

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: STREETWORKS

Report Number: P597231

Luminaire Tested: **PMM-SA1C-722-U-SL4-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-21)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1C-722-U-SL4-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3813 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

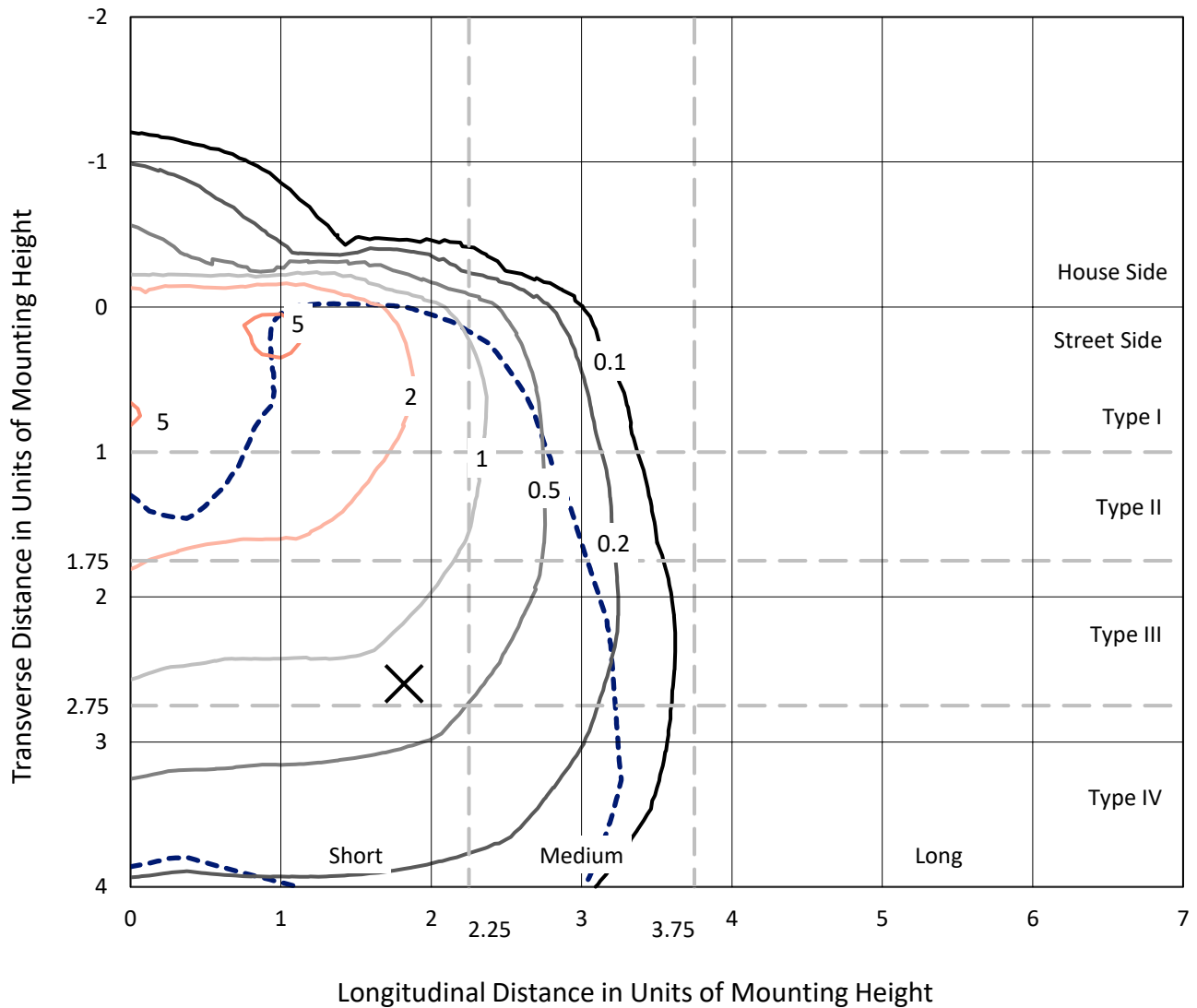
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

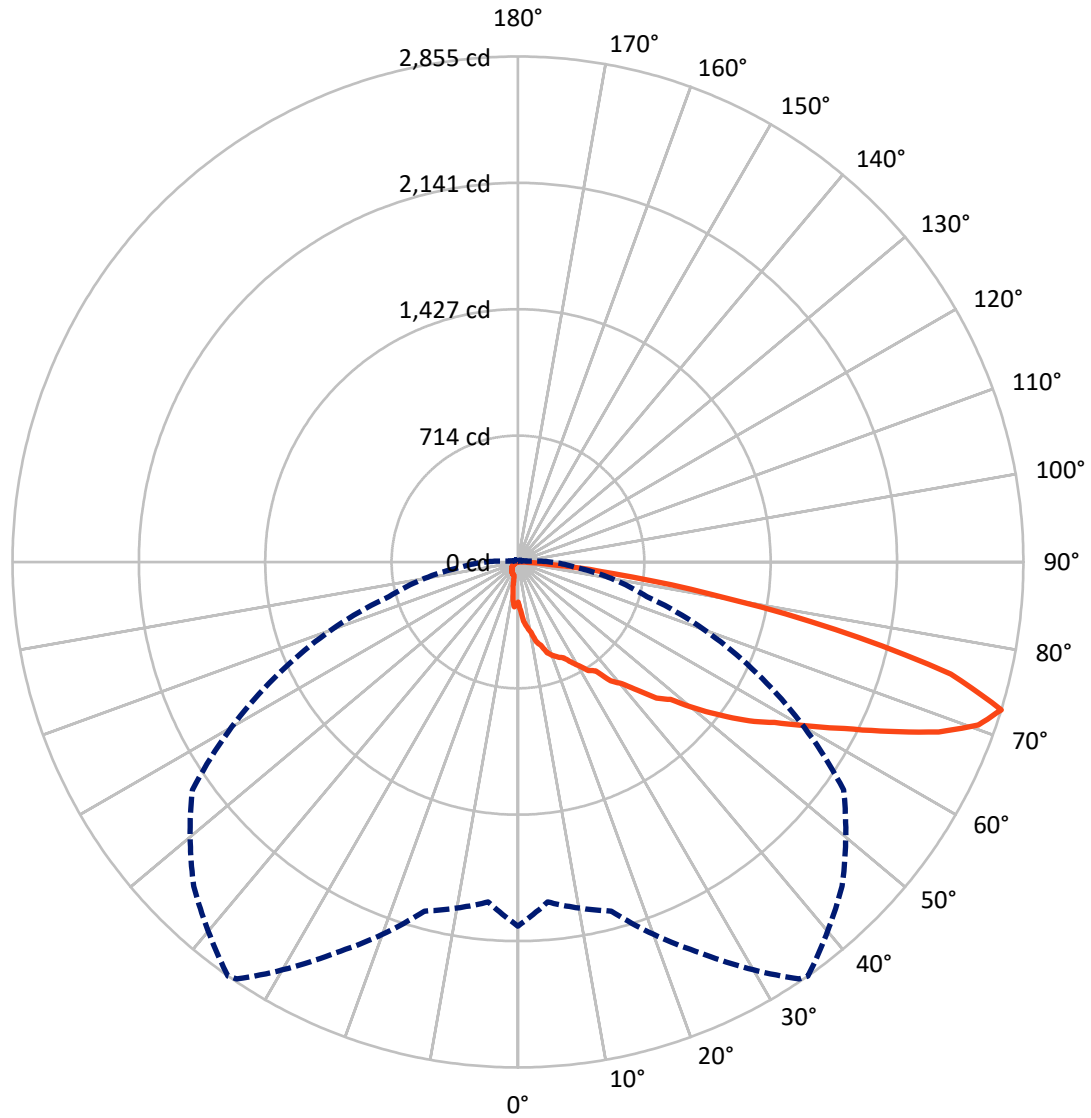
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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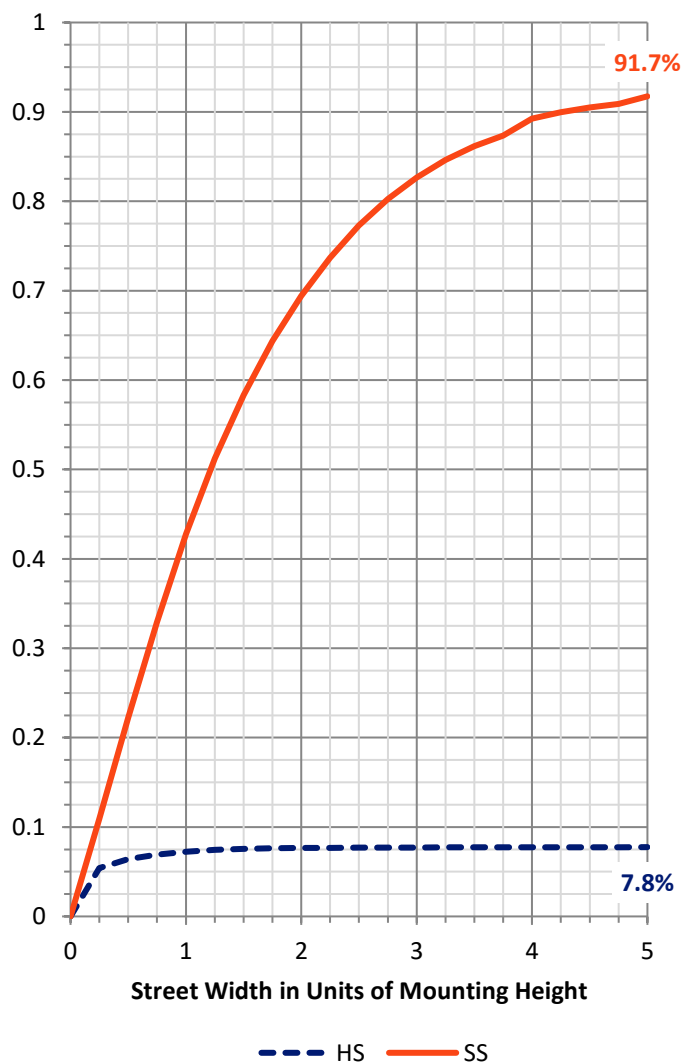
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 297.4 | 0.0 | 297.4 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 3515.6 | 0.0 | 3515.6 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 3813.0 | 0.0 | 3813.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.0 | 0.8 |
| 10°-20° | 97.6 | 2.6 |
| 20°-30° | 177.7 | 4.7 |
| 30°-40° | 306.5 | 8.0 |
| 40°-50° | 544.9 | 14.3 |
| 50°-60° | 813.1 | 21.3 |
| 60°-70° | 1038.8 | 27.2 |
| 70°-80° | 722.7 | 19.0 |
| 80°-90° | 82.7 | 2.2 |
| 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° | 3813.0 | 100.0 |
| 0°-180° | 3813.0 | 100.0 |

Coefficient of Utilization



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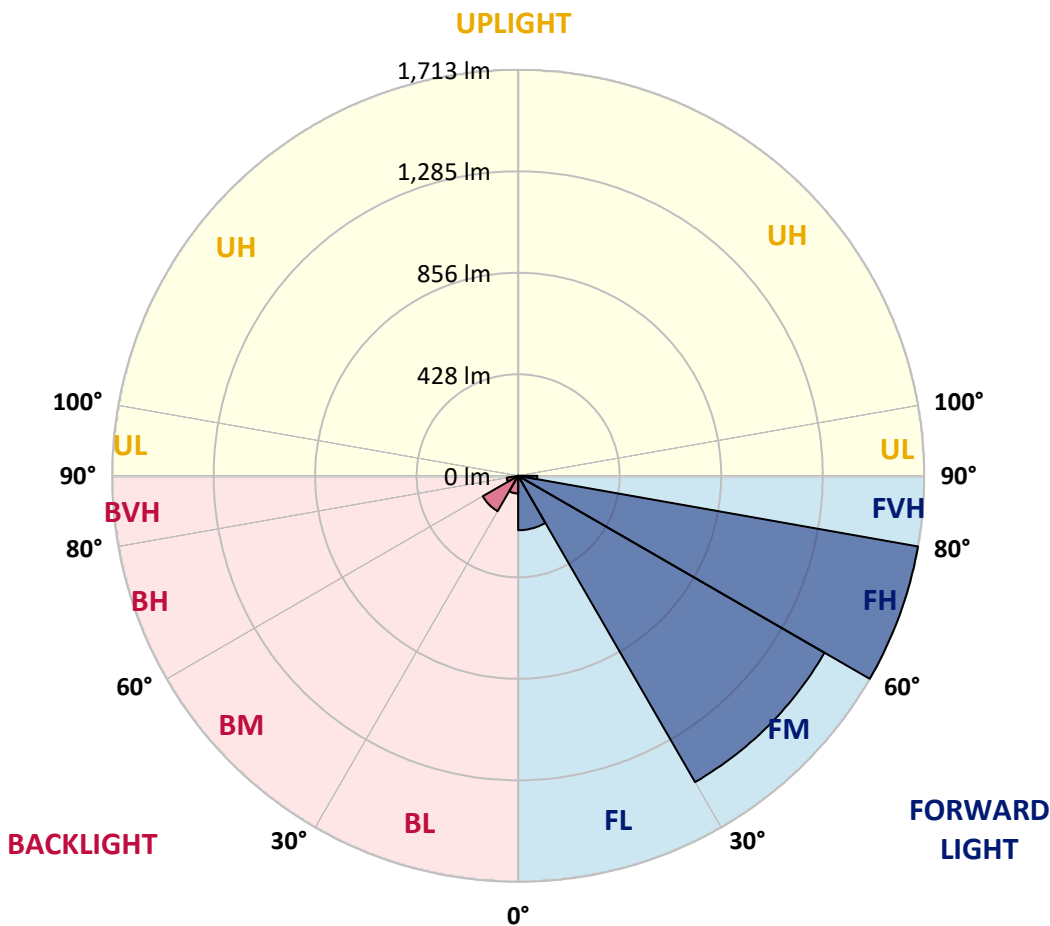
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 229.5 | 6.0 | | | |
| FM (30°-60°) | 1492.0 | 39.1 | | | |
| FH (60°-80°) | 1712.8 | 44.9 | | | G1/1800 |
| FVH (80°-90°) | 81.3 | 2.1 | | | G1/100 |
| BL (0°-30°) | 74.8 | 2.0 | B0/110 | | |
| BM (30°-60°) | 172.5 | 4.5 | B0/220 | | |
| BH (60°-80°) | 48.8 | 1.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.4 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 |
| 2.5° | 289.1 | 277.7 | 259.3 | 260.7 | 268.9 | 270.7 | 273.1 | 266.6 | 260.9 | 250.7 | 270.5 |
| 5° | 370.3 | 354.0 | 343.7 | 340.4 | 335.6 | 336.0 | 324.3 | 328.5 | 327.4 | 334.9 | 343.9 |
| 7.5° | 416.1 | 407.1 | 394.1 | 390.5 | 372.8 | 370.9 | 356.5 | 375.9 | 377.8 | 375.1 | 389.9 |
| 10° | 434.3 | 422.5 | 424.0 | 410.4 | 401.6 | 403.9 | 406.2 | 407.7 | 410.2 | 412.7 | 394.7 |
| 12.5° | 445.1 | 447.2 | 468.1 | 453.9 | 462.7 | 462.7 | 478.2 | 461.8 | 462.3 | 444.3 | 447.4 |
| 15° | 493.4 | 505.1 | 495.7 | 495.5 | 485.9 | 488.4 | 506.4 | 493.4 | 500.1 | 494.7 | 474.0 |
| 17.5° | 554.0 | 556.3 | 538.4 | 530.6 | 539.2 | 539.4 | 531.7 | 531.1 | 507.8 | 547.2 | 522.1 |
| 20° | 573.3 | 586.3 | 561.0 | 530.4 | 566.2 | 564.5 | 563.9 | 554.9 | 516.0 | 570.8 | 550.1 |
| 22.5° | 626.0 | 607.4 | 590.2 | 570.1 | 584.0 | 584.0 | 581.9 | 562.2 | 547.1 | 568.7 | 577.5 |
| 25° | 642.5 | 644.8 | 622.4 | 615.9 | 616.2 | 599.0 | 597.5 | 589.0 | 574.5 | 611.5 | 593.8 |
| 27.5° | 699.2 | 698.3 | 644.4 | 662.6 | 639.4 | 639.6 | 597.3 | 616.2 | 618.7 | 613.6 | 633.3 |
| 30° | 755.0 | 770.6 | 689.3 | 712.3 | 687.9 | 680.7 | 639.3 | 656.1 | 660.5 | 654.6 | 679.5 |
| 32.5° | 826.1 | 848.9 | 770.0 | 747.4 | 710.2 | 730.9 | 702.3 | 662.4 | 684.3 | 737.4 | 751.4 |
| 35° | 901.5 | 912.6 | 828.4 | 796.8 | 754.8 | 754.6 | 753.7 | 756.9 | 781.1 | 840.9 | 852.8 |
| 37.5° | 1036.8 | 1010.5 | 934.4 | 862.0 | 871.4 | 850.5 | 835.9 | 851.2 | 876.4 | 974.9 | 1025.7 |
| 40° | 1112.3 | 1093.3 | 986.2 | 943.3 | 896.7 | 904.3 | 943.8 | 942.1 | 1009.0 | 1112.1 | 1188.2 |
| 42.5° | 1185.7 | 1167.7 | 1062.3 | 1027.6 | 967.8 | 988.7 | 1005.9 | 1027.8 | 1164.8 | 1331.2 | 1373.0 |
| 45° | 1251.1 | 1198.2 | 1123.8 | 1125.2 | 1094.1 | 1096.6 | 1127.1 | 1147.2 | 1345.4 | 1516.0 | 1545.3 |
| 47.5° | 1290.6 | 1247.1 | 1175.8 | 1174.4 | 1172.5 | 1160.8 | 1304.4 | 1322.8 | 1489.3 | 1692.0 | 1694.6 |
| 50° | 1346.2 | 1291.7 | 1229.2 | 1230.4 | 1274.7 | 1299.4 | 1470.8 | 1468.8 | 1628.3 | 1838.8 | 1776.9 |
| 52.5° | 1415.4 | 1348.8 | 1280.0 | 1331.2 | 1399.6 | 1439.9 | 1579.1 | 1635.8 | 1777.6 | 1931.0 | 1809.1 |
| 55° | 1503.9 | 1420.7 | 1354.4 | 1420.0 | 1569.3 | 1584.8 | 1685.1 | 1804.9 | 1940.4 | 2025.1 | 1819.4 |
| 57.5° | 1607.8 | 1508.5 | 1454.8 | 1560.5 | 1709.4 | 1709.8 | 1839.4 | 1985.0 | 2040.2 | 2063.4 | 1807.7 |
| 60° | 1719.7 | 1604.0 | 1549.9 | 1645.0 | 1863.9 | 1879.6 | 2010.9 | 2084.5 | 2141.6 | 2082.8 | 1786.8 |
| 62.5° | 1818.3 | 1690.4 | 1648.4 | 1760.2 | 2033.3 | 2070.5 | 2160.4 | 2149.9 | 2214.9 | 2107.1 | 1733.7 |
| 65° | 1935.6 | 1802.4 | 1774.8 | 1939.8 | 2254.5 | 2305.7 | 2328.3 | 2265.8 | 2239.4 | 2088.3 | 1595.5 |
| 67.5° | 2051.7 | 1927.1 | 1926.4 | 2138.9 | 2544.5 | 2562.2 | 2538.4 | 2429.3 | 2210.8 | 1922.7 | 1342.3 |
| 70° | 2133.6 | 1999.8 | 2050.2 | 2357.1 | 2808.1 | 2758.6 | 2658.6 | 2506.6 | 2004.6 | 1473.6 | 876.9 |
| 72.5° | 2056.7 | 1927.7 | 2041.4 | 2434.7 | 2840.7 | 2854.9 | 2589.0 | 2245.3 | 1489.3 | 753.7 | 317.4 |
| 75° | 1563.0 | 1484.0 | 1772.5 | 2160.0 | 2522.1 | 2525.4 | 2161.0 | 1583.7 | 733.4 | 204.7 | 87.8 |
| 77.5° | 787.2 | 762.1 | 1121.9 | 1533.4 | 1840.1 | 1834.8 | 1484.7 | 848.4 | 236.0 | 68.0 | 44.3 |
| 80° | 398.5 | 378.4 | 477.5 | 827.3 | 1092.8 | 1100.8 | 847.8 | 379.9 | 119.0 | 37.0 | 30.7 |
| 82.5° | 244.8 | 232.3 | 261.3 | 374.3 | 530.4 | 543.2 | 321.6 | 240.6 | 73.8 | 21.9 | 28.0 |
| 85° | 47.3 | 49.8 | 150.1 | 187.5 | 211.8 | 206.8 | 95.3 | 198.0 | 22.2 | 13.0 | 20.3 |
| 87.5° | 0.0 | 0.8 | 34.7 | 61.1 | 61.3 | 54.4 | 21.7 | 43.9 | 3.1 | 3.6 | 2.5 |
| 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° | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 | 227.1 |
| 2.5° | 273.7 | 270.8 | 246.9 | 244.2 | 244.8 | 240.7 | 239.4 | 231.0 | 228.9 | 241.9 | 244.2 |
| 5° | 340.0 | 320.9 | 298.6 | 290.6 | 278.1 | 257.0 | 254.0 | 248.6 | 242.7 | 245.0 | 243.2 |
| 7.5° | 380.7 | 355.2 | 331.4 | 289.1 | 254.0 | 223.3 | 218.3 | 209.1 | 199.9 | 200.1 | 206.1 |
| 10° | 387.2 | 365.7 | 332.9 | 281.4 | 241.3 | 203.0 | 169.6 | 145.5 | 134.6 | 124.8 | 127.7 |
| 12.5° | 425.0 | 405.0 | 344.6 | 279.1 | 222.9 | 163.1 | 119.4 | 95.8 | 85.5 | 82.0 | 81.7 |
| 15° | 455.2 | 439.5 | 364.6 | 272.0 | 182.1 | 114.8 | 85.5 | 78.6 | 76.7 | 79.9 | 79.0 |
| 17.5° | 500.3 | 471.9 | 362.5 | 242.7 | 138.8 | 87.2 | 78.8 | 77.8 | 80.1 | 82.0 | 82.6 |
| 20° | 520.0 | 479.2 | 348.1 | 196.7 | 103.9 | 79.9 | 76.9 | 74.9 | 79.2 | 84.9 | 83.8 |
| 22.5° | 540.0 | 491.7 | 331.2 | 161.0 | 83.6 | 76.5 | 74.8 | 73.2 | 76.5 | 82.0 | 83.4 |
| 25° | 549.0 | 511.6 | 312.4 | 125.7 | 77.6 | 72.5 | 71.3 | 71.9 | 74.6 | 79.5 | 79.0 |
| 27.5° | 594.4 | 513.9 | 276.6 | 99.3 | 75.1 | 69.6 | 69.6 | 70.9 | 70.9 | 77.6 | 77.1 |
| 30° | 622.8 | 552.8 | 247.5 | 83.6 | 72.3 | 65.6 | 67.9 | 68.4 | 67.5 | 74.8 | 75.3 |
| 32.5° | 672.6 | 563.5 | 219.1 | 76.7 | 67.7 | 65.0 | 64.6 | 65.0 | 65.7 | 72.8 | 73.0 |
| 35° | 749.3 | 616.4 | 180.4 | 74.0 | 65.4 | 62.1 | 59.4 | 61.5 | 63.4 | 68.6 | 69.6 |
| 37.5° | 899.2 | 670.7 | 147.0 | 71.9 | 64.2 | 59.4 | 58.5 | 58.1 | 61.5 | 67.5 | 69.4 |
| 40° | 1020.5 | 766.7 | 119.6 | 70.2 | 61.9 | 57.9 | 55.4 | 55.6 | 58.7 | 63.1 | 65.9 |
| 42.5° | 1192.2 | 836.1 | 101.4 | 67.5 | 58.7 | 54.6 | 51.8 | 53.5 | 54.8 | 59.4 | 61.3 |
| 45° | 1335.6 | 890.0 | 89.3 | 65.7 | 55.4 | 51.6 | 49.3 | 51.2 | 49.8 | 52.1 | 54.8 |
| 47.5° | 1449.7 | 936.9 | 80.3 | 61.5 | 53.3 | 49.8 | 47.0 | 46.4 | 44.1 | 44.7 | 47.2 |
| 50° | 1512.3 | 929.1 | 72.8 | 57.3 | 50.6 | 48.1 | 44.1 | 40.1 | 37.0 | 36.8 | 38.3 |
| 52.5° | 1534.6 | 887.1 | 66.7 | 53.7 | 47.3 | 44.3 | 39.7 | 34.1 | 31.1 | 30.1 | 31.4 |
| 55° | 1540.7 | 826.7 | 61.1 | 49.6 | 44.3 | 39.5 | 34.7 | 28.8 | 25.5 | 24.0 | 25.3 |
| 57.5° | 1520.8 | 733.7 | 55.8 | 45.8 | 40.6 | 34.9 | 29.7 | 23.6 | 20.5 | 18.6 | 19.7 |
| 60° | 1471.5 | 615.7 | 51.0 | 41.0 | 36.8 | 30.9 | 25.1 | 19.0 | 15.7 | 14.0 | 14.6 |
| 62.5° | 1362.5 | 482.6 | 45.8 | 36.6 | 32.8 | 27.0 | 21.1 | 15.0 | 11.9 | 10.4 | 10.5 |
| 65° | 1196.5 | 359.8 | 39.9 | 32.4 | 29.1 | 23.4 | 16.9 | 11.5 | 9.0 | 7.7 | 7.5 |
| 67.5° | 953.2 | 243.8 | 33.9 | 28.0 | 25.9 | 19.7 | 13.4 | 9.0 | 7.1 | 6.1 | 5.8 |
| 70° | 560.3 | 122.9 | 28.2 | 24.2 | 22.2 | 16.5 | 10.5 | 7.3 | 6.5 | 5.8 | 5.4 |
| 72.5° | 184.8 | 53.1 | 22.0 | 19.9 | 18.4 | 13.2 | 8.2 | 6.7 | 6.3 | 5.6 | 5.2 |
| 75° | 64.4 | 30.7 | 16.3 | 15.3 | 14.6 | 10.0 | 6.9 | 6.1 | 6.1 | 5.4 | 4.8 |
| 77.5° | 42.2 | 23.8 | 12.1 | 11.1 | 10.9 | 7.3 | 5.9 | 5.8 | 5.4 | 4.4 | 3.6 |
| 80° | 35.1 | 13.4 | 8.4 | 7.9 | 7.7 | 4.6 | 4.8 | 4.2 | 3.3 | 1.9 | 0.8 |
| 82.5° | 32.4 | 8.1 | 4.4 | 4.8 | 4.4 | 1.7 | 2.7 | 2.3 | 1.7 | 0.8 | 0.0 |
| 85° | 19.0 | 3.6 | 2.5 | 2.5 | 1.9 | 0.4 | 1.3 | 1.3 | 0.8 | 0.2 | 0.0 |
| 87.5° | 2.1 | 1.7 | 1.3 | 1.3 | 1.0 | 0.0 | 0.6 | 0.4 | 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)