

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: P368277

Luminaire Tested: **PMM-SA4A-760-U-SL3-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-19)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4A-760-U-SL3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12731 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

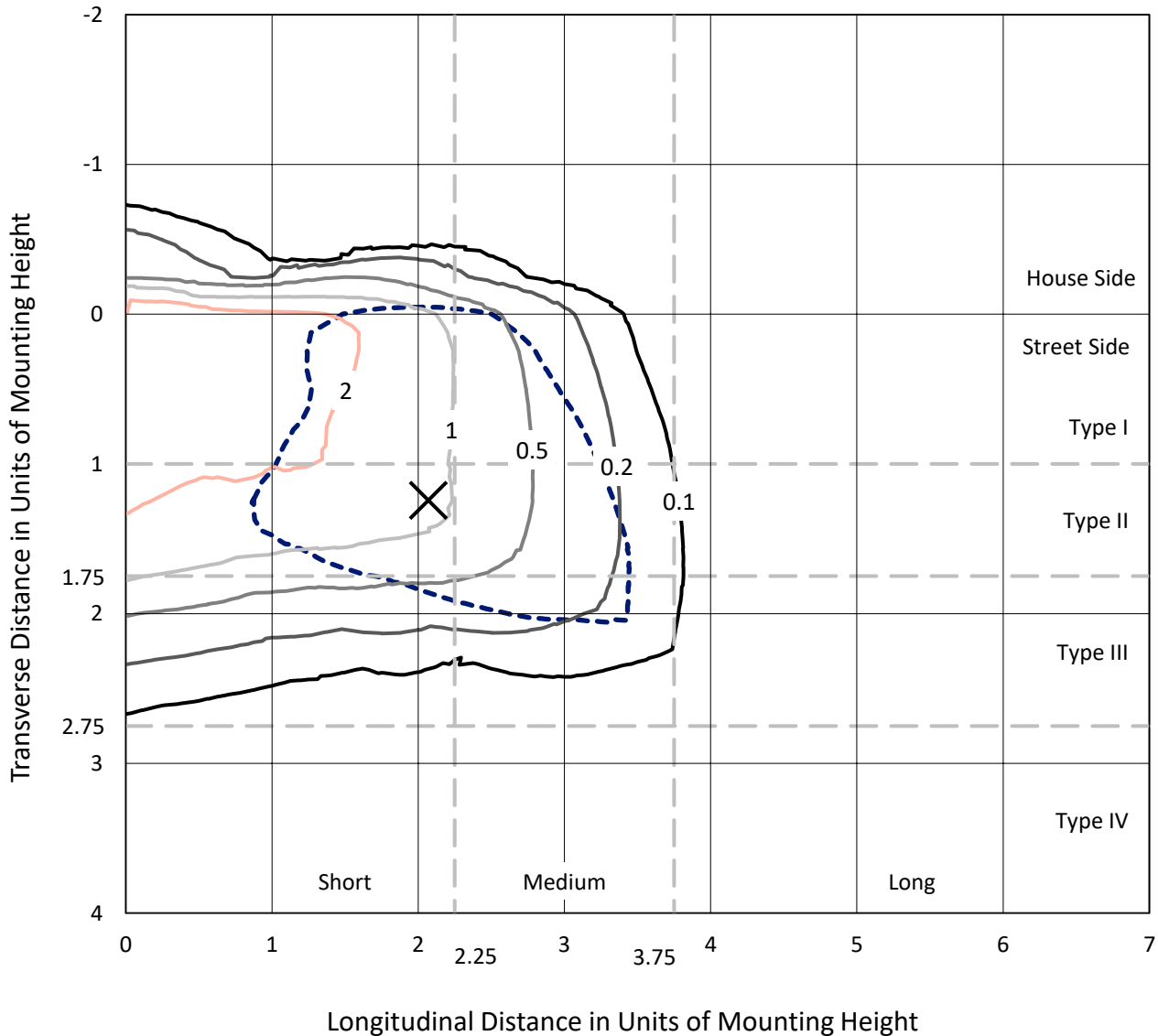
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

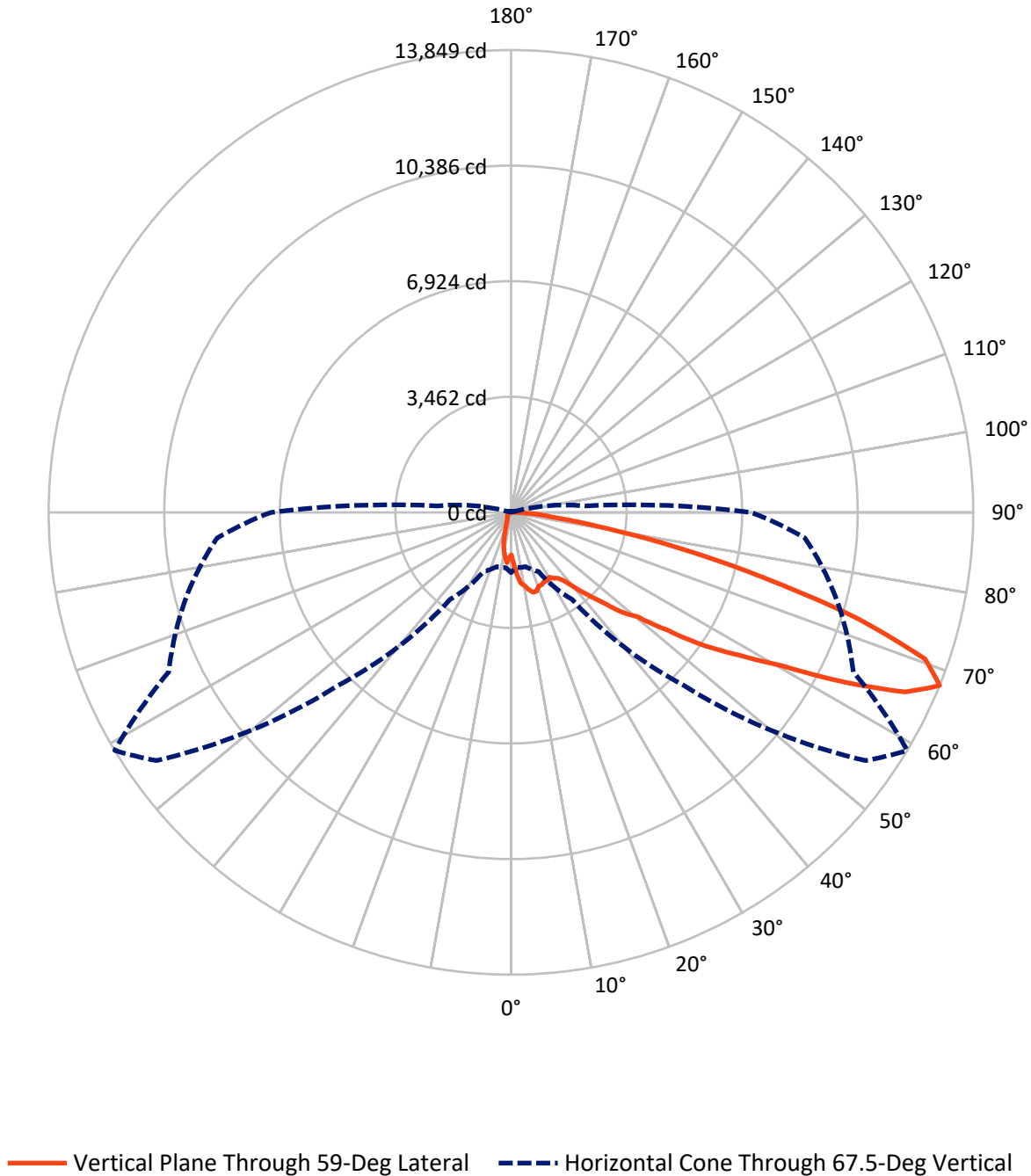
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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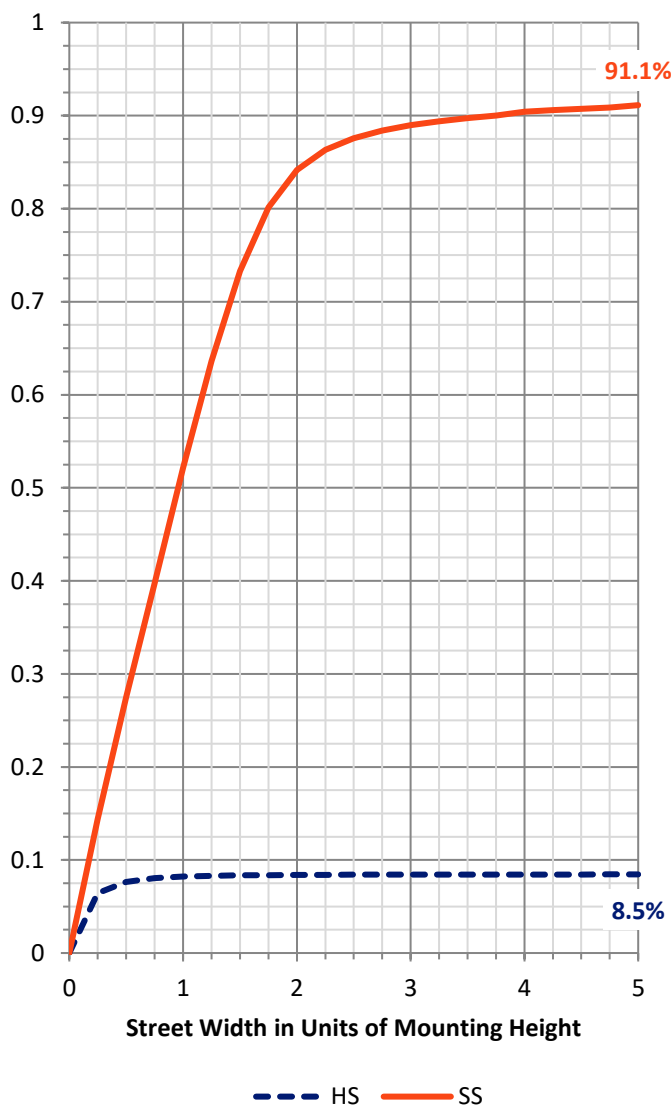
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1082.7 | 0.0 | 1082.7 |
| | % Fixture | 8.5 | 0.0 | 8.5 |
| Street Side | Lumens | 11648.3 | 0.0 | 11648.3 |
| | % Fixture | 91.5 | 0.0 | 91.5 |
| Total | Lumens | 12731.0 | 0.0 | 12731.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 154.9 | 1.2 |
| 10°-20° | 436.1 | 3.4 |
| 20°-30° | 648.7 | 5.1 |
| 30°-40° | 1000.7 | 7.9 |
| 40°-50° | 1786.0 | 14.0 |
| 50°-60° | 3178.2 | 25.0 |
| 60°-70° | 3701.5 | 29.1 |
| 70°-80° | 1646.1 | 12.9 |
| 80°-90° | 178.8 | 1.4 |
| 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° | 12731.0 | 100.0 |
| 0°-180° | 12731.0 | 100.0 |

Coefficient of Utilization



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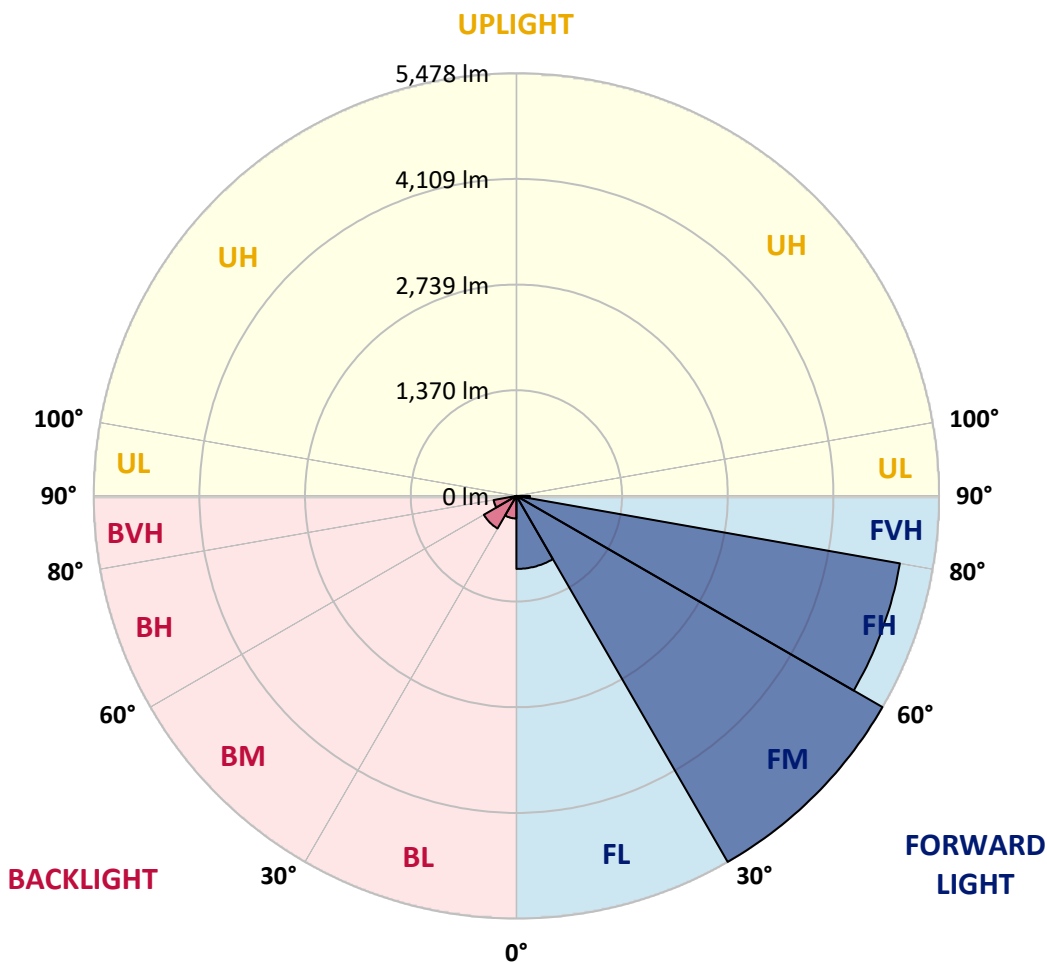
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 946.8 | 7.4 | | | |
| FM (30°-60°) | 5478.2 | 43.0 | | | |
| FH (60°-80°) | 5047.7 | 39.6 | | | G3/7500 |
| FVH (80°-90°) | 175.6 | 1.4 | | | G2/225 |
| BL (0°-30°) | 292.8 | 2.3 | B1/500 | | |
| BM (30°-60°) | 486.8 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 299.9 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.2 | 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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0° | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 |
| 2.5° | 1660.6 | 1598.0 | 1509.1 | 1535.5 | 1559.3 | 1581.9 | 1544.5 | 1523.2 | 1512.9 | 1421.4 | 1536.1 |
| 5° | 2038.9 | 1960.9 | 1920.3 | 1910.0 | 1884.2 | 1826.9 | 1922.3 | 1879.7 | 1893.9 | 1912.0 | 1949.3 |
| 7.5° | 2154.3 | 2118.9 | 2060.2 | 2082.1 | 1984.2 | 1975.8 | 2107.9 | 2144.7 | 2193.0 | 2160.1 | 2205.3 |
| 10° | 2095.0 | 2033.8 | 2061.5 | 2053.8 | 2049.9 | 2136.3 | 2229.1 | 2231.0 | 2303.2 | 2338.1 | 2185.3 |
| 12.5° | 1977.7 | 1984.8 | 2084.1 | 2076.3 | 2205.3 | 2378.0 | 2399.3 | 2376.7 | 2494.7 | 2434.1 | 2410.9 |
| 15° | 2055.7 | 2113.7 | 2058.9 | 2077.6 | 2123.4 | 2339.3 | 2414.8 | 2484.4 | 2595.9 | 2632.0 | 2475.4 |
| 17.5° | 2149.8 | 2155.6 | 2055.7 | 2032.5 | 2147.9 | 2248.4 | 2426.4 | 2483.7 | 2494.7 | 2811.2 | 2620.4 |
| 20° | 2098.9 | 2148.5 | 2029.3 | 1882.9 | 2062.2 | 2198.8 | 2379.3 | 2361.3 | 2434.7 | 2864.1 | 2653.3 |
| 22.5° | 2234.3 | 2163.4 | 2010.6 | 1900.4 | 1960.9 | 2085.4 | 2238.1 | 2356.1 | 2466.3 | 2737.7 | 2695.8 |
| 25° | 2247.2 | 2221.4 | 2085.4 | 1987.4 | 1977.1 | 2008.6 | 2221.4 | 2297.4 | 2470.2 | 2851.2 | 2659.7 |
| 27.5° | 2392.2 | 2362.5 | 2084.1 | 2093.7 | 1997.0 | 1899.7 | 2140.2 | 2318.7 | 2540.5 | 2782.2 | 2736.4 |
| 30° | 2579.1 | 2581.7 | 2222.7 | 2253.0 | 2115.0 | 1958.4 | 2206.5 | 2255.5 | 2588.2 | 2892.4 | 2793.2 |
| 32.5° | 2768.7 | 2846.7 | 2496.6 | 2336.1 | 2292.9 | 2180.8 | 2124.0 | 2350.3 | 2536.0 | 3080.7 | 2935.0 |
| 35° | 3056.8 | 3109.7 | 2722.2 | 2578.5 | 2409.0 | 2281.3 | 2348.4 | 2429.6 | 2723.5 | 3330.1 | 3121.3 |
| 37.5° | 3544.8 | 3449.4 | 3127.1 | 2877.0 | 2836.3 | 2648.1 | 2681.6 | 2608.8 | 2915.0 | 3624.1 | 3490.0 |
| 40° | 3819.4 | 3733.0 | 3397.8 | 3276.0 | 3016.8 | 3045.8 | 2940.1 | 2982.7 | 3192.8 | 3930.3 | 3825.8 |
| 42.5° | 4105.6 | 4023.1 | 3729.2 | 3642.8 | 3395.9 | 3276.0 | 3228.3 | 3381.1 | 3618.9 | 4440.2 | 4307.4 |
| 45° | 4393.1 | 4183.6 | 4059.2 | 4102.4 | 3991.5 | 3754.3 | 3698.9 | 3834.9 | 4084.3 | 5066.7 | 4815.3 |
| 47.5° | 4635.5 | 4458.9 | 4365.4 | 4345.4 | 4302.2 | 4631.6 | 4406.0 | 4466.0 | 4576.2 | 5621.1 | 5448.4 |
| 50° | 5072.5 | 4898.5 | 4752.2 | 4711.6 | 4921.7 | 5389.1 | 5041.0 | 4924.9 | 5145.4 | 6290.9 | 6181.9 |
| 52.5° | 5703.6 | 5481.9 | 5249.2 | 5249.8 | 5646.3 | 5902.8 | 6067.8 | 5864.1 | 5905.4 | 7027.7 | 6979.3 |
| 55° | 6211.0 | 5929.3 | 5736.5 | 5888.6 | 6479.8 | 6623.5 | 7253.3 | 7074.8 | 7021.2 | 7711.0 | 7651.7 |
| 57.5° | 6280.6 | 5942.8 | 5851.3 | 6118.1 | 6927.1 | 7845.1 | 8522.6 | 8076.5 | 7994.6 | 8282.8 | 8400.7 |
| 60° | 5630.8 | 5272.4 | 5341.4 | 5770.7 | 7072.8 | 8589.6 | 9688.1 | 9323.8 | 8803.6 | 8952.5 | 9033.8 |
| 62.5° | 4199.7 | 3913.5 | 4106.9 | 4675.5 | 6511.3 | 9088.6 | 11037.3 | 11206.1 | 9742.2 | 9455.3 | 9437.9 |
| 65° | 2724.8 | 2545.6 | 2672.6 | 3138.7 | 4927.5 | 9031.8 | 12242.7 | 12975.0 | 10481.6 | 9865.3 | 9564.9 |
| 67.5° | 1802.4 | 1666.4 | 1684.4 | 1960.3 | 3186.4 | 7345.5 | 12963.4 | 13848.5 | 11313.2 | 10098.0 | 8837.2 |
| 70° | 1343.4 | 1236.4 | 1242.8 | 1392.4 | 1891.3 | 4844.4 | 11958.4 | 13159.4 | 11616.8 | 9291.6 | 7132.8 |
| 72.5° | 968.9 | 897.3 | 957.3 | 1123.6 | 1507.1 | 2561.7 | 8913.2 | 10837.4 | 10129.6 | 7328.7 | 4805.7 |
| 75° | 671.1 | 624.0 | 722.0 | 939.9 | 1375.6 | 1590.3 | 5889.9 | 7801.2 | 7099.9 | 4598.1 | 2172.4 |
| 77.5° | 371.9 | 357.8 | 498.9 | 765.8 | 1248.6 | 1303.4 | 3608.0 | 5126.1 | 3938.0 | 1648.3 | 517.0 |
| 80° | 162.4 | 157.3 | 241.7 | 575.0 | 1049.4 | 1177.7 | 2031.2 | 2842.1 | 1549.0 | 293.9 | 167.0 |
| 82.5° | 69.6 | 67.0 | 103.1 | 346.2 | 762.6 | 985.0 | 1252.5 | 1367.9 | 533.1 | 90.9 | 94.8 |
| 85° | 12.2 | 13.5 | 41.3 | 182.4 | 464.1 | 500.2 | 907.0 | 809.6 | 268.2 | 43.2 | 67.7 |
| 87.5° | 0.0 | 0.0 | 6.4 | 35.5 | 87.0 | 143.1 | 393.2 | 283.6 | 50.9 | 14.2 | 11.6 |
| 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° | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 | 1273.8 |
| 2.5° | 1552.3 | 1516.2 | 1378.9 | 1361.4 | 1342.8 | 1315.0 | 1304.7 | 1245.4 | 1237.7 | 1313.7 | 1313.7 |
| 5° | 1931.9 | 1803.0 | 1672.2 | 1569.0 | 1476.8 | 1349.2 | 1313.1 | 1275.7 | 1245.4 | 1237.7 | 1261.5 |
| 7.5° | 2132.4 | 1975.1 | 1769.5 | 1507.1 | 1294.4 | 1109.4 | 1032.0 | 977.9 | 917.3 | 935.3 | 945.0 |
| 10° | 2121.5 | 1954.5 | 1692.1 | 1355.0 | 1119.1 | 914.7 | 718.1 | 603.4 | 539.6 | 508.0 | 504.1 |
| 12.5° | 2229.1 | 2071.8 | 1639.9 | 1233.8 | 932.8 | 650.4 | 451.9 | 370.0 | 323.0 | 323.6 | 319.7 |
| 15° | 2291.6 | 2120.2 | 1579.3 | 1080.4 | 656.9 | 418.4 | 313.3 | 295.2 | 288.8 | 295.9 | 292.0 |
| 17.5° | 2401.9 | 2171.1 | 1442.0 | 851.5 | 451.9 | 315.9 | 288.1 | 281.1 | 289.4 | 304.3 | 300.4 |
| 20° | 2393.5 | 2082.8 | 1246.7 | 600.1 | 333.9 | 284.3 | 272.7 | 261.7 | 279.1 | 294.6 | 292.0 |
| 22.5° | 2385.8 | 1996.4 | 1063.0 | 442.9 | 279.1 | 259.1 | 249.5 | 245.0 | 254.0 | 272.0 | 275.9 |
| 25° | 2317.4 | 1953.9 | 876.7 | 332.6 | 252.7 | 235.3 | 230.8 | 226.9 | 230.1 | 245.0 | 244.3 |
| 27.5° | 2401.2 | 1846.2 | 676.9 | 279.1 | 234.0 | 213.4 | 209.5 | 203.1 | 196.6 | 209.5 | 211.4 |
| 30° | 2383.8 | 1861.0 | 530.5 | 245.6 | 215.3 | 187.6 | 188.9 | 175.3 | 163.7 | 175.3 | 175.3 |
| 32.5° | 2447.0 | 1752.7 | 424.8 | 223.0 | 196.6 | 176.6 | 160.5 | 146.3 | 137.9 | 145.0 | 146.3 |
| 35° | 2539.2 | 1757.2 | 332.6 | 208.9 | 180.5 | 157.3 | 137.9 | 123.8 | 116.0 | 119.3 | 121.2 |
| 37.5° | 2847.9 | 1726.3 | 277.8 | 197.9 | 174.7 | 145.7 | 125.7 | 107.0 | 101.9 | 105.7 | 107.7 |
| 40° | 3049.1 | 1808.8 | 245.0 | 192.1 | 159.9 | 134.1 | 107.7 | 94.1 | 89.6 | 91.5 | 94.8 |
| 42.5° | 3428.1 | 1854.6 | 228.8 | 185.7 | 146.3 | 114.7 | 92.2 | 84.4 | 78.0 | 80.6 | 83.2 |
| 45° | 3833.6 | 1932.6 | 216.6 | 178.6 | 136.0 | 100.6 | 81.2 | 74.8 | 66.4 | 67.0 | 69.6 |
| 47.5° | 4331.9 | 2118.2 | 202.4 | 166.3 | 121.8 | 91.5 | 72.2 | 62.5 | 54.8 | 54.1 | 57.4 |
| 50° | 5001.0 | 2366.4 | 189.5 | 150.8 | 112.8 | 83.8 | 63.2 | 50.9 | 44.5 | 42.5 | 45.1 |
| 52.5° | 5715.2 | 2687.4 | 176.0 | 139.9 | 101.9 | 73.5 | 54.1 | 41.3 | 35.5 | 34.2 | 36.1 |
| 55° | 6423.0 | 2995.6 | 163.1 | 132.8 | 90.2 | 63.2 | 45.8 | 34.2 | 29.0 | 27.7 | 29.0 |
| 57.5° | 7229.5 | 3328.8 | 146.3 | 118.6 | 79.3 | 54.8 | 38.0 | 28.4 | 23.9 | 22.6 | 23.2 |
| 60° | 7836.7 | 3446.2 | 132.1 | 103.1 | 69.0 | 48.3 | 32.2 | 22.6 | 19.3 | 18.0 | 18.7 |
| 62.5° | 8124.8 | 3254.7 | 118.6 | 89.6 | 60.6 | 41.9 | 27.1 | 18.7 | 16.1 | 14.8 | 14.8 |
| 65° | 8050.1 | 2830.5 | 105.1 | 76.7 | 52.2 | 34.8 | 21.3 | 16.1 | 14.2 | 12.2 | 11.6 |
| 67.5° | 7186.3 | 2214.9 | 89.6 | 64.5 | 43.8 | 28.4 | 18.0 | 15.5 | 12.9 | 11.6 | 9.7 |
| 70° | 5699.1 | 1603.8 | 72.8 | 53.5 | 36.7 | 23.2 | 14.2 | 14.2 | 12.2 | 11.6 | 9.0 |
| 72.5° | 3735.6 | 1009.5 | 59.3 | 43.2 | 30.3 | 18.0 | 11.0 | 12.9 | 11.6 | 11.6 | 8.4 |
| 75° | 1618.7 | 361.0 | 47.7 | 34.8 | 25.1 | 12.2 | 9.7 | 11.6 | 12.2 | 11.6 | 9.7 |
| 77.5° | 379.0 | 112.2 | 37.4 | 27.7 | 20.6 | 8.4 | 9.7 | 11.6 | 12.2 | 11.0 | 8.4 |
| 80° | 142.5 | 47.7 | 24.5 | 18.0 | 16.1 | 5.2 | 8.4 | 7.1 | 6.4 | 4.5 | 1.3 |
| 82.5° | 86.4 | 20.0 | 12.9 | 9.0 | 7.7 | 1.3 | 3.9 | 2.6 | 1.3 | 1.3 | 0.0 |
| 85° | 61.2 | 9.7 | 7.1 | 6.4 | 3.9 | 0.0 | 0.6 | 0.0 | 0.0 | 0.6 | 0.0 |
| 87.5° | 8.4 | 2.6 | 3.2 | 3.2 | 2.6 | 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)