

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: P597486

Luminaire Tested: **PMM-SA4B-722-U-T4W**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4B-722-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: 14482 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

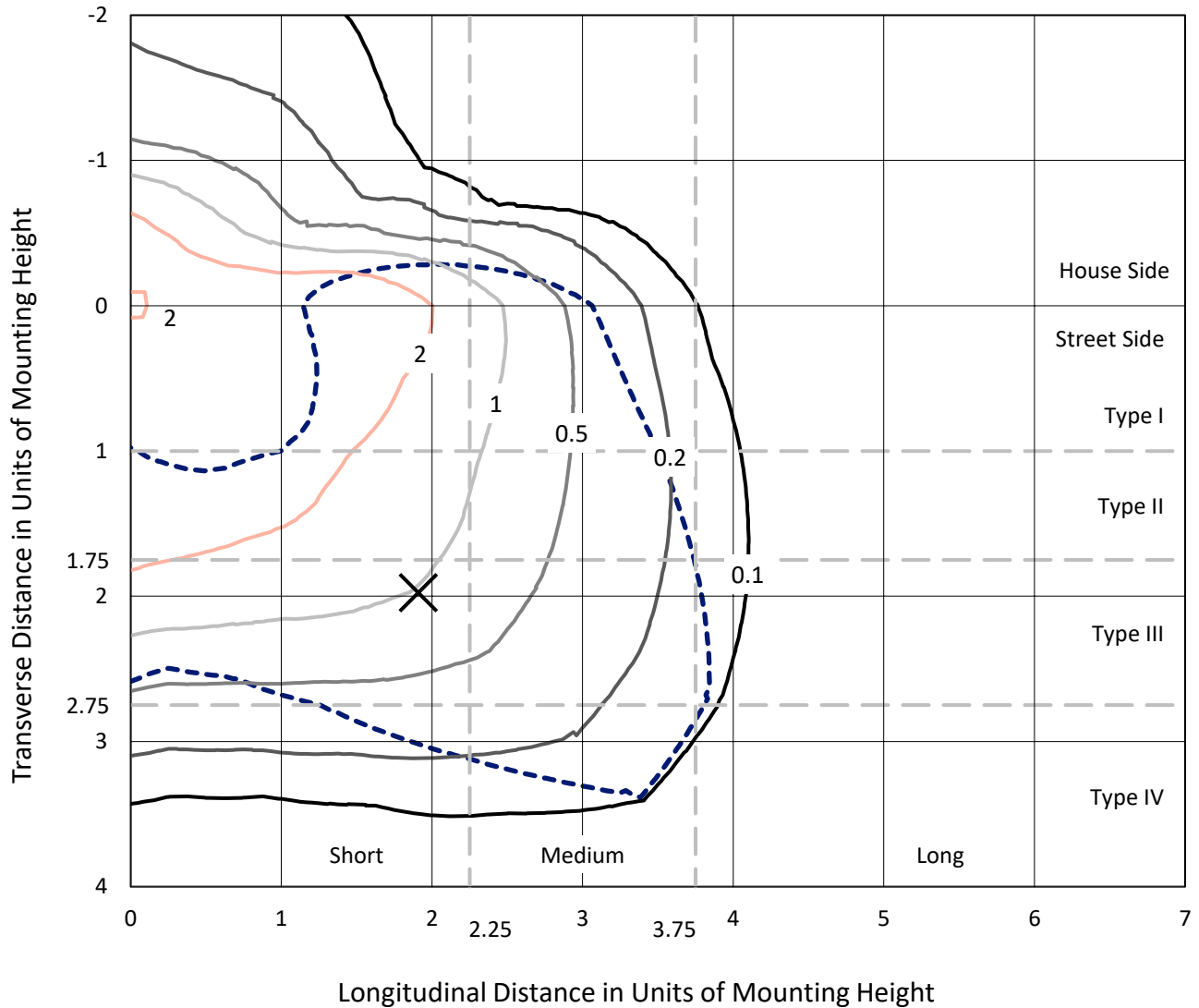
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

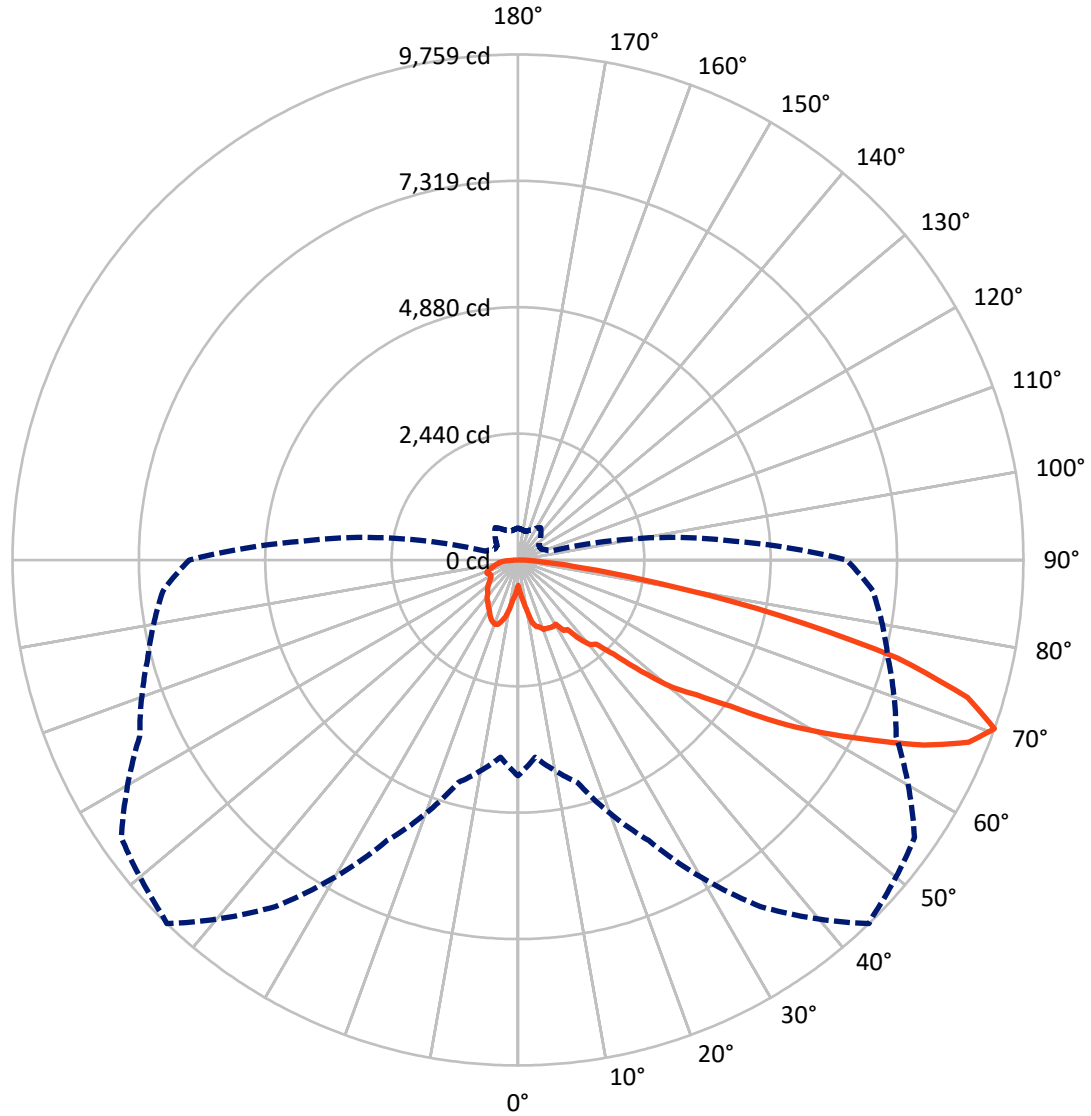
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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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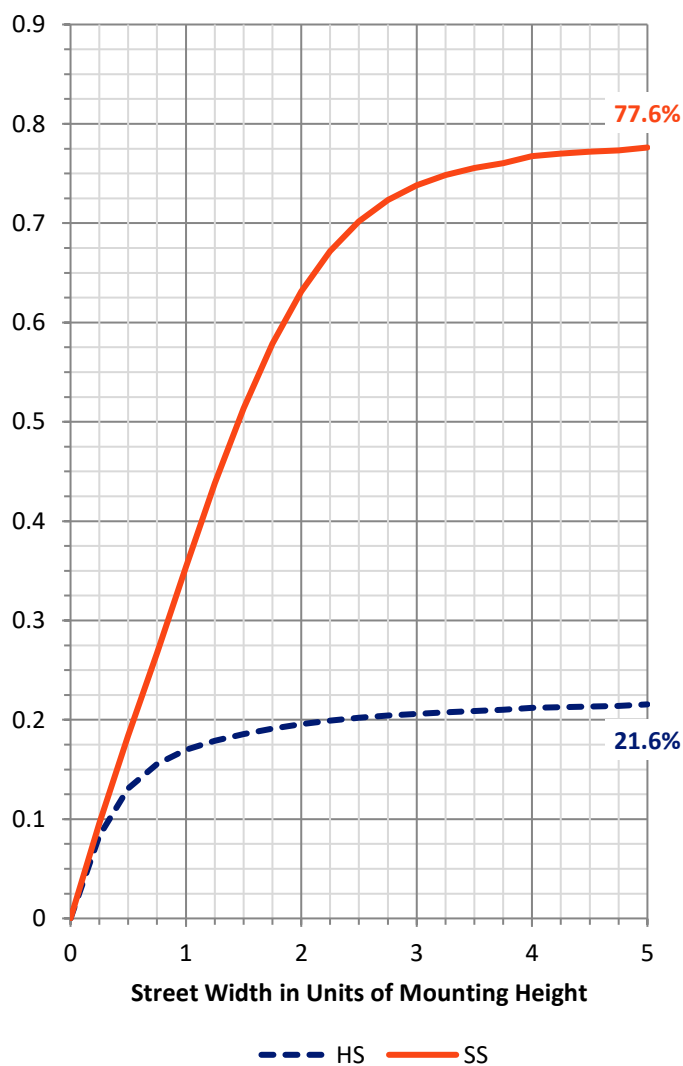
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3195.3 | 0.0 | 3195.3 |
| | % Fixture | 22.1 | 0.0 | 22.1 |
| Street Side | Lumens | 11286.7 | 0.0 | 11286.7 |
| | % Fixture | 77.9 | 0.0 | 77.9 |
| Total | Lumens | 14482.0 | 0.0 | 14482.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 77.2 | 0.5 |
| 10°-20° | 355.4 | 2.5 |
| 20°-30° | 664.2 | 4.6 |
| 30°-40° | 1066.1 | 7.4 |
| 40°-50° | 1799.5 | 12.4 |
| 50°-60° | 3206.7 | 22.1 |
| 60°-70° | 4386.3 | 30.3 |
| 70°-80° | 2579.4 | 17.8 |
| 80°-90° | 347.3 | 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° | 14482.0 | 100.0 |
| 0°-180° | 14482.0 | 100.0 |

Coefficient of Utilization



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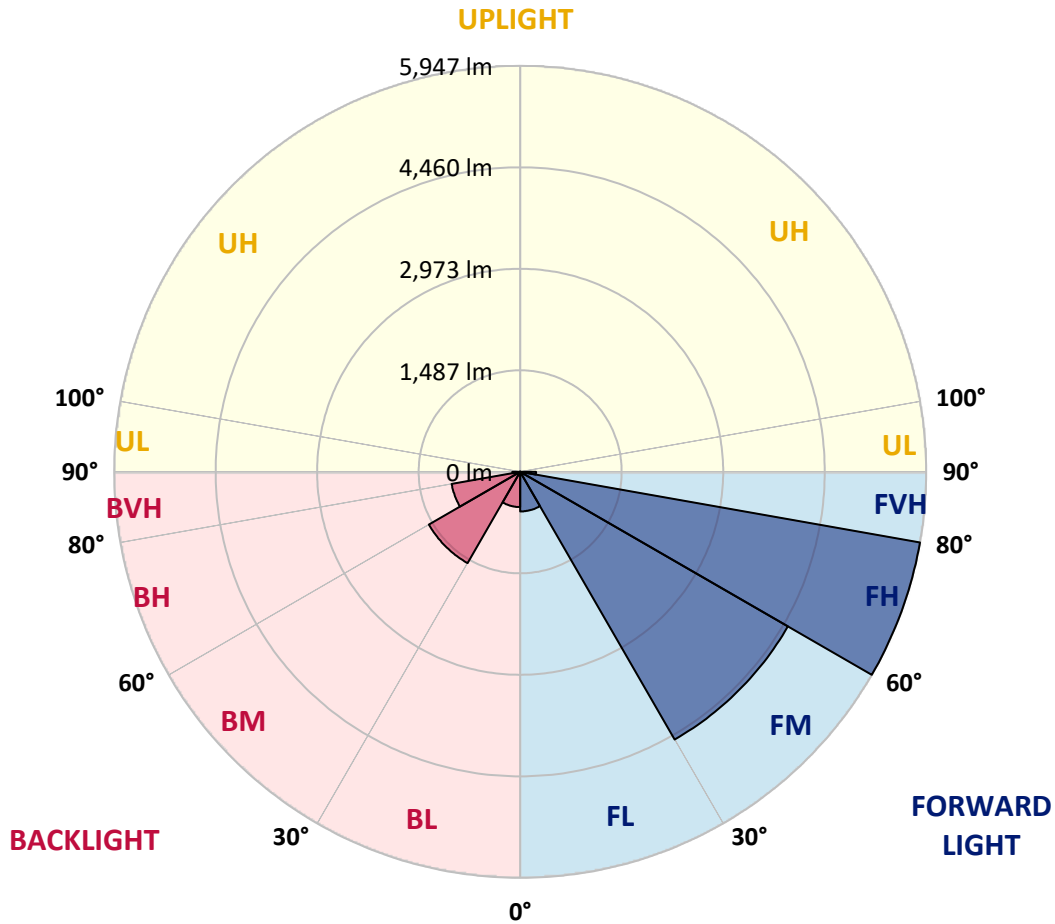
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 580.4 | 4.0 | | | |
| FM (30°-60°) | 4528.1 | 31.3 | | | |
| FH (60°-80°) | 5946.8 | 41.1 | | | G3/7500 |
| FVH (80°-90°) | 231.5 | 1.6 | | | G3/500 |
| BL (0°-30°) | 516.4 | 3.6 | B2/1000 | | |
| BM (30°-60°) | 1544.1 | 10.7 | B2/2500 | | |
| BH (60°-80°) | 1018.9 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 115.8 | 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° | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 |
| 2.5° | 597.4 | 585.5 | 557.0 | 566.5 | 578.4 | 583.1 | 581.9 | 580.7 | 562.3 | 555.8 | 588.5 |
| 5° | 811.7 | 785.6 | 764.8 | 756.5 | 729.2 | 707.8 | 694.7 | 729.2 | 723.8 | 732.8 | 755.3 |
| 7.5° | 1013.6 | 997.0 | 950.1 | 933.5 | 877.6 | 840.8 | 836.7 | 864.0 | 871.1 | 856.9 | 895.5 |
| 10° | 1143.7 | 1115.2 | 1105.7 | 1065.9 | 1027.3 | 1021.3 | 1017.8 | 1005.3 | 988.1 | 986.9 | 952.5 |
| 12.5° | 1244.6 | 1259.5 | 1267.2 | 1221.5 | 1222.6 | 1244.0 | 1232.7 | 1182.3 | 1153.2 | 1102.1 | 1106.3 |
| 15° | 1425.7 | 1447.1 | 1385.9 | 1356.8 | 1301.0 | 1333.1 | 1328.9 | 1286.8 | 1282.6 | 1249.4 | 1210.8 |
| 17.5° | 1583.7 | 1593.2 | 1491.0 | 1424.5 | 1405.5 | 1359.2 | 1371.7 | 1372.9 | 1318.2 | 1377.6 | 1343.2 |
| 20° | 1596.7 | 1630.6 | 1513.0 | 1380.6 | 1437.6 | 1431.7 | 1433.4 | 1421.6 | 1349.7 | 1447.7 | 1434.6 |
| 22.5° | 1660.9 | 1609.2 | 1503.5 | 1406.7 | 1421.6 | 1430.5 | 1438.8 | 1424.5 | 1420.4 | 1475.0 | 1514.8 |
| 25° | 1649.0 | 1632.4 | 1525.5 | 1443.5 | 1445.3 | 1447.1 | 1451.3 | 1494.0 | 1489.3 | 1563.5 | 1584.3 |
| 27.5° | 1760.0 | 1734.5 | 1532.0 | 1511.8 | 1465.5 | 1455.4 | 1426.9 | 1516.0 | 1585.5 | 1583.7 | 1698.3 |
| 30° | 1971.4 | 1945.3 | 1684.0 | 1625.2 | 1541.5 | 1438.2 | 1492.8 | 1611.6 | 1666.2 | 1684.6 | 1830.1 |
| 32.5° | 2301.6 | 2344.3 | 1983.3 | 1746.4 | 1642.5 | 1619.9 | 1614.0 | 1602.1 | 1737.5 | 1828.3 | 1960.7 |
| 35° | 2775.4 | 2741.6 | 2336.0 | 2005.9 | 1748.7 | 1652.0 | 1665.0 | 1737.5 | 1898.4 | 1957.2 | 2079.5 |
| 37.5° | 3318.2 | 3248.1 | 2787.9 | 2299.8 | 2055.2 | 1934.0 | 1890.7 | 1960.7 | 1996.4 | 2042.7 | 2292.7 |
| 40° | 3869.8 | 3698.8 | 3231.5 | 2686.4 | 2239.2 | 2147.8 | 2109.8 | 2023.7 | 2107.4 | 2201.2 | 2518.9 |
| 42.5° | 4402.5 | 4270.0 | 3714.2 | 3147.7 | 2549.2 | 2223.2 | 2202.4 | 2118.1 | 2377.6 | 2476.8 | 2845.5 |
| 45° | 4960.6 | 4653.6 | 4208.9 | 3668.5 | 3002.3 | 2593.1 | 2562.3 | 2410.8 | 2743.4 | 2950.0 | 3306.3 |
| 47.5° | 5335.9 | 5051.5 | 4661.9 | 4091.3 | 3381.7 | 3211.9 | 3153.1 | 2894.2 | 3195.8 | 3464.2 | 4018.3 |
| 50° | 5691.0 | 5398.3 | 4989.1 | 4553.9 | 4068.7 | 3873.4 | 3748.1 | 3317.0 | 3759.4 | 4196.4 | 4930.9 |
| 52.5° | 6199.3 | 5937.4 | 5369.2 | 5020.0 | 4806.8 | 4326.4 | 4233.2 | 3996.3 | 4418.5 | 5008.1 | 5928.5 |
| 55° | 6742.6 | 6385.8 | 5870.9 | 5677.3 | 5591.2 | 4976.1 | 4900.1 | 4749.2 | 5296.1 | 5838.9 | 6898.2 |
| 57.5° | 6982.5 | 6610.2 | 6326.4 | 6210.6 | 6203.5 | 5920.2 | 5832.9 | 5727.8 | 6193.4 | 6551.4 | 7810.9 |
| 60° | 7173.1 | 6773.5 | 6660.1 | 6724.8 | 6960.0 | 6773.5 | 6660.1 | 6567.5 | 6923.7 | 7255.7 | 8555.5 |
| 62.5° | 7138.1 | 6737.3 | 6795.5 | 6992.6 | 7593.0 | 7647.6 | 7560.3 | 7335.8 | 7647.6 | 7832.8 | 8982.5 |
| 65° | 6572.8 | 6202.3 | 6541.3 | 7009.2 | 8181.4 | 8617.9 | 8613.1 | 8025.8 | 8133.9 | 8133.9 | 8937.3 |
| 67.5° | 5582.3 | 5198.7 | 5753.9 | 6862.6 | 8588.2 | 9386.8 | 9388.0 | 8757.4 | 8178.4 | 8103.6 | 8239.0 |
| 70° | 4168.5 | 3821.1 | 4445.2 | 5976.6 | 8168.3 | 9759.1 | 9705.1 | 9347.6 | 8056.1 | 7402.3 | 6882.2 |
| 72.5° | 2489.8 | 2265.4 | 2839.6 | 4350.8 | 6967.7 | 9074.5 | 9218.2 | 8667.7 | 7375.0 | 6156.0 | 4919.7 |
| 75° | 1130.6 | 1033.2 | 1334.3 | 2499.3 | 4974.3 | 7569.2 | 7725.4 | 7315.1 | 5857.9 | 4427.4 | 2843.1 |
| 77.5° | 483.9 | 457.8 | 582.5 | 1108.6 | 2742.8 | 5176.2 | 5496.2 | 5227.8 | 3969.0 | 2572.9 | 1257.7 |
| 80° | 311.2 | 294.5 | 358.1 | 533.2 | 1273.7 | 2796.8 | 3072.3 | 2972.0 | 2021.9 | 1000.6 | 443.0 |
| 82.5° | 185.9 | 180.5 | 239.3 | 334.9 | 694.7 | 1231.0 | 1387.1 | 1423.9 | 839.6 | 448.9 | 253.6 |
| 85° | 101.5 | 102.7 | 131.2 | 203.1 | 416.8 | 479.2 | 513.0 | 558.2 | 395.5 | 260.1 | 122.9 |
| 87.5° | 33.8 | 39.2 | 52.8 | 82.5 | 148.5 | 135.4 | 136.0 | 158.0 | 166.9 | 108.1 | 39.2 |
| 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° | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 | 492.3 |
| 2.5° | 593.8 | 583.1 | 555.8 | 557.6 | 567.7 | 570.1 | 573.0 | 555.8 | 552.2 | 584.9 | 587.9 |
| 5° | 758.9 | 723.8 | 707.8 | 702.5 | 687.0 | 681.7 | 710.2 | 723.3 | 736.3 | 761.8 | 774.3 |
| 7.5° | 891.3 | 852.1 | 823.0 | 796.3 | 773.7 | 760.7 | 808.8 | 845.6 | 868.1 | 920.4 | 944.1 |
| 10° | 951.9 | 918.0 | 907.3 | 886.0 | 903.2 | 942.4 | 951.3 | 952.5 | 1002.3 | 1001.2 | 1011.2 |
| 12.5° | 1072.4 | 1050.4 | 1015.4 | 1023.1 | 1068.3 | 1108.6 | 1097.3 | 1114.6 | 1132.4 | 1175.1 | 1155.5 |
| 15° | 1182.3 | 1176.3 | 1143.7 | 1149.0 | 1157.9 | 1208.4 | 1214.9 | 1232.1 | 1259.5 | 1293.3 | 1270.1 |
| 17.5° | 1317.6 | 1315.3 | 1235.7 | 1228.6 | 1249.4 | 1298.6 | 1283.2 | 1252.9 | 1343.2 | 1379.4 | 1369.9 |
| 20° | 1409.7 | 1391.9 | 1289.7 | 1259.5 | 1312.3 | 1318.8 | 1301.0 | 1252.9 | 1331.3 | 1410.3 | 1431.7 |
| 22.5° | 1486.3 | 1465.5 | 1360.4 | 1301.0 | 1290.3 | 1293.3 | 1293.3 | 1284.4 | 1323.0 | 1387.7 | 1387.1 |
| 25° | 1548.0 | 1567.6 | 1434.0 | 1377.0 | 1320.0 | 1248.8 | 1239.9 | 1247.6 | 1269.5 | 1394.2 | 1390.1 |
| 27.5° | 1703.0 | 1649.0 | 1459.0 | 1416.2 | 1299.2 | 1187.0 | 1211.4 | 1223.2 | 1230.4 | 1366.9 | 1389.5 |
| 30° | 1804.0 | 1820.6 | 1548.0 | 1439.4 | 1269.0 | 1118.1 | 1126.4 | 1160.9 | 1202.5 | 1364.0 | 1370.5 |
| 32.5° | 1940.0 | 1904.3 | 1687.0 | 1400.8 | 1188.2 | 1076.6 | 1061.1 | 1107.4 | 1169.2 | 1315.9 | 1333.7 |
| 35° | 2066.4 | 2108.6 | 1745.8 | 1393.7 | 1131.8 | 1014.2 | 1030.8 | 1046.9 | 1111.0 | 1262.4 | 1283.2 |
| 37.5° | 2363.3 | 2267.1 | 1910.9 | 1359.2 | 1084.9 | 982.7 | 964.9 | 989.3 | 1043.9 | 1160.9 | 1209.0 |
| 40° | 2589.0 | 2594.9 | 1946.5 | 1315.9 | 995.2 | 937.6 | 899.6 | 924.0 | 947.1 | 1040.3 | 1061.1 |
| 42.5° | 3012.4 | 2882.9 | 2033.8 | 1220.9 | 938.8 | 869.9 | 848.5 | 859.2 | 862.8 | 902.0 | 936.4 |
| 45° | 3550.9 | 3247.5 | 2068.2 | 1093.2 | 864.6 | 842.0 | 798.7 | 793.3 | 773.7 | 779.1 | 809.4 |
| 47.5° | 4296.2 | 3816.4 | 2043.3 | 957.2 | 798.7 | 805.8 | 743.4 | 719.1 | 691.8 | 698.3 | 726.8 |
| 50° | 5259.9 | 4543.2 | 2041.5 | 842.0 | 753.5 | 758.3 | 707.2 | 663.3 | 636.0 | 649.6 | 674.6 |
| 52.5° | 6341.2 | 5272.4 | 2049.8 | 763.0 | 704.2 | 701.9 | 683.5 | 630.0 | 608.1 | 622.3 | 650.8 |
| 55° | 7375.6 | 5899.4 | 2111.6 | 713.2 | 653.2 | 657.3 | 664.5 | 619.3 | 595.0 | 608.1 | 637.7 |
| 57.5° | 8275.8 | 6394.7 | 2088.4 | 660.3 | 605.7 | 624.7 | 643.7 | 604.5 | 586.1 | 605.1 | 634.8 |
| 60° | 8905.3 | 6624.5 | 1905.5 | 609.8 | 570.6 | 596.8 | 633.6 | 602.7 | 600.3 | 641.3 | 676.9 |
| 62.5° | 9135.1 | 6539.5 | 1549.2 | 570.1 | 549.9 | 593.2 | 656.7 | 641.9 | 644.3 | 694.7 | 744.0 |
| 65° | 8799.6 | 6093.0 | 1155.5 | 544.5 | 533.8 | 610.4 | 710.2 | 665.1 | 632.4 | 674.0 | 719.1 |
| 67.5° | 7845.3 | 5299.1 | 844.4 | 522.5 | 515.4 | 637.7 | 759.5 | 662.7 | 602.1 | 644.3 | 681.1 |
| 70° | 6347.2 | 4182.7 | 653.8 | 494.6 | 491.1 | 619.3 | 764.2 | 644.9 | 569.5 | 596.8 | 617.6 |
| 72.5° | 4349.0 | 2863.9 | 541.5 | 467.9 | 448.9 | 548.7 | 725.6 | 605.1 | 530.3 | 546.3 | 563.5 |
| 75° | 2430.4 | 1607.4 | 455.4 | 434.7 | 393.1 | 488.7 | 680.5 | 581.3 | 501.2 | 505.9 | 529.7 |
| 77.5° | 1090.8 | 695.3 | 386.6 | 390.7 | 342.6 | 432.3 | 621.7 | 543.3 | 456.6 | 445.9 | 469.7 |
| 80° | 412.7 | 339.1 | 313.5 | 330.2 | 288.0 | 374.7 | 560.5 | 508.9 | 409.7 | 396.1 | 409.7 |
| 82.5° | 239.3 | 205.5 | 232.8 | 254.1 | 228.6 | 344.4 | 535.0 | 477.4 | 361.0 | 326.6 | 338.5 |
| 85° | 111.0 | 106.3 | 139.5 | 165.1 | 159.7 | 268.4 | 457.8 | 359.3 | 257.1 | 217.3 | 240.5 |
| 87.5° | 29.1 | 32.7 | 49.3 | 58.2 | 59.4 | 92.0 | 176.4 | 133.6 | 100.4 | 76.0 | 73.0 |
| 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)