

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: P200389

Luminaire Tested: **GPC-AF-01-LED-E1-5NQ-7060-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200389  
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-01-LED-E1-5NQ-7060-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5298 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 44  
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

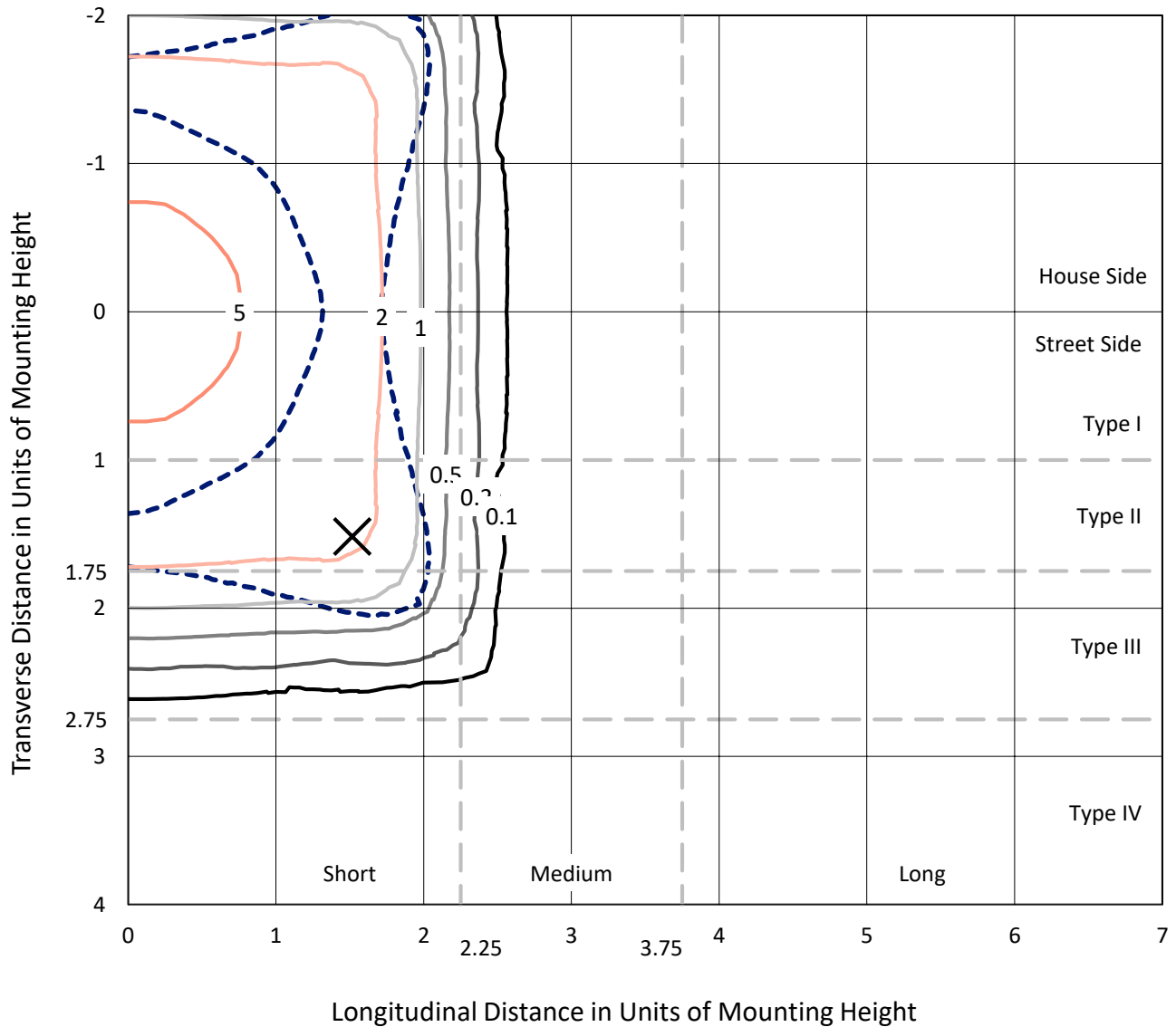


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### Iso-Footcandle Lines of Horizontal Illumination

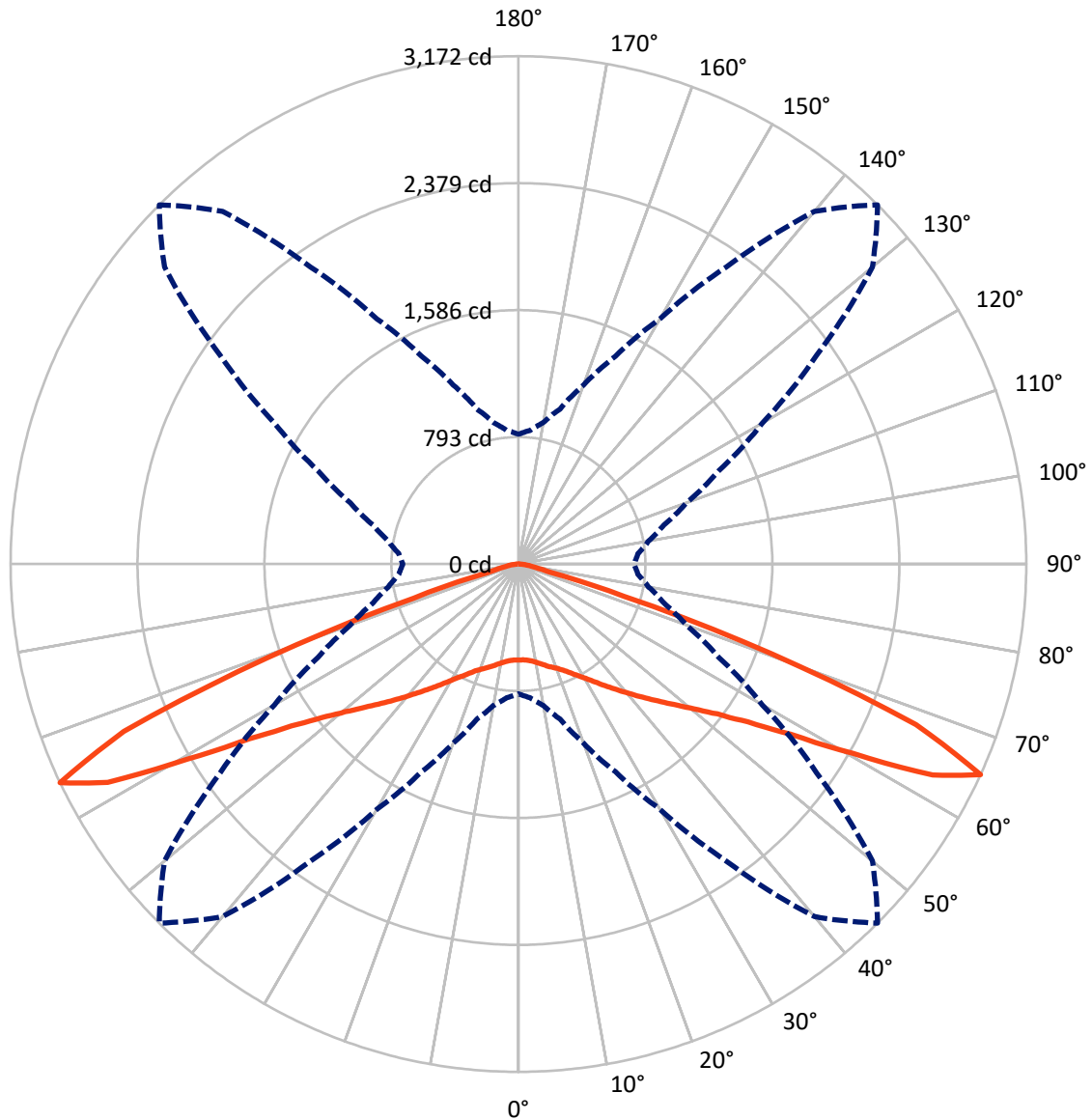
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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    | 2649.0   | 0.0    | 2649.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2649.0   | 0.0    | 2649.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5298.0   | 0.0    | 5298.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 58.4   | 1.1       |
| 10°-20°   | 187.4  | 3.5       |
| 20°-30°   | 350.4  | 6.6       |
| 30°-40°   | 592.6  | 11.2      |
| 40°-50°   | 969.0  | 18.3      |
| 50°-60°   | 1540.8 | 29.1      |
| 60°-70°   | 1392.8 | 26.3      |
| 70°-80°   | 176.3  | 3.3       |
| 80°-90°   | 30.3   | 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°    | 5298.0 | 100.0     |
| 0°-180°   | 5298.0 | 100.0     |



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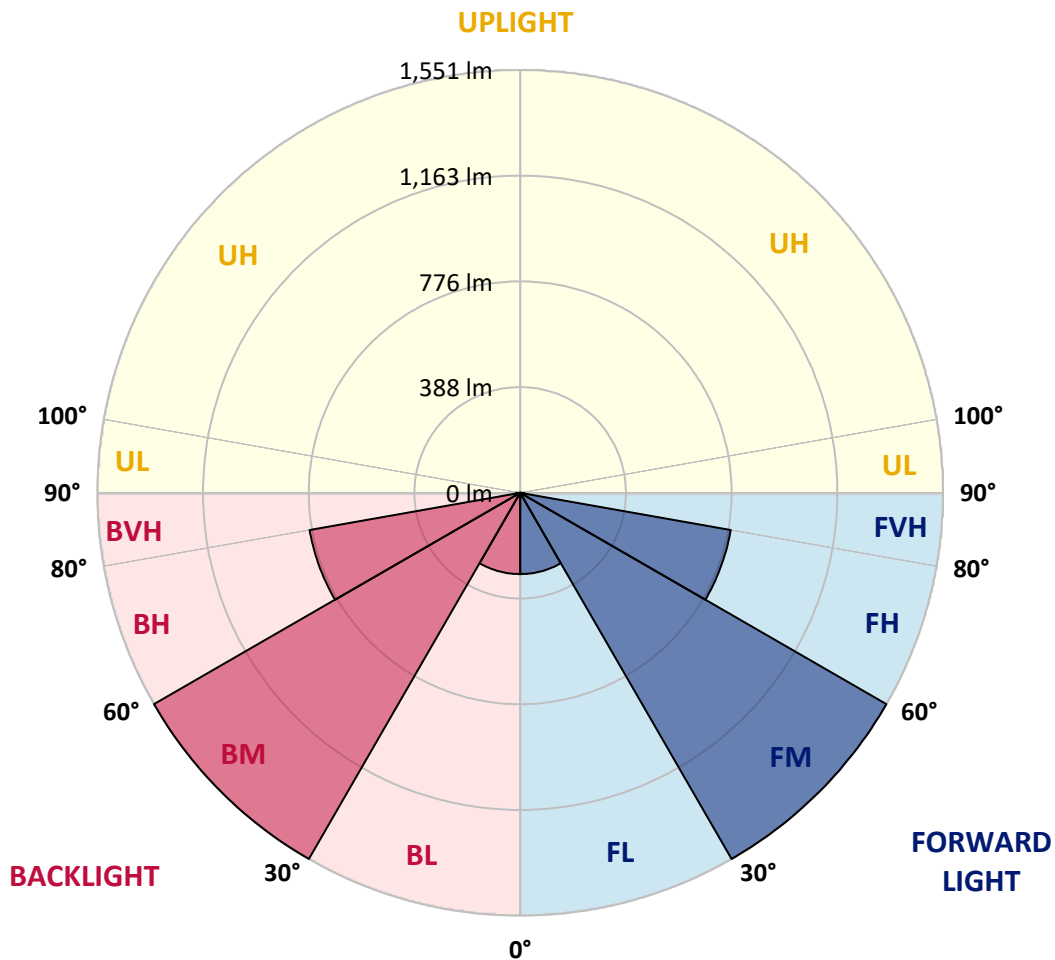
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 298.1  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 1551.2 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 784.5  | 14.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 15.2   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 298.1  | 5.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1551.2 | 29.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 784.5  | 14.8      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 15.2   | 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 V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  |
| 2.5°  | 600.0  | 600.5  | 601.0  | 600.5  | 601.0  | 600.2  | 599.7  | 600.5  | 599.7  | 599.0  | 599.5  |
| 5°    | 605.2  | 605.4  | 605.4  | 604.7  | 605.4  | 604.9  | 604.2  | 605.2  | 604.4  | 603.7  | 604.2  |
| 7.5°  | 613.9  | 614.9  | 614.1  | 613.4  | 613.9  | 613.4  | 612.9  | 613.1  | 612.9  | 612.1  | 612.4  |
| 10°   | 625.5  | 626.3  | 625.8  | 625.5  | 626.0  | 625.8  | 625.3  | 625.0  | 625.3  | 624.5  | 624.5  |
| 12.5° | 639.7  | 639.4  | 639.2  | 639.4  | 640.2  | 640.2  | 639.9  | 640.2  | 640.7  | 640.9  | 640.4  |
| 15°   | 653.6  | 654.1  | 654.1  | 654.1  | 655.5  | 656.8  | 657.5  | 658.0  | 659.0  | 659.3  | 658.3  |
| 17.5° | 670.9  | 670.9  | 670.7  | 670.9  | 672.4  | 674.4  | 675.1  | 676.1  | 677.1  | 677.9  | 676.6  |
| 20°   | 690.3  | 690.8  | 690.8  | 691.3  | 693.3  | 695.5  | 695.5  | 696.0  | 695.5  | 696.0  | 695.2  |
| 22.5° | 713.9  | 715.3  | 715.3  | 715.6  | 717.6  | 720.3  | 719.6  | 720.3  | 719.1  | 720.1  | 719.1  |
| 25°   | 744.6  | 746.9  | 746.4  | 746.4  | 747.9  | 749.6  | 749.8  | 751.3  | 751.1  | 752.3  | 751.6  |
| 27.5° | 779.4  | 782.8  | 783.8  | 783.6  | 784.6  | 786.3  | 786.8  | 788.5  | 787.6  | 788.5  | 788.0  |
| 30°   | 821.0  | 822.5  | 824.5  | 825.3  | 826.5  | 828.2  | 828.2  | 828.5  | 827.3  | 828.7  | 829.5  |
| 32.5° | 864.2  | 867.0  | 868.9  | 873.4  | 875.6  | 876.9  | 876.6  | 877.1  | 875.9  | 877.9  | 879.4  |
| 35°   | 921.3  | 923.3  | 926.5  | 930.0  | 933.0  | 932.7  | 932.0  | 932.2  | 932.2  | 933.9  | 935.4  |
| 37.5° | 990.0  | 990.5  | 994.7  | 999.7  | 1001.2 | 999.7  | 995.2  | 994.2  | 992.0  | 994.2  | 996.7  |
| 40°   | 1062.7 | 1064.5 | 1072.9 | 1076.1 | 1076.9 | 1074.1 | 1067.7 | 1064.0 | 1059.0 | 1061.7 | 1065.2 |
| 42.5° | 1138.9 | 1142.4 | 1150.1 | 1155.8 | 1158.3 | 1156.5 | 1147.6 | 1141.9 | 1135.4 | 1136.9 | 1140.4 |
| 45°   | 1223.3 | 1227.5 | 1238.4 | 1243.9 | 1248.6 | 1245.8 | 1237.2 | 1228.5 | 1218.3 | 1219.0 | 1224.5 |
| 47.5° | 1317.5 | 1321.8 | 1335.9 | 1345.1 | 1347.6 | 1347.1 | 1337.4 | 1325.5 | 1311.6 | 1311.1 | 1315.8 |
| 50°   | 1423.2 | 1427.5 | 1445.1 | 1459.2 | 1466.4 | 1465.7 | 1454.3 | 1437.4 | 1420.5 | 1420.8 | 1426.7 |
| 52.5° | 1526.5 | 1531.7 | 1550.0 | 1574.4 | 1588.5 | 1598.7 | 1591.7 | 1575.8 | 1555.3 | 1555.7 | 1561.2 |
| 55°   | 1623.2 | 1631.9 | 1653.0 | 1686.0 | 1712.3 | 1740.8 | 1749.0 | 1748.5 | 1736.1 | 1739.6 | 1745.1 |
| 57.5° | 1670.1 | 1683.0 | 1715.5 | 1767.6 | 1821.2 | 1879.3 | 1928.4 | 1965.2 | 1980.8 | 2004.4 | 1998.9 |
| 60°   | 1581.3 | 1601.9 | 1649.8 | 1726.5 | 1832.4 | 1953.5 | 2083.3 | 2210.1 | 2318.2 | 2399.9 | 2353.0 |
| 62.5° | 1294.7 | 1321.5 | 1379.6 | 1477.8 | 1638.1 | 1831.9 | 2080.3 | 2380.0 | 2706.6 | 2903.6 | 2762.9 |
| 65°   | 810.1  | 837.9  | 897.0  | 1002.2 | 1189.8 | 1430.7 | 1767.6 | 2264.4 | 2874.5 | 3171.5 | 2885.2 |
| 67.5° | 315.9  | 331.0  | 363.0  | 430.2  | 571.2  | 785.6  | 1123.8 | 1687.5 | 2417.2 | 2677.5 | 2372.3 |
| 70°   | 158.3  | 159.8  | 165.7  | 178.2  | 208.4  | 270.7  | 411.9  | 782.3  | 1386.3 | 1674.4 | 1336.4 |
| 72.5° | 114.4  | 114.6  | 117.6  | 123.1  | 132.7  | 146.6  | 173.4  | 239.4  | 450.8  | 689.0  | 422.6  |
| 75°   | 87.6   | 88.6   | 90.3   | 93.3   | 98.5   | 105.5  | 115.1  | 138.0  | 171.0  | 198.3  | 166.7  |
| 77.5° | 67.5   | 69.5   | 70.7   | 73.4   | 76.7   | 81.4   | 84.1   | 92.8   | 107.9  | 113.6  | 111.9  |
| 80°   | 51.4   | 53.1   | 55.8   | 58.1   | 60.3   | 62.5   | 61.5   | 65.5   | 73.4   | 78.2   | 75.7   |
| 82.5° | 32.8   | 34.7   | 42.7   | 44.7   | 45.7   | 47.1   | 45.4   | 45.7   | 49.1   | 52.1   | 49.1   |
| 85°   | 21.1   | 22.3   | 27.0   | 29.5   | 29.8   | 30.8   | 30.0   | 28.3   | 28.3   | 25.8   | 29.0   |
| 87.5° | 9.7    | 9.9    | 12.2   | 14.4   | 14.9   | 13.4   | 13.2   | 12.7   | 10.2   | 9.7    | 10.4   |
| 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°    | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  |
| 2.5°  | 599.2  | 599.7  | 600.0  | 600.7  | 601.0  | 601.0  | 601.2  | 601.7  |
| 5°    | 603.9  | 604.7  | 604.9  | 605.9  | 606.2  | 605.9  | 606.4  | 606.7  |
| 7.5°  | 612.4  | 613.6  | 614.1  | 615.1  | 614.4  | 615.4  | 615.6  | 615.6  |
| 10°   | 624.8  | 626.0  | 626.3  | 627.3  | 626.8  | 627.3  | 627.3  | 626.8  |
| 12.5° | 641.2  | 641.4  | 640.7  | 641.4  | 640.4  | 640.9  | 640.2  | 639.7  |
| 15°   | 659.3  | 658.5  | 656.8  | 656.8  | 655.3  | 655.5  | 655.3  | 655.1  |
| 17.5° | 676.9  | 675.4  | 674.2  | 673.7  | 672.4  | 672.2  | 671.4  | 671.4  |
| 20°   | 696.2  | 695.5  | 694.8  | 693.8  | 692.5  | 691.3  | 691.0  | 691.5  |
| 22.5° | 719.6  | 719.3  | 719.3  | 718.8  | 717.1  | 715.8  | 715.1  | 715.1  |
| 25°   | 750.8  | 748.6  | 748.6  | 748.3  | 747.6  | 746.9  | 745.4  | 746.1  |
| 27.5° | 786.1  | 784.8  | 785.8  | 785.6  | 784.8  | 784.8  | 783.8  | 783.8  |
| 30°   | 829.5  | 829.0  | 830.5  | 829.2  | 826.8  | 826.5  | 825.5  | 824.3  |
| 32.5° | 879.6  | 879.1  | 881.3  | 879.9  | 875.9  | 873.7  | 871.7  | 870.7  |
| 35°   | 935.4  | 935.7  | 938.4  | 937.4  | 933.0  | 931.5  | 928.0  | 927.5  |
| 37.5° | 996.5  | 1000.4 | 1005.2 | 1006.1 | 1002.4 | 1001.4 | 997.7  | 995.7  |
| 40°   | 1068.2 | 1073.4 | 1080.6 | 1082.3 | 1078.4 | 1077.6 | 1072.4 | 1069.7 |
| 42.5° | 1144.6 | 1153.5 | 1162.5 | 1164.0 | 1160.0 | 1156.0 | 1151.1 | 1149.1 |
| 45°   | 1230.0 | 1240.6 | 1252.3 | 1255.3 | 1249.3 | 1244.6 | 1238.1 | 1238.1 |
| 47.5° | 1325.7 | 1339.1 | 1352.3 | 1360.5 | 1355.0 | 1350.1 | 1342.4 | 1337.4 |
| 50°   | 1438.9 | 1457.2 | 1474.4 | 1482.8 | 1474.1 | 1464.7 | 1451.3 | 1446.8 |
| 52.5° | 1580.8 | 1600.7 | 1615.5 | 1611.1 | 1597.7 | 1584.5 | 1569.9 | 1563.9 |
| 55°   | 1761.9 | 1768.6 | 1768.6 | 1751.8 | 1725.0 | 1702.9 | 1679.8 | 1672.1 |
| 57.5° | 1988.5 | 1962.7 | 1923.0 | 1872.6 | 1809.3 | 1754.2 | 1717.0 | 1699.4 |
| 60°   | 2254.7 | 2130.7 | 1990.5 | 1852.8 | 1739.6 | 1646.3 | 1591.0 | 1565.7 |
| 62.5° | 2432.1 | 2107.6 | 1826.7 | 1605.6 | 1442.9 | 1330.4 | 1254.0 | 1224.3 |
| 65°   | 2273.1 | 1757.7 | 1381.6 | 1117.1 | 939.7  | 825.3  | 749.6  | 721.8  |
| 67.5° | 1664.9 | 1101.4 | 735.7  | 527.3  | 386.3  | 308.2  | 277.2  | 264.3  |
| 70°   | 747.4  | 387.8  | 237.7  | 185.6  | 160.0  | 146.9  | 141.2  | 139.2  |
| 72.5° | 225.3  | 163.0  | 137.5  | 124.1  | 113.9  | 107.4  | 102.7  | 102.2  |
| 75°   | 136.0  | 113.1  | 100.5  | 92.6   | 86.1   | 80.9   | 78.4   | 77.7   |
| 77.5° | 95.0   | 83.1   | 77.2   | 71.5   | 66.5   | 62.5   | 60.3   | 58.6   |
| 80°   | 66.7   | 61.0   | 58.3   | 55.1   | 51.9   | 48.1   | 44.9   | 43.4   |
| 82.5° | 44.7   | 43.4   | 43.4   | 41.4   | 38.7   | 35.2   | 28.8   | 27.3   |
| 85°   | 28.8   | 28.5   | 29.0   | 28.3   | 26.3   | 22.6   | 18.6   | 17.6   |
| 87.5° | 13.4   | 13.6   | 15.1   | 14.9   | 14.4   | 11.9   | 9.4    | 8.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)