

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: P200382

Luminaire Tested: **GWC-AF-02-LED-E1-5MQ-7060-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200382  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-E1-5MQ-7060-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10544 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 86  
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



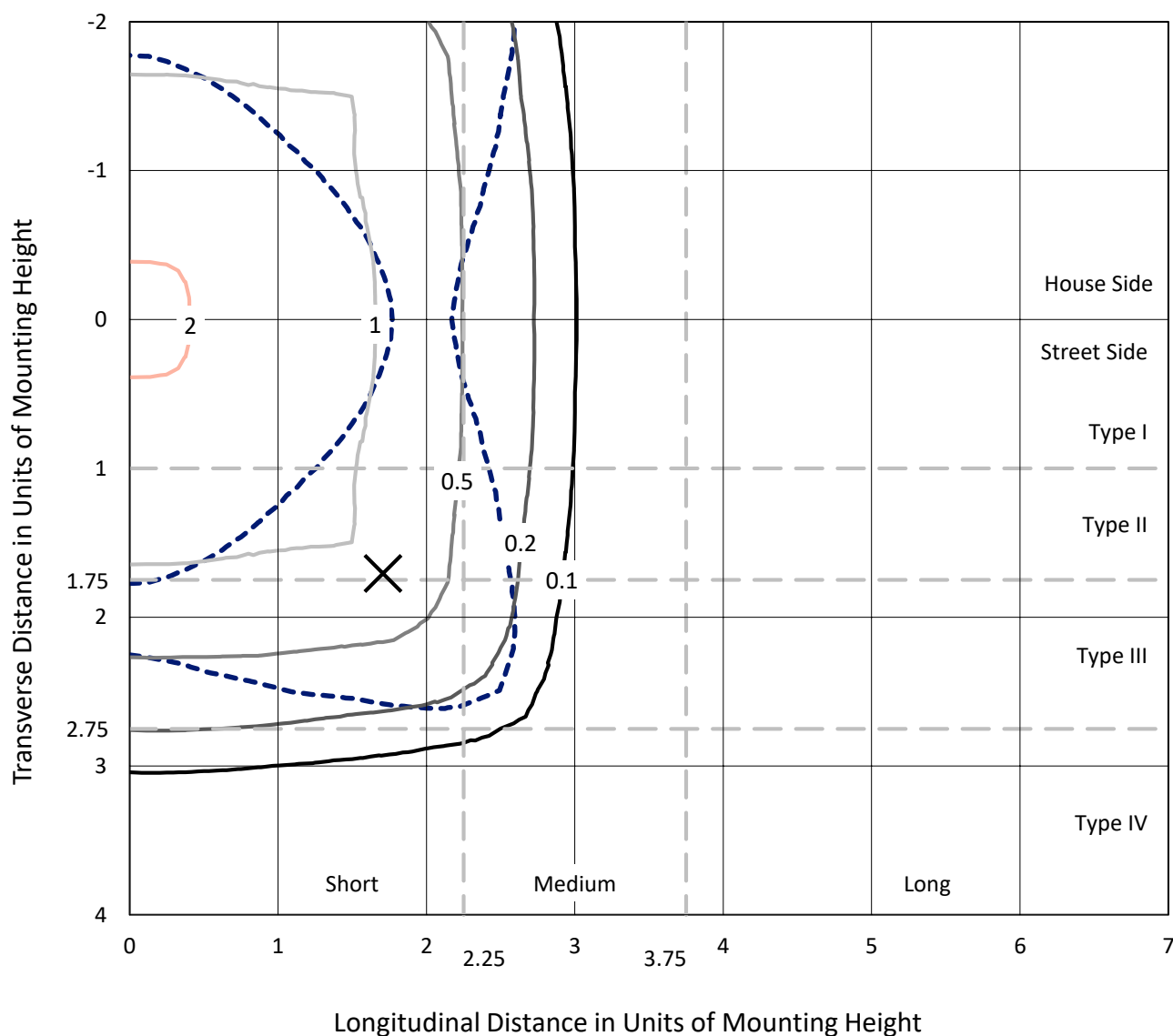
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

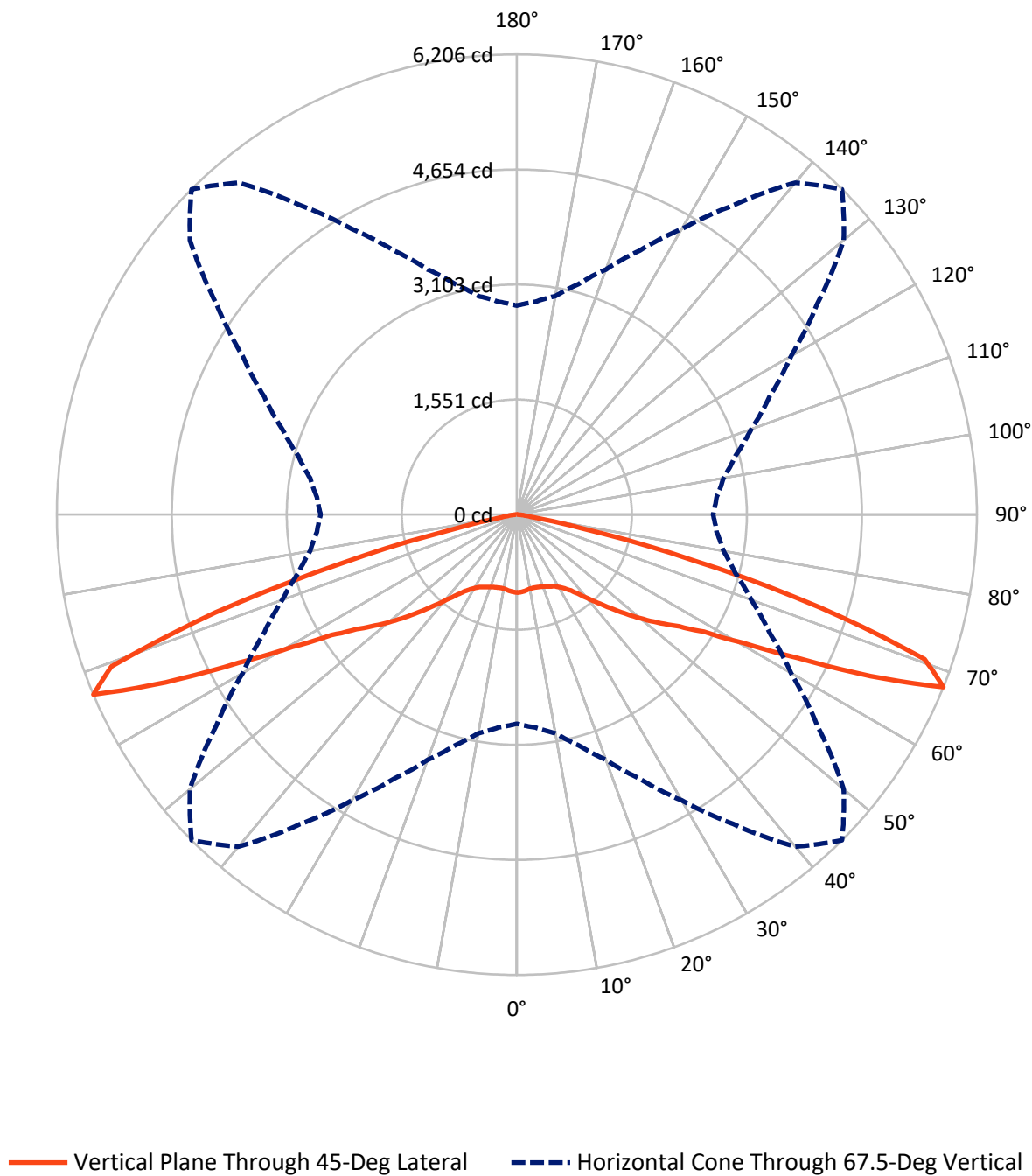


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5272.0   | 0.0    | 5272.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5272.0   | 0.0    | 5272.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10544.0  | 0.0    | 10544.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 98.3    | 0.9       |
| 10°-20°   | 285.4   | 2.7       |
| 20°-30°   | 485.1   | 4.6       |
| 30°-40°   | 793.1   | 7.5       |
| 40°-50°   | 1415.7  | 13.4      |
| 50°-60°   | 2387.0  | 22.6      |
| 60°-70°   | 3704.3  | 35.1      |
| 70°-80°   | 1301.5  | 12.3      |
| 80°-90°   | 73.6    | 0.7       |
| 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°    | 10544.0 | 100.0     |
| 0°-180°   | 10544.0 | 100.0     |

**Coefficient of Utilization**



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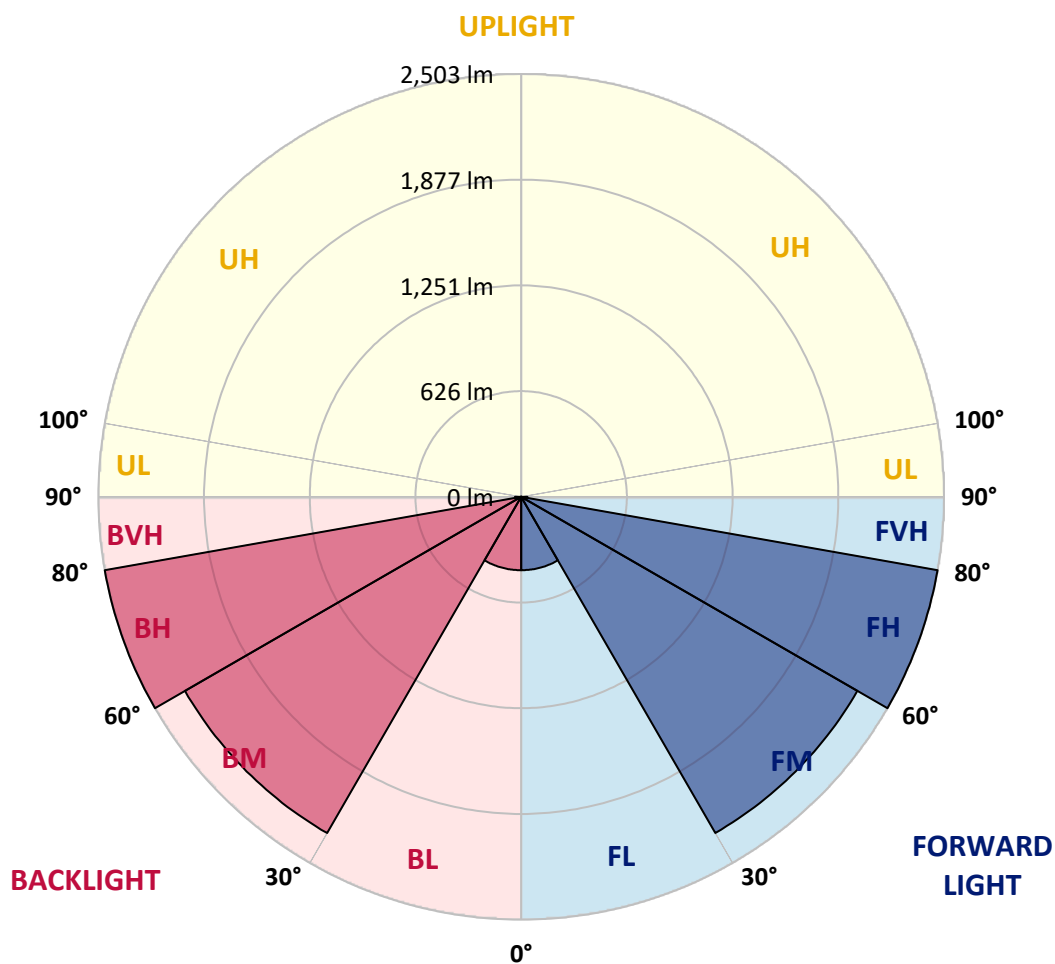
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 434.4  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 2297.9 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 2502.9 | 23.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 36.8   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 434.4  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2297.9 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2502.9 | 23.7      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 36.8   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 |
| 2.5°  | 1046.9 | 1047.8 | 1047.8 | 1047.8 | 1047.4 | 1047.4 | 1046.4 | 1047.4 | 1046.9 | 1045.4 | 1045.9 |
| 5°    | 1038.1 | 1039.1 | 1039.1 | 1038.6 | 1040.1 | 1039.6 | 1038.1 | 1039.1 | 1038.6 | 1037.7 | 1038.1 |
| 7.5°  | 1025.5 | 1027.0 | 1027.0 | 1026.5 | 1028.0 | 1027.5 | 1026.5 | 1027.0 | 1027.0 | 1025.5 | 1025.5 |
| 10°   | 1011.5 | 1012.4 | 1012.4 | 1012.0 | 1014.4 | 1014.4 | 1013.9 | 1015.4 | 1015.8 | 1014.4 | 1013.4 |
| 12.5° | 998.4  | 999.8  | 999.8  | 1001.8 | 1004.2 | 1005.2 | 1007.6 | 1009.5 | 1011.5 | 1011.0 | 1009.1 |
| 15°   | 990.6  | 991.6  | 993.5  | 996.0  | 999.8  | 1003.2 | 1007.1 | 1011.5 | 1015.4 | 1016.3 | 1013.4 |
| 17.5° | 985.8  | 987.2  | 990.1  | 993.5  | 998.9  | 1004.7 | 1010.5 | 1016.3 | 1021.7 | 1023.6 | 1020.2 |
| 20°   | 984.3  | 985.3  | 988.2  | 994.0  | 1001.3 | 1010.0 | 1018.3 | 1025.1 | 1032.3 | 1034.8 | 1032.3 |
| 22.5° | 987.2  | 989.2  | 992.6  | 999.4  | 1009.1 | 1020.2 | 1029.9 | 1039.1 | 1048.3 | 1052.7 | 1049.3 |
| 25°   | 1000.3 | 1002.3 | 1006.6 | 1015.4 | 1026.0 | 1037.7 | 1048.8 | 1059.5 | 1067.7 | 1072.1 | 1069.7 |
| 27.5° | 1024.6 | 1027.0 | 1032.3 | 1041.1 | 1052.7 | 1065.3 | 1077.4 | 1086.2 | 1092.9 | 1094.4 | 1091.5 |
| 30°   | 1060.9 | 1066.3 | 1072.6 | 1082.3 | 1095.8 | 1106.5 | 1118.6 | 1126.4 | 1134.6 | 1134.6 | 1132.2 |
| 32.5° | 1117.7 | 1123.0 | 1129.8 | 1139.0 | 1149.7 | 1161.3 | 1172.0 | 1178.8 | 1187.5 | 1188.0 | 1182.2 |
| 35°   | 1202.5 | 1204.9 | 1210.8 | 1216.6 | 1226.3 | 1236.5 | 1245.7 | 1250.0 | 1257.3 | 1257.8 | 1252.5 |
| 37.5° | 1314.5 | 1315.0 | 1318.9 | 1320.8 | 1329.6 | 1340.7 | 1349.4 | 1352.4 | 1359.1 | 1358.2 | 1352.8 |
| 40°   | 1445.0 | 1447.4 | 1448.8 | 1451.8 | 1461.0 | 1471.6 | 1480.9 | 1482.3 | 1489.6 | 1488.1 | 1481.3 |
| 42.5° | 1595.8 | 1596.7 | 1605.0 | 1609.3 | 1618.1 | 1623.4 | 1635.0 | 1636.5 | 1645.2 | 1641.3 | 1633.6 |
| 45°   | 1765.0 | 1773.7 | 1781.5 | 1790.2 | 1799.4 | 1805.7 | 1814.9 | 1813.0 | 1818.8 | 1813.0 | 1808.6 |
| 47.5° | 1942.9 | 1949.3 | 1966.7 | 1980.3 | 1995.3 | 2000.7 | 2013.7 | 2007.9 | 2013.7 | 2005.5 | 2004.0 |
| 50°   | 2138.8 | 2150.0 | 2165.0 | 2180.5 | 2196.5 | 2205.3 | 2222.2 | 2215.0 | 2222.7 | 2215.0 | 2210.6 |
| 52.5° | 2331.8 | 2334.7 | 2367.7 | 2390.5 | 2412.8 | 2423.0 | 2433.2 | 2429.8 | 2430.3 | 2429.8 | 2425.4 |
| 55°   | 2515.1 | 2521.9 | 2554.9 | 2585.9 | 2624.7 | 2653.3 | 2670.8 | 2668.8 | 2664.5 | 2660.1 | 2652.8 |
| 57.5° | 2721.7 | 2728.5 | 2766.3 | 2804.6 | 2848.7 | 2889.5 | 2924.8 | 2961.2 | 2975.3 | 2979.2 | 2963.2 |
| 60°   | 3001.0 | 3000.5 | 3050.9 | 3097.5 | 3160.5 | 3221.1 | 3298.7 | 3377.7 | 3468.4 | 3510.6 | 3454.8 |
| 62.5° | 3285.1 | 3296.8 | 3369.5 | 3451.9 | 3581.9 | 3708.4 | 3851.5 | 3992.1 | 4135.6 | 4252.5 | 4128.3 |
| 65°   | 3251.2 | 3295.8 | 3403.9 | 3590.6 | 3830.6 | 4115.7 | 4424.1 | 4750.5 | 5045.3 | 5248.0 | 5020.5 |
| 67.5° | 2817.7 | 2881.2 | 2991.3 | 3218.2 | 3518.4 | 3929.5 | 4447.4 | 5092.8 | 5842.9 | 6205.6 | 5756.1 |
| 70°   | 2042.4 | 2114.1 | 2229.5 | 2451.1 | 2748.3 | 3139.2 | 3701.6 | 4476.5 | 5469.5 | 5835.2 | 5340.1 |
| 72.5° | 1016.3 | 1055.1 | 1126.4 | 1267.5 | 1492.5 | 1809.6 | 2319.7 | 3064.5 | 3943.1 | 4278.7 | 3826.3 |
| 75°   | 345.2  | 363.2  | 375.3  | 421.4  | 492.6  | 617.3  | 870.9  | 1339.7 | 2043.8 | 2450.1 | 2014.7 |
| 77.5° | 199.3  | 199.8  | 208.0  | 216.3  | 228.4  | 242.0  | 275.9  | 362.2  | 626.5  | 889.8  | 648.3  |
| 80°   | 129.0  | 128.5  | 135.3  | 141.6  | 149.8  | 156.6  | 158.6  | 167.8  | 193.5  | 229.4  | 205.1  |
| 82.5° | 66.9   | 75.2   | 90.2   | 98.4   | 113.9  | 116.9  | 113.0  | 109.6  | 115.9  | 120.3  | 123.2  |
| 85°   | 36.9   | 32.0   | 48.0   | 62.1   | 68.9   | 69.8   | 69.8   | 65.9   | 68.4   | 66.9   | 72.7   |
| 87.5° | 17.0   | 15.5   | 18.9   | 30.5   | 32.5   | 27.6   | 29.1   | 25.7   | 18.4   | 17.9   | 20.4   |
| 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°    | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 | 1050.8 |
| 2.5°  | 1045.9 | 1046.4 | 1046.4 | 1047.8 | 1048.3 | 1049.3 | 1050.3 | 1050.8 |
| 5°    | 1037.7 | 1039.1 | 1038.1 | 1039.6 | 1039.6 | 1040.6 | 1040.6 | 1041.1 |
| 7.5°  | 1025.5 | 1027.0 | 1027.0 | 1027.0 | 1026.5 | 1028.0 | 1028.0 | 1028.0 |
| 10°   | 1012.9 | 1013.9 | 1013.4 | 1012.4 | 1011.5 | 1012.9 | 1012.4 | 1012.0 |
| 12.5° | 1009.1 | 1006.6 | 1004.7 | 1003.7 | 1001.8 | 1002.3 | 1000.8 | 1000.8 |
| 15°   | 1011.5 | 1007.1 | 1003.7 | 1002.3 | 1000.3 | 999.4  | 998.4  | 998.9  |
| 17.5° | 1017.8 | 1012.4 | 1008.1 | 1005.7 | 1003.2 | 1001.8 | 999.8  | 1000.3 |
| 20°   | 1028.9 | 1022.6 | 1016.3 | 1011.5 | 1007.1 | 1004.7 | 1003.2 | 1002.8 |
| 22.5° | 1045.4 | 1036.2 | 1027.0 | 1019.7 | 1013.9 | 1010.5 | 1009.1 | 1008.1 |
| 25°   | 1064.3 | 1054.1 | 1043.5 | 1035.2 | 1029.4 | 1025.1 | 1022.1 | 1022.1 |
| 27.5° | 1088.1 | 1079.8 | 1070.1 | 1060.5 | 1055.1 | 1050.8 | 1048.8 | 1047.8 |
| 30°   | 1127.9 | 1120.1 | 1112.3 | 1103.1 | 1096.3 | 1092.0 | 1088.6 | 1085.7 |
| 32.5° | 1178.8 | 1172.5 | 1166.2 | 1159.4 | 1153.1 | 1147.2 | 1141.9 | 1139.5 |
| 35°   | 1250.5 | 1245.7 | 1241.3 | 1233.6 | 1231.1 | 1227.7 | 1224.8 | 1222.4 |
| 37.5° | 1349.4 | 1347.5 | 1347.5 | 1339.3 | 1337.3 | 1335.9 | 1333.0 | 1333.4 |
| 40°   | 1479.4 | 1481.3 | 1478.9 | 1476.0 | 1474.5 | 1470.7 | 1470.7 | 1474.1 |
| 42.5° | 1633.1 | 1634.6 | 1639.9 | 1635.0 | 1640.4 | 1635.5 | 1632.6 | 1635.0 |
| 45°   | 1811.5 | 1816.9 | 1827.5 | 1822.7 | 1826.1 | 1817.8 | 1807.7 | 1808.2 |
| 47.5° | 2011.8 | 2016.7 | 2021.0 | 2017.6 | 2018.1 | 2004.5 | 1991.0 | 1987.6 |
| 50°   | 2219.8 | 2221.8 | 2224.2 | 2219.3 | 2220.3 | 2205.3 | 2189.8 | 2190.2 |
| 52.5° | 2425.4 | 2434.6 | 2444.3 | 2431.2 | 2428.3 | 2411.4 | 2389.5 | 2380.8 |
| 55°   | 2660.6 | 2673.7 | 2662.5 | 2639.7 | 2616.9 | 2594.2 | 2565.5 | 2560.7 |
| 57.5° | 2950.5 | 2928.2 | 2893.3 | 2850.2 | 2818.7 | 2786.7 | 2757.6 | 2745.4 |
| 60°   | 3354.0 | 3270.1 | 3207.1 | 3143.0 | 3102.8 | 3063.5 | 3025.2 | 3019.4 |
| 62.5° | 3924.2 | 3779.2 | 3653.6 | 3521.3 | 3413.1 | 3328.8 | 3261.4 | 3242.5 |
| 65°   | 4638.9 | 4296.1 | 3998.9 | 3721.5 | 3480.5 | 3298.7 | 3184.3 | 3133.8 |
| 67.5° | 4946.4 | 4269.4 | 3759.8 | 3366.1 | 3050.9 | 2830.8 | 2707.1 | 2645.6 |
| 70°   | 4346.5 | 3540.7 | 2986.4 | 2592.2 | 2305.2 | 2070.5 | 1958.5 | 1892.5 |
| 72.5° | 2990.3 | 2252.3 | 1781.0 | 1453.7 | 1224.3 | 1028.0 | 950.4  | 944.6  |
| 75°   | 1342.7 | 889.3  | 612.9  | 472.3  | 397.6  | 345.7  | 329.7  | 317.6  |
| 77.5° | 375.8  | 277.8  | 247.8  | 231.8  | 216.3  | 198.3  | 191.5  | 193.0  |
| 80°   | 182.8  | 172.6  | 165.8  | 155.6  | 141.6  | 126.6  | 119.8  | 122.7  |
| 82.5° | 121.2  | 119.8  | 124.1  | 116.9  | 96.5   | 81.9   | 68.9   | 63.0   |
| 85°   | 73.7   | 74.7   | 76.1   | 76.6   | 65.0   | 45.6   | 31.0   | 34.9   |
| 87.5° | 29.1   | 33.5   | 36.4   | 37.8   | 35.4   | 21.8   | 17.5   | 17.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)