

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: P368456

Luminaire Tested: **PMM-SA4C-727-U-SL4**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-20)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4C-727-U-SL4
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19601 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

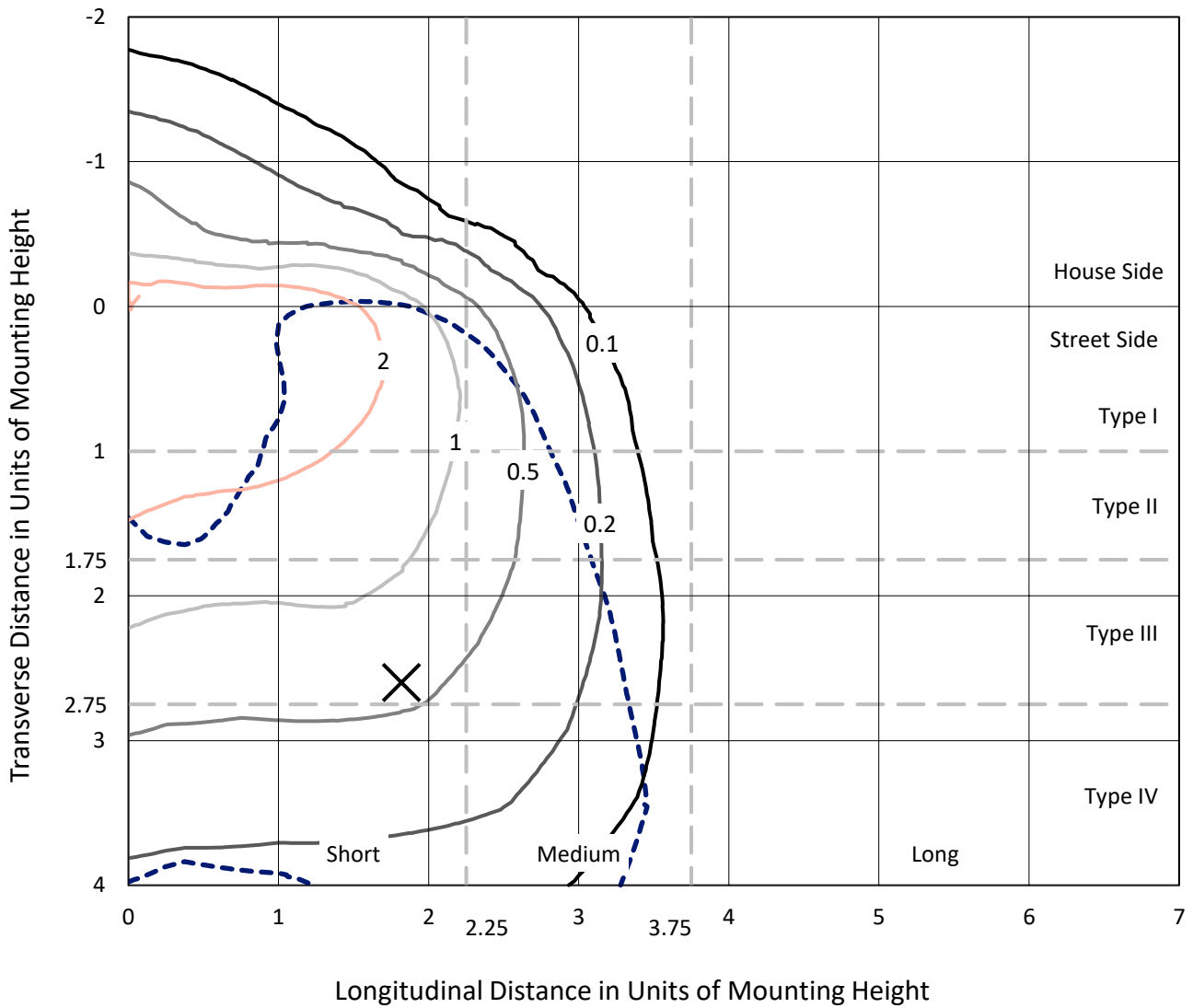
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

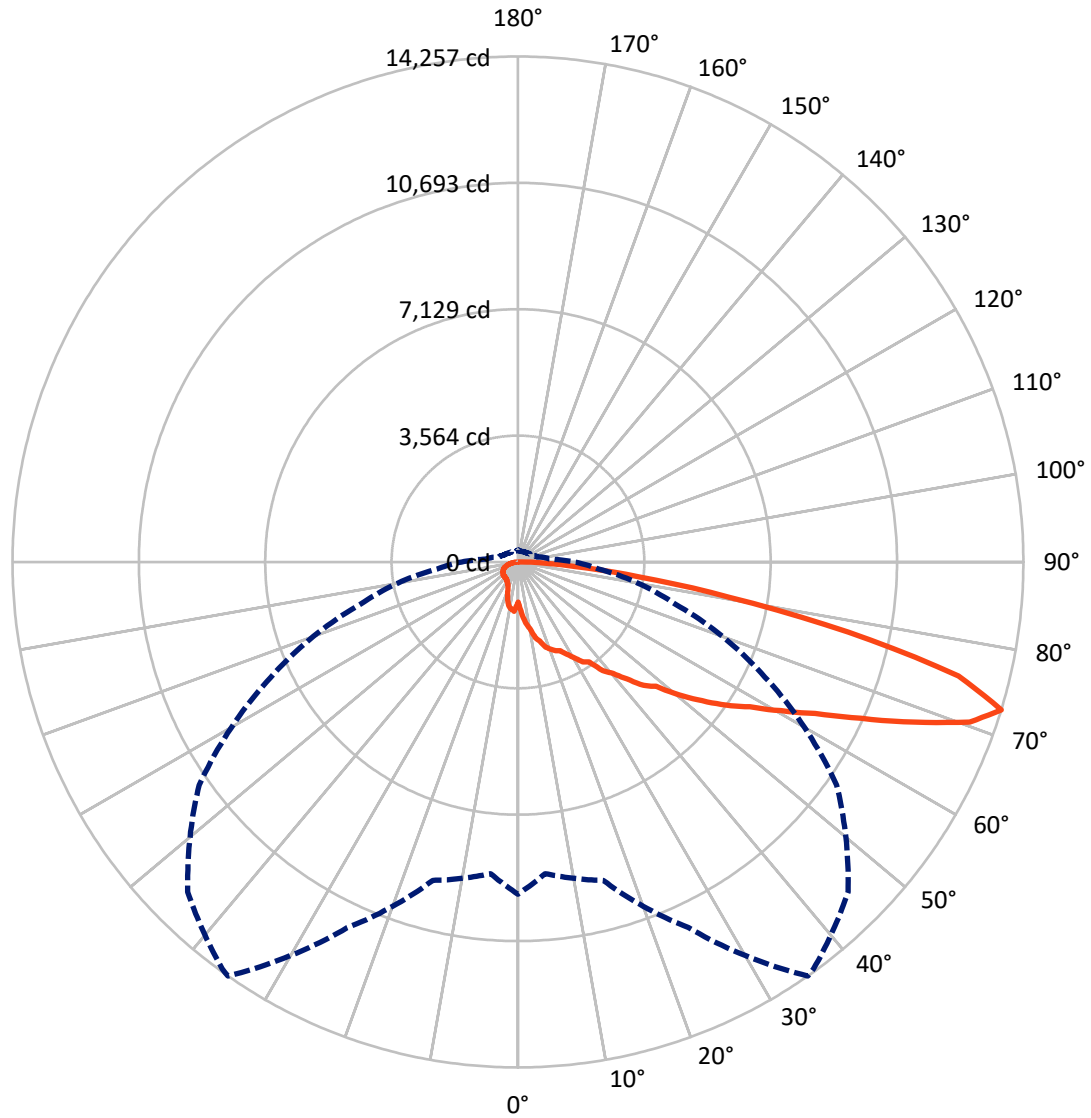
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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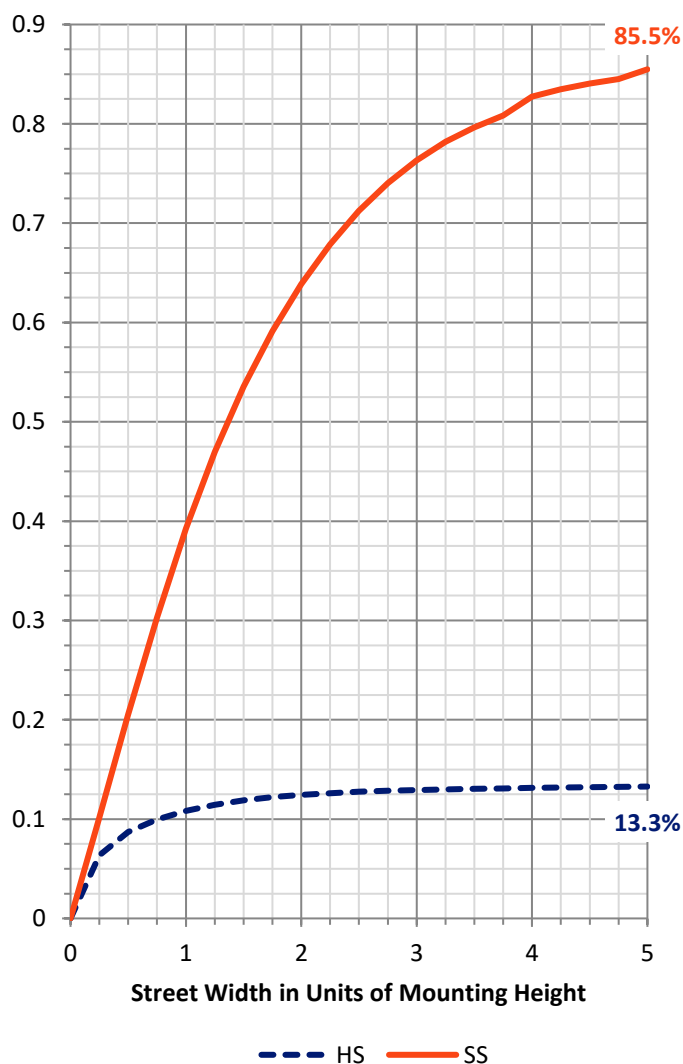
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2630.4 | 0.0 | 2630.4 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 16970.6 | 0.0 | 16970.6 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 19601.0 | 0.0 | 19601.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 150.6 | 0.8 |
| 10°-20° | 530.3 | 2.7 |
| 20°-30° | 921.4 | 4.7 |
| 30°-40° | 1540.0 | 7.9 |
| 40°-50° | 2672.9 | 13.6 |
| 50°-60° | 4040.8 | 20.6 |
| 60°-70° | 5234.8 | 26.7 |
| 70°-80° | 3862.7 | 19.7 |
| 80°-90° | 647.4 | 3.3 |
| 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° | 19601.0 | 100.0 |
| 0°-180° | 19601.0 | 100.0 |

Coefficient of Utilization

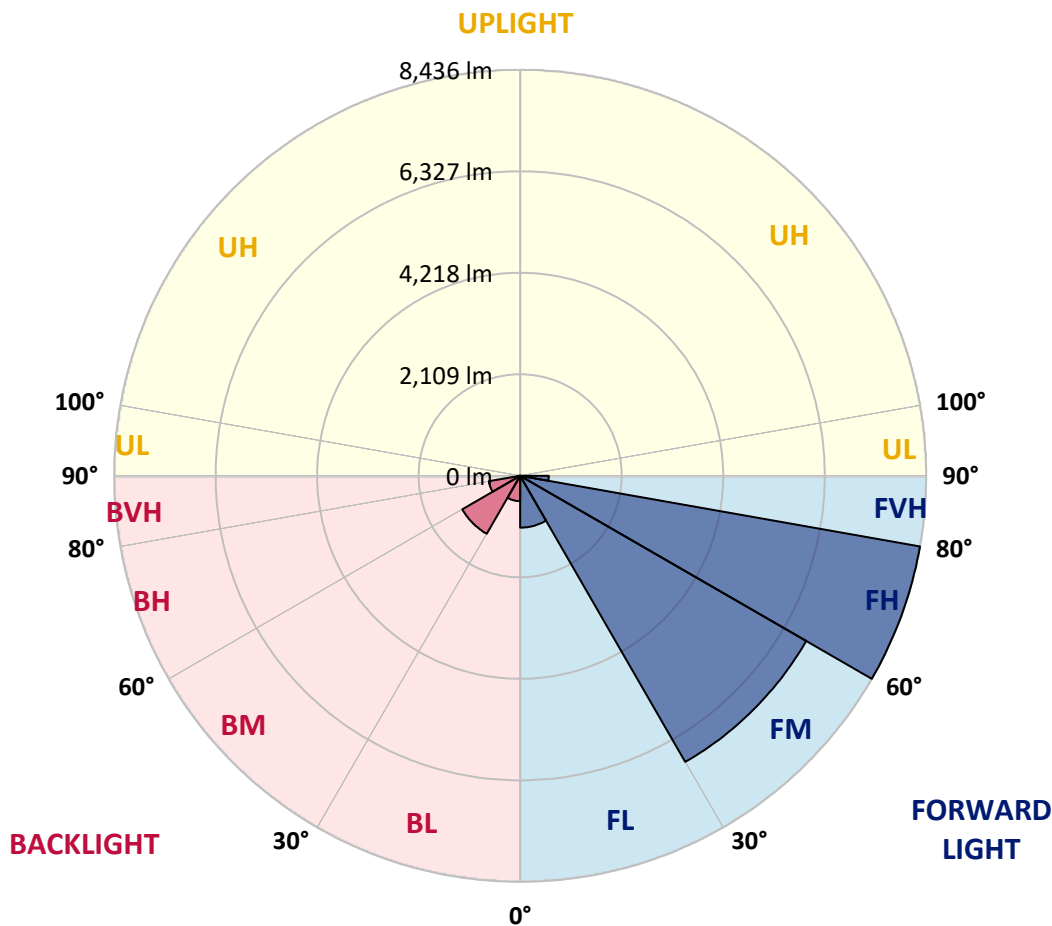


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1076.5 | 5.5 | | | |
| FM (30°-60°) | 6863.6 | 35.0 | | | |
| FH (60°-80°) | 8436.1 | 43.0 | | | G4/12000 |
| FVH (80°-90°) | 594.4 | 3.0 | | | G4/750 |
| BL (0°-30°) | 525.8 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 1390.2 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 661.4 | 3.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 53.0 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 |
| 2.5° | 1413.0 | 1345.2 | 1286.7 | 1284.2 | 1338.6 | 1359.5 | 1351.1 | 1332.7 | 1310.9 | 1264.9 | 1365.3 |
| 5° | 1770.2 | 1673.2 | 1654.8 | 1633.0 | 1583.7 | 1597.1 | 1516.7 | 1577.8 | 1597.1 | 1641.4 | 1708.3 |
| 7.5° | 1981.1 | 1924.2 | 1879.8 | 1861.4 | 1776.1 | 1766.1 | 1706.7 | 1793.7 | 1830.5 | 1824.6 | 1924.2 |
| 10° | 2063.9 | 2012.0 | 2015.4 | 1955.1 | 1927.5 | 1939.2 | 1945.9 | 1947.6 | 1970.2 | 1988.6 | 1938.4 |
| 12.5° | 2106.5 | 2126.6 | 2200.2 | 2159.3 | 2194.4 | 2208.6 | 2278.9 | 2206.9 | 2209.4 | 2114.9 | 2166.8 |
| 15° | 2321.6 | 2371.7 | 2329.1 | 2327.4 | 2316.5 | 2340.0 | 2400.2 | 2351.7 | 2389.3 | 2359.2 | 2292.3 |
| 17.5° | 2580.9 | 2596.0 | 2514.0 | 2480.5 | 2524.0 | 2516.5 | 2501.4 | 2508.9 | 2415.3 | 2589.3 | 2507.3 |
| 20° | 2660.4 | 2719.8 | 2611.9 | 2480.5 | 2624.4 | 2643.6 | 2640.3 | 2607.7 | 2447.0 | 2698.0 | 2618.5 |
| 22.5° | 2891.3 | 2811.0 | 2725.6 | 2642.0 | 2715.6 | 2726.5 | 2708.1 | 2630.3 | 2576.7 | 2672.1 | 2734.8 |
| 25° | 2995.8 | 2976.6 | 2867.8 | 2857.8 | 2776.7 | 2738.2 | 2770.0 | 2747.4 | 2694.7 | 2864.5 | 2795.1 |
| 27.5° | 3235.1 | 3212.5 | 2962.4 | 3065.3 | 2947.3 | 2937.3 | 2769.1 | 2844.4 | 2897.1 | 2884.6 | 2988.3 |
| 30° | 3506.2 | 3532.1 | 3166.5 | 3269.4 | 3133.1 | 3114.6 | 2945.7 | 3041.0 | 3077.0 | 3088.7 | 3218.4 |
| 32.5° | 3807.3 | 3878.5 | 3515.4 | 3430.9 | 3358.1 | 3370.6 | 3227.6 | 3053.6 | 3193.3 | 3466.9 | 3522.9 |
| 35° | 4133.6 | 4162.9 | 3782.2 | 3655.1 | 3465.2 | 3451.8 | 3454.3 | 3476.1 | 3617.4 | 3929.5 | 3973.0 |
| 37.5° | 4736.8 | 4601.3 | 4267.5 | 3945.4 | 3881.8 | 3757.2 | 3841.6 | 3908.6 | 4050.0 | 4528.5 | 4710.9 |
| 40° | 5108.3 | 5007.9 | 4499.2 | 4312.6 | 4137.0 | 4148.7 | 4306.8 | 4306.0 | 4639.8 | 5133.3 | 5411.9 |
| 42.5° | 5452.1 | 5342.5 | 4863.1 | 4675.7 | 4509.2 | 4550.2 | 4595.4 | 4674.9 | 5314.9 | 6110.5 | 6237.7 |
| 45° | 5729.0 | 5488.9 | 5144.2 | 5102.4 | 4965.2 | 4910.8 | 5102.4 | 5229.6 | 6122.2 | 6901.1 | 6974.7 |
| 47.5° | 5917.2 | 5719.8 | 5382.7 | 5345.8 | 5244.6 | 5377.6 | 5900.5 | 5982.5 | 6748.0 | 7695.0 | 7689.1 |
| 50° | 6203.4 | 5933.1 | 5628.6 | 5609.4 | 5894.7 | 5965.8 | 6603.2 | 6594.9 | 7357.0 | 8354.2 | 8216.2 |
| 52.5° | 6533.0 | 6192.5 | 5862.0 | 6068.7 | 6503.7 | 6538.8 | 7091.8 | 7316.9 | 8022.1 | 8990.1 | 8629.5 |
| 55° | 6912.0 | 6531.3 | 6211.7 | 6487.8 | 7135.3 | 7031.6 | 7591.3 | 8140.9 | 8854.5 | 9660.2 | 8928.1 |
| 57.5° | 7381.3 | 6919.5 | 6661.0 | 7080.9 | 7711.7 | 7803.8 | 8306.6 | 8998.4 | 9524.6 | 10076.8 | 9145.7 |
| 60° | 7876.5 | 7334.4 | 7097.7 | 7497.6 | 8519.1 | 8624.5 | 9116.4 | 9711.2 | 10275.9 | 10469.2 | 9104.7 |
| 62.5° | 8349.2 | 7762.8 | 7548.6 | 8042.2 | 9414.2 | 9675.2 | 10038.3 | 10417.3 | 10900.8 | 10564.5 | 8608.6 |
| 65° | 8875.4 | 8288.2 | 8153.5 | 8893.8 | 10628.1 | 10887.5 | 11361.8 | 11248.0 | 11115.0 | 10226.5 | 7787.9 |
| 67.5° | 9432.6 | 8836.1 | 8861.2 | 9881.9 | 12059.5 | 12103.9 | 12832.5 | 12076.3 | 10863.2 | 9331.4 | 6410.0 |
| 70° | 9732.1 | 9121.4 | 9379.9 | 10935.1 | 13516.0 | 13452.5 | 13601.4 | 12298.8 | 9836.7 | 7376.3 | 4418.1 |
| 72.5° | 9369.0 | 8824.4 | 9297.9 | 11378.5 | 14257.3 | 14188.7 | 13169.7 | 10977.8 | 7690.8 | 4587.1 | 2290.6 |
| 75° | 7932.6 | 7407.2 | 8131.7 | 10142.9 | 12835.0 | 12898.6 | 11207.9 | 8163.5 | 4403.0 | 1844.7 | 951.2 |
| 77.5° | 5390.2 | 5119.1 | 5739.9 | 7560.3 | 9533.8 | 9753.9 | 8315.8 | 4773.6 | 1848.9 | 763.8 | 575.6 |
| 80° | 2848.6 | 2719.8 | 3178.2 | 4355.3 | 6036.9 | 6200.8 | 4889.9 | 2377.6 | 947.0 | 494.4 | 410.8 |
| 82.5° | 1547.7 | 1493.3 | 1739.3 | 2239.6 | 3430.0 | 3573.1 | 2535.7 | 1579.5 | 638.3 | 309.5 | 251.0 |
| 85° | 1039.9 | 1019.0 | 1182.1 | 1203.0 | 1622.2 | 1669.0 | 1328.5 | 1216.4 | 383.2 | 151.4 | 165.6 |
| 87.5° | 520.4 | 499.4 | 622.4 | 549.6 | 619.1 | 619.9 | 609.0 | 776.4 | 97.0 | 50.2 | 30.1 |
| 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° | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 | 1132.8 |
| 2.5° | 1367.0 | 1337.7 | 1236.5 | 1235.7 | 1250.7 | 1240.7 | 1248.2 | 1207.2 | 1189.6 | 1270.0 | 1265.8 |
| 5° | 1699.1 | 1611.3 | 1526.8 | 1497.5 | 1463.2 | 1388.7 | 1392.9 | 1393.8 | 1381.2 | 1428.9 | 1432.3 |
| 7.5° | 1894.1 | 1788.6 | 1710.8 | 1555.2 | 1433.1 | 1337.7 | 1350.3 | 1364.5 | 1350.3 | 1413.8 | 1437.3 |
| 10° | 1922.5 | 1838.8 | 1746.0 | 1572.8 | 1491.6 | 1405.5 | 1318.5 | 1241.5 | 1232.3 | 1203.0 | 1212.2 |
| 12.5° | 2091.5 | 2022.1 | 1828.0 | 1638.1 | 1543.5 | 1411.3 | 1252.4 | 1164.5 | 1090.9 | 1103.5 | 1080.0 |
| 15° | 2230.4 | 2181.0 | 1948.4 | 1700.0 | 1474.1 | 1310.1 | 1141.1 | 1020.6 | 954.6 | 947.0 | 923.6 |
| 17.5° | 2418.6 | 2348.3 | 1959.3 | 1657.3 | 1384.6 | 1188.0 | 997.2 | 860.9 | 832.4 | 820.7 | 809.0 |
| 20° | 2508.9 | 2382.6 | 1920.0 | 1523.4 | 1280.0 | 1042.4 | 855.0 | 737.9 | 729.5 | 750.4 | 746.2 |
| 22.5° | 2587.6 | 2411.1 | 1884.8 | 1442.3 | 1116.9 | 895.2 | 758.0 | 681.0 | 671.8 | 698.6 | 703.6 |
| 25° | 2633.6 | 2492.2 | 1846.4 | 1359.5 | 1015.6 | 785.6 | 685.2 | 641.7 | 643.3 | 678.5 | 674.3 |
| 27.5° | 2841.1 | 2520.7 | 1749.3 | 1261.6 | 899.3 | 704.4 | 650.0 | 627.4 | 618.2 | 666.8 | 670.9 |
| 30° | 2971.6 | 2706.4 | 1727.6 | 1157.8 | 813.2 | 645.0 | 618.2 | 609.0 | 607.4 | 665.9 | 670.1 |
| 32.5° | 3214.2 | 2768.3 | 1737.6 | 1044.9 | 735.4 | 626.6 | 594.8 | 594.0 | 610.7 | 666.8 | 673.5 |
| 35° | 3550.5 | 3029.3 | 1689.1 | 980.5 | 692.7 | 598.2 | 576.4 | 583.1 | 611.6 | 672.6 | 681.8 |
| 37.5° | 4206.4 | 3275.3 | 1704.1 | 920.3 | 678.5 | 589.0 | 571.4 | 575.6 | 621.6 | 687.7 | 712.8 |
| 40° | 4725.9 | 3721.2 | 1680.7 | 890.1 | 659.2 | 587.3 | 560.5 | 577.3 | 620.8 | 696.0 | 718.6 |
| 42.5° | 5478.9 | 4076.7 | 1683.2 | 860.0 | 658.4 | 580.6 | 558.8 | 578.9 | 619.1 | 688.5 | 719.5 |
| 45° | 6124.7 | 4395.5 | 1719.2 | 842.5 | 650.0 | 591.5 | 556.3 | 581.4 | 608.2 | 661.7 | 696.0 |
| 47.5° | 6654.3 | 4751.0 | 1756.0 | 825.7 | 646.7 | 601.5 | 553.8 | 563.9 | 589.8 | 631.6 | 662.6 |
| 50° | 7086.0 | 5001.2 | 1802.9 | 822.4 | 646.7 | 596.5 | 547.1 | 546.3 | 568.0 | 601.5 | 630.8 |
| 52.5° | 7422.3 | 5177.7 | 1834.7 | 826.6 | 646.7 | 577.3 | 538.8 | 532.1 | 545.5 | 569.7 | 599.0 |
| 55° | 7665.7 | 5232.1 | 1808.7 | 837.4 | 645.9 | 559.7 | 523.7 | 517.9 | 524.5 | 541.3 | 568.9 |
| 57.5° | 7763.6 | 5089.0 | 1653.9 | 818.2 | 645.9 | 547.1 | 505.3 | 498.6 | 505.3 | 517.9 | 545.5 |
| 60° | 7518.5 | 4628.9 | 1430.6 | 768.8 | 633.3 | 530.4 | 484.4 | 480.2 | 490.2 | 501.1 | 527.9 |
| 62.5° | 6903.6 | 4017.3 | 1192.1 | 710.3 | 607.4 | 516.2 | 464.3 | 465.1 | 481.0 | 496.1 | 522.9 |
| 65° | 5948.2 | 3277.8 | 993.9 | 650.9 | 574.7 | 493.6 | 443.4 | 449.3 | 471.8 | 491.9 | 518.7 |
| 67.5° | 4680.8 | 2428.6 | 836.6 | 593.1 | 528.7 | 456.8 | 420.0 | 421.6 | 437.5 | 456.8 | 482.7 |
| 70° | 3128.9 | 1545.2 | 687.7 | 525.4 | 468.5 | 409.1 | 384.0 | 378.1 | 374.0 | 390.7 | 413.3 |
| 72.5° | 1587.0 | 912.7 | 564.7 | 449.3 | 403.2 | 357.2 | 338.0 | 322.9 | 311.2 | 321.3 | 338.8 |
| 75° | 831.6 | 638.3 | 455.9 | 373.1 | 333.0 | 303.7 | 289.5 | 269.4 | 261.0 | 266.9 | 279.4 |
| 77.5° | 588.1 | 499.4 | 368.9 | 295.3 | 271.1 | 240.9 | 243.4 | 222.5 | 215.8 | 219.2 | 232.6 |
| 80° | 451.8 | 395.7 | 283.6 | 223.4 | 209.1 | 179.9 | 188.2 | 175.7 | 167.3 | 165.6 | 175.7 |
| 82.5° | 307.9 | 297.8 | 201.6 | 156.4 | 146.4 | 125.5 | 137.2 | 132.2 | 121.3 | 114.6 | 119.6 |
| 85° | 207.5 | 197.4 | 123.0 | 90.4 | 86.2 | 65.3 | 83.7 | 80.3 | 71.1 | 61.1 | 61.9 |
| 87.5° | 36.0 | 66.1 | 35.1 | 22.6 | 20.9 | 7.5 | 19.2 | 18.4 | 16.7 | 8.4 | 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 |

(END OF REPORT)