

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: P368321

Luminaire Tested: **PMM-SA4B-727-U-SL3-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368321
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-SA4B-727-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: 13343 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

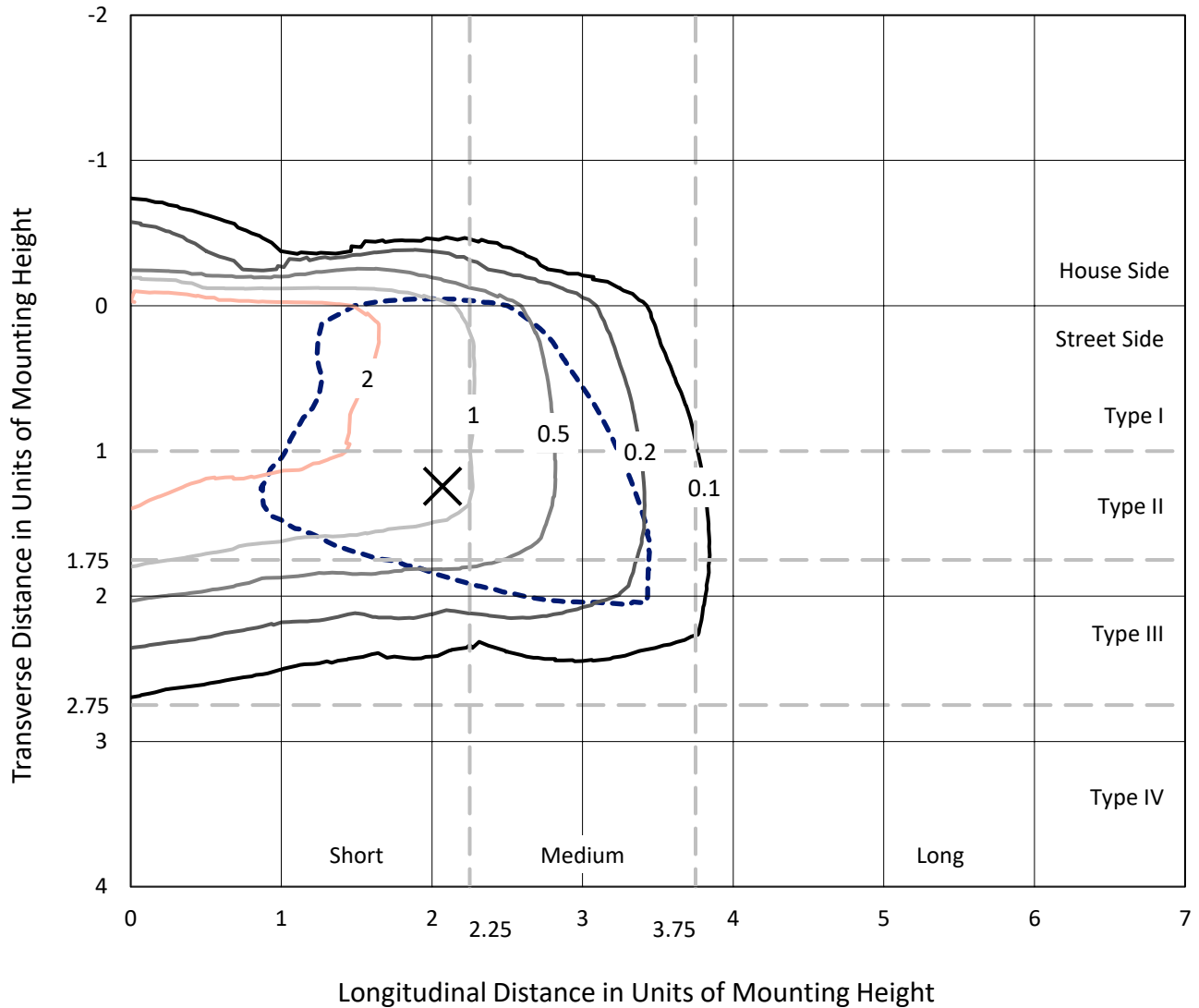
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

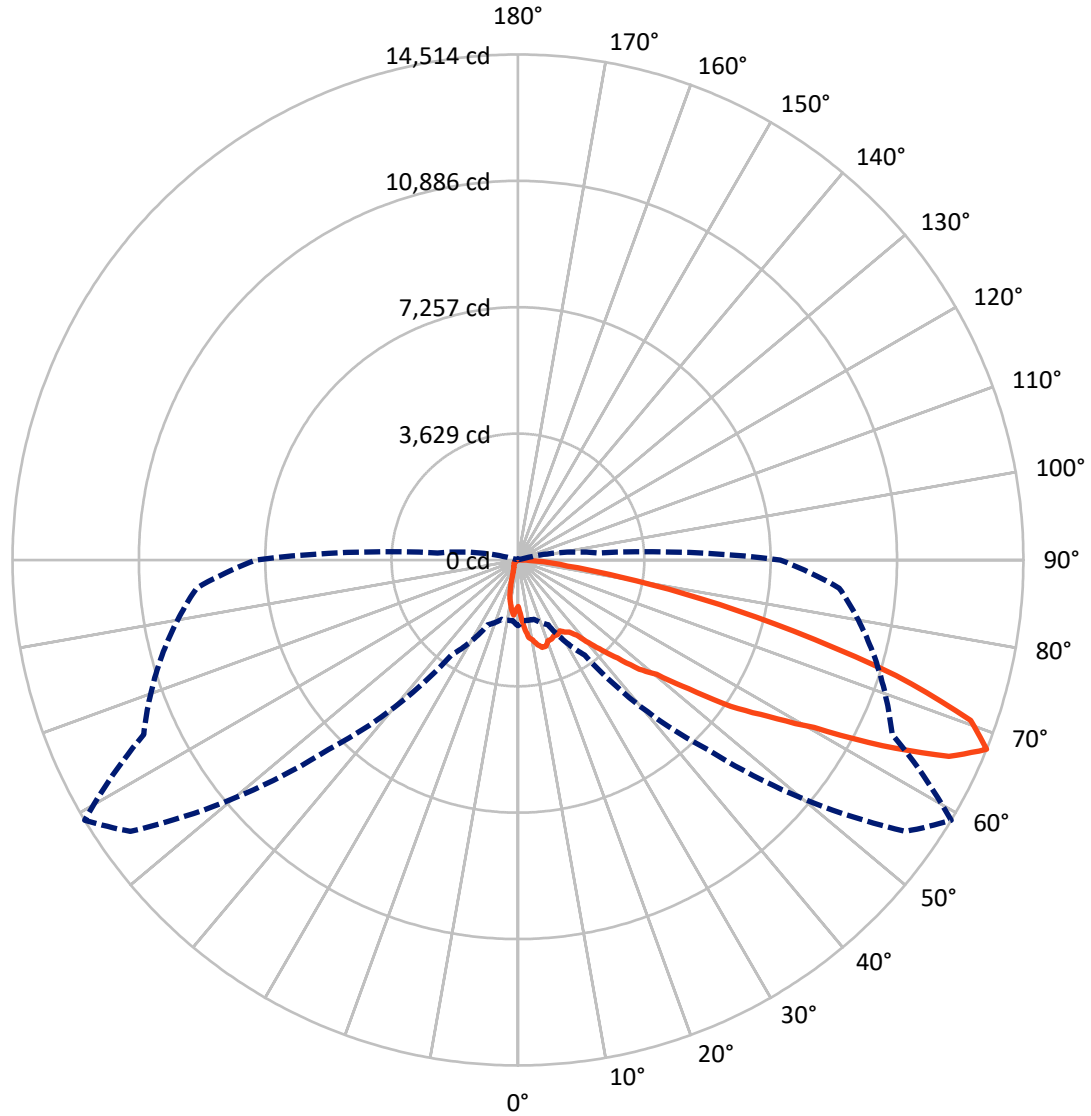
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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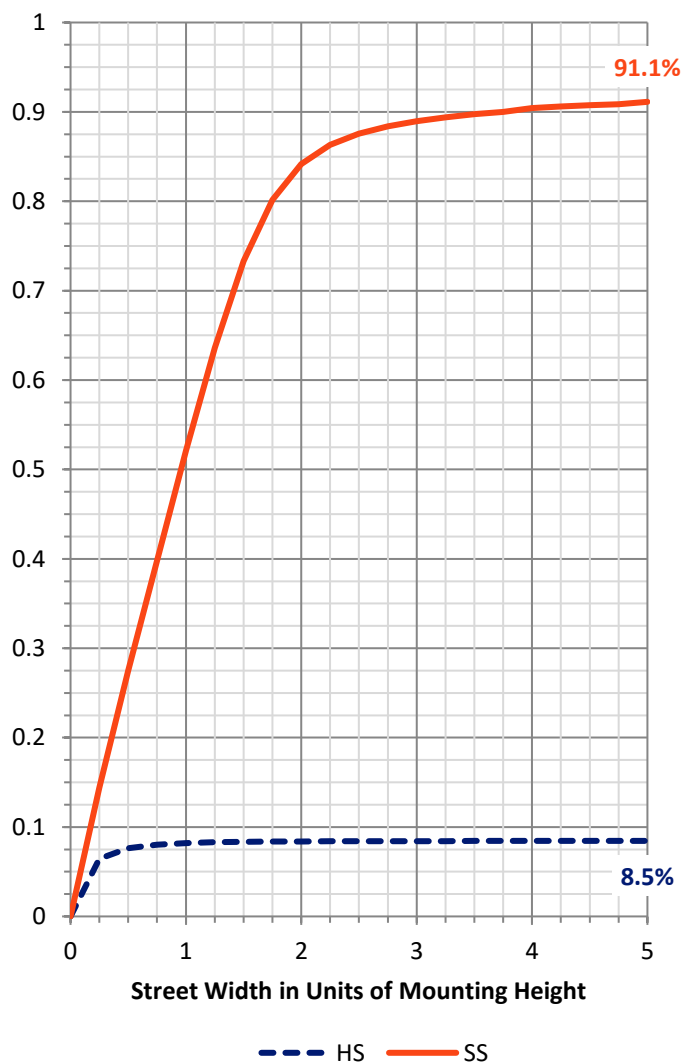
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1134.7 | 0.0 | 1134.7 |
| | % Fixture | 8.5 | 0.0 | 8.5 |
| Street Side | Lumens | 12208.3 | 0.0 | 12208.3 |
| | % Fixture | 91.5 | 0.0 | 91.5 |
| Total | Lumens | 13343.0 | 0.0 | 13343.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 162.3 | 1.2 |
| 10°-20° | 457.1 | 3.4 |
| 20°-30° | 679.8 | 5.1 |
| 30°-40° | 1048.9 | 7.9 |
| 40°-50° | 1871.8 | 14.0 |
| 50°-60° | 3331.0 | 25.0 |
| 60°-70° | 3879.5 | 29.1 |
| 70°-80° | 1725.3 | 12.9 |
| 80°-90° | 187.4 | 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° | 13343.0 | 100.0 |
| 0°-180° | 13343.0 | 100.0 |

Coefficient of Utilization



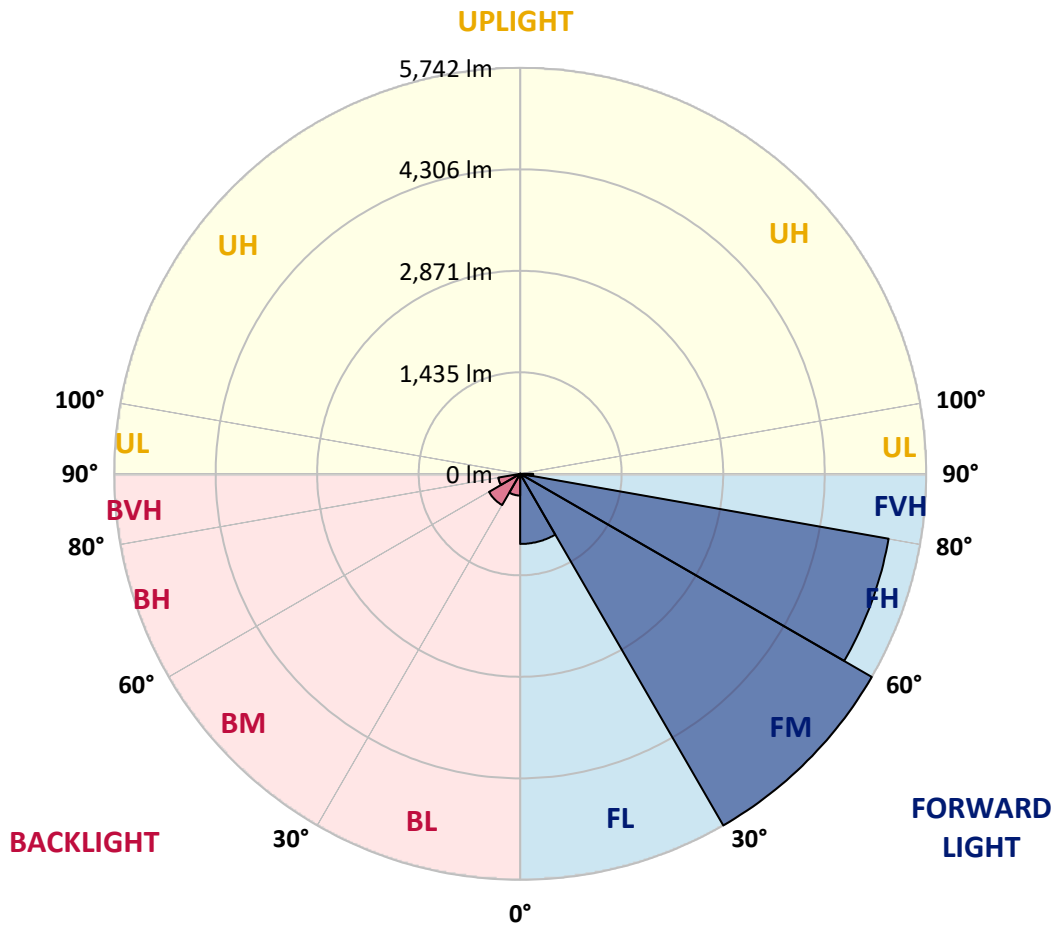
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 992.3 | 7.4 | | | |
| FM (30°-60°) | 5741.5 | 43.0 | | | |
| FH (60°-80°) | 5290.4 | 39.6 | | | G3/7500 |
| FVH (80°-90°) | 184.0 | 1.4 | | | G2/225 |
| BL (0°-30°) | 306.9 | 2.3 | B1/500 | | |
| BM (30°-60°) | 510.2 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 314.3 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.3 | 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° | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 |
| 2.5° | 1740.4 | 1674.8 | 1581.6 | 1609.3 | 1634.3 | 1658.0 | 1618.8 | 1596.5 | 1585.7 | 1489.7 | 1610.0 |
| 5° | 2137.0 | 2055.2 | 2012.6 | 2001.8 | 1974.8 | 1914.7 | 2014.7 | 1970.1 | 1984.9 | 2003.9 | 2043.1 |
| 7.5° | 2257.9 | 2220.7 | 2159.3 | 2182.2 | 2079.5 | 2070.8 | 2209.3 | 2247.8 | 2298.4 | 2264.0 | 2311.3 |
| 10° | 2195.7 | 2131.6 | 2160.6 | 2152.5 | 2148.4 | 2239.0 | 2336.3 | 2338.3 | 2414.0 | 2450.4 | 2290.3 |
| 12.5° | 2072.8 | 2080.2 | 2184.3 | 2176.1 | 2311.3 | 2492.3 | 2514.6 | 2491.0 | 2614.6 | 2551.1 | 2526.8 |
| 15° | 2154.5 | 2215.3 | 2157.9 | 2177.5 | 2225.5 | 2451.8 | 2530.8 | 2603.8 | 2720.7 | 2758.5 | 2594.4 |
| 17.5° | 2253.2 | 2259.2 | 2154.5 | 2130.2 | 2251.1 | 2356.5 | 2543.0 | 2603.1 | 2614.6 | 2946.3 | 2746.4 |
| 20° | 2199.8 | 2251.8 | 2126.8 | 1973.5 | 2161.3 | 2304.5 | 2493.7 | 2474.8 | 2551.8 | 3001.7 | 2780.8 |
| 22.5° | 2341.7 | 2267.4 | 2107.2 | 1991.7 | 2055.2 | 2185.6 | 2345.7 | 2469.4 | 2584.9 | 2869.3 | 2825.4 |
| 25° | 2355.2 | 2328.2 | 2185.6 | 2082.9 | 2072.1 | 2105.2 | 2328.2 | 2407.9 | 2588.9 | 2988.2 | 2787.6 |
| 27.5° | 2507.2 | 2476.1 | 2184.3 | 2194.4 | 2093.0 | 1991.0 | 2243.0 | 2430.2 | 2662.6 | 2915.9 | 2868.0 |
| 30° | 2703.1 | 2705.8 | 2329.5 | 2361.3 | 2216.7 | 2052.5 | 2312.6 | 2364.0 | 2712.6 | 3031.5 | 2927.4 |
| 32.5° | 2901.8 | 2983.5 | 2616.6 | 2448.4 | 2403.2 | 2285.6 | 2226.1 | 2463.3 | 2657.9 | 3228.8 | 3076.1 |
| 35° | 3203.8 | 3259.2 | 2853.1 | 2702.4 | 2524.8 | 2391.0 | 2461.3 | 2546.4 | 2854.5 | 3490.2 | 3271.3 |
| 37.5° | 3715.2 | 3615.2 | 3277.4 | 3015.3 | 2972.7 | 2775.4 | 2810.5 | 2734.2 | 3055.1 | 3798.3 | 3657.8 |
| 40° | 4003.0 | 3912.5 | 3561.2 | 3433.5 | 3161.9 | 3192.3 | 3081.5 | 3126.1 | 3346.3 | 4119.2 | 4009.8 |
| 42.5° | 4303.0 | 4216.5 | 3908.4 | 3817.9 | 3559.1 | 3433.5 | 3383.5 | 3543.6 | 3792.9 | 4653.6 | 4514.4 |
| 45° | 4604.3 | 4384.7 | 4254.3 | 4299.6 | 4183.4 | 3934.8 | 3876.7 | 4019.2 | 4280.7 | 5310.3 | 5046.8 |
| 47.5° | 4858.3 | 4673.2 | 4575.2 | 4554.3 | 4509.0 | 4854.3 | 4617.8 | 4680.6 | 4796.2 | 5891.3 | 5710.3 |
| 50° | 5316.4 | 5134.0 | 4980.6 | 4938.1 | 5158.3 | 5648.1 | 5283.3 | 5161.7 | 5392.7 | 6593.3 | 6479.1 |
| 52.5° | 5977.8 | 5745.4 | 5501.5 | 5502.2 | 5917.7 | 6186.6 | 6359.5 | 6146.0 | 6189.3 | 7365.5 | 7314.9 |
| 55° | 6509.5 | 6214.3 | 6012.3 | 6171.7 | 6791.3 | 6941.9 | 7602.0 | 7414.8 | 7358.8 | 8081.7 | 8019.5 |
| 57.5° | 6582.5 | 6228.5 | 6132.5 | 6412.2 | 7260.1 | 8222.2 | 8932.3 | 8464.7 | 8378.9 | 8680.9 | 8804.6 |
| 60° | 5901.5 | 5525.8 | 5598.1 | 6048.1 | 7412.8 | 9002.5 | 10153.8 | 9772.1 | 9226.8 | 9382.9 | 9468.0 |
| 62.5° | 4401.6 | 4101.6 | 4304.3 | 4900.2 | 6824.4 | 9525.5 | 11567.8 | 11744.8 | 10210.5 | 9909.9 | 9891.6 |
| 65° | 2855.8 | 2668.0 | 2801.1 | 3289.6 | 5164.4 | 9466.0 | 12831.2 | 13598.7 | 10985.5 | 10339.6 | 10024.7 |
| 67.5° | 1889.0 | 1746.5 | 1765.4 | 2054.5 | 3339.6 | 7698.6 | 13586.6 | 14514.2 | 11857.0 | 10583.5 | 9262.0 |
| 70° | 1408.0 | 1295.8 | 1302.6 | 1459.3 | 1982.2 | 5077.2 | 12533.3 | 13791.9 | 12175.2 | 9738.3 | 7475.7 |
| 72.5° | 1015.4 | 940.5 | 1003.3 | 1177.6 | 1579.6 | 2684.9 | 9341.7 | 11358.4 | 10616.6 | 7681.0 | 5036.7 |
| 75° | 703.3 | 654.0 | 756.7 | 985.0 | 1441.8 | 1666.7 | 6173.1 | 8176.3 | 7441.2 | 4819.1 | 2276.8 |
| 77.5° | 389.8 | 375.0 | 522.9 | 802.6 | 1308.7 | 1366.1 | 3781.4 | 5372.5 | 4127.3 | 1727.5 | 541.8 |
| 80° | 170.3 | 164.8 | 253.4 | 602.6 | 1099.9 | 1234.3 | 2128.9 | 2978.8 | 1623.5 | 308.1 | 175.0 |
| 82.5° | 73.0 | 70.3 | 108.1 | 362.8 | 799.2 | 1032.3 | 1312.7 | 1433.6 | 558.7 | 95.3 | 99.3 |
| 85° | 12.8 | 14.2 | 43.2 | 191.2 | 486.4 | 524.3 | 950.6 | 848.6 | 281.1 | 45.3 | 70.9 |
| 87.5° | 0.0 | 0.0 | 6.8 | 37.2 | 91.2 | 150.0 | 412.1 | 297.3 | 53.4 | 14.9 | 12.2 |
| 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° | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 |
| 2.5° | 1626.9 | 1589.0 | 1445.1 | 1426.9 | 1407.3 | 1378.2 | 1367.4 | 1305.3 | 1297.2 | 1376.9 | 1376.9 |
| 5° | 2024.8 | 1889.7 | 1752.5 | 1644.4 | 1547.8 | 1414.1 | 1376.2 | 1337.0 | 1305.3 | 1297.2 | 1322.2 |
| 7.5° | 2234.9 | 2070.1 | 1854.6 | 1579.6 | 1356.6 | 1162.7 | 1081.7 | 1024.9 | 961.4 | 980.3 | 990.4 |
| 10° | 2223.4 | 2048.5 | 1773.5 | 1420.1 | 1172.9 | 958.7 | 752.6 | 632.4 | 565.5 | 532.4 | 528.3 |
| 12.5° | 2336.3 | 2171.4 | 1718.8 | 1293.1 | 977.6 | 681.7 | 473.6 | 387.8 | 338.5 | 339.2 | 335.1 |
| 15° | 2401.8 | 2222.1 | 1655.3 | 1132.3 | 688.4 | 438.5 | 328.3 | 309.4 | 302.7 | 310.1 | 306.1 |
| 17.5° | 2517.3 | 2275.5 | 1511.3 | 892.5 | 473.6 | 331.1 | 302.0 | 294.6 | 303.3 | 318.9 | 314.8 |
| 20° | 2508.5 | 2182.9 | 1306.6 | 629.0 | 350.0 | 297.9 | 285.8 | 274.3 | 292.5 | 308.8 | 306.1 |
| 22.5° | 2500.4 | 2092.4 | 1114.1 | 464.1 | 292.5 | 271.6 | 261.5 | 256.7 | 266.2 | 285.1 | 289.2 |
| 25° | 2428.8 | 2047.8 | 918.8 | 348.6 | 264.8 | 246.6 | 241.9 | 237.8 | 241.2 | 256.7 | 256.1 |
| 27.5° | 2516.7 | 1935.0 | 709.4 | 292.5 | 245.2 | 223.6 | 219.6 | 212.8 | 206.1 | 219.6 | 221.6 |
| 30° | 2498.4 | 1950.5 | 556.0 | 257.4 | 225.7 | 196.6 | 198.0 | 183.8 | 171.6 | 183.8 | 183.8 |
| 32.5° | 2564.6 | 1837.0 | 445.2 | 233.8 | 206.1 | 185.1 | 168.2 | 153.4 | 144.6 | 152.0 | 153.4 |
| 35° | 2661.2 | 1841.7 | 348.6 | 218.9 | 189.2 | 164.8 | 144.6 | 129.7 | 121.6 | 125.0 | 127.0 |
| 37.5° | 2984.9 | 1809.3 | 291.2 | 207.4 | 183.1 | 152.7 | 131.7 | 112.2 | 106.7 | 110.8 | 112.8 |
| 40° | 3195.6 | 1895.8 | 256.7 | 201.3 | 167.6 | 140.5 | 112.8 | 98.6 | 93.9 | 95.9 | 99.3 |
| 42.5° | 3592.9 | 1943.7 | 239.8 | 194.6 | 153.4 | 120.3 | 96.6 | 88.5 | 81.7 | 84.5 | 87.2 |
| 45° | 4017.9 | 2025.5 | 227.0 | 187.1 | 142.6 | 105.4 | 85.1 | 78.4 | 69.6 | 70.3 | 73.0 |
| 47.5° | 4540.1 | 2220.1 | 212.1 | 174.3 | 127.7 | 95.9 | 75.7 | 65.5 | 57.4 | 56.8 | 60.1 |
| 50° | 5241.4 | 2480.2 | 198.6 | 158.1 | 118.2 | 87.8 | 66.2 | 53.4 | 46.6 | 44.6 | 47.3 |
| 52.5° | 5990.0 | 2816.6 | 184.4 | 146.6 | 106.7 | 77.0 | 56.8 | 43.2 | 37.2 | 35.8 | 37.8 |
| 55° | 6731.8 | 3139.6 | 170.9 | 139.2 | 94.6 | 66.2 | 48.0 | 35.8 | 30.4 | 29.1 | 30.4 |
| 57.5° | 7577.0 | 3488.9 | 153.4 | 124.3 | 83.1 | 57.4 | 39.9 | 29.7 | 25.0 | 23.6 | 24.3 |
| 60° | 8213.4 | 3611.8 | 138.5 | 108.1 | 72.3 | 50.7 | 33.8 | 23.6 | 20.3 | 18.9 | 19.6 |
| 62.5° | 8515.4 | 3411.2 | 124.3 | 93.9 | 63.5 | 43.9 | 28.4 | 19.6 | 16.9 | 15.5 | 15.5 |
| 65° | 8437.0 | 2966.6 | 110.1 | 80.4 | 54.7 | 36.5 | 22.3 | 16.9 | 14.9 | 12.8 | 12.2 |
| 67.5° | 7531.7 | 2321.4 | 93.9 | 67.6 | 45.9 | 29.7 | 18.9 | 16.2 | 13.5 | 12.2 | 10.1 |
| 70° | 5973.1 | 1680.9 | 76.3 | 56.1 | 38.5 | 24.3 | 14.9 | 14.9 | 12.8 | 12.2 | 9.5 |
| 72.5° | 3915.2 | 1058.0 | 62.2 | 45.3 | 31.8 | 18.9 | 11.5 | 13.5 | 12.2 | 12.2 | 8.8 |
| 75° | 1696.5 | 378.3 | 50.0 | 36.5 | 26.3 | 12.8 | 10.1 | 12.2 | 12.8 | 12.2 | 10.1 |
| 77.5° | 397.3 | 117.6 | 39.2 | 29.1 | 21.6 | 8.8 | 10.1 | 12.2 | 12.8 | 11.5 | 8.8 |
| 80° | 149.3 | 50.0 | 25.7 | 18.9 | 16.9 | 5.4 | 8.8 | 7.4 | 6.8 | 4.7 | 1.4 |
| 82.5° | 90.5 | 20.9 | 13.5 | 9.5 | 8.1 | 1.4 | 4.1 | 2.7 | 1.4 | 1.4 | 0.0 |
| 85° | 64.2 | 10.1 | 7.4 | 6.8 | 4.1 | 0.0 | 0.7 | 0.0 | 0.0 | 0.7 | 0.0 |
| 87.5° | 8.8 | 2.7 | 3.4 | 3.4 | 2.7 | 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)