

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: P595546

Luminaire Tested: **ISW-PA1B-735-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISW-PA1B-735-U-T3  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4767 lumens  
Efficiency: N/A  
Efficacy: 131.0 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

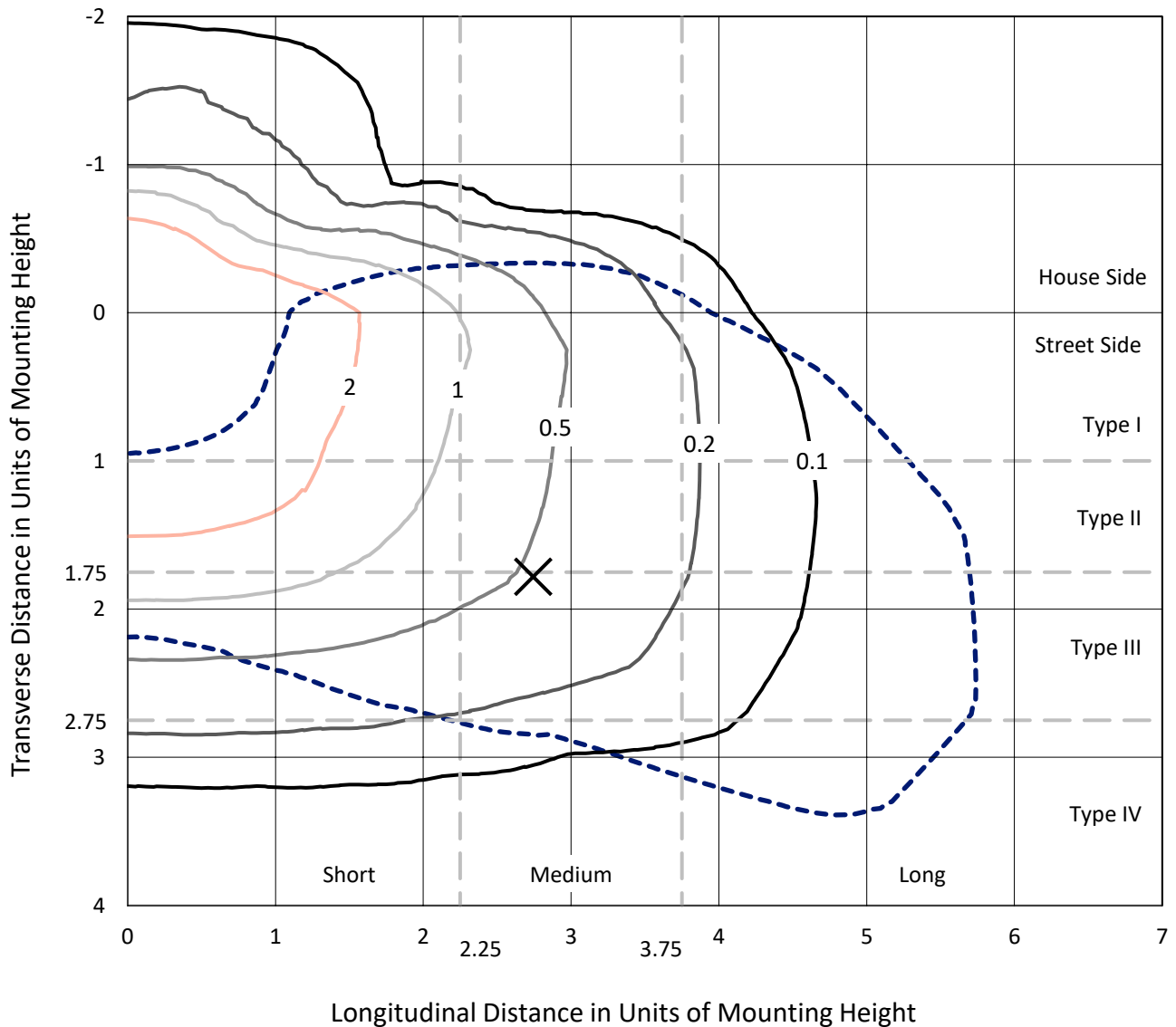
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

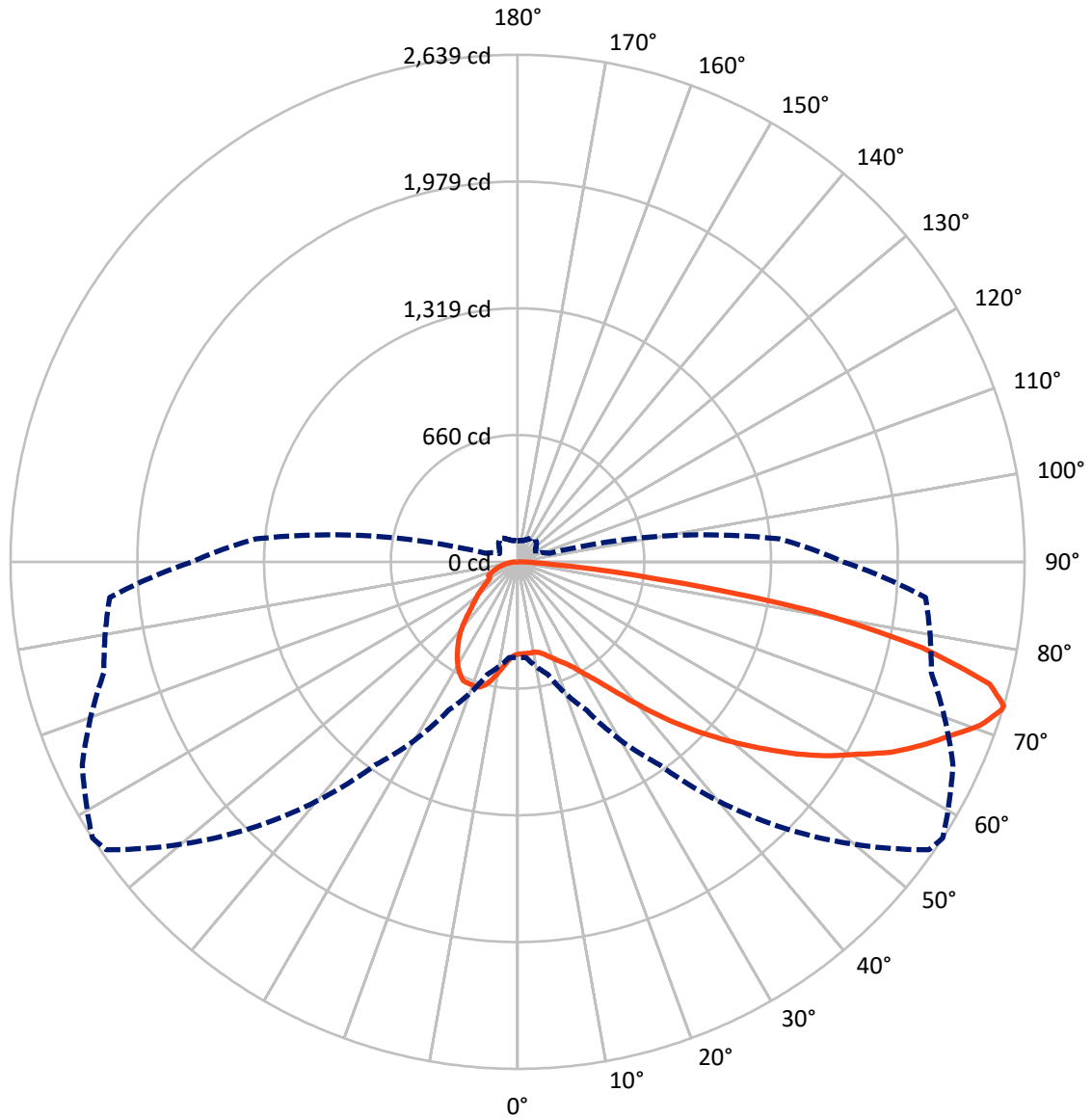
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1137.2   | 0.0    | 1137.2 |
|                    | % Fixture | 23.9     | 0.0    | 23.9   |
| <b>Street Side</b> | Lumens    | 3629.8   | 0.0    | 3629.8 |
|                    | % Fixture | 76.1     | 0.0    | 76.1   |
| <b>Total</b>       | Lumens    | 4767.0   | 0.0    | 4767.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.9   | 1.0       |
| 10°-20°   | 157.7  | 3.3       |
| 20°-30°   | 291.1  | 6.1       |
| 30°-40°   | 449.5  | 9.4       |
| 40°-50°   | 676.7  | 14.2      |
| 50°-60°   | 990.4  | 20.8      |
| 60°-70°   | 1169.6 | 24.5      |
| 70°-80°   | 837.3  | 17.6      |
| 80°-90°   | 146.7  | 3.1       |
| 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°    | 4767.0 | 100.0     |
| 0°-180°   | 4767.0 | 100.0     |

**Coefficient of Utilization**

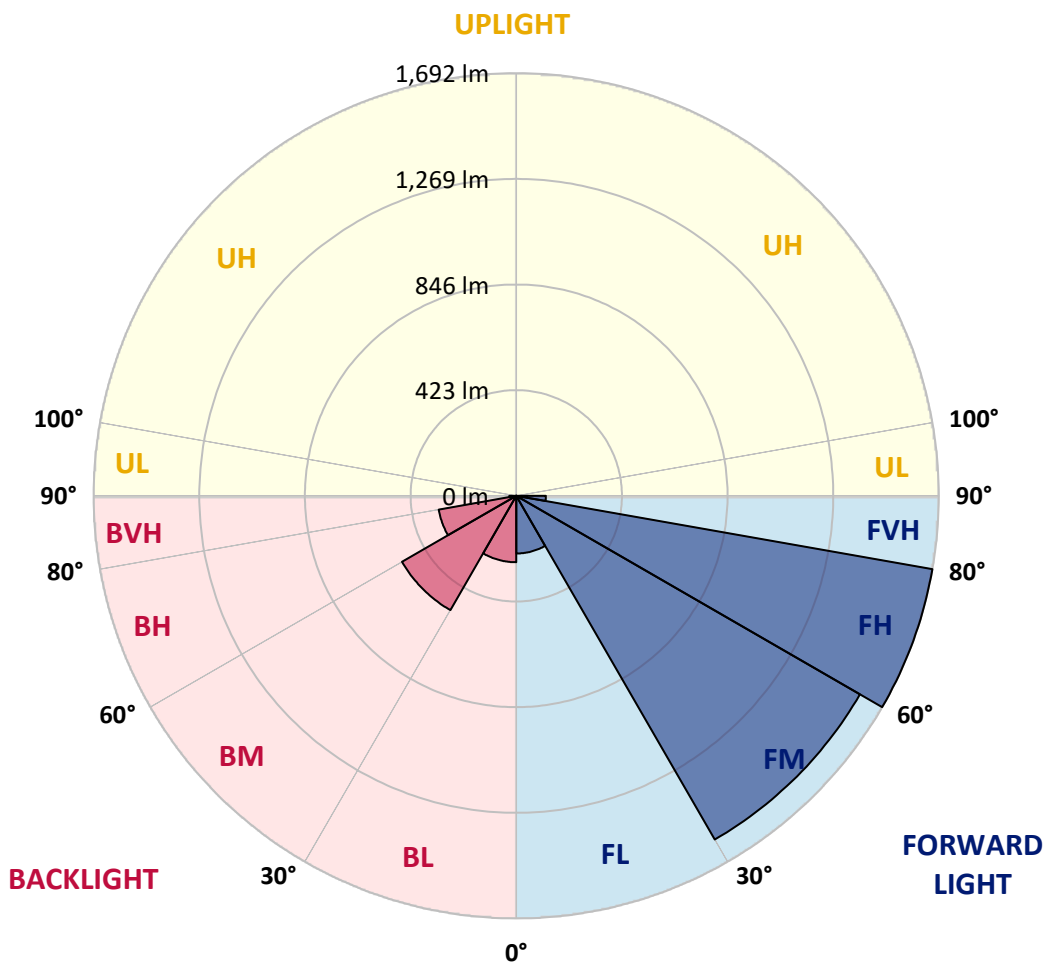


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 231.0  | 4.8       |                         |      |         |
| FM (30°-60°)   | 1588.5 | 33.3      |                         |      |         |
| FH (60°-80°)   | 1691.6 | 35.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 118.7  | 2.5       |                         |      | G2/225  |
| BL (0°-30°)    | 265.8  | 5.6       | B1/500                  |      |         |
| BM (30°-60°)   | 528.1  | 11.1      | B1/1000                 |      |         |
| BH (60°-80°)   | 315.3  | 6.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 28.0   | 0.6       |                         |      | 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°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 480.3  | 480.3  | 480.3  | 480.3  | 480.3  | 480.3  | 480.3  | 480.3  | 480.3  | 480.3  | 480.3  |
| 2.5°  | 474.4  | 476.8  | 475.6  | 476.8  | 480.3  | 477.9  | 477.9  | 479.1  | 480.3  | 479.1  | 481.4  |
| 5°    | 454.6  | 455.7  | 458.1  | 462.7  | 470.9  | 473.3  | 479.1  | 479.1  | 481.4  | 483.8  | 487.3  |
| 7.5°  | 421.8  | 424.2  | 428.9  | 433.5  | 447.6  | 461.6  | 476.8  | 479.1  | 487.3  | 493.1  | 495.5  |
| 10°   | 416.0  | 418.3  | 419.5  | 426.5  | 440.5  | 454.6  | 473.3  | 477.9  | 493.1  | 502.5  | 513.0  |
| 12.5° | 410.2  | 412.5  | 416.0  | 425.4  | 442.9  | 458.1  | 477.9  | 482.6  | 501.3  | 520.0  | 532.9  |
| 15°   | 414.8  | 416.0  | 419.5  | 428.9  | 446.4  | 467.4  | 493.1  | 496.6  | 517.7  | 541.0  | 560.9  |
| 17.5° | 426.5  | 427.7  | 426.5  | 434.7  | 451.1  | 475.6  | 510.7  | 516.5  | 542.2  | 565.6  | 585.4  |
| 20°   | 453.4  | 454.6  | 449.9  | 449.9  | 461.6  | 486.1  | 529.4  | 537.5  | 569.1  | 594.8  | 614.7  |
| 22.5° | 511.8  | 509.5  | 497.8  | 482.6  | 482.6  | 502.5  | 550.4  | 562.1  | 601.8  | 622.8  | 640.4  |
| 25°   | 594.8  | 594.8  | 576.1  | 548.1  | 529.4  | 527.0  | 574.9  | 587.8  | 634.5  | 660.2  | 670.8  |
| 27.5° | 695.3  | 696.5  | 666.1  | 628.7  | 592.5  | 574.9  | 610.0  | 622.8  | 675.4  | 702.3  | 705.8  |
| 30°   | 784.1  | 785.3  | 754.9  | 719.8  | 675.4  | 636.9  | 656.7  | 670.8  | 731.5  | 752.6  | 740.9  |
| 32.5° | 872.9  | 874.1  | 853.0  | 805.1  | 758.4  | 710.5  | 716.3  | 724.5  | 786.4  | 806.3  | 787.6  |
| 35°   | 950.0  | 953.5  | 932.5  | 896.3  | 847.2  | 804.0  | 793.5  | 794.6  | 850.7  | 863.6  | 839.0  |
| 37.5° | 1028.3 | 1028.3 | 1015.5 | 981.6  | 939.5  | 891.6  | 877.6  | 881.1  | 931.3  | 944.2  | 909.1  |
| 40°   | 1127.7 | 1132.3 | 1125.3 | 1083.3 | 1035.3 | 995.6  | 981.6  | 986.3  | 1041.2 | 1034.2 | 996.8  |
| 42.5° | 1248.0 | 1258.5 | 1246.9 | 1201.3 | 1149.9 | 1105.5 | 1105.5 | 1105.5 | 1152.2 | 1153.4 | 1097.3 |
| 45°   | 1402.3 | 1402.3 | 1390.6 | 1350.9 | 1283.1 | 1238.7 | 1223.5 | 1227.0 | 1267.9 | 1272.6 | 1207.1 |
| 47.5° | 1530.8 | 1542.5 | 1529.6 | 1500.4 | 1446.7 | 1404.6 | 1356.7 | 1350.9 | 1384.7 | 1384.7 | 1328.7 |
| 50°   | 1634.8 | 1655.8 | 1645.3 | 1658.2 | 1619.6 | 1598.6 | 1500.4 | 1484.1 | 1495.8 | 1507.4 | 1445.5 |
| 52.5° | 1721.3 | 1737.6 | 1734.1 | 1771.5 | 1790.2 | 1801.9 | 1646.5 | 1620.8 | 1630.1 | 1629.0 | 1572.9 |
| 55°   | 1727.1 | 1733.0 | 1785.6 | 1869.7 | 1943.3 | 1998.2 | 1793.7 | 1765.7 | 1756.3 | 1751.7 | 1708.4 |
| 57.5° | 1693.2 | 1696.7 | 1801.9 | 1901.2 | 2061.3 | 2124.4 | 1932.8 | 1904.7 | 1891.9 | 1875.5 | 1858.0 |
| 60°   | 1611.4 | 1629.0 | 1766.9 | 1919.9 | 2131.4 | 2222.6 | 2062.5 | 2033.3 | 2023.9 | 1988.9 | 2028.6 |
| 62.5° | 1507.4 | 1515.6 | 1653.5 | 1881.4 | 2140.8 | 2264.7 | 2199.2 | 2181.7 | 2152.5 | 2102.2 | 2180.5 |
| 65°   | 1360.2 | 1359.0 | 1480.6 | 1768.0 | 2092.9 | 2285.7 | 2314.9 | 2305.6 | 2269.3 | 2182.9 | 2316.1 |
| 67.5° | 1117.1 | 1144.0 | 1263.2 | 1567.0 | 1977.2 | 2306.7 | 2432.9 | 2421.3 | 2364.0 | 2255.3 | 2380.4 |
| 70°   | 851.9  | 868.2  | 1003.8 | 1265.5 | 1747.0 | 2249.5 | 2548.6 | 2552.1 | 2448.1 | 2270.5 | 2352.3 |
| 72.5° | 543.4  | 571.4  | 678.9  | 922.0  | 1398.8 | 2036.8 | 2617.6 | 2633.9 | 2494.9 | 2249.5 | 2178.2 |
| 73°   | 497.8  | 500.1  | 605.3  | 853.0  | 1290.1 | 1960.8 | 2612.9 | 2638.6 | 2499.5 | 2228.4 | 2130.3 |
| 75°   | 296.8  | 309.7  | 372.8  | 566.8  | 920.8  | 1575.2 | 2486.7 | 2538.1 | 2475.0 | 2135.0 | 1867.4 |
| 77.5° | 139.1  | 148.4  | 183.5  | 299.2  | 501.3  | 947.7  | 2090.6 | 2151.3 | 2193.4 | 1868.5 | 1423.3 |
| 80°   | 73.6   | 74.8   | 90.0   | 150.7  | 268.8  | 390.3  | 1457.2 | 1557.7 | 1617.3 | 1406.9 | 957.0  |
| 82.5° | 61.9   | 61.9   | 70.1   | 97.0   | 171.8  | 151.9  | 600.6  | 715.2  | 876.4  | 693.0  | 376.3  |
| 85°   | 50.2   | 51.4   | 70.1   | 72.5   | 122.7  | 78.3   | 143.7  | 180.0  | 340.1  | 306.2  | 42.1   |
| 87.5° | 16.4   | 18.7   | 39.7   | 51.4   | 65.4   | 30.4   | 36.2   | 39.7   | 39.7   | 58.4   | 14.0   |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 480.3  | 480.3  | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 | 480.3 |
| 2.5°  | 482.6  | 482.6  | 483.8 | 485.0 | 487.3 | 487.3 | 489.6 | 490.8 | 493.1 | 494.3 | 490.8 |
| 5°    | 487.3  | 489.6  | 492.0 | 499.0 | 507.2 | 514.2 | 521.2 | 527.0 | 532.9 | 536.4 | 535.2 |
| 7.5°  | 500.1  | 503.6  | 513.0 | 525.9 | 542.2 | 552.7 | 563.2 | 573.8 | 578.4 | 580.8 | 580.8 |
| 10°   | 517.7  | 524.7  | 542.2 | 563.2 | 581.9 | 598.3 | 606.5 | 613.5 | 615.8 | 618.2 | 615.8 |
| 12.5° | 542.2  | 551.6  | 578.4 | 605.3 | 626.3 | 634.5 | 633.4 | 624.0 | 611.2 | 608.8 | 606.5 |
| 15°   | 573.8  | 585.4  | 615.8 | 647.4 | 663.7 | 653.2 | 626.3 | 617.0 | 614.7 | 621.7 | 619.3 |
| 17.5° | 600.6  | 614.7  | 652.1 | 684.8 | 681.3 | 645.0 | 636.9 | 641.5 | 639.2 | 640.4 | 640.4 |
| 20°   | 626.3  | 646.2  | 685.9 | 708.1 | 677.8 | 654.4 | 647.4 | 641.5 | 634.5 | 636.9 | 634.5 |
| 22.5° | 659.1  | 673.1  | 718.7 | 719.8 | 673.1 | 654.4 | 639.2 | 627.5 | 625.2 | 626.3 | 627.5 |
| 25°   | 684.8  | 707.0  | 746.7 | 711.7 | 673.1 | 635.7 | 614.7 | 612.3 | 613.5 | 620.5 | 618.2 |
| 27.5° | 719.8  | 742.0  | 768.9 | 707.0 | 645.0 | 605.3 | 597.1 | 596.0 | 587.8 | 590.1 | 590.1 |
| 30°   | 752.6  | 779.4  | 780.6 | 707.0 | 610.0 | 579.6 | 567.9 | 546.9 | 529.4 | 532.9 | 531.7 |
| 32.5° | 797.0  | 820.3  | 782.9 | 678.9 | 570.3 | 545.7 | 514.2 | 481.4 | 473.3 | 477.9 | 479.1 |
| 35°   | 848.4  | 867.1  | 785.3 | 632.2 | 530.5 | 497.8 | 440.5 | 421.8 | 420.7 | 424.2 | 427.7 |
| 37.5° | 916.1  | 926.7  | 802.8 | 578.4 | 492.0 | 423.0 | 378.6 | 373.9 | 363.4 | 356.4 | 357.6 |
| 40°   | 999.1  | 986.3  | 836.7 | 530.5 | 446.4 | 355.2 | 336.5 | 323.7 | 303.8 | 284.0 | 287.5 |
| 42.5° | 1091.4 | 1055.2 | 847.2 | 492.0 | 384.5 | 313.2 | 295.6 | 275.8 | 251.2 | 230.2 | 229.0 |
| 45°   | 1190.8 | 1132.3 | 837.9 | 461.6 | 322.5 | 281.6 | 262.9 | 239.6 | 210.3 | 192.8 | 192.8 |
| 47.5° | 1308.8 | 1206.0 | 808.6 | 437.0 | 279.3 | 253.6 | 230.2 | 206.8 | 187.0 | 170.6 | 170.6 |
| 50°   | 1438.5 | 1291.3 | 787.6 | 393.8 | 248.9 | 226.7 | 203.3 | 184.6 | 169.4 | 156.6 | 156.6 |
| 52.5° | 1575.2 | 1371.9 | 770.1 | 330.7 | 222.0 | 202.2 | 185.8 | 170.6 | 157.8 | 141.4 | 139.1 |
| 55°   | 1714.3 | 1449.0 | 778.3 | 269.9 | 197.5 | 184.6 | 174.1 | 158.9 | 154.2 | 150.7 | 148.4 |
| 57.5° | 1859.2 | 1533.1 | 798.1 | 220.9 | 176.5 | 175.3 | 170.6 | 181.1 | 191.6 | 184.6 | 181.1 |
| 60°   | 1972.5 | 1598.6 | 800.5 | 185.8 | 163.6 | 184.6 | 208.0 | 211.5 | 183.5 | 167.1 | 165.9 |
| 62.5° | 2062.5 | 1660.5 | 745.5 | 161.3 | 167.1 | 217.4 | 222.0 | 187.0 | 158.9 | 151.9 | 151.9 |
| 65°   | 2109.2 | 1682.7 | 599.5 | 147.2 | 174.1 | 208.0 | 201.0 | 168.3 | 148.4 | 147.2 | 147.2 |
| 67.5° | 2085.9 | 1665.2 | 419.5 | 132.0 | 154.2 | 180.0 | 180.0 | 154.2 | 136.7 | 142.6 | 140.2 |
| 70°   | 1973.7 | 1578.7 | 276.9 | 119.2 | 135.6 | 162.4 | 167.1 | 143.7 | 127.4 | 130.9 | 127.4 |
| 72.5° | 1740.0 | 1424.5 | 182.3 | 105.2 | 116.9 | 143.7 | 155.4 | 132.0 | 116.9 | 115.7 | 112.2 |
| 73°   | 1694.4 | 1366.0 | 171.8 | 102.8 | 113.4 | 139.1 | 151.9 | 129.7 | 114.5 | 111.0 | 108.7 |
| 75°   | 1437.3 | 1139.3 | 129.7 | 92.3  | 100.5 | 125.0 | 141.4 | 121.5 | 105.2 | 100.5 | 98.2  |
| 77.5° | 1047.0 | 789.9  | 97.0  | 78.3  | 84.1  | 108.7 | 125.0 | 111.0 | 93.5  | 87.6  | 86.5  |
| 80°   | 653.2  | 430.0  | 72.5  | 63.1  | 66.6  | 91.1  | 109.8 | 99.3  | 80.6  | 73.6  | 72.5  |
| 82.5° | 255.9  | 140.2  | 50.2  | 46.7  | 49.1  | 68.9  | 92.3  | 86.5  | 67.8  | 61.9  | 58.4  |
| 85°   | 42.1   | 47.9   | 32.7  | 31.6  | 31.6  | 49.1  | 70.1  | 66.6  | 45.6  | 39.7  | 35.1  |
| 87.5° | 11.7   | 22.2   | 12.9  | 11.7  | 11.7  | 21.0  | 38.6  | 30.4  | 18.7  | 15.2  | 14.0  |
| 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)