

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: P200033

Luminaire Tested: **GWC-AF-01-LED-E1-T3-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200033  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-01-LED-E1-T3-7030-1200  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6745.7 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

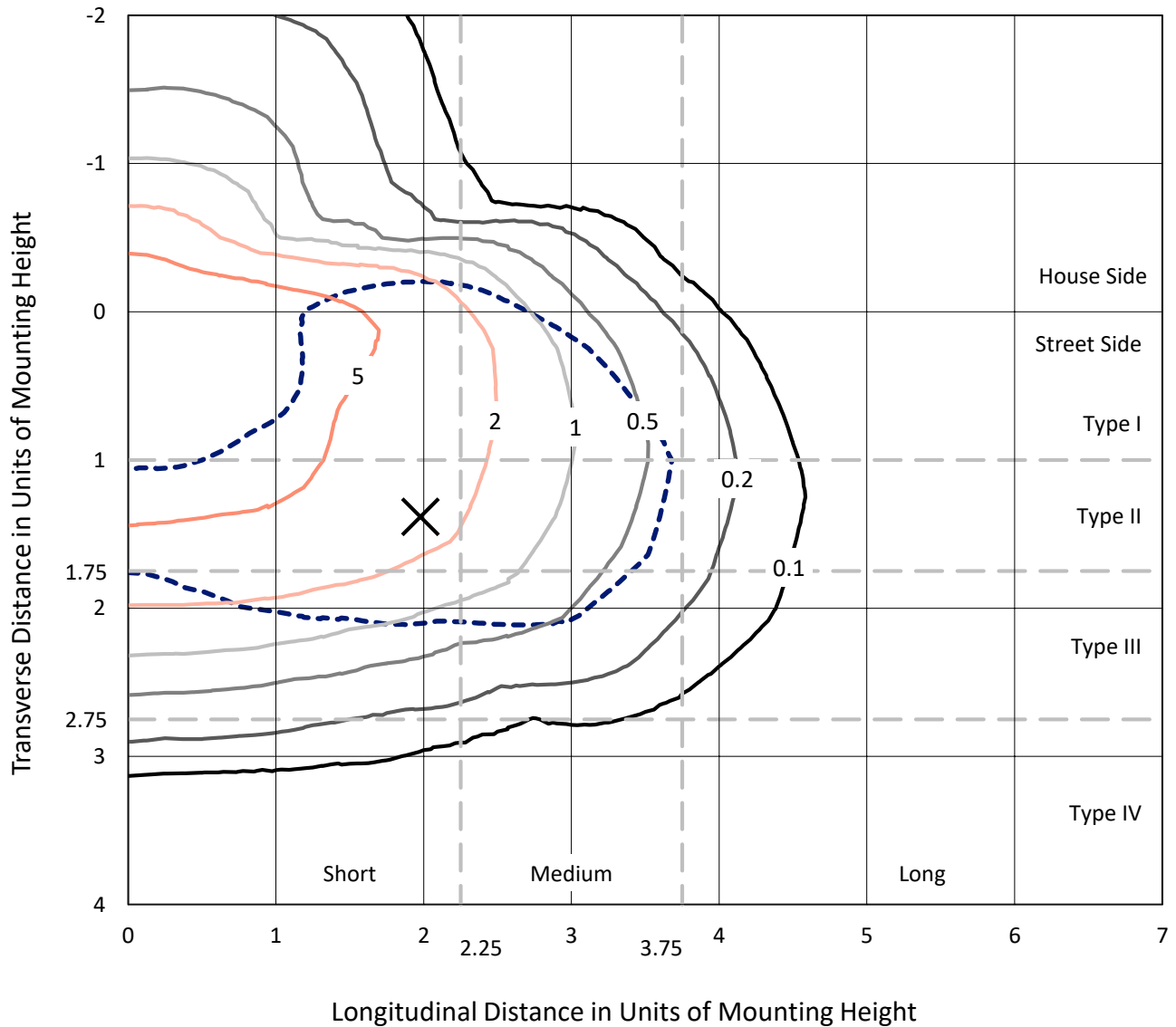


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### Iso-Footcandle Lines of Horizontal Illumination

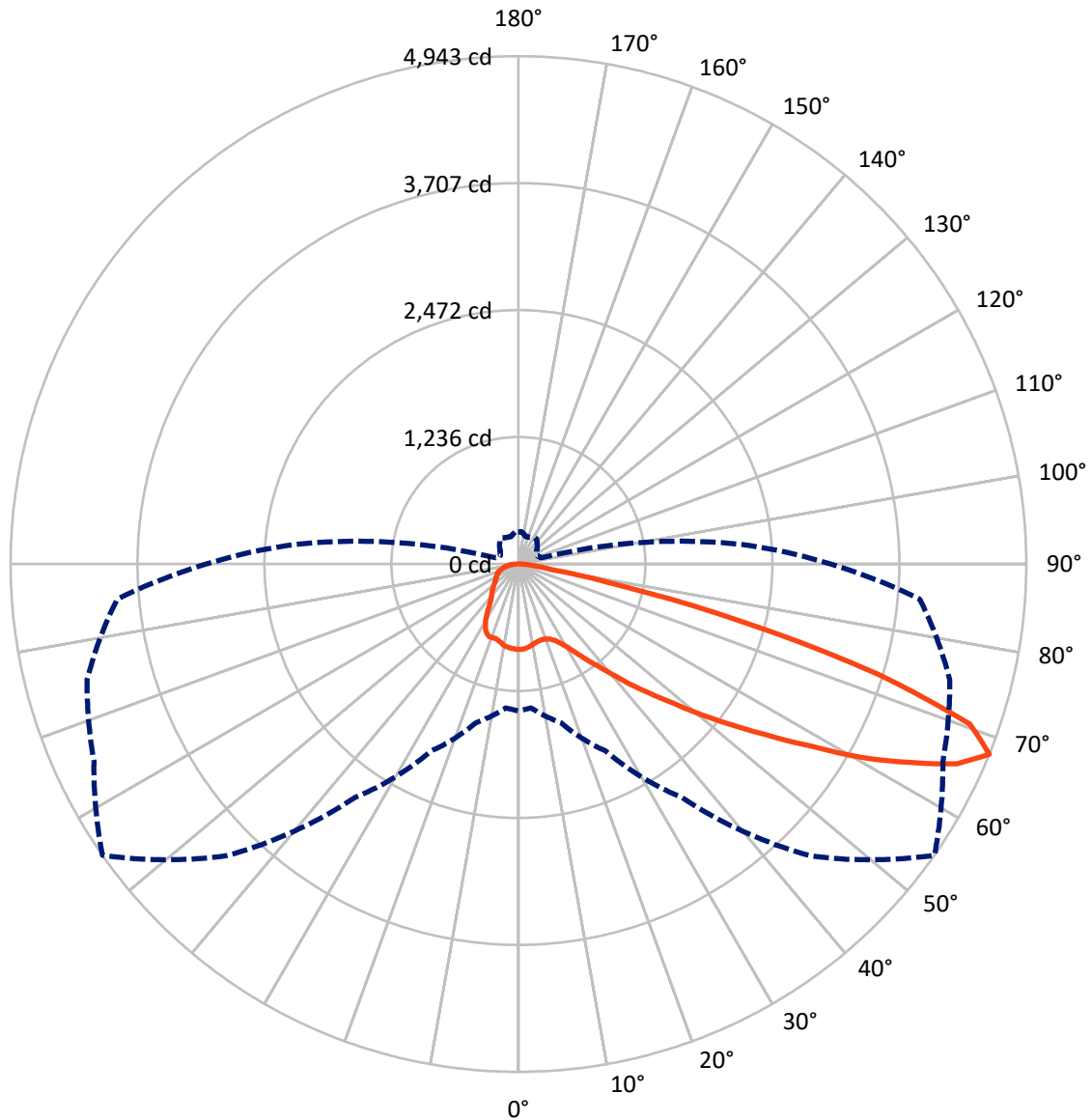
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1457.2   | 0.0    | 1457.2 |
|                    | % Fixture | 21.6     | 0.0    | 21.6   |
| <b>Street Side</b> | Lumens    | 5288.5   | 0.0    | 5288.5 |
|                    | % Fixture | 78.4     | 0.0    | 78.4   |
| <b>Total</b>       | Lumens    | 6745.7   | 0.0    | 6745.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 77.6   | 1.2       |
| 10°-20°   | 219.9  | 3.3       |
| 20°-30°   | 368.3  | 5.5       |
| 30°-40°   | 605.7  | 9.0       |
| 40°-50°   | 1019.6 | 15.1      |
| 50°-60°   | 1604.8 | 23.8      |
| 60°-70°   | 1915.1 | 28.4      |
| 70°-80°   | 822.4  | 12.2      |
| 80°-90°   | 112.1  | 1.7       |
| 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°    | 6745.7 | 100.0     |
| 0°-180°   | 6745.7 | 100.0     |



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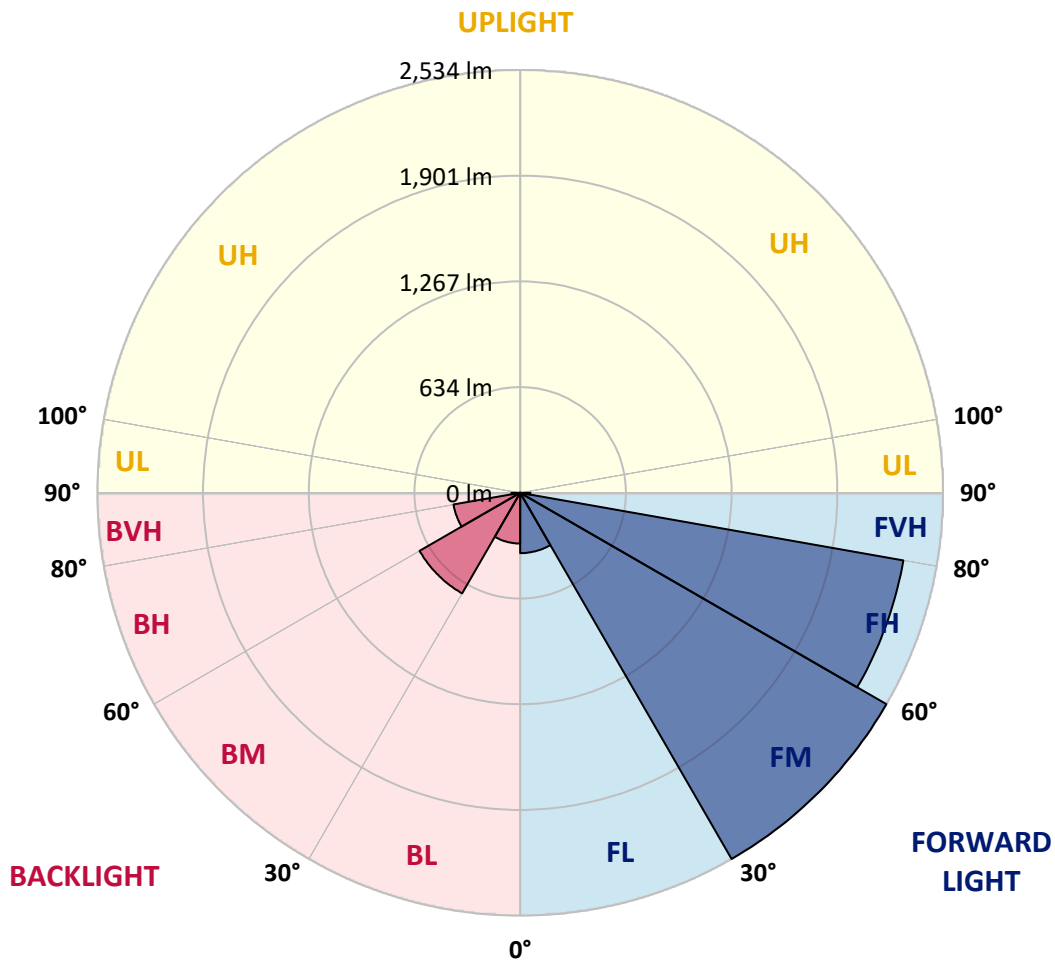
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 361.6  | 5.4       |                         |      |         |
| FM (30°-60°)   | 2534.2 | 37.6      |                         |      |         |
| FH (60°-80°)   | 2332.0 | 34.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 60.7   | 0.9       |                         |      | G1/100  |
| BL (0°-30°)    | 304.3  | 4.5       | B1/500                  |      |         |
| BM (30°-60°)   | 695.9  | 10.3      | B1/1000                 |      |         |
| BH (60°-80°)   | 405.5  | 6.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 51.4   | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 831.8  | 831.8  | 831.8  | 831.8  | 831.8  | 831.8  | 831.8  | 831.8  | 831.8  | 831.8  | 831.8  |
| 2.5°  | 824.7  | 825.0  | 825.7  | 828.1  | 830.5  | 829.9  | 830.2  | 828.8  | 828.5  | 826.6  | 828.5  |
| 5°    | 814.2  | 815.2  | 815.5  | 819.8  | 822.4  | 823.0  | 822.0  | 820.4  | 818.5  | 816.5  | 817.5  |
| 7.5°  | 790.4  | 793.0  | 793.3  | 799.2  | 803.5  | 808.9  | 809.3  | 809.6  | 808.6  | 807.4  | 809.3  |
| 10°   | 775.4  | 776.1  | 775.7  | 780.0  | 783.3  | 789.5  | 793.0  | 799.2  | 801.9  | 802.5  | 803.8  |
| 12.5° | 774.4  | 773.8  | 772.8  | 772.8  | 771.9  | 774.4  | 780.9  | 789.8  | 796.0  | 797.9  | 799.6  |
| 15°   | 784.9  | 784.6  | 781.3  | 776.4  | 770.3  | 768.3  | 773.8  | 783.6  | 791.7  | 796.0  | 797.6  |
| 17.5° | 808.4  | 806.5  | 801.2  | 790.2  | 776.8  | 771.6  | 772.1  | 780.3  | 789.8  | 795.3  | 796.9  |
| 20°   | 851.3  | 851.3  | 840.3  | 819.5  | 795.6  | 783.3  | 777.4  | 782.3  | 791.4  | 798.9  | 801.2  |
| 22.5° | 925.7  | 926.3  | 907.7  | 873.5  | 833.4  | 807.1  | 792.3  | 791.4  | 802.2  | 810.6  | 813.2  |
| 25°   | 1030.9 | 1028.2 | 1002.2 | 953.4  | 892.4  | 848.7  | 823.4  | 817.5  | 826.6  | 836.1  | 839.3  |
| 27.5° | 1153.4 | 1144.0 | 1113.1 | 1054.1 | 975.1  | 911.3  | 872.2  | 862.8  | 871.6  | 882.3  | 885.5  |
| 30°   | 1274.6 | 1264.7 | 1228.0 | 1163.5 | 1075.8 | 995.1  | 939.0  | 923.7  | 936.1  | 951.4  | 953.4  |
| 32.5° | 1395.8 | 1395.8 | 1354.7 | 1279.5 | 1184.1 | 1095.1 | 1027.9 | 1009.7 | 1030.2 | 1048.8 | 1053.0 |
| 35°   | 1540.8 | 1541.4 | 1501.7 | 1411.1 | 1308.5 | 1214.3 | 1140.3 | 1127.0 | 1157.9 | 1171.0 | 1181.1 |
| 37.5° | 1718.9 | 1722.6 | 1671.4 | 1562.0 | 1449.6 | 1350.6 | 1262.6 | 1244.4 | 1275.3 | 1310.8 | 1343.4 |
| 40°   | 1911.6 | 1916.2 | 1859.8 | 1724.8 | 1612.4 | 1508.9 | 1413.7 | 1380.8 | 1432.3 | 1500.0 | 1542.0 |
| 42.5° | 2095.4 | 2118.7 | 2064.4 | 1925.5 | 1804.8 | 1697.6 | 1601.0 | 1553.2 | 1617.7 | 1720.0 | 1756.5 |
| 45°   | 2360.9 | 2377.8 | 2283.0 | 2157.3 | 2043.5 | 1923.6 | 1795.9 | 1745.4 | 1835.7 | 1964.7 | 1972.1 |
| 47.5° | 2537.8 | 2525.1 | 2476.9 | 2398.7 | 2326.6 | 2214.5 | 2022.4 | 1967.0 | 2086.9 | 2238.7 | 2196.6 |
| 50°   | 2631.9 | 2635.9 | 2629.4 | 2633.9 | 2636.5 | 2566.2 | 2299.9 | 2224.1 | 2367.1 | 2550.5 | 2453.8 |
| 52.5° | 2719.9 | 2693.9 | 2715.4 | 2822.2 | 2951.3 | 2925.2 | 2602.0 | 2522.8 | 2667.4 | 2896.6 | 2725.5 |
| 55°   | 2718.0 | 2678.3 | 2748.3 | 2936.9 | 3216.8 | 3246.7 | 2941.2 | 2849.9 | 2985.2 | 3267.6 | 3013.5 |
| 57.5° | 2621.9 | 2623.9 | 2731.7 | 2978.6 | 3401.9 | 3549.2 | 3334.7 | 3197.9 | 3322.0 | 3643.6 | 3276.4 |
| 60°   | 2489.6 | 2507.5 | 2662.8 | 2971.8 | 3550.2 | 3797.1 | 3817.6 | 3572.9 | 3652.1 | 3985.4 | 3494.1 |
| 62.5° | 2276.2 | 2295.1 | 2509.4 | 2900.8 | 3527.7 | 4035.9 | 4254.2 | 3998.5 | 3997.1 | 4192.6 | 3557.9 |
| 65°   | 1939.6 | 1934.1 | 2159.2 | 2635.3 | 3339.0 | 4212.5 | 4687.9 | 4366.3 | 4257.2 | 4195.9 | 3429.5 |
| 67.5° | 1430.3 | 1405.6 | 1598.8 | 2007.1 | 2775.3 | 4014.7 | 4943.0 | 4557.9 | 4345.8 | 3919.9 | 3037.3 |
| 70°   | 742.2  | 717.5  | 873.8  | 1172.0 | 1825.2 | 3133.4 | 4660.5 | 4458.9 | 4150.0 | 3285.9 | 2379.4 |
| 72.5° | 317.4  | 313.1  | 376.6  | 514.2  | 883.0  | 1807.3 | 3654.4 | 3859.4 | 3560.9 | 2448.2 | 1635.9 |
| 75°   | 213.4  | 212.1  | 235.9  | 280.2  | 397.1  | 733.4  | 2286.9 | 2739.4 | 2605.3 | 1517.9 | 920.1  |
| 77.5° | 167.5  | 165.8  | 179.8  | 201.4  | 257.5  | 289.3  | 1014.9 | 1470.7 | 1361.3 | 660.8  | 402.7  |
| 80°   | 131.0  | 129.7  | 138.4  | 150.2  | 185.0  | 182.5  | 334.0  | 585.2  | 452.9  | 253.2  | 195.8  |
| 82.5° | 103.2  | 103.2  | 110.5  | 110.8  | 131.3  | 124.4  | 174.3  | 257.8  | 226.1  | 147.6  | 119.8  |
| 85°   | 94.5   | 94.5   | 101.9  | 82.7   | 85.7   | 78.5   | 108.1  | 152.9  | 143.3  | 60.6   | 52.1   |
| 87.5° | 47.5   | 46.2   | 85.7   | 73.3   | 46.6   | 41.7   | 52.8   | 74.0   | 79.5   | 33.6   | 26.1   |
| 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°    | 831.8  | 831.8  | 831.8 | 831.8 | 831.8 | 831.8 | 831.8 | 831.8 | 831.8 | 831.8 |
| 2.5°  | 827.8  | 827.5  | 828.1 | 828.5 | 831.1 | 834.7 | 836.4 | 838.7 | 839.9 | 839.3 |
| 5°    | 818.2  | 818.8  | 821.4 | 823.4 | 827.8 | 833.7 | 837.0 | 839.6 | 842.0 | 841.0 |
| 7.5°  | 809.9  | 811.6  | 815.5 | 817.1 | 819.8 | 821.4 | 821.1 | 822.0 | 824.1 | 821.7 |
| 10°   | 805.5  | 807.4  | 810.2 | 808.1 | 801.9 | 793.0 | 784.9 | 780.6 | 782.0 | 780.3 |
| 12.5° | 800.9  | 803.5  | 801.2 | 790.4 | 773.1 | 761.7 | 755.5 | 756.2 | 759.2 | 759.8 |
| 15°   | 798.2  | 799.2  | 789.5 | 769.3 | 751.7 | 750.1 | 753.4 | 752.7 | 753.1 | 753.1 |
| 17.5° | 798.2  | 795.6  | 777.4 | 757.1 | 749.7 | 746.8 | 736.6 | 724.0 | 718.4 | 716.5 |
| 20°   | 802.5  | 795.6  | 773.4 | 760.1 | 743.8 | 718.7 | 692.0 | 668.5 | 658.2 | 655.2 |
| 22.5° | 815.2  | 803.5  | 784.6 | 761.4 | 715.2 | 673.1 | 630.8 | 602.8 | 583.9 | 580.6 |
| 25°   | 841.0  | 827.8  | 806.5 | 744.2 | 669.5 | 609.5 | 561.4 | 530.1 | 511.3 | 508.6 |
| 27.5° | 885.9  | 877.5  | 818.2 | 706.1 | 608.9 | 544.7 | 500.1 | 476.1 | 462.0 | 461.1 |
| 30°   | 953.8  | 949.5  | 812.3 | 649.6 | 534.4 | 481.9 | 460.4 | 446.4 | 436.0 | 435.6 |
| 32.5° | 1061.9 | 1027.6 | 793.0 | 580.9 | 466.2 | 437.2 | 428.4 | 420.0 | 411.8 | 411.8 |
| 35°   | 1201.0 | 1090.9 | 756.5 | 507.3 | 424.9 | 412.5 | 401.4 | 388.1 | 377.3 | 376.6 |
| 37.5° | 1364.5 | 1130.0 | 691.1 | 448.0 | 405.4 | 395.8 | 379.5 | 359.7 | 340.8 | 337.5 |
| 40°   | 1529.7 | 1141.6 | 598.8 | 411.5 | 392.9 | 379.2 | 359.4 | 336.0 | 317.7 | 316.8 |
| 42.5° | 1681.2 | 1119.2 | 501.1 | 386.4 | 380.6 | 362.3 | 341.4 | 320.5 | 306.3 | 305.9 |
| 45°   | 1808.2 | 1060.9 | 419.0 | 362.6 | 367.5 | 347.0 | 328.5 | 311.5 | 300.4 | 298.2 |
| 47.5° | 1927.9 | 978.4  | 361.3 | 337.5 | 354.4 | 338.4 | 322.9 | 306.9 | 296.2 | 294.6 |
| 50°   | 2066.6 | 889.5  | 320.9 | 313.1 | 343.1 | 335.7 | 327.4 | 310.9 | 293.0 | 290.9 |
| 52.5° | 2234.8 | 812.6  | 289.3 | 291.6 | 334.4 | 339.5 | 339.1 | 321.9 | 290.6 | 288.0 |
| 55°   | 2422.5 | 727.2  | 265.5 | 274.0 | 330.7 | 346.7 | 342.1 | 332.3 | 292.6 | 288.7 |
| 57.5° | 2607.2 | 627.4  | 248.9 | 260.7 | 325.5 | 346.1 | 328.1 | 314.1 | 297.1 | 291.6 |
| 60°   | 2745.6 | 493.7  | 236.2 | 248.9 | 314.1 | 335.3 | 312.8 | 294.2 | 296.2 | 291.9 |
| 62.5° | 2754.8 | 381.6  | 220.9 | 238.8 | 296.8 | 324.5 | 302.6 | 285.3 | 300.4 | 296.5 |
| 65°   | 2592.8 | 288.3  | 206.3 | 226.8 | 278.3 | 317.7 | 293.0 | 280.6 | 309.2 | 305.0 |
| 67.5° | 2183.0 | 231.9  | 193.8 | 214.3 | 259.7 | 303.3 | 284.1 | 276.0 | 317.1 | 309.5 |
| 70°   | 1575.9 | 197.8  | 181.8 | 199.4 | 243.1 | 287.1 | 276.3 | 267.8 | 295.9 | 284.1 |
| 72.5° | 970.3  | 171.4  | 168.2 | 179.5 | 230.3 | 270.1 | 264.5 | 252.5 | 266.5 | 257.1 |
| 75°   | 484.4  | 148.6  | 152.9 | 159.9 | 212.4 | 250.9 | 245.1 | 232.9 | 234.9 | 232.9 |
| 77.5° | 231.9  | 127.1  | 134.9 | 140.4 | 189.3 | 229.0 | 222.9 | 210.5 | 208.2 | 208.5 |
| 80°   | 147.0  | 106.2  | 113.7 | 117.7 | 169.2 | 203.7 | 197.4 | 185.0 | 211.1 | 195.8 |
| 82.5° | 91.9   | 86.4   | 88.3  | 95.5  | 147.3 | 177.2 | 169.2 | 158.0 | 190.3 | 150.6 |
| 85°   | 50.8   | 60.3   | 63.0  | 69.1  | 113.4 | 148.3 | 140.1 | 126.0 | 113.1 | 111.1 |
| 87.5° | 30.3   | 35.8   | 36.8  | 41.4  | 76.3  | 107.2 | 94.8  | 89.9  | 74.7  | 74.3  |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)