

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: P594611

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594611
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: ISS-PA1C-722-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE 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: 3797 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G2

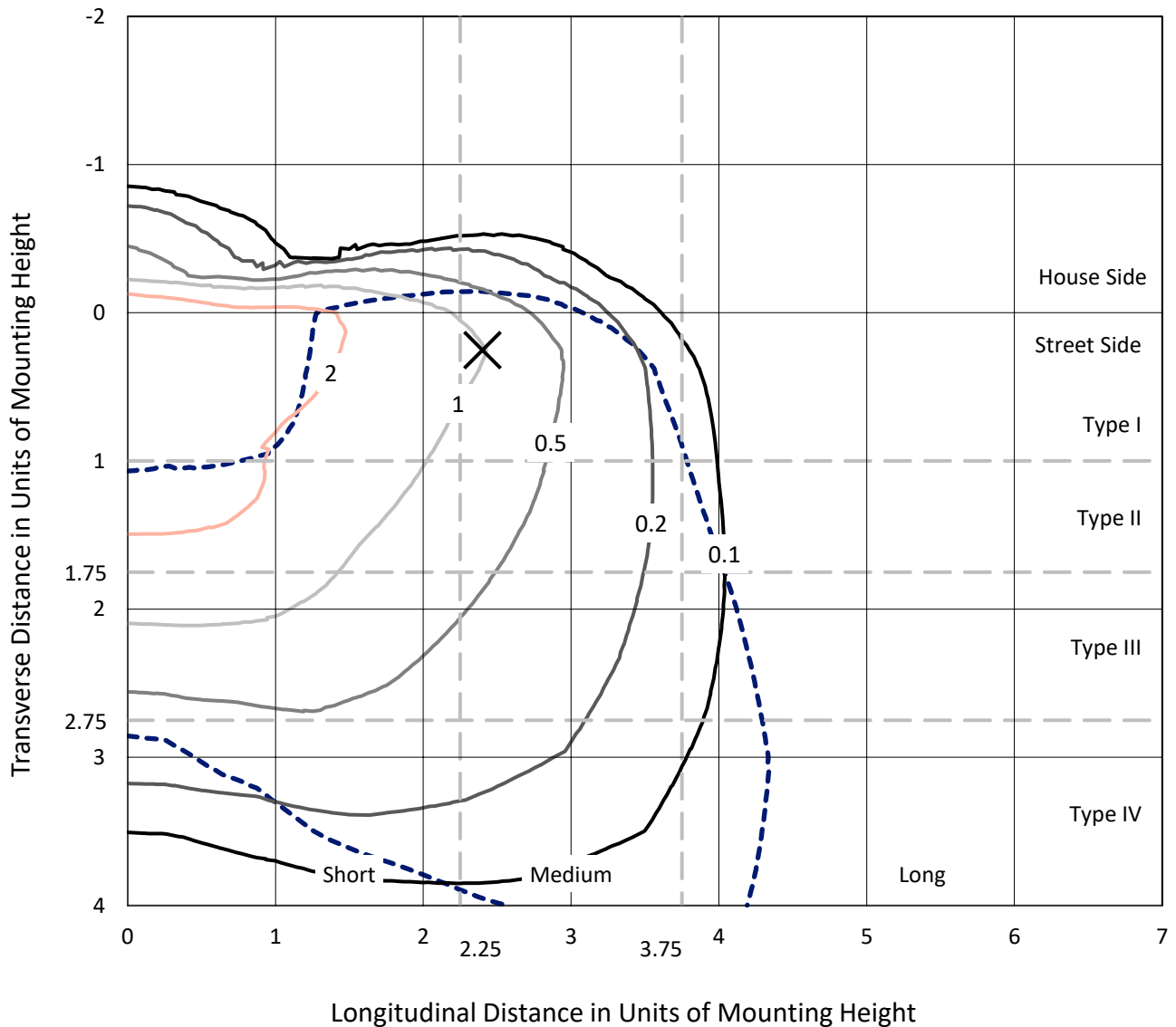
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

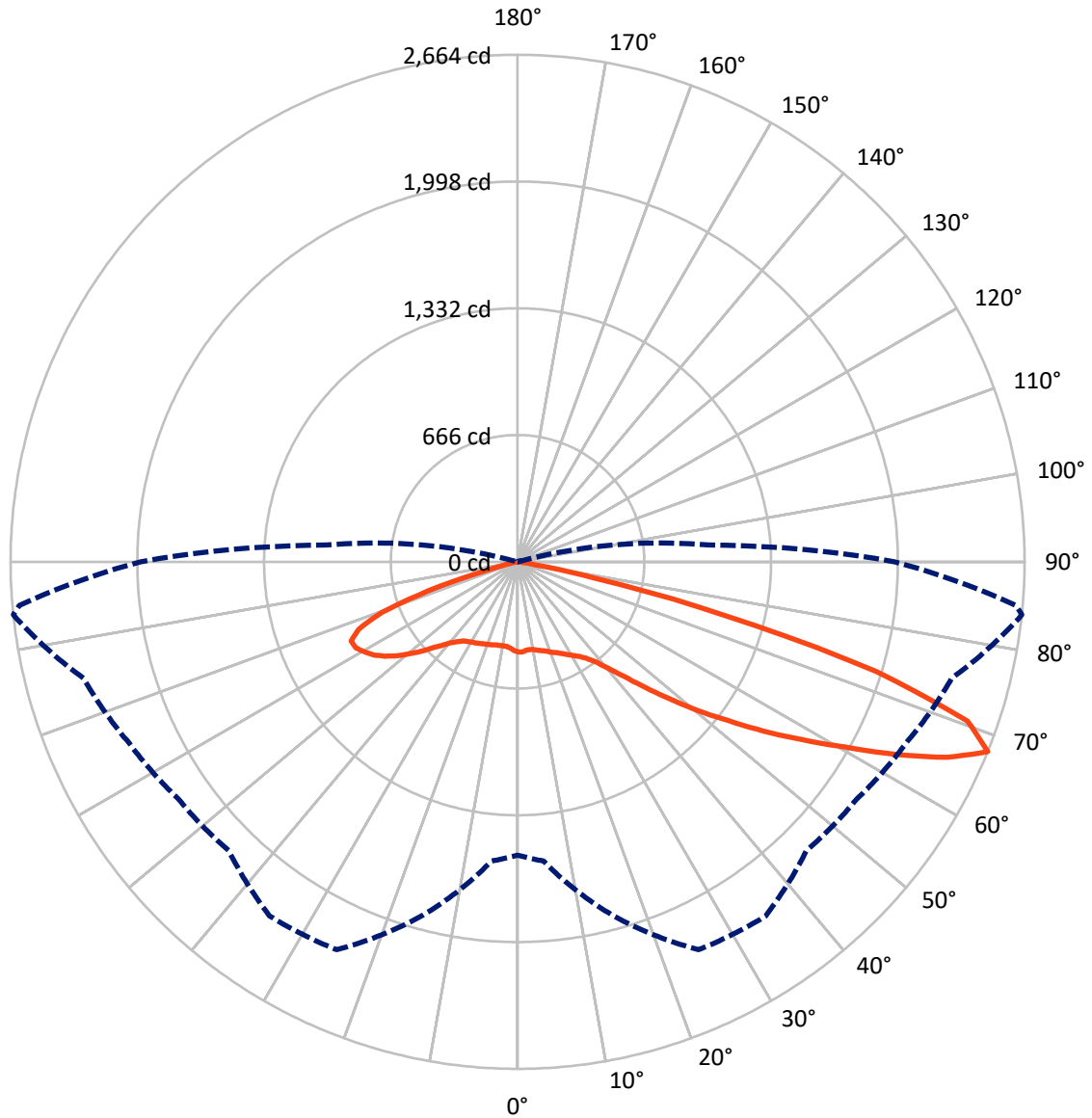
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.9 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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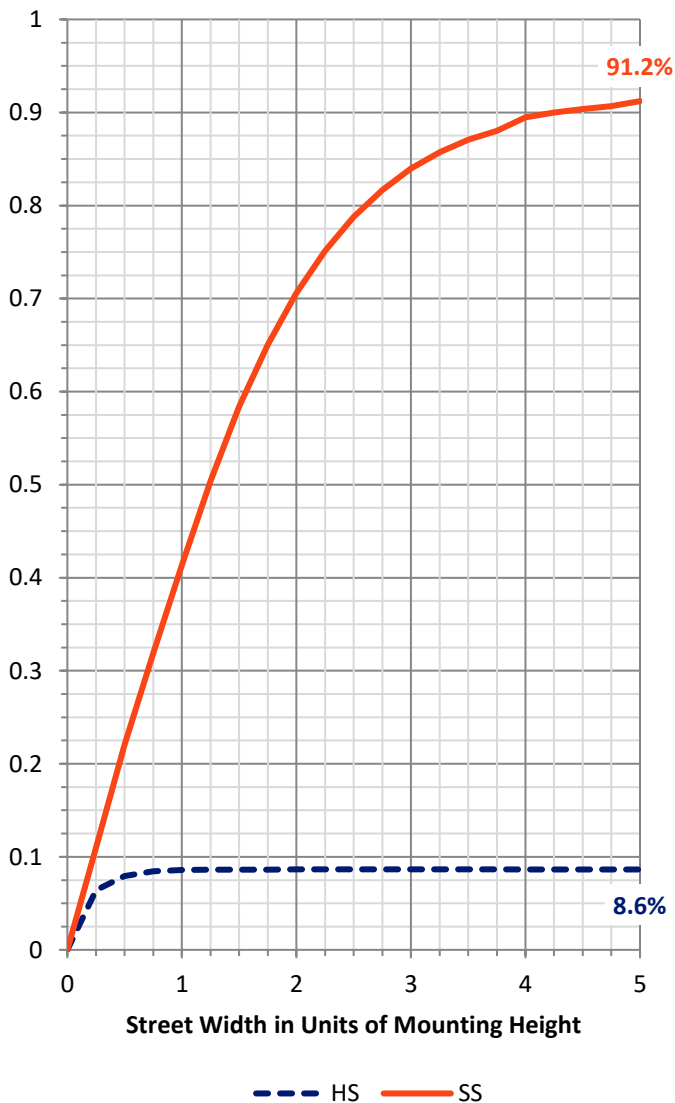
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 330.6 | 0.0 | 330.6 |
| | % Fixture | 8.7 | 0.0 | 8.7 |
| Street Side | Lumens | 3466.4 | 0.0 | 3466.4 |
| | % Fixture | 91.3 | 0.0 | 91.3 |
| Total | Lumens | 3797.0 | 0.0 | 3797.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.4 | 1.1 |
| 10°-20° | 110.9 | 2.9 |
| 20°-30° | 177.7 | 4.7 |
| 30°-40° | 255.7 | 6.7 |
| 40°-50° | 438.9 | 11.6 |
| 50°-60° | 766.8 | 20.2 |
| 60°-70° | 1098.1 | 28.9 |
| 70°-80° | 825.4 | 21.7 |
| 80°-90° | 81.0 | 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° | 3797.0 | 100.0 |
| 0°-180° | 3797.0 | 100.0 |

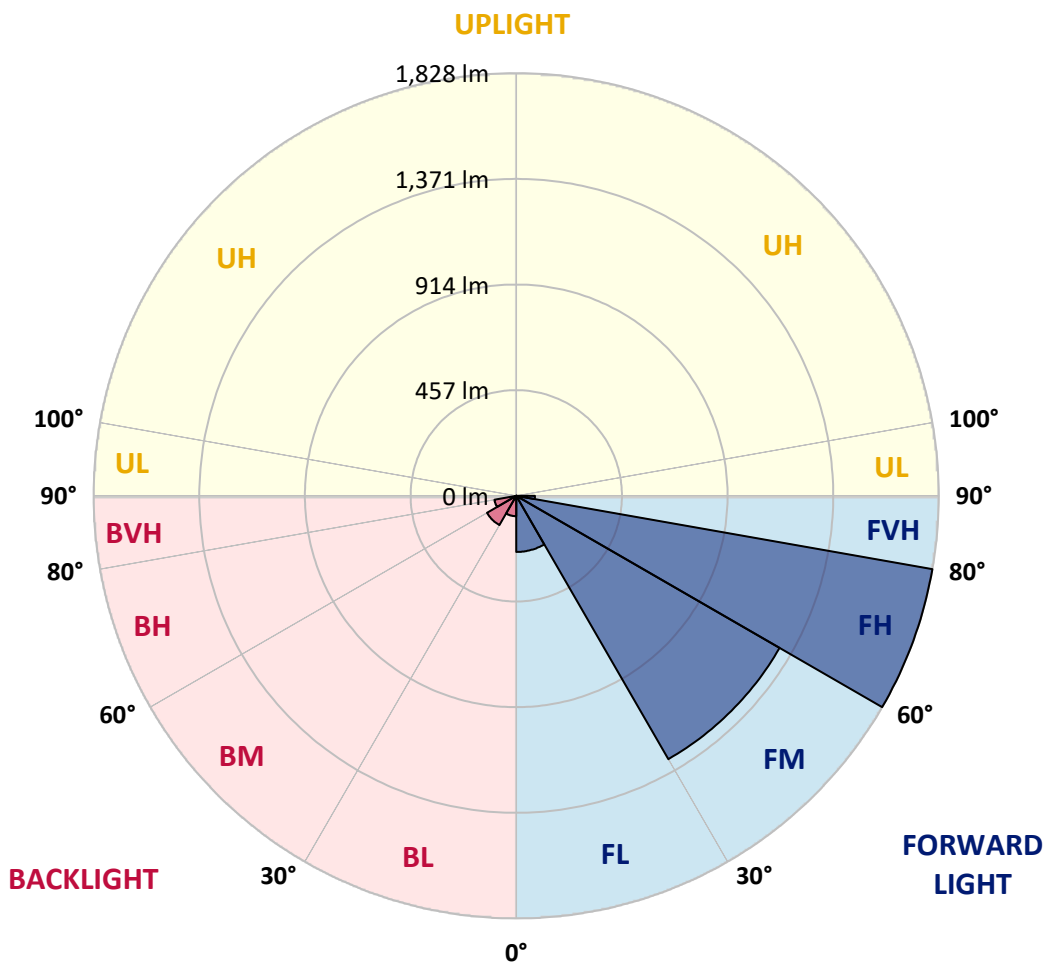


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 242.7 | 6.4 | | | |
| FM (30°-60°) | 1315.2 | 34.6 | | | |
| FH (60°-80°) | 1827.7 | 48.1 | | | G2/5000 |
| FVH (80°-90°) | 80.8 | 2.1 | | | G1/100 |
| BL (0°-30°) | 88.3 | 2.3 | B0/110 | | |
| BM (30°-60°) | 146.2 | 3.9 | B0/220 | | |
| BH (60°-80°) | 95.8 | 2.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 |
| 2.5° | 500.0 | 502.5 | 503.8 | 497.4 | 497.4 | 492.3 | 484.6 | 482.0 | 478.2 | 474.3 | 473.1 |
| 5° | 525.6 | 529.5 | 528.2 | 520.5 | 516.6 | 506.4 | 496.1 | 485.9 | 475.6 | 466.7 | 466.7 |
| 7.5° | 555.1 | 556.4 | 552.5 | 539.7 | 532.0 | 517.9 | 502.5 | 491.0 | 478.2 | 465.4 | 462.8 |
| 10° | 580.7 | 579.5 | 574.3 | 561.5 | 547.4 | 529.5 | 512.8 | 500.0 | 484.6 | 469.2 | 467.9 |
| 12.5° | 598.7 | 600.0 | 593.6 | 575.6 | 561.5 | 541.0 | 524.3 | 511.5 | 493.6 | 476.9 | 473.1 |
| 15° | 614.1 | 617.9 | 610.2 | 592.3 | 571.8 | 553.8 | 541.0 | 524.3 | 503.8 | 484.6 | 482.0 |
| 17.5° | 628.2 | 629.5 | 623.1 | 602.5 | 583.3 | 567.9 | 553.8 | 538.4 | 517.9 | 493.6 | 491.0 |
| 20° | 635.9 | 639.7 | 635.9 | 610.2 | 592.3 | 580.7 | 569.2 | 553.8 | 530.8 | 507.7 | 505.1 |
| 22.5° | 641.0 | 644.8 | 643.6 | 615.4 | 600.0 | 591.0 | 580.7 | 566.6 | 544.9 | 517.9 | 515.4 |
| 25° | 643.6 | 646.1 | 648.7 | 620.5 | 607.7 | 603.8 | 594.9 | 582.0 | 561.5 | 533.3 | 530.8 |
| 27.5° | 647.4 | 650.0 | 652.5 | 626.9 | 621.8 | 617.9 | 615.4 | 605.1 | 580.7 | 551.3 | 547.4 |
| 30° | 653.8 | 657.7 | 660.2 | 638.4 | 638.4 | 642.3 | 642.3 | 628.2 | 601.3 | 570.5 | 567.9 |
| 32.5° | 661.5 | 662.8 | 667.9 | 650.0 | 656.4 | 665.4 | 662.8 | 648.7 | 620.5 | 592.3 | 588.4 |
| 35° | 682.0 | 682.0 | 691.0 | 667.9 | 675.6 | 683.3 | 685.9 | 675.6 | 650.0 | 621.8 | 620.5 |
| 37.5° | 732.0 | 732.0 | 739.7 | 702.5 | 701.3 | 708.9 | 717.9 | 717.9 | 692.3 | 666.6 | 664.1 |
| 40° | 844.8 | 844.8 | 844.8 | 758.9 | 744.8 | 753.8 | 767.9 | 775.6 | 753.8 | 735.9 | 735.9 |
| 42.5° | 1033.3 | 1034.6 | 1015.3 | 862.8 | 802.5 | 817.9 | 833.3 | 850.0 | 838.4 | 825.6 | 823.0 |
| 45° | 1228.2 | 1221.8 | 1219.2 | 1015.3 | 905.1 | 897.4 | 916.6 | 944.8 | 948.7 | 941.0 | 946.1 |
| 47.5° | 1361.5 | 1367.9 | 1371.7 | 1205.1 | 1048.7 | 996.1 | 1014.1 | 1053.8 | 1076.9 | 1075.6 | 1083.3 |
| 50° | 1491.0 | 1494.8 | 1498.7 | 1414.1 | 1238.4 | 1120.5 | 1132.0 | 1185.9 | 1217.9 | 1228.2 | 1233.3 |
| 52.5° | 1603.8 | 1593.5 | 1610.2 | 1598.7 | 1439.7 | 1262.8 | 1262.8 | 1324.3 | 1382.0 | 1385.8 | 1384.6 |
| 55° | 1637.1 | 1643.5 | 1693.5 | 1728.1 | 1646.1 | 1437.1 | 1411.5 | 1476.9 | 1538.4 | 1570.5 | 1570.5 |
| 57.5° | 1711.5 | 1717.9 | 1778.1 | 1856.3 | 1796.1 | 1608.9 | 1570.5 | 1634.6 | 1701.2 | 1762.8 | 1771.7 |
| 60° | 1808.9 | 1810.2 | 1874.3 | 1993.5 | 1910.2 | 1764.0 | 1732.0 | 1805.1 | 1871.7 | 1976.9 | 2006.3 |
| 62.5° | 1861.5 | 1866.6 | 1955.1 | 2111.5 | 2053.8 | 1899.9 | 1892.2 | 1958.9 | 2044.8 | 2229.4 | 2256.3 |
| 65° | 1780.7 | 1814.0 | 2006.3 | 2182.0 | 2170.4 | 2026.9 | 2053.8 | 2107.6 | 2206.3 | 2476.8 | 2502.5 |
| 67.5° | 1541.0 | 1578.2 | 1921.7 | 2248.6 | 2271.7 | 2146.1 | 2174.3 | 2252.5 | 2361.5 | 2664.0 | 2628.1 |
| 70° | 1419.2 | 1449.9 | 1716.6 | 2285.8 | 2356.3 | 2279.4 | 2292.2 | 2365.3 | 2397.4 | 2507.6 | 2469.1 |
| 72.5° | 1075.6 | 1107.7 | 1452.5 | 2158.9 | 2429.4 | 2419.1 | 2387.1 | 2326.8 | 2137.1 | 1973.0 | 1879.4 |
| 75° | 475.6 | 512.8 | 966.6 | 1687.1 | 2248.6 | 2498.6 | 2329.4 | 1992.2 | 1534.6 | 1120.5 | 1038.4 |
| 77.5° | 210.2 | 232.0 | 374.3 | 937.1 | 1689.7 | 2162.7 | 1842.2 | 1328.2 | 770.5 | 416.7 | 387.2 |
| 80° | 67.9 | 70.5 | 117.9 | 328.2 | 864.1 | 1432.0 | 1128.2 | 638.4 | 237.2 | 97.4 | 91.0 |
| 82.5° | 26.9 | 29.5 | 56.4 | 138.5 | 357.7 | 569.2 | 553.8 | 230.8 | 69.2 | 25.6 | 25.6 |
| 85° | 7.7 | 9.0 | 28.2 | 73.1 | 126.9 | 160.3 | 196.1 | 76.9 | 37.2 | 7.7 | 7.7 |
| 87.5° | 2.6 | 2.6 | 10.3 | 23.1 | 24.4 | 16.7 | 37.2 | 29.5 | 23.1 | 2.6 | 2.6 |
| 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° | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 | 473.1 |
| 2.5° | 470.5 | 467.9 | 461.5 | 456.4 | 453.8 | 450.0 | 444.9 | 442.3 | 442.3 | 441.0 | 437.2 |
| 5° | 461.5 | 457.7 | 446.1 | 438.4 | 432.0 | 417.9 | 407.7 | 394.9 | 382.0 | 378.2 | 382.0 |
| 7.5° | 457.7 | 450.0 | 434.6 | 419.2 | 392.3 | 355.1 | 330.8 | 303.8 | 294.9 | 283.3 | 284.6 |
| 10° | 459.0 | 450.0 | 428.2 | 393.6 | 341.0 | 285.9 | 247.4 | 211.5 | 193.6 | 184.6 | 185.9 |
| 12.5° | 462.8 | 452.5 | 421.8 | 359.0 | 283.3 | 216.7 | 157.7 | 129.5 | 124.4 | 124.4 | 124.4 |
| 15° | 470.5 | 455.1 | 411.5 | 317.9 | 221.8 | 143.6 | 111.5 | 109.0 | 112.8 | 116.7 | 117.9 |
| 17.5° | 478.2 | 462.8 | 396.1 | 275.6 | 161.5 | 107.7 | 103.8 | 103.8 | 107.7 | 111.5 | 112.8 |
| 20° | 487.2 | 470.5 | 374.3 | 230.8 | 115.4 | 101.3 | 100.0 | 98.7 | 101.3 | 105.1 | 106.4 |
| 22.5° | 501.3 | 478.2 | 348.7 | 178.2 | 100.0 | 97.4 | 94.9 | 93.6 | 94.9 | 98.7 | 100.0 |
| 25° | 514.1 | 488.4 | 321.8 | 132.0 | 93.6 | 91.0 | 89.7 | 88.5 | 88.5 | 91.0 | 92.3 |
| 27.5° | 529.5 | 500.0 | 292.3 | 98.7 | 85.9 | 84.6 | 83.3 | 82.0 | 80.8 | 83.3 | 84.6 |
| 30° | 548.7 | 510.2 | 260.2 | 83.3 | 78.2 | 76.9 | 75.6 | 74.4 | 73.1 | 74.4 | 75.6 |
| 32.5° | 573.1 | 524.3 | 223.1 | 75.6 | 71.8 | 67.9 | 66.7 | 66.7 | 65.4 | 65.4 | 66.7 |
| 35° | 605.1 | 539.7 | 183.3 | 70.5 | 65.4 | 61.5 | 57.7 | 56.4 | 56.4 | 56.4 | 57.7 |
| 37.5° | 652.5 | 567.9 | 144.9 | 65.4 | 60.3 | 53.8 | 50.0 | 46.2 | 46.2 | 46.2 | 46.2 |
| 40° | 717.9 | 598.7 | 112.8 | 61.5 | 56.4 | 47.4 | 42.3 | 37.2 | 34.6 | 33.3 | 34.6 |
| 42.5° | 819.2 | 644.8 | 87.2 | 56.4 | 53.8 | 42.3 | 34.6 | 28.2 | 23.1 | 21.8 | 23.1 |
| 45° | 930.7 | 694.8 | 69.2 | 52.6 | 48.7 | 35.9 | 26.9 | 19.2 | 14.1 | 12.8 | 14.1 |
| 47.5° | 1071.8 | 757.7 | 59.0 | 47.4 | 42.3 | 29.5 | 19.2 | 10.3 | 6.4 | 7.7 | 7.7 |
| 50° | 1207.7 | 819.2 | 53.8 | 43.6 | 37.2 | 24.4 | 11.5 | 5.1 | 2.6 | 3.8 | 3.8 |
| 52.5° | 1357.6 | 884.6 | 50.0 | 38.5 | 32.1 | 17.9 | 6.4 | 1.3 | 0.0 | 1.3 | 1.3 |
| 55° | 1508.9 | 943.6 | 46.2 | 34.6 | 25.6 | 12.8 | 2.6 | 0.0 | 0.0 | 0.0 | 1.3 |
| 57.5° | 1673.0 | 993.6 | 42.3 | 29.5 | 19.2 | 7.7 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1810.2 | 1032.0 | 38.5 | 25.6 | 12.8 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1935.8 | 1066.6 | 29.5 | 19.2 | 7.7 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 2019.2 | 1074.3 | 20.5 | 12.8 | 5.1 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1982.0 | 1007.7 | 12.8 | 9.0 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1742.2 | 846.1 | 9.0 | 5.1 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1219.2 | 546.1 | 7.7 | 3.8 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 643.6 | 197.4 | 5.1 | 2.6 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 228.2 | 43.6 | 2.6 | 1.3 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 50.0 | 9.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 14.1 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.3 | 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)