

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: P200388

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200388  
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: GWC-AF-02-LED-E1-5NQ-7060-600  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8443 lumens  
Efficiency: N/A  
Efficacy: 127.9 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 - G1

Input Watts (W): 66  
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

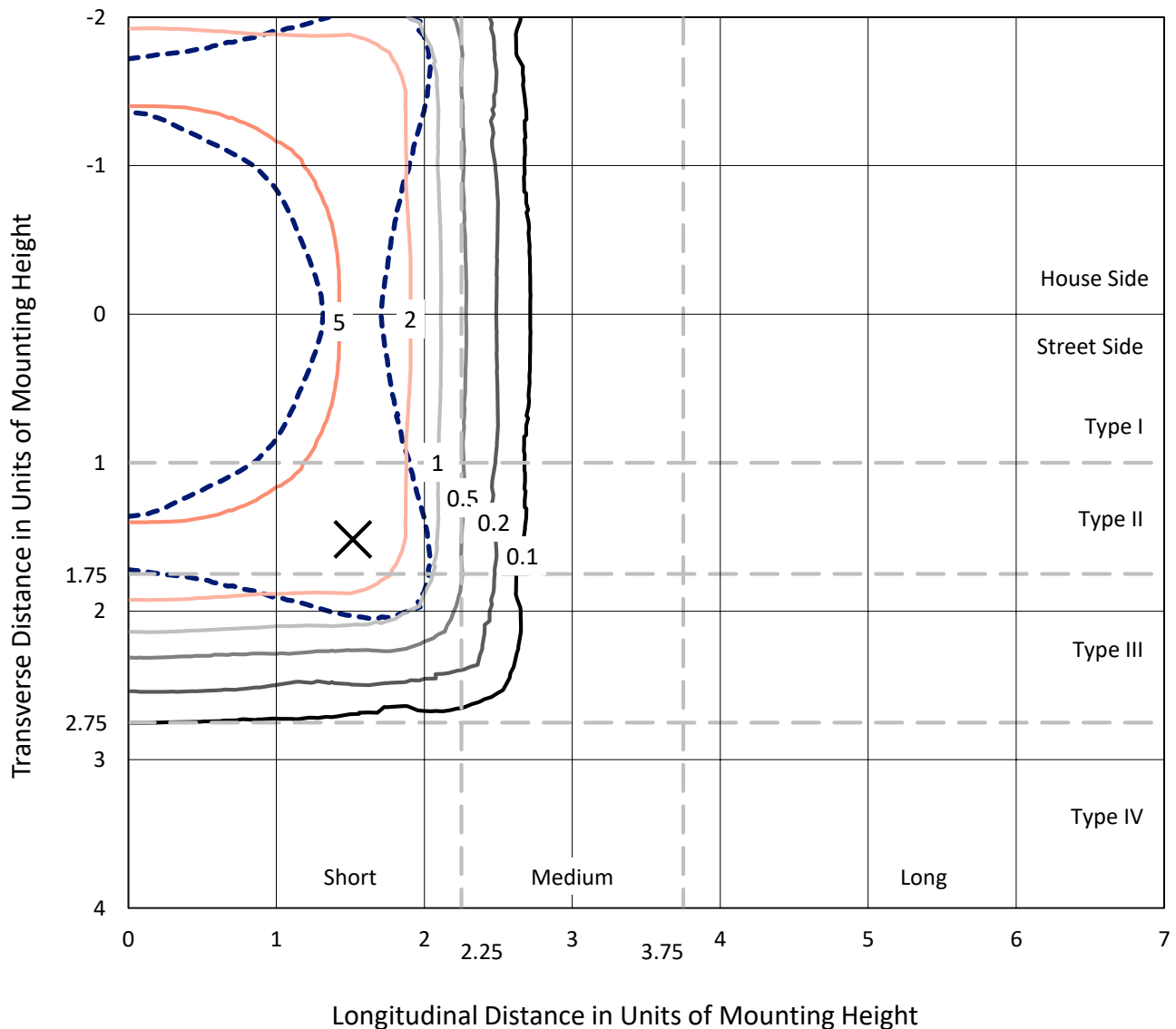


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

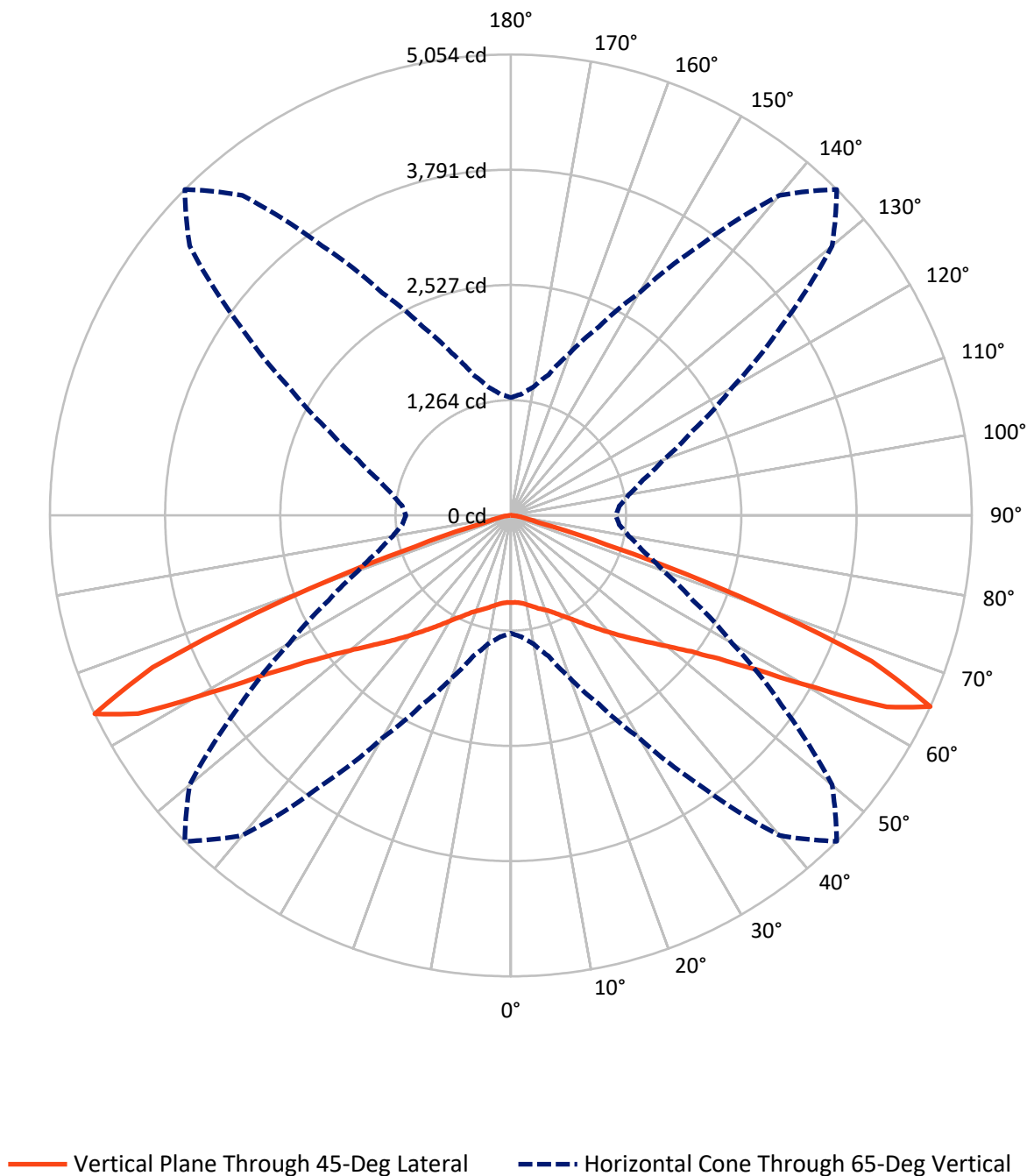


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc  
Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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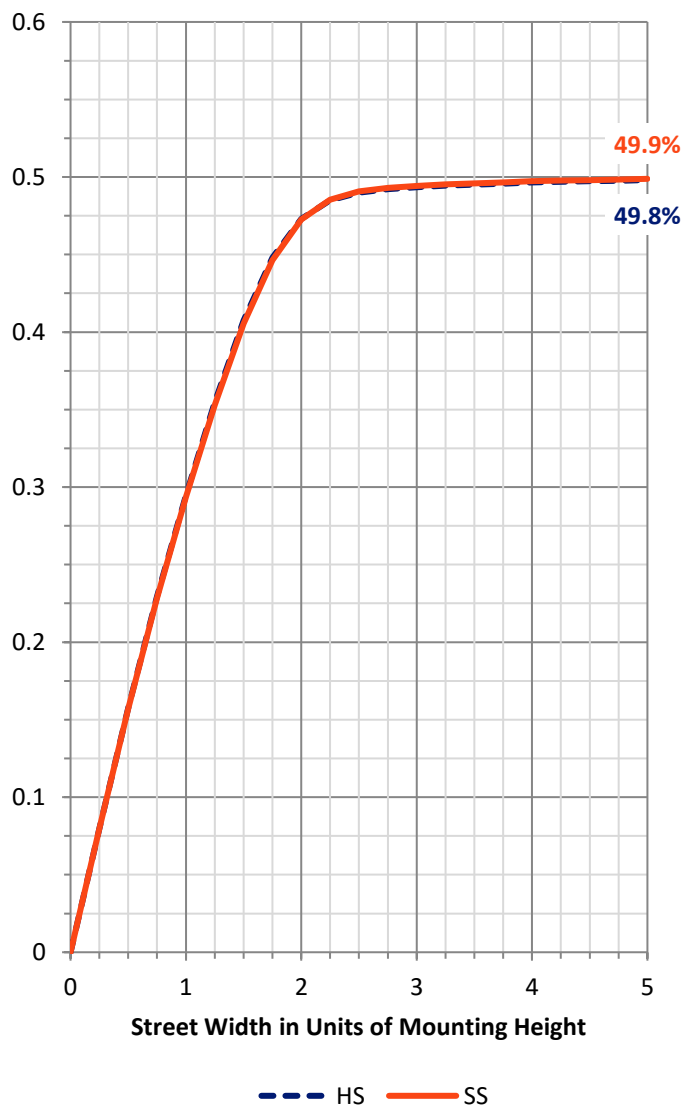
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4221.5   | 0.0    | 4221.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4221.5   | 0.0    | 4221.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8443.0   | 0.0    | 8443.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.1   | 1.1       |
| 10°-20°   | 298.6  | 3.5       |
| 20°-30°   | 558.4  | 6.6       |
| 30°-40°   | 944.4  | 11.2      |
| 40°-50°   | 1544.2 | 18.3      |
| 50°-60°   | 2455.5 | 29.1      |
| 60°-70°   | 2219.6 | 26.3      |
| 70°-80°   | 280.9  | 3.3       |
| 80°-90°   | 48.3   | 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°    | 8443.0 | 100.0     |
| 0°-180°   | 8443.0 | 100.0     |

**Coefficient of Utilization**



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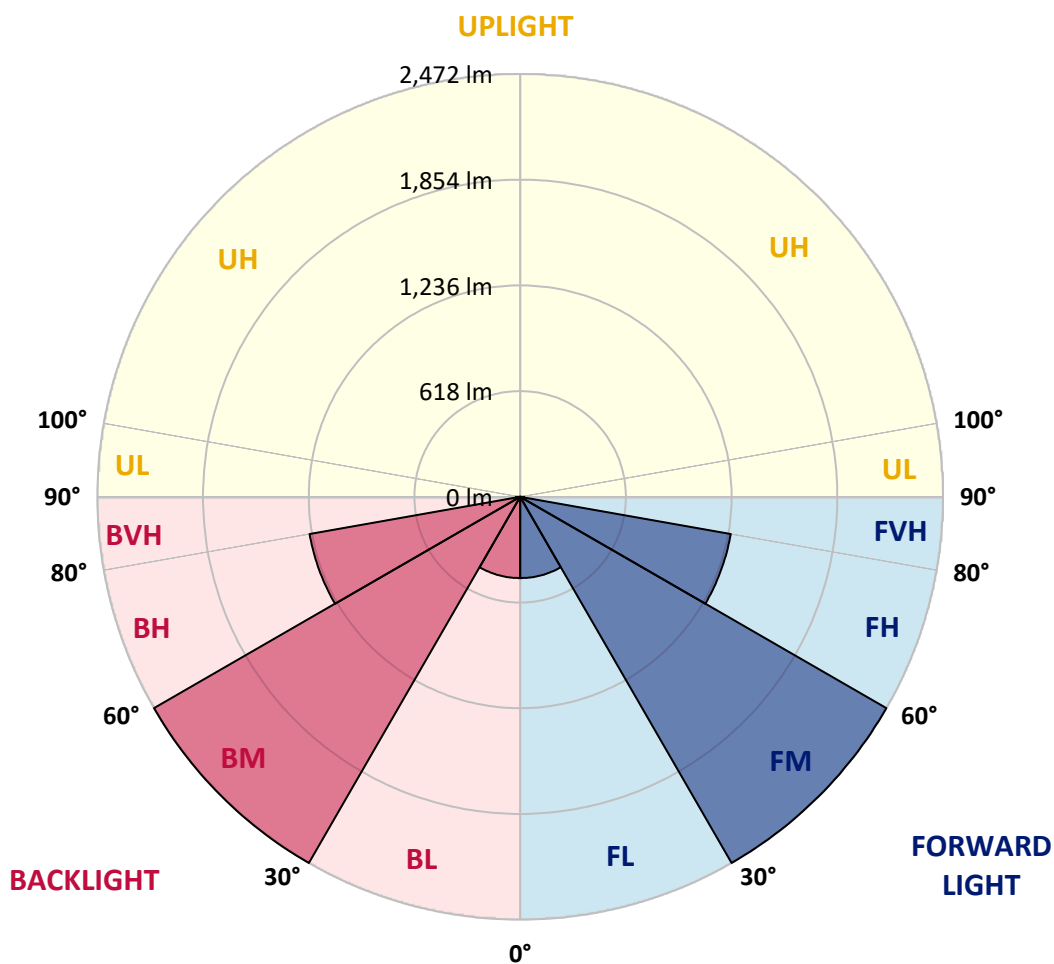
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 475.1  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 2472.0 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 1250.2 | 14.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 24.2   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 475.1  | 5.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2472.0 | 29.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1250.2 | 14.8      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 24.2   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 955.3  | 955.3  | 955.3  | 955.3  | 955.3  | 955.3  | 955.3  | 955.3  | 955.3  | 955.3  | 955.3  |
| 2.5°  | 956.1  | 956.9  | 957.7  | 956.9  | 957.7  | 956.5  | 955.7  | 956.9  | 955.7  | 954.5  | 955.3  |
| 5°    | 964.4  | 964.8  | 964.8  | 963.6  | 964.8  | 964.0  | 962.8  | 964.4  | 963.2  | 962.1  | 962.8  |
| 7.5°  | 978.3  | 979.8  | 978.7  | 977.5  | 978.3  | 977.5  | 976.7  | 977.1  | 976.7  | 975.5  | 975.9  |
| 10°   | 996.8  | 998.0  | 997.2  | 996.8  | 997.6  | 997.2  | 996.5  | 996.1  | 996.5  | 995.3  | 995.3  |
| 12.5° | 1019.4 | 1019.0 | 1018.6 | 1019.0 | 1020.2 | 1020.2 | 1019.8 | 1020.2 | 1021.0 | 1021.4 | 1020.6 |
| 15°   | 1041.5 | 1042.3 | 1042.3 | 1042.3 | 1044.7 | 1046.7 | 1047.9 | 1048.6 | 1050.2 | 1050.6 | 1049.0 |
| 17.5° | 1069.2 | 1069.2 | 1068.8 | 1069.2 | 1071.6 | 1074.7 | 1075.9 | 1077.5 | 1079.1 | 1080.3 | 1078.3 |
| 20°   | 1100.1 | 1100.8 | 1100.8 | 1101.6 | 1104.8 | 1108.4 | 1108.4 | 1109.1 | 1108.4 | 1109.1 | 1108.0 |
| 22.5° | 1137.6 | 1140.0 | 1140.0 | 1140.4 | 1143.5 | 1147.9 | 1146.7 | 1147.9 | 1145.9 | 1147.5 | 1145.9 |
| 25°   | 1186.6 | 1190.2 | 1189.4 | 1189.4 | 1191.8 | 1194.6 | 1195.0 | 1197.3 | 1196.9 | 1198.9 | 1197.7 |
| 27.5° | 1242.0 | 1247.5 | 1249.1 | 1248.7 | 1250.3 | 1253.1 | 1253.9 | 1256.6 | 1255.1 | 1256.6 | 1255.8 |
| 30°   | 1308.4 | 1310.8 | 1314.0 | 1315.2 | 1317.1 | 1319.9 | 1319.9 | 1320.3 | 1318.3 | 1320.7 | 1321.9 |
| 32.5° | 1377.2 | 1381.6 | 1384.8 | 1391.9 | 1395.4 | 1397.4 | 1397.0 | 1397.8 | 1395.8 | 1399.0 | 1401.4 |
| 35°   | 1468.2 | 1471.4 | 1476.5 | 1482.0 | 1486.8 | 1486.4 | 1485.2 | 1485.6 | 1485.6 | 1488.4 | 1490.7 |
| 37.5° | 1577.7 | 1578.5 | 1585.2 | 1593.1 | 1595.5 | 1593.1 | 1586.0 | 1584.4 | 1580.9 | 1584.4 | 1588.4 |
| 40°   | 1693.6 | 1696.3 | 1709.8 | 1714.9 | 1716.1 | 1711.8 | 1701.5 | 1695.6 | 1687.6 | 1692.0 | 1697.5 |
| 42.5° | 1815.0 | 1820.5 | 1832.8 | 1841.9 | 1845.8 | 1843.0 | 1828.8 | 1819.7 | 1809.4 | 1811.8 | 1817.3 |
| 45°   | 1949.4 | 1956.1 | 1973.5 | 1982.2 | 1989.7 | 1985.4 | 1971.6 | 1957.7 | 1941.5 | 1942.7 | 1951.4 |
| 47.5° | 2099.7 | 2106.4 | 2128.9 | 2143.6 | 2147.5 | 2146.7 | 2131.3 | 2112.3 | 2090.2 | 2089.4 | 2096.9 |
| 50°   | 2268.1 | 2274.8 | 2302.9 | 2325.5 | 2336.9 | 2335.7 | 2317.5 | 2290.7 | 2263.8 | 2264.2 | 2273.7 |
| 52.5° | 2432.6 | 2440.9 | 2470.2 | 2508.9 | 2531.5 | 2547.7 | 2536.6 | 2511.3 | 2478.5 | 2479.3 | 2488.0 |
| 55°   | 2586.8 | 2600.7 | 2634.3 | 2686.9 | 2728.8 | 2774.3 | 2787.3 | 2786.5 | 2766.7 | 2772.3 | 2781.0 |
| 57.5° | 2661.6 | 2682.1 | 2733.9 | 2817.0 | 2902.4 | 2994.9 | 3073.2 | 3131.7 | 3156.6 | 3194.2 | 3185.5 |
| 60°   | 2520.0 | 2552.8 | 2629.1 | 2751.3 | 2920.2 | 3113.1 | 3319.9 | 3522.0 | 3694.4 | 3824.5 | 3749.7 |
| 62.5° | 2063.3 | 2106.0 | 2198.5 | 2355.1 | 2610.5 | 2919.4 | 3315.2 | 3792.8 | 4313.2 | 4627.2 | 4403.0 |
| 65°   | 1291.0 | 1335.3 | 1429.4 | 1597.1 | 1896.0 | 2280.0 | 2817.0 | 3608.6 | 4580.9 | 5054.2 | 4597.9 |
| 67.5° | 503.4  | 527.5  | 578.5  | 685.7  | 910.3  | 1251.9 | 1790.8 | 2689.2 | 3852.2 | 4267.0 | 3780.6 |
| 70°   | 252.3  | 254.6  | 264.1  | 283.9  | 332.2  | 431.4  | 656.4  | 1246.8 | 2209.2 | 2668.3 | 2129.7 |
| 72.5° | 182.3  | 182.7  | 187.4  | 196.1  | 211.5  | 233.7  | 276.4  | 381.6  | 718.5  | 1098.1 | 673.4  |
| 75°   | 139.6  | 141.2  | 143.9  | 148.7  | 157.0  | 168.1  | 183.5  | 219.9  | 272.4  | 315.9  | 265.7  |
| 77.5° | 107.6  | 110.7  | 112.7  | 117.0  | 122.2  | 129.7  | 134.0  | 147.9  | 172.0  | 181.1  | 178.3  |
| 80°   | 81.9   | 84.6   | 89.0   | 92.5   | 96.1   | 99.6   | 98.1   | 104.4  | 117.0  | 124.6  | 120.6  |
| 82.5° | 52.2   | 55.4   | 68.0   | 71.2   | 72.8   | 75.1   | 72.4   | 72.8   | 78.3   | 83.0   | 78.3   |
| 85°   | 33.6   | 35.6   | 43.1   | 47.1   | 47.5   | 49.0   | 47.8   | 45.1   | 45.1   | 41.1   | 46.3   |
| 87.5° | 15.4   | 15.8   | 19.4   | 22.9   | 23.7   | 21.4   | 21.0   | 20.2   | 16.2   | 15.4   | 16.6   |
| 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°    | 955.3  | 955.3  | 955.3  | 955.3  | 955.3  | 955.3  | 955.3  | 955.3  |
| 2.5°  | 954.9  | 955.7  | 956.1  | 957.3  | 957.7  | 957.7  | 958.1  | 958.9  |
| 5°    | 962.4  | 963.6  | 964.0  | 965.6  | 966.0  | 965.6  | 966.4  | 966.8  |
| 7.5°  | 975.9  | 977.9  | 978.7  | 980.2  | 979.1  | 980.6  | 981.0  | 981.0  |
| 10°   | 995.7  | 997.6  | 998.0  | 999.6  | 998.8  | 999.6  | 999.6  | 998.8  |
| 12.5° | 1021.8 | 1022.2 | 1021.0 | 1022.2 | 1020.6 | 1021.4 | 1020.2 | 1019.4 |
| 15°   | 1050.6 | 1049.4 | 1046.7 | 1046.7 | 1044.3 | 1044.7 | 1044.3 | 1043.9 |
| 17.5° | 1078.7 | 1076.3 | 1074.4 | 1073.6 | 1071.6 | 1071.2 | 1070.0 | 1070.0 |
| 20°   | 1109.5 | 1108.4 | 1107.2 | 1105.6 | 1103.6 | 1101.6 | 1101.2 | 1102.0 |
| 22.5° | 1146.7 | 1146.3 | 1146.3 | 1145.5 | 1142.8 | 1140.8 | 1139.6 | 1139.6 |
| 25°   | 1196.5 | 1193.0 | 1193.0 | 1192.6 | 1191.4 | 1190.2 | 1187.8 | 1189.0 |
| 27.5° | 1252.7 | 1250.7 | 1252.3 | 1251.9 | 1250.7 | 1250.7 | 1249.1 | 1249.1 |
| 30°   | 1321.9 | 1321.1 | 1323.5 | 1321.5 | 1317.5 | 1317.1 | 1315.6 | 1313.6 |
| 32.5° | 1401.8 | 1401.0 | 1404.5 | 1402.2 | 1395.8 | 1392.3 | 1389.1 | 1387.5 |
| 35°   | 1490.7 | 1491.1 | 1495.5 | 1493.9 | 1486.8 | 1484.4 | 1478.9 | 1478.1 |
| 37.5° | 1588.0 | 1594.3 | 1601.8 | 1603.4 | 1597.5 | 1595.9 | 1590.0 | 1586.8 |
| 40°   | 1702.3 | 1710.6 | 1722.0 | 1724.8 | 1718.5 | 1717.3 | 1709.0 | 1704.6 |
| 42.5° | 1824.1 | 1838.3 | 1852.5 | 1854.9 | 1848.6 | 1842.3 | 1834.3 | 1831.2 |
| 45°   | 1960.1 | 1977.1 | 1995.7 | 2000.4 | 1990.9 | 1983.4 | 1973.1 | 1973.1 |
| 47.5° | 2112.7 | 2134.1 | 2155.0 | 2168.1 | 2159.4 | 2151.5 | 2139.2 | 2131.3 |
| 50°   | 2293.0 | 2322.3 | 2349.6 | 2363.0 | 2349.2 | 2334.2 | 2312.8 | 2305.7 |
| 52.5° | 2519.2 | 2550.8 | 2574.6 | 2567.4 | 2546.1 | 2525.1 | 2501.8 | 2492.3 |
| 55°   | 2807.9 | 2818.5 | 2818.5 | 2791.7 | 2748.9 | 2713.8 | 2677.0 | 2664.7 |
| 57.5° | 3168.9 | 3127.8 | 3064.5 | 2984.2 | 2883.4 | 2795.6 | 2736.3 | 2708.2 |
| 60°   | 3593.2 | 3395.5 | 3172.0 | 2952.6 | 2772.3 | 2623.6 | 2535.4 | 2495.1 |
| 62.5° | 3875.9 | 3358.7 | 2911.1 | 2558.8 | 2299.4 | 2120.2 | 1998.4 | 1951.0 |
| 65°   | 3622.4 | 2801.1 | 2201.7 | 1780.2 | 1497.4 | 1315.2 | 1194.6 | 1150.3 |
| 67.5° | 2653.3 | 1755.3 | 1172.4 | 840.3  | 615.7  | 491.1  | 441.7  | 421.1  |
| 70°   | 1191.0 | 618.0  | 378.8  | 295.8  | 255.0  | 234.1  | 225.0  | 221.8  |
| 72.5° | 359.0  | 259.8  | 219.1  | 197.7  | 181.5  | 171.2  | 163.7  | 162.9  |
| 75°   | 216.7  | 180.3  | 160.1  | 147.5  | 137.2  | 128.9  | 125.0  | 123.8  |
| 77.5° | 151.4  | 132.5  | 123.0  | 113.9  | 106.0  | 99.6   | 96.1   | 93.3   |
| 80°   | 106.4  | 97.3   | 92.9   | 87.8   | 82.6   | 76.7   | 71.6   | 69.2   |
| 82.5° | 71.2   | 69.2   | 69.2   | 66.0   | 61.7   | 56.1   | 45.9   | 43.5   |
| 85°   | 45.9   | 45.5   | 46.3   | 45.1   | 41.9   | 36.0   | 29.7   | 28.1   |
| 87.5° | 21.4   | 21.7   | 24.1   | 23.7   | 22.9   | 19.0   | 15.0   | 14.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)