

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: P270235

Luminaire Tested: **GWC-AF-02-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT-7027-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8772.5 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

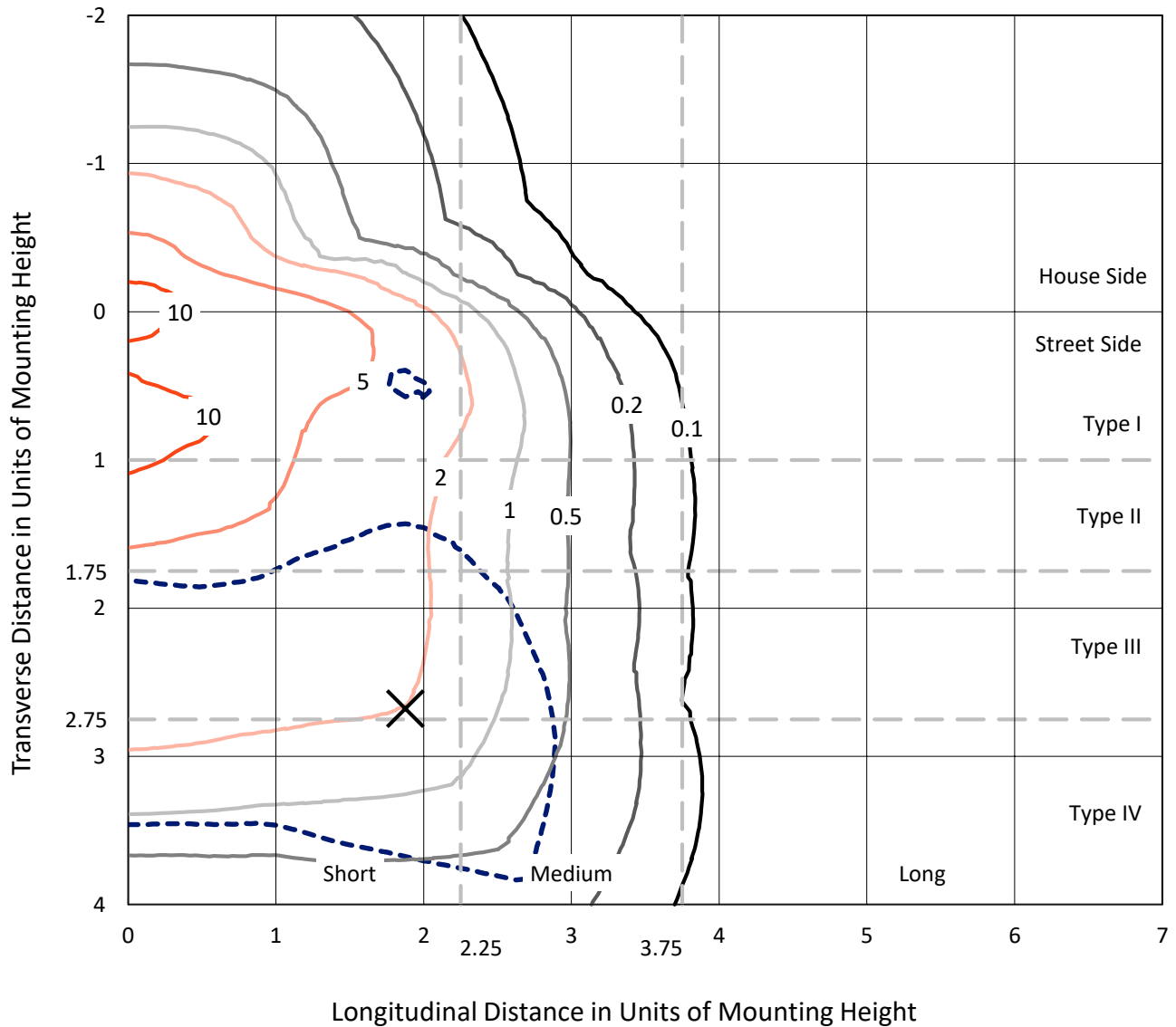
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

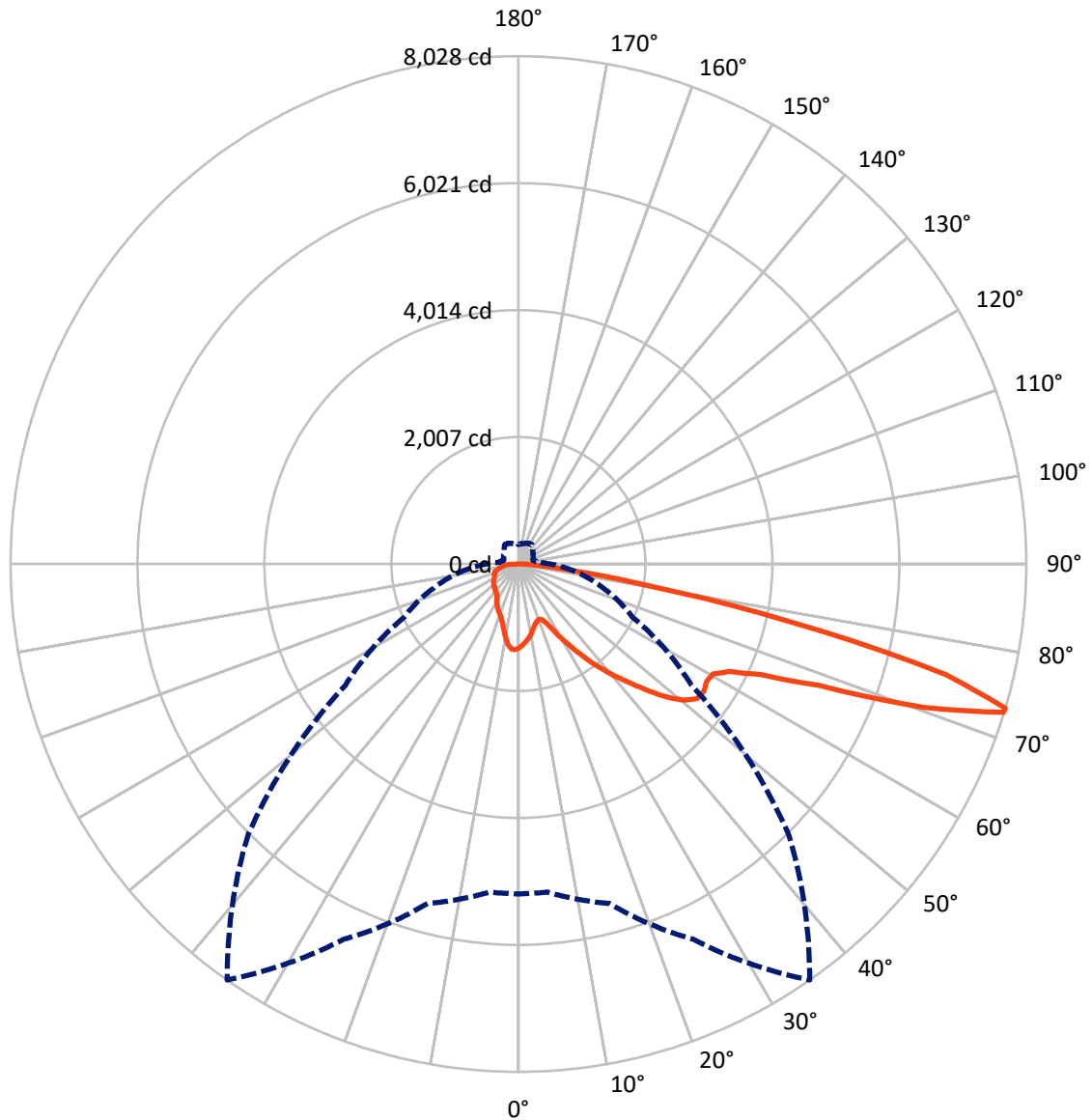
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1673.2   | 0.0    | 1673.2 |
|                    | % Fixture | 19.1     | 0.0    | 19.1   |
| <b>Street Side</b> | Lumens    | 7099.3   | 0.0    | 7099.3 |
|                    | % Fixture | 80.9     | 0.0    | 80.9   |
| <b>Total</b>       | Lumens    | 8772.5   | 0.0    | 8772.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.9  | 1.4       |
| 10°-20°   | 299.2  | 3.4       |
| 20°-30°   | 483.6  | 5.5       |
| 30°-40°   | 811.0  | 9.2       |
| 40°-50°   | 1250.1 | 14.3      |
| 50°-60°   | 1677.2 | 19.1      |
| 60°-70°   | 2234.3 | 25.5      |
| 70°-80°   | 1704.1 | 19.4      |
| 80°-90°   | 193.2  | 2.2       |
| 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°    | 8772.5 | 100.0     |
| 0°-180°   | 8772.5 | 100.0     |



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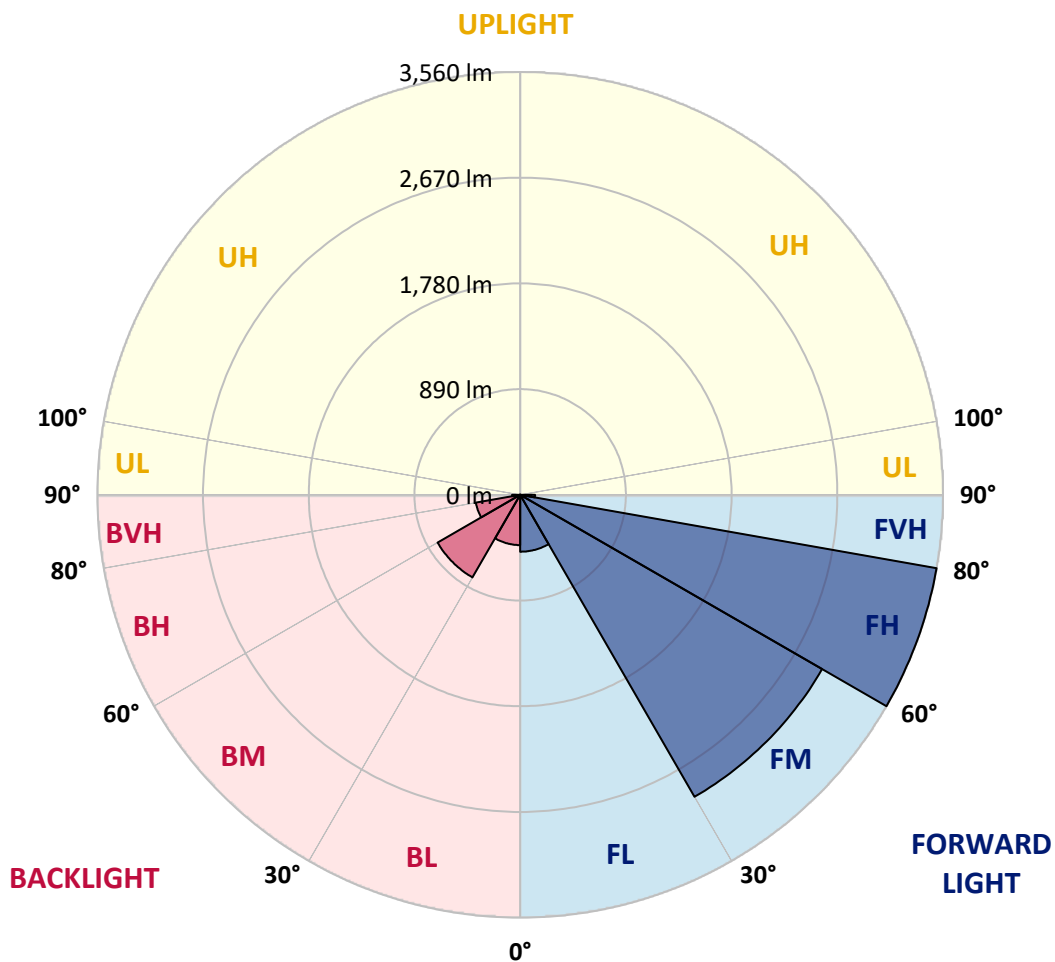
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 479.3  | 5.5       |                         |      |         |
| FM (30°-60°)   | 2935.3 | 33.5      |                         |      |         |
| FH (60°-80°)   | 3559.9 | 40.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 124.8  | 1.4       |                         |      | G2/225  |
| BL (0°-30°)    | 423.4  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 802.9  | 9.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 378.5  | 4.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 68.3   | 0.8       |                         |      | G1/100  |
| 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°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 |
| 2.5°  | 1271.8 | 1274.3 | 1271.5 | 1275.1 | 1281.5 | 1288.2 | 1292.9 | 1299.6 | 1307.3 | 1317.8 | 1320.2 |
| 5°    | 1212.1 | 1215.8 | 1215.8 | 1222.6 | 1234.7 | 1245.7 | 1255.8 | 1266.7 | 1282.8 | 1300.8 | 1308.0 |
| 7.5°  | 1146.2 | 1148.4 | 1152.2 | 1162.2 | 1180.0 | 1195.6 | 1209.8 | 1227.5 | 1249.5 | 1273.4 | 1286.2 |
| 10°   | 1067.0 | 1070.1 | 1075.9 | 1090.3 | 1114.3 | 1135.7 | 1156.4 | 1180.8 | 1208.6 | 1238.6 | 1254.6 |
| 12.5° | 1011.0 | 1010.2 | 1012.7 | 1023.3 | 1044.3 | 1070.4 | 1100.3 | 1131.5 | 1165.6 | 1200.7 | 1220.0 |
| 15°   | 992.1  | 987.4  | 977.7  | 975.2  | 986.6  | 1012.7 | 1047.2 | 1085.6 | 1126.5 | 1168.5 | 1192.6 |
| 17.5° | 1003.9 | 996.0  | 969.4  | 950.0  | 948.3  | 968.1  | 1004.8 | 1047.8 | 1094.9 | 1146.2 | 1176.2 |
| 20°   | 1078.1 | 1059.0 | 993.7  | 948.7  | 933.1  | 942.9  | 974.8  | 1020.4 | 1075.9 | 1144.1 | 1182.4 |
| 22.5° | 1255.4 | 1227.5 | 1088.9 | 1005.2 | 952.6  | 940.6  | 964.7  | 1013.2 | 1078.1 | 1170.3 | 1219.1 |
| 25°   | 1513.6 | 1473.9 | 1252.4 | 1145.9 | 1037.2 | 974.4  | 980.0  | 1029.5 | 1107.9 | 1230.9 | 1290.0 |
| 27.5° | 1717.5 | 1691.8 | 1466.0 | 1344.3 | 1191.3 | 1065.4 | 1029.2 | 1070.9 | 1169.1 | 1330.4 | 1390.5 |
| 30°   | 1838.8 | 1823.2 | 1694.4 | 1569.2 | 1388.2 | 1210.2 | 1123.5 | 1148.4 | 1264.6 | 1468.1 | 1517.9 |
| 32.5° | 1979.5 | 1970.3 | 1907.1 | 1792.1 | 1600.4 | 1400.6 | 1273.1 | 1264.3 | 1392.7 | 1633.7 | 1656.5 |
| 35°   | 2125.3 | 2122.3 | 2085.2 | 2002.7 | 1828.3 | 1651.9 | 1471.5 | 1411.6 | 1532.1 | 1805.6 | 1791.2 |
| 37.5° | 2260.9 | 2255.9 | 2234.4 | 2186.4 | 2066.7 | 1921.4 | 1673.7 | 1563.0 | 1682.5 | 1969.9 | 1906.3 |
| 40°   | 2510.8 | 2471.1 | 2397.4 | 2361.1 | 2307.7 | 2148.4 | 1834.2 | 1704.1 | 1838.4 | 2126.6 | 2005.6 |
| 42.5° | 2815.3 | 2750.9 | 2613.4 | 2563.9 | 2556.2 | 2327.5 | 1943.8 | 1840.9 | 1995.6 | 2282.1 | 2103.4 |
| 45°   | 3055.0 | 2994.4 | 2876.0 | 2813.2 | 2841.0 | 2489.7 | 2053.6 | 1987.1 | 2157.3 | 2445.0 | 2204.1 |
| 47.5° | 3310.8 | 3215.6 | 3058.8 | 3077.8 | 3138.4 | 2643.1 | 2165.8 | 2144.3 | 2334.7 | 2627.5 | 2329.1 |
| 50°   | 3320.0 | 3247.2 | 3178.5 | 3291.7 | 3386.2 | 2784.1 | 2305.9 | 2309.0 | 2551.6 | 2857.0 | 2495.6 |
| 52.5° | 3127.4 | 3111.9 | 3221.1 | 3399.1 | 3535.3 | 2895.7 | 2465.7 | 2479.1 | 2829.2 | 3120.7 | 2678.3 |
| 55°   | 3060.0 | 3042.4 | 3168.3 | 3361.6 | 3555.5 | 2988.0 | 2638.9 | 2663.3 | 3165.0 | 3398.7 | 2856.6 |
| 57.5° | 3224.3 | 3185.2 | 3193.7 | 3344.0 | 3506.3 | 3089.1 | 2827.5 | 2876.8 | 3529.8 | 3641.9 | 2971.2 |
| 60°   | 3683.6 | 3599.7 | 3440.5 | 3436.6 | 3532.8 | 3240.7 | 3045.8 | 3106.0 | 3909.0 | 3758.1 | 2926.6 |
| 62.5° | 4327.7 | 4243.9 | 3945.5 | 3751.4 | 3737.0 | 3491.1 | 3313.7 | 3329.7 | 4128.0 | 3600.5 | 2654.0 |
| 65°   | 5024.8 | 4949.9 | 4616.7 | 4342.3 | 4210.1 | 3905.6 | 3625.0 | 3429.5 | 4056.3 | 3167.1 | 2177.1 |
| 67.5° | 5871.2 | 5790.7 | 5504.3 | 5251.1 | 5123.8 | 4574.4 | 3843.7 | 3333.9 | 3601.8 | 2453.5 | 1564.9 |
| 70°   | 6463.0 | 6380.9 | 6268.1 | 6473.1 | 6784.4 | 5539.7 | 3871.9 | 2945.1 | 2690.2 | 1630.8 | 942.0  |
| 72.5° | 5690.9 | 5652.6 | 5858.6 | 6722.6 | 8019.2 | 6125.3 | 3499.8 | 2144.3 | 1562.5 | 865.6  | 545.1  |
| 73°   | 5214.0 | 5205.6 | 5556.9 | 6547.7 | 8028.1 | 6035.1 | 3336.8 | 1993.0 | 1340.0 | 765.9  | 498.4  |
| 75°   | 2354.5 | 2422.3 | 3192.3 | 5001.3 | 6974.9 | 4973.0 | 2348.6 | 1143.4 | 757.0  | 529.1  | 376.2  |
| 77.5° | 565.8  | 589.4  | 998.8  | 2375.1 | 4404.7 | 2963.6 | 1064.1 | 565.4  | 484.0  | 373.6  | 274.6  |
| 80°   | 240.9  | 249.0  | 384.7  | 877.6  | 2073.8 | 1193.5 | 490.4  | 378.7  | 334.9  | 260.8  | 192.5  |
| 82.5° | 133.9  | 142.4  | 218.2  | 398.0  | 837.0  | 406.9  | 299.0  | 263.7  | 220.4  | 157.2  | 125.1  |
| 85°   | 75.8   | 80.5   | 127.6  | 222.4  | 354.7  | 163.4  | 179.0  | 175.3  | 124.2  | 80.8   | 61.5   |
| 87.5° | 35.8   | 38.7   | 61.5   | 103.2  | 139.0  | 64.0   | 91.0   | 100.3  | 78.0   | 49.2   | 32.0   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 | 1324.0 |
| 2.5°  | 1323.3 | 1330.7 | 1339.6 | 1344.3 | 1348.4 | 1353.6 | 1358.5 | 1358.5 | 1359.5 | 1359.9 |
| 5°    | 1314.0 | 1329.5 | 1343.4 | 1349.3 | 1350.6 | 1350.6 | 1349.3 | 1342.5 | 1336.7 | 1339.3 |
| 7.5°  | 1294.5 | 1317.4 | 1329.1 | 1326.9 | 1310.9 | 1292.4 | 1276.9 | 1257.8 | 1248.3 | 1246.5 |
| 10°   | 1266.7 | 1292.9 | 1294.9 | 1273.8 | 1234.4 | 1194.7 | 1161.9 | 1129.9 | 1114.6 | 1110.8 |
| 12.5° | 1236.0 | 1260.1 | 1246.5 | 1203.1 | 1139.5 | 1081.7 | 1040.1 | 1007.7 | 993.3  | 989.6  |
| 15°   | 1211.2 | 1227.5 | 1193.5 | 1125.1 | 1045.2 | 984.1  | 949.5  | 925.6  | 915.5  | 912.5  |
| 17.5° | 1198.1 | 1201.5 | 1139.1 | 1046.9 | 961.7  | 910.8  | 889.3  | 878.0  | 874.1  | 872.1  |
| 20°   | 1204.4 | 1180.8 | 1087.3 | 973.9  | 893.5  | 857.7  | 852.6  | 849.6  | 848.9  | 847.6  |
| 22.5° | 1236.0 | 1174.5 | 1039.7 | 905.0  | 833.6  | 818.0  | 822.3  | 821.9  | 821.1  | 820.2  |
| 25°   | 1292.4 | 1180.0 | 993.3  | 839.1  | 783.5  | 780.2  | 787.8  | 787.8  | 784.4  | 784.4  |
| 27.5° | 1367.0 | 1191.3 | 941.6  | 776.9  | 738.0  | 738.4  | 744.3  | 742.7  | 738.9  | 736.4  |
| 30°   | 1457.9 | 1198.5 | 880.9  | 720.8  | 695.5  | 693.9  | 695.5  | 688.3  | 677.0  | 676.2  |
| 32.5° | 1551.2 | 1189.6 | 810.5  | 671.0  | 650.5  | 646.6  | 645.4  | 635.3  | 622.3  | 618.5  |
| 35°   | 1635.4 | 1157.2 | 738.9  | 631.5  | 607.4  | 599.0  | 605.0  | 601.5  | 589.7  | 586.9  |
| 37.5° | 1696.9 | 1097.0 | 674.4  | 596.6  | 576.7  | 574.6  | 578.4  | 579.6  | 565.8  | 562.8  |
| 40°   | 1738.1 | 1015.3 | 619.2  | 567.0  | 570.9  | 562.8  | 550.2  | 541.3  | 537.0  | 535.8  |
| 42.5° | 1771.4 | 930.1  | 572.8  | 553.1  | 572.1  | 549.0  | 521.6  | 507.3  | 514.8  | 518.1  |
| 45°   | 1809.7 | 847.2  | 534.1  | 535.8  | 565.8  | 533.0  | 501.8  | 487.8  | 490.7  | 491.6  |
| 47.5° | 1862.5 | 746.0  | 492.5  | 508.0  | 544.7  | 521.9  | 489.4  | 469.8  | 455.8  | 449.5  |
| 50°   | 1935.3 | 626.4  | 449.1  | 476.9  | 524.0  | 513.9  | 470.5  | 449.5  | 423.8  | 417.9  |
| 52.5° | 1985.9 | 514.8  | 413.3  | 450.8  | 505.6  | 497.9  | 455.4  | 428.0  | 401.1  | 396.1  |
| 55°   | 1958.5 | 427.7  | 382.0  | 421.7  | 481.1  | 478.2  | 442.8  | 406.2  | 385.1  | 380.8  |
| 57.5° | 1821.6 | 372.3  | 358.1  | 394.3  | 451.2  | 461.3  | 425.8  | 387.6  | 372.3  | 369.5  |
| 60°   | 1560.4 | 337.9  | 343.0  | 375.9  | 426.8  | 444.4  | 409.1  | 377.5  | 367.3  | 365.3  |
| 62.5° | 1210.7 | 314.6  | 331.6  | 362.2  | 407.8  | 432.7  | 399.7  | 376.2  | 372.3  | 369.9  |
| 65°   | 867.5  | 296.1  | 319.3  | 348.8  | 390.6  | 421.7  | 396.4  | 374.6  | 375.3  | 373.2  |
| 67.5° | 589.4  | 279.7  | 304.5  | 333.6  | 373.6  | 412.1  | 391.8  | 368.7  | 379.2  | 376.6  |
| 70°   | 412.4  | 263.7  | 287.3  | 314.2  | 352.7  | 398.5  | 383.3  | 359.7  | 359.0  | 348.8  |
| 72.5° | 321.9  | 242.6  | 263.7  | 287.3  | 325.6  | 379.5  | 366.5  | 340.0  | 326.1  | 315.6  |
| 73°   | 307.1  | 237.6  | 257.9  | 281.3  | 319.7  | 375.0  | 361.8  | 334.4  | 318.9  | 309.1  |
| 75°   | 254.0  | 215.8  | 234.2  | 255.3  | 294.5  | 353.0  | 339.1  | 309.6  | 289.9  | 284.0  |
| 77.5° | 199.7  | 184.5  | 202.2  | 221.2  | 259.5  | 321.1  | 305.5  | 277.1  | 266.3  | 261.1  |
| 80°   | 148.0  | 152.9  | 168.5  | 185.4  | 224.9  | 286.9  | 272.9  | 244.8  | 293.7  | 281.3  |
| 82.5° | 104.1  | 115.8  | 130.2  | 145.3  | 188.7  | 253.6  | 236.8  | 207.7  | 214.9  | 178.7  |
| 85°   | 61.5   | 75.8   | 89.3   | 102.3  | 136.1  | 210.3  | 195.6  | 165.6  | 135.6  | 129.4  |
| 87.5° | 35.8   | 42.1   | 46.0   | 59.4   | 93.6   | 158.5  | 137.8  | 122.6  | 70.3   | 47.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)