

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: P595485

Luminaire Tested: **ISW-PA1A-760-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595485
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-PA1A-760-U-T4W
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 5700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4082.9 lumens
Efficiency: N/A
Efficacy: 141.8 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

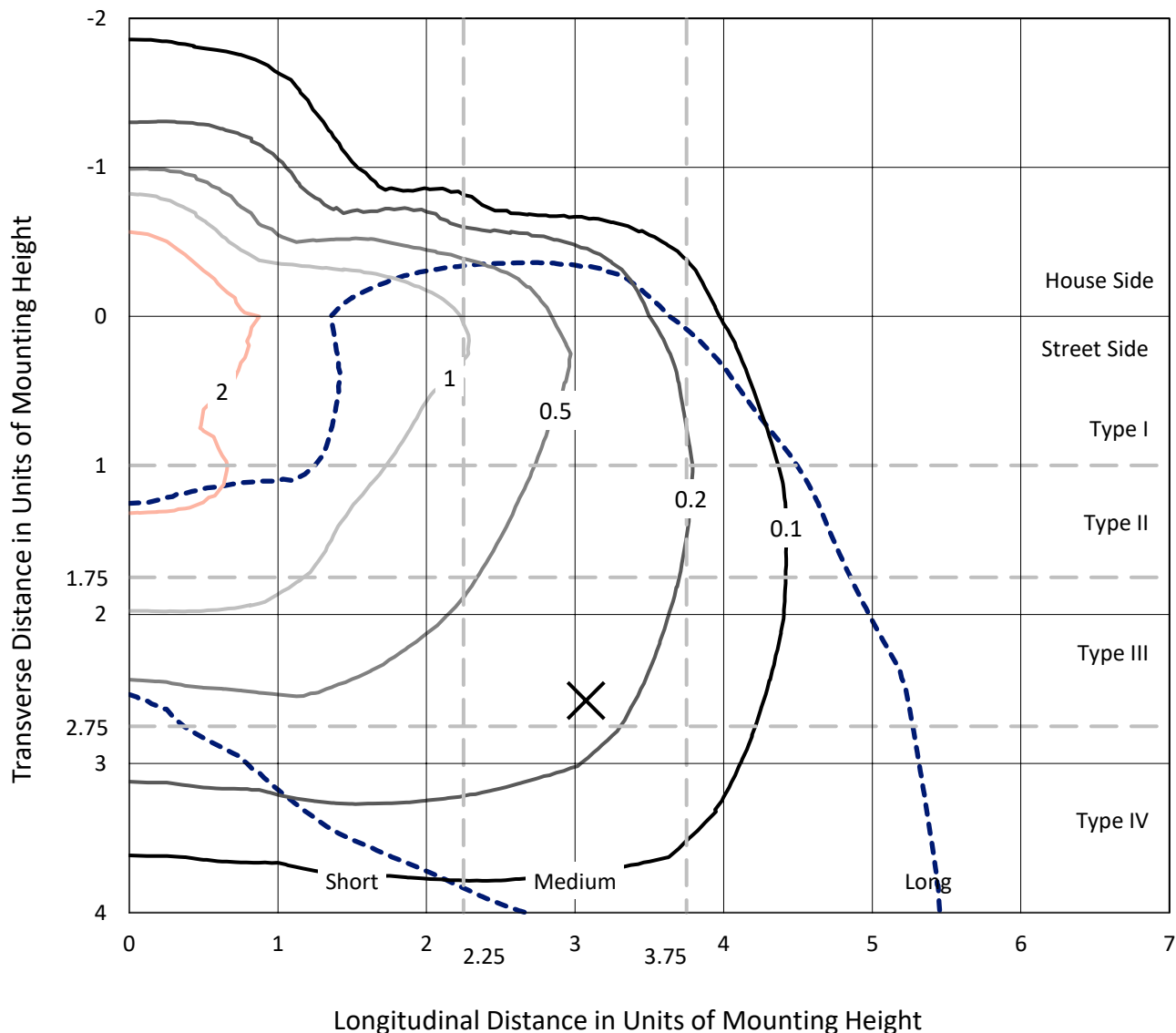
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

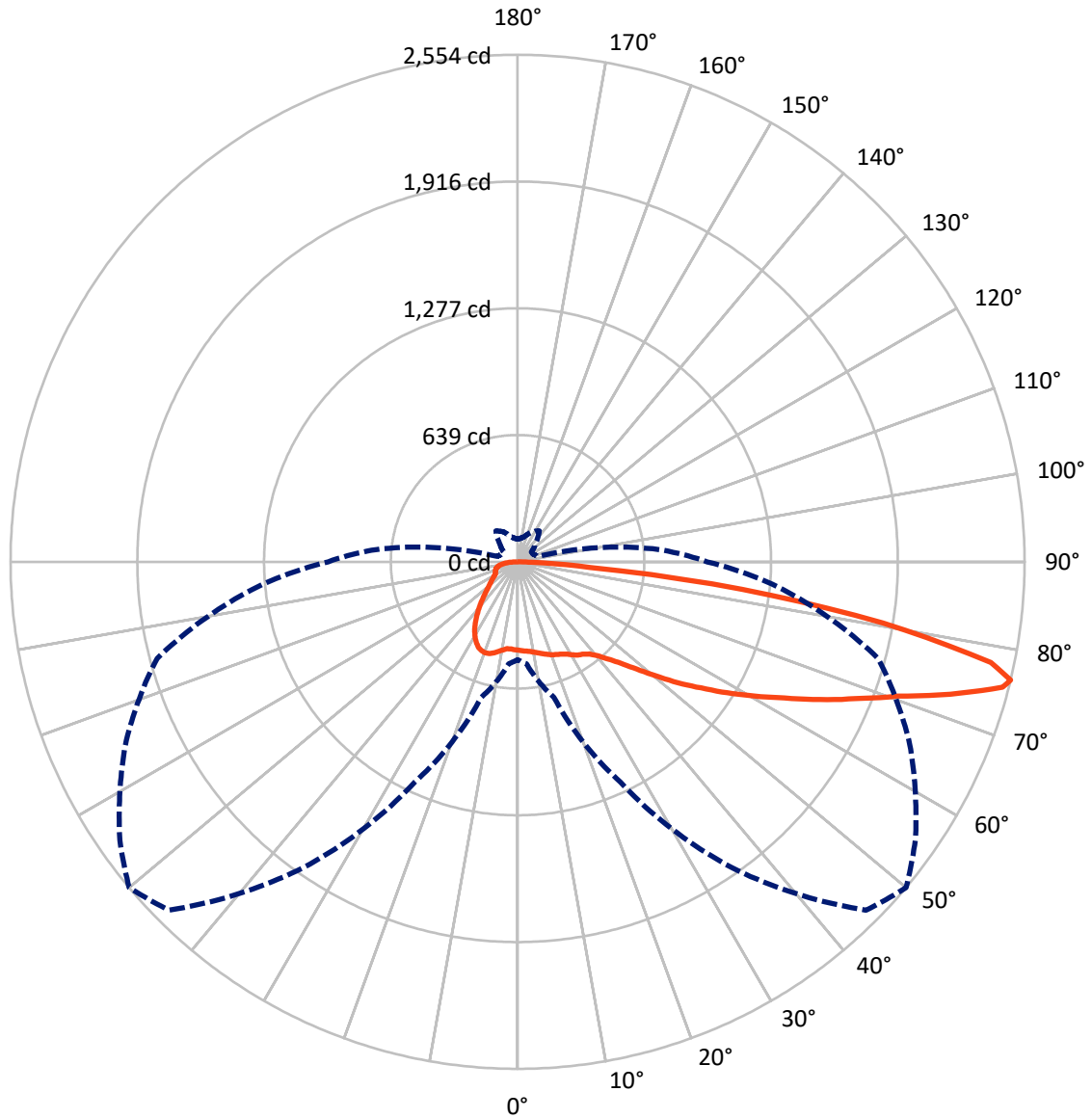
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.3 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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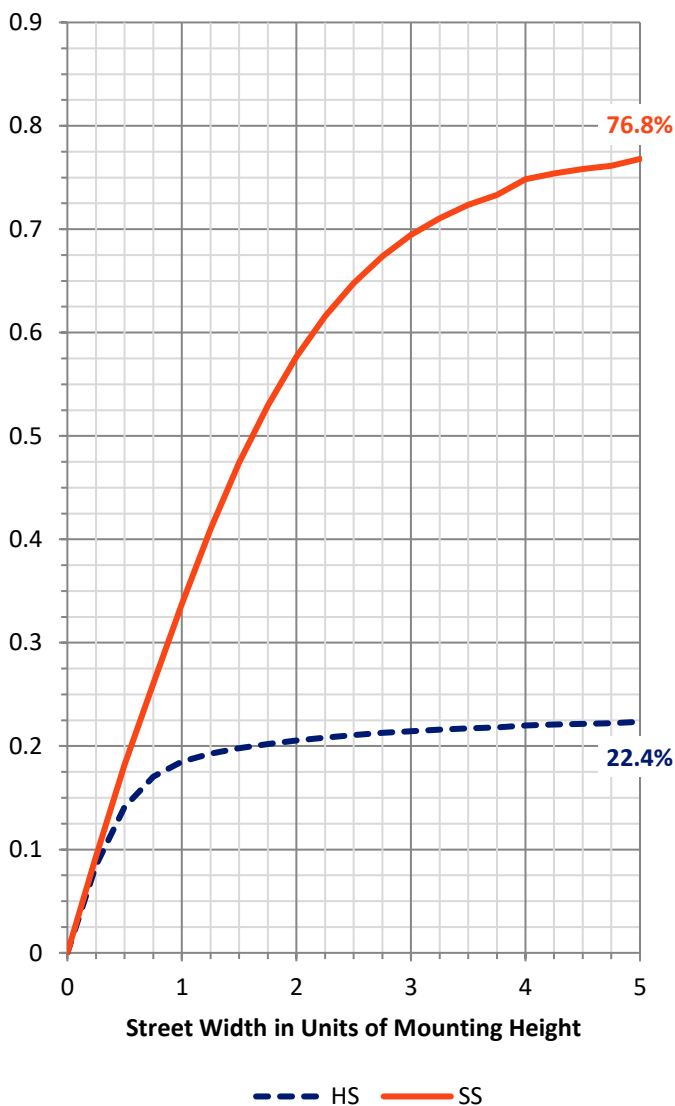
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 934.0 | 0.0 | 934.0 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 3149.0 | 0.0 | 3149.0 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 4082.9 | 0.0 | 4082.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 43.2 | 1.1 |
| 10°-20° | 135.9 | 3.3 |
| 20°-30° | 229.5 | 5.6 |
| 30°-40° | 314.6 | 7.7 |
| 40°-50° | 463.3 | 11.3 |
| 50°-60° | 728.8 | 17.9 |
| 60°-70° | 1049.1 | 25.7 |
| 70°-80° | 953.9 | 23.4 |
| 80°-90° | 164.7 | 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° | 4082.9 | 100.0 |
| 0°-180° | 4082.9 | 100.0 |

Coefficient of Utilization

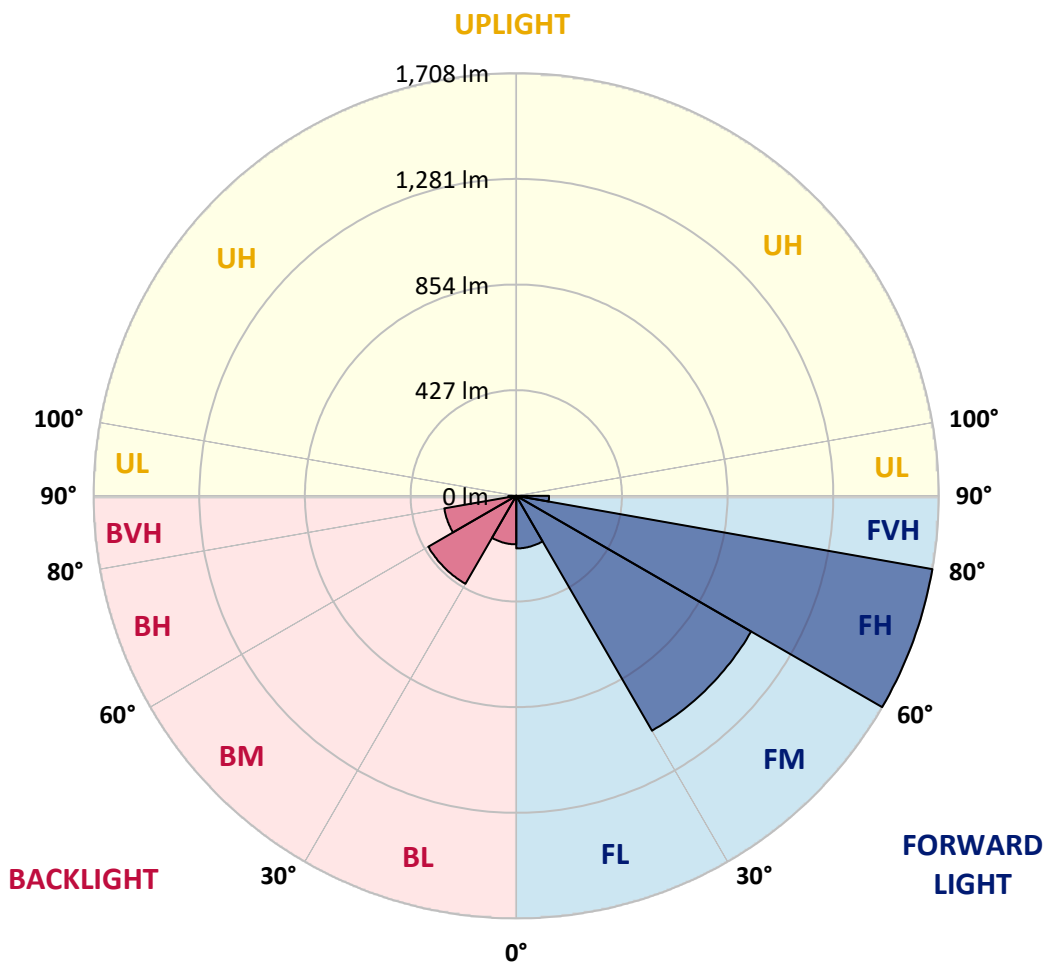


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 212.5 | 5.2 | | | |
| FM (30°-60°) | 1096.2 | 26.8 | | | |
| FH (60°-80°) | 1707.7 | 41.8 | | | G1/1800 |
| FVH (80°-90°) | 132.6 | 3.2 | | | G2/225 |
| BL (0°-30°) | 196.1 | 4.8 | B1/500 | | |
| BM (30°-60°) | 410.5 | 10.1 | B1/1000 | | |
| BH (60°-80°) | 295.3 | 7.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 32.1 | 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° | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 |
| 2.5° | 455.0 | 455.0 | 456.0 | 454.0 | 454.0 | 449.0 | 449.0 | 448.0 | 446.0 | 445.0 | 443.0 |
| 5° | 472.0 | 472.0 | 469.0 | 464.0 | 461.0 | 455.0 | 452.0 | 450.0 | 446.0 | 441.0 | 436.0 |
| 7.5° | 490.0 | 488.0 | 486.0 | 478.0 | 472.0 | 461.0 | 456.0 | 453.0 | 445.0 | 438.0 | 435.0 |
| 10° | 509.0 | 506.0 | 501.0 | 491.0 | 482.0 | 469.0 | 463.0 | 459.0 | 450.0 | 444.0 | 437.0 |
| 12.5° | 520.0 | 520.0 | 514.0 | 502.0 | 490.0 | 474.0 | 471.0 | 466.0 | 457.0 | 449.0 | 442.0 |
| 15° | 531.0 | 532.0 | 526.0 | 512.0 | 498.0 | 486.0 | 481.0 | 478.0 | 468.0 | 456.0 | 447.0 |
| 17.5° | 542.0 | 541.0 | 535.0 | 519.0 | 504.0 | 493.0 | 490.0 | 486.0 | 476.0 | 465.0 | 456.0 |
| 20° | 550.0 | 548.0 | 546.0 | 526.0 | 511.0 | 504.0 | 500.0 | 497.0 | 487.0 | 475.0 | 463.0 |
| 22.5° | 552.0 | 554.0 | 552.0 | 528.0 | 516.0 | 508.0 | 507.0 | 504.0 | 496.0 | 485.0 | 473.0 |
| 25° | 553.0 | 554.0 | 557.0 | 534.0 | 523.0 | 517.0 | 515.0 | 513.0 | 507.0 | 498.0 | 482.0 |
| 27.5° | 558.0 | 559.0 | 559.0 | 538.0 | 532.0 | 528.0 | 526.0 | 526.0 | 523.0 | 512.0 | 496.0 |
| 30° | 559.0 | 560.0 | 562.0 | 548.0 | 546.0 | 543.0 | 544.0 | 543.0 | 538.0 | 526.0 | 508.0 |
| 32.5° | 566.0 | 567.0 | 572.0 | 554.0 | 556.0 | 559.0 | 560.0 | 559.0 | 549.0 | 539.0 | 524.0 |
| 35° | 589.0 | 588.0 | 592.1 | 569.0 | 567.0 | 568.0 | 571.0 | 570.0 | 566.0 | 557.0 | 547.0 |
| 37.5° | 663.1 | 663.1 | 652.1 | 604.1 | 589.0 | 587.0 | 589.0 | 594.1 | 595.1 | 587.0 | 579.0 |
| 40° | 793.1 | 786.1 | 780.1 | 676.1 | 628.1 | 616.1 | 622.1 | 625.1 | 633.1 | 633.1 | 633.1 |
| 42.5° | 927.1 | 928.1 | 926.1 | 788.1 | 698.1 | 668.1 | 669.1 | 676.1 | 693.1 | 696.1 | 705.1 |
| 45° | 1046.1 | 1053.1 | 1068.1 | 918.1 | 801.1 | 734.1 | 727.1 | 734.1 | 758.1 | 778.1 | 801.1 |
| 47.5° | 1139.1 | 1131.1 | 1164.1 | 1054.1 | 919.1 | 824.1 | 806.1 | 808.1 | 841.1 | 873.1 | 909.1 |
| 50° | 1219.1 | 1221.1 | 1236.1 | 1193.1 | 1068.1 | 926.1 | 902.1 | 898.1 | 945.1 | 979.1 | 1040.1 |
| 52.5° | 1309.1 | 1303.1 | 1325.1 | 1315.1 | 1213.1 | 1051.1 | 1013.1 | 1001.1 | 1052.1 | 1100.1 | 1166.1 |
| 55° | 1352.1 | 1358.1 | 1403.1 | 1428.1 | 1350.1 | 1163.1 | 1121.1 | 1125.1 | 1179.1 | 1230.1 | 1322.1 |
| 57.5° | 1428.1 | 1434.1 | 1486.1 | 1538.1 | 1472.1 | 1282.1 | 1245.1 | 1245.1 | 1306.1 | 1363.1 | 1505.1 |
| 60° | 1532.1 | 1533.1 | 1586.1 | 1676.1 | 1579.1 | 1397.1 | 1373.1 | 1372.1 | 1438.1 | 1504.1 | 1721.1 |
| 62.5° | 1578.1 | 1590.1 | 1669.1 | 1786.2 | 1719.1 | 1538.1 | 1510.1 | 1518.1 | 1577.1 | 1654.1 | 1962.2 |
| 65° | 1516.1 | 1542.1 | 1707.1 | 1860.2 | 1844.2 | 1685.1 | 1674.1 | 1685.1 | 1721.1 | 1804.2 | 2217.2 |
| 67.5° | 1311.1 | 1346.1 | 1637.1 | 1910.2 | 1944.2 | 1855.2 | 1839.2 | 1837.2 | 1860.2 | 1953.2 | 2378.2 |
| 70° | 1205.1 | 1226.1 | 1452.1 | 1929.2 | 2024.2 | 2027.2 | 2027.2 | 2014.2 | 2011.2 | 2079.2 | 2393.2 |
| 72.5° | 992.1 | 1014.1 | 1225.1 | 1823.2 | 2100.2 | 2257.2 | 2280.2 | 2232.2 | 2158.2 | 2144.2 | 2142.2 |
| 75° | 707.1 | 723.1 | 905.1 | 1434.1 | 2003.2 | 2478.2 | 2524.2 | 2431.2 | 2225.2 | 2002.2 | 1562.1 |
| 76° | 493.0 | 516.0 | 707.1 | 1225.1 | 1881.2 | 2482.2 | 2554.2 | 2446.2 | 2180.2 | 1880.2 | 1287.1 |
| 77.5° | 250.0 | 258.0 | 409.0 | 823.1 | 1574.1 | 2368.2 | 2438.2 | 2317.2 | 1984.2 | 1519.1 | 817.1 |
| 80° | 95.0 | 98.0 | 146.0 | 300.0 | 864.1 | 1839.2 | 1866.2 | 1703.1 | 1313.1 | 649.1 | 294.0 |
| 82.5° | 50.0 | 52.0 | 82.0 | 148.0 | 355.0 | 1011.1 | 1141.1 | 950.1 | 515.0 | 195.0 | 86.0 |
| 85° | 25.0 | 27.0 | 48.0 | 90.0 | 176.0 | 316.0 | 366.0 | 346.0 | 171.0 | 74.0 | 32.0 |
| 87.5° | 10.0 | 12.0 | 24.0 | 40.0 | 71.0 | 62.0 | 69.0 | 89.0 | 55.0 | 35.0 | 11.0 |
| 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° | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 |
| 2.5° | 443.0 | 442.0 | 443.0 | 442.0 | 443.0 | 443.0 | 444.0 | 442.0 | 442.0 | 444.0 | 441.0 |
| 5° | 436.0 | 435.0 | 436.0 | 438.0 | 439.0 | 441.0 | 445.0 | 444.0 | 446.0 | 448.0 | 449.0 |
| 7.5° | 433.0 | 432.0 | 435.0 | 436.0 | 439.0 | 443.0 | 449.0 | 453.0 | 455.0 | 459.0 | 457.0 |
| 10° | 436.0 | 436.0 | 440.0 | 443.0 | 448.0 | 453.0 | 458.0 | 462.0 | 467.0 | 470.0 | 469.0 |
| 12.5° | 441.0 | 440.0 | 447.0 | 451.0 | 458.0 | 463.0 | 467.0 | 469.0 | 473.0 | 477.0 | 476.0 |
| 15° | 446.0 | 447.0 | 457.0 | 465.0 | 473.0 | 475.0 | 476.0 | 474.0 | 476.0 | 478.0 | 478.0 |
| 17.5° | 456.0 | 457.0 | 468.0 | 477.0 | 484.0 | 482.0 | 477.0 | 472.0 | 472.0 | 473.0 | 474.0 |
| 20° | 464.0 | 466.0 | 479.0 | 487.0 | 491.0 | 483.0 | 475.0 | 469.0 | 466.0 | 467.0 | 466.0 |
| 22.5° | 473.0 | 477.0 | 490.0 | 494.0 | 488.0 | 478.0 | 468.0 | 460.0 | 460.0 | 461.0 | 461.0 |
| 25° | 484.0 | 486.0 | 495.0 | 493.0 | 482.0 | 467.0 | 459.0 | 456.0 | 455.0 | 456.0 | 457.0 |
| 27.5° | 494.0 | 495.0 | 500.0 | 486.0 | 465.0 | 449.0 | 446.0 | 447.0 | 448.0 | 449.0 | 450.0 |
| 30° | 507.0 | 509.0 | 504.0 | 476.0 | 444.0 | 426.0 | 426.0 | 432.0 | 434.0 | 437.0 | 436.0 |
| 32.5° | 523.0 | 525.0 | 510.0 | 463.0 | 417.0 | 399.0 | 400.0 | 409.0 | 415.0 | 417.0 | 418.0 |
| 35° | 550.0 | 546.0 | 514.0 | 445.0 | 388.0 | 366.0 | 367.0 | 378.0 | 386.0 | 389.0 | 387.0 |
| 37.5° | 583.0 | 582.0 | 520.0 | 422.0 | 352.0 | 332.0 | 333.0 | 338.0 | 346.0 | 347.0 | 348.0 |
| 40° | 638.1 | 630.1 | 530.0 | 392.0 | 316.0 | 297.0 | 295.0 | 298.0 | 297.0 | 299.0 | 300.0 |
| 42.5° | 717.1 | 696.1 | 543.0 | 358.0 | 284.0 | 264.0 | 262.0 | 257.0 | 251.0 | 245.0 | 242.0 |
| 45° | 810.1 | 777.1 | 559.0 | 323.0 | 251.0 | 233.0 | 228.0 | 222.0 | 210.0 | 197.0 | 193.0 |
| 47.5° | 930.1 | 867.1 | 577.0 | 288.0 | 220.0 | 206.0 | 202.0 | 193.0 | 179.0 | 164.0 | 161.0 |
| 50° | 1053.1 | 973.1 | 595.1 | 259.0 | 195.0 | 187.0 | 183.0 | 174.0 | 156.0 | 142.0 | 139.0 |
| 52.5° | 1196.1 | 1078.1 | 614.1 | 233.0 | 173.0 | 173.0 | 170.0 | 156.0 | 139.0 | 126.0 | 124.0 |
| 55° | 1361.1 | 1186.1 | 644.1 | 208.0 | 157.0 | 161.0 | 157.0 | 143.0 | 127.0 | 118.0 | 117.0 |
| 57.5° | 1558.1 | 1323.1 | 682.1 | 181.0 | 143.0 | 146.0 | 146.0 | 136.0 | 125.0 | 119.0 | 118.0 |
| 60° | 1756.1 | 1462.1 | 706.1 | 161.0 | 132.0 | 135.0 | 141.0 | 136.0 | 129.0 | 126.0 | 125.0 |
| 62.5° | 1946.2 | 1604.1 | 665.1 | 144.0 | 121.0 | 130.0 | 145.0 | 146.0 | 139.0 | 140.0 | 140.0 |
| 65° | 2088.2 | 1712.1 | 538.0 | 129.0 | 114.0 | 133.0 | 157.0 | 158.0 | 146.0 | 143.0 | 142.0 |
| 67.5° | 2137.2 | 1742.1 | 362.0 | 119.0 | 110.0 | 135.0 | 171.0 | 167.0 | 146.0 | 140.0 | 137.0 |
| 70° | 2044.2 | 1632.1 | 235.0 | 110.0 | 104.0 | 133.0 | 182.0 | 172.0 | 145.0 | 136.0 | 132.0 |
| 72.5° | 1714.1 | 1392.1 | 157.0 | 102.0 | 98.0 | 131.0 | 189.0 | 172.0 | 142.0 | 129.0 | 125.0 |
| 75° | 1190.1 | 951.1 | 117.0 | 92.0 | 89.0 | 128.0 | 191.0 | 169.0 | 135.0 | 121.0 | 118.0 |
| 76° | 955.1 | 713.1 | 106.0 | 88.0 | 85.0 | 126.0 | 190.0 | 166.0 | 130.0 | 117.0 | 114.0 |
| 77.5° | 603.1 | 410.0 | 89.0 | 81.0 | 79.0 | 122.0 | 186.0 | 159.0 | 123.0 | 110.0 | 107.0 |
| 80° | 211.0 | 150.0 | 68.0 | 66.0 | 67.0 | 113.0 | 175.0 | 145.0 | 109.0 | 97.0 | 93.0 |
| 82.5° | 84.0 | 69.0 | 51.0 | 51.0 | 53.0 | 97.0 | 158.0 | 128.0 | 95.0 | 80.0 | 74.0 |
| 85° | 33.0 | 30.0 | 36.0 | 36.0 | 38.0 | 79.0 | 132.0 | 100.0 | 65.0 | 50.0 | 48.0 |
| 87.5° | 10.0 | 14.0 | 16.0 | 17.0 | 18.0 | 40.0 | 75.0 | 44.0 | 29.0 | 21.0 | 17.0 |
| 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)