

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: P368143

Luminaire Tested: **PMM-SA3D-760-U-SL2-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-17)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3D-760-U-SL2-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16314 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

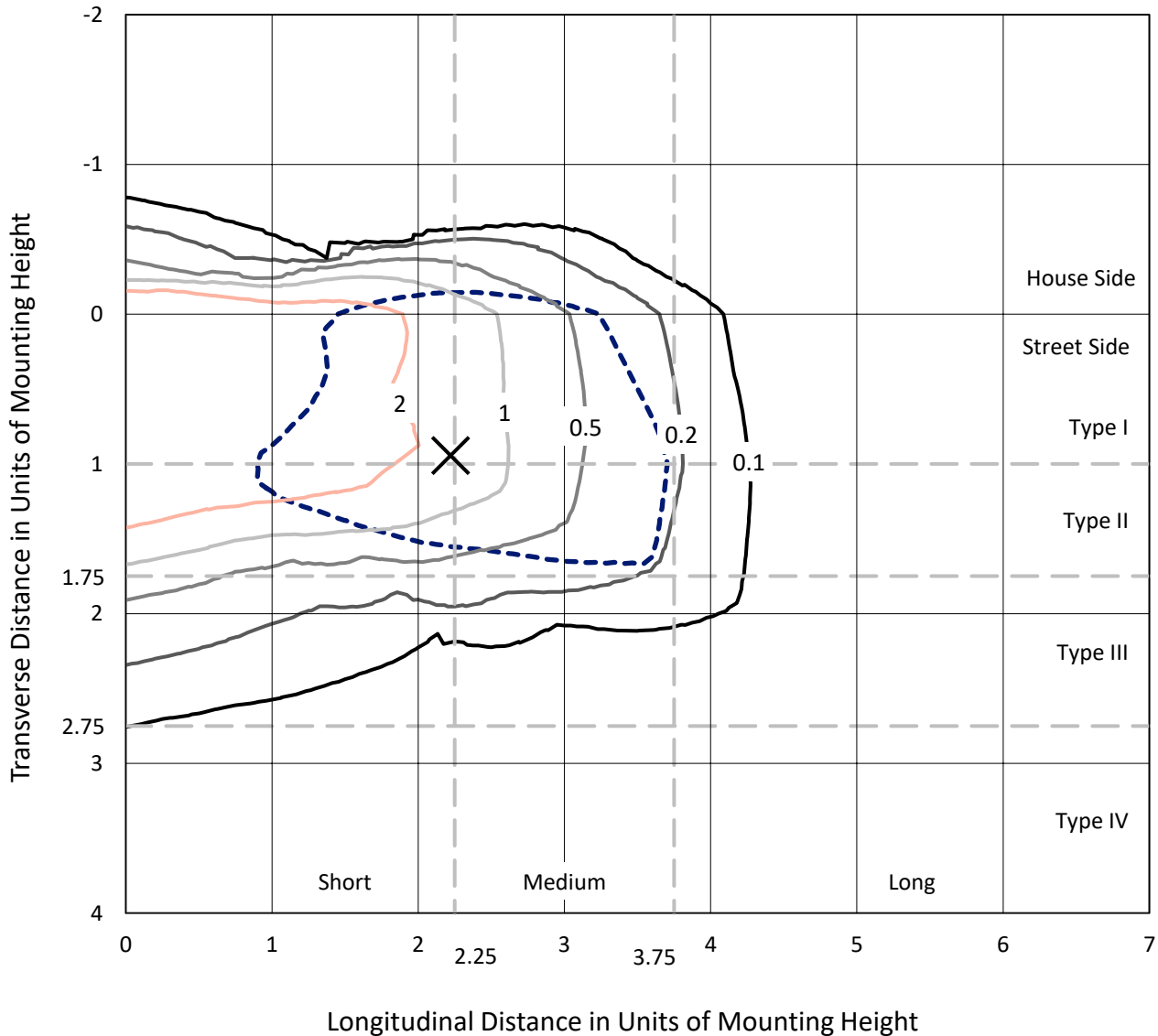
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

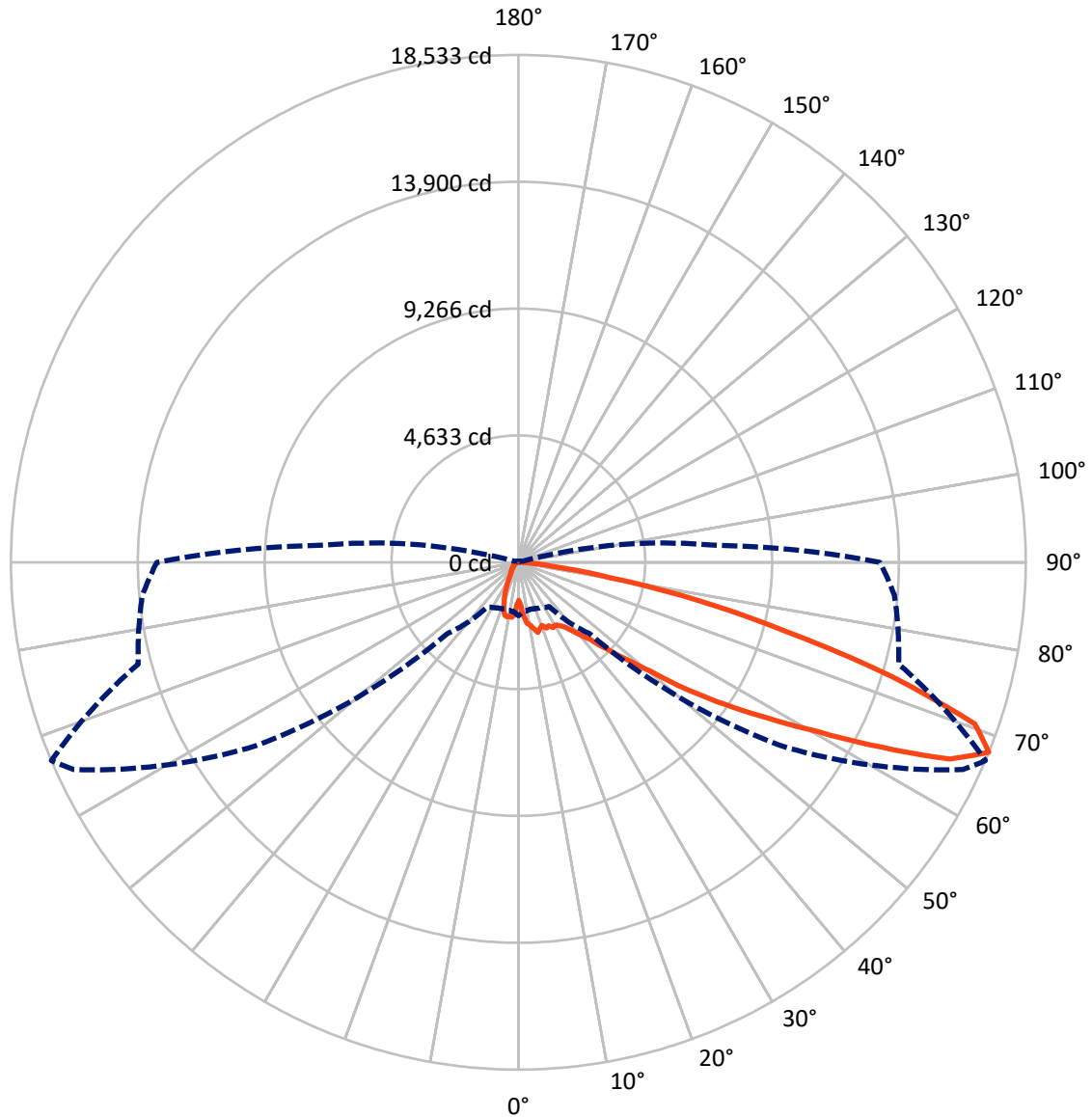
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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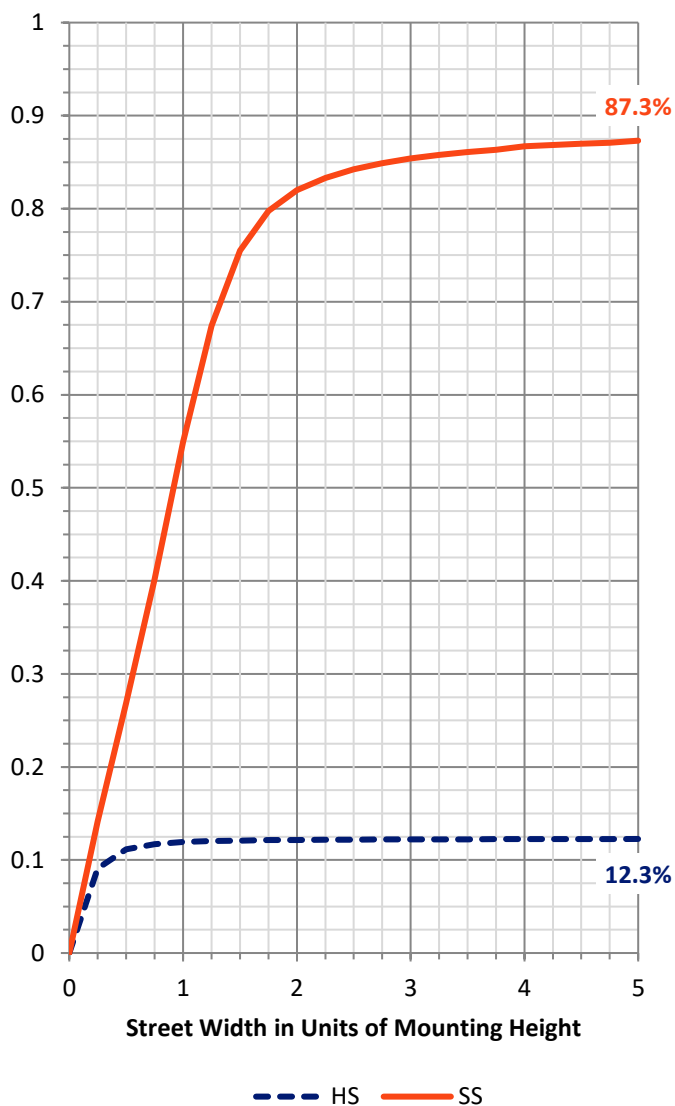
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2017.6 | 0.0 | 2017.6 |
| | % Fixture | 12.4 | 0.0 | 12.4 |
| Street Side | Lumens | 14296.4 | 0.0 | 14296.4 |
| | % Fixture | 87.6 | 0.0 | 87.6 |
| Total | Lumens | 16314.0 | 0.0 | 16314.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 174.4 | 1.1 |
| 10°-20° | 516.1 | 3.2 |
| 20°-30° | 808.8 | 5.0 |
| 30°-40° | 1304.1 | 8.0 |
| 40°-50° | 2396.3 | 14.7 |
| 50°-60° | 4047.0 | 24.8 |
| 60°-70° | 4474.1 | 27.4 |
| 70°-80° | 2341.7 | 14.4 |
| 80°-90° | 251.5 | 1.5 |
| 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° | 16314.0 | 100.0 |
| 0°-180° | 16314.0 | 100.0 |

Coefficient of Utilization



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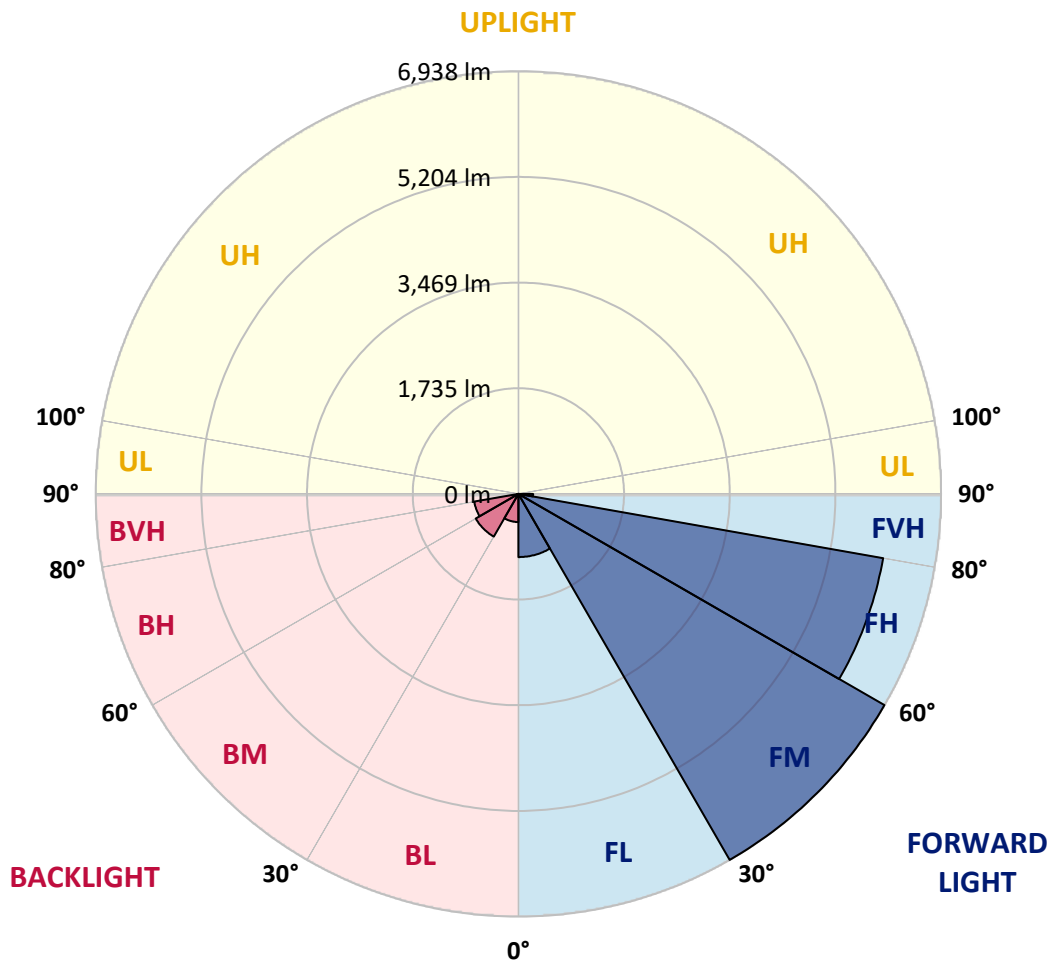
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1037.3 | 6.4 | | | |
| FM (30°-60°) | 6938.4 | 42.5 | | | |
| FH (60°-80°) | 6080.0 | 37.3 | | | G3/7500 |
| FVH (80°-90°) | 240.8 | 1.5 | | | G3/500 |
| BL (0°-30°) | 461.9 | 2.8 | B1/500 | | |
| BM (30°-60°) | 809.0 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 735.9 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 10.7 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 |
| 2.5° | 1640.2 | 1584.8 | 1490.5 | 1517.8 | 1572.4 | 1617.9 | 1596.4 | 1554.2 | 1555.0 | 1512.0 | 1666.7 |
| 5° | 1908.4 | 1833.9 | 1779.3 | 1798.3 | 1795.8 | 1794.2 | 1896.0 | 1934.9 | 1951.4 | 2022.6 | 2127.7 |
| 7.5° | 1985.3 | 1958.9 | 1901.8 | 1919.1 | 1862.0 | 1866.2 | 2044.9 | 2213.8 | 2240.2 | 2284.1 | 2471.1 |
| 10° | 1955.6 | 1904.2 | 1924.9 | 1924.9 | 1925.8 | 2018.5 | 2138.4 | 2299.8 | 2332.1 | 2500.9 | 2520.8 |
| 12.5° | 1923.3 | 1925.8 | 2007.7 | 1992.8 | 2105.3 | 2271.7 | 2312.2 | 2493.5 | 2477.8 | 2624.2 | 2841.9 |
| 15° | 2043.3 | 2106.2 | 2053.2 | 2073.9 | 2084.7 | 2280.0 | 2345.3 | 2586.2 | 2655.7 | 2841.1 | 2982.6 |
| 17.5° | 2249.3 | 2257.6 | 2147.6 | 2117.8 | 2195.6 | 2251.0 | 2382.6 | 2498.4 | 2544.8 | 3031.4 | 3231.7 |
| 20° | 2286.6 | 2339.5 | 2227.8 | 2055.7 | 2220.4 | 2296.5 | 2388.4 | 2443.8 | 2463.7 | 3090.2 | 3372.4 |
| 22.5° | 2510.9 | 2452.1 | 2273.3 | 2142.6 | 2189.8 | 2272.5 | 2329.6 | 2496.8 | 2616.0 | 2979.3 | 3507.3 |
| 25° | 2625.9 | 2610.2 | 2439.7 | 2328.0 | 2280.0 | 2273.3 | 2404.1 | 2530.7 | 2568.8 | 3094.3 | 3540.4 |
| 27.5° | 2901.5 | 2865.9 | 2535.7 | 2521.6 | 2363.5 | 2224.5 | 2406.6 | 2634.2 | 2705.3 | 2985.9 | 3664.5 |
| 30° | 3276.4 | 3263.1 | 2823.7 | 2814.6 | 2563.0 | 2313.1 | 2540.6 | 2697.9 | 2654.9 | 3041.3 | 3747.3 |
| 32.5° | 3653.7 | 3761.3 | 3311.9 | 3055.4 | 2866.7 | 2638.3 | 2502.6 | 2678.0 | 2755.0 | 3176.2 | 3899.5 |
| 35° | 4109.7 | 4187.5 | 3729.9 | 3543.7 | 3124.1 | 2790.6 | 2755.0 | 2867.5 | 2900.6 | 3336.8 | 4072.5 |
| 37.5° | 4907.5 | 4790.0 | 4400.2 | 4083.2 | 3863.1 | 3334.3 | 3158.8 | 3069.5 | 3146.4 | 3554.4 | 4425.9 |
| 40° | 5496.7 | 5422.3 | 4942.3 | 4752.8 | 4246.3 | 3936.8 | 3478.3 | 3394.7 | 3480.8 | 3777.9 | 4671.6 |
| 42.5° | 6207.6 | 6052.9 | 5601.0 | 5472.7 | 4951.4 | 4354.7 | 3889.6 | 3918.6 | 3864.8 | 4219.0 | 5102.8 |
| 45° | 6850.6 | 6501.4 | 6249.8 | 6278.8 | 6000.7 | 5194.7 | 4575.7 | 4561.6 | 4516.9 | 4857.9 | 5556.3 |
| 47.5° | 7283.5 | 6978.1 | 6733.1 | 6652.9 | 6619.8 | 6671.9 | 5567.1 | 5317.2 | 5284.1 | 5529.0 | 6270.5 |
| 50° | 7516.0 | 7181.7 | 6878.8 | 6895.3 | 7567.3 | 8073.0 | 6590.0 | 6234.9 | 6247.3 | 6503.1 | 7247.1 |
| 52.5° | 7359.6 | 6981.4 | 6662.0 | 6972.3 | 8302.2 | 9007.3 | 8283.2 | 7434.1 | 7722.1 | 7656.7 | 8557.1 |
| 55° | 6637.1 | 6308.6 | 6081.8 | 6637.1 | 8382.5 | 10012.8 | 10367.8 | 9239.0 | 9174.5 | 9025.5 | 9892.8 |
| 57.5° | 5421.4 | 5138.4 | 4998.5 | 5584.5 | 7504.4 | 10823.0 | 12461.6 | 11279.0 | 10728.7 | 10104.7 | 11001.8 |
| 60° | 4039.4 | 3830.8 | 3685.2 | 3994.7 | 5913.0 | 10036.0 | 13832.9 | 13201.4 | 12564.2 | 11144.9 | 11998.2 |
| 62.5° | 2991.7 | 2822.0 | 2667.3 | 2695.4 | 4071.7 | 8631.6 | 14359.2 | 15238.1 | 14872.3 | 12243.1 | 12938.3 |
| 65° | 2387.5 | 2232.8 | 2124.4 | 2062.3 | 2521.6 | 6494.0 | 13626.8 | 16907.3 | 17329.4 | 13277.6 | 13616.9 |
| 67.5° | 1949.8 | 1819.0 | 1765.2 | 1836.4 | 1977.9 | 3701.7 | 11670.4 | 17920.3 | 18532.7 | 14374.9 | 13784.1 |
| 70° | 1586.5 | 1478.9 | 1473.1 | 1665.1 | 1821.5 | 2256.8 | 8584.4 | 17221.0 | 17681.9 | 14562.0 | 12781.9 |
| 72.5° | 1105.6 | 1058.5 | 1133.8 | 1406.0 | 1804.9 | 1879.4 | 4929.9 | 14250.8 | 14267.4 | 12861.3 | 10513.5 |
| 75° | 625.6 | 618.2 | 737.4 | 1121.4 | 1757.8 | 1860.4 | 2748.4 | 10070.7 | 10078.2 | 9727.3 | 7283.5 |
| 77.5° | 344.3 | 321.9 | 429.5 | 758.1 | 1509.5 | 1817.4 | 1772.7 | 6876.3 | 6700.0 | 5413.2 | 3326.8 |
| 80° | 158.9 | 149.8 | 232.5 | 485.8 | 1104.0 | 1718.9 | 1420.9 | 3779.5 | 3407.9 | 1763.6 | 811.8 |
| 82.5° | 65.4 | 62.1 | 106.8 | 312.0 | 697.6 | 1384.5 | 1197.5 | 1676.7 | 1345.6 | 335.2 | 250.8 |
| 85° | 11.6 | 12.4 | 43.9 | 188.7 | 390.6 | 638.1 | 970.7 | 796.1 | 585.1 | 92.7 | 137.4 |
| 87.5° | 0.0 | 0.0 | 9.1 | 45.5 | 94.3 | 174.6 | 393.9 | 222.6 | 153.1 | 27.3 | 40.6 |
| 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° | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 | 1389.5 |
| 2.5° | 1697.4 | 1683.3 | 1540.9 | 1547.6 | 1557.5 | 1548.4 | 1546.7 | 1507.0 | 1470.6 | 1590.6 | 1588.9 |
| 5° | 2146.7 | 2046.6 | 1948.1 | 1910.0 | 1828.1 | 1720.5 | 1721.4 | 1687.4 | 1652.7 | 1701.5 | 1701.5 |
| 7.5° | 2467.0 | 2328.8 | 2203.8 | 1981.2 | 1764.4 | 1568.3 | 1550.9 | 1504.5 | 1451.6 | 1515.3 | 1527.7 |
| 10° | 2541.5 | 2421.5 | 2260.1 | 1933.2 | 1728.0 | 1536.8 | 1326.6 | 1153.6 | 1073.4 | 1036.1 | 1029.5 |
| 12.5° | 2770.7 | 2681.3 | 2320.5 | 1958.9 | 1663.4 | 1339.8 | 995.6 | 790.3 | 650.5 | 639.7 | 624.8 |
| 15° | 2923.8 | 2860.9 | 2380.1 | 1895.1 | 1390.3 | 963.3 | 625.6 | 480.0 | 423.7 | 418.8 | 411.3 |
| 17.5° | 3161.3 | 3052.1 | 2323.0 | 1692.4 | 1087.4 | 635.6 | 420.4 | 379.0 | 385.6 | 400.5 | 389.0 |
| 20° | 3258.2 | 3044.6 | 2198.9 | 1398.6 | 763.8 | 426.2 | 365.0 | 342.6 | 360.0 | 374.1 | 367.4 |
| 22.5° | 3357.5 | 3066.2 | 2088.8 | 1152.8 | 499.0 | 352.5 | 325.2 | 313.7 | 315.3 | 329.4 | 330.2 |
| 25° | 3356.6 | 3125.7 | 1961.3 | 897.9 | 371.6 | 313.7 | 293.8 | 278.9 | 273.1 | 283.0 | 280.5 |
| 27.5° | 3519.7 | 3057.1 | 1728.8 | 666.2 | 326.9 | 280.5 | 261.5 | 243.3 | 222.6 | 232.5 | 232.5 |
| 30° | 3520.5 | 3168.8 | 1566.6 | 478.3 | 299.6 | 249.9 | 233.4 | 205.2 | 181.2 | 189.5 | 190.3 |
| 32.5° | 3614.0 | 3072.0 | 1416.8 | 365.8 | 278.1 | 231.7 | 195.3 | 169.7 | 155.6 | 160.5 | 160.5 |
| 35° | 3720.8 | 3154.7 | 1186.7 | 322.8 | 256.5 | 206.1 | 167.2 | 146.5 | 135.7 | 139.9 | 139.9 |
| 37.5° | 4073.3 | 3137.3 | 1027.0 | 300.4 | 242.5 | 186.2 | 152.3 | 129.1 | 124.1 | 126.6 | 129.9 |
| 40° | 4200.8 | 3260.6 | 810.2 | 287.2 | 219.3 | 168.0 | 134.1 | 116.7 | 110.1 | 111.7 | 112.5 |
| 42.5° | 4525.2 | 3287.9 | 647.2 | 276.4 | 198.6 | 145.7 | 119.2 | 106.8 | 98.5 | 98.5 | 101.0 |
| 45° | 4883.5 | 3356.6 | 514.8 | 267.3 | 181.2 | 130.8 | 107.6 | 97.7 | 85.2 | 83.6 | 86.9 |
| 47.5° | 5402.4 | 3619.8 | 419.6 | 249.1 | 160.5 | 121.7 | 99.3 | 84.4 | 74.5 | 71.2 | 74.5 |
| 50° | 6270.5 | 4066.7 | 370.8 | 226.8 | 145.7 | 114.2 | 87.7 | 72.0 | 64.6 | 60.4 | 62.9 |
| 52.5° | 7495.3 | 4838.8 | 345.1 | 206.1 | 132.4 | 102.6 | 78.6 | 62.9 | 55.4 | 52.1 | 53.8 |
| 55° | 8855.9 | 5724.3 | 332.7 | 185.4 | 120.8 | 90.2 | 68.7 | 55.4 | 48.8 | 44.7 | 45.5 |
| 57.5° | 10113.8 | 6556.9 | 320.3 | 165.5 | 109.2 | 80.3 | 60.4 | 48.8 | 42.2 | 38.1 | 38.9 |
| 60° | 11353.5 | 7221.4 | 290.5 | 142.3 | 98.5 | 72.0 | 53.0 | 42.2 | 38.1 | 33.1 | 33.1 |
| 62.5° | 12450.0 | 7618.6 | 247.4 | 123.3 | 88.6 | 63.7 | 47.2 | 38.1 | 34.8 | 29.8 | 29.8 |
| 65° | 13196.5 | 7636.8 | 199.4 | 105.9 | 77.8 | 54.6 | 41.4 | 35.6 | 32.3 | 26.5 | 25.7 |
| 67.5° | 13207.2 | 7140.3 | 159.7 | 94.3 | 68.7 | 48.0 | 37.2 | 33.9 | 29.8 | 24.8 | 23.2 |
| 70° | 11821.1 | 5898.9 | 133.2 | 82.8 | 59.6 | 42.2 | 32.3 | 32.3 | 29.0 | 24.0 | 21.5 |
| 72.5° | 9455.8 | 4507.8 | 111.7 | 72.0 | 53.0 | 36.4 | 29.8 | 30.6 | 28.1 | 24.0 | 21.5 |
| 75° | 6355.8 | 2585.3 | 92.7 | 61.2 | 46.3 | 30.6 | 29.0 | 29.8 | 29.0 | 24.0 | 20.7 |
| 77.5° | 2927.1 | 823.4 | 72.0 | 50.5 | 39.7 | 25.7 | 28.1 | 28.1 | 26.5 | 21.5 | 18.2 |
| 80° | 659.6 | 202.8 | 52.1 | 37.2 | 32.3 | 19.0 | 25.7 | 23.2 | 20.7 | 14.9 | 10.8 |
| 82.5° | 240.0 | 62.1 | 31.4 | 23.2 | 19.9 | 7.4 | 16.6 | 16.6 | 14.9 | 10.8 | 6.6 |
| 85° | 137.4 | 32.3 | 17.4 | 14.9 | 10.8 | 3.3 | 9.1 | 9.9 | 8.3 | 7.4 | 3.3 |
| 87.5° | 44.7 | 7.4 | 8.3 | 9.1 | 8.3 | 1.7 | 3.3 | 3.3 | 2.5 | 1.7 | 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)