

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: P595528

Luminaire Tested: **ISW-PA1B-727-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595528
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-727-U-T3
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4279 lumens
Efficiency: N/A
Efficacy: 117.6 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

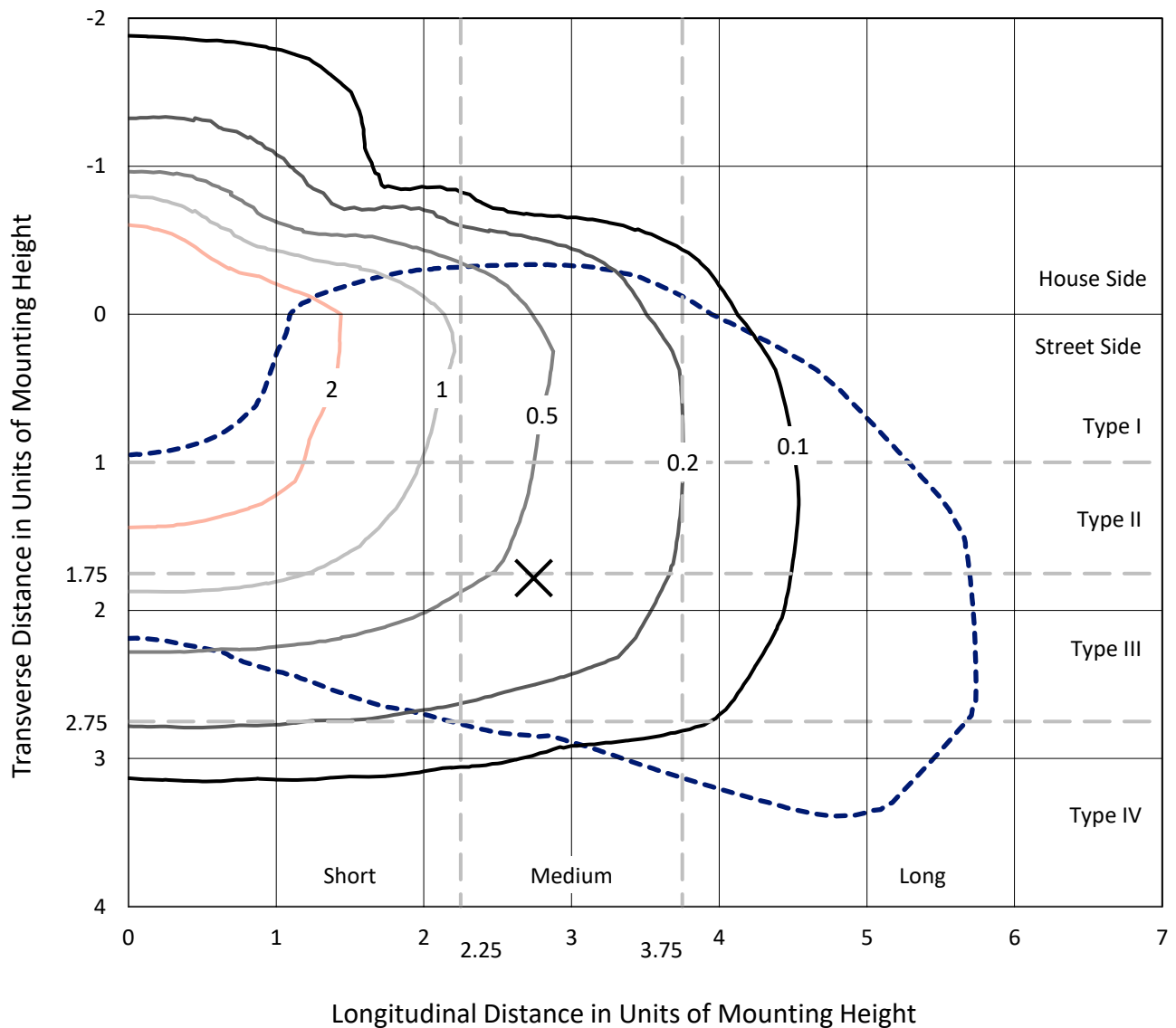
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

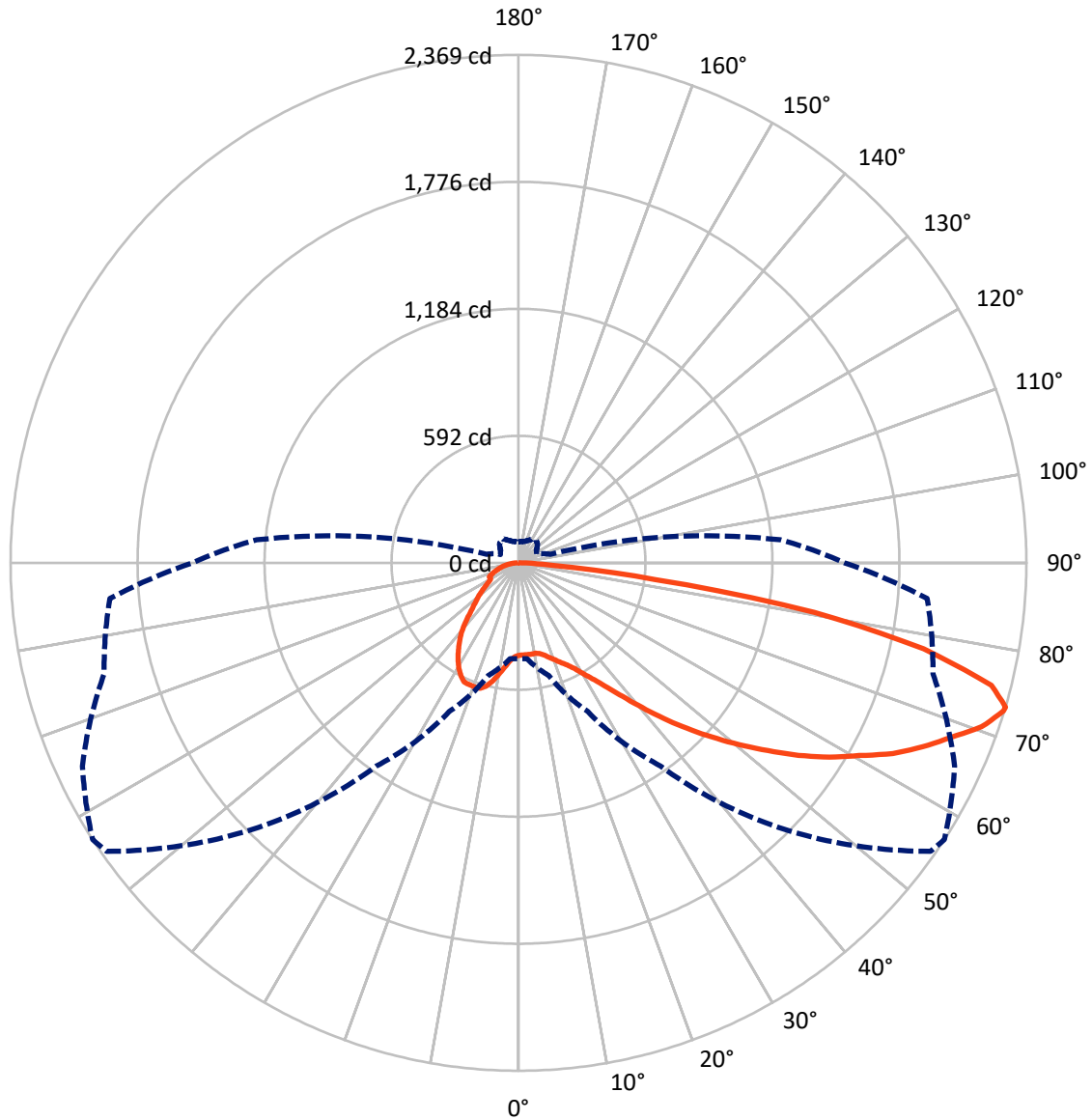
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.7 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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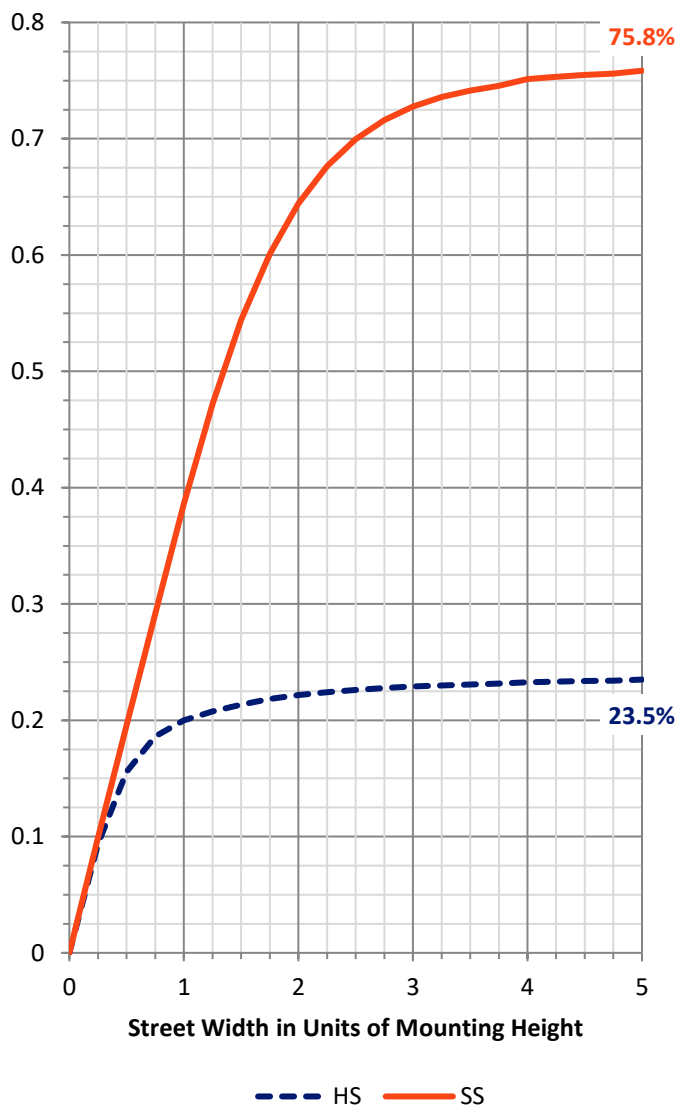
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1020.8 | 0.0 | 1020.8 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 3258.2 | 0.0 | 3258.2 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 4279.0 | 0.0 | 4279.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 43.0 | 1.0 |
| 10°-20° | 141.6 | 3.3 |
| 20°-30° | 261.3 | 6.1 |
| 30°-40° | 403.5 | 9.4 |
| 40°-50° | 607.4 | 14.2 |
| 50°-60° | 889.0 | 20.8 |
| 60°-70° | 1049.8 | 24.5 |
| 70°-80° | 751.6 | 17.6 |
| 80°-90° | 131.7 | 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° | 4279.0 | 100.0 |
| 0°-180° | 4279.0 | 100.0 |

Coefficient of Utilization



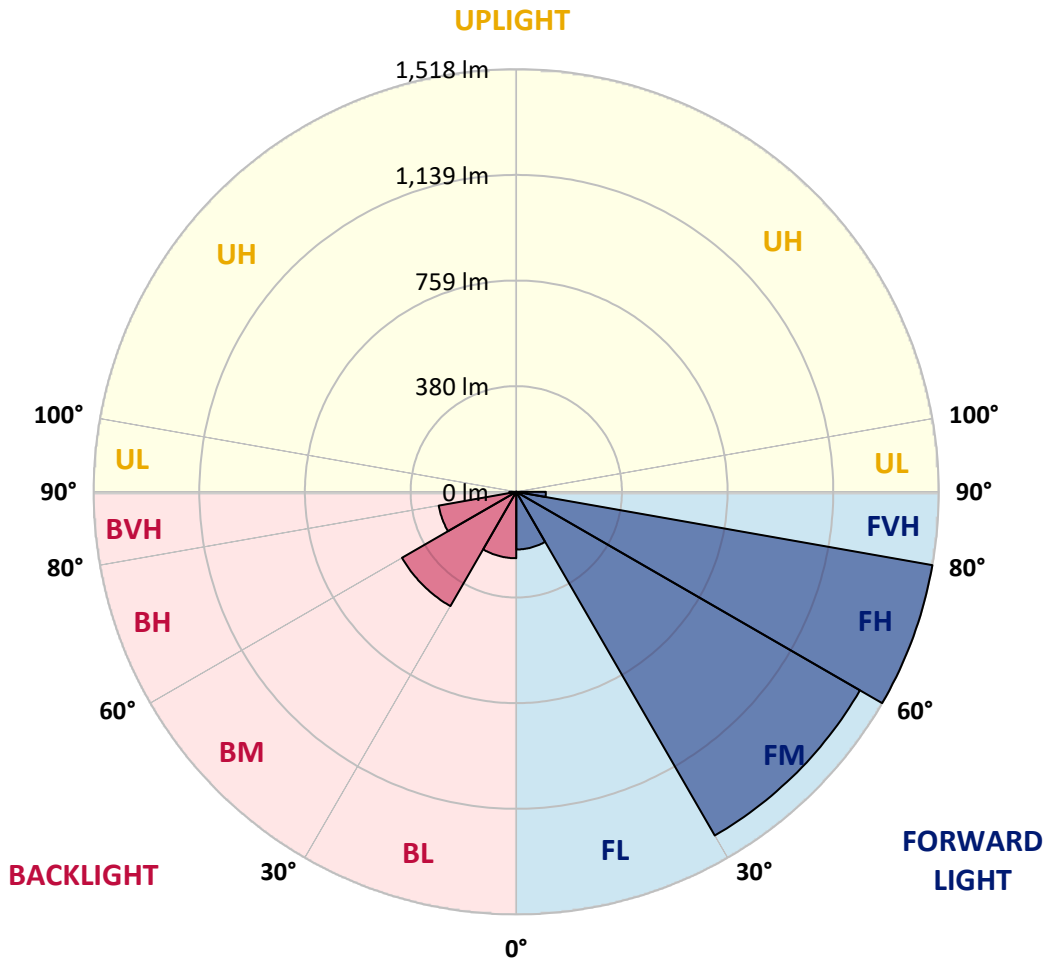
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 207.3 | 4.8 | | | |
| FM (30°-60°) | 1425.9 | 33.3 | | | |
| FH (60°-80°) | 1518.4 | 35.5 | | | G1/1800 |
| FVH (80°-90°) | 106.5 | 2.5 | | | G2/225 |
| BL (0°-30°) | 238.6 | 5.6 | B1/500 | | |
| BM (30°-60°) | 474.1 | 11.1 | B1/1000 | | |
| BH (60°-80°) | 283.0 | 6.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 25.2 | 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° | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 |
| 2.5° | 425.9 | 428.0 | 426.9 | 428.0 | 431.1 | 429.0 | 429.0 | 430.1 | 431.1 | 430.1 | 432.2 |
| 5° | 408.0 | 409.1 | 411.2 | 415.4 | 422.7 | 424.8 | 430.1 | 430.1 | 432.2 | 434.3 | 437.4 |
| 7.5° | 378.7 | 380.8 | 385.0 | 389.2 | 401.7 | 414.3 | 428.0 | 430.1 | 437.4 | 442.6 | 444.7 |
| 10° | 373.4 | 375.5 | 376.6 | 382.9 | 395.4 | 408.0 | 424.8 | 429.0 | 442.6 | 451.0 | 460.5 |
| 12.5° | 368.2 | 370.3 | 373.4 | 381.8 | 397.5 | 411.2 | 429.0 | 433.2 | 450.0 | 466.8 | 478.3 |
| 15° | 372.4 | 373.4 | 376.6 | 385.0 | 400.7 | 419.6 | 442.6 | 445.8 | 464.7 | 485.7 | 503.5 |
| 17.5° | 382.9 | 383.9 | 382.9 | 390.2 | 404.9 | 426.9 | 458.4 | 463.6 | 486.7 | 507.7 | 525.5 |
| 20° | 407.0 | 408.0 | 403.8 | 403.8 | 414.3 | 436.4 | 475.2 | 482.5 | 510.8 | 533.9 | 551.7 |
| 22.5° | 459.4 | 457.3 | 446.8 | 433.2 | 433.2 | 451.0 | 494.0 | 504.5 | 540.2 | 559.1 | 574.8 |
| 25° | 533.9 | 533.9 | 517.1 | 491.9 | 475.2 | 473.1 | 516.1 | 527.6 | 569.6 | 592.6 | 602.1 |
| 27.5° | 624.1 | 625.2 | 597.9 | 564.3 | 531.8 | 516.1 | 547.5 | 559.1 | 606.3 | 630.4 | 633.6 |
| 30° | 703.8 | 704.9 | 677.6 | 646.1 | 606.3 | 571.7 | 589.5 | 602.1 | 656.6 | 675.5 | 665.0 |
| 32.5° | 783.6 | 784.6 | 765.7 | 722.7 | 680.8 | 637.8 | 643.0 | 650.3 | 705.9 | 723.8 | 707.0 |
| 35° | 852.8 | 855.9 | 837.0 | 804.5 | 760.5 | 721.7 | 712.2 | 713.3 | 763.6 | 775.2 | 753.1 |
| 37.5° | 923.1 | 923.1 | 911.5 | 881.1 | 843.3 | 800.3 | 787.7 | 790.9 | 836.0 | 847.5 | 816.1 |
| 40° | 1012.2 | 1016.4 | 1010.1 | 972.4 | 929.4 | 893.7 | 881.1 | 885.3 | 934.6 | 928.3 | 894.7 |
| 42.5° | 1120.3 | 1129.7 | 1119.2 | 1078.3 | 1032.1 | 992.3 | 992.3 | 992.3 | 1034.2 | 1035.3 | 984.9 |
| 45° | 1258.7 | 1258.7 | 1248.2 | 1212.6 | 1151.7 | 1111.9 | 1098.2 | 1101.4 | 1138.1 | 1142.3 | 1083.5 |
| 47.5° | 1374.1 | 1384.6 | 1373.1 | 1346.8 | 1298.6 | 1260.8 | 1217.8 | 1212.6 | 1243.0 | 1243.0 | 1192.6 |
| 50° | 1467.5 | 1486.3 | 1476.9 | 1488.4 | 1453.8 | 1434.9 | 1346.8 | 1332.1 | 1342.6 | 1353.1 | 1297.5 |
| 52.5° | 1545.1 | 1559.8 | 1556.6 | 1590.2 | 1607.0 | 1617.5 | 1477.9 | 1454.9 | 1463.3 | 1462.2 | 1411.9 |
| 55° | 1550.3 | 1555.6 | 1602.8 | 1678.3 | 1744.4 | 1793.7 | 1610.1 | 1584.9 | 1576.5 | 1572.3 | 1533.5 |
| 57.5° | 1519.9 | 1523.0 | 1617.5 | 1706.6 | 1850.3 | 1907.0 | 1734.9 | 1709.8 | 1698.2 | 1683.5 | 1667.8 |
| 60° | 1446.5 | 1462.2 | 1586.0 | 1723.4 | 1913.3 | 1995.1 | 1851.4 | 1825.1 | 1816.8 | 1785.3 | 1820.9 |
| 62.5° | 1353.1 | 1360.5 | 1484.2 | 1688.8 | 1921.6 | 2032.8 | 1974.1 | 1958.4 | 1932.1 | 1887.0 | 1957.3 |
| 65° | 1221.0 | 1219.9 | 1329.0 | 1587.0 | 1878.6 | 2051.7 | 2077.9 | 2069.5 | 2037.0 | 1959.4 | 2079.0 |
| 67.5° | 1002.8 | 1026.9 | 1133.9 | 1406.6 | 1774.8 | 2070.6 | 2183.9 | 2173.4 | 2122.0 | 2024.4 | 2136.7 |
| 70° | 764.7 | 779.4 | 901.0 | 1136.0 | 1568.2 | 2019.2 | 2287.7 | 2290.9 | 2197.5 | 2038.1 | 2111.5 |
| 72.5° | 487.8 | 512.9 | 609.4 | 827.6 | 1255.6 | 1828.3 | 2349.6 | 2364.3 | 2239.5 | 2019.2 | 1955.2 |
| 73° | 446.8 | 448.9 | 543.3 | 765.7 | 1158.0 | 1760.1 | 2345.4 | 2368.5 | 2243.7 | 2000.3 | 1912.2 |
| 75° | 266.4 | 278.0 | 334.6 | 508.7 | 826.6 | 1414.0 | 2232.1 | 2278.3 | 2221.6 | 1916.4 | 1676.2 |
| 77.5° | 124.8 | 133.2 | 164.7 | 268.5 | 450.0 | 850.7 | 1876.5 | 1931.1 | 1968.8 | 1677.2 | 1277.6 |
| 80° | 66.1 | 67.1 | 80.8 | 135.3 | 241.3 | 350.3 | 1308.0 | 1398.2 | 1451.7 | 1262.9 | 859.1 |
| 82.5° | 55.6 | 55.6 | 62.9 | 87.1 | 154.2 | 136.4 | 539.2 | 641.9 | 786.7 | 622.0 | 337.8 |
| 85° | 45.1 | 46.2 | 62.9 | 65.0 | 110.1 | 70.3 | 129.0 | 161.5 | 305.2 | 274.8 | 37.8 |
| 87.5° | 14.7 | 16.8 | 35.7 | 46.2 | 58.7 | 27.3 | 32.5 | 35.7 | 35.7 | 52.4 | 12.6 |
| 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° | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 | 431.1 |
| 2.5° | 433.2 | 433.2 | 434.3 | 435.3 | 437.4 | 437.4 | 439.5 | 440.6 | 442.6 | 443.7 | 440.6 |
| 5° | 437.4 | 439.5 | 441.6 | 447.9 | 455.2 | 461.5 | 467.8 | 473.1 | 478.3 | 481.5 | 480.4 |
| 7.5° | 448.9 | 452.1 | 460.5 | 472.0 | 486.7 | 496.1 | 505.6 | 515.0 | 519.2 | 521.3 | 521.3 |
| 10° | 464.7 | 471.0 | 486.7 | 505.6 | 522.4 | 537.1 | 544.4 | 550.7 | 552.8 | 554.9 | 552.8 |
| 12.5° | 486.7 | 495.1 | 519.2 | 543.3 | 562.2 | 569.6 | 568.5 | 560.1 | 548.6 | 546.5 | 544.4 |
| 15° | 515.0 | 525.5 | 552.8 | 581.1 | 595.8 | 586.4 | 562.2 | 553.8 | 551.7 | 558.0 | 555.9 |
| 17.5° | 539.2 | 551.7 | 585.3 | 614.7 | 611.5 | 579.0 | 571.7 | 575.9 | 573.8 | 574.8 | 574.8 |
| 20° | 562.2 | 580.1 | 615.7 | 635.7 | 608.4 | 587.4 | 581.1 | 575.9 | 569.6 | 571.7 | 569.6 |
| 22.5° | 591.6 | 604.2 | 645.1 | 646.1 | 604.2 | 587.4 | 573.8 | 563.3 | 561.2 | 562.2 | 563.3 |
| 25° | 614.7 | 634.6 | 670.3 | 638.8 | 604.2 | 570.6 | 551.7 | 549.6 | 550.7 | 557.0 | 554.9 |
| 27.5° | 646.1 | 666.1 | 690.2 | 634.6 | 579.0 | 543.3 | 536.0 | 535.0 | 527.6 | 529.7 | 529.7 |
| 30° | 675.5 | 699.6 | 700.7 | 634.6 | 547.5 | 520.3 | 509.8 | 490.9 | 475.2 | 478.3 | 477.3 |
| 32.5° | 715.4 | 736.4 | 702.8 | 609.4 | 511.9 | 489.9 | 461.5 | 432.2 | 424.8 | 429.0 | 430.1 |
| 35° | 761.5 | 778.3 | 704.9 | 567.5 | 476.2 | 446.8 | 395.4 | 378.7 | 377.6 | 380.8 | 383.9 |
| 37.5° | 822.4 | 831.8 | 720.6 | 519.2 | 441.6 | 379.7 | 339.9 | 335.7 | 326.2 | 319.9 | 321.0 |
| 40° | 896.8 | 885.3 | 751.0 | 476.2 | 400.7 | 318.9 | 302.1 | 290.6 | 272.7 | 254.9 | 258.0 |
| 42.5° | 979.7 | 947.2 | 760.5 | 441.6 | 345.1 | 281.1 | 265.4 | 247.5 | 225.5 | 206.6 | 205.6 |
| 45° | 1068.9 | 1016.4 | 752.1 | 414.3 | 289.5 | 252.8 | 236.0 | 215.0 | 188.8 | 173.1 | 173.1 |
| 47.5° | 1174.8 | 1082.5 | 725.9 | 392.3 | 250.7 | 227.6 | 206.6 | 185.7 | 167.8 | 153.1 | 153.1 |
| 50° | 1291.2 | 1159.1 | 707.0 | 353.5 | 223.4 | 203.5 | 182.5 | 165.7 | 152.1 | 140.6 | 140.6 |
| 52.5° | 1414.0 | 1231.4 | 691.2 | 296.8 | 199.3 | 181.5 | 166.8 | 153.1 | 141.6 | 126.9 | 124.8 |
| 55° | 1538.8 | 1300.7 | 698.6 | 242.3 | 177.3 | 165.7 | 156.3 | 142.7 | 138.5 | 135.3 | 133.2 |
| 57.5° | 1668.9 | 1376.2 | 716.4 | 198.2 | 158.4 | 157.3 | 153.1 | 162.6 | 172.0 | 165.7 | 162.6 |
| 60° | 1770.6 | 1434.9 | 718.5 | 166.8 | 146.9 | 165.7 | 186.7 | 189.9 | 164.7 | 150.0 | 148.9 |
| 62.5° | 1851.4 | 1490.5 | 669.2 | 144.8 | 150.0 | 195.1 | 199.3 | 167.8 | 142.7 | 136.4 | 136.4 |
| 65° | 1893.3 | 1510.5 | 538.1 | 132.2 | 156.3 | 186.7 | 180.4 | 151.0 | 133.2 | 132.2 | 132.2 |
| 67.5° | 1872.3 | 1494.7 | 376.6 | 118.5 | 138.5 | 161.5 | 161.5 | 138.5 | 122.7 | 128.0 | 125.9 |
| 70° | 1771.6 | 1417.1 | 248.6 | 107.0 | 121.7 | 145.8 | 150.0 | 129.0 | 114.3 | 117.5 | 114.3 |
| 72.5° | 1561.9 | 1278.6 | 163.6 | 94.4 | 104.9 | 129.0 | 139.5 | 118.5 | 104.9 | 103.8 | 100.7 |
| 73° | 1521.0 | 1226.2 | 154.2 | 92.3 | 101.7 | 124.8 | 136.4 | 116.4 | 102.8 | 99.6 | 97.6 |
| 75° | 1290.2 | 1022.7 | 116.4 | 82.9 | 90.2 | 112.2 | 126.9 | 109.1 | 94.4 | 90.2 | 88.1 |
| 77.5° | 939.8 | 709.1 | 87.1 | 70.3 | 75.5 | 97.6 | 112.2 | 99.6 | 83.9 | 78.7 | 77.6 |
| 80° | 586.4 | 386.0 | 65.0 | 56.6 | 59.8 | 81.8 | 98.6 | 89.2 | 72.4 | 66.1 | 65.0 |
| 82.5° | 229.7 | 125.9 | 45.1 | 42.0 | 44.1 | 61.9 | 82.9 | 77.6 | 60.8 | 55.6 | 52.4 |
| 85° | 37.8 | 43.0 | 29.4 | 28.3 | 28.3 | 44.1 | 62.9 | 59.8 | 40.9 | 35.7 | 31.5 |
| 87.5° | 10.5 | 19.9 | 11.5 | 10.5 | 10.5 | 18.9 | 34.6 | 27.3 | 16.8 | 13.6 | 12.6 |
| 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)