

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: P199912

Luminaire Tested: **GPC-AF-02-LED-E1-5NQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
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-E1-5NQ-7030  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12393.3 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

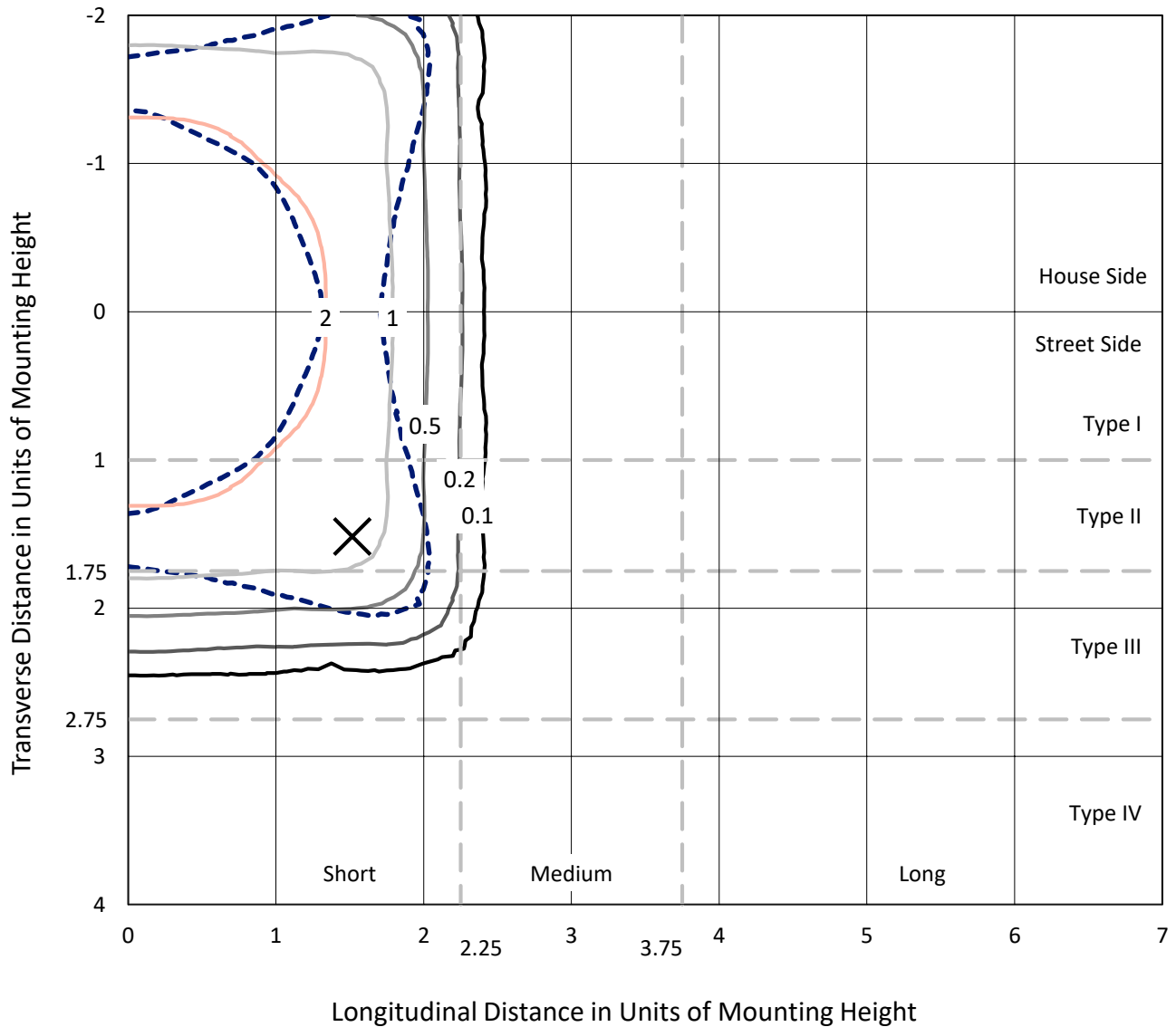
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

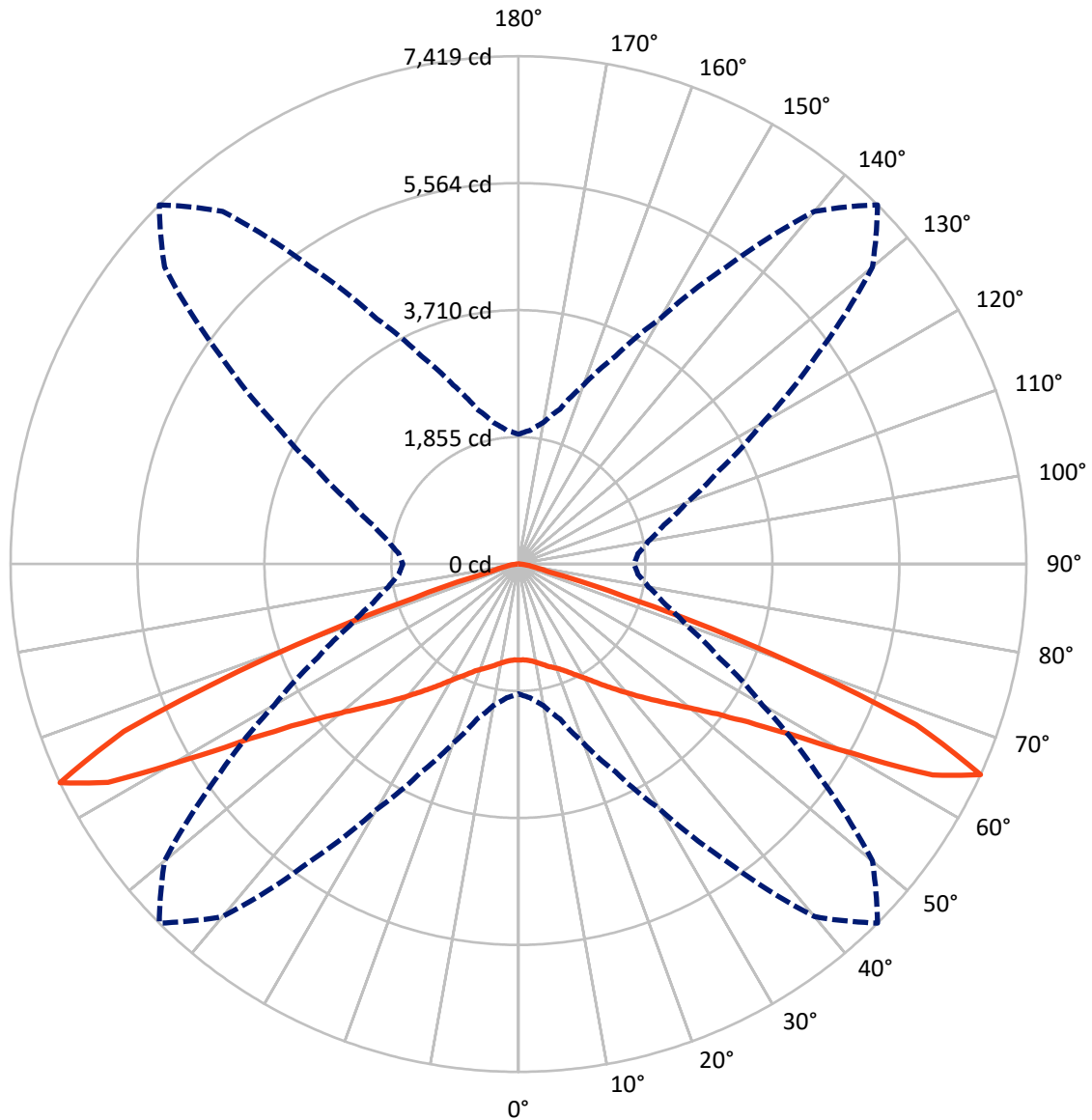
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6196.7   | 0.0    | 6196.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6196.7   | 0.0    | 6196.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12393.3  | 0.0    | 12393.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 136.7   | 1.1       |
| 10°-20°   | 438.4   | 3.5       |
| 20°-30°   | 819.6   | 6.6       |
| 30°-40°   | 1386.3  | 11.2      |
| 40°-50°   | 2266.7  | 18.3      |
| 50°-60°   | 3604.4  | 29.1      |
| 60°-70°   | 3258.1  | 26.3      |
| 70°-80°   | 412.3   | 3.3       |
| 80°-90°   | 70.9    | 0.6       |
| 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°    | 12393.3 | 100.0     |
| 0°-180°   | 12393.3 | 100.0     |



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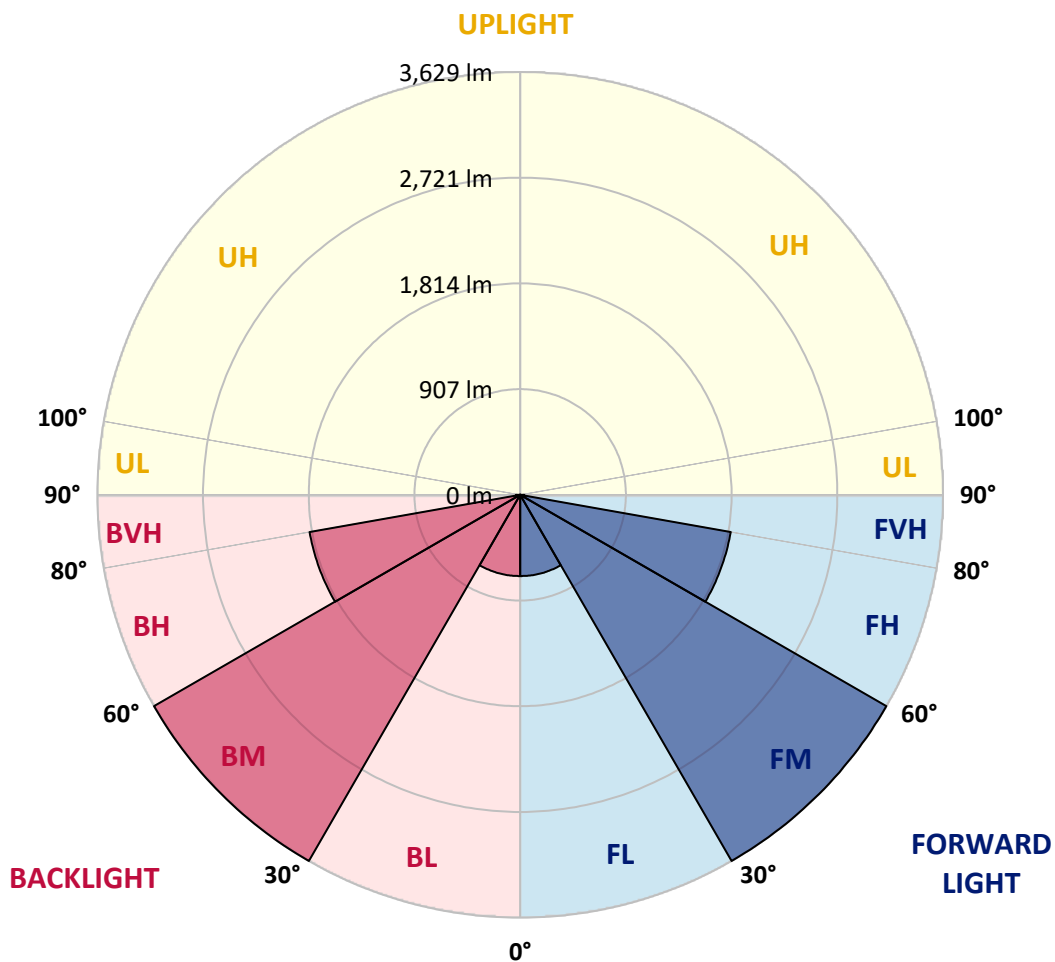
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 697.3  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 3628.6 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 1835.2 | 14.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 35.5   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 697.3  | 5.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3628.6 | 29.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1835.2 | 14.8      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 35.5   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1402.4 | 1402.4 | 1402.4 | 1402.4 | 1402.4 | 1402.4 | 1402.4 | 1402.4 | 1402.4 | 1402.4 | 1402.4 |
| 2.5°  | 1403.4 | 1404.6 | 1405.8 | 1404.6 | 1405.8 | 1404.1 | 1402.9 | 1404.6 | 1402.9 | 1401.1 | 1402.4 |
| 5°    | 1415.7 | 1416.2 | 1416.2 | 1414.5 | 1416.2 | 1415.1 | 1413.4 | 1415.7 | 1414.0 | 1412.1 | 1413.4 |
| 7.5°  | 1436.0 | 1438.3 | 1436.5 | 1434.8 | 1436.0 | 1434.8 | 1433.7 | 1434.2 | 1433.7 | 1432.0 | 1432.5 |
| 10°   | 1463.2 | 1464.9 | 1463.8 | 1463.2 | 1464.4 | 1463.8 | 1462.7 | 1462.1 | 1462.7 | 1460.9 | 1460.9 |
| 12.5° | 1496.3 | 1495.8 | 1495.2 | 1495.8 | 1497.5 | 1497.5 | 1497.0 | 1497.5 | 1498.7 | 1499.2 | 1498.1 |
| 15°   | 1528.9 | 1529.9 | 1529.9 | 1529.9 | 1533.5 | 1536.4 | 1538.2 | 1539.3 | 1541.6 | 1542.2 | 1539.9 |
| 17.5° | 1569.5 | 1569.5 | 1568.9 | 1569.5 | 1572.9 | 1577.6 | 1579.4 | 1581.6 | 1583.9 | 1585.7 | 1582.8 |
| 20°   | 1614.8 | 1616.0 | 1616.0 | 1617.0 | 1621.7 | 1627.0 | 1627.0 | 1628.1 | 1627.0 | 1628.1 | 1626.4 |
| 22.5° | 1669.9 | 1673.5 | 1673.5 | 1674.0 | 1678.5 | 1685.0 | 1683.2 | 1685.0 | 1682.0 | 1684.3 | 1682.0 |
| 25°   | 1741.8 | 1747.0 | 1746.0 | 1746.0 | 1749.4 | 1753.5 | 1754.0 | 1757.6 | 1757.0 | 1759.8 | 1758.1 |
| 27.5° | 1823.1 | 1831.3 | 1833.6 | 1833.0 | 1835.3 | 1839.4 | 1840.5 | 1844.7 | 1842.2 | 1844.7 | 1843.4 |
| 30°   | 1920.7 | 1924.0 | 1928.8 | 1930.5 | 1933.4 | 1937.5 | 1937.5 | 1938.0 | 1935.1 | 1938.6 | 1940.3 |
| 32.5° | 2021.7 | 2028.0 | 2032.7 | 2043.1 | 2048.3 | 2051.3 | 2050.7 | 2051.8 | 2048.9 | 2053.5 | 2057.1 |
| 35°   | 2155.1 | 2159.7 | 2167.2 | 2175.5 | 2182.4 | 2181.8 | 2180.0 | 2180.7 | 2180.7 | 2184.7 | 2188.3 |
| 37.5° | 2315.9 | 2317.1 | 2326.9 | 2338.5 | 2342.0 | 2338.5 | 2328.1 | 2325.8 | 2320.5 | 2325.8 | 2331.6 |
| 40°   | 2485.9 | 2490.0 | 2509.8 | 2517.4 | 2519.1 | 2512.6 | 2497.5 | 2488.8 | 2477.2 | 2483.7 | 2491.7 |
| 42.5° | 2664.2 | 2672.3 | 2690.3 | 2703.6 | 2709.4 | 2705.4 | 2684.5 | 2671.1 | 2656.0 | 2659.5 | 2667.7 |
| 45°   | 2861.5 | 2871.4 | 2896.9 | 2909.7 | 2920.7 | 2914.3 | 2894.0 | 2873.7 | 2849.9 | 2851.6 | 2864.4 |
| 47.5° | 3082.1 | 3091.9 | 3125.1 | 3146.4 | 3152.2 | 3151.1 | 3128.5 | 3100.7 | 3068.1 | 3067.0 | 3078.0 |
| 50°   | 3329.3 | 3339.2 | 3380.4 | 3413.5 | 3430.3 | 3428.5 | 3401.9 | 3362.5 | 3322.9 | 3323.5 | 3337.5 |
| 52.5° | 3570.8 | 3582.9 | 3625.9 | 3682.8 | 3715.9 | 3739.7 | 3723.4 | 3686.3 | 3638.2 | 3639.3 | 3652.0 |
| 55°   | 3797.1 | 3817.4 | 3866.8 | 3943.9 | 4005.6 | 4072.3 | 4091.4 | 4090.2 | 4061.2 | 4069.4 | 4082.2 |
| 57.5° | 3906.9 | 3937.0 | 4013.1 | 4134.9 | 4260.3 | 4396.1 | 4511.1 | 4597.0 | 4633.5 | 4688.7 | 4675.9 |
| 60°   | 3699.1 | 3747.3 | 3859.2 | 4038.6 | 4286.5 | 4569.7 | 4873.3 | 5169.8 | 5422.9 | 5613.8 | 5504.2 |
| 62.5° | 3028.6 | 3091.4 | 3227.2 | 3457.0 | 3831.9 | 4285.2 | 4866.3 | 5567.5 | 6331.2 | 6792.1 | 6463.0 |
| 65°   | 1895.1 | 1960.1 | 2098.3 | 2344.3 | 2783.2 | 3346.7 | 4134.9 | 5297.0 | 6724.3 | 7419.0 | 6749.2 |
| 67.5° | 738.9  | 774.3  | 849.2  | 1006.5 | 1336.1 | 1837.6 | 2628.8 | 3947.4 | 5654.5 | 6263.4 | 5549.4 |
| 70°   | 370.3  | 373.7  | 387.8  | 416.8  | 487.6  | 633.2  | 963.5  | 1830.1 | 3242.9 | 3916.7 | 3126.1 |
| 72.5° | 267.5  | 268.1  | 275.2  | 287.9  | 310.6  | 343.1  | 405.7  | 560.1  | 1054.7 | 1611.8 | 988.5  |
| 75°   | 204.9  | 207.3  | 211.3  | 218.2  | 230.4  | 246.7  | 269.4  | 322.8  | 399.9  | 463.8  | 390.0  |
| 77.5° | 157.9  | 162.5  | 165.4  | 171.7  | 179.4  | 190.3  | 196.7  | 217.1  | 252.5  | 265.8  | 261.7  |
| 80°   | 120.1  | 124.2  | 130.6  | 135.8  | 141.1  | 146.3  | 143.9  | 153.2  | 171.7  | 182.8  | 177.0  |
| 82.5° | 76.6   | 81.3   | 99.9   | 104.5  | 106.7  | 110.3  | 106.2  | 106.7  | 114.9  | 122.0  | 114.9  |
| 85°   | 49.3   | 52.2   | 63.3   | 69.1   | 69.6   | 72.0   | 70.3   | 66.2   | 66.2   | 60.3   | 68.0   |
| 87.5° | 22.6   | 23.2   | 28.4   | 33.7   | 34.9   | 31.3   | 30.8   | 29.6   | 23.8   | 22.6   | 24.4   |
| 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°    | 1402.4 | 1402.4 | 1402.4 | 1402.4 | 1402.4 | 1402.4 | 1402.4 | 1402.4 |
| 2.5°  | 1401.7 | 1402.9 | 1403.4 | 1405.2 | 1405.8 | 1405.8 | 1406.3 | 1407.5 |
| 5°    | 1412.7 | 1414.5 | 1415.1 | 1417.4 | 1417.9 | 1417.4 | 1418.5 | 1419.2 |
| 7.5°  | 1432.5 | 1435.3 | 1436.5 | 1438.8 | 1437.1 | 1439.5 | 1440.0 | 1440.0 |
| 10°   | 1461.6 | 1464.4 | 1464.9 | 1467.4 | 1466.1 | 1467.4 | 1467.4 | 1466.1 |
| 12.5° | 1499.8 | 1500.3 | 1498.7 | 1500.3 | 1498.1 | 1499.2 | 1497.5 | 1496.3 |
| 15°   | 1542.2 | 1540.4 | 1536.4 | 1536.4 | 1532.9 | 1533.5 | 1532.9 | 1532.4 |
| 17.5° | 1583.3 | 1579.9 | 1577.0 | 1575.8 | 1572.9 | 1572.4 | 1570.6 | 1570.6 |
| 20°   | 1628.6 | 1627.0 | 1625.2 | 1622.8 | 1620.0 | 1617.0 | 1616.5 | 1617.7 |
| 22.5° | 1683.2 | 1682.7 | 1682.7 | 1681.5 | 1677.4 | 1674.5 | 1672.8 | 1672.8 |
| 25°   | 1756.4 | 1751.1 | 1751.1 | 1750.6 | 1748.8 | 1747.0 | 1743.6 | 1745.3 |
| 27.5° | 1838.9 | 1835.9 | 1838.2 | 1837.6 | 1835.9 | 1835.9 | 1833.6 | 1833.6 |
| 30°   | 1940.3 | 1939.3 | 1942.6 | 1939.8 | 1934.0 | 1933.4 | 1931.0 | 1928.2 |
| 32.5° | 2057.6 | 2056.5 | 2061.7 | 2058.2 | 2048.9 | 2043.7 | 2039.0 | 2036.7 |
| 35°   | 2188.3 | 2188.8 | 2195.1 | 2192.9 | 2182.4 | 2178.9 | 2170.8 | 2169.7 |
| 37.5° | 2330.9 | 2340.3 | 2351.3 | 2353.7 | 2344.9 | 2342.6 | 2333.9 | 2329.3 |
| 40°   | 2498.8 | 2510.9 | 2527.7 | 2531.9 | 2522.6 | 2520.8 | 2508.6 | 2502.2 |
| 42.5° | 2677.5 | 2698.3 | 2719.3 | 2722.7 | 2713.5 | 2704.1 | 2692.5 | 2688.0 |
| 45°   | 2877.2 | 2902.2 | 2929.3 | 2936.4 | 2922.4 | 2911.4 | 2896.4 | 2896.4 |
| 47.5° | 3101.3 | 3132.6 | 3163.3 | 3182.5 | 3169.7 | 3158.1 | 3140.1 | 3128.5 |
| 50°   | 3365.8 | 3408.8 | 3448.9 | 3468.7 | 3448.3 | 3426.3 | 3394.9 | 3384.5 |
| 52.5° | 3697.9 | 3744.4 | 3779.2 | 3768.7 | 3737.3 | 3706.6 | 3672.3 | 3658.4 |
| 55°   | 4121.6 | 4137.3 | 4137.3 | 4097.8 | 4035.2 | 3983.5 | 3929.5 | 3911.5 |
| 57.5° | 4651.5 | 4591.2 | 4498.3 | 4380.4 | 4232.4 | 4103.6 | 4016.6 | 3975.3 |
| 60°   | 5274.3 | 4984.1 | 4656.2 | 4334.0 | 4069.4 | 3851.2 | 3721.7 | 3662.5 |
| 62.5° | 5689.3 | 4930.1 | 4273.1 | 3755.9 | 3375.1 | 3112.2 | 2933.5 | 2863.8 |
| 65°   | 5317.3 | 4111.8 | 3231.8 | 2613.1 | 2198.1 | 1930.5 | 1753.5 | 1688.5 |
| 67.5° | 3894.6 | 2576.6 | 1721.0 | 1233.4 | 903.7  | 720.9  | 648.4  | 618.2  |
| 70°   | 1748.2 | 907.2  | 556.0  | 434.2  | 374.3  | 343.6  | 330.3  | 325.6  |
| 72.5° | 527.0  | 381.4  | 321.6  | 290.2  | 266.4  | 251.3  | 240.3  | 239.2  |
| 75°   | 318.1  | 264.6  | 235.1  | 216.6  | 201.4  | 189.2  | 183.4  | 181.7  |
| 77.5° | 222.4  | 194.5  | 180.5  | 167.1  | 155.5  | 146.3  | 141.1  | 137.0  |
| 80°   | 156.1  | 142.8  | 136.3  | 128.8  | 121.3  | 112.6  | 105.1  | 101.6  |
| 82.5° | 104.5  | 101.6  | 101.6  | 96.9   | 90.5   | 82.4   | 67.3   | 63.8   |
| 85°   | 67.3   | 66.7   | 68.0   | 66.2   | 61.5   | 52.8   | 43.4   | 41.2   |
| 87.5° | 31.3   | 31.9   | 35.4   | 34.9   | 33.7   | 27.9   | 22.1   | 20.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)