

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: P595452

Luminaire Tested: **ISW-PA1A-735-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISW-PA1A-735-U-T2R  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
(1) 70 CRI, 3500K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3870 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

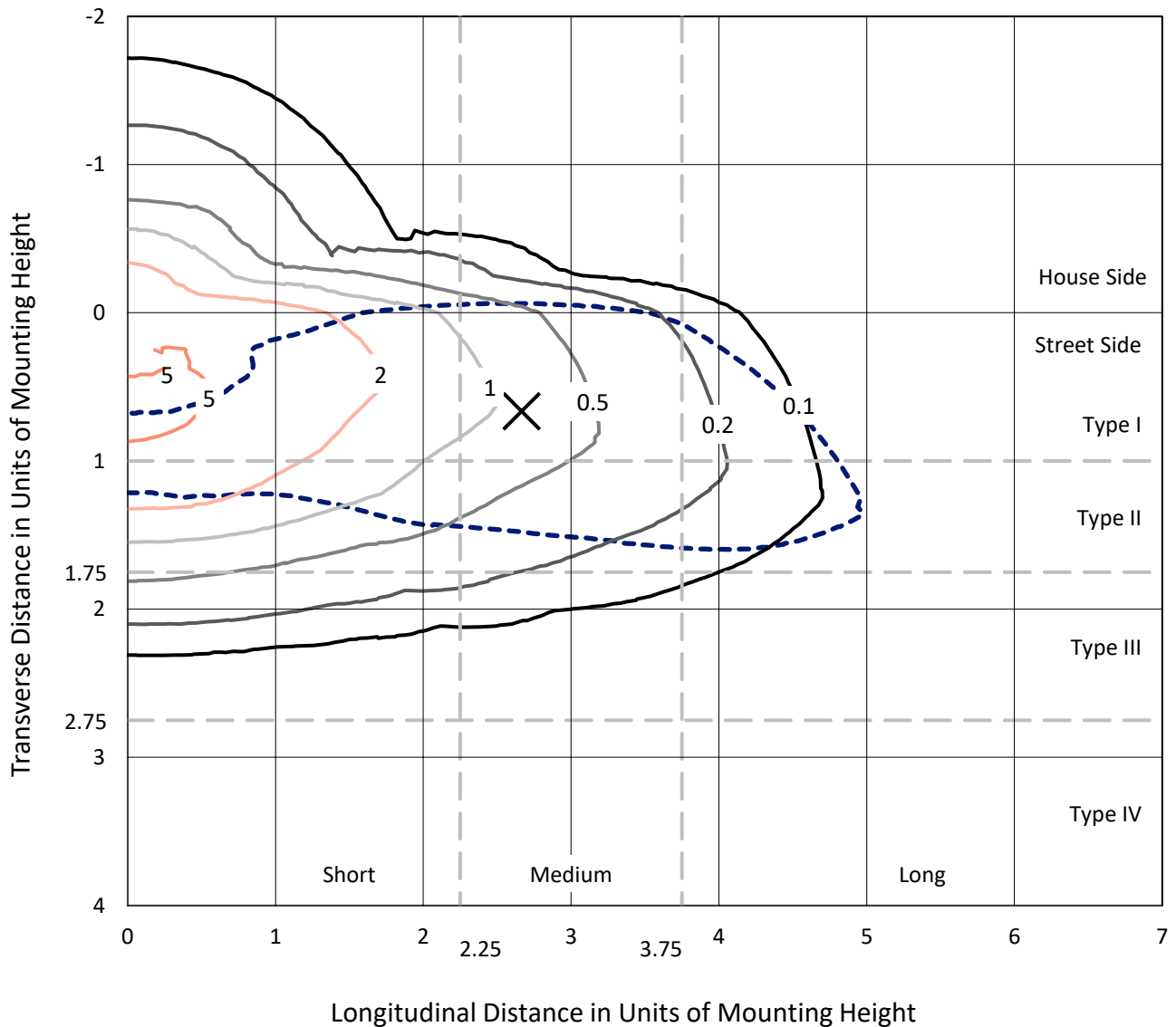
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

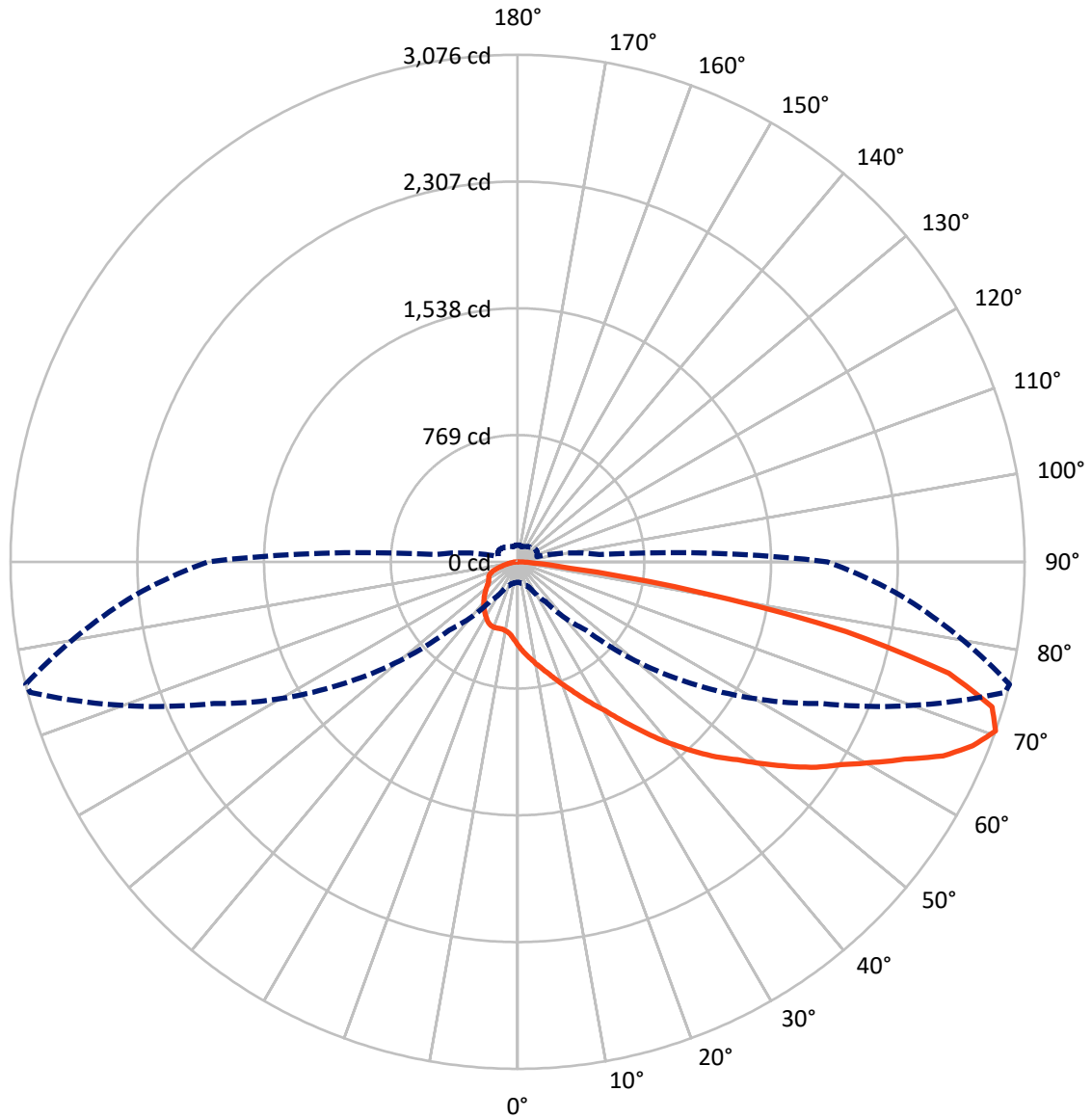
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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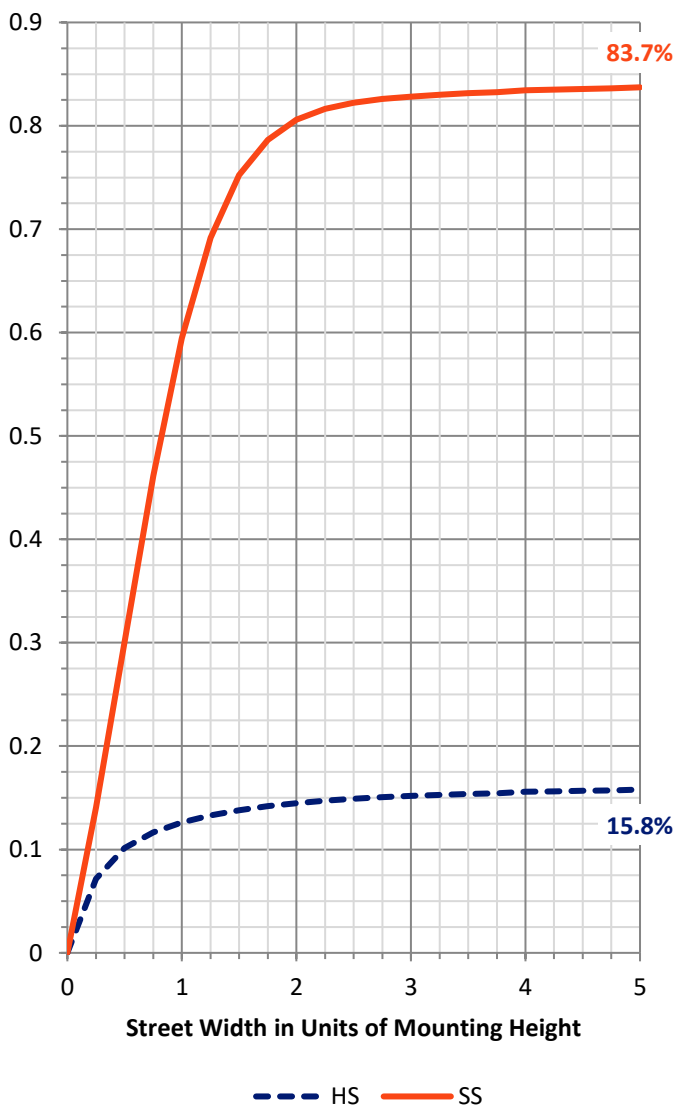
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 620.7    | 0.0    | 620.7  |
|                    | % Fixture | 16.0     | 0.0    | 16.0   |
| <b>Street Side</b> | Lumens    | 3249.3   | 0.0    | 3249.3 |
|                    | % Fixture | 84.0     | 0.0    | 84.0   |
| <b>Total</b>       | Lumens    | 3870.0   | 0.0    | 3870.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.5   | 1.3       |
| 10°-20°   | 163.3  | 4.2       |
| 20°-30°   | 300.9  | 7.8       |
| 30°-40°   | 504.2  | 13.0      |
| 40°-50°   | 716.4  | 18.5      |
| 50°-60°   | 827.1  | 21.4      |
| 60°-70°   | 760.3  | 19.6      |
| 70°-80°   | 479.4  | 12.4      |
| 80°-90°   | 69.0   | 1.8       |
| 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°    | 3870.0 | 100.0     |
| 0°-180°   | 3870.0 | 100.0     |

**Coefficient of Utilization**

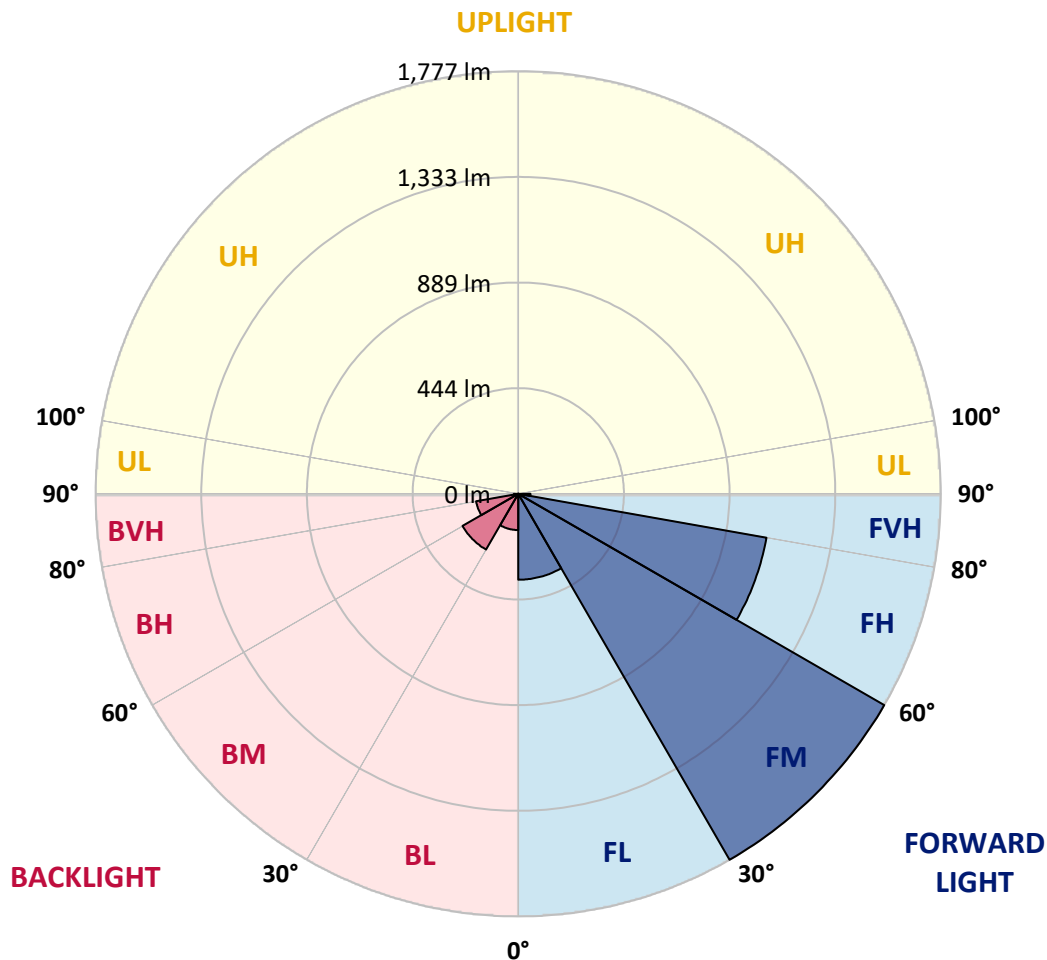


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 361.3  | 9.3       |                         |      |         |
| FM (30°-60°)   | 1777.0 | 45.9      |                         |      |         |
| FH (60°-80°)   | 1059.8 | 27.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 51.1   | 1.3       |                         |      | G1/100  |
| BL (0°-30°)    | 152.4  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 270.6  | 7.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 179.9  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 17.8   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 507.7  | 507.7  | 507.7  | 507.7  | 507.7  | 507.7  | 507.7  | 507.7  | 507.7  | 507.7  | 507.7  |
| 2.5°  | 611.1  | 610.2  | 607.4  | 602.7  | 599.0  | 587.8  | 572.9  | 559.9  | 540.3  | 538.4  | 518.9  |
| 5°    | 666.0  | 662.3  | 662.3  | 657.7  | 653.0  | 640.9  | 622.3  | 599.0  | 571.0  | 569.2  | 531.9  |
| 7.5°  | 692.1  | 693.1  | 691.2  | 687.5  | 688.4  | 678.2  | 661.4  | 638.1  | 599.9  | 598.0  | 549.6  |
| 10°   | 729.4  | 728.5  | 724.7  | 721.9  | 721.0  | 711.7  | 696.8  | 675.4  | 635.3  | 631.6  | 570.1  |
| 12.5° | 765.7  | 762.9  | 763.9  | 762.9  | 761.1  | 751.7  | 737.8  | 716.3  | 667.0  | 665.1  | 595.3  |
| 15°   | 786.2  | 785.3  | 791.8  | 793.7  | 801.1  | 792.7  | 780.6  | 756.4  | 711.7  | 704.2  | 625.1  |
| 17.5° | 799.3  | 798.3  | 804.8  | 819.8  | 833.7  | 833.7  | 830.0  | 803.9  | 754.5  | 749.0  | 658.6  |
| 20°   | 821.6  | 825.3  | 836.5  | 848.6  | 869.1  | 872.8  | 871.9  | 860.7  | 803.9  | 798.3  | 695.9  |
| 22.5° | 866.3  | 864.5  | 873.8  | 892.4  | 911.0  | 916.6  | 917.6  | 917.6  | 860.7  | 850.5  | 734.0  |
| 25°   | 962.3  | 957.6  | 950.2  | 948.3  | 970.7  | 969.7  | 966.9  | 973.5  | 920.4  | 912.9  | 777.8  |
| 27.5° | 1144.9 | 1134.6 | 1105.7 | 1048.0 | 1034.9 | 1039.6 | 1025.6 | 1026.6 | 988.4  | 979.0  | 815.1  |
| 30°   | 1318.1 | 1313.5 | 1286.4 | 1216.6 | 1143.0 | 1116.9 | 1092.7 | 1082.4 | 1063.8 | 1048.0 | 855.1  |
| 32.5° | 1474.6 | 1475.6 | 1442.9 | 1366.6 | 1291.1 | 1209.1 | 1167.2 | 1145.8 | 1153.2 | 1139.3 | 910.1  |
| 35°   | 1580.8 | 1572.4 | 1551.9 | 1500.7 | 1418.7 | 1340.5 | 1260.4 | 1212.9 | 1252.9 | 1237.1 | 965.1  |
| 37.5° | 1643.2 | 1636.7 | 1619.9 | 1583.6 | 1542.6 | 1467.2 | 1365.6 | 1293.0 | 1371.2 | 1347.9 | 1034.9 |
| 40°   | 1674.9 | 1665.6 | 1648.8 | 1633.9 | 1614.3 | 1573.4 | 1483.9 | 1384.3 | 1479.3 | 1458.8 | 1103.9 |
| 42.5° | 1678.6 | 1672.1 | 1662.8 | 1655.3 | 1661.9 | 1656.3 | 1599.4 | 1490.5 | 1592.9 | 1570.6 | 1183.0 |
| 45°   | 1675.8 | 1680.5 | 1669.3 | 1656.3 | 1669.3 | 1716.8 | 1716.8 | 1596.7 | 1705.6 | 1688.9 | 1258.5 |
| 47.5° | 1677.7 | 1673.0 | 1669.3 | 1665.6 | 1667.4 | 1732.7 | 1797.9 | 1696.3 | 1813.7 | 1794.1 | 1347.0 |
| 50°   | 1600.4 | 1606.9 | 1638.6 | 1652.5 | 1660.9 | 1736.4 | 1863.1 | 1804.4 | 1947.8 | 1923.6 | 1445.7 |
| 52.5° | 1354.5 | 1358.2 | 1502.6 | 1606.9 | 1640.4 | 1721.5 | 1908.7 | 1924.6 | 2080.1 | 2061.5 | 1551.9 |
| 55°   | 1043.3 | 1062.9 | 1199.8 | 1455.1 | 1593.9 | 1696.3 | 1922.7 | 2002.8 | 2215.2 | 2200.3 | 1659.1 |
| 57.5° | 858.9  | 861.7  | 940.8  | 1169.1 | 1446.7 | 1673.0 | 1936.7 | 2074.5 | 2336.3 | 2319.5 | 1770.8 |
| 60°   | 712.6  | 706.1  | 754.5  | 901.7  | 1201.7 | 1579.9 | 1939.5 | 2131.4 | 2477.0 | 2471.4 | 1886.4 |
| 62.5° | 523.5  | 531.0  | 577.6  | 702.4  | 939.9  | 1390.8 | 1925.5 | 2179.8 | 2644.6 | 2637.2 | 2014.9 |
| 65°   | 321.4  | 330.7  | 387.5  | 502.1  | 711.7  | 1103.9 | 1834.2 | 2204.9 | 2820.7 | 2837.5 | 2153.7 |
| 67.5° | 170.5  | 177.0  | 210.5  | 303.7  | 488.1  | 841.2  | 1614.3 | 2173.3 | 2969.7 | 2977.2 | 2286.9 |
| 70°   | 124.8  | 125.8  | 136.9  | 171.4  | 294.4  | 585.0  | 1285.5 | 2035.4 | 3061.0 | 3075.9 | 2330.7 |
| 72.5° | 109.0  | 109.9  | 114.6  | 123.0  | 160.2  | 356.8  | 921.3  | 1795.1 | 3022.8 | 3009.8 | 2257.1 |
| 75°   | 98.7   | 98.7   | 102.5  | 105.3  | 117.4  | 197.5  | 564.5  | 1469.0 | 2731.3 | 2702.4 | 1924.6 |
| 77.5° | 84.8   | 84.8   | 88.5   | 92.2   | 101.5  | 127.6  | 295.3  | 1089.0 | 2088.5 | 2039.1 | 1316.3 |
| 80°   | 68.0   | 68.0   | 72.7   | 77.3   | 89.4   | 95.9   | 144.4  | 728.5  | 1194.2 | 1121.6 | 599.0  |
| 82.5° | 46.6   | 50.3   | 58.7   | 64.3   | 74.5   | 68.0   | 84.8   | 314.9  | 376.3  | 326.0  | 135.1  |
| 85°   | 27.9   | 29.8   | 41.9   | 48.4   | 55.9   | 36.3   | 52.2   | 121.1  | 112.7  | 98.7   | 30.7   |
| 87.5° | 2.8    | 4.7    | 16.8   | 19.6   | 19.6   | 10.2   | 22.4   | 28.9   | 32.6   | 33.5   | 7.5    |
| 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°    | 507.7  | 507.7 | 507.7 | 507.7 | 507.7 | 507.7 | 507.7 | 507.7 | 507.7 | 507.7 | 507.7 |
| 2.5°  | 507.7  | 496.5 | 475.1 | 455.5 | 436.0 | 422.9 | 409.9 | 405.2 | 398.7 | 394.0 | 397.8 |
| 5°    | 512.3  | 489.1 | 448.1 | 413.6 | 390.3 | 372.6 | 364.2 | 359.6 | 355.8 | 354.9 | 354.0 |
| 7.5°  | 517.9  | 483.5 | 428.5 | 390.3 | 368.0 | 359.6 | 357.7 | 357.7 | 357.7 | 358.6 | 359.6 |
| 10°   | 530.0  | 485.3 | 418.3 | 377.3 | 365.2 | 363.3 | 364.2 | 368.0 | 368.0 | 368.9 | 368.9 |
| 12.5° | 544.0  | 490.0 | 410.8 | 375.4 | 368.0 | 368.9 | 369.8 | 371.7 | 371.7 | 374.5 | 373.5 |
| 15°   | 564.5  | 499.3 | 409.9 | 377.3 | 370.8 | 368.9 | 368.9 | 368.0 | 368.0 | 368.0 | 369.8 |
| 17.5° | 590.6  | 512.3 | 410.8 | 377.3 | 368.0 | 364.2 | 361.4 | 358.6 | 354.9 | 356.8 | 354.9 |
| 20°   | 616.7  | 528.2 | 410.8 | 372.6 | 360.5 | 351.2 | 342.8 | 338.1 | 333.5 | 332.6 | 333.5 |
| 22.5° | 649.3  | 546.8 | 406.1 | 362.4 | 344.7 | 331.6 | 319.5 | 313.0 | 305.5 | 302.7 | 300.9 |
| 25°   | 677.2  | 561.7 | 396.8 | 347.5 | 327.0 | 308.3 | 292.5 | 281.3 | 272.0 | 270.1 | 270.1 |
| 27.5° | 706.1  | 574.8 | 382.9 | 328.8 | 301.8 | 281.3 | 263.6 | 249.7 | 240.3 | 239.4 | 238.5 |
| 30°   | 733.1  | 585.9 | 364.2 | 308.3 | 279.5 | 255.2 | 234.7 | 222.6 | 214.3 | 209.6 | 206.8 |
| 32.5° | 768.5  | 600.8 | 346.5 | 287.8 | 253.4 | 229.2 | 210.5 | 200.3 | 189.1 | 181.6 | 178.9 |
| 35°   | 813.2  | 618.5 | 327.0 | 265.5 | 230.1 | 205.9 | 194.7 | 179.8 | 165.8 | 157.4 | 154.6 |
| 37.5° | 863.5  | 643.7 | 306.5 | 242.2 | 206.8 | 189.1 | 182.6 | 159.3 | 144.4 | 141.6 | 140.7 |
| 40°   | 925.9  | 667.9 | 283.2 | 218.0 | 184.4 | 179.8 | 168.6 | 144.4 | 136.9 | 136.0 | 135.1 |
| 42.5° | 988.4  | 694.0 | 260.8 | 193.8 | 166.7 | 168.6 | 152.8 | 140.7 | 134.1 | 132.3 | 131.3 |
| 45°   | 1061.0 | 720.1 | 238.5 | 172.3 | 152.8 | 152.8 | 144.4 | 136.9 | 131.3 | 129.5 | 129.5 |
| 47.5° | 1137.4 | 746.2 | 214.3 | 153.7 | 142.5 | 136.9 | 137.9 | 132.3 | 128.6 | 126.7 | 125.8 |
| 50°   | 1233.4 | 771.3 | 191.9 | 140.7 | 136.0 | 128.6 | 131.3 | 127.6 | 125.8 | 123.9 | 123.0 |
| 52.5° | 1323.7 | 782.5 | 171.4 | 133.2 | 132.3 | 124.8 | 125.8 | 123.9 | 123.0 | 120.2 | 119.2 |
| 55°   | 1412.2 | 779.7 | 155.6 | 129.5 | 127.6 | 123.9 | 122.0 | 121.1 | 120.2 | 117.4 | 116.4 |
| 57.5° | 1510.9 | 776.0 | 145.3 | 128.6 | 124.8 | 121.1 | 121.1 | 118.3 | 114.6 | 114.6 | 114.6 |
| 60°   | 1613.4 | 763.9 | 140.7 | 128.6 | 123.9 | 121.1 | 119.2 | 116.4 | 112.7 | 113.6 | 112.7 |
| 62.5° | 1728.9 | 740.6 | 137.9 | 131.3 | 124.8 | 120.2 | 118.3 | 114.6 | 109.9 | 110.9 | 109.9 |
| 65°   | 1830.5 | 693.1 | 136.0 | 134.1 | 126.7 | 121.1 | 116.4 | 111.8 | 106.2 | 107.1 | 106.2 |
| 67.5° | 1899.4 | 612.9 | 130.4 | 136.0 | 129.5 | 120.2 | 114.6 | 108.1 | 100.6 | 104.3 | 103.4 |
| 70°   | 1879.8 | 498.4 | 120.2 | 132.3 | 132.3 | 121.1 | 111.8 | 103.4 | 95.0  | 102.5 | 99.7  |
| 72.5° | 1728.0 | 374.5 | 100.6 | 119.2 | 130.4 | 121.1 | 106.2 | 95.9  | 88.5  | 93.2  | 87.6  |
| 75°   | 1418.7 | 254.3 | 80.1  | 95.0  | 122.0 | 122.0 | 101.5 | 88.5  | 79.2  | 76.4  | 74.5  |
| 77.5° | 885.0  | 158.4 | 62.4  | 69.9  | 102.5 | 121.1 | 96.9  | 79.2  | 66.1  | 64.3  | 62.4  |
| 80°   | 350.3  | 84.8  | 49.4  | 50.3  | 75.5  | 110.9 | 90.4  | 67.1  | 53.1  | 51.2  | 47.5  |
| 82.5° | 80.1   | 42.9  | 34.5  | 33.5  | 46.6  | 90.4  | 82.0  | 53.1  | 41.0  | 41.0  | 34.5  |
| 85°   | 24.2   | 22.4  | 22.4  | 21.4  | 23.3  | 46.6  | 63.3  | 36.3  | 27.9  | 19.6  | 16.8  |
| 87.5° | 6.5    | 9.3   | 8.4   | 7.5   | 7.5   | 6.5   | 20.5  | 9.3   | 5.6   | 2.8   | 1.9   |
| 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)