2 | 4690.9 | 4588.5 | 4433.0 | 4296.2 | 4204.6 | 4226.4 | 4249.9 |
| 65°   | 4537.0 | 4924.2 | 5015.2 | 4857.9 | 4668.6 | 4526.2 | 4516.9 | 4529.1 |
| 67.5° | 3792.4 | 4544.4 | 5093.0 | 5242.9 | 5084.4 | 4886.5 | 4849.9 | 4867.6 |
| 70°   | 2536.8 | 3473.7 | 4441.5 | 5162.2 | 5353.9 | 5277.3 | 5241.3 | 5252.0 |
| 72.5° | 1218.3 | 2023.2 | 3013.3 | 3971.3 | 4554.8 | 4822.6 | 4908.2 | 4950.0 |
| 75°   | 445.6  | 803.1  | 1452.3 | 2188.5 | 2642.1 | 3058.4 | 3330.1 | 3441.0 |
| 77.5° | 268.9  | 324.3  | 463.9  | 698.4  | 791.0  | 885.5  | 848.9  | 867.1  |
| 80°   | 199.1  | 224.8  | 254.5  | 286.0  | 296.4  | 296.4  | 284.9  | 275.7  |
| 82.5° | 139.5  | 156.1  | 170.5  | 187.7  | 192.1  | 183.7  | 151.1  | 120.2  |
| 85°   | 89.8   | 97.2   | 103.6  | 114.4  | 111.5  | 106.4  | 71.4   | 63.5   |
| 87.5° | 41.2   | 46.9   | 49.1   | 54.3   | 52.0   | 49.8   | 35.5   | 29.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)