

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: P595483

Luminaire Tested: **ISW-PA1A-760-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595483
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-PA1A-760-U-T3
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 5700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4079 lumens
Efficiency: N/A
Efficacy: 141.6 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

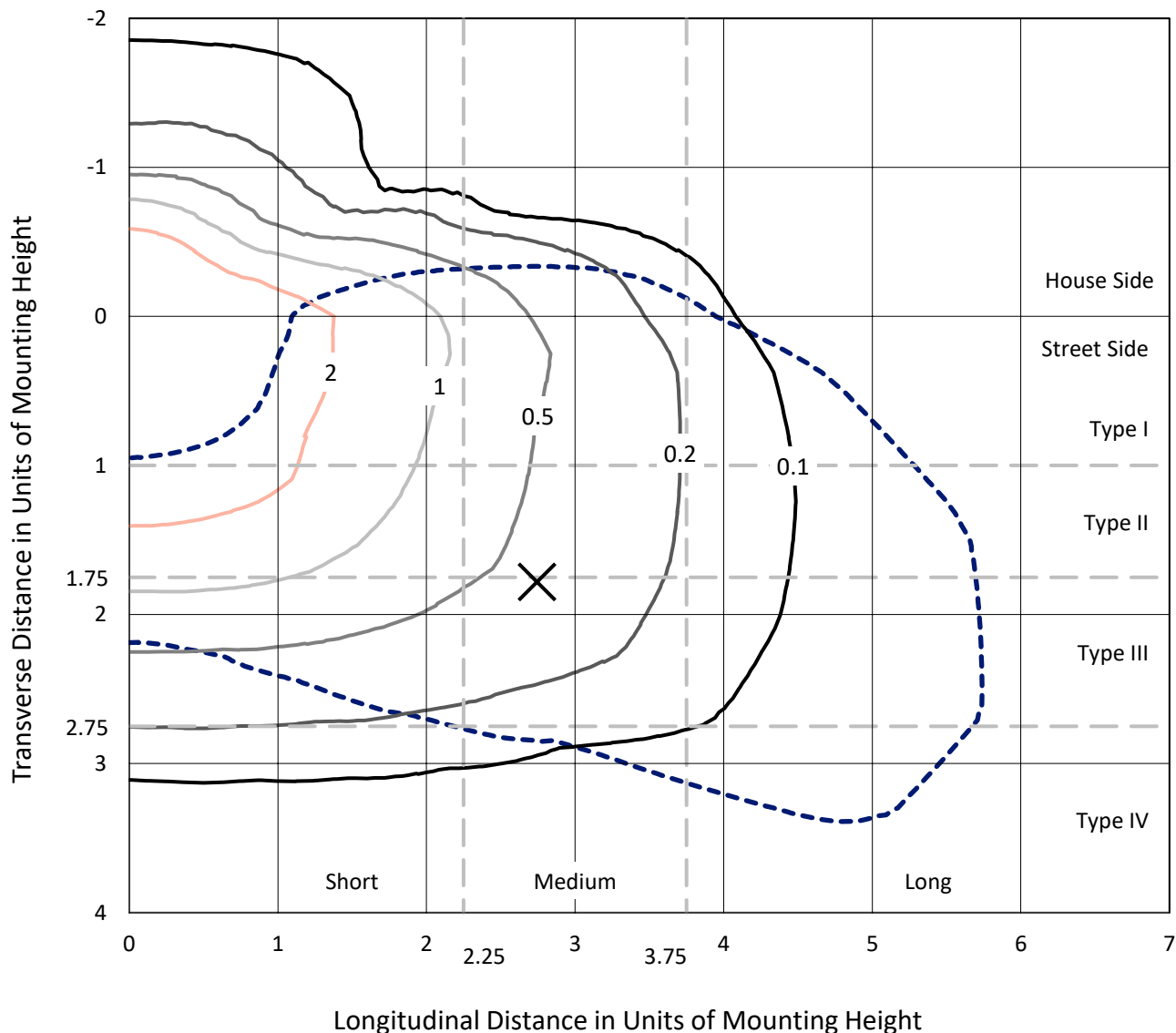
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

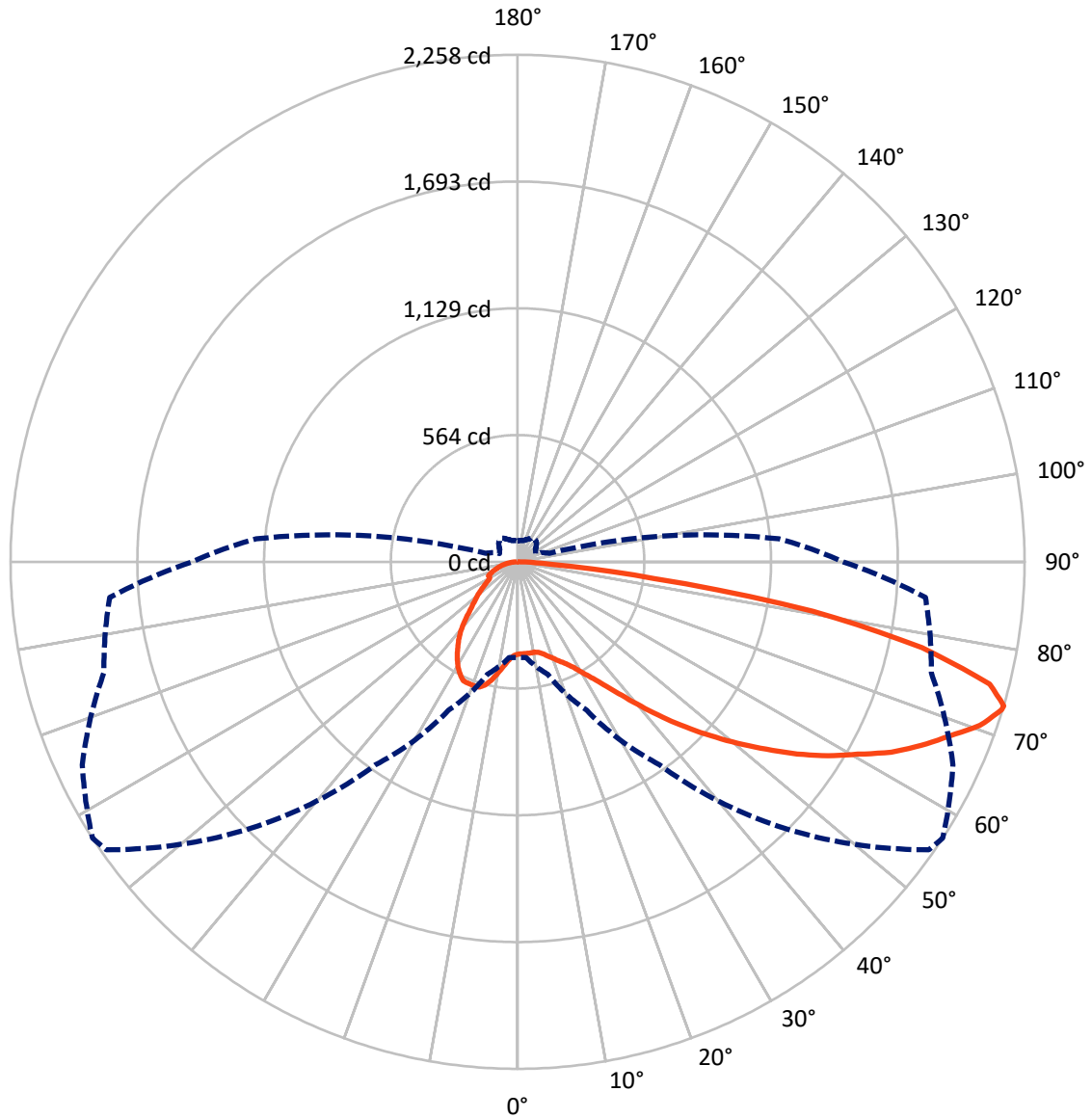
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.5 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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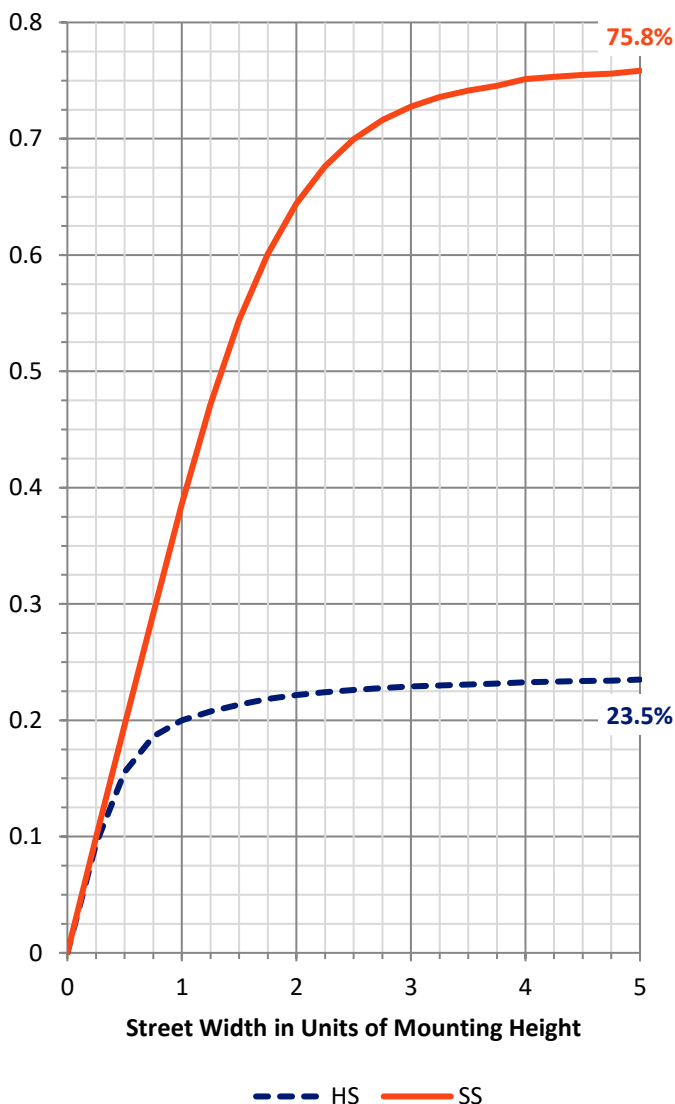
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 973.1 | 0.0 | 973.1 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 3105.9 | 0.0 | 3105.9 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 4079.0 | 0.0 | 4079.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.0 | 1.0 |
| 10°-20° | 134.9 | 3.3 |
| 20°-30° | 249.1 | 6.1 |
| 30°-40° | 384.7 | 9.4 |
| 40°-50° | 579.0 | 14.2 |
| 50°-60° | 847.5 | 20.8 |
| 60°-70° | 1000.8 | 24.5 |
| 70°-80° | 716.5 | 17.6 |
| 80°-90° | 125.5 | 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° | 4079.0 | 100.0 |
| 0°-180° | 4079.0 | 100.0 |

Coefficient of Utilization

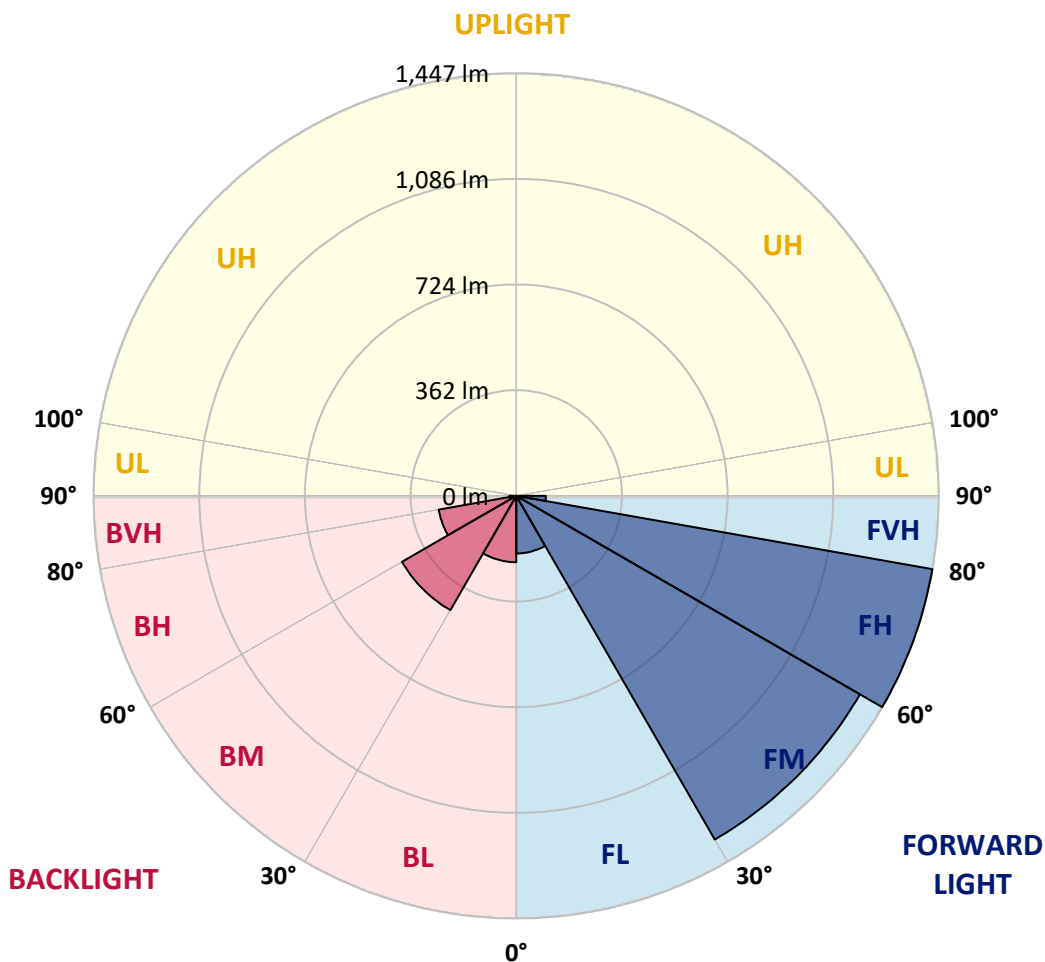


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 197.7 | 4.8 | | | |
| FM (30°-60°) | 1359.2 | 33.3 | | | |
| FH (60°-80°) | 1447.4 | 35.5 | | | G1/1800 |
| FVH (80°-90°) | 101.6 | 2.5 | | | G2/225 |
| BL (0°-30°) | 227.4 | 5.6 | B1/500 | | |
| BM (30°-60°) | 451.9 | 11.1 | B1/1000 | | |
| BH (60°-80°) | 269.8 | 6.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 24.0 | 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° | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 |
| 2.5° | 406.0 | 408.0 | 407.0 | 408.0 | 411.0 | 409.0 | 409.0 | 410.0 | 411.0 | 410.0 | 412.0 |
| 5° | 389.0 | 390.0 | 392.0 | 396.0 | 403.0 | 405.0 | 410.0 | 410.0 | 412.0 | 414.0 | 417.0 |
| 7.5° | 361.0 | 363.0 | 367.0 | 371.0 | 383.0 | 395.0 | 408.0 | 410.0 | 417.0 | 422.0 | 424.0 |
| 10° | 356.0 | 358.0 | 359.0 | 365.0 | 377.0 | 389.0 | 405.0 | 409.0 | 422.0 | 430.0 | 439.0 |
| 12.5° | 351.0 | 353.0 | 356.0 | 364.0 | 379.0 | 392.0 | 409.0 | 413.0 | 429.0 | 445.0 | 456.0 |
| 15° | 355.0 | 356.0 | 359.0 | 367.0 | 382.0 | 400.0 | 422.0 | 425.0 | 443.0 | 463.0 | 480.0 |
| 17.5° | 365.0 | 366.0 | 365.0 | 372.0 | 386.0 | 407.0 | 437.0 | 442.0 | 464.0 | 484.0 | 501.0 |
| 20° | 388.0 | 389.0 | 385.0 | 385.0 | 395.0 | 416.0 | 453.0 | 460.0 | 487.0 | 509.0 | 526.0 |
| 22.5° | 438.0 | 436.0 | 426.0 | 413.0 | 413.0 | 430.0 | 471.0 | 481.0 | 515.0 | 532.9 | 547.9 |
| 25° | 509.0 | 509.0 | 493.0 | 469.0 | 453.0 | 451.0 | 492.0 | 503.0 | 542.9 | 564.9 | 573.9 |
| 27.5° | 594.9 | 595.9 | 569.9 | 537.9 | 507.0 | 492.0 | 522.0 | 532.9 | 577.9 | 600.9 | 603.9 |
| 30° | 670.9 | 671.9 | 645.9 | 615.9 | 577.9 | 544.9 | 561.9 | 573.9 | 625.9 | 643.9 | 633.9 |
| 32.5° | 746.9 | 747.9 | 729.9 | 688.9 | 648.9 | 607.9 | 612.9 | 619.9 | 672.9 | 689.9 | 673.9 |
| 35° | 812.9 | 815.9 | 797.9 | 766.9 | 724.9 | 687.9 | 678.9 | 679.9 | 727.9 | 738.9 | 717.9 |
| 37.5° | 879.9 | 879.9 | 868.9 | 839.9 | 803.9 | 762.9 | 750.9 | 753.9 | 796.9 | 807.9 | 777.9 |
| 40° | 964.9 | 968.9 | 962.9 | 926.9 | 885.9 | 851.9 | 839.9 | 843.9 | 890.9 | 884.9 | 852.9 |
| 42.5° | 1067.9 | 1076.9 | 1066.9 | 1027.9 | 983.9 | 945.9 | 945.9 | 945.9 | 985.9 | 986.9 | 938.9 |
| 45° | 1199.9 | 1199.9 | 1189.9 | 1155.9 | 1097.9 | 1059.9 | 1046.9 | 1049.9 | 1084.9 | 1088.9 | 1032.9 |
| 47.5° | 1309.9 | 1319.9 | 1308.9 | 1283.9 | 1237.9 | 1201.9 | 1160.9 | 1155.9 | 1184.9 | 1184.9 | 1136.9 |
| 50° | 1398.9 | 1416.9 | 1407.9 | 1418.9 | 1385.9 | 1367.9 | 1283.9 | 1269.9 | 1279.9 | 1289.9 | 1236.9 |
| 52.5° | 1472.9 | 1486.9 | 1483.9 | 1515.9 | 1531.9 | 1541.9 | 1408.9 | 1386.9 | 1394.9 | 1393.9 | 1345.9 |
| 55° | 1477.9 | 1482.9 | 1527.9 | 1599.8 | 1662.8 | 1709.8 | 1534.9 | 1510.9 | 1502.9 | 1498.9 | 1461.9 |
| 57.5° | 1448.9 | 1451.9 | 1541.9 | 1626.8 | 1763.8 | 1817.8 | 1653.8 | 1629.8 | 1618.8 | 1604.8 | 1589.8 |
| 60° | 1378.9 | 1393.9 | 1511.9 | 1642.8 | 1823.8 | 1901.8 | 1764.8 | 1739.8 | 1731.8 | 1701.8 | 1735.8 |
| 62.5° | 1289.9 | 1296.9 | 1414.9 | 1609.8 | 1831.8 | 1937.8 | 1881.8 | 1866.8 | 1841.8 | 1798.8 | 1865.8 |
| 65° | 1163.9 | 1162.9 | 1266.9 | 1512.9 | 1790.8 | 1955.8 | 1980.8 | 1972.8 | 1941.8 | 1867.8 | 1981.8 |
| 67.5° | 955.9 | 978.9 | 1080.9 | 1340.9 | 1691.8 | 1973.8 | 2081.8 | 2071.8 | 2022.8 | 1929.8 | 2036.8 |
| 70° | 728.9 | 742.9 | 858.9 | 1082.9 | 1494.9 | 1924.8 | 2180.8 | 2183.8 | 2094.8 | 1942.8 | 2012.8 |
| 72.5° | 465.0 | 489.0 | 580.9 | 788.9 | 1196.9 | 1742.8 | 2239.8 | 2253.8 | 2134.8 | 1924.8 | 1863.8 |
| 73° | 426.0 | 428.0 | 518.0 | 729.9 | 1103.9 | 1677.8 | 2235.8 | 2257.8 | 2138.8 | 1906.8 | 1822.8 |
| 75° | 254.0 | 265.0 | 319.0 | 485.0 | 787.9 | 1347.9 | 2127.8 | 2171.8 | 2117.8 | 1826.8 | 1597.8 |
| 77.5° | 119.0 | 127.0 | 157.0 | 256.0 | 429.0 | 810.9 | 1788.8 | 1840.8 | 1876.8 | 1598.8 | 1217.9 |
| 80° | 63.0 | 64.0 | 77.0 | 129.0 | 230.0 | 334.0 | 1246.9 | 1332.9 | 1383.9 | 1203.9 | 818.9 |
| 82.5° | 53.0 | 53.0 | 60.0 | 83.0 | 147.0 | 130.0 | 514.0 | 611.9 | 749.9 | 592.9 | 322.0 |
| 85° | 43.0 | 44.0 | 60.0 | 62.0 | 105.0 | 67.0 | 123.0 | 154.0 | 291.0 | 262.0 | 36.0 |
| 87.5° | 14.0 | 16.0 | 34.0 | 44.0 | 56.0 | 26.0 | 31.0 | 34.0 | 34.0 | 50.0 | 12.0 |
| 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° | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 | 411.0 |
| 2.5° | 413.0 | 413.0 | 414.0 | 415.0 | 417.0 | 417.0 | 419.0 | 420.0 | 422.0 | 423.0 | 420.0 |
| 5° | 417.0 | 419.0 | 421.0 | 427.0 | 434.0 | 440.0 | 446.0 | 451.0 | 456.0 | 459.0 | 458.0 |
| 7.5° | 428.0 | 431.0 | 439.0 | 450.0 | 464.0 | 473.0 | 482.0 | 491.0 | 495.0 | 497.0 | 497.0 |
| 10° | 443.0 | 449.0 | 464.0 | 482.0 | 498.0 | 512.0 | 519.0 | 525.0 | 526.9 | 528.9 | 526.9 |
| 12.5° | 464.0 | 472.0 | 495.0 | 518.0 | 535.9 | 542.9 | 541.9 | 533.9 | 523.0 | 521.0 | 519.0 |
| 15° | 491.0 | 501.0 | 526.9 | 553.9 | 567.9 | 558.9 | 535.9 | 527.9 | 526.0 | 531.9 | 529.9 |
| 17.5° | 514.0 | 526.0 | 557.9 | 585.9 | 582.9 | 551.9 | 544.9 | 548.9 | 546.9 | 547.9 | 547.9 |
| 20° | 535.9 | 552.9 | 586.9 | 605.9 | 579.9 | 559.9 | 553.9 | 548.9 | 542.9 | 544.9 | 542.9 |
| 22.5° | 563.9 | 575.9 | 614.9 | 615.9 | 575.9 | 559.9 | 546.9 | 536.9 | 534.9 | 535.9 | 536.9 |
| 25° | 585.9 | 604.9 | 638.9 | 608.9 | 575.9 | 543.9 | 526.0 | 524.0 | 525.0 | 530.9 | 528.9 |
| 27.5° | 615.9 | 634.9 | 657.9 | 604.9 | 551.9 | 518.0 | 511.0 | 510.0 | 503.0 | 505.0 | 505.0 |
| 30° | 643.9 | 666.9 | 667.9 | 604.9 | 522.0 | 496.0 | 486.0 | 468.0 | 453.0 | 456.0 | 455.0 |
| 32.5° | 681.9 | 701.9 | 669.9 | 580.9 | 488.0 | 467.0 | 440.0 | 412.0 | 405.0 | 409.0 | 410.0 |
| 35° | 725.9 | 741.9 | 671.9 | 540.9 | 454.0 | 426.0 | 377.0 | 361.0 | 360.0 | 363.0 | 366.0 |
| 37.5° | 783.9 | 792.9 | 686.9 | 495.0 | 421.0 | 362.0 | 324.0 | 320.0 | 311.0 | 305.0 | 306.0 |
| 40° | 854.9 | 843.9 | 715.9 | 454.0 | 382.0 | 304.0 | 288.0 | 277.0 | 260.0 | 243.0 | 246.0 |
| 42.5° | 933.9 | 902.9 | 724.9 | 421.0 | 329.0 | 268.0 | 253.0 | 236.0 | 215.0 | 197.0 | 196.0 |
| 45° | 1018.9 | 968.9 | 716.9 | 395.0 | 276.0 | 241.0 | 225.0 | 205.0 | 180.0 | 165.0 | 165.0 |
| 47.5° | 1119.9 | 1031.9 | 691.9 | 374.0 | 239.0 | 217.0 | 197.0 | 177.0 | 160.0 | 146.0 | 146.0 |
| 50° | 1230.9 | 1104.9 | 673.9 | 337.0 | 213.0 | 194.0 | 174.0 | 158.0 | 145.0 | 134.0 | 134.0 |
| 52.5° | 1347.9 | 1173.9 | 658.9 | 283.0 | 190.0 | 173.0 | 159.0 | 146.0 | 135.0 | 121.0 | 119.0 |
| 55° | 1466.9 | 1239.9 | 665.9 | 231.0 | 169.0 | 158.0 | 149.0 | 136.0 | 132.0 | 129.0 | 127.0 |
| 57.5° | 1590.8 | 1311.9 | 682.9 | 189.0 | 151.0 | 150.0 | 146.0 | 155.0 | 164.0 | 158.0 | 155.0 |
| 60° | 1687.8 | 1367.9 | 684.9 | 159.0 | 140.0 | 158.0 | 178.0 | 181.0 | 157.0 | 143.0 | 142.0 |
| 62.5° | 1764.8 | 1420.9 | 637.9 | 138.0 | 143.0 | 186.0 | 190.0 | 160.0 | 136.0 | 130.0 | 130.0 |
| 65° | 1804.8 | 1439.9 | 513.0 | 126.0 | 149.0 | 178.0 | 172.0 | 144.0 | 127.0 | 126.0 | 126.0 |
| 67.5° | 1784.8 | 1424.9 | 359.0 | 113.0 | 132.0 | 154.0 | 154.0 | 132.0 | 117.0 | 122.0 | 120.0 |
| 70° | 1688.8 | 1350.9 | 237.0 | 102.0 | 116.0 | 139.0 | 143.0 | 123.0 | 109.0 | 112.0 | 109.0 |
| 72.5° | 1488.9 | 1218.9 | 156.0 | 90.0 | 100.0 | 123.0 | 133.0 | 113.0 | 100.0 | 99.0 | 96.0 |
| 73° | 1449.9 | 1168.9 | 147.0 | 88.0 | 97.0 | 119.0 | 130.0 | 111.0 | 98.0 | 95.0 | 93.0 |
| 75° | 1229.9 | 974.9 | 111.0 | 79.0 | 86.0 | 107.0 | 121.0 | 104.0 | 90.0 | 86.0 | 84.0 |
| 77.5° | 895.9 | 675.9 | 83.0 | 67.0 | 72.0 | 93.0 | 107.0 | 95.0 | 80.0 | 75.0 | 74.0 |
| 80° | 558.9 | 368.0 | 62.0 | 54.0 | 57.0 | 78.0 | 94.0 | 85.0 | 69.0 | 63.0 | 62.0 |
| 82.5° | 219.0 | 120.0 | 43.0 | 40.0 | 42.0 | 59.0 | 79.0 | 74.0 | 58.0 | 53.0 | 50.0 |
| 85° | 36.0 | 41.0 | 28.0 | 27.0 | 27.0 | 42.0 | 60.0 | 57.0 | 39.0 | 34.0 | 30.0 |
| 87.5° | 10.0 | 19.0 | 11.0 | 10.0 | 10.0 | 18.0 | 33.0 | 26.0 | 16.0 | 13.0 | 12.0 |
| 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)