

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: P368268

Luminaire Tested: **PMM-SA4A-750-U-T4FT**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4A-750-U-T4FT
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15539 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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

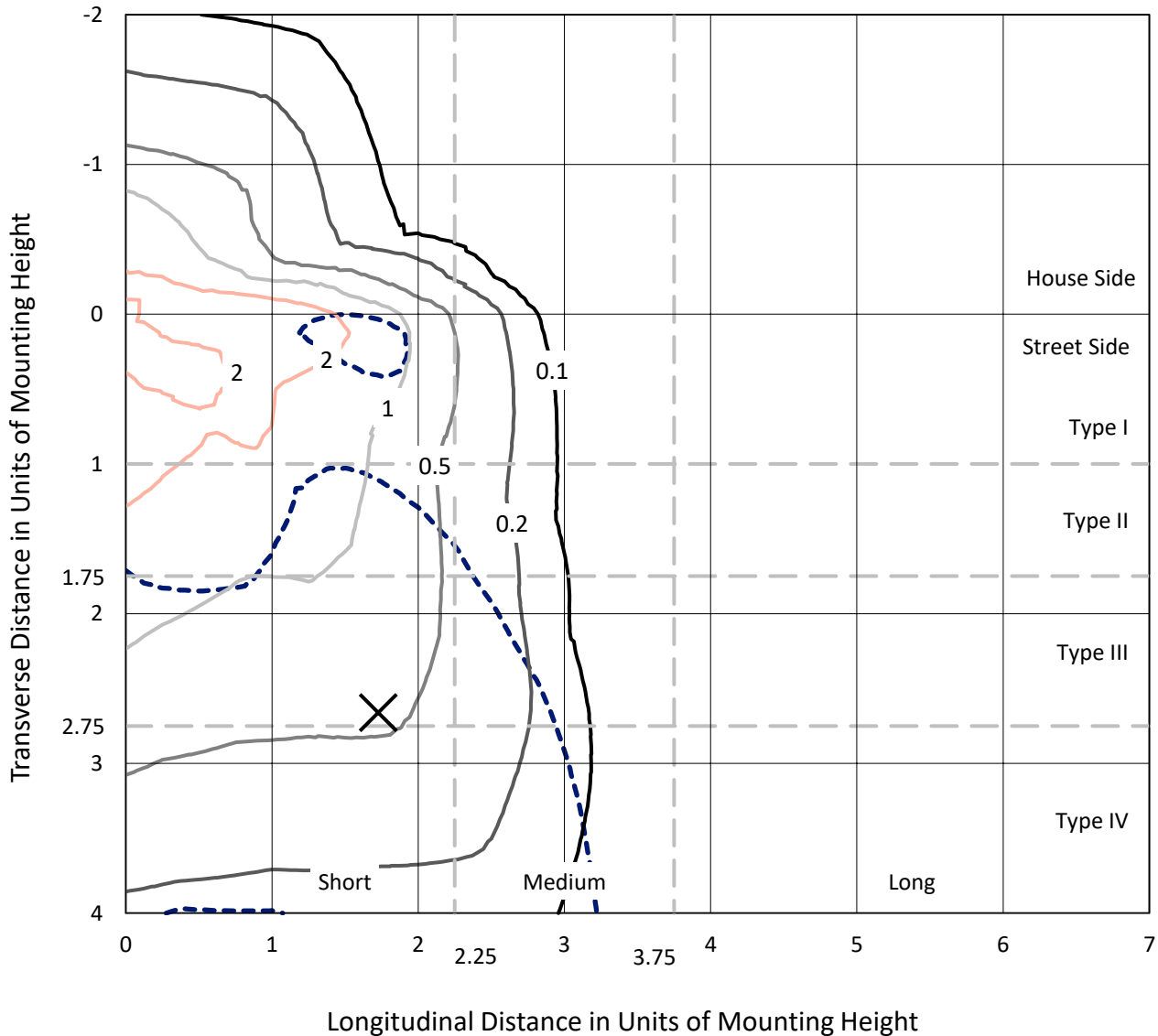


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Iso-Footcandle Lines of Horizontal Illumination

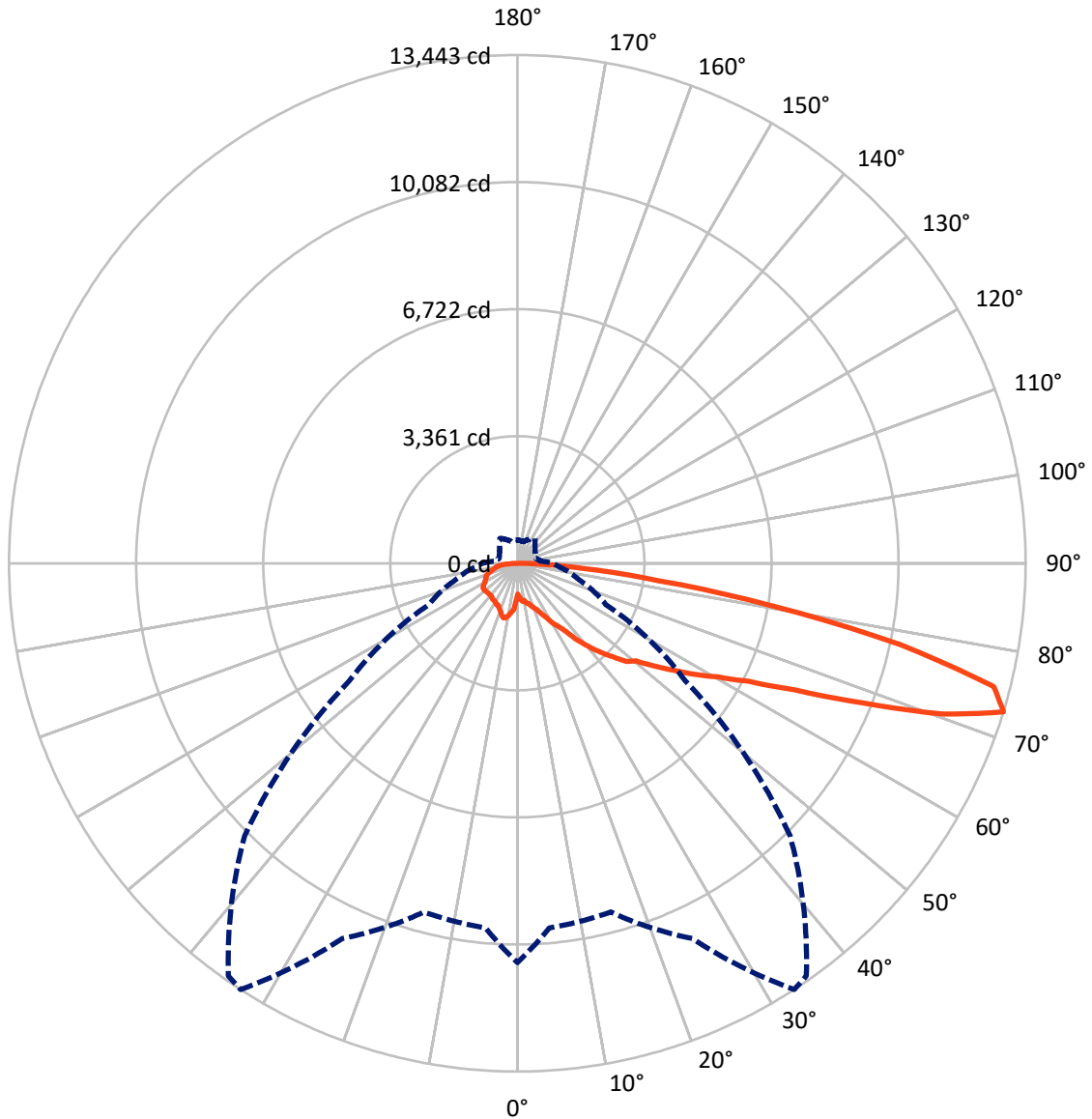
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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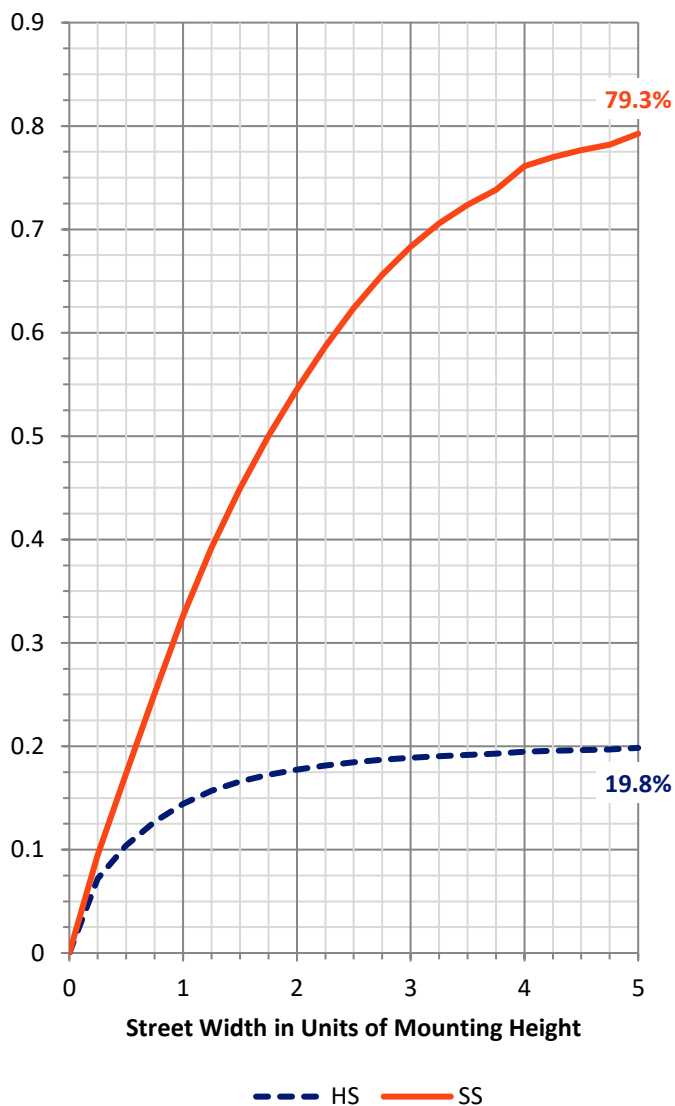
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3143.5 | 0.0 | 3143.5 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 12395.5 | 0.0 | 12395.5 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 15539.0 | 0.0 | 15539.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 112.1 | 0.7 |
| 10°-20° | 414.0 | 2.7 |
| 20°-30° | 755.0 | 4.9 |
| 30°-40° | 1277.2 | 8.2 |
| 40°-50° | 2124.9 | 13.7 |
| 50°-60° | 3118.4 | 20.1 |
| 60°-70° | 3989.2 | 25.7 |
| 70°-80° | 3245.6 | 20.9 |
| 80°-90° | 502.7 | 3.2 |
| 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° | 15539.0 | 100.0 |
| 0°-180° | 15539.0 | 100.0 |

Coefficient of Utilization



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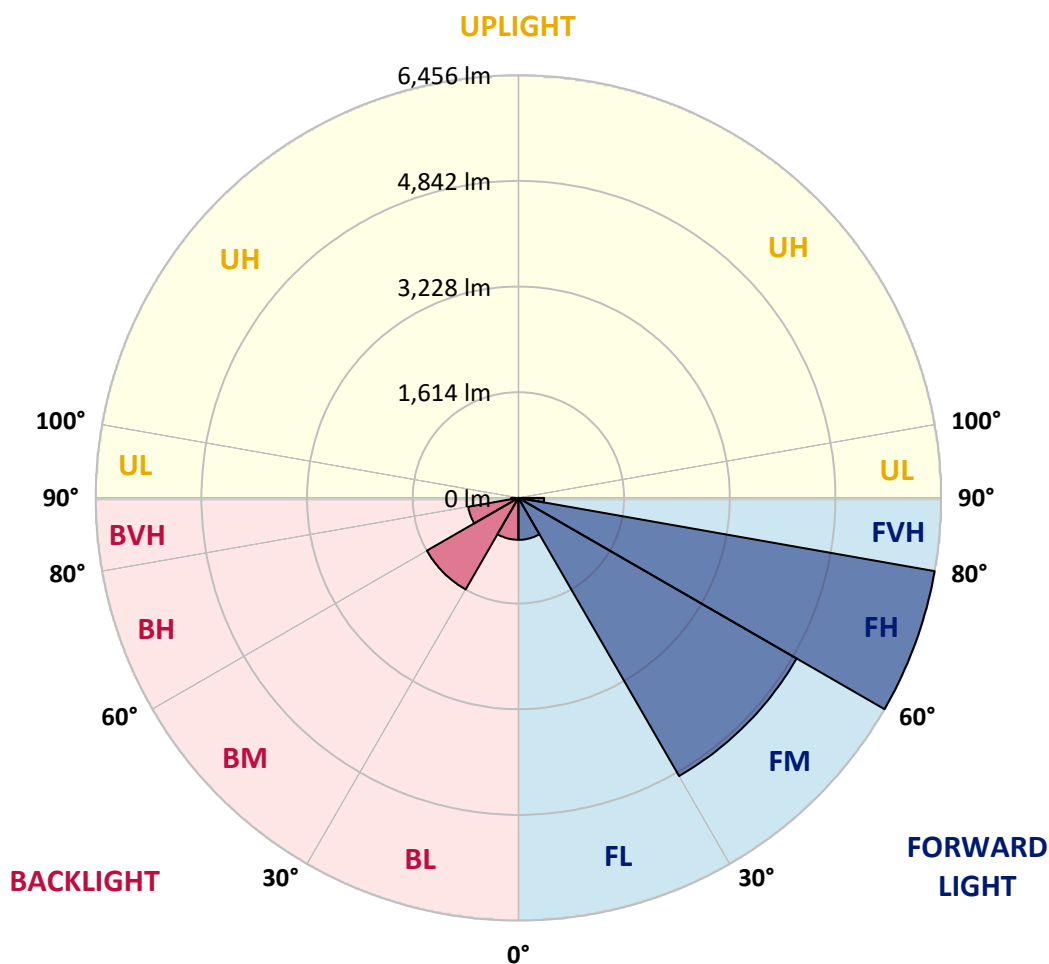
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 641.3 | 4.1 | | | |
| FM (30°-60°) | 4906.0 | 31.6 | | | |
| FH (60°-80°) | 6455.9 | 41.5 | | | G3/7500 |
| FVH (80°-90°) | 392.3 | 2.5 | | | G3/500 |
| BL (0°-30°) | 639.8 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 1614.5 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 778.9 | 5.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 110.4 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 |
| 2.5° | 923.7 | 894.7 | 847.0 | 845.7 | 872.2 | 878.0 | 895.4 | 896.7 | 903.1 | 892.8 | 966.3 |
| 5° | 1019.2 | 988.2 | 969.5 | 976.0 | 963.7 | 978.5 | 978.5 | 1021.1 | 1077.8 | 1143.6 | 1237.0 |
| 7.5° | 1041.7 | 1019.2 | 997.9 | 1014.0 | 1016.6 | 1002.4 | 1015.9 | 1115.8 | 1218.3 | 1284.1 | 1433.6 |
| 10° | 996.6 | 974.0 | 990.1 | 995.3 | 994.7 | 1026.9 | 1097.1 | 1177.1 | 1291.2 | 1412.4 | 1492.9 |
| 12.5° | 988.2 | 1004.3 | 1012.1 | 1021.1 | 1082.3 | 1092.0 | 1198.4 | 1280.9 | 1395.6 | 1502.0 | 1711.5 |
| 15° | 1112.6 | 1133.9 | 1086.2 | 1083.0 | 1103.0 | 1112.0 | 1222.2 | 1305.4 | 1473.0 | 1651.5 | 1839.8 |
| 17.5° | 1289.9 | 1297.6 | 1211.9 | 1168.1 | 1182.9 | 1190.0 | 1238.3 | 1342.8 | 1445.9 | 1775.9 | 2010.6 |
| 20° | 1461.4 | 1466.5 | 1305.4 | 1207.4 | 1259.6 | 1267.3 | 1312.5 | 1372.4 | 1453.6 | 1845.6 | 2126.0 |
| 22.5° | 1641.2 | 1608.3 | 1431.7 | 1307.9 | 1338.2 | 1340.2 | 1366.6 | 1399.5 | 1514.9 | 1834.6 | 2266.5 |
| 25° | 1837.8 | 1817.2 | 1594.8 | 1476.2 | 1474.9 | 1448.5 | 1449.8 | 1496.8 | 1580.0 | 1951.9 | 2358.7 |
| 27.5° | 2098.9 | 2101.5 | 1778.5 | 1714.7 | 1614.8 | 1597.4 | 1510.4 | 1598.0 | 1692.8 | 1953.2 | 2557.9 |
| 30° | 2437.3 | 2374.8 | 2034.4 | 1931.3 | 1832.7 | 1795.9 | 1678.0 | 1752.7 | 1794.0 | 2064.7 | 2774.5 |
| 32.5° | 2712.6 | 2694.5 | 2301.3 | 2145.3 | 1984.2 | 2026.7 | 1896.5 | 1830.7 | 1904.9 | 2256.8 | 3102.6 |
| 35° | 2976.2 | 2916.9 | 2583.7 | 2380.6 | 2211.1 | 2185.3 | 2100.8 | 2111.8 | 2156.9 | 2499.9 | 3531.2 |
| 37.5° | 3369.4 | 3337.2 | 2983.3 | 2658.4 | 2579.1 | 2474.1 | 2420.6 | 2454.7 | 2419.3 | 2811.2 | 4173.9 |
| 40° | 3809.1 | 3622.1 | 3317.2 | 3027.8 | 2879.5 | 2805.4 | 2824.1 | 2791.9 | 2764.8 | 3160.6 | 4750.2 |
| 42.5° | 4230.0 | 4059.8 | 3539.0 | 3408.8 | 3215.4 | 3246.3 | 3143.8 | 3166.4 | 3243.1 | 3656.3 | 5283.3 |
| 45° | 4688.3 | 4320.3 | 3774.3 | 3659.5 | 3520.9 | 3560.3 | 3642.1 | 3617.6 | 3743.3 | 4241.0 | 5785.5 |
| 47.5° | 4917.2 | 4567.2 | 4063.1 | 3876.1 | 3874.2 | 3792.3 | 4290.6 | 4344.8 | 4148.2 | 4674.2 | 6295.4 |
| 50° | 5137.7 | 4793.4 | 4277.7 | 4151.4 | 4059.8 | 4235.2 | 4912.7 | 4788.3 | 4514.3 | 5171.2 | 6856.2 |
| 52.5° | 5444.5 | 5051.9 | 4524.0 | 4389.2 | 4502.7 | 4665.1 | 5409.0 | 5384.5 | 4873.4 | 5682.4 | 7343.6 |
| 55° | 5678.5 | 5282.0 | 4894.6 | 4769.6 | 4986.2 | 5145.4 | 5914.4 | 5766.8 | 5180.8 | 6057.5 | 7652.3 |
| 57.5° | 6088.5 | 5681.7 | 5441.9 | 5164.1 | 5553.4 | 5550.9 | 6401.8 | 6287.7 | 5509.6 | 6365.7 | 7776.7 |
| 60° | 6740.2 | 6262.5 | 6011.8 | 5691.4 | 6108.5 | 6257.4 | 6958.7 | 6630.0 | 5742.3 | 6560.3 | 7552.4 |
| 62.5° | 7654.9 | 7087.6 | 6680.9 | 6363.7 | 6872.3 | 7141.8 | 7646.5 | 6879.4 | 5757.1 | 6504.9 | 6962.6 |
| 65° | 8786.2 | 8096.5 | 7563.4 | 7228.2 | 8067.5 | 8452.3 | 8478.1 | 7033.5 | 5620.5 | 5931.8 | 5722.3 |
| 67.5° | 9889.8 | 9114.3 | 8558.0 | 8621.8 | 9847.3 | 10029.7 | 9379.3 | 7162.4 | 4886.2 | 4763.1 | 3973.5 |
| 70° | 10616.3 | 9775.7 | 9405.1 | 10081.9 | 11943.6 | 11756.7 | 10109.6 | 6822.7 | 3847.8 | 3087.7 | 2237.5 |
| 72.5° | 10561.5 | 9681.6 | 9548.2 | 10949.6 | 13443.0 | 13326.3 | 10198.6 | 5425.8 | 2577.2 | 1688.3 | 1115.8 |
| 75° | 8604.4 | 7920.5 | 8223.5 | 10365.6 | 13011.1 | 13005.3 | 8854.6 | 3358.5 | 1322.1 | 867.0 | 705.2 |
| 77.5° | 4757.3 | 4491.7 | 5382.0 | 7848.3 | 10359.8 | 10412.6 | 5982.8 | 1523.2 | 713.0 | 614.3 | 531.2 |
| 80° | 1666.4 | 1641.9 | 2332.2 | 4235.2 | 6815.0 | 6827.9 | 2782.2 | 696.8 | 518.3 | 464.8 | 390.0 |
| 82.5° | 609.2 | 604.0 | 966.9 | 1967.4 | 3752.4 | 3744.0 | 1055.2 | 433.8 | 384.2 | 328.8 | 257.2 |
| 85° | 243.0 | 237.9 | 442.2 | 873.5 | 1723.7 | 1696.0 | 410.0 | 246.2 | 251.4 | 196.0 | 126.3 |
| 87.5° | 67.0 | 69.6 | 150.2 | 273.3 | 527.9 | 489.3 | 103.1 | 83.2 | 101.9 | 79.9 | 40.0 |
| 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° | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 | 814.8 |
| 2.5° | 979.2 | 985.6 | 921.8 | 944.4 | 973.4 | 988.9 | 996.6 | 963.7 | 974.7 | 1021.1 | 1019.2 |
| 5° | 1256.4 | 1230.6 | 1206.1 | 1231.2 | 1214.5 | 1190.6 | 1229.3 | 1227.4 | 1252.5 | 1277.6 | 1283.4 |
| 7.5° | 1463.3 | 1429.8 | 1418.2 | 1361.4 | 1304.7 | 1247.3 | 1297.0 | 1327.9 | 1334.4 | 1396.9 | 1423.3 |
| 10° | 1538.1 | 1525.2 | 1529.7 | 1454.9 | 1447.8 | 1453.6 | 1407.9 | 1358.2 | 1388.5 | 1362.7 | 1382.1 |
| 12.5° | 1710.8 | 1743.1 | 1663.1 | 1612.2 | 1607.7 | 1572.2 | 1480.7 | 1448.5 | 1414.3 | 1449.8 | 1431.7 |
| 15° | 1849.4 | 1909.4 | 1823.6 | 1734.0 | 1632.8 | 1578.0 | 1500.0 | 1451.0 | 1428.5 | 1436.2 | 1414.3 |
| 17.5° | 2052.5 | 2108.6 | 1890.7 | 1753.4 | 1648.9 | 1568.4 | 1449.1 | 1344.7 | 1400.1 | 1404.6 | 1379.5 |
| 20° | 2187.2 | 2191.1 | 1913.2 | 1705.7 | 1611.6 | 1471.7 | 1355.6 | 1264.1 | 1327.9 | 1393.0 | 1421.4 |
| 22.5° | 2318.7 | 2289.7 | 1941.0 | 1667.6 | 1475.5 | 1340.2 | 1283.4 | 1277.6 | 1325.3 | 1380.1 | 1386.6 |
| 25° | 2417.3 | 2421.9 | 1957.1 | 1653.5 | 1395.6 | 1211.2 | 1211.2 | 1253.1 | 1295.0 | 1425.3 | 1418.8 |
| 27.5° | 2656.5 | 2480.5 | 1894.5 | 1588.4 | 1284.7 | 1135.8 | 1211.9 | 1268.0 | 1288.0 | 1429.1 | 1443.3 |
| 30° | 2830.5 | 2715.8 | 1907.4 | 1476.8 | 1172.6 | 1100.4 | 1162.9 | 1233.2 | 1288.6 | 1451.7 | 1446.5 |
| 32.5° | 3122.6 | 2813.8 | 1937.7 | 1320.2 | 1088.8 | 1086.8 | 1142.3 | 1216.4 | 1282.8 | 1427.2 | 1434.9 |
| 35° | 3445.5 | 3102.6 | 1853.3 | 1200.9 | 1068.8 | 1079.1 | 1150.7 | 1180.3 | 1258.3 | 1417.5 | 1424.6 |
| 37.5° | 4043.1 | 3253.4 | 1799.8 | 1108.8 | 1055.9 | 1085.5 | 1112.6 | 1158.4 | 1237.0 | 1369.2 | 1415.6 |
| 40° | 4393.8 | 3564.1 | 1601.2 | 1055.2 | 1028.8 | 1080.4 | 1093.9 | 1132.6 | 1175.1 | 1311.2 | 1340.8 |
| 42.5° | 4855.3 | 3662.1 | 1431.7 | 995.9 | 1015.3 | 1059.1 | 1099.7 | 1109.4 | 1137.8 | 1219.6 | 1273.8 |
| 45° | 5240.1 | 3735.6 | 1251.9 | 948.2 | 969.5 | 1106.2 | 1108.8 | 1104.2 | 1099.1 | 1129.4 | 1173.9 |
| 47.5° | 5638.5 | 3932.9 | 1086.2 | 895.4 | 952.1 | 1144.9 | 1113.3 | 1072.0 | 1050.7 | 1054.6 | 1095.9 |
| 50° | 6078.2 | 4076.0 | 968.9 | 852.2 | 956.0 | 1144.9 | 1135.2 | 1039.1 | 996.6 | 985.6 | 1028.8 |
| 52.5° | 6464.9 | 4092.7 | 879.9 | 817.4 | 939.9 | 1105.5 | 1150.0 | 1018.5 | 947.0 | 920.5 | 961.1 |
| 55° | 6675.7 | 3880.6 | 815.4 | 785.8 | 898.6 | 1070.1 | 1142.3 | 1006.9 | 887.0 | 867.0 | 903.1 |
| 57.5° | 6671.2 | 3528.7 | 760.7 | 742.0 | 851.5 | 1020.4 | 1099.1 | 943.7 | 850.3 | 838.7 | 874.1 |
| 60° | 6430.8 | 3116.1 | 718.8 | 705.9 | 803.2 | 948.2 | 1021.7 | 902.5 | 814.8 | 809.0 | 847.7 |
| 62.5° | 5885.4 | 2690.0 | 678.1 | 667.8 | 758.1 | 897.3 | 985.0 | 856.7 | 778.1 | 777.4 | 814.2 |
| 65° | 4819.9 | 2159.5 | 640.1 | 637.5 | 716.2 | 847.0 | 950.2 | 818.0 | 740.0 | 752.9 | 790.3 |
| 67.5° | 3321.1 | 1517.4 | 599.5 | 607.2 | 677.5 | 798.7 | 923.7 | 792.2 | 700.1 | 726.5 | 760.0 |
| 70° | 1822.4 | 938.6 | 554.4 | 569.8 | 628.5 | 742.6 | 882.5 | 750.3 | 647.8 | 688.5 | 711.7 |
| 72.5° | 927.0 | 625.9 | 498.3 | 522.8 | 568.6 | 660.1 | 805.1 | 689.7 | 591.8 | 607.2 | 619.5 |
| 75° | 622.7 | 471.2 | 435.8 | 462.8 | 495.7 | 581.5 | 714.2 | 633.0 | 538.3 | 536.3 | 549.9 |
| 77.5° | 470.6 | 368.1 | 370.0 | 401.0 | 422.2 | 511.2 | 642.0 | 585.3 | 493.1 | 488.6 | 508.6 |
| 80° | 344.2 | 279.1 | 297.8 | 330.0 | 349.4 | 459.0 | 595.0 | 532.5 | 431.9 | 413.8 | 430.6 |
| 82.5° | 228.2 | 197.9 | 220.5 | 252.7 | 268.2 | 383.6 | 540.2 | 451.9 | 352.0 | 306.2 | 308.8 |
| 85° | 107.7 | 103.8 | 131.5 | 147.0 | 167.0 | 237.9 | 404.2 | 312.6 | 224.3 | 185.7 | 194.0 |
| 87.5° | 24.5 | 32.9 | 43.2 | 42.5 | 49.6 | 63.8 | 125.7 | 87.7 | 65.1 | 44.5 | 29.7 |
| 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)