

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: P595106

Luminaire Tested: **IST-PA1C-722-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1C-722-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3532 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

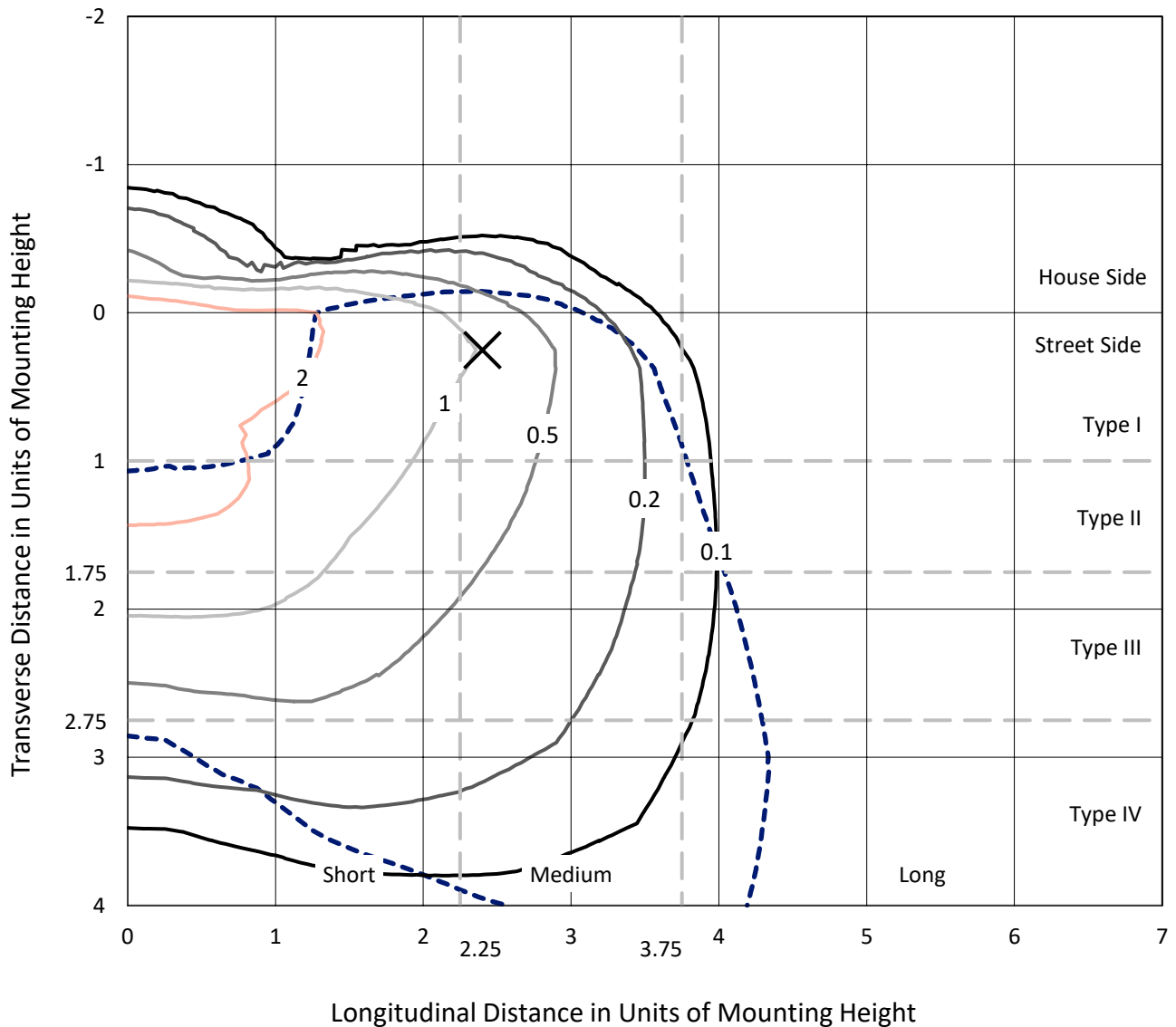
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

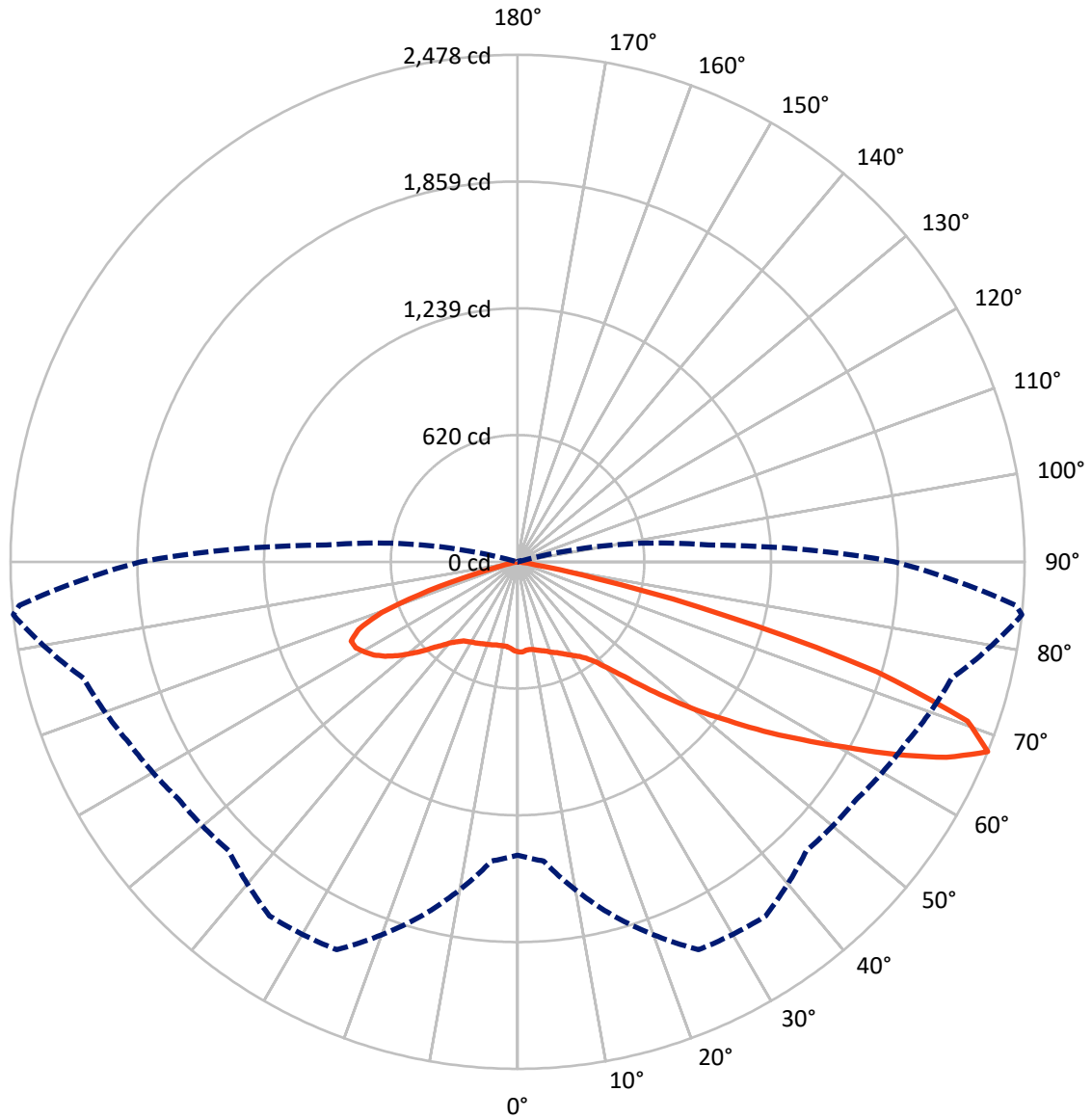
× Max cd
 - - - 1/2 Max cd



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 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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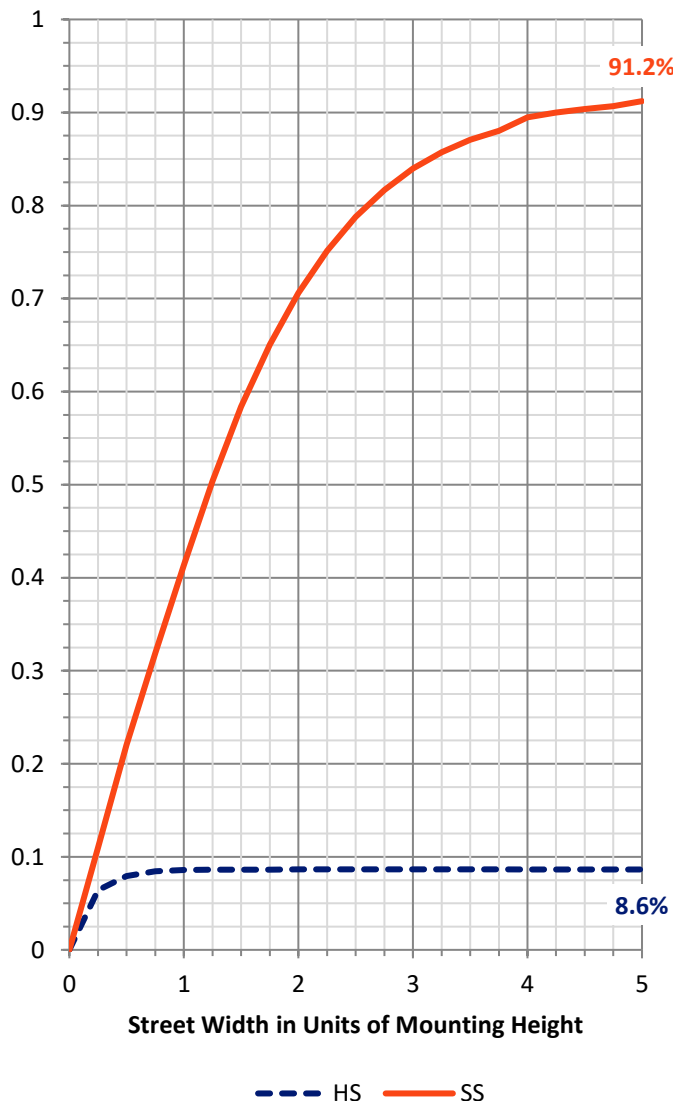
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 307.5 | 0.0 | 307.5 |
| | % Fixture | 8.7 | 0.0 | 8.7 |
| Street Side | Lumens | 3224.5 | 0.0 | 3224.5 |
| | % Fixture | 91.3 | 0.0 | 91.3 |
| Total | Lumens | 3532.0 | 0.0 | 3532.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 39.4 | 1.1 |
| 10°-20° | 103.2 | 2.9 |
| 20°-30° | 165.3 | 4.7 |
| 30°-40° | 237.9 | 6.7 |
| 40°-50° | 408.3 | 11.6 |
| 50°-60° | 713.3 | 20.2 |
| 60°-70° | 1021.5 | 28.9 |
| 70°-80° | 767.8 | 21.7 |
| 80°-90° | 75.4 | 2.1 |
| 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° | 3532.0 | 100.0 |
| 0°-180° | 3532.0 | 100.0 |

Coefficient of Utilization

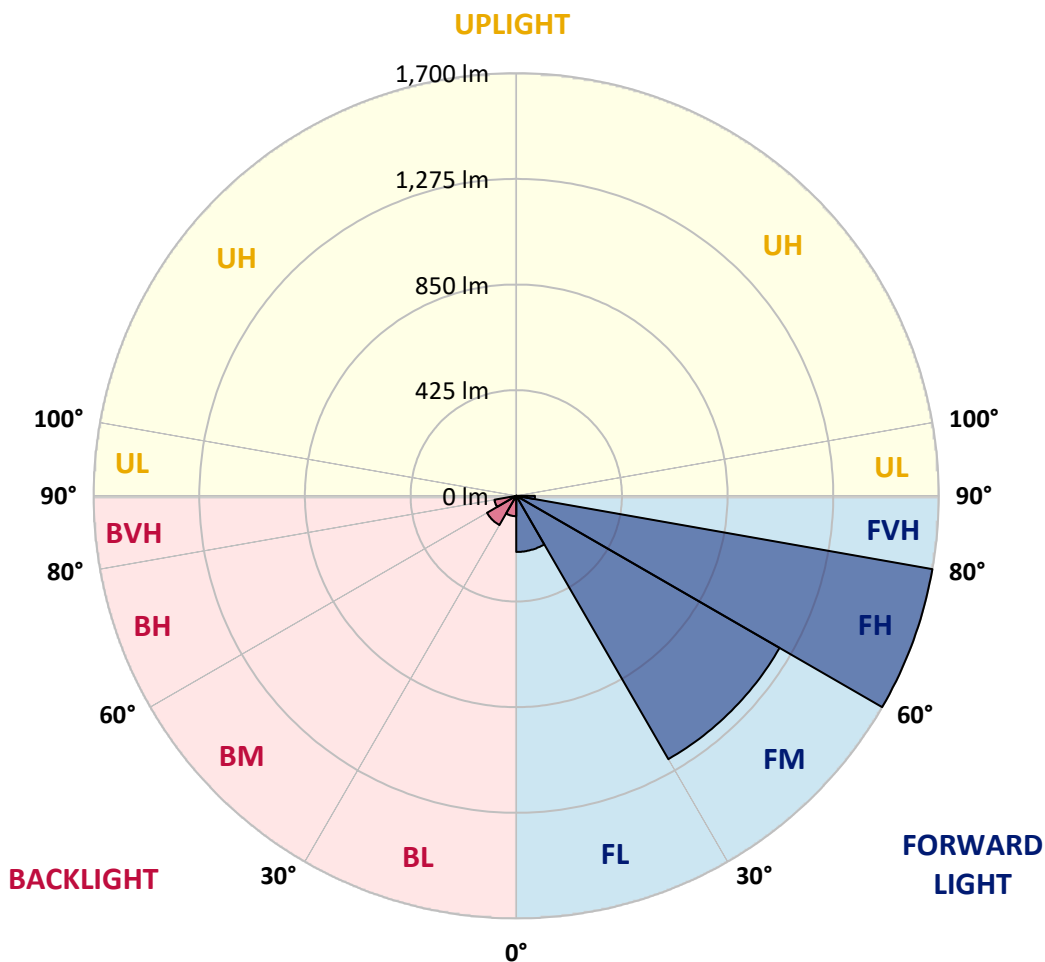


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 225.8 | 6.4 | | | |
| FM (30°-60°) | 1223.5 | 34.6 | | | |
| FH (60°-80°) | 1700.1 | 48.1 | | | G1/1800 |
| FVH (80°-90°) | 75.1 | 2.1 | | | G1/100 |
| BL (0°-30°) | 82.1 | 2.3 | B0/110 | | |
| BM (30°-60°) | 136.0 | 3.9 | B0/220 | | |
| BH (60°-80°) | 89.2 | 2.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 |
| 2.5° | 465.1 | 467.5 | 468.7 | 462.7 | 462.7 | 457.9 | 450.8 | 448.4 | 444.8 | 441.2 | 440.0 |
| 5° | 488.9 | 492.5 | 491.3 | 484.2 | 480.6 | 471.1 | 461.5 | 452.0 | 442.4 | 434.1 | 434.1 |
| 7.5° | 516.4 | 517.6 | 514.0 | 502.1 | 494.9 | 481.8 | 467.5 | 456.7 | 444.8 | 432.9 | 430.5 |
| 10° | 540.2 | 539.0 | 534.3 | 522.3 | 509.2 | 492.5 | 477.0 | 465.1 | 450.8 | 436.5 | 435.3 |
| 12.5° | 556.9 | 558.1 | 552.1 | 535.4 | 522.3 | 503.2 | 487.7 | 475.8 | 459.1 | 443.6 | 440.0 |
| 15° | 571.2 | 574.8 | 567.6 | 551.0 | 531.9 | 515.2 | 503.2 | 487.7 | 468.7 | 450.8 | 448.4 |
| 17.5° | 584.3 | 585.5 | 579.6 | 560.5 | 542.6 | 528.3 | 515.2 | 500.9 | 481.8 | 459.1 | 456.7 |
| 20° | 591.5 | 595.1 | 591.5 | 567.6 | 551.0 | 540.2 | 529.5 | 515.2 | 493.7 | 472.2 | 469.9 |
| 22.5° | 596.3 | 599.8 | 598.7 | 572.4 | 558.1 | 549.8 | 540.2 | 527.1 | 506.8 | 481.8 | 479.4 |
| 25° | 598.7 | 601.0 | 603.4 | 577.2 | 565.3 | 561.7 | 553.3 | 541.4 | 522.3 | 496.1 | 493.7 |
| 27.5° | 602.2 | 604.6 | 607.0 | 583.1 | 578.4 | 574.8 | 572.4 | 562.9 | 540.2 | 512.8 | 509.2 |
| 30° | 608.2 | 611.8 | 614.2 | 593.9 | 593.9 | 597.5 | 597.5 | 584.3 | 559.3 | 530.7 | 528.3 |
| 32.5° | 615.3 | 616.5 | 621.3 | 604.6 | 610.6 | 618.9 | 616.5 | 603.4 | 577.2 | 551.0 | 547.4 |
| 35° | 634.4 | 634.4 | 642.8 | 621.3 | 628.5 | 635.6 | 638.0 | 628.5 | 604.6 | 578.4 | 577.2 |
| 37.5° | 680.9 | 680.9 | 688.1 | 653.5 | 652.3 | 659.5 | 667.8 | 667.8 | 644.0 | 620.1 | 617.7 |
| 40° | 785.9 | 785.9 | 785.9 | 706.0 | 692.9 | 701.2 | 714.3 | 721.5 | 701.2 | 684.5 | 684.5 |
| 42.5° | 961.2 | 962.4 | 944.5 | 802.6 | 746.5 | 760.8 | 775.1 | 790.6 | 779.9 | 768.0 | 765.6 |
| 45° | 1142.4 | 1136.5 | 1134.1 | 944.5 | 841.9 | 834.8 | 852.7 | 878.9 | 882.5 | 875.3 | 880.1 |
| 47.5° | 1266.5 | 1272.4 | 1276.0 | 1121.0 | 975.5 | 926.6 | 943.3 | 980.3 | 1001.7 | 1000.5 | 1007.7 |
| 50° | 1386.9 | 1390.5 | 1394.1 | 1315.4 | 1152.0 | 1042.3 | 1053.0 | 1103.1 | 1132.9 | 1142.4 | 1147.2 |
| 52.5° | 1491.9 | 1482.3 | 1497.8 | 1487.1 | 1339.2 | 1174.6 | 1174.6 | 1231.9 | 1285.6 | 1289.1 | 1287.9 |
| 55° | 1522.9 | 1528.8 | 1575.3 | 1607.5 | 1531.2 | 1336.8 | 1313.0 | 1373.8 | 1431.0 | 1460.9 | 1460.9 |
| 57.5° | 1592.0 | 1598.0 | 1654.0 | 1726.8 | 1670.7 | 1496.6 | 1460.9 | 1520.5 | 1582.5 | 1639.7 | 1648.1 |
| 60° | 1682.7 | 1683.9 | 1743.5 | 1854.4 | 1776.9 | 1640.9 | 1611.1 | 1679.1 | 1741.1 | 1838.9 | 1866.3 |
| 62.5° | 1731.6 | 1736.3 | 1818.6 | 1964.1 | 1910.4 | 1767.3 | 1760.2 | 1822.2 | 1902.1 | 2073.8 | 2098.9 |
| 65° | 1656.4 | 1687.4 | 1866.3 | 2029.7 | 2019.0 | 1885.4 | 1910.4 | 1960.5 | 2052.3 | 2304.0 | 2327.8 |
| 67.5° | 1433.4 | 1468.0 | 1787.6 | 2091.7 | 2113.2 | 1996.3 | 2022.5 | 2095.3 | 2196.6 | 2478.1 | 2444.7 |
| 70° | 1320.1 | 1348.8 | 1596.8 | 2126.3 | 2191.9 | 2120.3 | 2132.2 | 2200.2 | 2230.0 | 2332.6 | 2296.8 |
| 72.5° | 1000.5 | 1030.3 | 1351.1 | 2008.2 | 2259.8 | 2250.3 | 2220.5 | 2164.4 | 1988.0 | 1835.3 | 1748.3 |
| 75° | 442.4 | 477.0 | 899.2 | 1569.4 | 2091.7 | 2324.2 | 2166.8 | 1853.2 | 1427.5 | 1042.3 | 966.0 |
| 77.5° | 195.6 | 215.8 | 348.2 | 871.7 | 1571.8 | 2011.8 | 1713.7 | 1235.5 | 716.7 | 387.6 | 360.1 |
| 80° | 63.2 | 65.6 | 109.7 | 305.3 | 803.8 | 1332.1 | 1049.4 | 593.9 | 220.6 | 90.6 | 84.7 |
| 82.5° | 25.0 | 27.4 | 52.5 | 128.8 | 332.7 | 529.5 | 515.2 | 214.7 | 64.4 | 23.9 | 23.9 |
| 85° | 7.2 | 8.3 | 26.2 | 68.0 | 118.1 | 149.1 | 182.5 | 71.6 | 34.6 | 7.2 | 7.2 |
| 87.5° | 2.4 | 2.4 | 9.5 | 21.5 | 22.7 | 15.5 | 34.6 | 27.4 | 21.5 | 2.4 | 2.4 |
| 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° | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 | 440.0 |
| 2.5° | 437.7 | 435.3 | 429.3 | 424.5 | 422.2 | 418.6 | 413.8 | 411.4 | 411.4 | 410.2 | 406.7 |
| 5° | 429.3 | 425.7 | 415.0 | 407.8 | 401.9 | 388.8 | 379.2 | 367.3 | 355.4 | 351.8 | 355.4 |
| 7.5° | 425.7 | 418.6 | 404.3 | 390.0 | 364.9 | 330.3 | 307.7 | 282.6 | 274.3 | 263.5 | 264.7 |
| 10° | 426.9 | 418.6 | 398.3 | 366.1 | 317.2 | 265.9 | 230.2 | 196.8 | 180.1 | 171.7 | 172.9 |
| 12.5° | 430.5 | 421.0 | 392.3 | 333.9 | 263.5 | 201.5 | 146.7 | 120.4 | 115.7 | 115.7 | 115.7 |
| 15° | 437.7 | 423.3 | 382.8 | 295.7 | 206.3 | 133.6 | 103.8 | 101.4 | 104.9 | 108.5 | 109.7 |
| 17.5° | 444.8 | 430.5 | 368.5 | 256.4 | 150.3 | 100.2 | 96.6 | 96.6 | 100.2 | 103.8 | 104.9 |
| 20° | 453.2 | 437.7 | 348.2 | 214.7 | 107.3 | 94.2 | 93.0 | 91.8 | 94.2 | 97.8 | 99.0 |
| 22.5° | 466.3 | 444.8 | 324.4 | 165.8 | 93.0 | 90.6 | 88.2 | 87.1 | 88.2 | 91.8 | 93.0 |
| 25° | 478.2 | 454.4 | 299.3 | 122.8 | 87.1 | 84.7 | 83.5 | 82.3 | 82.3 | 84.7 | 85.9 |
| 27.5° | 492.5 | 465.1 | 271.9 | 91.8 | 79.9 | 78.7 | 77.5 | 76.3 | 75.1 | 77.5 | 78.7 |
| 30° | 510.4 | 474.6 | 242.1 | 77.5 | 72.7 | 71.6 | 70.4 | 69.2 | 68.0 | 69.2 | 70.4 |
| 32.5° | 533.1 | 487.7 | 207.5 | 70.4 | 66.8 | 63.2 | 62.0 | 62.0 | 60.8 | 60.8 | 62.0 |
| 35° | 562.9 | 502.1 | 170.5 | 65.6 | 60.8 | 57.2 | 53.7 | 52.5 | 52.5 | 52.5 | 53.7 |
| 37.5° | 607.0 | 528.3 | 134.8 | 60.8 | 56.0 | 50.1 | 46.5 | 42.9 | 42.9 | 42.9 | 42.9 |
| 40° | 667.8 | 556.9 | 104.9 | 57.2 | 52.5 | 44.1 | 39.4 | 34.6 | 32.2 | 31.0 | 32.2 |
| 42.5° | 762.0 | 599.8 | 81.1 | 52.5 | 50.1 | 39.4 | 32.2 | 26.2 | 21.5 | 20.3 | 21.5 |
| 45° | 865.8 | 646.4 | 64.4 | 48.9 | 45.3 | 33.4 | 25.0 | 17.9 | 13.1 | 11.9 | 13.1 |
| 47.5° | 997.0 | 704.8 | 54.9 | 44.1 | 39.4 | 27.4 | 17.9 | 9.5 | 6.0 | 7.2 | 7.2 |
| 50° | 1123.4 | 762.0 | 50.1 | 40.5 | 34.6 | 22.7 | 10.7 | 4.8 | 2.4 | 3.6 | 3.6 |
| 52.5° | 1262.9 | 822.8 | 46.5 | 35.8 | 29.8 | 16.7 | 6.0 | 1.2 | 0.0 | 1.2 | 1.2 |
| 55° | 1403.6 | 877.7 | 42.9 | 32.2 | 23.9 | 11.9 | 2.4 | 0.0 | 0.0 | 0.0 | 1.2 |
| 57.5° | 1556.3 | 924.2 | 39.4 | 27.4 | 17.9 | 7.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1683.9 | 960.0 | 35.8 | 23.9 | 11.9 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1800.7 | 992.2 | 27.4 | 17.9 | 7.2 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1878.2 | 999.3 | 19.1 | 11.9 | 4.8 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1843.7 | 937.3 | 11.9 | 8.3 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1620.7 | 787.1 | 8.3 | 4.8 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1134.1 | 508.0 | 7.2 | 3.6 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 598.7 | 183.7 | 4.8 | 2.4 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 212.3 | 40.5 | 2.4 | 1.2 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 46.5 | 8.3 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 13.1 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)