

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: P367465

Luminaire Tested: **PMM-SA2C-750-U-SL4-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-21)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2C-750-U-SL4-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) 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: 10202 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

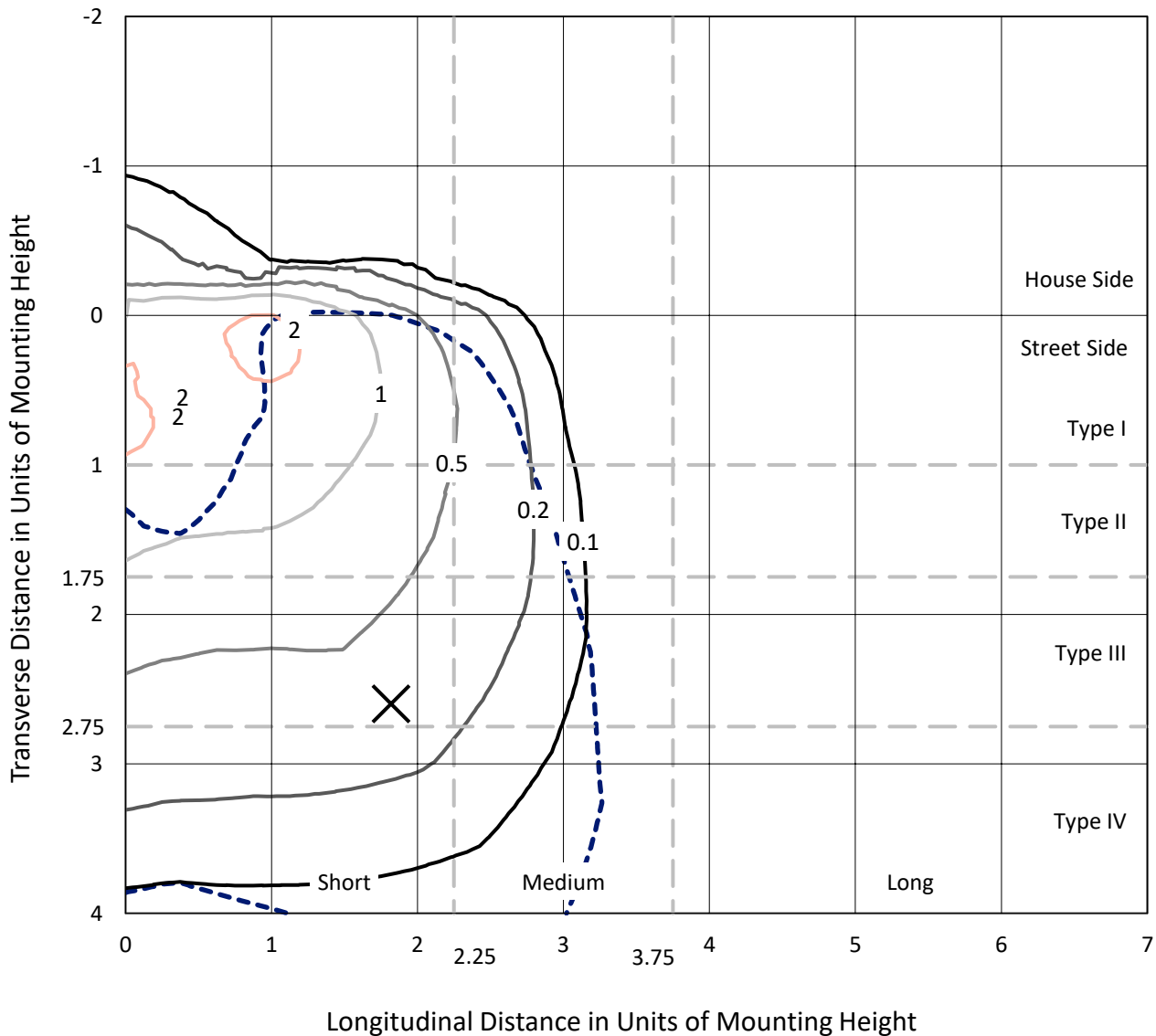
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

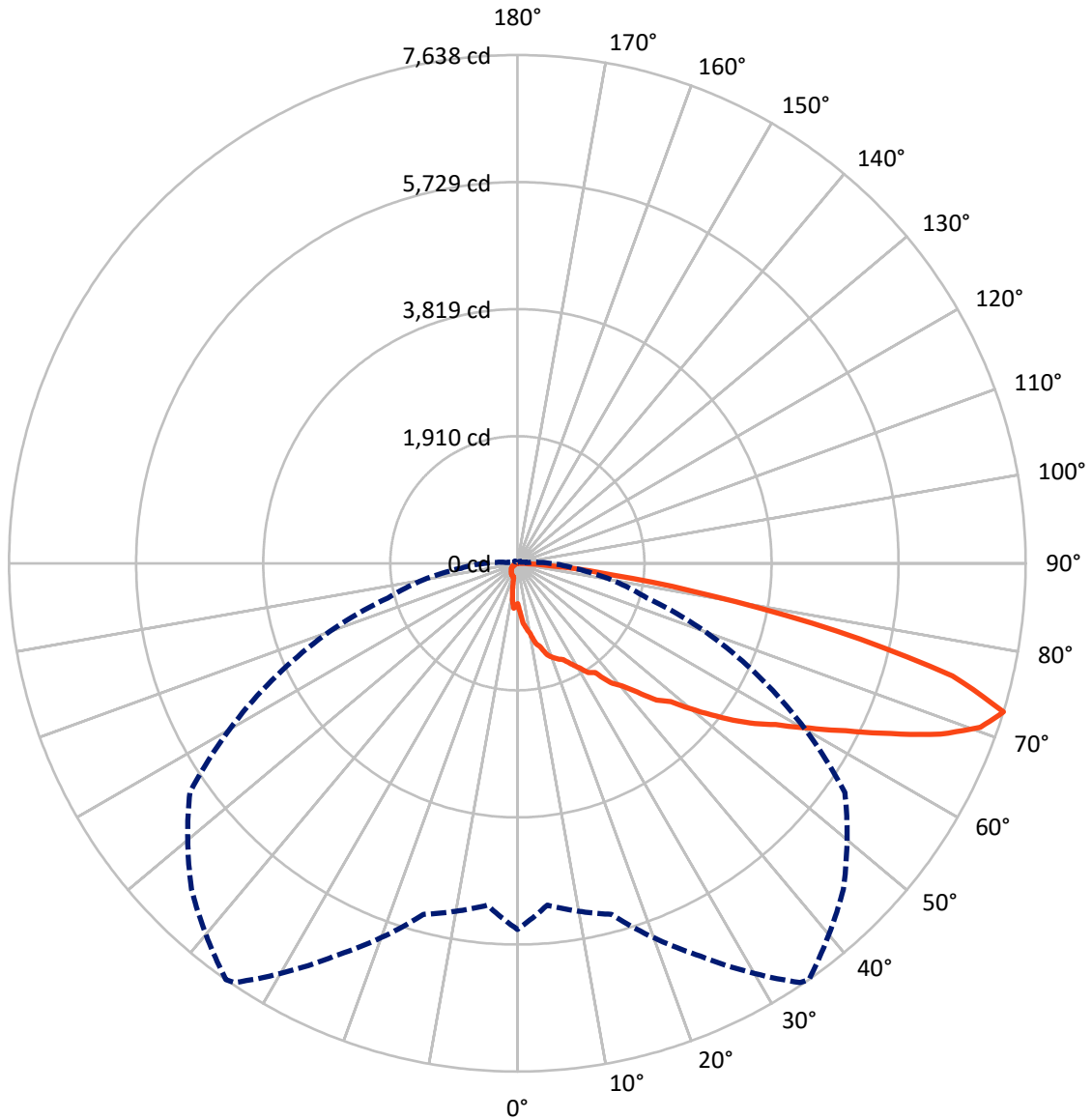
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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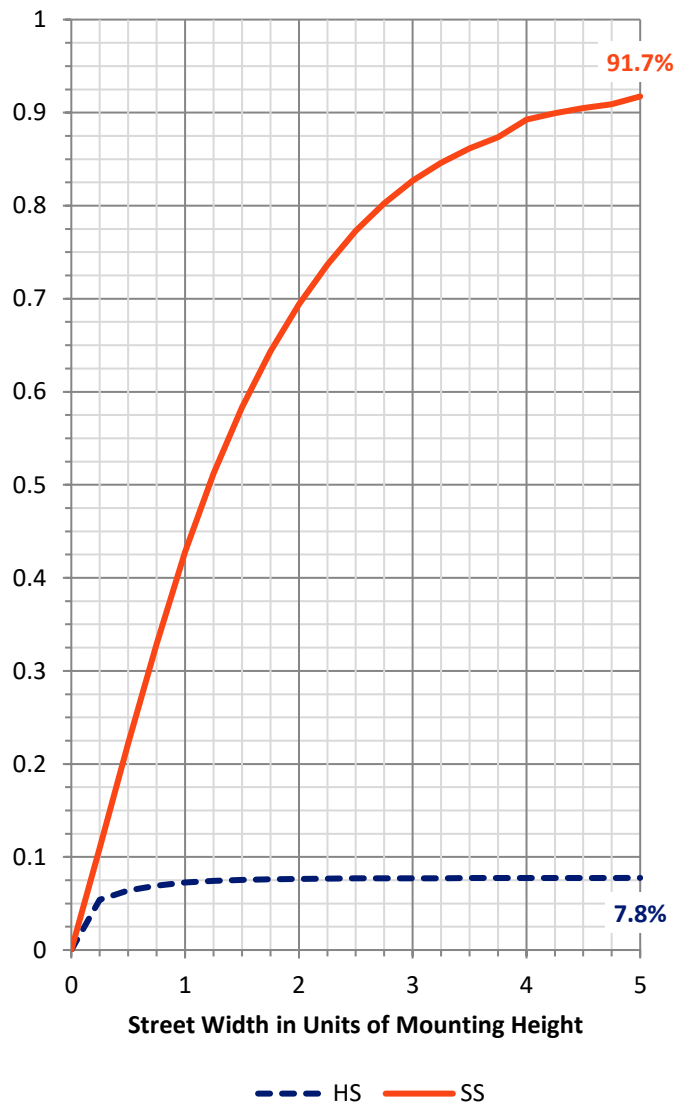
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 795.7 | 0.0 | 795.7 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 9406.3 | 0.0 | 9406.3 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 10202.0 | 0.0 | 10202.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 77.5 | 0.8 |
| 10°-20° | 261.1 | 2.6 |
| 20°-30° | 475.5 | 4.7 |
| 30°-40° | 820.1 | 8.0 |
| 40°-50° | 1457.9 | 14.3 |
| 50°-60° | 2175.5 | 21.3 |
| 60°-70° | 2779.5 | 27.2 |
| 70°-80° | 1933.8 | 19.0 |
| 80°-90° | 221.2 | 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° | 10202.0 | 100.0 |
| 0°-180° | 10202.0 | 100.0 |

Coefficient of Utilization



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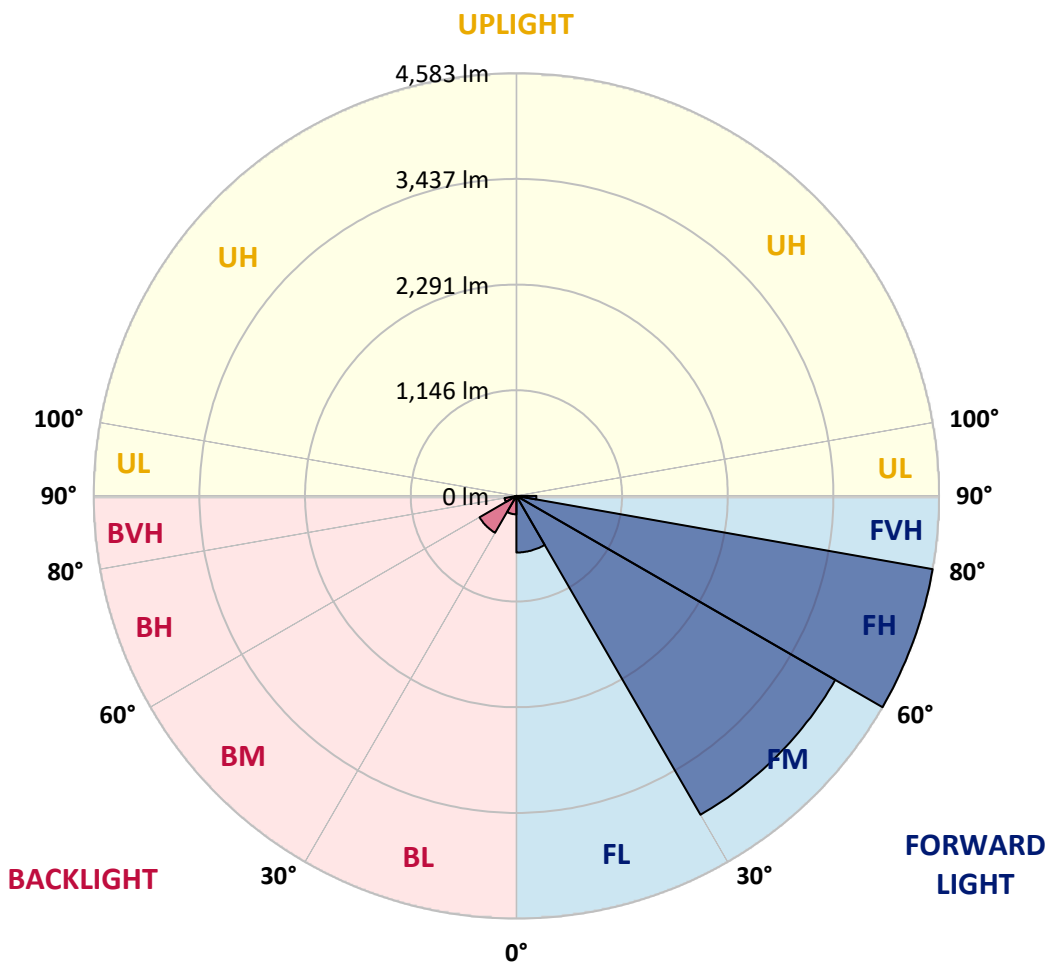
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 613.9 | 6.0 | | | |
| FM (30°-60°) | 3992.1 | 39.1 | | | |
| FH (60°-80°) | 4582.8 | 44.9 | | | G2/5000 |
| FVH (80°-90°) | 217.5 | 2.1 | | | G2/225 |
| BL (0°-30°) | 200.1 | 2.0 | B1/500 | | |
| BM (30°-60°) | 461.4 | 4.5 | B1/1000 | | |
| BH (60°-80°) | 130.5 | 1.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.7 | 0.0 | | | G0/10 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 |
| 2.5° | 773.4 | 743.1 | 693.9 | 697.5 | 719.5 | 724.1 | 730.8 | 713.4 | 698.0 | 670.8 | 723.6 |
| 5° | 990.8 | 947.2 | 919.5 | 910.8 | 898.0 | 899.0 | 867.7 | 879.0 | 876.0 | 896.0 | 920.1 |
| 7.5° | 1113.4 | 1089.3 | 1054.4 | 1044.7 | 997.5 | 992.4 | 953.9 | 1005.7 | 1010.8 | 1003.7 | 1043.1 |
| 10° | 1162.1 | 1130.3 | 1134.4 | 1098.0 | 1074.4 | 1080.6 | 1086.7 | 1090.8 | 1097.5 | 1104.2 | 1056.0 |
| 12.5° | 1190.8 | 1196.5 | 1252.4 | 1214.4 | 1238.0 | 1238.0 | 1279.6 | 1235.5 | 1237.0 | 1188.8 | 1197.0 |
| 15° | 1320.1 | 1351.4 | 1326.2 | 1325.7 | 1300.1 | 1306.8 | 1355.0 | 1320.1 | 1338.0 | 1323.7 | 1268.3 |
| 17.5° | 1482.1 | 1488.3 | 1440.6 | 1419.6 | 1442.7 | 1443.2 | 1422.7 | 1421.1 | 1358.5 | 1464.2 | 1397.0 |
| 20° | 1533.9 | 1568.8 | 1501.1 | 1419.1 | 1515.0 | 1510.4 | 1508.8 | 1484.7 | 1380.6 | 1527.3 | 1471.9 |
| 22.5° | 1675.0 | 1625.2 | 1579.1 | 1525.2 | 1562.7 | 1562.7 | 1557.0 | 1504.2 | 1463.7 | 1521.6 | 1545.2 |
| 25° | 1719.1 | 1725.2 | 1665.2 | 1647.8 | 1648.8 | 1602.7 | 1598.6 | 1576.0 | 1537.0 | 1636.0 | 1588.8 |
| 27.5° | 1870.9 | 1868.3 | 1724.2 | 1772.9 | 1710.9 | 1711.4 | 1598.1 | 1648.8 | 1655.5 | 1641.6 | 1694.5 |
| 30° | 2020.1 | 2061.7 | 1844.2 | 1905.8 | 1840.6 | 1821.1 | 1710.4 | 1755.5 | 1767.3 | 1751.4 | 1818.1 |
| 32.5° | 2210.4 | 2271.4 | 2060.1 | 1999.6 | 1900.1 | 1955.5 | 1879.1 | 1772.4 | 1830.9 | 1972.9 | 2010.4 |
| 35° | 2412.0 | 2441.7 | 2216.6 | 2131.9 | 2019.6 | 2019.1 | 2016.5 | 2025.3 | 2089.9 | 2249.9 | 2281.7 |
| 37.5° | 2774.0 | 2703.8 | 2500.2 | 2306.3 | 2331.4 | 2275.5 | 2236.6 | 2277.6 | 2344.8 | 2608.4 | 2744.3 |
| 40° | 2976.1 | 2925.3 | 2638.6 | 2523.8 | 2399.1 | 2419.6 | 2525.3 | 2520.7 | 2699.7 | 2975.6 | 3179.2 |
| 42.5° | 3172.5 | 3124.3 | 2842.2 | 2749.4 | 2589.4 | 2645.3 | 2691.5 | 2749.9 | 3116.6 | 3561.8 | 3673.6 |
| 45° | 3347.4 | 3205.8 | 3006.9 | 3010.5 | 2927.4 | 2934.0 | 3015.6 | 3069.4 | 3599.7 | 4056.2 | 4134.6 |
| 47.5° | 3453.0 | 3336.6 | 3145.8 | 3142.3 | 3137.1 | 3105.8 | 3490.0 | 3539.2 | 3984.9 | 4527.0 | 4534.1 |
| 50° | 3601.8 | 3456.1 | 3288.9 | 3292.0 | 3410.5 | 3476.6 | 3935.1 | 3930.0 | 4356.7 | 4919.8 | 4754.2 |
| 52.5° | 3786.9 | 3609.0 | 3424.8 | 3561.8 | 3744.9 | 3852.6 | 4224.9 | 4376.7 | 4756.2 | 5166.5 | 4840.3 |
| 55° | 4023.9 | 3801.3 | 3623.8 | 3799.2 | 4198.7 | 4240.3 | 4508.5 | 4829.0 | 5191.6 | 5418.3 | 4868.0 |
| 57.5° | 4301.8 | 4036.2 | 3892.6 | 4175.1 | 4573.6 | 4574.7 | 4921.3 | 5311.1 | 5458.8 | 5520.9 | 4836.7 |
| 60° | 4601.3 | 4291.6 | 4146.9 | 4401.3 | 4987.0 | 5029.0 | 5380.3 | 5577.3 | 5730.1 | 5572.7 | 4780.8 |
| 62.5° | 4864.9 | 4522.9 | 4410.5 | 4709.5 | 5440.4 | 5539.8 | 5780.4 | 5752.2 | 5926.0 | 5637.8 | 4638.8 |
| 65° | 5178.8 | 4822.4 | 4748.5 | 5190.1 | 6032.2 | 6169.1 | 6229.6 | 6062.4 | 5991.7 | 5587.5 | 4269.0 |
| 67.5° | 5489.6 | 5156.2 | 5154.2 | 5722.9 | 6808.1 | 6855.3 | 6791.7 | 6499.9 | 5915.3 | 5144.4 | 3591.5 |
| 70° | 5708.6 | 5350.6 | 5485.5 | 6306.6 | 7513.3 | 7381.0 | 7113.3 | 6706.6 | 5363.4 | 3942.8 | 2346.3 |
| 72.5° | 5502.9 | 5157.8 | 5461.9 | 6514.3 | 7600.5 | 7638.4 | 6927.1 | 6007.6 | 3984.9 | 2016.5 | 849.3 |
| 75° | 4181.8 | 3970.5 | 4742.4 | 5779.3 | 6748.1 | 6756.8 | 5781.9 | 4237.2 | 1962.2 | 547.7 | 234.9 |
| 77.5° | 2106.3 | 2039.1 | 3001.7 | 4102.8 | 4923.4 | 4909.0 | 3972.6 | 2269.9 | 631.3 | 182.1 | 118.5 |
| 80° | 1066.2 | 1012.4 | 1277.5 | 2213.5 | 2923.8 | 2945.3 | 2268.4 | 1016.5 | 318.5 | 99.0 | 82.1 |
| 82.5° | 654.9 | 621.6 | 699.0 | 1001.6 | 1419.1 | 1453.4 | 860.6 | 643.6 | 197.4 | 58.5 | 74.9 |
| 85° | 126.7 | 133.3 | 401.6 | 501.6 | 566.7 | 553.4 | 254.9 | 529.8 | 59.5 | 34.9 | 54.4 |
| 87.5° | 0.0 | 2.1 | 92.8 | 163.6 | 164.1 | 145.7 | 58.0 | 117.4 | 8.2 | 9.7 | 6.7 |
| 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° | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 | 607.7 |
| 2.5° | 732.4 | 724.7 | 660.6 | 653.4 | 654.9 | 644.1 | 640.6 | 618.0 | 612.3 | 647.2 | 653.4 |
| 5° | 909.8 | 858.5 | 799.0 | 777.5 | 744.2 | 687.7 | 679.5 | 665.2 | 649.3 | 655.4 | 650.8 |
| 7.5° | 1018.5 | 950.3 | 886.7 | 773.4 | 679.5 | 597.5 | 584.1 | 559.5 | 534.9 | 535.4 | 551.3 |
| 10° | 1036.0 | 978.5 | 890.8 | 752.9 | 645.7 | 543.1 | 453.9 | 389.3 | 360.0 | 333.9 | 341.6 |
| 12.5° | 1137.0 | 1083.7 | 922.1 | 746.7 | 596.4 | 436.4 | 319.5 | 256.4 | 228.7 | 219.5 | 218.5 |
| 15° | 1218.0 | 1176.0 | 975.4 | 727.7 | 487.2 | 307.2 | 228.7 | 210.3 | 205.1 | 213.9 | 211.3 |
| 17.5° | 1338.5 | 1262.6 | 969.8 | 649.3 | 371.3 | 233.3 | 210.8 | 208.2 | 214.4 | 219.5 | 221.0 |
| 20° | 1391.4 | 1282.1 | 931.3 | 526.2 | 278.0 | 213.9 | 205.7 | 200.5 | 211.8 | 227.2 | 224.1 |
| 22.5° | 1444.7 | 1315.5 | 886.2 | 430.8 | 223.6 | 204.6 | 200.0 | 195.9 | 204.6 | 219.5 | 223.1 |
| 25° | 1468.8 | 1368.8 | 836.0 | 336.4 | 207.7 | 193.9 | 190.8 | 192.3 | 199.5 | 212.8 | 211.3 |
| 27.5° | 1590.4 | 1375.0 | 740.0 | 265.7 | 201.0 | 186.2 | 186.2 | 189.8 | 189.8 | 207.7 | 206.2 |
| 30° | 1666.3 | 1479.1 | 662.1 | 223.6 | 193.3 | 175.4 | 181.6 | 183.1 | 180.5 | 200.0 | 201.6 |
| 32.5° | 1799.6 | 1507.8 | 586.2 | 205.1 | 181.0 | 173.9 | 172.8 | 173.9 | 175.9 | 194.9 | 195.4 |
| 35° | 2004.7 | 1649.3 | 482.6 | 198.0 | 174.9 | 166.2 | 159.0 | 164.6 | 169.8 | 183.6 | 186.2 |
| 37.5° | 2405.8 | 1794.5 | 393.4 | 192.3 | 171.8 | 159.0 | 156.4 | 155.4 | 164.6 | 180.5 | 185.7 |
| 40° | 2730.4 | 2051.4 | 320.0 | 187.7 | 165.7 | 154.9 | 148.2 | 148.7 | 156.9 | 168.7 | 176.4 |
| 42.5° | 3190.0 | 2237.1 | 271.3 | 180.5 | 156.9 | 146.2 | 138.5 | 143.1 | 146.7 | 159.0 | 164.1 |
| 45° | 3573.6 | 2381.2 | 239.0 | 175.9 | 148.2 | 138.0 | 131.8 | 136.9 | 133.3 | 139.5 | 146.7 |
| 47.5° | 3878.7 | 2506.8 | 214.9 | 164.6 | 142.6 | 133.3 | 125.6 | 124.1 | 118.0 | 119.5 | 126.2 |
| 50° | 4046.4 | 2485.8 | 194.9 | 153.3 | 135.4 | 128.7 | 118.0 | 107.2 | 99.0 | 98.5 | 102.6 |
| 52.5° | 4105.9 | 2373.5 | 178.5 | 143.6 | 126.7 | 118.5 | 106.2 | 91.3 | 83.1 | 80.5 | 84.1 |
| 55° | 4122.3 | 2211.9 | 163.6 | 132.8 | 118.5 | 105.6 | 92.8 | 76.9 | 68.2 | 64.1 | 67.7 |
| 57.5° | 4069.0 | 1963.2 | 149.2 | 122.6 | 108.7 | 93.3 | 79.5 | 63.1 | 54.9 | 49.7 | 52.8 |
| 60° | 3937.2 | 1647.3 | 136.4 | 109.8 | 98.5 | 82.6 | 67.2 | 50.8 | 42.1 | 37.4 | 39.0 |
| 62.5° | 3645.4 | 1291.4 | 122.6 | 98.0 | 87.7 | 72.3 | 56.4 | 40.0 | 31.8 | 27.7 | 28.2 |
| 65° | 3201.2 | 962.6 | 106.7 | 86.7 | 78.0 | 62.6 | 45.1 | 30.8 | 24.1 | 20.5 | 20.0 |
| 67.5° | 2550.4 | 652.4 | 90.8 | 74.9 | 69.2 | 52.8 | 35.9 | 24.1 | 19.0 | 16.4 | 15.4 |
| 70° | 1499.1 | 328.7 | 75.4 | 64.6 | 59.5 | 44.1 | 28.2 | 19.5 | 17.4 | 15.4 | 14.4 |
| 72.5° | 494.4 | 142.1 | 59.0 | 53.3 | 49.2 | 35.4 | 22.1 | 17.9 | 16.9 | 14.9 | 13.8 |
| 75° | 172.3 | 82.1 | 43.6 | 41.0 | 39.0 | 26.7 | 18.5 | 16.4 | 16.4 | 14.4 | 12.8 |
| 77.5° | 112.8 | 63.6 | 32.3 | 29.7 | 29.2 | 19.5 | 15.9 | 15.4 | 14.4 | 11.8 | 9.7 |
| 80° | 93.9 | 35.9 | 22.6 | 21.0 | 20.5 | 12.3 | 12.8 | 11.3 | 8.7 | 5.1 | 2.1 |
| 82.5° | 86.7 | 21.5 | 11.8 | 12.8 | 11.8 | 4.6 | 7.2 | 6.2 | 4.6 | 2.1 | 0.0 |
| 85° | 50.8 | 9.7 | 6.7 | 6.7 | 5.1 | 1.0 | 3.6 | 3.6 | 2.1 | 0.5 | 0.0 |
| 87.5° | 5.6 | 4.6 | 3.6 | 3.6 | 2.6 | 0.0 | 1.5 | 1.0 | 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)