

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: P270126

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270126  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
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-SL4-7027-800-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6957.5 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

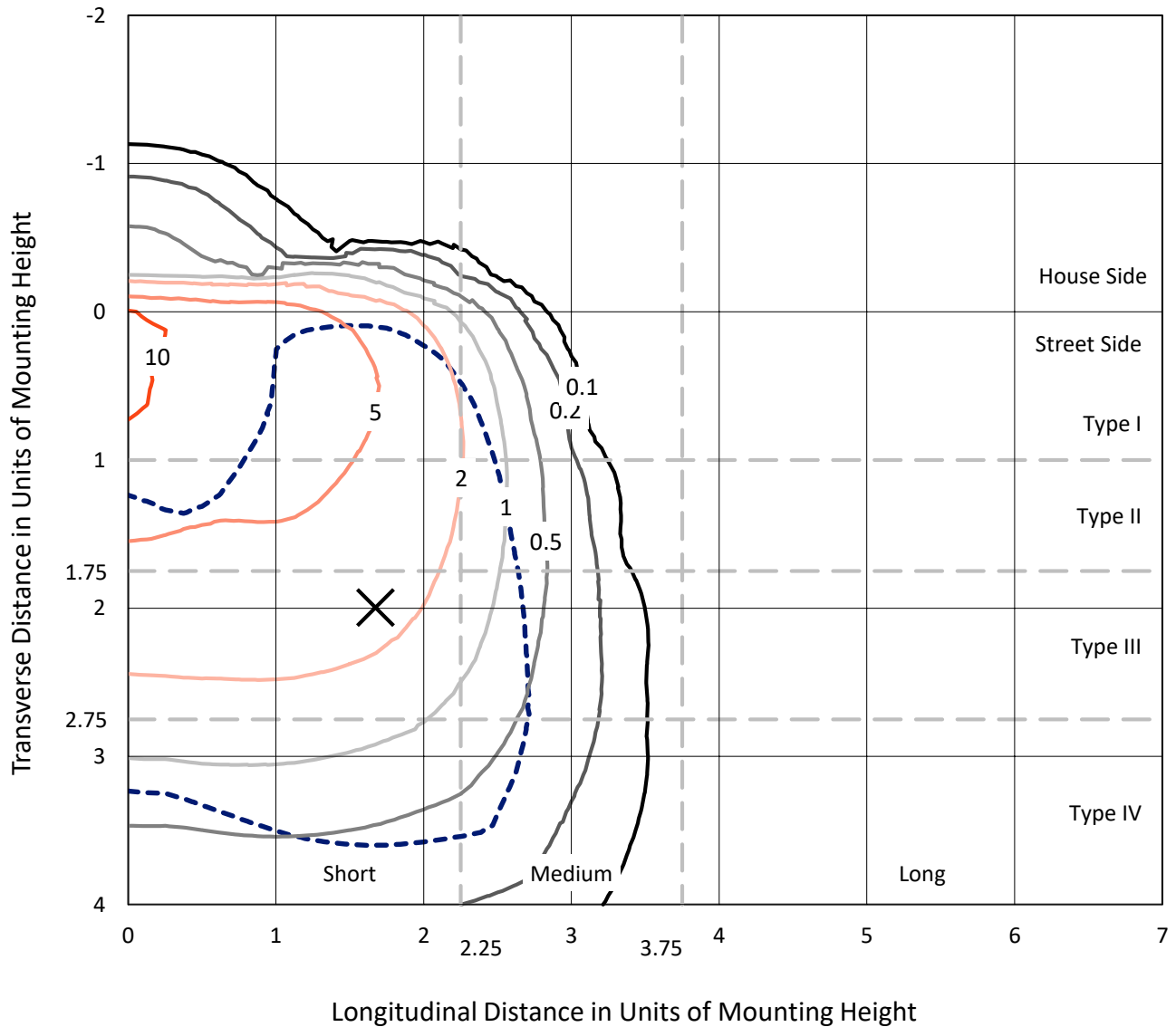
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

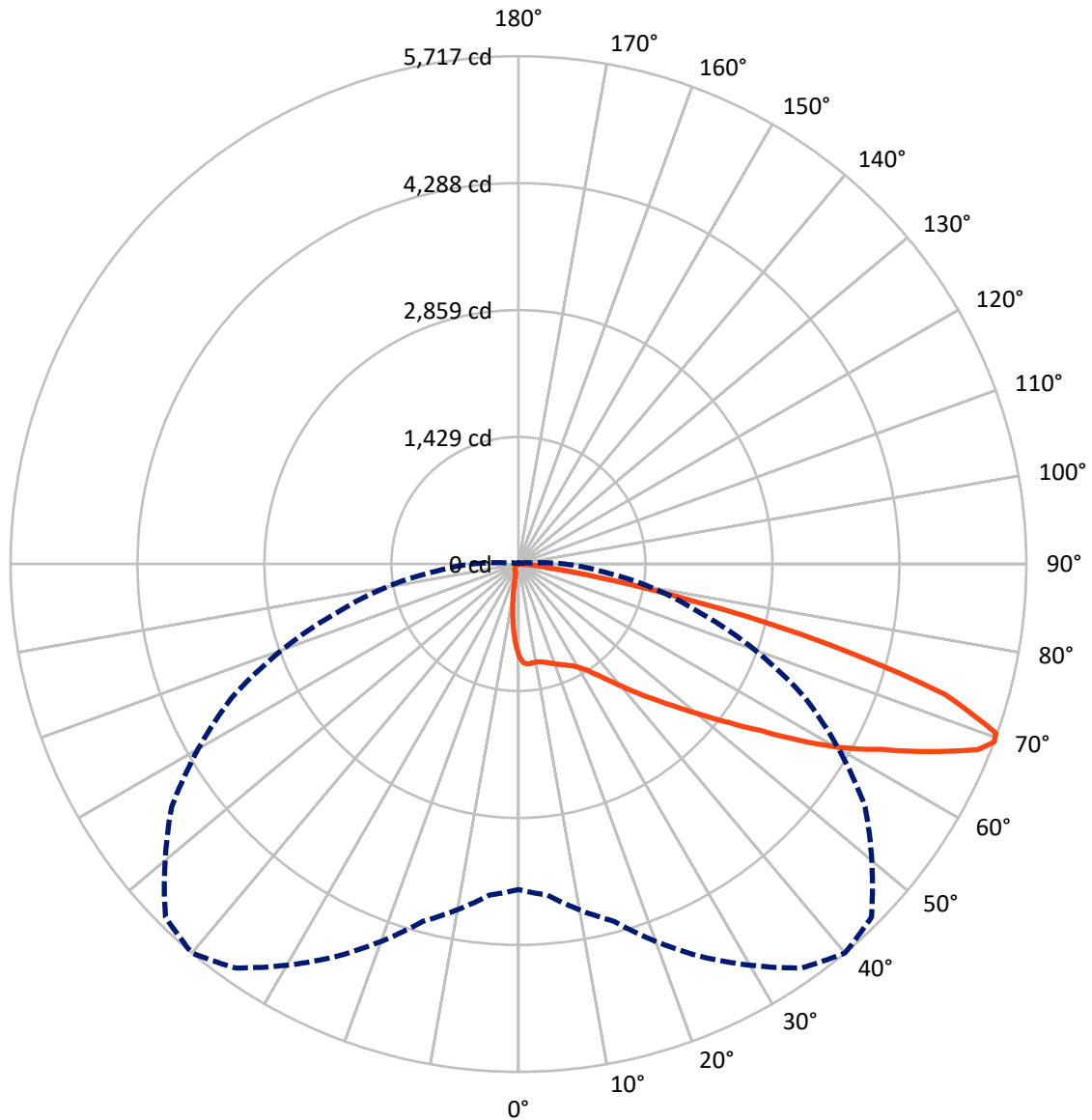


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 407.1    | 0.0    | 407.1  |
|                    | % Fixture | 5.9      | 0.0    | 5.9    |
| <b>Street Side</b> | Lumens    | 6550.4   | 0.0    | 6550.4 |
|                    | % Fixture | 94.1     | 0.0    | 94.1   |
| <b>Total</b>       | Lumens    | 6957.5   | 0.0    | 6957.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 84.3   | 1.2       |
| 10°-20°   | 207.3  | 3.0       |
| 20°-30°   | 349.1  | 5.0       |
| 30°-40°   | 571.5  | 8.2       |
| 40°-50°   | 989.5  | 14.2      |
| 50°-60°   | 1558.6 | 22.4      |
| 60°-70°   | 2035.5 | 29.3      |
| 70°-80°   | 1048.4 | 15.1      |
| 80°-90°   | 113.4  | 1.6       |
| 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°    | 6957.5 | 100.0     |
| 0°-180°   | 6957.5 | 100.0     |



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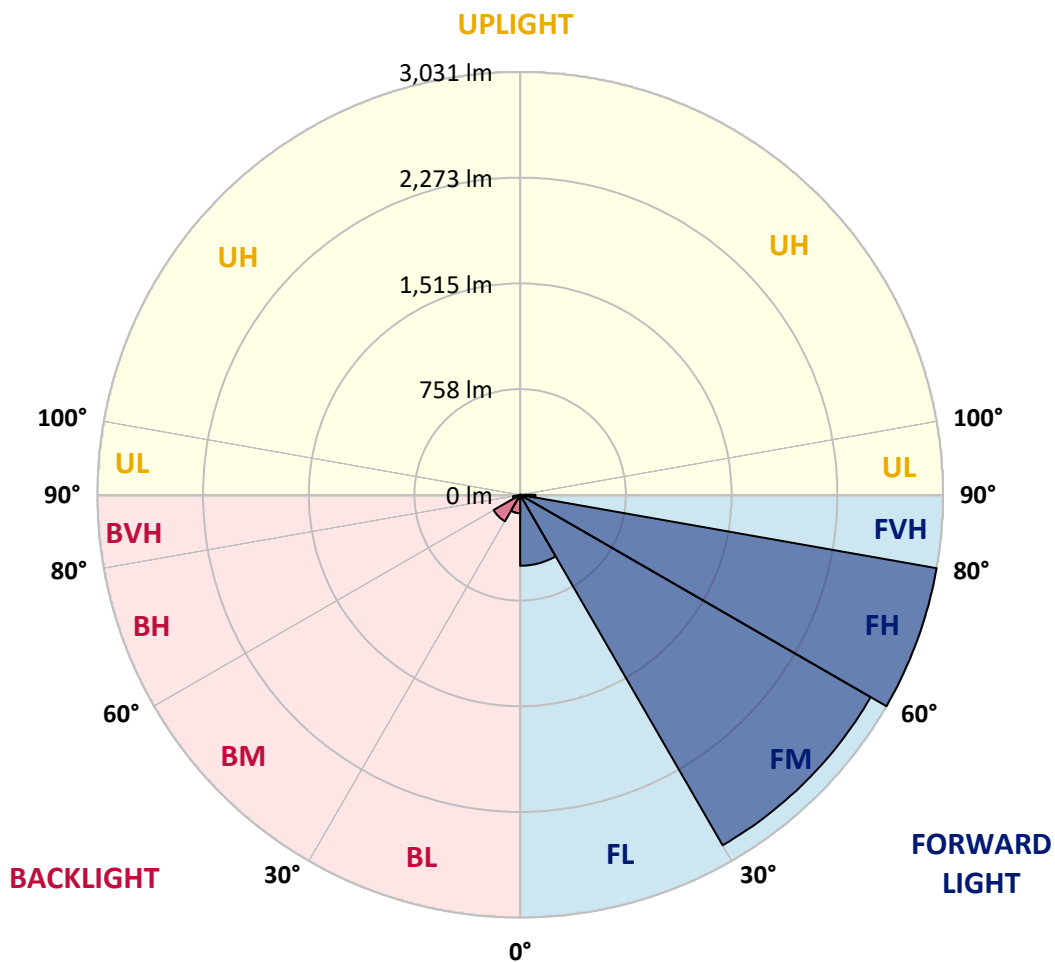
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 508.8  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 2900.8 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 3031.0 | 43.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 109.8  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 131.9  | 1.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 218.8  | 3.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 52.9   | 0.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 3.6    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 |
| 2.5°  | 1141.4 | 1135.1 | 1131.4 | 1126.5 | 1120.3 | 1114.9 | 1112.7 | 1097.5 | 1082.9 | 1063.1 | 1040.3 |
| 5°    | 1162.4 | 1160.4 | 1153.8 | 1147.2 | 1139.7 | 1131.4 | 1126.8 | 1108.6 | 1087.9 | 1058.9 | 1019.1 |
| 7.5°  | 1164.6 | 1162.0 | 1153.8 | 1144.7 | 1134.4 | 1124.4 | 1116.5 | 1098.3 | 1079.3 | 1049.8 | 1001.4 |
| 10°   | 1161.3 | 1158.3 | 1152.2 | 1142.2 | 1129.3 | 1119.8 | 1112.0 | 1094.5 | 1078.4 | 1051.9 | 998.0  |
| 12.5° | 1157.6 | 1154.6 | 1151.7 | 1146.7 | 1135.5 | 1129.0 | 1122.3 | 1105.7 | 1091.3 | 1068.9 | 1010.1 |
| 15°   | 1161.3 | 1159.5 | 1162.9 | 1160.8 | 1154.6 | 1148.8 | 1142.2 | 1127.3 | 1114.0 | 1095.4 | 1032.0 |
| 17.5° | 1177.0 | 1177.0 | 1187.4 | 1188.6 | 1182.8 | 1174.5 | 1164.9 | 1150.1 | 1138.9 | 1123.2 | 1058.1 |
| 20°   | 1213.9 | 1212.6 | 1225.8 | 1228.3 | 1214.2 | 1201.4 | 1187.4 | 1169.1 | 1160.4 | 1150.5 | 1083.8 |
| 22.5° | 1277.2 | 1271.4 | 1279.3 | 1276.8 | 1249.0 | 1229.2 | 1211.7 | 1189.4 | 1184.9 | 1180.3 | 1112.4 |
| 25°   | 1359.7 | 1356.3 | 1361.7 | 1337.3 | 1288.3 | 1261.4 | 1240.8 | 1215.5 | 1215.5 | 1220.1 | 1144.7 |
| 27.5° | 1479.3 | 1466.8 | 1448.6 | 1405.6 | 1332.3 | 1297.9 | 1275.5 | 1248.6 | 1255.7 | 1272.6 | 1187.4 |
| 30°   | 1601.9 | 1588.2 | 1546.3 | 1480.1 | 1385.7 | 1349.7 | 1323.6 | 1295.4 | 1312.0 | 1343.1 | 1244.4 |
| 32.5° | 1722.9 | 1707.5 | 1648.2 | 1564.6 | 1462.4 | 1426.3 | 1401.1 | 1370.0 | 1397.7 | 1449.9 | 1328.1 |
| 35°   | 1840.1 | 1826.3 | 1758.1 | 1659.4 | 1564.2 | 1534.4 | 1511.2 | 1484.4 | 1519.9 | 1592.8 | 1446.2 |
| 37.5° | 1971.8 | 1956.8 | 1873.5 | 1766.7 | 1688.0 | 1666.4 | 1649.5 | 1622.6 | 1684.7 | 1791.5 | 1610.7 |
| 40°   | 2133.7 | 2108.4 | 1996.2 | 1889.8 | 1831.3 | 1821.0 | 1809.4 | 1805.6 | 1902.1 | 2050.0 | 1829.7 |
| 42.5° | 2319.2 | 2277.8 | 2124.5 | 2019.3 | 1988.7 | 1996.2 | 1993.2 | 2009.8 | 2174.2 | 2371.4 | 2096.3 |
| 45°   | 2504.7 | 2451.3 | 2267.4 | 2157.7 | 2161.9 | 2187.9 | 2204.0 | 2270.3 | 2515.1 | 2740.0 | 2383.4 |
| 47.5° | 2662.1 | 2609.5 | 2404.5 | 2307.1 | 2356.8 | 2408.3 | 2452.2 | 2577.6 | 2865.4 | 3102.7 | 2606.6 |
| 50°   | 2796.7 | 2747.0 | 2549.9 | 2471.5 | 2583.3 | 2666.3 | 2737.5 | 2923.4 | 3242.3 | 3379.0 | 2763.1 |
| 52.5° | 2906.8 | 2873.7 | 2700.6 | 2660.0 | 2842.2 | 2963.6 | 3067.9 | 3290.7 | 3576.1 | 3603.4 | 2884.9 |
| 55°   | 3014.1 | 2990.5 | 2862.5 | 2884.0 | 3146.1 | 3311.4 | 3443.6 | 3680.4 | 3863.5 | 3790.6 | 3001.6 |
| 57.5° | 3137.5 | 3116.0 | 3047.2 | 3168.1 | 3545.8 | 3753.7 | 3897.9 | 4025.8 | 4116.5 | 3981.9 | 3111.8 |
| 60°   | 3263.4 | 3251.0 | 3252.7 | 3483.8 | 4004.7 | 4204.3 | 4283.8 | 4317.0 | 4365.0 | 4162.0 | 3118.1 |
| 62.5° | 3383.6 | 3407.2 | 3487.4 | 3834.9 | 4444.1 | 4597.4 | 4637.5 | 4670.2 | 4613.9 | 4190.7 | 2880.8 |
| 65°   | 3586.8 | 3625.4 | 3817.2 | 4304.9 | 4927.4 | 5091.4 | 5132.8 | 5020.5 | 4653.2 | 3821.3 | 2343.2 |
| 67.5° | 3686.3 | 3756.6 | 4098.8 | 4743.1 | 5396.2 | 5578.5 | 5563.1 | 5043.4 | 4175.8 | 2913.8 | 1503.7 |
| 69°   | 3665.5 | 3740.5 | 4163.8 | 4877.3 | 5551.9 | 5717.2 | 5619.9 | 4764.7 | 3557.5 | 2110.9 | 923.1  |
| 70°   | 3583.5 | 3659.3 | 4130.2 | 4872.4 | 5571.8 | 5702.7 | 5514.7 | 4420.6 | 3007.9 | 1543.5 | 577.3  |
| 72.5° | 2992.5 | 3058.0 | 3666.8 | 4403.9 | 5132.8 | 5026.4 | 4613.5 | 3062.5 | 1465.6 | 420.4  | 130.1  |
| 75°   | 1842.1 | 1878.5 | 2631.0 | 3317.6 | 3876.7 | 3603.4 | 3073.7 | 1523.6 | 436.8  | 118.8  | 72.0   |
| 77.5° | 973.2  | 989.8  | 1440.4 | 1955.5 | 2457.5 | 2033.4 | 1575.4 | 594.2  | 201.3  | 74.6   | 52.2   |
| 80°   | 575.3  | 587.7  | 775.6  | 894.1  | 1063.6 | 888.3  | 630.0  | 364.8  | 144.2  | 46.8   | 46.4   |
| 82.5° | 329.2  | 337.1  | 562.4  | 497.0  | 419.1  | 357.9  | 313.5  | 345.8  | 86.5   | 31.4   | 48.1   |
| 85°   | 120.9  | 122.6  | 316.4  | 378.1  | 249.3  | 148.3  | 155.8  | 286.6  | 23.2   | 19.9   | 37.7   |
| 87.5° | 56.3   | 55.1   | 162.8  | 231.5  | 145.8  | 94.0   | 121.4  | 62.9   | 9.1    | 12.8   | 10.3   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 | 1039.5 |
| 2.5°  | 1027.1 | 1011.8 | 983.9  | 955.3  | 926.4  | 904.1  | 882.1  | 864.7  | 858.9  | 848.2  | 849.0  |
| 5°    | 995.6  | 967.5  | 909.4  | 850.6  | 789.3  | 738.8  | 691.2  | 652.7  | 634.0  | 615.0  | 615.0  |
| 7.5°  | 968.2  | 927.2  | 836.5  | 740.9  | 641.9  | 558.7  | 483.6  | 427.4  | 396.3  | 371.4  | 371.1  |
| 10°   | 957.9  | 902.4  | 775.6  | 638.6  | 500.6  | 387.2  | 298.1  | 241.0  | 211.6  | 192.6  | 191.7  |
| 12.5° | 962.4  | 893.7  | 728.9  | 544.2  | 371.1  | 248.9  | 172.7  | 135.8  | 123.4  | 117.6  | 117.6  |
| 15°   | 975.7  | 891.2  | 682.1  | 451.8  | 262.1  | 155.8  | 114.7  | 104.7  | 103.9  | 103.9  | 103.9  |
| 17.5° | 991.8  | 892.1  | 634.0  | 361.9  | 178.5  | 111.5  | 99.0   | 97.7   | 98.6   | 98.6   | 98.6   |
| 20°   | 1008.4 | 892.5  | 582.3  | 278.7  | 125.9  | 96.8   | 93.2   | 92.7   | 93.6   | 93.6   | 94.0   |
| 22.5° | 1028.7 | 894.5  | 530.4  | 208.3  | 103.9  | 91.5   | 88.7   | 88.7   | 89.0   | 89.0   | 88.7   |
| 25°   | 1051.9 | 898.7  | 476.6  | 154.5  | 94.9   | 87.8   | 85.2   | 84.9   | 85.2   | 84.9   | 84.5   |
| 27.5° | 1080.9 | 904.4  | 416.6  | 120.9  | 90.7   | 84.1   | 82.0   | 82.0   | 81.7   | 81.1   | 80.8   |
| 30°   | 1117.4 | 911.1  | 349.1  | 102.7  | 86.5   | 80.8   | 78.7   | 78.2   | 77.9   | 77.0   | 77.0   |
| 32.5° | 1172.8 | 925.6  | 282.4  | 93.2   | 82.0   | 76.3   | 74.6   | 74.6   | 73.8   | 72.9   | 72.5   |
| 35°   | 1258.2 | 954.2  | 222.8  | 87.4   | 77.0   | 71.2   | 69.2   | 69.2   | 68.3   | 67.9   | 67.6   |
| 37.5° | 1376.2 | 997.7  | 173.1  | 82.0   | 72.0   | 65.8   | 63.8   | 63.4   | 62.5   | 61.7   | 61.3   |
| 40°   | 1533.1 | 1051.5 | 136.3  | 77.0   | 67.0   | 60.5   | 58.8   | 58.0   | 56.3   | 55.1   | 55.1   |
| 42.5° | 1730.2 | 1112.7 | 110.6  | 71.7   | 61.3   | 55.5   | 54.3   | 53.0   | 50.0   | 48.8   | 48.4   |
| 45°   | 1936.6 | 1167.9 | 93.6   | 65.4   | 55.5   | 50.6   | 49.7   | 47.7   | 43.9   | 42.7   | 42.7   |
| 47.5° | 2085.2 | 1180.6 | 82.4   | 59.6   | 50.0   | 45.2   | 44.7   | 41.0   | 37.7   | 36.8   | 36.5   |
| 50°   | 2177.9 | 1155.4 | 73.3   | 53.8   | 45.2   | 40.2   | 38.9   | 34.3   | 32.3   | 31.4   | 31.1   |
| 52.5° | 2240.5 | 1110.3 | 65.8   | 48.8   | 40.6   | 35.6   | 32.7   | 29.5   | 27.8   | 26.9   | 26.9   |
| 55°   | 2290.7 | 1046.5 | 58.4   | 44.3   | 36.8   | 32.0   | 27.8   | 25.2   | 23.6   | 22.7   | 22.7   |
| 57.5° | 2304.6 | 959.9  | 50.9   | 40.6   | 33.1   | 28.2   | 23.6   | 21.9   | 19.9   | 19.5   | 19.5   |
| 60°   | 2202.4 | 803.8  | 45.2   | 36.0   | 29.8   | 24.4   | 20.8   | 18.6   | 16.6   | 16.1   | 15.7   |
| 62.5° | 1932.8 | 622.1  | 39.8   | 32.0   | 26.1   | 21.1   | 17.9   | 15.4   | 13.7   | 13.7   | 13.7   |
| 65°   | 1474.3 | 417.0  | 34.9   | 27.8   | 22.7   | 17.9   | 15.4   | 12.5   | 11.6   | 11.6   | 11.9   |
| 67.5° | 882.6  | 226.9  | 29.8   | 23.6   | 19.5   | 14.9   | 12.8   | 10.8   | 10.3   | 10.8   | 10.8   |
| 69°   | 517.2  | 133.3  | 26.9   | 21.1   | 17.0   | 13.2   | 11.2   | 9.5    | 10.3   | 10.8   | 10.8   |
| 70°   | 319.3  | 89.8   | 24.9   | 19.0   | 15.4   | 11.9   | 10.3   | 9.1    | 10.0   | 10.3   | 10.3   |
| 72.5° | 89.0   | 46.4   | 19.9   | 14.9   | 12.5   | 10.0   | 8.3    | 8.3    | 9.5    | 10.0   | 10.0   |
| 75°   | 58.0   | 34.3   | 15.4   | 11.2   | 9.5    | 7.9    | 7.0    | 7.9    | 9.1    | 9.5    | 9.5    |
| 77.5° | 48.1   | 28.2   | 12.5   | 9.1    | 7.9    | 7.5    | 6.6    | 7.0    | 8.3    | 8.7    | 8.7    |
| 80°   | 43.9   | 19.9   | 10.0   | 8.3    | 7.0    | 6.6    | 6.2    | 5.7    | 7.5    | 7.9    | 7.9    |
| 82.5° | 41.9   | 15.7   | 8.7    | 7.5    | 6.6    | 5.7    | 5.4    | 5.7    | 6.6    | 7.0    | 7.5    |
| 85°   | 26.1   | 10.3   | 7.9    | 7.0    | 5.7    | 5.4    | 5.4    | 5.4    | 6.2    | 6.6    | 6.6    |
| 87.5° | 9.5    | 8.3    | 7.0    | 5.7    | 5.0    | 5.0    | 5.0    | 5.0    | 5.4    | 6.2    | 6.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)