

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: P368292

Luminaire Tested: **PMM-SA4A-760-U-T4W**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-14)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4A-760-U-T4W
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15719 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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

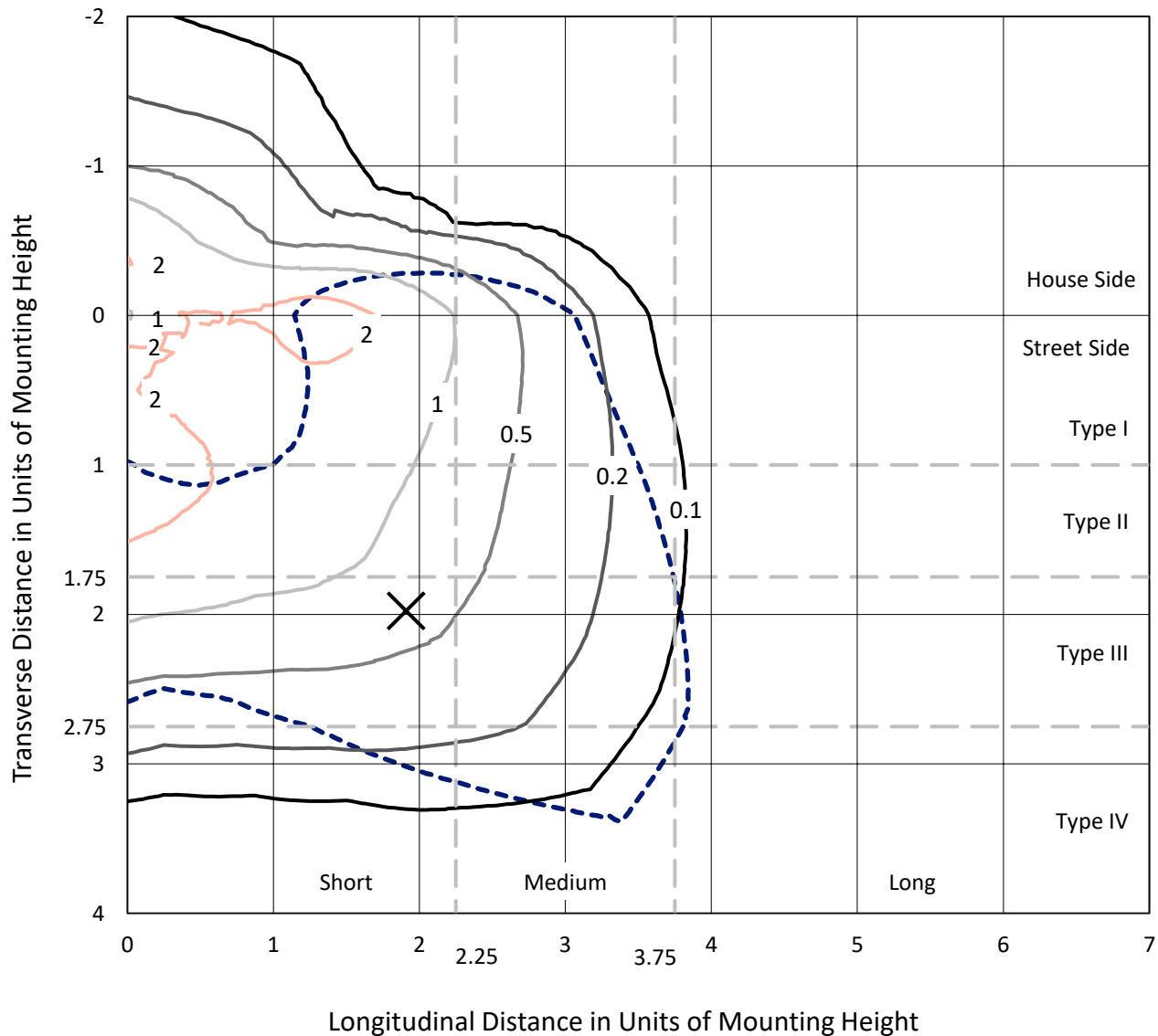


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Iso-Footcandle Lines of Horizontal Illumination

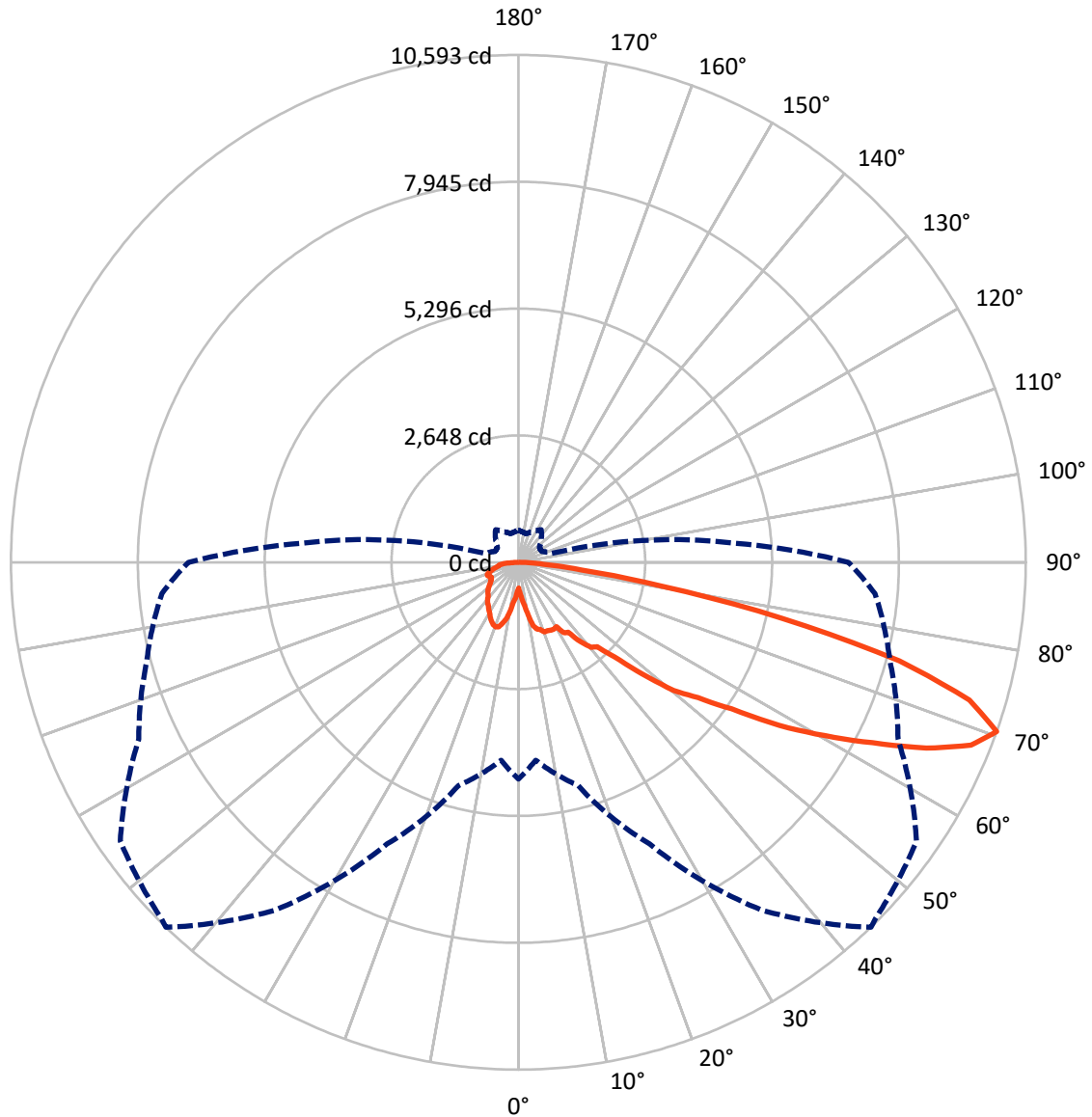
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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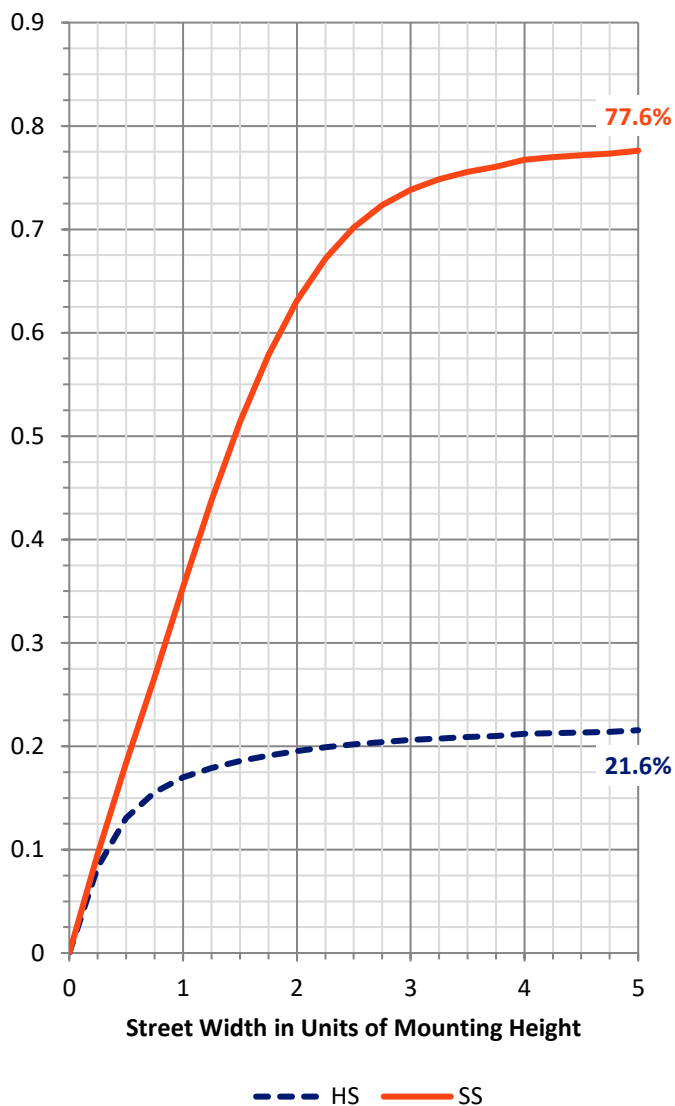
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3468.2 | 0.0 | 3468.2 |
| | % Fixture | 22.1 | 0.0 | 22.1 |
| Street Side | Lumens | 12250.8 | 0.0 | 12250.8 |
| | % Fixture | 77.9 | 0.0 | 77.9 |
| Total | Lumens | 15719.0 | 0.0 | 15719.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 83.8 | 0.5 |
| 10°-20° | 385.8 | 2.5 |
| 20°-30° | 720.9 | 4.6 |
| 30°-40° | 1157.2 | 7.4 |
| 40°-50° | 1953.2 | 12.4 |
| 50°-60° | 3480.6 | 22.1 |
| 60°-70° | 4760.9 | 30.3 |
| 70°-80° | 2799.7 | 17.8 |
| 80°-90° | 377.0 | 2.4 |
| 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° | 15719.0 | 100.0 |
| 0°-180° | 15719.0 | 100.0 |

Coefficient of Utilization



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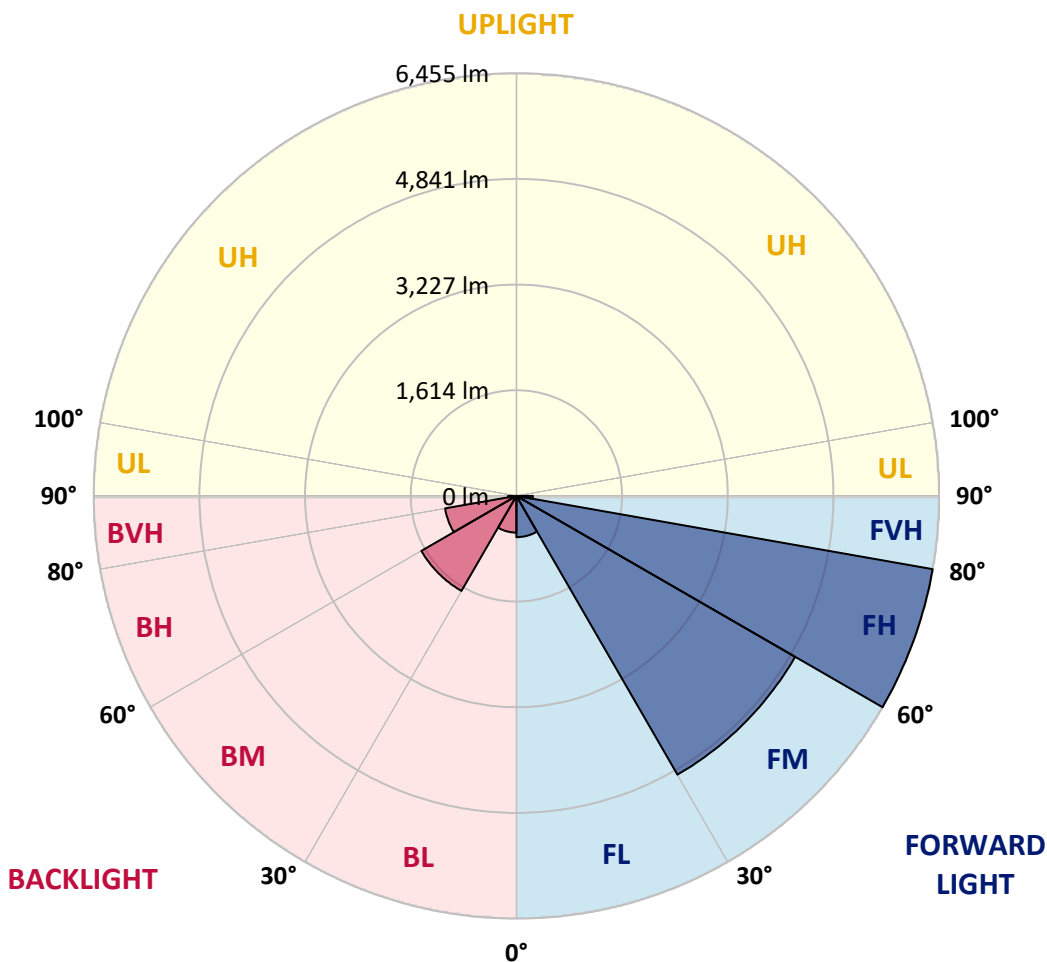
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 629.9 | 4.0 | | | |
| FM (30°-60°) | 4914.9 | 31.3 | | | |
| FH (60°-80°) | 6454.7 | 41.1 | | | G3/7500 |
| FVH (80°-90°) | 251.2 | 1.6 | | | G3/500 |
| BL (0°-30°) | 560.5 | 3.6 | B2/1000 | | |
| BM (30°-60°) | 1676.0 | 10.7 | B2/2500 | | |
| BH (60°-80°) | 1105.9 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 125.7 | 0.8 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 |
| 2.5° | 648.4 | 635.5 | 604.6 | 614.9 | 627.8 | 632.9 | 631.6 | 630.3 | 610.4 | 603.3 | 638.7 |
| 5° | 881.1 | 852.7 | 830.1 | 821.1 | 791.5 | 768.3 | 754.1 | 791.5 | 785.7 | 795.3 | 819.8 |
| 7.5° | 1100.2 | 1082.2 | 1031.2 | 1013.2 | 952.6 | 912.6 | 908.1 | 937.8 | 945.5 | 930.0 | 971.9 |
| 10° | 1241.4 | 1210.4 | 1200.1 | 1156.9 | 1115.0 | 1108.6 | 1104.7 | 1091.2 | 1072.5 | 1071.2 | 1033.8 |
| 12.5° | 1350.9 | 1367.0 | 1375.4 | 1325.8 | 1327.1 | 1350.3 | 1338.0 | 1283.2 | 1251.7 | 1196.2 | 1200.7 |
| 15° | 1547.5 | 1570.7 | 1504.3 | 1472.7 | 1412.1 | 1447.0 | 1442.4 | 1396.7 | 1392.2 | 1356.1 | 1314.2 |
| 17.5° | 1718.9 | 1729.3 | 1618.4 | 1546.2 | 1525.6 | 1475.3 | 1488.8 | 1490.1 | 1430.8 | 1495.3 | 1457.9 |
| 20° | 1733.1 | 1769.9 | 1642.2 | 1498.5 | 1560.4 | 1553.9 | 1555.9 | 1543.0 | 1465.0 | 1571.3 | 1557.2 |
| 22.5° | 1802.7 | 1746.7 | 1631.9 | 1526.9 | 1543.0 | 1552.7 | 1561.7 | 1546.2 | 1541.7 | 1601.0 | 1644.2 |
| 25° | 1789.8 | 1771.8 | 1655.8 | 1566.8 | 1568.8 | 1570.7 | 1575.2 | 1621.6 | 1616.5 | 1697.0 | 1719.6 |
| 27.5° | 1910.4 | 1882.7 | 1662.9 | 1641.0 | 1590.7 | 1579.7 | 1548.8 | 1645.5 | 1720.9 | 1718.9 | 1843.3 |
| 30° | 2139.8 | 2111.5 | 1827.9 | 1764.1 | 1673.2 | 1561.0 | 1620.3 | 1749.2 | 1808.5 | 1828.5 | 1986.4 |
| 32.5° | 2498.2 | 2544.6 | 2152.7 | 1895.5 | 1782.8 | 1758.3 | 1751.8 | 1738.9 | 1885.9 | 1984.5 | 2128.2 |
| 35° | 3012.5 | 2975.8 | 2535.6 | 2177.2 | 1898.1 | 1793.1 | 1807.2 | 1885.9 | 2060.5 | 2124.3 | 2257.1 |
| 37.5° | 3601.6 | 3525.5 | 3026.0 | 2496.2 | 2230.7 | 2099.2 | 2052.2 | 2128.2 | 2166.9 | 2217.2 | 2488.5 |
| 40° | 4200.4 | 4014.7 | 3507.5 | 2915.8 | 2430.5 | 2331.2 | 2290.0 | 2196.5 | 2287.4 | 2389.2 | 2734.1 |
| 42.5° | 4778.5 | 4634.8 | 4031.5 | 3416.6 | 2766.9 | 2413.1 | 2390.5 | 2299.0 | 2580.7 | 2688.3 | 3088.6 |
| 45° | 5384.3 | 5051.1 | 4568.4 | 3981.9 | 3258.7 | 2814.6 | 2781.1 | 2616.8 | 2977.7 | 3202.0 | 3588.7 |
| 47.5° | 5791.7 | 5483.0 | 5060.1 | 4440.8 | 3670.6 | 3486.2 | 3422.4 | 3141.4 | 3468.8 | 3760.1 | 4361.5 |
| 50° | 6177.1 | 5859.4 | 5415.3 | 4942.8 | 4416.3 | 4204.2 | 4068.2 | 3600.3 | 4080.5 | 4554.8 | 5352.1 |
| 52.5° | 6728.8 | 6444.6 | 5827.8 | 5448.8 | 5217.4 | 4696.0 | 4594.8 | 4337.6 | 4795.9 | 5435.9 | 6434.9 |
| 55° | 7318.6 | 6931.2 | 6372.4 | 6162.3 | 6068.8 | 5401.1 | 5318.6 | 5154.9 | 5748.5 | 6337.6 | 7487.4 |
| 57.5° | 7578.9 | 7174.8 | 6866.7 | 6741.1 | 6733.3 | 6425.9 | 6331.1 | 6217.1 | 6722.4 | 7111.0 | 8478.1 |
| 60° | 7785.8 | 7352.1 | 7229.0 | 7299.2 | 7554.5 | 7352.1 | 7229.0 | 7128.4 | 7515.1 | 7875.4 | 9286.3 |
| 62.5° | 7747.8 | 7312.8 | 7375.9 | 7589.9 | 8241.5 | 8300.8 | 8206.1 | 7962.4 | 8300.8 | 8501.9 | 9749.7 |
| 65° | 7134.2 | 6732.0 | 7100.1 | 7607.9 | 8880.2 | 9354.0 | 9348.8 | 8711.4 | 8828.7 | 8828.7 | 9700.7 |
| 67.5° | 6059.2 | 5642.8 | 6245.4 | 7448.8 | 9321.7 | 10188.6 | 10189.9 | 9505.4 | 8877.0 | 8795.8 | 8942.8 |
| 70° | 4524.6 | 4147.5 | 4824.9 | 6487.1 | 8866.1 | 10592.7 | 10534.1 | 10146.1 | 8744.2 | 8034.6 | 7470.0 |
| 72.5° | 2702.5 | 2458.9 | 3082.1 | 4722.4 | 7562.8 | 9849.6 | 10005.6 | 9408.1 | 8005.0 | 6681.8 | 5339.9 |
| 75° | 1227.2 | 1121.5 | 1448.2 | 2712.8 | 5399.2 | 8215.7 | 8385.2 | 7939.9 | 6358.2 | 4805.6 | 3086.0 |
| 77.5° | 525.3 | 496.9 | 632.3 | 1203.3 | 2977.1 | 5618.3 | 5965.7 | 5674.4 | 4308.0 | 2792.7 | 1365.1 |
| 80° | 337.7 | 319.7 | 388.6 | 578.8 | 1382.5 | 3035.7 | 3334.8 | 3225.8 | 2194.6 | 1086.0 | 480.8 |
| 82.5° | 201.7 | 195.9 | 259.7 | 363.5 | 754.1 | 1336.1 | 1505.6 | 1545.6 | 911.4 | 487.3 | 275.2 |
| 85° | 110.2 | 111.5 | 142.4 | 220.4 | 452.5 | 520.1 | 556.9 | 605.9 | 429.3 | 282.3 | 133.4 |
| 87.5° | 36.7 | 42.5 | 57.4 | 89.6 | 161.1 | 147.0 | 147.6 | 171.4 | 181.1 | 117.3 | 42.5 |
| 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° | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 | 534.3 |
| 2.5° | 644.5 | 632.9 | 603.3 | 605.2 | 616.2 | 618.7 | 622.0 | 603.3 | 599.4 | 634.9 | 638.1 |
| 5° | 823.7 | 785.7 | 768.3 | 762.5 | 745.7 | 739.9 | 770.8 | 785.0 | 799.2 | 826.9 | 840.5 |
| 7.5° | 967.4 | 924.9 | 893.3 | 864.3 | 839.8 | 825.6 | 877.8 | 917.8 | 942.3 | 999.0 | 1024.8 |
| 10° | 1033.2 | 996.4 | 984.8 | 961.6 | 980.3 | 1022.9 | 1032.5 | 1033.8 | 1088.0 | 1086.7 | 1097.6 |
| 12.5° | 1164.0 | 1140.2 | 1102.1 | 1110.5 | 1159.5 | 1203.3 | 1191.1 | 1209.8 | 1229.1 | 1275.5 | 1254.2 |
| 15° | 1283.2 | 1276.8 | 1241.4 | 1247.2 | 1256.8 | 1311.6 | 1318.7 | 1337.4 | 1367.0 | 1403.8 | 1378.6 |
| 17.5° | 1430.2 | 1427.6 | 1341.3 | 1333.5 | 1356.1 | 1409.6 | 1392.8 | 1359.9 | 1457.9 | 1497.2 | 1486.9 |
| 20° | 1530.1 | 1510.8 | 1399.9 | 1367.0 | 1424.4 | 1431.5 | 1412.1 | 1359.9 | 1445.0 | 1530.7 | 1553.9 |
| 22.5° | 1613.2 | 1590.7 | 1476.6 | 1412.1 | 1400.5 | 1403.8 | 1403.8 | 1394.1 | 1436.0 | 1506.3 | 1505.6 |
| 25° | 1680.3 | 1701.5 | 1556.5 | 1494.6 | 1432.8 | 1355.4 | 1345.8 | 1354.1 | 1378.0 | 1513.3 | 1508.8 |
| 27.5° | 1848.5 | 1789.8 | 1583.6 | 1537.2 | 1410.2 | 1288.4 | 1314.8 | 1327.7 | 1335.5 | 1483.7 | 1508.2 |
| 30° | 1958.1 | 1976.1 | 1680.3 | 1562.3 | 1377.3 | 1213.6 | 1222.7 | 1260.0 | 1305.2 | 1480.5 | 1487.6 |
| 32.5° | 2105.7 | 2067.0 | 1831.1 | 1520.4 | 1289.7 | 1168.5 | 1151.8 | 1202.0 | 1269.1 | 1428.3 | 1447.6 |
| 35° | 2242.9 | 2288.7 | 1894.9 | 1512.7 | 1228.5 | 1100.8 | 1118.9 | 1136.3 | 1205.9 | 1370.3 | 1392.8 |
| 37.5° | 2565.2 | 2460.8 | 2074.1 | 1475.3 | 1177.5 | 1066.7 | 1047.3 | 1073.8 | 1133.1 | 1260.0 | 1312.2 |
| 40° | 2810.1 | 2816.6 | 2112.7 | 1428.3 | 1080.2 | 1017.7 | 976.5 | 1002.9 | 1028.0 | 1129.2 | 1151.8 |
| 42.5° | 3269.7 | 3129.2 | 2207.5 | 1325.1 | 1019.0 | 944.2 | 921.0 | 932.6 | 936.5 | 979.0 | 1016.4 |
| 45° | 3854.2 | 3524.9 | 2244.9 | 1186.6 | 938.4 | 913.9 | 866.9 | 861.1 | 839.8 | 845.6 | 878.5 |
| 47.5° | 4663.1 | 4142.3 | 2217.8 | 1039.0 | 866.9 | 874.6 | 806.9 | 780.5 | 750.9 | 758.0 | 788.9 |
| 50° | 5709.2 | 4931.2 | 2215.9 | 913.9 | 817.9 | 823.1 | 767.6 | 719.9 | 690.3 | 705.1 | 732.2 |
| 52.5° | 6882.9 | 5722.7 | 2224.9 | 828.2 | 764.4 | 761.8 | 741.8 | 683.8 | 660.0 | 675.5 | 706.4 |
| 55° | 8005.6 | 6403.3 | 2291.9 | 774.1 | 709.0 | 713.5 | 721.2 | 672.2 | 645.8 | 660.0 | 692.2 |
| 57.5° | 8982.7 | 6940.9 | 2266.8 | 716.7 | 657.4 | 678.0 | 698.7 | 656.1 | 636.1 | 656.8 | 689.0 |
| 60° | 9665.9 | 7190.3 | 2068.3 | 661.9 | 619.4 | 647.7 | 687.7 | 654.2 | 651.6 | 696.1 | 734.8 |
| 62.5° | 9915.3 | 7098.1 | 1681.6 | 618.7 | 596.8 | 643.9 | 712.8 | 696.7 | 699.3 | 754.1 | 807.6 |
| 65° | 9551.2 | 6613.5 | 1254.2 | 591.0 | 579.4 | 662.6 | 770.8 | 721.9 | 686.4 | 731.5 | 780.5 |
| 67.5° | 8515.4 | 5751.7 | 916.5 | 567.2 | 559.4 | 692.2 | 824.3 | 719.3 | 653.5 | 699.3 | 739.3 |
| 70° | 6889.3 | 4540.0 | 709.6 | 536.9 | 533.0 | 672.2 | 829.5 | 700.0 | 618.1 | 647.7 | 670.3 |
| 72.5° | 4720.5 | 3108.5 | 587.8 | 507.9 | 487.3 | 595.5 | 787.6 | 656.8 | 575.6 | 593.0 | 611.7 |
| 75° | 2638.0 | 1744.7 | 494.3 | 471.8 | 426.7 | 530.4 | 738.6 | 631.0 | 544.0 | 549.1 | 574.9 |
| 77.5° | 1184.0 | 754.7 | 419.6 | 424.1 | 371.9 | 469.2 | 674.8 | 589.7 | 495.6 | 484.0 | 509.8 |
| 80° | 447.9 | 368.0 | 340.3 | 358.4 | 312.6 | 406.7 | 608.4 | 552.4 | 444.7 | 429.9 | 444.7 |
| 82.5° | 259.7 | 223.0 | 252.7 | 275.9 | 248.1 | 373.8 | 580.7 | 518.2 | 391.9 | 354.5 | 367.4 |
| 85° | 120.5 | 115.4 | 151.5 | 179.2 | 173.4 | 291.3 | 496.9 | 389.9 | 279.1 | 235.9 | 261.0 |
| 87.5° | 31.6 | 35.4 | 53.5 | 63.2 | 64.5 | 99.9 | 191.4 | 145.0 | 108.9 | 82.5 | 79.3 |
| 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)