

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: P300540

Luminaire Tested: **GLNA-AF-01-LED-E1-RW-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300540  
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: GLNA-AF-01-LED-E1-RW-7060  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND  
Rectangular Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6348.9 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

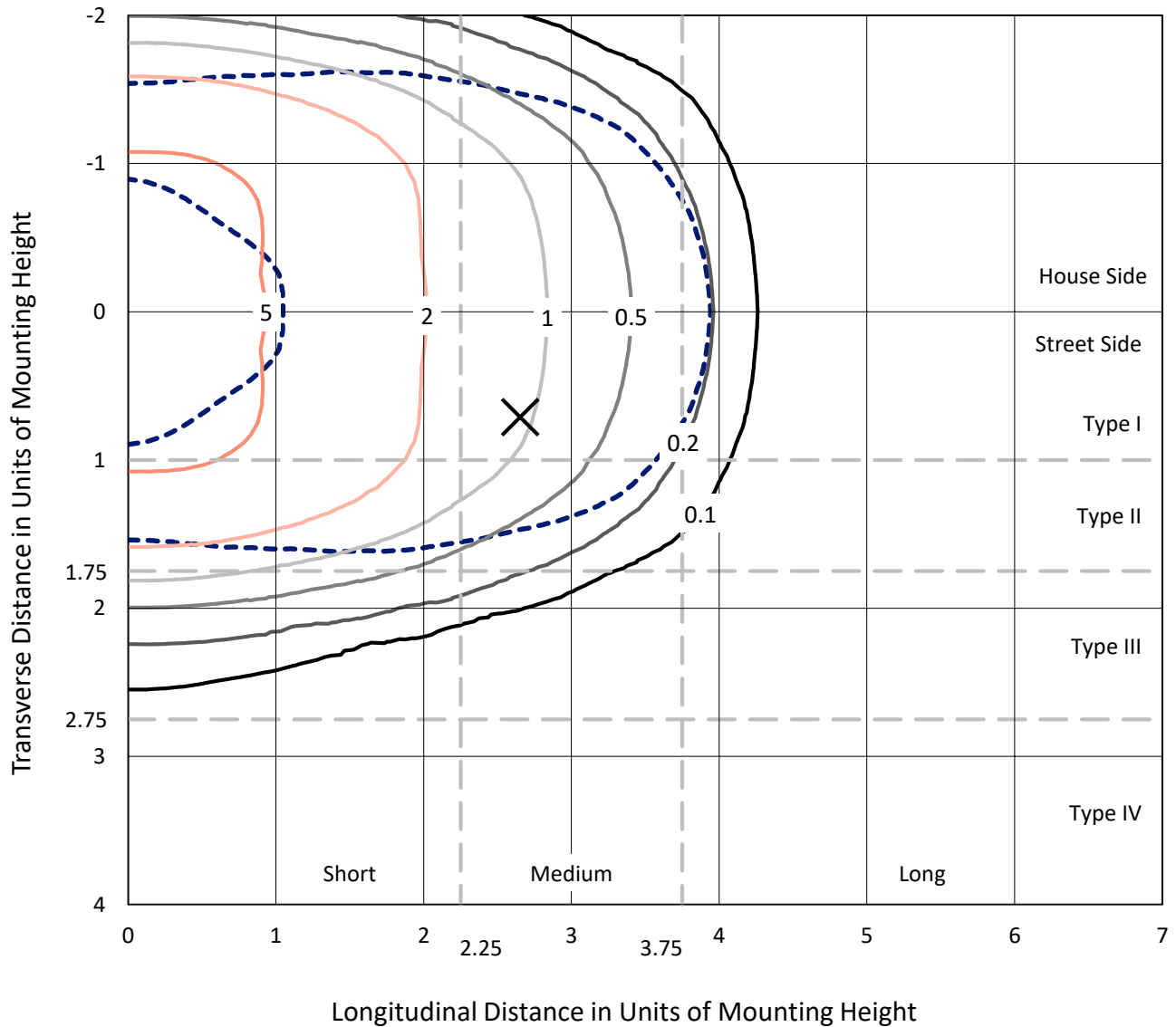
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

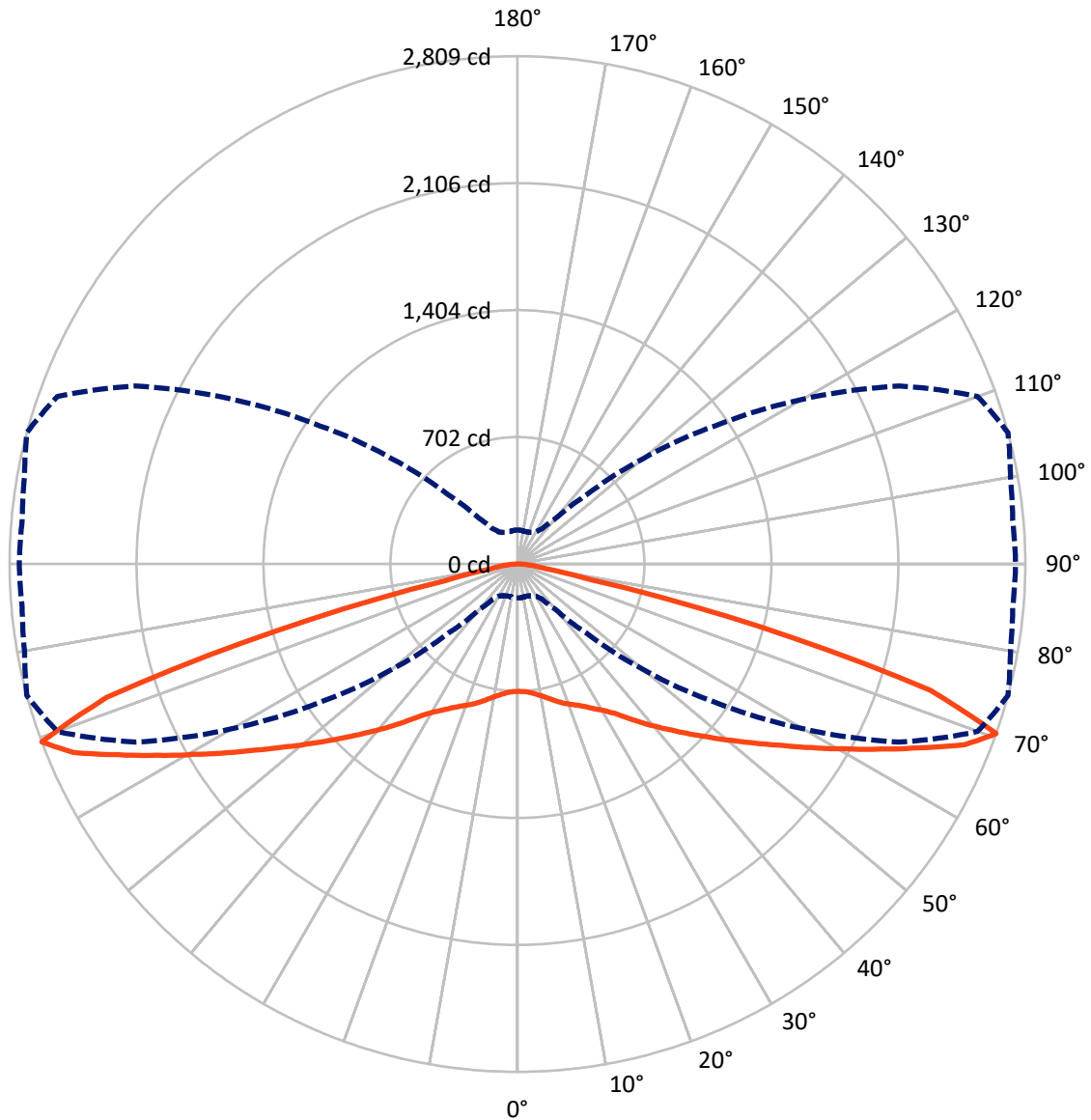
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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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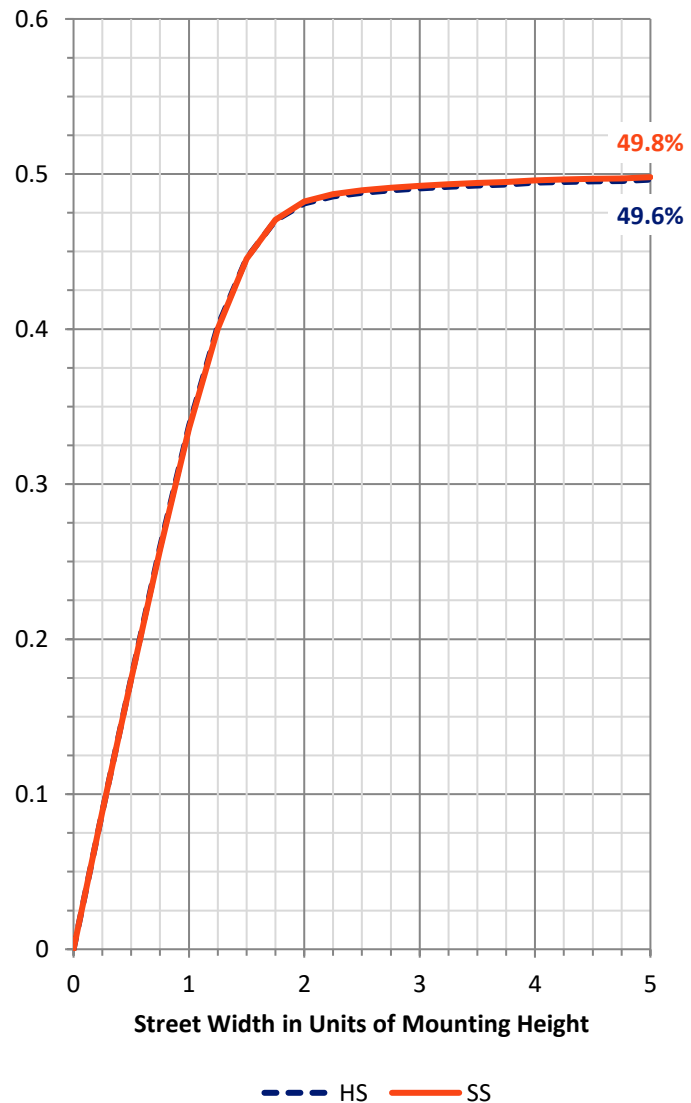
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3174.5   | 0.0    | 3174.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3174.5   | 0.0    | 3174.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6348.9   | 0.0    | 6348.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.5   | 1.1       |
| 10°-20°   | 209.9  | 3.3       |
| 20°-30°   | 395.0  | 6.2       |
| 30°-40°   | 699.5  | 11.0      |
| 40°-50°   | 1169.7 | 18.4      |
| 50°-60°   | 1630.0 | 25.7      |
| 60°-70°   | 1511.6 | 23.8      |
| 70°-80°   | 602.4  | 9.5       |
| 80°-90°   | 63.3   | 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°    | 6348.9 | 100.0     |
| 0°-180°   | 6348.9 | 100.0     |



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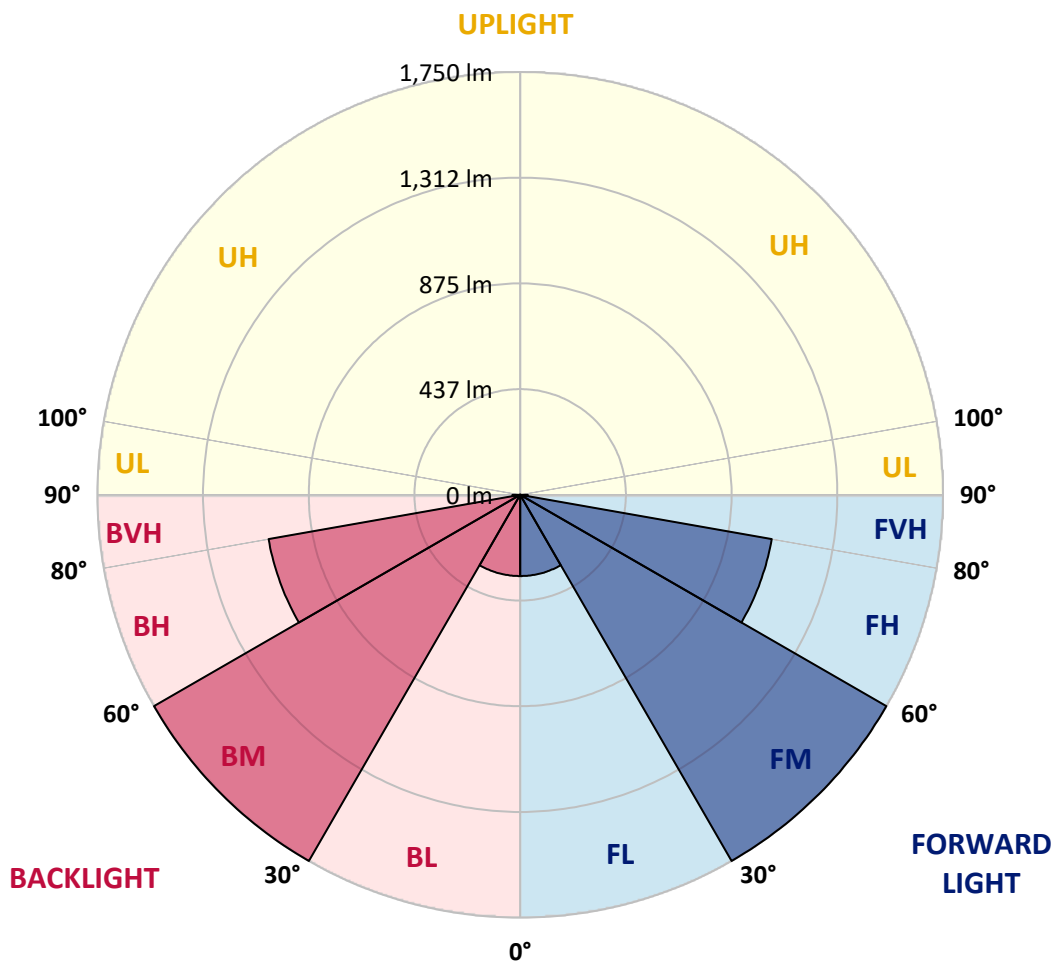
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 336.2  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 1749.6 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 1057.0 | 16.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 31.7   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 336.2  | 5.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1749.6 | 27.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1057.0 | 16.6      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 31.7   | 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°    | 704.2  | 704.2  | 704.2  | 704.2  | 704.2  | 704.2  | 704.2  | 704.2  | 704.2  | 704.2  | 704.2  |
| 2.5°  | 703.0  | 702.4  | 703.0  | 702.7  | 703.3  | 703.3  | 703.9  | 705.1  | 705.1  | 706.0  | 705.7  |
| 5°    | 696.1  | 695.8  | 696.7  | 697.6  | 698.5  | 700.3  | 702.1  | 704.8  | 706.9  | 708.4  | 709.9  |
| 7.5°  | 682.6  | 682.6  | 683.8  | 685.9  | 688.0  | 691.9  | 696.1  | 701.5  | 706.9  | 711.4  | 715.4  |
| 10°   | 671.5  | 672.1  | 673.6  | 677.2  | 680.8  | 686.8  | 692.5  | 700.3  | 707.8  | 715.4  | 721.4  |
| 12.5° | 664.9  | 665.8  | 668.5  | 673.9  | 679.9  | 688.0  | 696.7  | 706.6  | 715.1  | 724.1  | 730.1  |
| 15°   | 667.0  | 667.6  | 671.5  | 678.1  | 685.9  | 696.1  | 707.8  | 719.6  | 729.5  | 739.1  | 747.2  |
| 17.5° | 678.7  | 679.6  | 684.1  | 691.6  | 699.7  | 711.8  | 724.4  | 737.6  | 749.9  | 760.7  | 770.6  |
| 20°   | 699.7  | 700.6  | 706.3  | 714.5  | 724.1  | 736.4  | 749.0  | 762.8  | 776.6  | 788.0  | 799.1  |
| 22.5° | 729.5  | 731.0  | 736.4  | 744.5  | 755.3  | 768.5  | 783.5  | 798.2  | 811.4  | 821.9  | 831.8  |
| 25°   | 768.5  | 771.8  | 776.9  | 785.9  | 797.3  | 809.3  | 825.5  | 840.5  | 853.1  | 863.0  | 870.2  |
| 27.5° | 823.7  | 828.2  | 832.1  | 840.8  | 851.9  | 863.3  | 879.5  | 892.7  | 904.7  | 914.3  | 919.7  |
| 30°   | 896.9  | 901.4  | 905.3  | 913.7  | 923.9  | 934.7  | 950.0  | 961.7  | 969.2  | 976.7  | 976.4  |
| 32.5° | 985.7  | 990.5  | 992.0  | 1001.0 | 1011.5 | 1023.2 | 1037.0 | 1043.6 | 1049.6 | 1050.5 | 1045.1 |
| 35°   | 1085.0 | 1087.4 | 1093.4 | 1105.4 | 1117.4 | 1127.0 | 1140.2 | 1143.5 | 1143.5 | 1139.0 | 1127.0 |
| 37.5° | 1194.0 | 1195.5 | 1203.9 | 1217.4 | 1229.7 | 1239.6 | 1248.6 | 1255.2 | 1251.9 | 1242.3 | 1222.2 |
| 40°   | 1313.4 | 1316.1 | 1328.1 | 1340.1 | 1353.9 | 1363.2 | 1372.8 | 1374.0 | 1370.7 | 1356.6 | 1329.3 |
| 42.5° | 1427.4 | 1429.8 | 1441.8 | 1460.7 | 1478.7 | 1491.6 | 1500.6 | 1502.4 | 1491.9 | 1479.0 | 1445.1 |
| 45°   | 1525.5 | 1531.8 | 1547.4 | 1569.6 | 1595.7 | 1614.0 | 1626.3 | 1631.4 | 1622.1 | 1605.3 | 1566.0 |
| 47.5° | 1603.2 | 1609.5 | 1631.7 | 1658.1 | 1690.6 | 1720.3 | 1740.7 | 1751.5 | 1749.1 | 1736.5 | 1693.6 |
| 50°   | 1660.2 | 1666.3 | 1690.3 | 1722.7 | 1760.5 | 1797.4 | 1832.2 | 1858.0 | 1867.0 | 1861.3 | 1822.0 |
| 52.5° | 1666.9 | 1676.8 | 1705.0 | 1748.5 | 1797.7 | 1848.1 | 1897.6 | 1941.4 | 1971.1 | 1975.6 | 1946.5 |
| 55°   | 1574.7 | 1584.6 | 1623.6 | 1688.2 | 1761.4 | 1843.6 | 1922.8 | 1996.6 | 2055.1 | 2085.1 | 2069.8 |
| 57.5° | 1357.5 | 1375.2 | 1416.3 | 1491.9 | 1599.6 | 1722.7 | 1849.0 | 1980.1 | 2099.2 | 2178.8 | 2194.1 |
| 60°   | 1040.3 | 1061.3 | 1102.7 | 1183.1 | 1303.2 | 1449.9 | 1618.5 | 1812.4 | 2022.7 | 2201.6 | 2308.4 |
| 62.5° | 667.3  | 687.1  | 730.7  | 800.6  | 898.4  | 1057.4 | 1238.4 | 1468.5 | 1751.2 | 2033.5 | 2288.0 |
| 65°   | 343.0  | 353.8  | 376.6  | 418.9  | 495.1  | 613.9  | 776.3  | 1005.8 | 1329.0 | 1677.4 | 2045.2 |
| 67.5° | 217.2  | 219.3  | 224.4  | 230.4  | 250.0  | 291.1  | 366.7  | 509.8  | 775.7  | 1139.0 | 1569.6 |
| 70°   | 187.8  | 187.8  | 185.4  | 184.5  | 186.9  | 192.6  | 204.3  | 237.7  | 327.4  | 540.7  | 905.3  |
| 72.5° | 171.9  | 170.1  | 165.9  | 162.6  | 162.0  | 162.0  | 164.4  | 169.5  | 183.9  | 220.2  | 354.4  |
| 75°   | 158.4  | 153.3  | 147.6  | 143.7  | 142.2  | 140.7  | 140.4  | 141.3  | 144.3  | 150.0  | 169.2  |
| 77.5° | 141.9  | 135.3  | 128.7  | 124.8  | 123.0  | 120.9  | 119.1  | 117.0  | 115.5  | 117.3  | 125.7  |
| 80°   | 122.1  | 114.6  | 109.5  | 107.1  | 105.3  | 102.3  | 98.4   | 94.8   | 91.5   | 90.9   | 96.0   |
| 82.5° | 98.4   | 89.7   | 90.0   | 90.9   | 87.6   | 83.4   | 79.2   | 75.3   | 69.6   | 66.6   | 69.6   |
| 85°   | 79.5   | 75.0   | 72.9   | 78.6   | 73.8   | 67.5   | 60.9   | 54.0   | 45.0   | 37.8   | 41.1   |
| 87.5° | 30.9   | 30.9   | 46.2   | 71.1   | 63.9   | 52.2   | 44.7   | 38.1   | 23.7   | 18.3   | 18.6   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 704.2  | 704.2  | 704.2  | 704.2  | 704.2  | 704.2  | 704.2  | 704.2  |
| 2.5°  | 705.4  | 706.0  | 705.7  | 705.4  | 705.4  | 705.1  | 705.4  | 705.4  |
| 5°    | 710.8  | 712.4  | 712.4  | 713.0  | 713.0  | 713.3  | 713.6  | 713.3  |
| 7.5°  | 719.0  | 721.7  | 723.5  | 725.6  | 725.9  | 726.2  | 726.8  | 726.2  |
| 10°   | 727.1  | 732.5  | 736.4  | 740.3  | 742.1  | 742.7  | 743.3  | 743.3  |
| 12.5° | 737.3  | 744.8  | 751.7  | 758.6  | 761.9  | 763.7  | 763.7  | 764.9  |
| 15°   | 754.1  | 761.6  | 769.7  | 779.0  | 784.7  | 787.7  | 788.6  | 788.6  |
| 17.5° | 777.8  | 784.4  | 791.3  | 800.3  | 807.5  | 811.4  | 812.3  | 812.0  |
| 20°   | 805.4  | 811.7  | 815.6  | 821.3  | 827.6  | 832.1  | 833.3  | 833.3  |
| 22.5° | 836.9  | 840.5  | 841.1  | 842.9  | 848.0  | 854.0  | 856.7  | 857.3  |
| 25°   | 871.7  | 872.6  | 870.2  | 870.2  | 873.5  | 879.2  | 881.9  | 882.2  |
| 27.5° | 916.7  | 912.2  | 906.2  | 904.1  | 906.2  | 912.8  | 916.1  | 917.3  |
| 30°   | 972.8  | 962.0  | 948.2  | 940.7  | 939.5  | 948.2  | 954.2  | 955.1  |
| 32.5° | 1037.0 | 1021.4 | 1003.1 | 987.8  | 983.9  | 989.3  | 996.5  | 996.2  |
| 35°   | 1113.2 | 1094.6 | 1072.4 | 1052.9 | 1043.9 | 1049.3 | 1059.5 | 1060.7 |
| 37.5° | 1201.2 | 1176.8 | 1151.3 | 1126.7 | 1112.6 | 1114.1 | 1124.9 | 1128.5 |
| 40°   | 1299.3 | 1267.8 | 1235.7 | 1202.7 | 1182.5 | 1178.6 | 1191.9 | 1194.0 |
| 42.5° | 1404.3 | 1363.8 | 1323.3 | 1282.5 | 1256.7 | 1250.7 | 1266.0 | 1265.1 |
| 45°   | 1516.2 | 1464.6 | 1417.2 | 1372.2 | 1341.6 | 1332.6 | 1345.2 | 1345.2 |
| 47.5° | 1636.5 | 1572.9 | 1516.5 | 1465.5 | 1432.2 | 1419.3 | 1431.3 | 1432.2 |
| 50°   | 1764.1 | 1696.6 | 1630.2 | 1573.5 | 1533.6 | 1517.1 | 1532.7 | 1535.1 |
| 52.5° | 1891.0 | 1825.3 | 1758.4 | 1693.6 | 1645.2 | 1625.1 | 1643.1 | 1650.9 |
| 55°   | 2019.7 | 1955.2 | 1891.3 | 1828.0 | 1770.7 | 1747.0 | 1766.2 | 1776.1 |
| 57.5° | 2155.7 | 2095.9 | 2035.0 | 1971.1 | 1915.9 | 1879.0 | 1899.4 | 1912.6 |
| 60°   | 2315.0 | 2264.0 | 2200.7 | 2130.1 | 2074.3 | 2036.8 | 2048.5 | 2060.2 |
| 62.5° | 2441.0 | 2460.8 | 2407.1 | 2325.5 | 2253.8 | 2205.8 | 2217.2 | 2229.5 |
| 65°   | 2380.1 | 2583.2 | 2631.0 | 2548.4 | 2449.1 | 2374.4 | 2369.6 | 2375.9 |
| 67.5° | 1989.4 | 2384.0 | 2671.8 | 2750.4 | 2667.3 | 2563.4 | 2544.2 | 2553.5 |
| 70°   | 1330.8 | 1822.3 | 2330.0 | 2708.1 | 2808.6 | 2768.4 | 2749.5 | 2755.2 |
| 72.5° | 639.1  | 1061.3 | 1580.7 | 2083.3 | 2389.4 | 2529.8 | 2574.8 | 2596.7 |
| 75°   | 233.7  | 421.3  | 761.9  | 1148.0 | 1386.0 | 1604.4 | 1747.0 | 1805.2 |
| 77.5° | 141.0  | 170.1  | 243.4  | 366.4  | 415.0  | 464.5  | 445.3  | 454.9  |
| 80°   | 104.4  | 117.9  | 133.5  | 150.0  | 155.4  | 155.4  | 149.4  | 144.6  |
| 82.5° | 73.2   | 81.9   | 89.4   | 98.4   | 100.8  | 96.3   | 79.2   | 63.0   |
| 85°   | 47.1   | 51.0   | 54.3   | 60.0   | 58.5   | 55.8   | 37.5   | 33.3   |
| 87.5° | 21.6   | 24.6   | 25.8   | 28.5   | 27.3   | 26.1   | 18.6   | 15.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)