

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: P594486

Luminaire Tested: **ISS-PA1A-750-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594486
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: ISS-PA1A-750-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 5000K, 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: 4165 lumens
Efficiency: N/A
Efficacy: 144.1 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

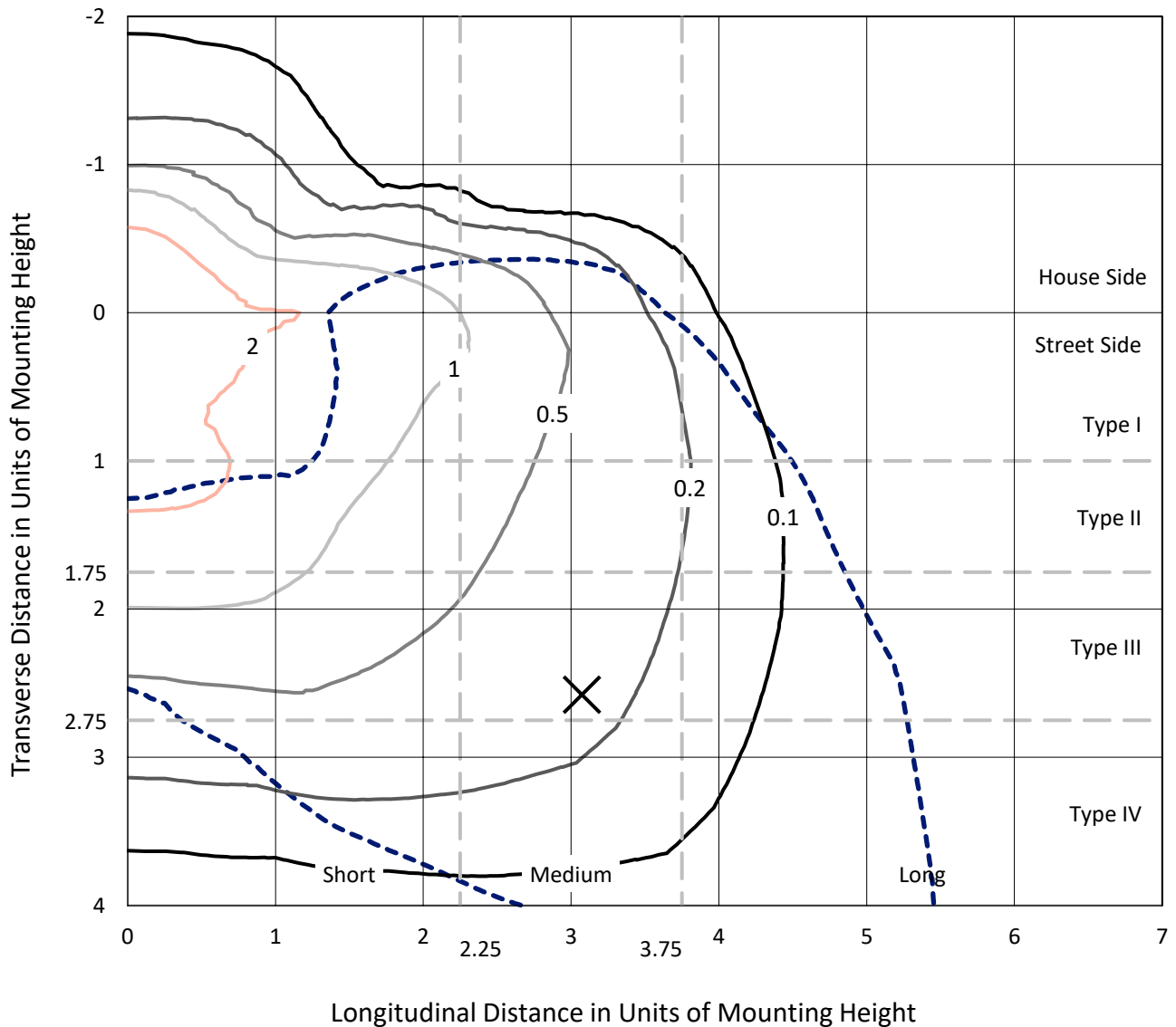
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

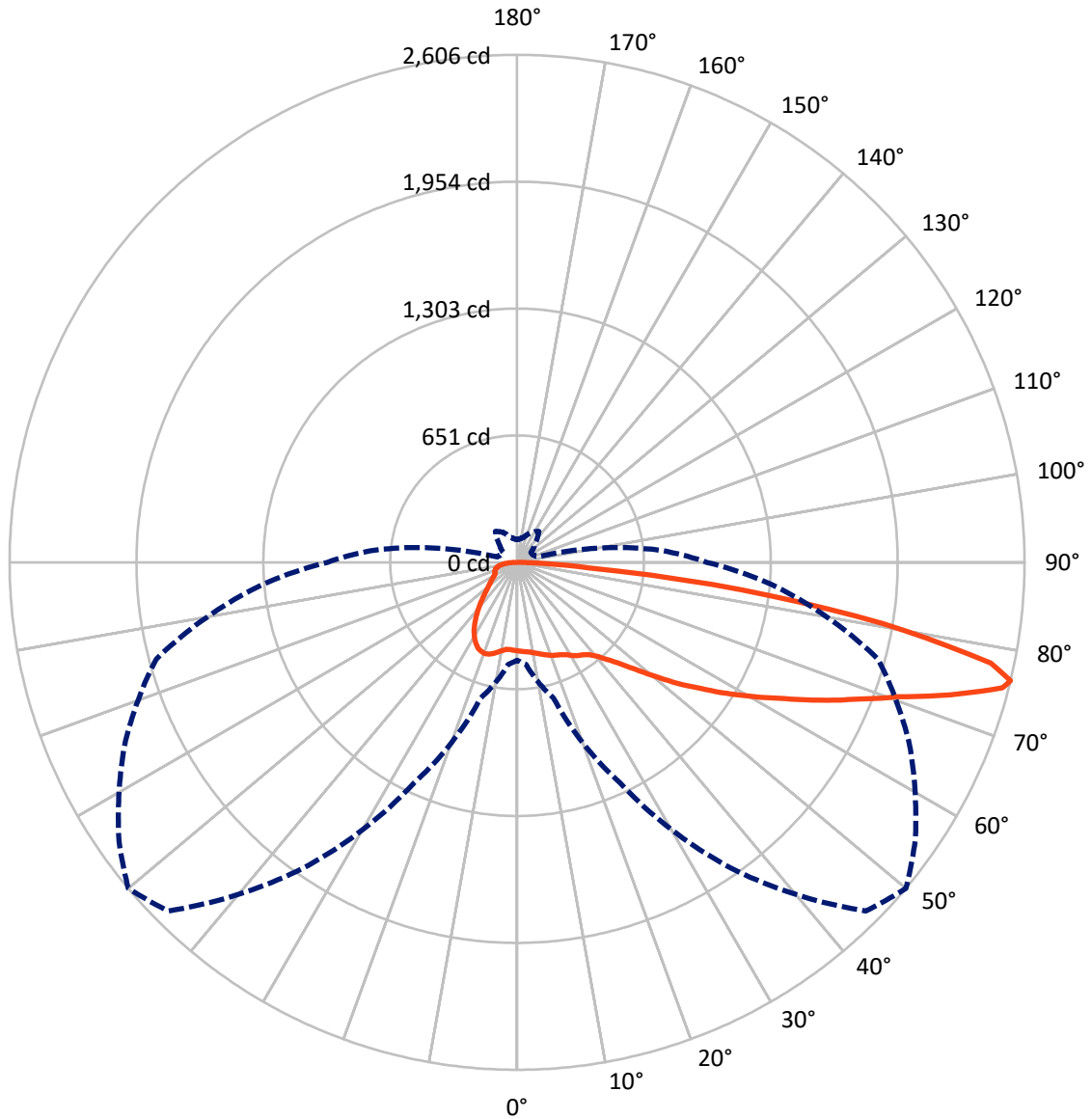
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.4 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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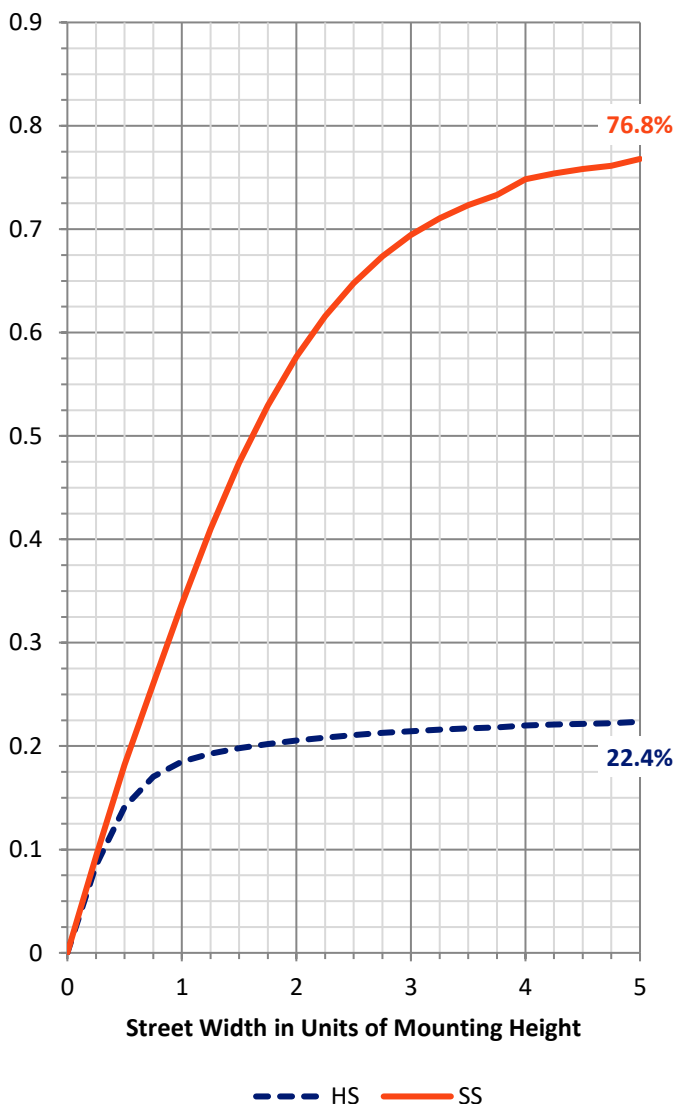
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 952.8 | 0.0 | 952.8 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 3212.2 | 0.0 | 3212.2 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 4165.0 | 0.0 | 4165.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.1 | 1.1 |
| 10°-20° | 138.6 | 3.3 |
| 20°-30° | 234.1 | 5.6 |
| 30°-40° | 320.9 | 7.7 |
| 40°-50° | 472.6 | 11.3 |
| 50°-60° | 743.5 | 17.9 |
| 60°-70° | 1070.2 | 25.7 |
| 70°-80° | 973.1 | 23.4 |
| 80°-90° | 168.0 | 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° | 4165.0 | 100.0 |
| 0°-180° | 4165.0 | 100.0 |

Coefficient of Utilization

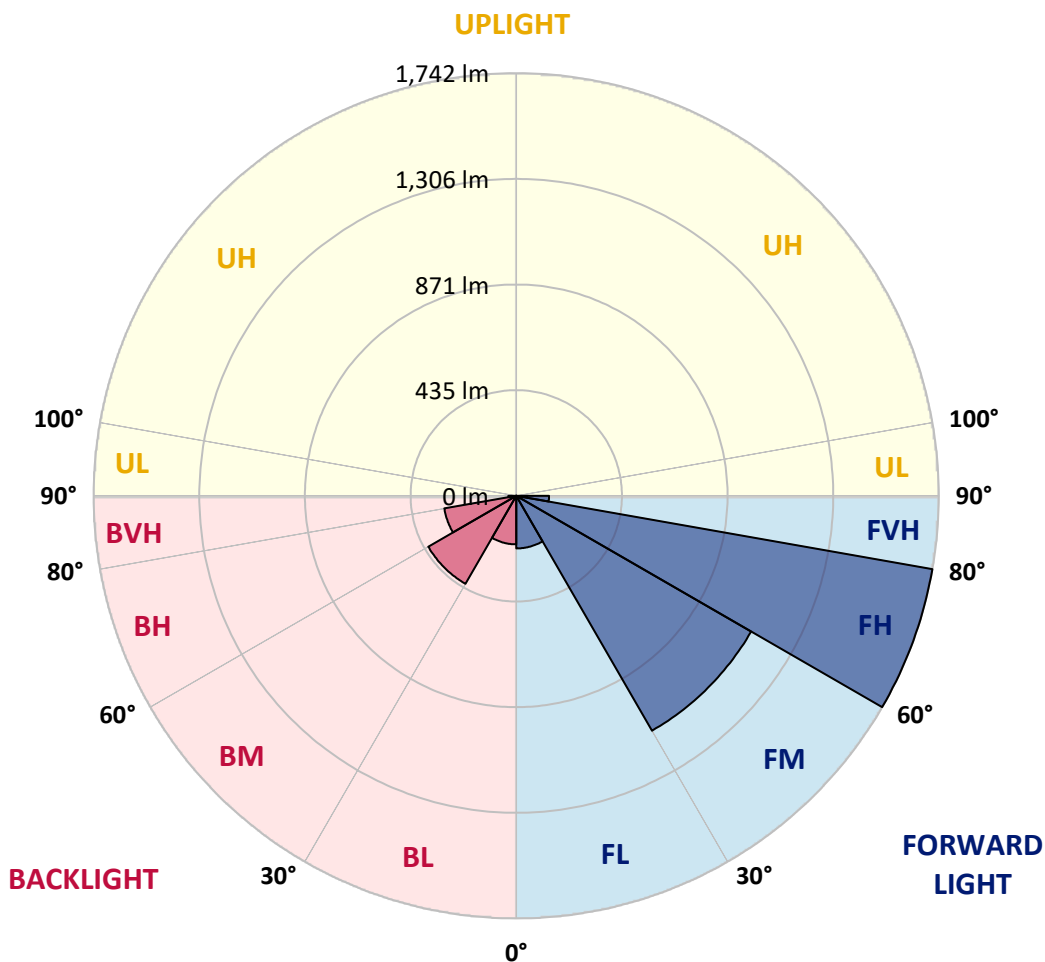


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 216.8 | 5.2 | | | |
| FM (30°-60°) | 1118.2 | 26.8 | | | |
| FH (60°-80°) | 1742.0 | 41.8 | | | G1/1800 |
| FVH (80°-90°) | 135.2 | 3.2 | | | G2/225 |
| BL (0°-30°) | 200.0 | 4.8 | B1/500 | | |
| BM (30°-60°) | 418.8 | 10.1 | B1/1000 | | |
| BH (60°-80°) | 301.2 | 7.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 32.8 | 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° | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 |
| 2.5° | 464.2 | 464.2 | 465.2 | 463.2 | 463.2 | 458.1 | 458.1 | 457.0 | 455.0 | 454.0 | 451.9 |
| 5° | 481.5 | 481.5 | 478.5 | 473.4 | 470.3 | 464.2 | 461.1 | 459.1 | 455.0 | 449.9 | 444.8 |
| 7.5° | 499.9 | 497.8 | 495.8 | 487.6 | 481.5 | 470.3 | 465.2 | 462.1 | 454.0 | 446.8 | 443.8 |
| 10° | 519.3 | 516.2 | 511.1 | 500.9 | 491.7 | 478.5 | 472.3 | 468.3 | 459.1 | 453.0 | 445.8 |
| 12.5° | 530.5 | 530.5 | 524.4 | 512.1 | 499.9 | 483.6 | 480.5 | 475.4 | 466.2 | 458.1 | 450.9 |
| 15° | 541.7 | 542.7 | 536.6 | 522.3 | 508.0 | 495.8 | 490.7 | 487.6 | 477.4 | 465.2 | 456.0 |
| 17.5° | 552.9 | 551.9 | 545.8 | 529.5 | 514.2 | 502.9 | 499.9 | 495.8 | 485.6 | 474.4 | 465.2 |
| 20° | 561.1 | 559.1 | 557.0 | 536.6 | 521.3 | 514.2 | 510.1 | 507.0 | 496.8 | 484.6 | 472.3 |
| 22.5° | 563.1 | 565.2 | 563.1 | 538.6 | 526.4 | 518.2 | 517.2 | 514.2 | 506.0 | 494.8 | 482.5 |
| 25° | 564.2 | 565.2 | 568.2 | 544.8 | 533.5 | 527.4 | 525.4 | 523.3 | 517.2 | 508.0 | 491.7 |
| 27.5° | 569.3 | 570.3 | 570.3 | 548.9 | 542.7 | 538.6 | 536.6 | 536.6 | 533.5 | 522.3 | 506.0 |
| 30° | 570.3 | 571.3 | 573.3 | 559.1 | 557.0 | 554.0 | 555.0 | 554.0 | 548.9 | 536.6 | 518.2 |
| 32.5° | 577.4 | 578.4 | 583.5 | 565.2 | 567.2 | 570.3 | 571.3 | 570.3 | 560.1 | 549.9 | 534.6 |
| 35° | 600.9 | 599.9 | 603.9 | 580.5 | 578.4 | 579.5 | 582.5 | 581.5 | 577.4 | 568.2 | 558.0 |
| 37.5° | 676.4 | 676.4 | 665.2 | 616.2 | 600.9 | 598.8 | 600.9 | 606.0 | 607.0 | 598.8 | 590.7 |
| 40° | 809.0 | 801.9 | 795.7 | 689.6 | 640.7 | 628.4 | 634.5 | 637.6 | 645.8 | 645.8 | 645.8 |
| 42.5° | 945.7 | 946.7 | 944.7 | 803.9 | 712.1 | 681.5 | 682.5 | 689.6 | 707.0 | 710.0 | 719.2 |
| 45° | 1067.1 | 1074.2 | 1089.5 | 936.5 | 817.2 | 748.8 | 741.7 | 748.8 | 773.3 | 793.7 | 817.2 |
| 47.5° | 1162.0 | 1153.8 | 1187.5 | 1075.3 | 937.5 | 840.6 | 822.3 | 824.3 | 858.0 | 890.6 | 927.3 |
| 50° | 1243.6 | 1245.6 | 1260.9 | 1217.1 | 1089.5 | 944.7 | 920.2 | 916.1 | 964.1 | 998.7 | 1061.0 |
| 52.5° | 1335.4 | 1329.3 | 1351.7 | 1341.5 | 1237.5 | 1072.2 | 1033.4 | 1021.2 | 1073.2 | 1122.2 | 1189.5 |
| 55° | 1379.3 | 1385.4 | 1431.3 | 1456.8 | 1377.2 | 1186.5 | 1143.6 | 1147.7 | 1202.8 | 1254.8 | 1348.7 |
| 57.5° | 1456.8 | 1462.9 | 1516.0 | 1569.0 | 1501.7 | 1307.9 | 1270.1 | 1270.1 | 1332.3 | 1390.5 | 1535.4 |
| 60° | 1562.9 | 1563.9 | 1618.0 | 1709.8 | 1610.8 | 1425.2 | 1400.7 | 1399.7 | 1467.0 | 1534.3 | 1755.7 |
| 62.5° | 1609.8 | 1622.1 | 1702.7 | 1822.0 | 1753.7 | 1569.0 | 1540.5 | 1548.6 | 1608.8 | 1687.4 | 2001.6 |
| 65° | 1546.6 | 1573.1 | 1741.4 | 1897.5 | 1881.2 | 1719.0 | 1707.8 | 1719.0 | 1755.7 | 1840.4 | 2261.7 |
| 67.5° | 1337.4 | 1373.1 | 1670.0 | 1948.5 | 1983.2 | 1892.4 | 1876.1 | 1874.1 | 1897.5 | 1992.4 | 2426.0 |
| 70° | 1229.3 | 1250.7 | 1481.3 | 1967.9 | 2064.8 | 2067.9 | 2067.9 | 2054.6 | 2051.6 | 2120.9 | 2441.3 |
| 72.5° | 1012.0 | 1034.5 | 1249.7 | 1859.8 | 2142.4 | 2302.5 | 2326.0 | 2277.0 | 2201.5 | 2187.2 | 2185.2 |
| 75° | 721.3 | 737.6 | 923.3 | 1462.9 | 2043.4 | 2528.0 | 2574.9 | 2480.0 | 2269.9 | 2042.4 | 1593.5 |
| 76° | 502.9 | 526.4 | 721.3 | 1249.7 | 1918.9 | 2532.1 | 2605.5 | 2495.3 | 2224.0 | 1917.9 | 1313.0 |
| 77.5° | 255.0 | 263.2 | 417.2 | 839.6 | 1605.7 | 2415.8 | 2487.2 | 2363.7 | 2024.0 | 1549.6 | 833.5 |
| 80° | 96.9 | 100.0 | 148.9 | 306.1 | 881.4 | 1876.1 | 1903.6 | 1737.3 | 1339.5 | 662.1 | 299.9 |
| 82.5° | 51.0 | 53.0 | 83.7 | 151.0 | 362.2 | 1031.4 | 1164.0 | 969.2 | 525.4 | 198.9 | 87.7 |
| 85° | 25.5 | 27.5 | 49.0 | 91.8 | 179.5 | 322.4 | 373.4 | 353.0 | 174.4 | 75.5 | 32.6 |
| 87.5° | 10.2 | 12.2 | 24.5 | 40.8 | 72.4 | 63.3 | 70.4 | 90.8 | 56.1 | 35.7 | 11.2 |
| 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° | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 | 454.0 |
| 2.5° | 451.9 | 450.9 | 451.9 | 450.9 | 451.9 | 451.9 | 453.0 | 450.9 | 450.9 | 453.0 | 449.9 |
| 5° | 444.8 | 443.8 | 444.8 | 446.8 | 447.9 | 449.9 | 454.0 | 453.0 | 455.0 | 457.0 | 458.1 |
| 7.5° | 441.7 | 440.7 | 443.8 | 444.8 | 447.9 | 451.9 | 458.1 | 462.1 | 464.2 | 468.3 | 466.2 |
| 10° | 444.8 | 444.8 | 448.9 | 451.9 | 457.0 | 462.1 | 467.2 | 471.3 | 476.4 | 479.5 | 478.5 |
| 12.5° | 449.9 | 448.9 | 456.0 | 460.1 | 467.2 | 472.3 | 476.4 | 478.5 | 482.5 | 486.6 | 485.6 |
| 15° | 455.0 | 456.0 | 466.2 | 474.4 | 482.5 | 484.6 | 485.6 | 483.6 | 485.6 | 487.6 | 487.6 |
| 17.5° | 465.2 | 466.2 | 477.4 | 486.6 | 493.8 | 491.7 | 486.6 | 481.5 | 481.5 | 482.5 | 483.6 |
| 20° | 473.4 | 475.4 | 488.7 | 496.8 | 500.9 | 492.7 | 484.6 | 478.5 | 475.4 | 476.4 | 475.4 |
| 22.5° | 482.5 | 486.6 | 499.9 | 504.0 | 497.8 | 487.6 | 477.4 | 469.3 | 469.3 | 470.3 | 470.3 |
| 25° | 493.8 | 495.8 | 505.0 | 502.9 | 491.7 | 476.4 | 468.3 | 465.2 | 464.2 | 465.2 | 466.2 |
| 27.5° | 504.0 | 505.0 | 510.1 | 495.8 | 474.4 | 458.1 | 455.0 | 456.0 | 457.0 | 458.1 | 459.1 |
| 30° | 517.2 | 519.3 | 514.2 | 485.6 | 453.0 | 434.6 | 434.6 | 440.7 | 442.8 | 445.8 | 444.8 |
| 32.5° | 533.5 | 535.6 | 520.3 | 472.3 | 425.4 | 407.0 | 408.1 | 417.2 | 423.4 | 425.4 | 426.4 |
| 35° | 561.1 | 557.0 | 524.4 | 454.0 | 395.8 | 373.4 | 374.4 | 385.6 | 393.8 | 396.8 | 394.8 |
| 37.5° | 594.8 | 593.7 | 530.5 | 430.5 | 359.1 | 338.7 | 339.7 | 344.8 | 353.0 | 354.0 | 355.0 |
| 40° | 650.9 | 642.7 | 540.7 | 399.9 | 322.4 | 303.0 | 301.0 | 304.0 | 303.0 | 305.0 | 306.1 |
| 42.5° | 731.5 | 710.0 | 554.0 | 365.2 | 289.7 | 269.3 | 267.3 | 262.2 | 256.1 | 249.9 | 246.9 |
| 45° | 826.3 | 792.7 | 570.3 | 329.5 | 256.1 | 237.7 | 232.6 | 226.5 | 214.2 | 201.0 | 196.9 |
| 47.5° | 948.8 | 884.5 | 588.6 | 293.8 | 224.4 | 210.2 | 206.1 | 196.9 | 182.6 | 167.3 | 164.2 |
| 50° | 1074.2 | 992.6 | 607.0 | 264.2 | 198.9 | 190.8 | 186.7 | 177.5 | 159.1 | 144.9 | 141.8 |
| 52.5° | 1220.1 | 1099.7 | 626.4 | 237.7 | 176.5 | 176.5 | 173.4 | 159.1 | 141.8 | 128.5 | 126.5 |
| 55° | 1388.5 | 1209.9 | 657.0 | 212.2 | 160.2 | 164.2 | 160.2 | 145.9 | 129.6 | 120.4 | 119.4 |
| 57.5° | 1589.4 | 1349.7 | 695.8 | 184.7 | 145.9 | 148.9 | 148.9 | 138.7 | 127.5 | 121.4 | 120.4 |
| 60° | 1791.4 | 1491.5 | 720.2 | 164.2 | 134.7 | 137.7 | 143.8 | 138.7 | 131.6 | 128.5 | 127.5 |
| 62.5° | 1985.3 | 1636.4 | 678.4 | 146.9 | 123.4 | 132.6 | 147.9 | 148.9 | 141.8 | 142.8 | 142.8 |
| 65° | 2130.1 | 1746.5 | 548.9 | 131.6 | 116.3 | 135.7 | 160.2 | 161.2 | 148.9 | 145.9 | 144.9 |
| 67.5° | 2180.1 | 1777.1 | 369.3 | 121.4 | 112.2 | 137.7 | 174.4 | 170.4 | 148.9 | 142.8 | 139.8 |
| 70° | 2085.2 | 1664.9 | 239.7 | 112.2 | 106.1 | 135.7 | 185.7 | 175.5 | 147.9 | 138.7 | 134.7 |
| 72.5° | 1748.6 | 1420.1 | 160.2 | 104.1 | 100.0 | 133.6 | 192.8 | 175.5 | 144.9 | 131.6 | 127.5 |
| 75° | 1214.0 | 970.2 | 119.4 | 93.9 | 90.8 | 130.6 | 194.9 | 172.4 | 137.7 | 123.4 | 120.4 |
| 76° | 974.3 | 727.4 | 108.1 | 89.8 | 86.7 | 128.5 | 193.8 | 169.3 | 132.6 | 119.4 | 116.3 |
| 77.5° | 615.2 | 418.3 | 90.8 | 82.6 | 80.6 | 124.5 | 189.8 | 162.2 | 125.5 | 112.2 | 109.2 |
| 80° | 215.3 | 153.0 | 69.4 | 67.3 | 68.4 | 115.3 | 178.5 | 147.9 | 111.2 | 99.0 | 94.9 |
| 82.5° | 85.7 | 70.4 | 52.0 | 52.0 | 54.1 | 99.0 | 161.2 | 130.6 | 96.9 | 81.6 | 75.5 |
| 85° | 33.7 | 30.6 | 36.7 | 36.7 | 38.8 | 80.6 | 134.7 | 102.0 | 66.3 | 51.0 | 49.0 |
| 87.5° | 10.2 | 14.3 | 16.3 | 17.3 | 18.4 | 40.8 | 76.5 | 44.9 | 29.6 | 21.4 | 17.3 |
| 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)