

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: P366871

Luminaire Tested: **PMM-SA1C-727-U-SL4-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366871
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-SA1C-727-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: 4338 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

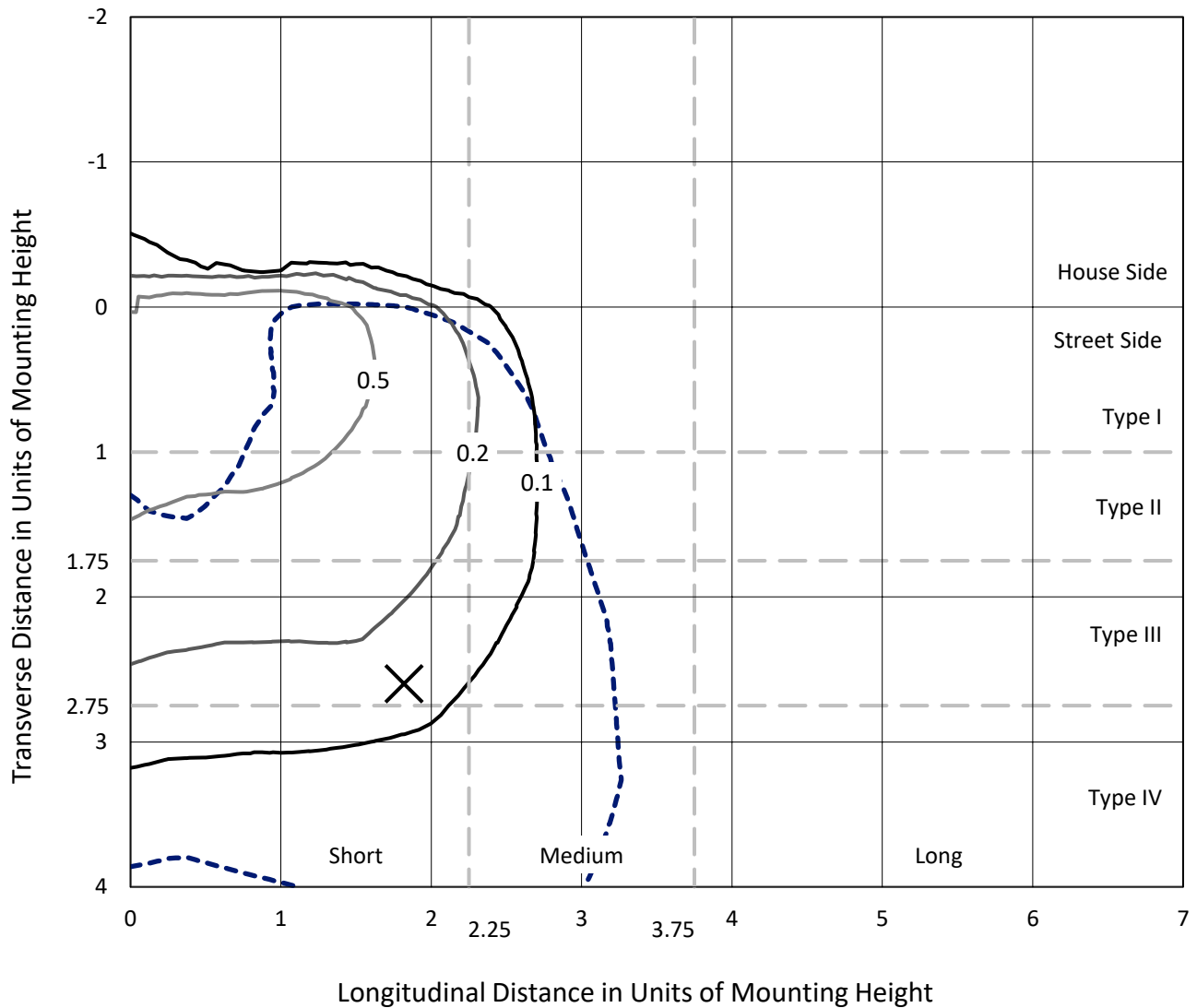
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

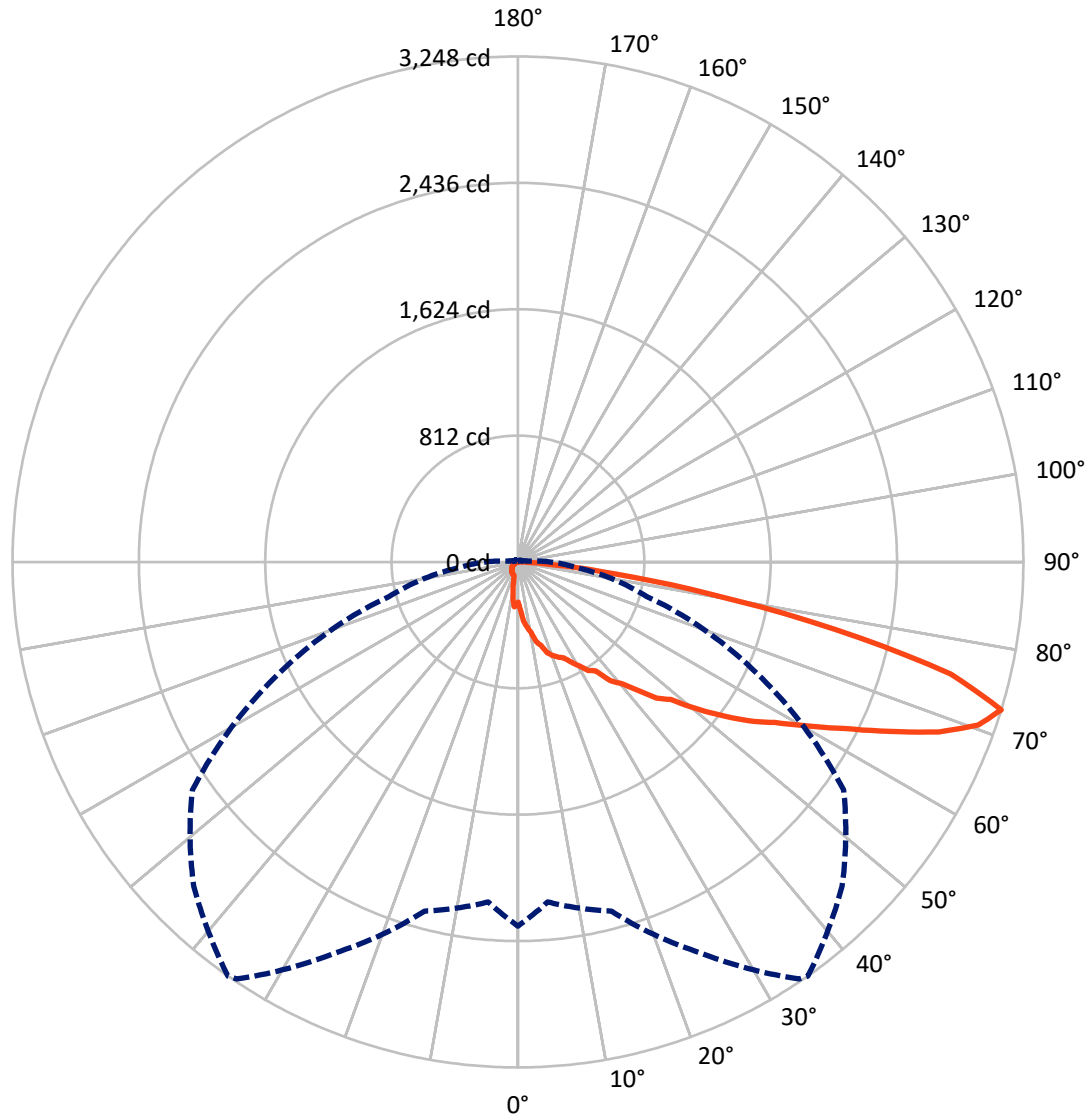
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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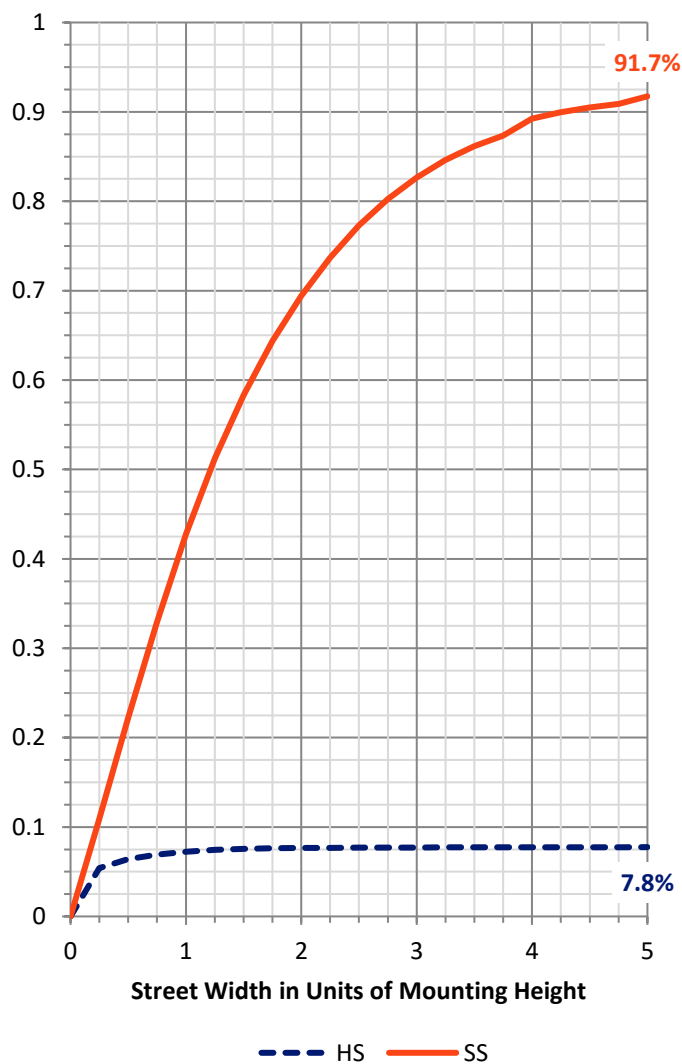
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 338.4 | 0.0 | 338.4 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 3999.6 | 0.0 | 3999.6 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 4338.0 | 0.0 | 4338.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 33.0 | 0.8 |
| 10°-20° | 111.0 | 2.6 |
| 20°-30° | 202.2 | 4.7 |
| 30°-40° | 348.7 | 8.0 |
| 40°-50° | 619.9 | 14.3 |
| 50°-60° | 925.1 | 21.3 |
| 60°-70° | 1181.9 | 27.2 |
| 70°-80° | 822.3 | 19.0 |
| 80°-90° | 94.1 | 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° | 4338.0 | 100.0 |
| 0°-180° | 4338.0 | 100.0 |

Coefficient of Utilization

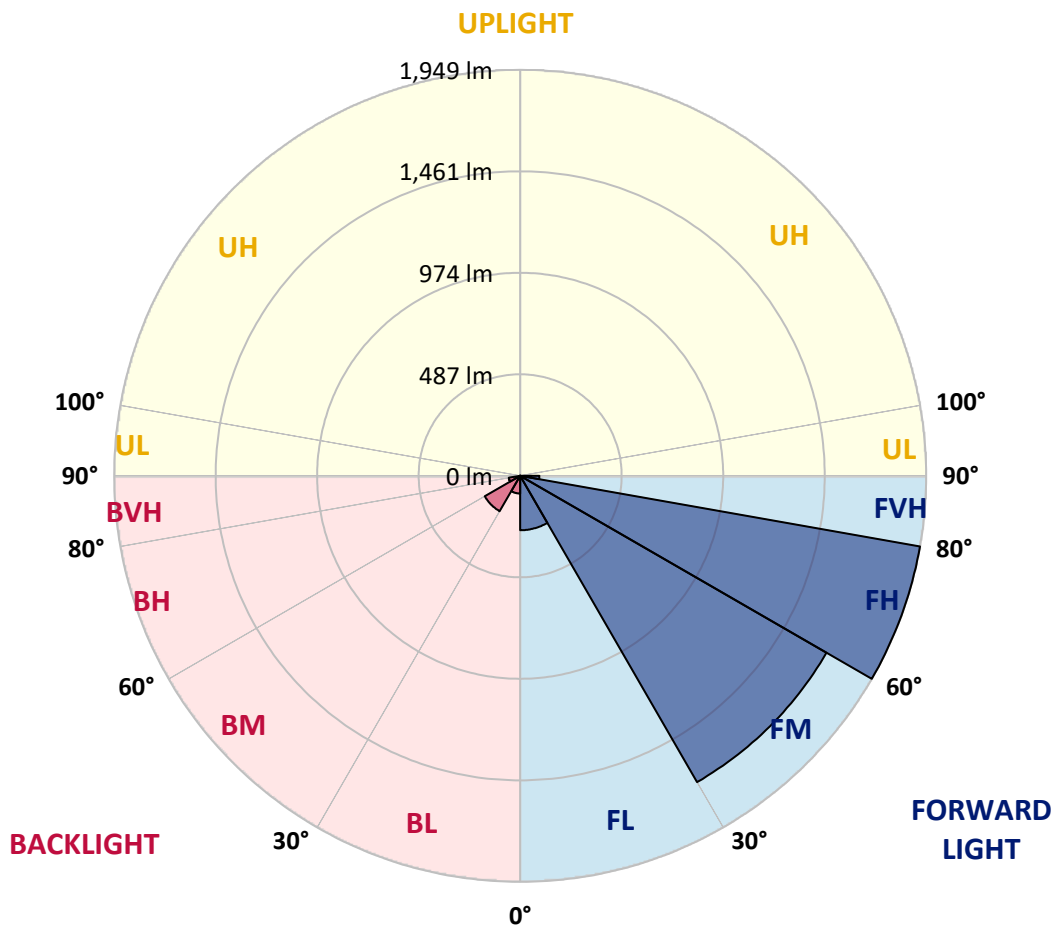


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 261.0 | 6.0 | | | |
| FM (30°-60°) | 1697.5 | 39.1 | | | |
| FH (60°-80°) | 1948.6 | 44.9 | | | G2/5000 |
| FVH (80°-90°) | 92.5 | 2.1 | | | G1/100 |
| BL (0°-30°) | 85.1 | 2.0 | B0/110 | | |
| BM (30°-60°) | 196.2 | 4.5 | B0/220 | | |
| BH (60°-80°) | 55.5 | 1.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.6 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 |
| 2.5° | 328.9 | 316.0 | 295.0 | 296.6 | 306.0 | 307.9 | 310.8 | 303.3 | 296.8 | 285.2 | 307.7 |
| 5° | 421.3 | 402.8 | 391.0 | 387.3 | 381.8 | 382.3 | 369.0 | 373.8 | 372.5 | 381.0 | 391.2 |
| 7.5° | 473.4 | 463.2 | 448.4 | 444.2 | 424.1 | 422.0 | 405.6 | 427.6 | 429.8 | 426.8 | 443.6 |
| 10° | 494.1 | 480.6 | 482.4 | 466.9 | 456.9 | 459.5 | 462.1 | 463.8 | 466.7 | 469.5 | 449.0 |
| 12.5° | 506.4 | 508.8 | 532.5 | 516.4 | 526.4 | 526.4 | 544.1 | 525.3 | 526.0 | 505.5 | 509.0 |
| 15° | 561.3 | 574.6 | 563.9 | 563.7 | 552.8 | 555.6 | 576.1 | 561.3 | 568.9 | 562.8 | 539.3 |
| 17.5° | 630.2 | 632.8 | 612.6 | 603.6 | 613.4 | 613.7 | 604.9 | 604.3 | 577.7 | 622.6 | 594.0 |
| 20° | 652.3 | 667.1 | 638.3 | 603.4 | 644.2 | 642.2 | 641.6 | 631.3 | 587.0 | 649.4 | 625.9 |
| 22.5° | 712.2 | 691.1 | 671.4 | 648.5 | 664.5 | 664.5 | 662.1 | 639.6 | 622.4 | 647.0 | 657.0 |
| 25° | 731.0 | 733.6 | 708.1 | 700.7 | 701.1 | 681.5 | 679.7 | 670.1 | 653.6 | 695.6 | 675.6 |
| 27.5° | 795.5 | 794.4 | 733.2 | 753.9 | 727.5 | 727.7 | 679.5 | 701.1 | 703.9 | 698.0 | 720.5 |
| 30° | 859.0 | 876.6 | 784.2 | 810.4 | 782.7 | 774.4 | 727.3 | 746.5 | 751.5 | 744.7 | 773.1 |
| 32.5° | 939.9 | 965.8 | 876.0 | 850.3 | 808.0 | 831.5 | 799.0 | 753.7 | 778.5 | 838.9 | 854.8 |
| 35° | 1025.6 | 1038.2 | 942.5 | 906.5 | 858.8 | 858.5 | 857.5 | 861.2 | 888.6 | 956.7 | 970.2 |
| 37.5° | 1179.5 | 1149.7 | 1063.1 | 980.7 | 991.4 | 967.6 | 951.0 | 968.5 | 997.0 | 1109.1 | 1166.9 |
| 40° | 1265.5 | 1243.9 | 1122.0 | 1073.1 | 1020.1 | 1028.9 | 1073.8 | 1071.8 | 1147.9 | 1265.2 | 1351.8 |
| 42.5° | 1349.0 | 1328.5 | 1208.5 | 1169.1 | 1101.0 | 1124.8 | 1144.4 | 1169.3 | 1325.2 | 1514.5 | 1562.0 |
| 45° | 1423.3 | 1363.2 | 1278.5 | 1280.1 | 1244.7 | 1247.6 | 1282.3 | 1305.2 | 1530.6 | 1724.7 | 1758.1 |
| 47.5° | 1468.3 | 1418.8 | 1337.6 | 1336.1 | 1333.9 | 1320.6 | 1484.0 | 1504.9 | 1694.4 | 1924.9 | 1928.0 |
| 50° | 1531.5 | 1469.6 | 1398.5 | 1399.8 | 1450.2 | 1478.3 | 1673.3 | 1671.1 | 1852.5 | 2092.0 | 2021.5 |
| 52.5° | 1610.2 | 1534.6 | 1456.3 | 1514.5 | 1592.4 | 1638.1 | 1796.5 | 1861.0 | 2022.4 | 2196.8 | 2058.2 |
| 55° | 1711.0 | 1616.3 | 1540.9 | 1615.5 | 1785.3 | 1803.0 | 1917.1 | 2053.4 | 2207.5 | 2303.9 | 2069.9 |
| 57.5° | 1829.2 | 1716.2 | 1655.2 | 1775.3 | 1944.8 | 1945.2 | 2092.6 | 2258.3 | 2321.1 | 2347.5 | 2056.6 |
| 60° | 1956.5 | 1824.8 | 1763.3 | 1871.5 | 2120.5 | 2138.4 | 2287.8 | 2371.5 | 2436.5 | 2369.6 | 2032.9 |
| 62.5° | 2068.6 | 1923.2 | 1875.4 | 2002.5 | 2313.3 | 2355.6 | 2457.9 | 2445.9 | 2519.8 | 2397.3 | 1972.5 |
| 65° | 2202.1 | 2050.5 | 2019.1 | 2206.9 | 2565.0 | 2623.2 | 2648.9 | 2577.8 | 2547.7 | 2375.9 | 1815.2 |
| 67.5° | 2334.2 | 2192.5 | 2191.6 | 2433.5 | 2894.9 | 2915.0 | 2887.9 | 2763.8 | 2515.2 | 2187.5 | 1527.2 |
| 70° | 2427.3 | 2275.1 | 2332.5 | 2681.6 | 3194.7 | 3138.5 | 3024.6 | 2851.7 | 2280.6 | 1676.5 | 997.7 |
| 72.5° | 2339.9 | 2193.1 | 2322.5 | 2769.9 | 3231.8 | 3247.9 | 2945.5 | 2554.5 | 1694.4 | 857.5 | 361.1 |
| 75° | 1778.2 | 1688.3 | 2016.5 | 2457.4 | 2869.4 | 2873.1 | 2458.5 | 1801.7 | 834.3 | 232.9 | 99.9 |
| 77.5° | 895.6 | 867.1 | 1276.4 | 1744.6 | 2093.5 | 2087.4 | 1689.2 | 965.2 | 268.4 | 77.4 | 50.4 |
| 80° | 453.4 | 430.5 | 543.2 | 941.2 | 1243.2 | 1252.4 | 964.5 | 432.2 | 135.4 | 42.1 | 34.9 |
| 82.5° | 278.5 | 264.3 | 297.2 | 425.9 | 603.4 | 618.0 | 365.9 | 273.7 | 84.0 | 24.9 | 31.8 |
| 85° | 53.9 | 56.7 | 170.7 | 213.3 | 241.0 | 235.3 | 108.4 | 225.3 | 25.3 | 14.8 | 23.1 |
| 87.5° | 0.0 | 0.9 | 39.5 | 69.6 | 69.8 | 61.9 | 24.6 | 49.9 | 3.5 | 4.1 | 2.8 |
| 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° | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 | 258.4 |
| 2.5° | 311.4 | 308.1 | 280.9 | 277.8 | 278.5 | 273.9 | 272.4 | 262.8 | 260.4 | 275.2 | 277.8 |
| 5° | 386.9 | 365.1 | 339.8 | 330.6 | 316.4 | 292.4 | 288.9 | 282.8 | 276.1 | 278.7 | 276.7 |
| 7.5° | 433.1 | 404.1 | 377.0 | 328.9 | 288.9 | 254.1 | 248.4 | 237.9 | 227.4 | 227.7 | 234.4 |
| 10° | 440.5 | 416.1 | 378.8 | 320.1 | 274.6 | 230.9 | 193.0 | 165.5 | 153.1 | 142.0 | 145.2 |
| 12.5° | 483.5 | 460.8 | 392.1 | 317.5 | 253.6 | 185.6 | 135.9 | 109.0 | 97.3 | 93.3 | 92.9 |
| 15° | 517.9 | 500.0 | 414.8 | 309.4 | 207.2 | 130.6 | 97.3 | 89.4 | 87.2 | 90.9 | 89.8 |
| 17.5° | 569.2 | 536.9 | 412.4 | 276.1 | 157.9 | 99.2 | 89.6 | 88.5 | 91.2 | 93.3 | 94.0 |
| 20° | 591.6 | 545.2 | 396.0 | 223.7 | 118.2 | 90.9 | 87.4 | 85.3 | 90.1 | 96.6 | 95.3 |
| 22.5° | 614.3 | 559.4 | 376.8 | 183.2 | 95.1 | 87.0 | 85.0 | 83.3 | 87.0 | 93.3 | 94.9 |
| 25° | 624.6 | 582.0 | 355.5 | 143.1 | 88.3 | 82.4 | 81.1 | 81.8 | 84.8 | 90.5 | 89.8 |
| 27.5° | 676.2 | 584.6 | 314.7 | 113.0 | 85.5 | 79.2 | 79.2 | 80.7 | 80.7 | 88.3 | 87.7 |
| 30° | 708.5 | 628.9 | 281.5 | 95.1 | 82.2 | 74.6 | 77.2 | 77.9 | 76.8 | 85.0 | 85.7 |
| 32.5° | 765.2 | 641.1 | 249.3 | 87.2 | 77.0 | 73.9 | 73.5 | 73.9 | 74.8 | 82.9 | 83.1 |
| 35° | 852.4 | 701.3 | 205.2 | 84.2 | 74.4 | 70.7 | 67.6 | 70.0 | 72.2 | 78.1 | 79.2 |
| 37.5° | 1023.0 | 763.0 | 167.3 | 81.8 | 73.1 | 67.6 | 66.5 | 66.1 | 70.0 | 76.8 | 78.9 |
| 40° | 1161.0 | 872.3 | 136.1 | 79.8 | 70.4 | 65.9 | 63.0 | 63.2 | 66.7 | 71.7 | 75.0 |
| 42.5° | 1356.4 | 951.2 | 115.4 | 76.8 | 66.7 | 62.2 | 58.9 | 60.8 | 62.4 | 67.6 | 69.8 |
| 45° | 1519.5 | 1012.5 | 101.6 | 74.8 | 63.0 | 58.7 | 56.0 | 58.2 | 56.7 | 59.3 | 62.4 |
| 47.5° | 1649.3 | 1065.9 | 91.4 | 70.0 | 60.6 | 56.7 | 53.4 | 52.8 | 50.2 | 50.8 | 53.6 |
| 50° | 1720.6 | 1057.0 | 82.9 | 65.2 | 57.6 | 54.7 | 50.2 | 45.6 | 42.1 | 41.9 | 43.6 |
| 52.5° | 1745.9 | 1009.2 | 75.9 | 61.1 | 53.9 | 50.4 | 45.1 | 38.8 | 35.3 | 34.2 | 35.8 |
| 55° | 1752.9 | 940.5 | 69.6 | 56.5 | 50.4 | 44.9 | 39.5 | 32.7 | 29.0 | 27.3 | 28.8 |
| 57.5° | 1730.2 | 834.8 | 63.5 | 52.1 | 46.2 | 39.7 | 33.8 | 26.8 | 23.3 | 21.2 | 22.5 |
| 60° | 1674.1 | 700.4 | 58.0 | 46.7 | 41.9 | 35.1 | 28.6 | 21.6 | 17.9 | 15.9 | 16.6 |
| 62.5° | 1550.0 | 549.1 | 52.1 | 41.7 | 37.3 | 30.7 | 24.0 | 17.0 | 13.5 | 11.8 | 12.0 |
| 65° | 1361.2 | 409.3 | 45.4 | 36.9 | 33.1 | 26.6 | 19.2 | 13.1 | 10.2 | 8.7 | 8.5 |
| 67.5° | 1084.5 | 277.4 | 38.6 | 31.8 | 29.4 | 22.5 | 15.3 | 10.2 | 8.1 | 7.0 | 6.5 |
| 70° | 637.4 | 139.8 | 32.1 | 27.5 | 25.3 | 18.8 | 12.0 | 8.3 | 7.4 | 6.5 | 6.1 |
| 72.5° | 210.2 | 60.4 | 25.1 | 22.7 | 20.9 | 15.0 | 9.4 | 7.6 | 7.2 | 6.3 | 5.9 |
| 75° | 73.3 | 34.9 | 18.5 | 17.4 | 16.6 | 11.3 | 7.9 | 7.0 | 7.0 | 6.1 | 5.5 |
| 77.5° | 48.0 | 27.0 | 13.7 | 12.6 | 12.4 | 8.3 | 6.8 | 6.5 | 6.1 | 5.0 | 4.1 |
| 80° | 39.9 | 15.3 | 9.6 | 8.9 | 8.7 | 5.2 | 5.5 | 4.8 | 3.7 | 2.2 | 0.9 |
| 82.5° | 36.9 | 9.2 | 5.0 | 5.5 | 5.0 | 2.0 | 3.1 | 2.6 | 2.0 | 0.9 | 0.0 |
| 85° | 21.6 | 4.1 | 2.8 | 2.8 | 2.2 | 0.4 | 1.5 | 1.5 | 0.9 | 0.2 | 0.0 |
| 87.5° | 2.4 | 2.0 | 1.5 | 1.5 | 1.1 | 0.0 | 0.7 | 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)