

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: P595629

Luminaire Tested: **ISW-PA1C-735-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISW-PA1C-735-U-T4W  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6169 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 48.3  
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: 28.75 FT

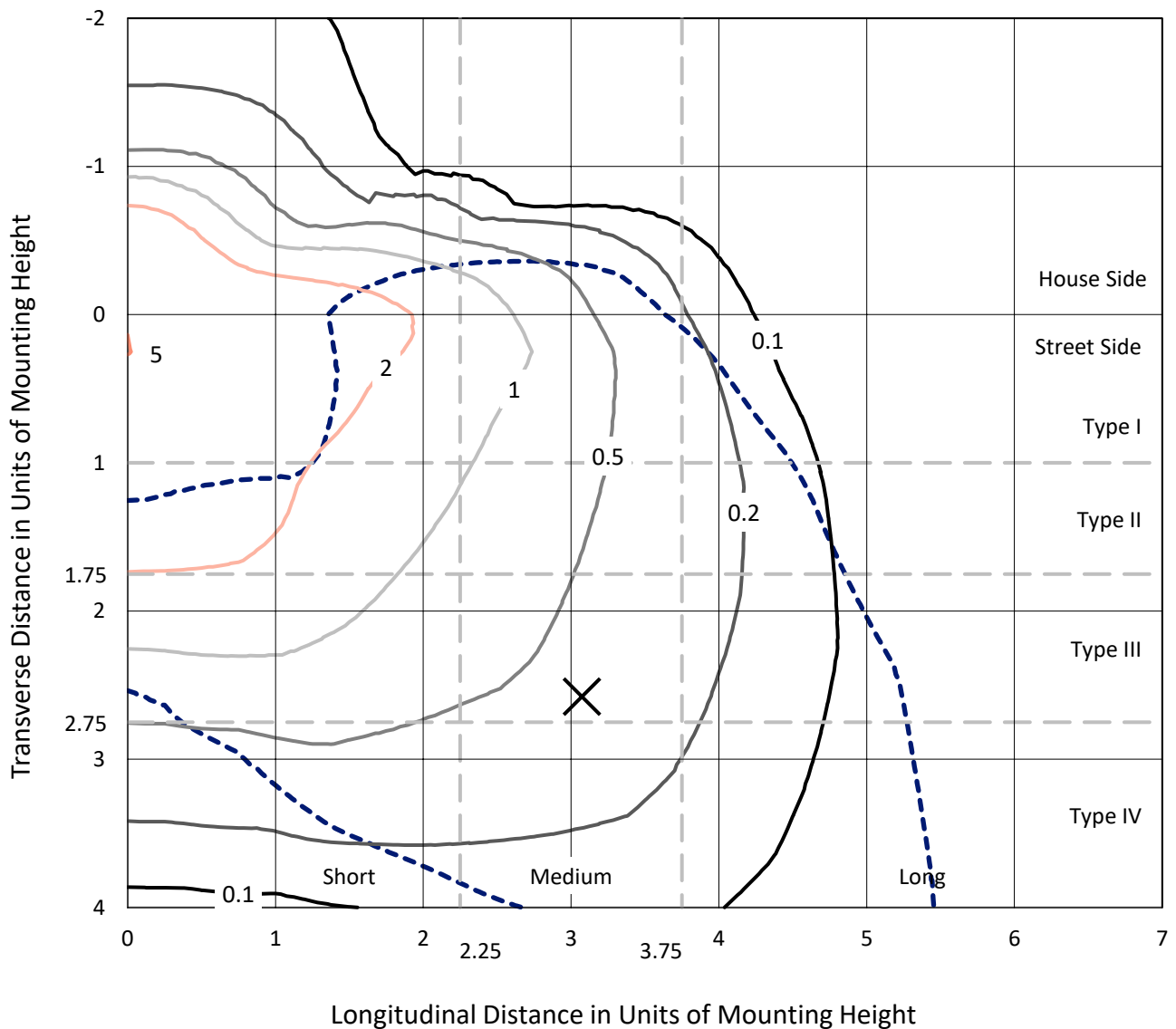




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### Iso-Footcandle Lines of Horizontal Illumination

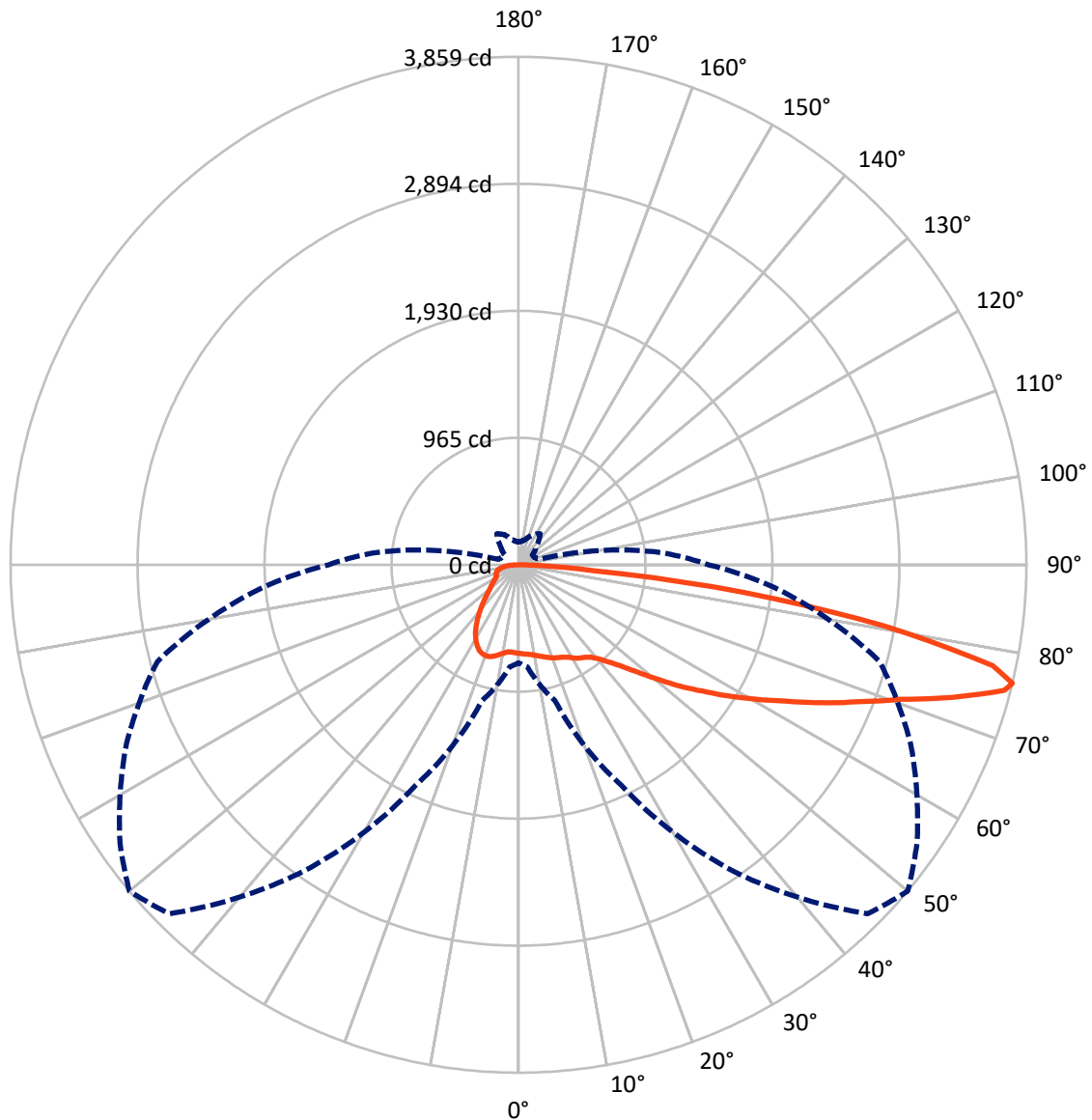
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral      - - - Horizontal Cone Through 76-Deg Vertical

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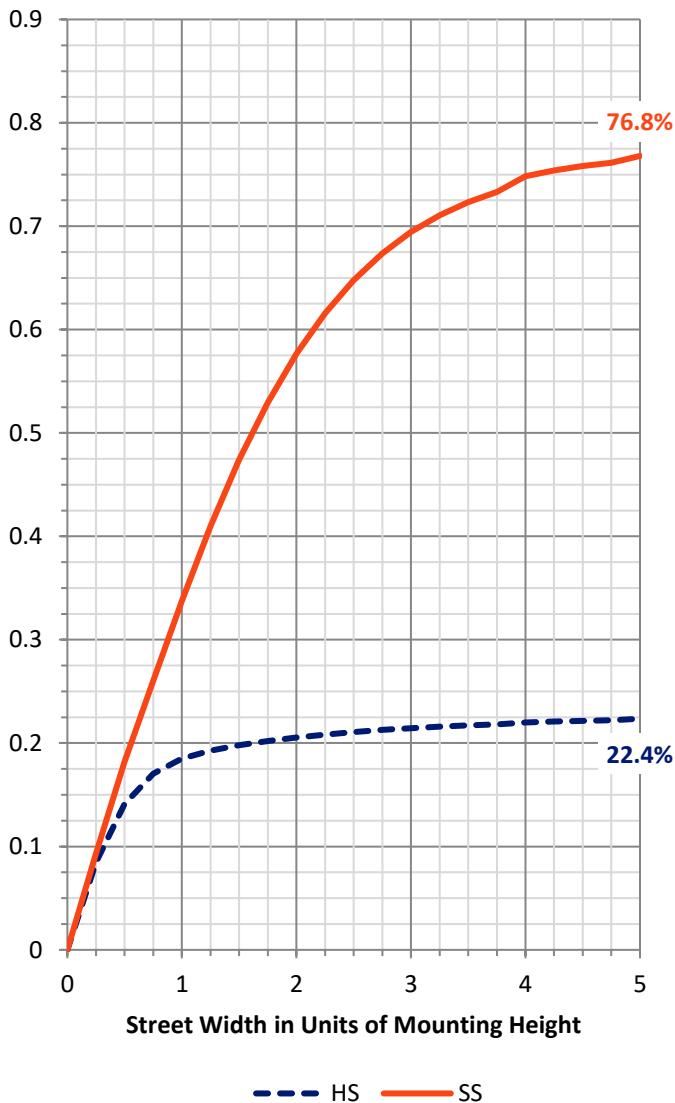
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1411.2   | 0.0    | 1411.2 |
|                    | % Fixture | 22.9     | 0.0    | 22.9   |
| <b>Street Side</b> | Lumens    | 4757.8   | 0.0    | 4757.8 |
|                    | % Fixture | 77.1     | 0.0    | 77.1   |
| <b>Total</b>       | Lumens    | 6169.0   | 0.0    | 6169.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.3   | 1.1       |
| 10°-20°   | 205.3  | 3.3       |
| 20°-30°   | 346.8  | 5.6       |
| 30°-40°   | 475.3  | 7.7       |
| 40°-50°   | 700.0  | 11.3      |
| 50°-60°   | 1101.2 | 17.9      |
| 60°-70°   | 1585.1 | 25.7      |
| 70°-80°   | 1441.3 | 23.4      |
| 80°-90°   | 248.8  | 4.0       |
| 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°    | 6169.0 | 100.0     |
| 0°-180°   | 6169.0 | 100.0     |

**Coefficient of Utilization**

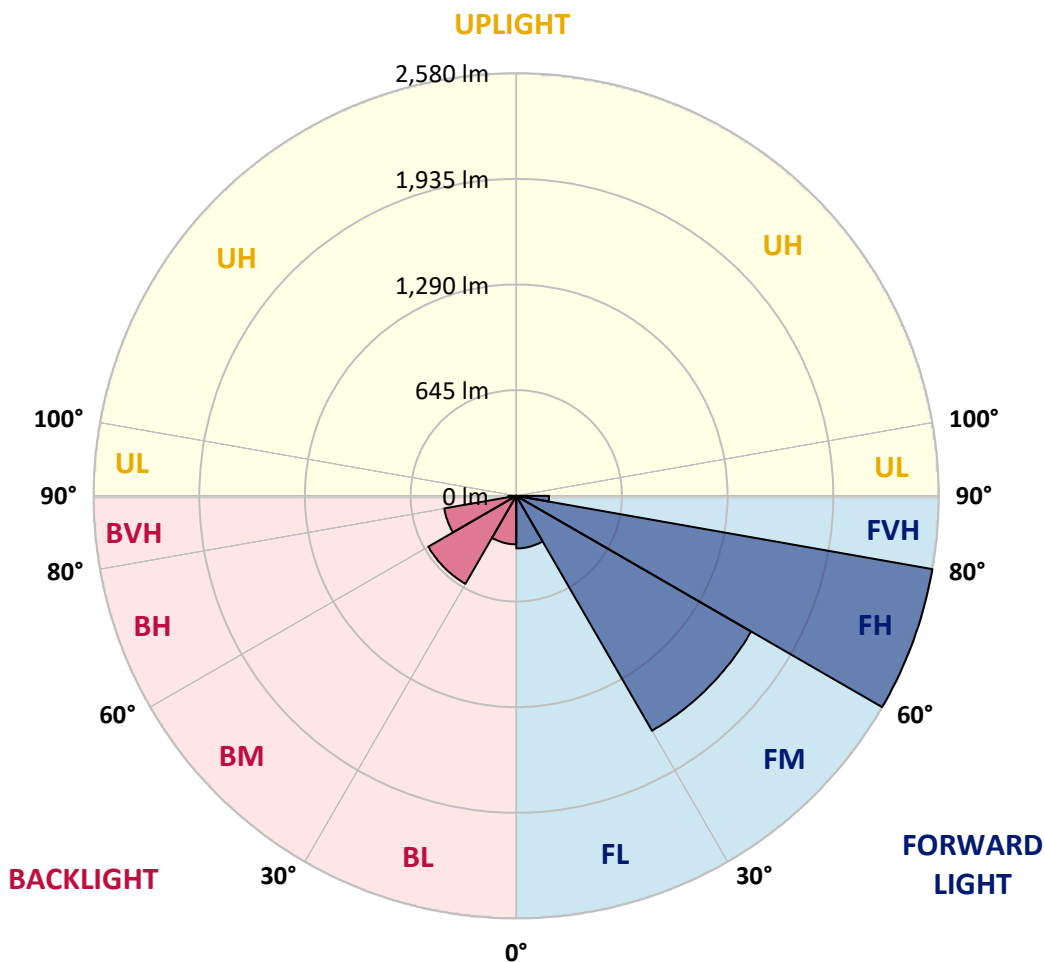


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 321.1  | 5.2       |                         |      |         |
| FM (30°-60°)   | 1656.3 | 26.8      |                         |      |         |
| FH (60°-80°)   | 2580.2 | 41.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 200.3  | 3.2       |                         |      | G2/225  |
| BL (0°-30°)    | 296.3  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 620.3  | 10.1      | B1/1000                 |      |         |
| BH (60°-80°)   | 446.2  | 7.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 48.5   | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 50°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 672.4  | 672.4  | 672.4  | 672.4  | 672.4  | 672.4  | 672.4  | 672.4  | 672.4  | 672.4  | 672.4  |
| 2.5°  | 687.5  | 687.5  | 689.0  | 686.0  | 686.0  | 678.5  | 678.5  | 676.9  | 673.9  | 672.4  | 669.4  |
| 5°    | 713.2  | 713.2  | 708.7  | 701.1  | 696.6  | 687.5  | 683.0  | 680.0  | 673.9  | 666.4  | 658.8  |
| 7.5°  | 740.4  | 737.4  | 734.4  | 722.3  | 713.2  | 696.6  | 689.0  | 684.5  | 672.4  | 661.8  | 657.3  |
| 10°   | 769.1  | 764.6  | 757.0  | 741.9  | 728.3  | 708.7  | 699.6  | 693.6  | 680.0  | 670.9  | 660.3  |
| 12.5° | 785.7  | 785.7  | 776.7  | 758.5  | 740.4  | 716.2  | 711.7  | 704.1  | 690.5  | 678.5  | 667.9  |
| 15°   | 802.4  | 803.9  | 794.8  | 773.6  | 752.5  | 734.4  | 726.8  | 722.3  | 707.2  | 689.0  | 675.4  |
| 17.5° | 819.0  | 817.5  | 808.4  | 784.2  | 761.6  | 744.9  | 740.4  | 734.4  | 719.2  | 702.6  | 689.0  |
| 20°   | 831.1  | 828.0  | 825.0  | 794.8  | 772.1  | 761.6  | 755.5  | 751.0  | 735.9  | 717.7  | 699.6  |
| 22.5° | 834.1  | 837.1  | 834.1  | 797.8  | 779.7  | 767.6  | 766.1  | 761.6  | 749.5  | 732.8  | 714.7  |
| 25°   | 835.6  | 837.1  | 841.6  | 806.9  | 790.3  | 781.2  | 778.2  | 775.2  | 766.1  | 752.5  | 728.3  |
| 27.5° | 843.2  | 844.7  | 844.7  | 812.9  | 803.9  | 797.8  | 794.8  | 794.8  | 790.3  | 773.6  | 749.5  |
| 30°   | 844.7  | 846.2  | 849.2  | 828.0  | 825.0  | 820.5  | 822.0  | 820.5  | 812.9  | 794.8  | 767.6  |
| 32.5° | 855.2  | 856.8  | 864.3  | 837.1  | 840.1  | 844.7  | 846.2  | 844.7  | 829.6  | 814.4  | 791.8  |
| 35°   | 890.0  | 888.5  | 894.5  | 859.8  | 856.8  | 858.3  | 862.8  | 861.3  | 855.2  | 841.6  | 826.5  |
| 37.5° | 1001.8 | 1001.8 | 985.2  | 912.7  | 890.0  | 887.0  | 890.0  | 897.5  | 899.1  | 887.0  | 874.9  |
| 40°   | 1198.2 | 1187.7 | 1178.6 | 1021.5 | 948.9  | 930.8  | 939.9  | 944.4  | 956.5  | 956.5  | 956.5  |
| 42.5° | 1400.7 | 1402.2 | 1399.2 | 1190.7 | 1054.7 | 1009.4 | 1010.9 | 1021.5 | 1047.1 | 1051.7 | 1065.3 |
| 45°   | 1580.5 | 1591.1 | 1613.8 | 1387.1 | 1210.3 | 1109.1 | 1098.5 | 1109.1 | 1145.4 | 1175.6 | 1210.3 |
| 47.5° | 1721.1 | 1709.0 | 1758.8 | 1592.6 | 1388.6 | 1245.1 | 1217.9 | 1220.9 | 1270.8 | 1319.1 | 1373.5 |
| 50°   | 1841.9 | 1845.0 | 1867.6 | 1802.7 | 1613.8 | 1399.2 | 1362.9 | 1356.9 | 1427.9 | 1479.3 | 1571.5 |
| 52.5° | 1977.9 | 1968.9 | 2002.1 | 1987.0 | 1832.9 | 1588.1 | 1530.7 | 1512.5 | 1589.6 | 1662.1 | 1761.9 |
| 55°   | 2042.9 | 2052.0 | 2120.0 | 2157.7 | 2039.9 | 1757.3 | 1693.9 | 1699.9 | 1781.5 | 1858.6 | 1997.6 |
| 57.5° | 2157.7 | 2166.8 | 2245.4 | 2324.0 | 2224.2 | 1937.1 | 1881.2 | 1881.2 | 1973.4 | 2059.5 | 2274.1 |
| 60°   | 2314.9 | 2316.4 | 2396.5 | 2532.5 | 2385.9 | 2110.9 | 2074.6 | 2073.1 | 2172.9 | 2272.6 | 2600.5 |
| 62.5° | 2384.4 | 2402.5 | 2521.9 | 2698.7 | 2597.5 | 2324.0 | 2281.7 | 2293.7 | 2382.9 | 2499.2 | 2964.6 |
| 65°   | 2290.7 | 2330.0 | 2579.3 | 2810.5 | 2786.3 | 2546.1 | 2529.5 | 2546.1 | 2600.5 | 2725.9 | 3349.9 |
| 67.5° | 1981.0 | 2033.8 | 2473.6 | 2886.1 | 2937.4 | 2803.0 | 2778.8 | 2775.8 | 2810.5 | 2951.0 | 3593.2 |
| 70°   | 1820.8 | 1852.5 | 2194.0 | 2914.8 | 3058.3 | 3062.9 | 3062.9 | 3043.2 | 3038.7 | 3141.4 | 3615.9 |
| 72.5° | 1498.9 | 1532.2 | 1851.0 | 2754.6 | 3173.2 | 3410.4 | 3445.1 | 3372.6 | 3260.8 | 3239.6 | 3236.6 |
| 75°   | 1068.3 | 1092.5 | 1367.5 | 2166.8 | 3026.6 | 3744.3 | 3813.8 | 3673.3 | 3362.0 | 3025.1 | 2360.2 |
| 76°   | 744.9  | 779.7  | 1068.3 | 1851.0 | 2842.2 | 3750.4 | 3859.2 | 3696.0 | 3294.0 | 2840.7 | 1944.7 |
| 77.5° | 377.8  | 389.8  | 618.0  | 1243.6 | 2378.4 | 3578.1 | 3683.9 | 3501.0 | 2997.9 | 2295.2 | 1234.5 |
| 80°   | 143.5  | 148.1  | 220.6  | 453.3  | 1305.5 | 2778.8 | 2819.6 | 2573.3 | 1984.0 | 980.7  | 444.2  |
| 82.5° | 75.6   | 78.6   | 123.9  | 223.6  | 536.4  | 1527.6 | 1724.1 | 1435.5 | 778.2  | 294.7  | 129.9  |
| 85°   | 37.8   | 40.8   | 72.5   | 136.0  | 265.9  | 477.5  | 553.0  | 522.8  | 258.4  | 111.8  | 48.4   |
| 87.5° | 15.1   | 18.1   | 36.3   | 60.4   | 107.3  | 93.7   | 104.3  | 134.5  | 83.1   | 52.9   | 16.6   |
| 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°    | 672.4  | 672.4  | 672.4  | 672.4 | 672.4 | 672.4 | 672.4 | 672.4 | 672.4 | 672.4 | 672.4 |
| 2.5°  | 669.4  | 667.9  | 669.4  | 667.9 | 669.4 | 669.4 | 670.9 | 667.9 | 667.9 | 670.9 | 666.4 |
| 5°    | 658.8  | 657.3  | 658.8  | 661.8 | 663.3 | 666.4 | 672.4 | 670.9 | 673.9 | 676.9 | 678.5 |
| 7.5°  | 654.3  | 652.8  | 657.3  | 658.8 | 663.3 | 669.4 | 678.5 | 684.5 | 687.5 | 693.6 | 690.5 |
| 10°   | 658.8  | 658.8  | 664.9  | 669.4 | 676.9 | 684.5 | 692.1 | 698.1 | 705.6 | 710.2 | 708.7 |
| 12.5° | 666.4  | 664.9  | 675.4  | 681.5 | 692.1 | 699.6 | 705.6 | 708.7 | 714.7 | 720.8 | 719.2 |
| 15°   | 673.9  | 675.4  | 690.5  | 702.6 | 714.7 | 717.7 | 719.2 | 716.2 | 719.2 | 722.3 | 722.3 |
| 17.5° | 689.0  | 690.5  | 707.2  | 720.8 | 731.3 | 728.3 | 720.8 | 713.2 | 713.2 | 714.7 | 716.2 |
| 20°   | 701.1  | 704.1  | 723.8  | 735.9 | 741.9 | 729.8 | 717.7 | 708.7 | 704.1 | 705.6 | 704.1 |
| 22.5° | 714.7  | 720.8  | 740.4  | 746.4 | 737.4 | 722.3 | 707.2 | 695.1 | 695.1 | 696.6 | 696.6 |
| 25°   | 731.3  | 734.4  | 748.0  | 744.9 | 728.3 | 705.6 | 693.6 | 689.0 | 687.5 | 689.0 | 690.5 |
| 27.5° | 746.4  | 748.0  | 755.5  | 734.4 | 702.6 | 678.5 | 673.9 | 675.4 | 676.9 | 678.5 | 680.0 |
| 30°   | 766.1  | 769.1  | 761.6  | 719.2 | 670.9 | 643.7 | 643.7 | 652.8 | 655.8 | 660.3 | 658.8 |
| 32.5° | 790.3  | 793.3  | 770.6  | 699.6 | 630.1 | 602.9 | 604.4 | 618.0 | 627.1 | 630.1 | 631.6 |
| 35°   | 831.1  | 825.0  | 776.7  | 672.4 | 586.3 | 553.0 | 554.5 | 571.2 | 583.3 | 587.8 | 584.8 |
| 37.5° | 880.9  | 879.4  | 785.7  | 637.7 | 531.9 | 501.7 | 503.2 | 510.7 | 522.8 | 524.3 | 525.8 |
| 40°   | 964.0  | 951.9  | 800.8  | 592.3 | 477.5 | 448.8 | 445.8 | 450.3 | 448.8 | 451.8 | 453.3 |
| 42.5° | 1083.4 | 1051.7 | 820.5  | 540.9 | 429.1 | 398.9 | 395.9 | 388.3 | 379.3 | 370.2 | 365.7 |
| 45°   | 1223.9 | 1174.1 | 844.7  | 488.1 | 379.3 | 352.1 | 344.5 | 335.4 | 317.3 | 297.7 | 291.6 |
| 47.5° | 1405.3 | 1310.1 | 871.9  | 435.2 | 332.4 | 311.3 | 305.2 | 291.6 | 270.5 | 247.8 | 243.3 |
| 50°   | 1591.1 | 1470.2 | 899.1  | 391.4 | 294.7 | 282.6 | 276.5 | 262.9 | 235.7 | 214.6 | 210.0 |
| 52.5° | 1807.2 | 1628.9 | 927.8  | 352.1 | 261.4 | 261.4 | 256.9 | 235.7 | 210.0 | 190.4 | 187.4 |
| 55°   | 2056.5 | 1792.1 | 973.1  | 314.3 | 237.2 | 243.3 | 237.2 | 216.1 | 191.9 | 178.3 | 176.8 |
| 57.5° | 2354.2 | 1999.1 | 1030.5 | 273.5 | 216.1 | 220.6 | 220.6 | 205.5 | 188.9 | 179.8 | 178.3 |
| 60°   | 2653.4 | 2209.1 | 1066.8 | 243.3 | 199.5 | 204.0 | 213.1 | 205.5 | 194.9 | 190.4 | 188.9 |
| 62.5° | 2940.5 | 2423.7 | 1004.8 | 217.6 | 182.8 | 196.4 | 219.1 | 220.6 | 210.0 | 211.5 | 211.5 |
| 65°   | 3155.0 | 2586.9 | 812.9  | 194.9 | 172.3 | 201.0 | 237.2 | 238.7 | 220.6 | 216.1 | 214.6 |
| 67.5° | 3229.1 | 2632.2 | 547.0  | 179.8 | 166.2 | 204.0 | 258.4 | 252.3 | 220.6 | 211.5 | 207.0 |
| 70°   | 3088.5 | 2466.0 | 355.1  | 166.2 | 157.1 | 201.0 | 275.0 | 259.9 | 219.1 | 205.5 | 199.5 |
| 72.5° | 2589.9 | 2103.3 | 237.2  | 154.1 | 148.1 | 197.9 | 285.6 | 259.9 | 214.6 | 194.9 | 188.9 |
| 75°   | 1798.1 | 1437.0 | 176.8  | 139.0 | 134.5 | 193.4 | 288.6 | 255.4 | 204.0 | 182.8 | 178.3 |
| 76°   | 1443.0 | 1077.4 | 160.2  | 133.0 | 128.4 | 190.4 | 287.1 | 250.8 | 196.4 | 176.8 | 172.3 |
| 77.5° | 911.1  | 619.5  | 134.5  | 122.4 | 119.4 | 184.3 | 281.1 | 240.3 | 185.9 | 166.2 | 161.7 |
| 80°   | 318.8  | 226.7  | 102.7  | 99.7  | 101.2 | 170.7 | 264.4 | 219.1 | 164.7 | 146.6 | 140.5 |
| 82.5° | 126.9  | 104.3  | 77.1   | 77.1  | 80.1  | 146.6 | 238.7 | 193.4 | 143.5 | 120.9 | 111.8 |
| 85°   | 49.9   | 45.3   | 54.4   | 54.4  | 57.4  | 119.4 | 199.5 | 151.1 | 98.2  | 75.6  | 72.5  |
| 87.5° | 15.1   | 21.2   | 24.2   | 25.7  | 27.2  | 60.4  | 113.3 | 66.5  | 43.8  | 31.7  | 25.7  |
| 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)