

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: P593989

Luminaire Tested: **ISC-PA1A-750-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P593989  
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: ISC-PA1A-750-U-T3  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 5000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4193 lumens  
Efficiency: N/A  
Efficacy: 145.1 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

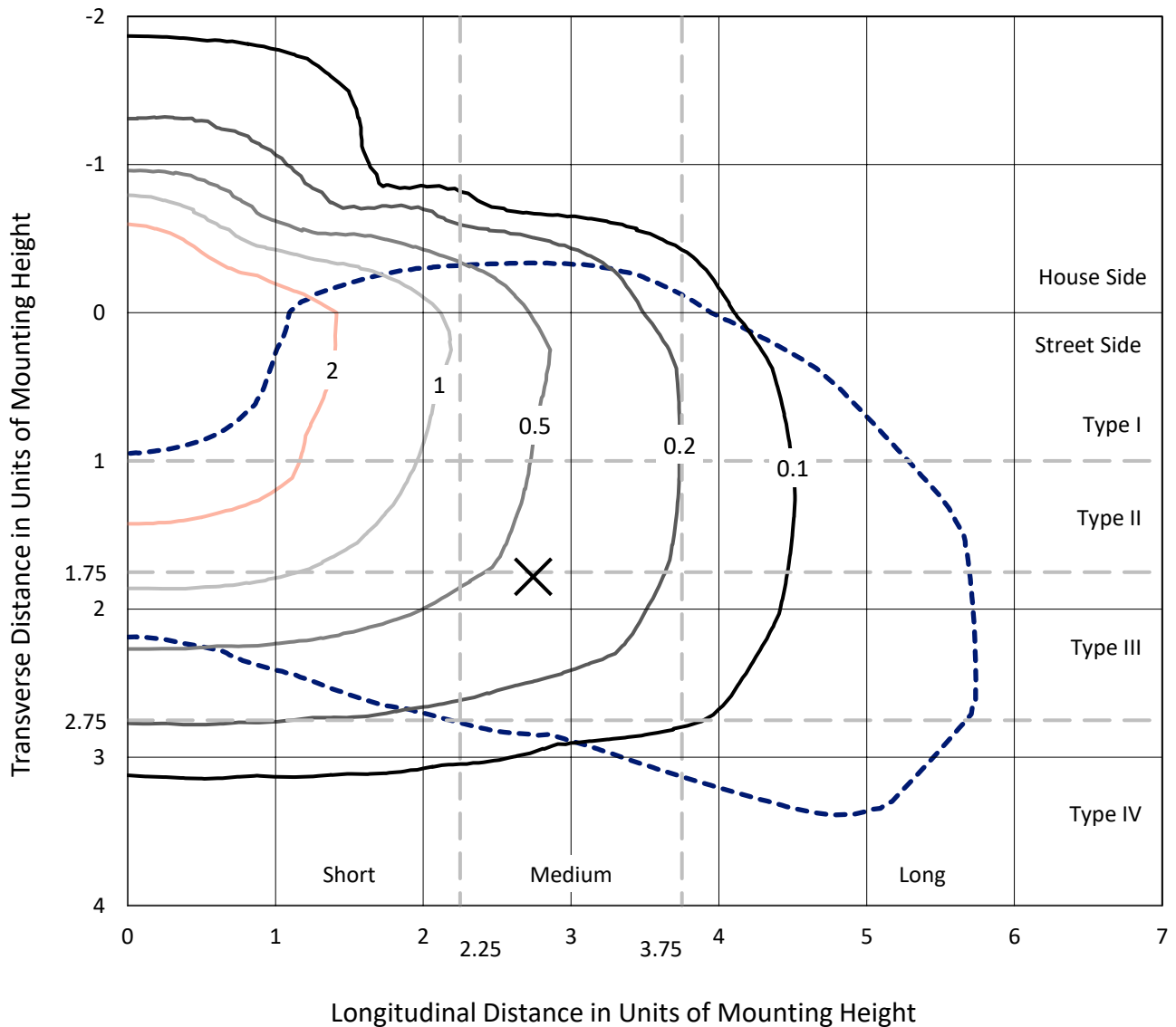
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

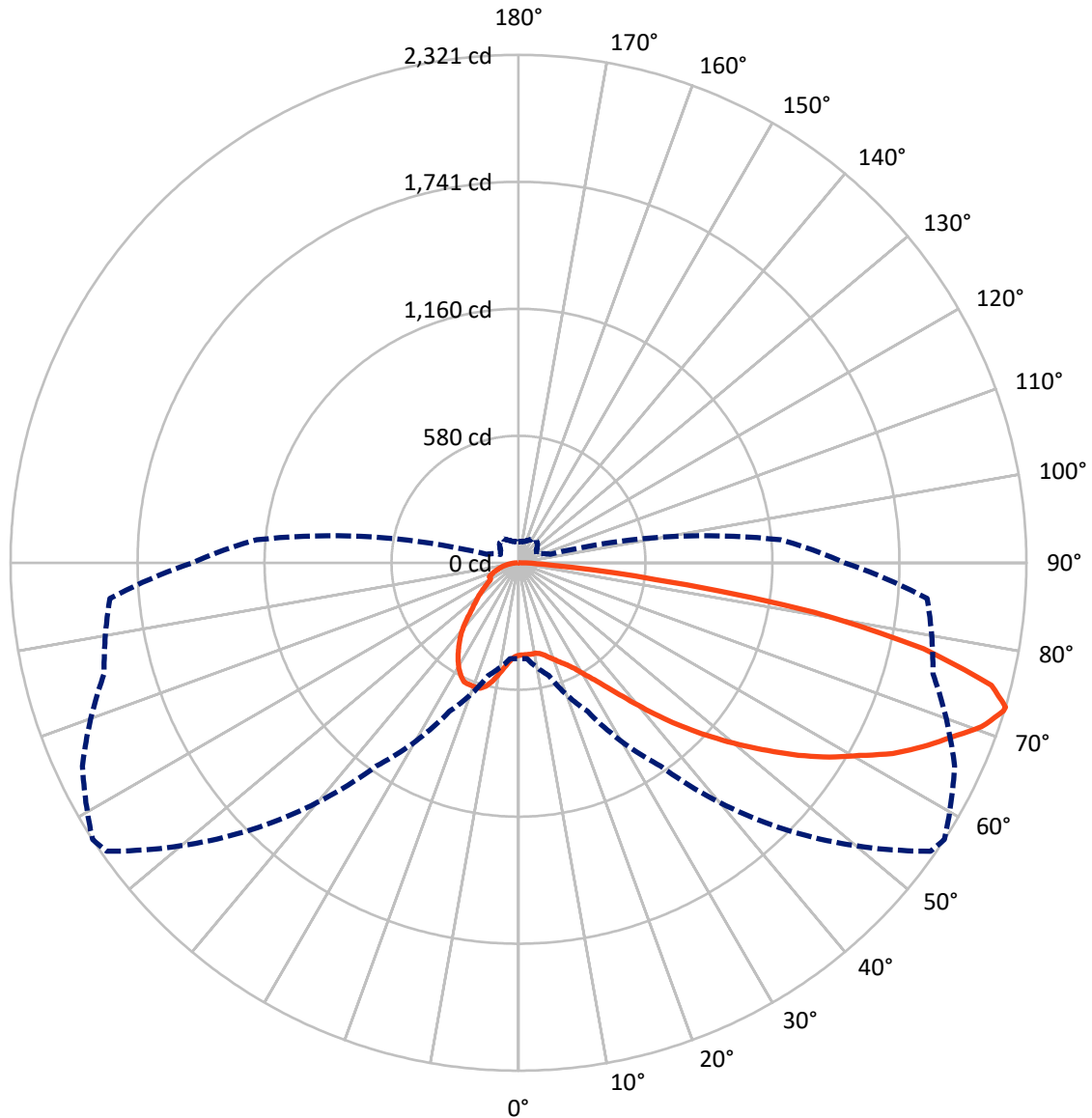
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.6 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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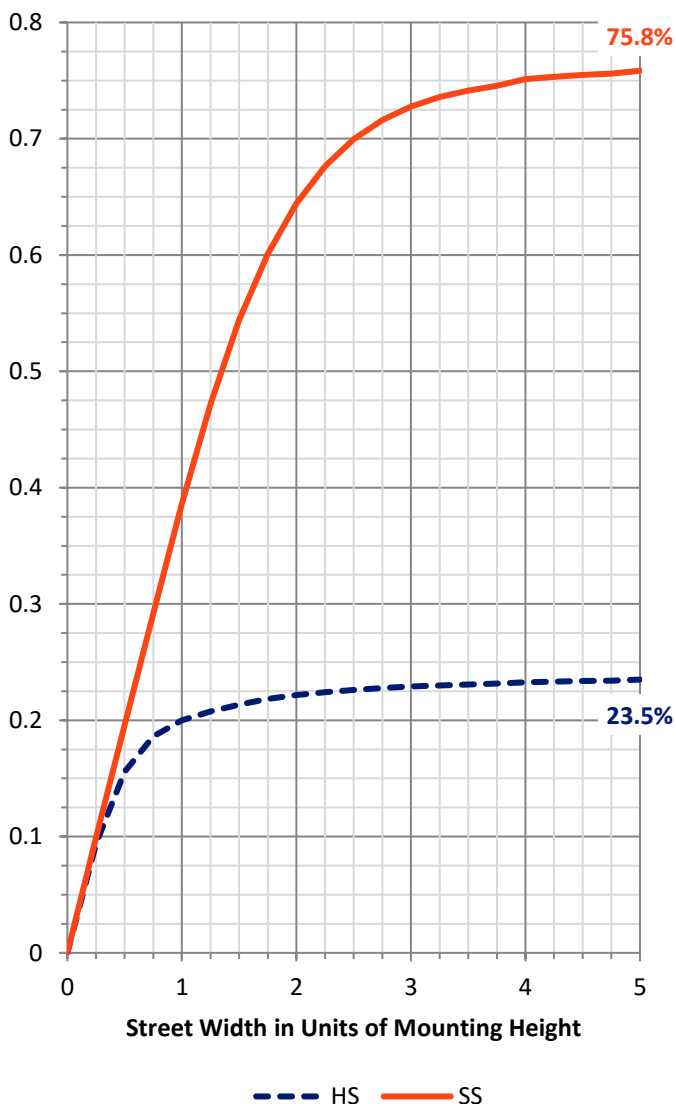
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1000.3   | 0.0    | 1000.3 |
|                    | % Fixture | 23.9     | 0.0    | 23.9   |
| <b>Street Side</b> | Lumens    | 3192.7   | 0.0    | 3192.7 |
|                    | % Fixture | 76.1     | 0.0    | 76.1   |
| <b>Total</b>       | Lumens    | 4193.0   | 0.0    | 4193.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 42.2   | 1.0       |
| 10°-20°   | 138.7  | 3.3       |
| 20°-30°   | 256.1  | 6.1       |
| 30°-40°   | 395.4  | 9.4       |
| 40°-50°   | 595.2  | 14.2      |
| 50°-60°   | 871.1  | 20.8      |
| 60°-70°   | 1028.7 | 24.5      |
| 70°-80°   | 736.5  | 17.6      |
| 80°-90°   | 129.1  | 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°    | 4193.0 | 100.0     |
| 0°-180°   | 4193.0 | 100.0     |

**Coefficient of Utilization**

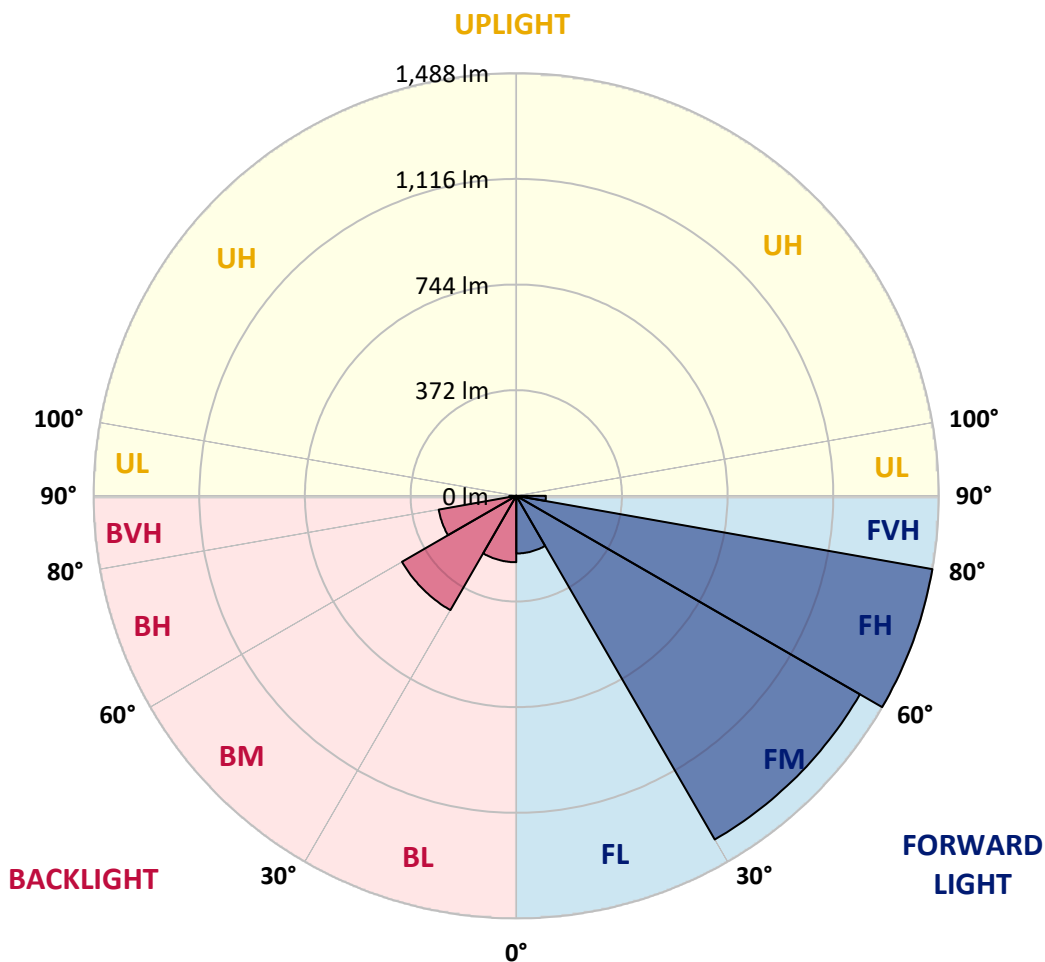


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 203.2  | 4.8       |                         |      |         |
| FM (30°-60°)   | 1397.2 | 33.3      |                         |      |         |
| FH (60°-80°)   | 1487.9 | 35.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 104.4  | 2.5       |                         |      | G2/225  |
| BL (0°-30°)    | 233.8  | 5.6       | B1/500                  |      |         |
| BM (30°-60°)   | 464.5  | 11.1      | B1/1000                 |      |         |
| BH (60°-80°)   | 277.4  | 6.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 24.6   | 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°    | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  | 422.4  |
| 2.5°  | 417.3  | 419.4  | 418.3  | 419.4  | 422.4  | 420.4  | 420.4  | 421.4  | 422.4  | 421.4  | 423.5  |
| 5°    | 399.8  | 400.9  | 402.9  | 407.0  | 414.2  | 416.3  | 421.4  | 421.4  | 423.5  | 425.5  | 428.6  |
| 7.5°  | 371.1  | 373.1  | 377.2  | 381.3  | 393.7  | 406.0  | 419.4  | 421.4  | 428.6  | 433.8  | 435.8  |
| 10°   | 365.9  | 368.0  | 369.0  | 375.2  | 387.5  | 399.8  | 416.3  | 420.4  | 433.8  | 442.0  | 451.2  |
| 12.5° | 360.8  | 362.8  | 365.9  | 374.1  | 389.6  | 402.9  | 420.4  | 424.5  | 440.9  | 457.4  | 468.7  |
| 15°   | 364.9  | 365.9  | 369.0  | 377.2  | 392.6  | 411.1  | 433.8  | 436.8  | 455.3  | 475.9  | 493.4  |
| 17.5° | 375.2  | 376.2  | 375.2  | 382.4  | 396.8  | 418.3  | 449.2  | 454.3  | 476.9  | 497.5  | 515.0  |
| 20°   | 398.8  | 399.8  | 395.7  | 395.7  | 406.0  | 427.6  | 465.6  | 472.8  | 500.6  | 523.2  | 540.6  |
| 22.5° | 450.2  | 448.1  | 437.9  | 424.5  | 424.5  | 442.0  | 484.1  | 494.4  | 529.3  | 547.8  | 563.3  |
| 25°   | 523.2  | 523.2  | 506.7  | 482.1  | 465.6  | 463.6  | 505.7  | 517.0  | 558.1  | 580.7  | 590.0  |
| 27.5° | 611.6  | 612.6  | 585.9  | 553.0  | 521.1  | 505.7  | 536.5  | 547.8  | 594.1  | 617.7  | 620.8  |
| 30°   | 689.7  | 690.7  | 664.0  | 633.2  | 594.1  | 560.2  | 577.7  | 590.0  | 643.4  | 661.9  | 651.7  |
| 32.5° | 767.8  | 768.8  | 750.3  | 708.2  | 667.1  | 624.9  | 630.1  | 637.3  | 691.7  | 709.2  | 692.8  |
| 35°   | 835.6  | 838.7  | 820.2  | 788.4  | 745.2  | 707.2  | 697.9  | 698.9  | 748.3  | 759.6  | 738.0  |
| 37.5° | 904.5  | 904.5  | 893.2  | 863.4  | 826.4  | 784.2  | 771.9  | 775.0  | 819.2  | 830.5  | 799.7  |
| 40°   | 991.9  | 996.0  | 989.8  | 952.8  | 910.7  | 875.7  | 863.4  | 867.5  | 915.8  | 909.6  | 876.8  |
| 42.5° | 1097.7 | 1107.0 | 1096.7 | 1056.6 | 1011.4 | 972.3  | 972.3  | 972.3  | 1013.5 | 1014.5 | 965.2  |
| 45°   | 1233.4 | 1233.4 | 1223.1 | 1188.2 | 1128.6 | 1089.5 | 1076.2 | 1079.2 | 1115.2 | 1119.3 | 1061.8 |
| 47.5° | 1346.5 | 1356.8 | 1345.5 | 1319.8 | 1272.5 | 1235.5 | 1193.3 | 1188.2 | 1218.0 | 1218.0 | 1168.7 |
| 50°   | 1438.0 | 1456.5 | 1447.2 | 1458.5 | 1424.6 | 1406.1 | 1319.8 | 1305.4 | 1315.6 | 1325.9 | 1271.5 |
| 52.5° | 1514.0 | 1528.4 | 1525.3 | 1558.2 | 1574.7 | 1584.9 | 1448.2 | 1425.6 | 1433.9 | 1432.8 | 1383.5 |
| 55°   | 1519.2 | 1524.3 | 1570.6 | 1644.6 | 1709.3 | 1757.6 | 1577.8 | 1553.1 | 1544.9 | 1540.7 | 1502.7 |
| 57.5° | 1489.4 | 1492.4 | 1584.9 | 1672.3 | 1813.1 | 1868.6 | 1700.1 | 1675.4 | 1664.1 | 1649.7 | 1634.3 |
| 60°   | 1417.4 | 1432.8 | 1554.1 | 1688.8 | 1874.8 | 1955.0 | 1814.2 | 1788.5 | 1780.2 | 1749.4 | 1784.3 |
| 62.5° | 1325.9 | 1333.1 | 1454.4 | 1654.8 | 1883.0 | 1992.0 | 1934.4 | 1919.0 | 1893.3 | 1849.1 | 1918.0 |
| 65°   | 1196.4 | 1195.4 | 1302.3 | 1555.1 | 1840.9 | 2010.5 | 2036.2 | 2027.9 | 1996.1 | 1920.0 | 2037.2 |
| 67.5° | 982.6  | 1006.3 | 1111.1 | 1378.3 | 1739.1 | 2029.0 | 2140.0 | 2129.7 | 2079.3 | 1983.8 | 2093.7 |
| 70°   | 749.3  | 763.7  | 882.9  | 1113.2 | 1536.6 | 1978.6 | 2241.7 | 2244.8 | 2153.3 | 1997.1 | 2069.1 |
| 72.5° | 478.0  | 502.6  | 597.2  | 811.0  | 1230.3 | 1791.5 | 2302.4 | 2316.8 | 2194.5 | 1978.6 | 1915.9 |
| 73°   | 437.9  | 439.9  | 532.4  | 750.3  | 1134.7 | 1724.7 | 2298.3 | 2320.9 | 2198.6 | 1960.1 | 1873.8 |
| 75°   | 261.1  | 272.4  | 327.9  | 498.5  | 809.9  | 1385.5 | 2187.3 | 2232.5 | 2177.0 | 1877.9 | 1642.5 |
| 77.5° | 122.3  | 130.5  | 161.4  | 263.1  | 440.9  | 833.6  | 1838.8 | 1892.3 | 1929.3 | 1643.5 | 1251.9 |
| 80°   | 64.8   | 65.8   | 79.1   | 132.6  | 236.4  | 343.3  | 1281.7 | 1370.1 | 1422.5 | 1237.5 | 841.8  |
| 82.5° | 54.5   | 54.5   | 61.7   | 85.3   | 151.1  | 133.6  | 528.3  | 629.0  | 770.9  | 609.5  | 331.0  |
| 85°   | 44.2   | 45.2   | 61.7   | 63.7   | 107.9  | 68.9   | 126.4  | 158.3  | 299.1  | 269.3  | 37.0   |
| 87.5° | 14.4   | 16.4   | 34.9   | 45.2   | 57.6   | 26.7   | 31.9   | 34.9   | 34.9   | 51.4   | 12.3   |
| 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°    | 422.4  | 422.4  | 422.4 | 422.4 | 422.4 | 422.4 | 422.4 | 422.4 | 422.4 | 422.4 | 422.4 |
| 2.5°  | 424.5  | 424.5  | 425.5 | 426.6 | 428.6 | 428.6 | 430.7 | 431.7 | 433.8 | 434.8 | 431.7 |
| 5°    | 428.6  | 430.7  | 432.7 | 438.9 | 446.1 | 452.3 | 458.4 | 463.6 | 468.7 | 471.8 | 470.8 |
| 7.5°  | 439.9  | 443.0  | 451.2 | 462.5 | 476.9 | 486.2 | 495.4 | 504.7 | 508.8 | 510.8 | 510.8 |
| 10°   | 455.3  | 461.5  | 476.9 | 495.4 | 511.9 | 526.3 | 533.5 | 539.6 | 541.7 | 543.7 | 541.7 |
| 12.5° | 476.9  | 485.1  | 508.8 | 532.4 | 550.9 | 558.1 | 557.1 | 548.9 | 537.6 | 535.5 | 533.5 |
| 15°   | 504.7  | 515.0  | 541.7 | 569.4 | 583.8 | 574.6 | 550.9 | 542.7 | 540.6 | 546.8 | 544.8 |
| 17.5° | 528.3  | 540.6  | 573.5 | 602.3 | 599.2 | 567.4 | 560.2 | 564.3 | 562.2 | 563.3 | 563.3 |
| 20°   | 550.9  | 568.4  | 603.3 | 622.9 | 596.2 | 575.6 | 569.4 | 564.3 | 558.1 | 560.2 | 558.1 |
| 22.5° | 579.7  | 592.0  | 632.1 | 633.2 | 592.0 | 575.6 | 562.2 | 552.0 | 549.9 | 550.9 | 552.0 |
| 25°   | 602.3  | 621.8  | 656.8 | 626.0 | 592.0 | 559.2 | 540.6 | 538.6 | 539.6 | 545.8 | 543.7 |
| 27.5° | 633.2  | 652.7  | 676.3 | 621.8 | 567.4 | 532.4 | 525.2 | 524.2 | 517.0 | 519.1 | 519.1 |
| 30°   | 661.9  | 685.6  | 686.6 | 621.8 | 536.5 | 509.8 | 499.5 | 481.0 | 465.6 | 468.7 | 467.7 |
| 32.5° | 701.0  | 721.6  | 688.7 | 597.2 | 501.6 | 480.0 | 452.3 | 423.5 | 416.3 | 420.4 | 421.4 |
| 35°   | 746.2  | 762.7  | 690.7 | 556.1 | 466.6 | 437.9 | 387.5 | 371.1 | 370.0 | 373.1 | 376.2 |
| 37.5° | 805.8  | 815.1  | 706.1 | 508.8 | 432.7 | 372.1 | 333.0 | 328.9 | 319.7 | 313.5 | 314.5 |
| 40°   | 878.8  | 867.5  | 735.9 | 466.6 | 392.6 | 312.5 | 296.0 | 284.7 | 267.2 | 249.8 | 252.9 |
| 42.5° | 960.0  | 928.1  | 745.2 | 432.7 | 338.2 | 275.5 | 260.0 | 242.6 | 221.0 | 202.5 | 201.5 |
| 45°   | 1047.4 | 996.0  | 737.0 | 406.0 | 283.7 | 247.7 | 231.3 | 210.7 | 185.0 | 169.6 | 169.6 |
| 47.5° | 1151.2 | 1060.7 | 711.3 | 384.4 | 245.7 | 223.0 | 202.5 | 181.9 | 164.5 | 150.1 | 150.1 |
| 50°   | 1265.3 | 1135.8 | 692.8 | 346.4 | 218.9 | 199.4 | 178.8 | 162.4 | 149.0 | 137.7 | 137.7 |
| 52.5° | 1385.5 | 1206.7 | 677.4 | 290.9 | 195.3 | 177.8 | 163.4 | 150.1 | 138.8 | 124.4 | 122.3 |
| 55°   | 1507.9 | 1274.5 | 684.5 | 237.4 | 173.7 | 162.4 | 153.1 | 139.8 | 135.7 | 132.6 | 130.5 |
| 57.5° | 1635.3 | 1348.5 | 702.0 | 194.3 | 155.2 | 154.2 | 150.1 | 159.3 | 168.6 | 162.4 | 159.3 |
| 60°   | 1735.0 | 1406.1 | 704.1 | 163.4 | 143.9 | 162.4 | 183.0 | 186.0 | 161.4 | 147.0 | 146.0 |
| 62.5° | 1814.2 | 1460.6 | 655.8 | 141.8 | 147.0 | 191.2 | 195.3 | 164.5 | 139.8 | 133.6 | 133.6 |
| 65°   | 1855.3 | 1480.1 | 527.3 | 129.5 | 153.1 | 183.0 | 176.8 | 148.0 | 130.5 | 129.5 | 129.5 |
| 67.5° | 1834.7 | 1464.7 | 369.0 | 116.1 | 135.7 | 158.3 | 158.3 | 135.7 | 120.3 | 125.4 | 123.3 |
| 70°   | 1736.0 | 1388.6 | 243.6 | 104.8 | 119.2 | 142.9 | 147.0 | 126.4 | 112.0 | 115.1 | 112.0 |
| 72.5° | 1530.5 | 1252.9 | 160.3 | 92.5  | 102.8 | 126.4 | 136.7 | 116.1 | 102.8 | 101.8 | 98.7  |
| 73°   | 1490.4 | 1201.6 | 151.1 | 90.5  | 99.7  | 122.3 | 133.6 | 114.1 | 100.7 | 97.6  | 95.6  |
| 75°   | 1264.3 | 1002.2 | 114.1 | 81.2  | 88.4  | 110.0 | 124.4 | 106.9 | 92.5  | 88.4  | 86.3  |
| 77.5° | 921.0  | 694.8  | 85.3  | 68.9  | 74.0  | 95.6  | 110.0 | 97.6  | 82.2  | 77.1  | 76.1  |
| 80°   | 574.6  | 378.2  | 63.7  | 55.5  | 58.6  | 80.2  | 96.6  | 87.4  | 70.9  | 64.8  | 63.7  |
| 82.5° | 225.1  | 123.3  | 44.2  | 41.1  | 43.2  | 60.6  | 81.2  | 76.1  | 59.6  | 54.5  | 51.4  |
| 85°   | 37.0   | 42.1   | 28.8  | 27.8  | 27.8  | 43.2  | 61.7  | 58.6  | 40.1  | 34.9  | 30.8  |
| 87.5° | 10.3   | 19.5   | 11.3  | 10.3  | 10.3  | 18.5  | 33.9  | 26.7  | 16.4  | 13.4  | 12.3  |
| 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)