

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: P200688

Luminaire Tested: **GWC-AF-02-LED-E1-T4FT-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200688  
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-8030  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA 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: 10198 lumens  
Efficiency: N/A  
Efficacy: 90.2 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): 113  
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

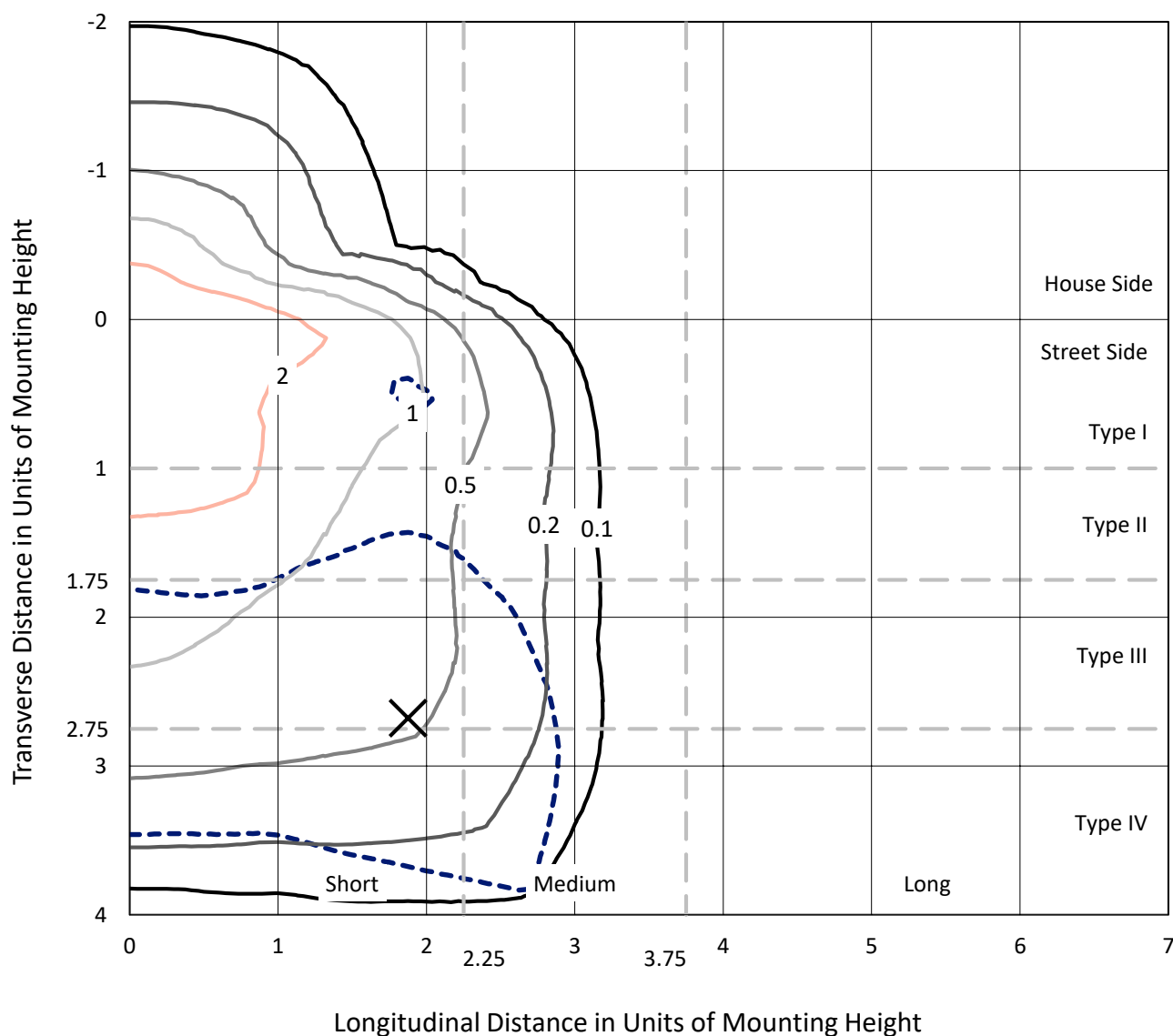


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

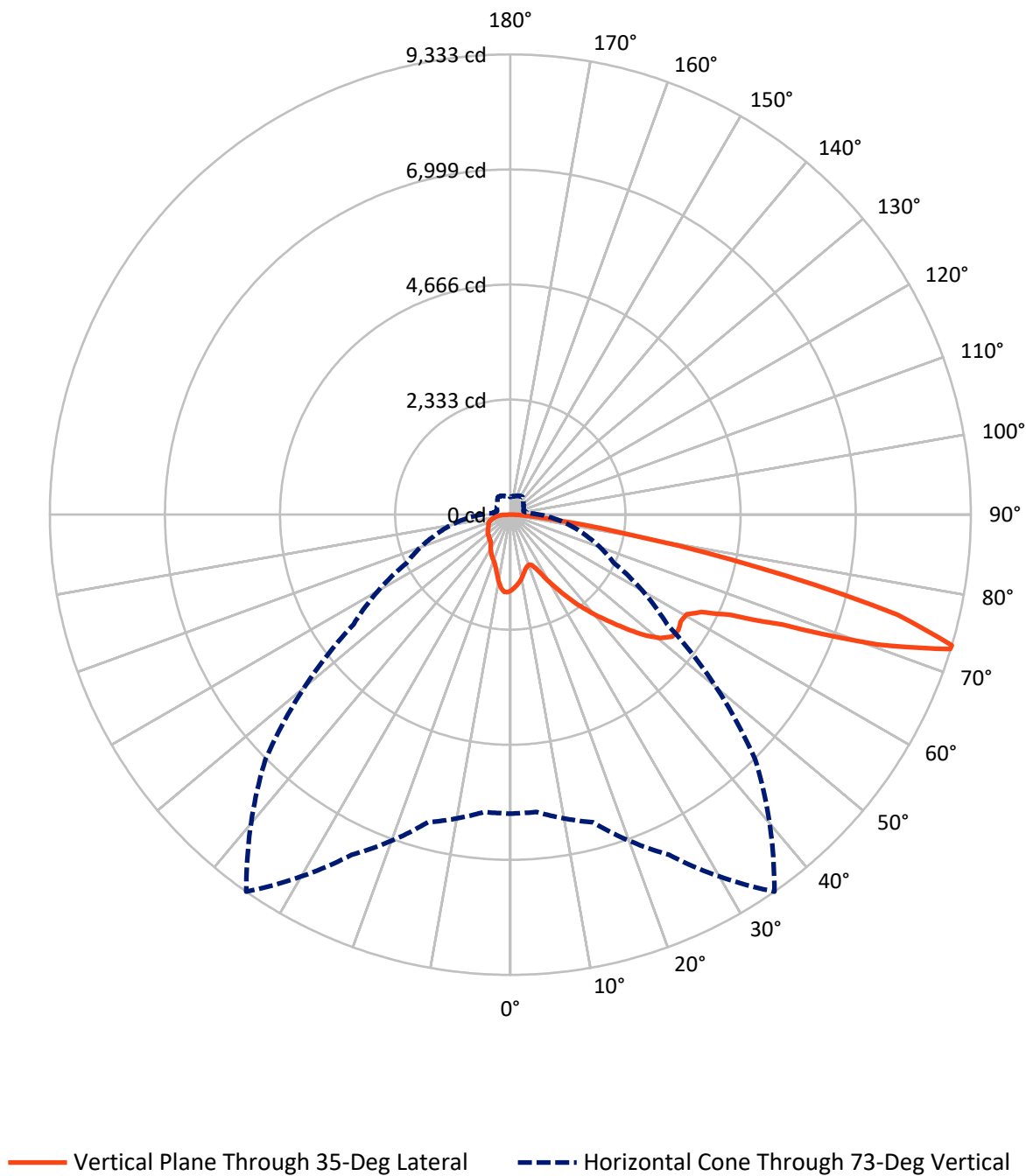


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1945.0   | 0.0    | 1945.0  |
|                    | % Fixture | 19.1     | 0.0    | 19.1    |
| <b>Street Side</b> | Lumens    | 8253.0   | 0.0    | 8253.0  |
|                    | % Fixture | 80.9     | 0.0    | 80.9    |
| <b>Total</b>       | Lumens    | 10198.0  | 0.0    | 10198.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 139.3   | 1.4       |
| 10°-20°   | 347.8   | 3.4       |
| 20°-30°   | 562.2   | 5.5       |
| 30°-40°   | 942.8   | 9.2       |
| 40°-50°   | 1453.2  | 14.3      |
| 50°-60°   | 1949.7  | 19.1      |
| 60°-70°   | 2597.4  | 25.5      |
| 70°-80°   | 1981.0  | 19.4      |
| 80°-90°   | 224.5   | 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°    | 10198.0 | 100.0     |
| 0°-180°   | 10198.0 | 100.0     |

**Coefficient of Utilization**



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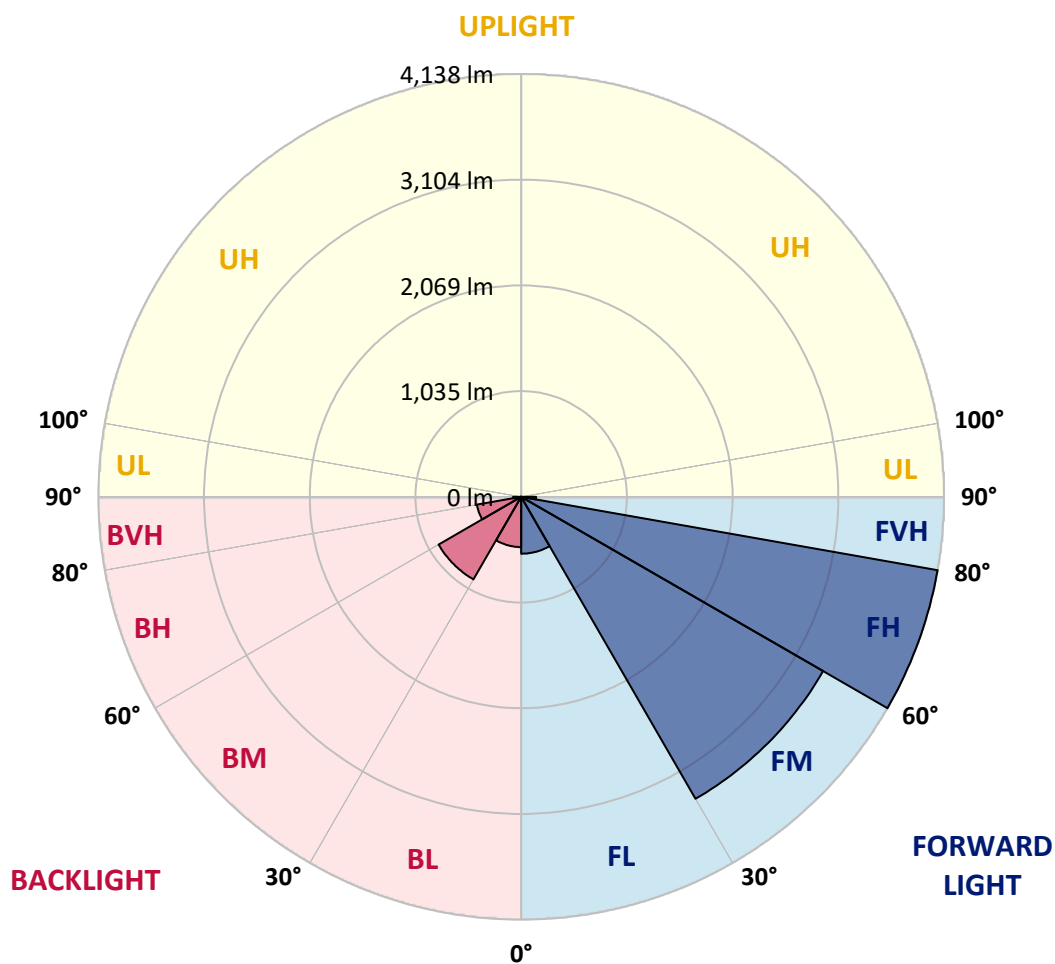
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 557.2  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 3412.3 | 33.5      |                         |      |         |
| FH   | (60°-80°)   | 4138.3 | 40.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 145.1  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 492.2  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 933.4  | 9.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 440.0  | 4.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 79.4   | 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°    | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 |
| 2.5°  | 1478.5 | 1481.4 | 1478.0 | 1482.4 | 1489.7 | 1497.6 | 1503.0 | 1510.8 | 1519.6 | 1531.8 | 1534.8 |
| 5°    | 1408.9 | 1413.3 | 1413.3 | 1421.2 | 1435.4 | 1448.1 | 1459.9 | 1472.6 | 1491.2 | 1512.3 | 1520.6 |
| 7.5°  | 1332.5 | 1335.0 | 1339.4 | 1351.1 | 1371.7 | 1389.8 | 1406.5 | 1427.0 | 1452.5 | 1480.4 | 1495.1 |
| 10°   | 1240.5 | 1243.9 | 1250.7 | 1267.4 | 1295.3 | 1320.3 | 1344.3 | 1372.7 | 1405.0 | 1439.8 | 1458.4 |
| 12.5° | 1175.3 | 1174.4 | 1177.3 | 1189.5 | 1214.0 | 1244.4 | 1279.2 | 1315.4 | 1355.1 | 1395.7 | 1418.2 |
| 15°   | 1153.3 | 1147.9 | 1136.6 | 1133.7 | 1146.9 | 1177.3 | 1217.4 | 1262.0 | 1309.5 | 1358.5 | 1386.4 |
| 17.5° | 1167.0 | 1157.7 | 1126.8 | 1104.3 | 1102.4 | 1125.4 | 1168.0 | 1217.9 | 1272.8 | 1332.5 | 1367.3 |
| 20°   | 1253.2 | 1231.2 | 1155.3 | 1102.9 | 1084.7 | 1096.0 | 1133.2 | 1186.1 | 1250.7 | 1330.1 | 1374.6 |
| 22.5° | 1459.4 | 1427.0 | 1265.9 | 1168.5 | 1107.3 | 1093.5 | 1121.5 | 1177.8 | 1253.2 | 1360.4 | 1417.3 |
| 25°   | 1759.6 | 1713.5 | 1455.9 | 1332.0 | 1205.7 | 1132.7 | 1139.1 | 1196.9 | 1288.0 | 1431.0 | 1499.5 |
| 27.5° | 1996.6 | 1966.7 | 1704.2 | 1562.7 | 1384.9 | 1238.5 | 1196.4 | 1244.9 | 1359.0 | 1546.5 | 1616.6 |
| 30°   | 2137.6 | 2119.5 | 1969.7 | 1824.2 | 1613.6 | 1407.0 | 1306.1 | 1335.0 | 1470.1 | 1706.7 | 1764.5 |
| 32.5° | 2301.2 | 2290.4 | 2217.0 | 2083.3 | 1860.5 | 1628.3 | 1479.9 | 1469.7 | 1619.0 | 1899.1 | 1925.6 |
| 35°   | 2470.6 | 2467.2 | 2424.1 | 2328.1 | 2125.4 | 1920.2 | 1710.6 | 1641.1 | 1781.1 | 2098.9 | 2082.3 |
| 37.5° | 2628.3 | 2622.5 | 2597.5 | 2541.7 | 2402.6 | 2233.6 | 1945.7 | 1816.9 | 1955.9 | 2289.9 | 2216.0 |
| 40°   | 2918.7 | 2872.7 | 2787.0 | 2744.9 | 2682.7 | 2497.6 | 2132.2 | 1980.9 | 2137.1 | 2472.1 | 2331.6 |
| 42.5° | 3272.8 | 3197.9 | 3038.2 | 2980.4 | 2971.6 | 2705.7 | 2259.6 | 2140.1 | 2319.8 | 2652.8 | 2445.2 |
| 45°   | 3551.5 | 3480.9 | 3343.3 | 3270.4 | 3302.7 | 2894.3 | 2387.4 | 2310.0 | 2507.9 | 2842.3 | 2562.2 |
| 47.5° | 3848.7 | 3738.0 | 3555.9 | 3577.9 | 3648.4 | 3072.5 | 2517.7 | 2492.7 | 2714.0 | 3054.4 | 2707.7 |
| 50°   | 3859.5 | 3774.8 | 3694.9 | 3826.7 | 3936.4 | 3236.6 | 2680.7 | 2684.2 | 2966.2 | 3321.3 | 2901.1 |
| 52.5° | 3635.7 | 3617.6 | 3744.4 | 3951.6 | 4109.7 | 3366.3 | 2866.3 | 2882.0 | 3289.0 | 3627.9 | 3113.6 |
| 55°   | 3557.3 | 3536.8 | 3683.2 | 3908.0 | 4133.3 | 3473.6 | 3067.6 | 3096.0 | 3679.3 | 3951.1 | 3320.8 |
| 57.5° | 3748.3 | 3702.8 | 3712.6 | 3887.4 | 4076.0 | 3591.1 | 3287.0 | 3344.3 | 4103.4 | 4233.6 | 3454.0 |
| 60°   | 4282.1 | 4184.7 | 3999.6 | 3995.1 | 4106.8 | 3767.4 | 3540.7 | 3610.7 | 4544.1 | 4368.8 | 3402.1 |
| 62.5° | 5030.9 | 4933.5 | 4586.7 | 4361.0 | 4344.3 | 4058.3 | 3852.2 | 3870.8 | 4798.8 | 4185.7 | 3085.2 |
| 65°   | 5841.4 | 5754.2 | 5366.9 | 5048.1 | 4894.3 | 4540.2 | 4214.1 | 3986.8 | 4715.5 | 3681.7 | 2530.9 |
| 67.5° | 6825.2 | 6731.7 | 6398.7 | 6104.4 | 5956.5 | 5317.9 | 4468.2 | 3875.7 | 4187.1 | 2852.1 | 1819.3 |
| 70°   | 7513.3 | 7417.8 | 7286.6 | 7525.1 | 7887.0 | 6439.8 | 4501.0 | 3423.6 | 3127.4 | 1895.7 | 1095.0 |
| 72.5° | 6615.6 | 6571.1 | 6810.6 | 7815.0 | 9322.3 | 7120.6 | 4068.6 | 2492.7 | 1816.4 | 1006.4 | 633.7  |
| 73°   | 6061.3 | 6051.5 | 6459.9 | 7611.7 | 9332.6 | 7015.8 | 3879.1 | 2316.9 | 1557.8 | 890.3  | 579.3  |
| 75°   | 2737.1 | 2815.9 | 3711.1 | 5814.0 | 8108.3 | 5781.2 | 2730.2 | 1329.1 | 880.0  | 615.1  | 437.3  |
| 77.5° | 657.7  | 685.1  | 1161.1 | 2761.1 | 5120.5 | 3445.2 | 1237.0 | 657.2  | 562.7  | 434.4  | 319.3  |
| 80°   | 280.1  | 289.4  | 447.1  | 1020.1 | 2410.9 | 1387.4 | 570.0  | 440.3  | 389.3  | 303.1  | 223.8  |
| 82.5° | 155.7  | 165.5  | 253.7  | 462.8  | 973.1  | 473.1  | 347.7  | 306.6  | 256.1  | 182.7  | 145.4  |
| 85°   | 88.1   | 93.5   | 148.4  | 258.6  | 412.3  | 190.0  | 208.1  | 203.7  | 144.5  | 94.0   | 71.5   |
| 87.5° | 41.6   | 45.1   | 71.5   | 120.0  | 161.6  | 74.4   | 105.8  | 116.6  | 90.6   | 57.3   | 37.2   |
| 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°    | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 | 1539.2 |
| 2.5°  | 1538.2 | 1547.0 | 1557.3 | 1562.7 | 1567.6 | 1573.5 | 1579.4 | 1579.4 | 1580.3 | 1580.8 |
| 5°    | 1527.4 | 1545.6 | 1561.7 | 1568.6 | 1570.0 | 1570.0 | 1568.6 | 1560.7 | 1553.9 | 1556.8 |
| 7.5°  | 1504.9 | 1531.4 | 1545.1 | 1542.6 | 1524.0 | 1502.5 | 1484.3 | 1462.3 | 1451.0 | 1449.1 |
| 10°   | 1472.6 | 1503.0 | 1505.4 | 1480.9 | 1434.9 | 1388.9 | 1350.7 | 1313.4 | 1295.8 | 1291.4 |
| 12.5° | 1436.8 | 1464.8 | 1449.1 | 1398.6 | 1324.7 | 1257.6 | 1209.1 | 1171.4 | 1154.8 | 1150.4 |
| 15°   | 1407.9 | 1427.0 | 1387.4 | 1308.0 | 1215.0 | 1144.0 | 1103.8 | 1075.9 | 1064.2 | 1060.7 |
| 17.5° | 1392.8 | 1396.7 | 1324.2 | 1217.0 | 1118.0 | 1058.8 | 1033.8 | 1020.6 | 1016.2 | 1013.7 |
| 20°   | 1400.1 | 1372.7 | 1264.0 | 1132.2 | 1038.7 | 997.1  | 991.2  | 987.8  | 986.8  | 985.3  |
| 22.5° | 1436.8 | 1365.3 | 1208.6 | 1051.9 | 969.2  | 951.0  | 955.9  | 955.4  | 954.5  | 953.5  |
| 25°   | 1502.5 | 1371.7 | 1154.8 | 975.5  | 910.9  | 907.0  | 915.8  | 915.8  | 911.9  | 911.9  |
| 27.5° | 1589.1 | 1384.9 | 1094.5 | 903.0  | 858.0  | 858.5  | 865.3  | 863.4  | 859.0  | 856.0  |
| 30°   | 1694.9 | 1393.3 | 1024.0 | 837.9  | 808.5  | 806.6  | 808.5  | 800.2  | 787.0  | 786.0  |
| 32.5° | 1803.2 | 1383.0 | 942.2  | 780.1  | 756.1  | 751.7  | 750.3  | 738.5  | 723.3  | 718.9  |
| 35°   | 1901.1 | 1345.3 | 859.0  | 734.1  | 706.2  | 696.4  | 703.2  | 699.3  | 685.6  | 682.2  |
| 37.5° | 1972.6 | 1275.2 | 784.0  | 693.4  | 670.4  | 668.0  | 672.4  | 673.9  | 657.7  | 654.3  |
| 40°   | 2020.6 | 1180.2 | 719.9  | 659.2  | 663.6  | 654.3  | 639.6  | 629.3  | 624.4  | 622.9  |
| 42.5° | 2059.3 | 1081.3 | 666.0  | 643.0  | 665.0  | 638.1  | 606.3  | 589.6  | 598.4  | 602.4  |
| 45°   | 2103.8 | 984.8  | 621.0  | 622.9  | 657.7  | 619.5  | 583.3  | 567.1  | 570.5  | 571.5  |
| 47.5° | 2165.1 | 867.3  | 572.5  | 590.6  | 633.2  | 606.8  | 569.1  | 546.0  | 529.9  | 522.5  |
| 50°   | 2249.8 | 728.2  | 522.0  | 554.4  | 609.2  | 597.5  | 547.0  | 522.5  | 492.7  | 485.8  |
| 52.5° | 2308.5 | 598.4  | 480.4  | 524.0  | 587.7  | 578.9  | 529.4  | 497.6  | 466.2  | 460.3  |
| 55°   | 2276.7 | 497.1  | 444.2  | 490.2  | 559.3  | 555.8  | 514.7  | 472.1  | 447.6  | 442.7  |
| 57.5° | 2117.6 | 432.9  | 416.3  | 458.4  | 524.5  | 536.2  | 495.1  | 450.5  | 432.9  | 429.5  |
| 60°   | 1813.9 | 392.8  | 398.6  | 436.8  | 496.1  | 516.7  | 475.5  | 438.8  | 427.0  | 424.6  |
| 62.5° | 1407.5 | 365.8  | 385.4  | 421.2  | 474.1  | 502.9  | 464.7  | 437.3  | 432.9  | 430.0  |
| 65°   | 1008.3 | 344.3  | 371.2  | 405.5  | 454.0  | 490.2  | 460.8  | 435.4  | 436.3  | 433.9  |
| 67.5° | 685.1  | 325.2  | 354.1  | 387.9  | 434.4  | 478.9  | 455.4  | 428.5  | 440.7  | 437.8  |
| 70°   | 479.4  | 306.6  | 334.0  | 365.3  | 409.9  | 463.3  | 445.6  | 418.2  | 417.2  | 405.5  |
| 72.5° | 374.1  | 282.1  | 306.6  | 334.0  | 378.6  | 441.2  | 426.1  | 395.2  | 379.0  | 366.8  |
| 73°   | 357.0  | 276.2  | 299.7  | 327.1  | 371.7  | 435.9  | 420.7  | 388.8  | 370.7  | 359.5  |
| 75°   | 295.3  | 250.7  | 272.3  | 296.8  | 342.3  | 410.4  | 394.2  | 359.9  | 336.9  | 330.1  |
| 77.5° | 232.1  | 214.5  | 235.1  | 257.1  | 301.7  | 373.2  | 355.0  | 322.2  | 309.5  | 303.6  |
| 80°   | 171.9  | 177.8  | 195.9  | 215.5  | 261.5  | 333.5  | 317.3  | 284.5  | 341.3  | 327.1  |
| 82.5° | 121.0  | 134.7  | 151.3  | 169.0  | 219.4  | 294.8  | 275.2  | 241.4  | 249.8  | 207.6  |
| 85°   | 71.5   | 88.1   | 103.8  | 119.0  | 158.2  | 244.4  | 227.2  | 192.5  | 157.7  | 150.3  |
| 87.5° | 41.6   | 49.0   | 53.4   | 69.1   | 108.7  | 184.1  | 160.1  | 142.5  | 81.8   | 55.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)