

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: P367894

Luminaire Tested: **PMM-SA3B-760-U-T4FT**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367894
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-SA3B-760-U-T4FT
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) 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: 14734 lumens
Efficiency: N/A
Efficacy: 116.9 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): 126
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

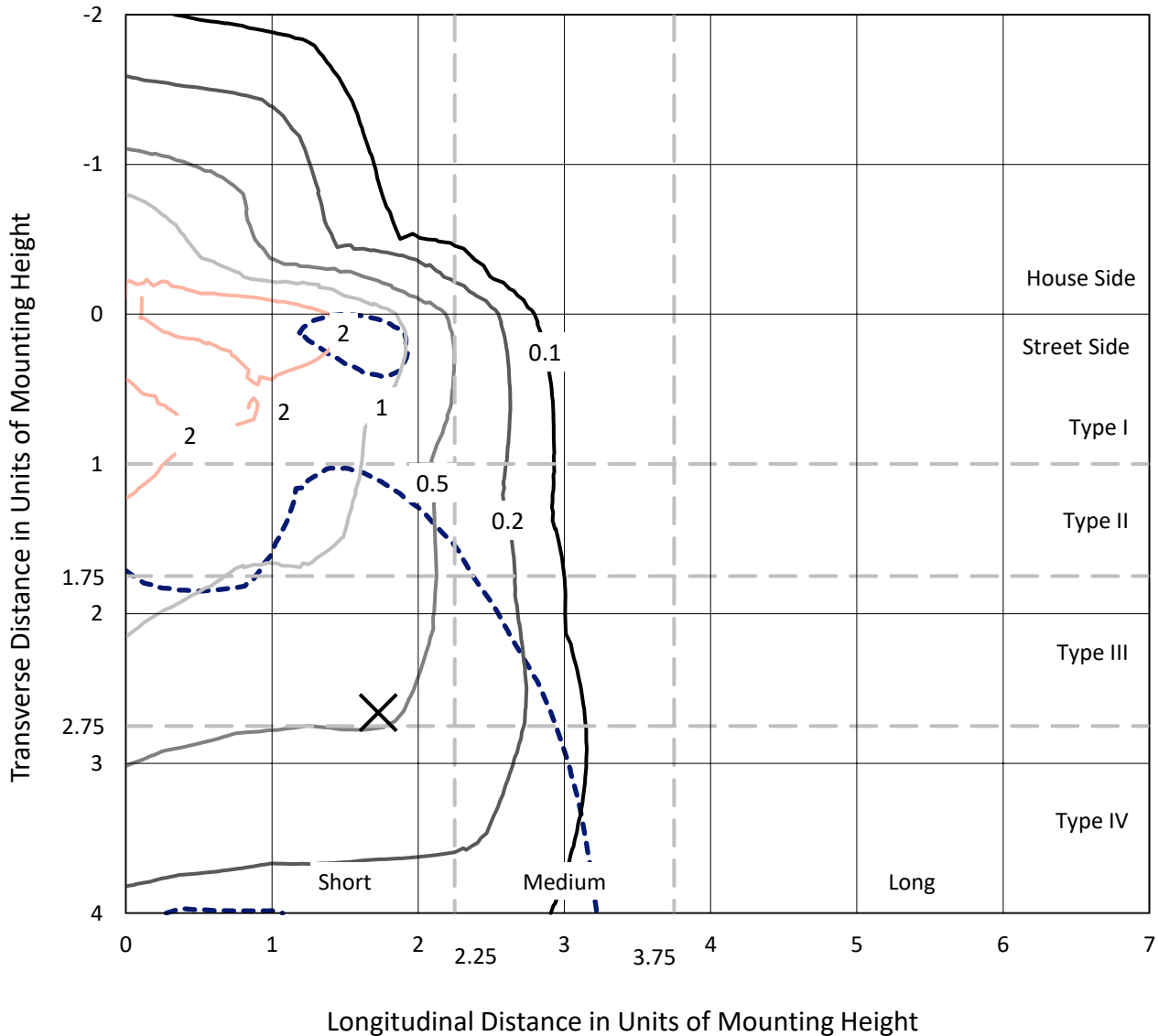


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Iso-Footcandle Lines of Horizontal Illumination

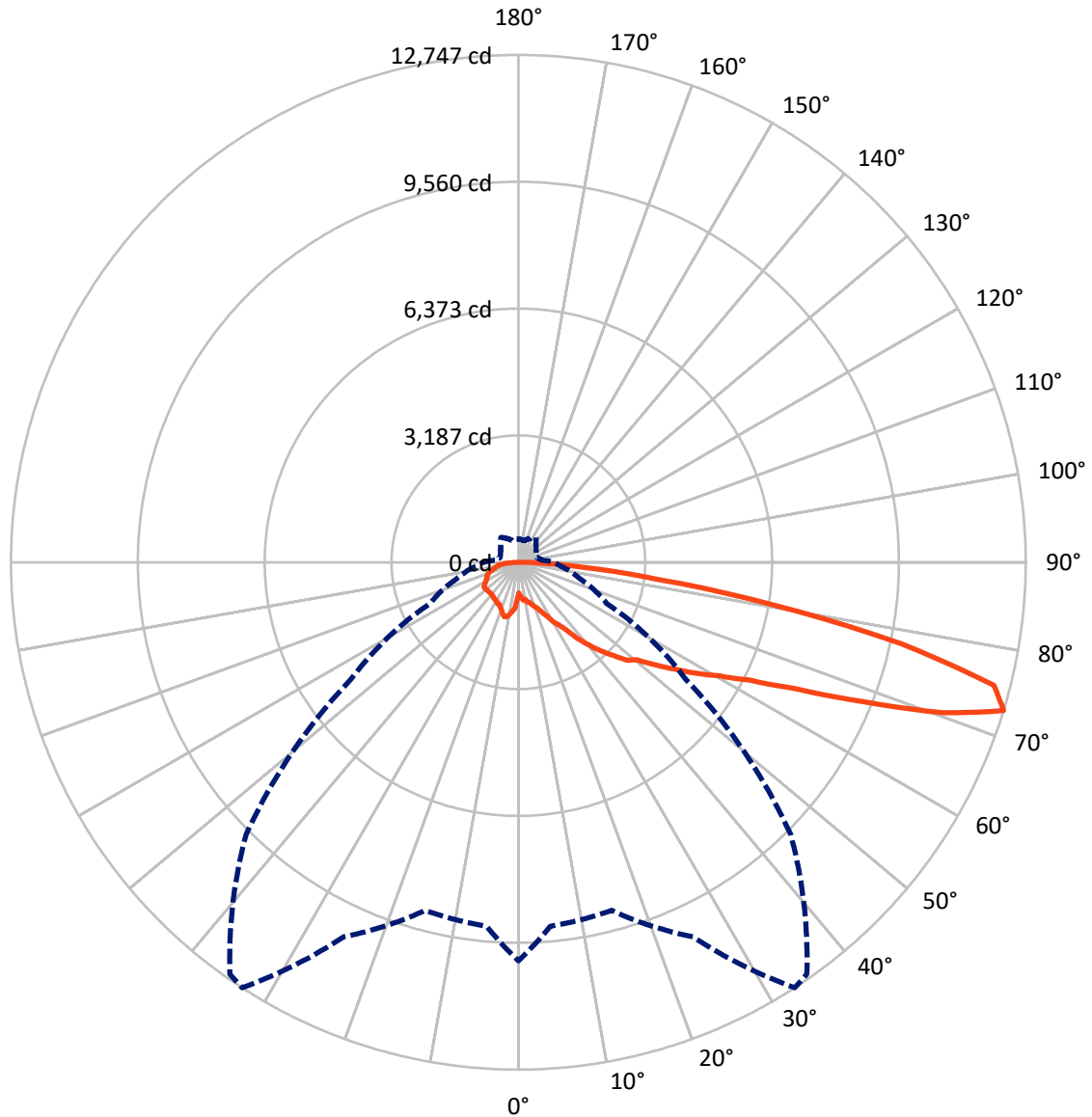
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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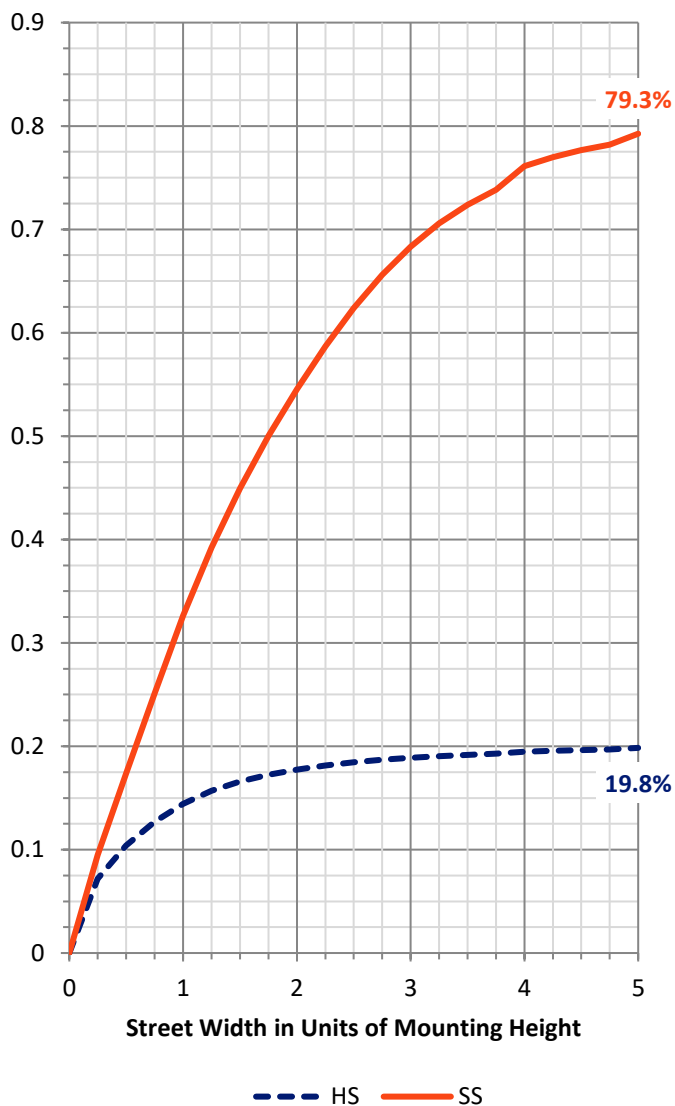
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2980.7 | 0.0 | 2980.7 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 11753.3 | 0.0 | 11753.3 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 14734.0 | 0.0 | 14734.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 106.2 | 0.7 |
| 10°-20° | 392.6 | 2.7 |
| 20°-30° | 715.9 | 4.9 |
| 30°-40° | 1211.1 | 8.2 |
| 40°-50° | 2014.8 | 13.7 |
| 50°-60° | 2956.9 | 20.1 |
| 60°-70° | 3782.5 | 25.7 |
| 70°-80° | 3077.4 | 20.9 |
| 80°-90° | 476.6 | 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° | 14734.0 | 100.0 |
| 0°-180° | 14734.0 | 100.0 |



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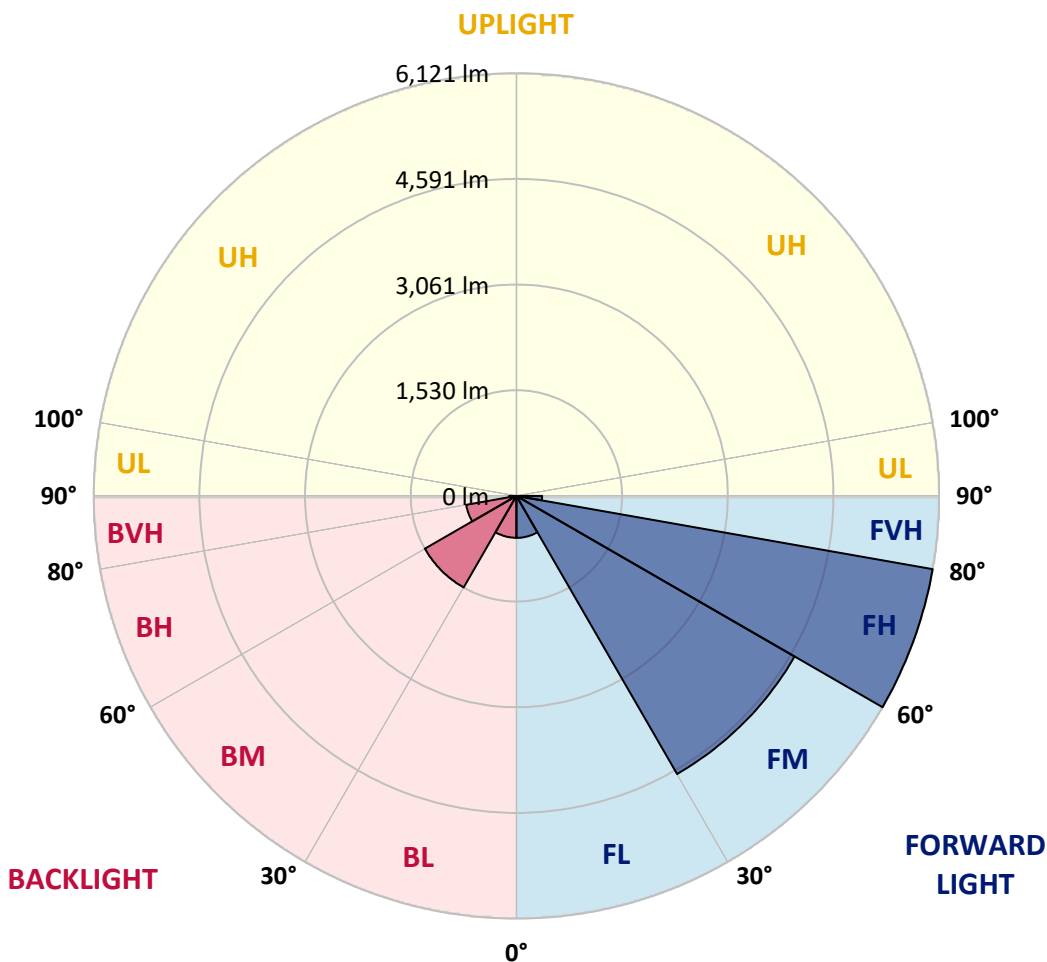
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 608.1 | 4.1 | | | |
| FM (30°-60°) | 4651.9 | 31.6 | | | |
| FH (60°-80°) | 6121.4 | 41.5 | | | G3/7500 |
| FVH (80°-90°) | 372.0 | 2.5 | | | G3/500 |
| BL (0°-30°) | 606.6 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 1530.9 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 738.6 | 5.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 104.6 | 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° | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 |
| 2.5° | 875.9 | 848.4 | 803.2 | 801.9 | 827.0 | 832.5 | 849.0 | 850.2 | 856.3 | 846.6 | 916.2 |
| 5° | 966.4 | 937.0 | 919.3 | 925.4 | 913.8 | 927.8 | 927.8 | 968.2 | 1022.0 | 1084.3 | 1172.9 |
| 7.5° | 987.7 | 966.4 | 946.2 | 961.5 | 963.9 | 950.5 | 963.3 | 1058.0 | 1155.2 | 1217.6 | 1359.4 |
| 10° | 945.0 | 923.6 | 938.8 | 943.7 | 943.1 | 973.7 | 1040.3 | 1116.1 | 1224.3 | 1339.2 | 1415.6 |
| 12.5° | 937.0 | 952.3 | 959.6 | 968.2 | 1026.3 | 1035.4 | 1136.3 | 1214.5 | 1323.3 | 1424.2 | 1622.8 |
| 15° | 1055.0 | 1075.2 | 1029.9 | 1026.9 | 1045.8 | 1054.4 | 1158.9 | 1237.7 | 1396.7 | 1566.0 | 1744.4 |
| 17.5° | 1223.1 | 1230.4 | 1149.1 | 1107.5 | 1121.6 | 1128.3 | 1174.2 | 1273.2 | 1371.0 | 1683.9 | 1906.4 |
| 20° | 1385.7 | 1390.5 | 1237.7 | 1144.8 | 1194.3 | 1201.7 | 1244.5 | 1301.3 | 1378.3 | 1749.9 | 2015.8 |
| 22.5° | 1556.2 | 1525.0 | 1357.5 | 1240.2 | 1268.9 | 1270.7 | 1295.8 | 1327.0 | 1436.4 | 1739.6 | 2149.1 |
| 25° | 1742.6 | 1723.1 | 1512.2 | 1399.7 | 1398.5 | 1373.4 | 1374.7 | 1419.3 | 1498.1 | 1850.8 | 2236.5 |
| 27.5° | 1990.2 | 1992.6 | 1686.4 | 1625.9 | 1531.1 | 1514.6 | 1432.1 | 1515.2 | 1605.1 | 1852.0 | 2425.4 |
| 30° | 2311.1 | 2251.8 | 1929.0 | 1831.2 | 1737.7 | 1702.9 | 1591.0 | 1661.9 | 1701.1 | 1957.8 | 2630.7 |
| 32.5° | 2572.1 | 2554.9 | 2182.1 | 2034.2 | 1881.4 | 1921.7 | 1798.2 | 1735.9 | 1806.2 | 2139.9 | 2941.8 |
| 35° | 2822.0 | 2765.8 | 2449.8 | 2257.3 | 2096.5 | 2072.1 | 1992.0 | 2002.4 | 2045.2 | 2370.3 | 3348.3 |
| 37.5° | 3194.9 | 3164.3 | 2828.8 | 2520.7 | 2445.5 | 2345.9 | 2295.2 | 2327.6 | 2293.9 | 2665.6 | 3957.7 |
| 40° | 3611.8 | 3434.5 | 3145.4 | 2870.9 | 2730.4 | 2660.1 | 2677.8 | 2647.2 | 2621.6 | 2996.9 | 4504.1 |
| 42.5° | 4010.9 | 3849.5 | 3355.6 | 3232.2 | 3048.8 | 3078.1 | 2981.0 | 3002.4 | 3075.1 | 3466.9 | 5009.6 |
| 45° | 4445.5 | 4096.5 | 3578.7 | 3469.9 | 3338.5 | 3375.8 | 3453.4 | 3430.2 | 3549.4 | 4021.3 | 5485.8 |
| 47.5° | 4662.5 | 4330.6 | 3852.6 | 3675.3 | 3673.5 | 3595.9 | 4068.3 | 4119.7 | 3933.3 | 4432.0 | 5969.3 |
| 50° | 4871.5 | 4545.1 | 4056.1 | 3936.3 | 3849.5 | 4015.8 | 4658.2 | 4540.2 | 4280.4 | 4903.3 | 6501.0 |
| 52.5° | 5162.4 | 4790.2 | 4289.6 | 4161.9 | 4269.4 | 4423.5 | 5128.8 | 5105.6 | 4620.9 | 5388.0 | 6963.1 |
| 55° | 5384.3 | 5008.4 | 4641.1 | 4522.5 | 4727.9 | 4878.8 | 5608.0 | 5468.1 | 4912.4 | 5743.7 | 7255.9 |
| 57.5° | 5773.1 | 5387.4 | 5160.0 | 4896.6 | 5265.7 | 5263.3 | 6070.1 | 5961.9 | 5224.2 | 6035.9 | 7373.9 |
| 60° | 6391.0 | 5938.1 | 5700.3 | 5396.5 | 5792.0 | 5933.2 | 6598.2 | 6286.5 | 5444.8 | 6220.5 | 7161.2 |
| 62.5° | 7258.3 | 6720.5 | 6334.8 | 6034.1 | 6516.3 | 6771.8 | 7250.4 | 6523.0 | 5458.9 | 6167.9 | 6601.9 |
| 65° | 8331.1 | 7677.0 | 7171.6 | 6853.7 | 7649.5 | 8014.4 | 8038.9 | 6669.1 | 5329.3 | 5624.5 | 5425.9 |
| 67.5° | 9377.5 | 8642.2 | 8114.7 | 8175.2 | 9337.1 | 9510.1 | 8893.4 | 6791.4 | 4633.1 | 4516.4 | 3767.6 |
| 70° | 10066.3 | 9269.3 | 8917.8 | 9559.6 | 11324.9 | 11147.6 | 9585.9 | 6469.2 | 3648.4 | 2927.8 | 2121.6 |
| 72.5° | 10014.4 | 9180.1 | 9053.5 | 10382.3 | 12746.6 | 12635.9 | 9670.3 | 5144.7 | 2443.7 | 1600.8 | 1058.0 |
| 75° | 8158.7 | 7510.2 | 7797.4 | 9828.6 | 12337.0 | 12331.5 | 8395.8 | 3184.5 | 1253.6 | 822.1 | 668.7 |
| 77.5° | 4510.9 | 4259.0 | 5103.2 | 7441.7 | 9823.1 | 9873.2 | 5672.8 | 1444.3 | 676.0 | 582.5 | 503.7 |
| 80° | 1580.0 | 1556.8 | 2211.4 | 4015.8 | 6461.9 | 6474.1 | 2638.1 | 660.7 | 491.4 | 440.7 | 369.8 |
| 82.5° | 577.6 | 572.7 | 916.8 | 1865.5 | 3558.0 | 3550.0 | 1000.6 | 411.4 | 364.3 | 311.7 | 243.9 |
| 85° | 230.4 | 225.5 | 419.3 | 828.2 | 1634.4 | 1608.1 | 388.7 | 233.5 | 238.4 | 185.8 | 119.8 |
| 87.5° | 63.6 | 66.0 | 142.4 | 259.2 | 500.6 | 463.9 | 97.8 | 78.8 | 96.6 | 75.8 | 37.9 |
| 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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CATALOG NUMBER: PMM-SA3B-760-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 | 772.6 |
| 2.5° | 928.5 | 934.6 | 874.1 | 895.5 | 923.0 | 937.6 | 945.0 | 913.8 | 924.2 | 968.2 | 966.4 |
| 5° | 1191.3 | 1166.8 | 1143.6 | 1167.4 | 1151.6 | 1128.9 | 1165.6 | 1163.8 | 1187.6 | 1211.5 | 1217.0 |
| 7.5° | 1387.5 | 1355.7 | 1344.7 | 1290.9 | 1237.1 | 1182.7 | 1229.8 | 1259.1 | 1265.2 | 1324.5 | 1349.6 |
| 10° | 1458.4 | 1446.2 | 1450.4 | 1379.5 | 1372.8 | 1378.3 | 1334.9 | 1287.9 | 1316.6 | 1292.1 | 1310.5 |
| 12.5° | 1622.2 | 1652.8 | 1577.0 | 1528.7 | 1524.4 | 1490.8 | 1404.0 | 1373.4 | 1341.0 | 1374.7 | 1357.5 |
| 15° | 1753.6 | 1810.5 | 1729.2 | 1644.2 | 1548.2 | 1496.3 | 1422.3 | 1375.9 | 1354.5 | 1361.8 | 1341.0 |
| 17.5° | 1946.2 | 1999.3 | 1792.7 | 1662.5 | 1563.5 | 1487.1 | 1374.0 | 1275.0 | 1327.6 | 1331.9 | 1308.0 |
| 20° | 2073.9 | 2077.6 | 1814.1 | 1617.3 | 1528.1 | 1395.4 | 1285.4 | 1198.6 | 1259.1 | 1320.9 | 1347.8 |
| 22.5° | 2198.6 | 2171.1 | 1840.4 | 1581.2 | 1399.1 | 1270.7 | 1217.0 | 1211.5 | 1256.7 | 1308.6 | 1314.8 |
| 25° | 2292.1 | 2296.4 | 1855.7 | 1567.8 | 1323.3 | 1148.5 | 1148.5 | 1188.2 | 1228.0 | 1351.4 | 1345.3 |
| 27.5° | 2518.9 | 2352.0 | 1796.4 | 1506.1 | 1218.2 | 1077.0 | 1149.1 | 1202.3 | 1221.2 | 1355.1 | 1368.5 |
| 30° | 2683.9 | 2575.1 | 1808.6 | 1400.3 | 1111.8 | 1043.4 | 1102.7 | 1169.3 | 1221.8 | 1376.5 | 1371.6 |
| 32.5° | 2960.8 | 2668.0 | 1837.4 | 1251.8 | 1032.4 | 1030.5 | 1083.1 | 1153.4 | 1216.3 | 1353.3 | 1360.6 |
| 35° | 3267.0 | 2941.8 | 1757.3 | 1138.7 | 1013.4 | 1023.2 | 1091.0 | 1119.2 | 1193.1 | 1344.1 | 1350.8 |
| 37.5° | 3833.6 | 3084.9 | 1706.6 | 1051.3 | 1001.2 | 1029.3 | 1055.0 | 1098.4 | 1172.9 | 1298.3 | 1342.3 |
| 40° | 4166.1 | 3379.5 | 1518.3 | 1000.6 | 975.5 | 1024.4 | 1037.3 | 1073.9 | 1114.3 | 1243.2 | 1271.4 |
| 42.5° | 4603.8 | 3472.4 | 1357.5 | 944.3 | 962.7 | 1004.2 | 1042.8 | 1051.9 | 1078.8 | 1156.4 | 1207.8 |
| 45° | 4968.7 | 3542.1 | 1187.0 | 899.1 | 919.3 | 1048.9 | 1051.3 | 1047.0 | 1042.1 | 1070.9 | 1113.0 |
| 47.5° | 5346.4 | 3729.1 | 1029.9 | 849.0 | 902.8 | 1085.5 | 1055.6 | 1016.5 | 996.3 | 1000.0 | 1039.1 |
| 50° | 5763.3 | 3864.8 | 918.7 | 808.0 | 906.5 | 1085.5 | 1076.4 | 985.3 | 945.0 | 934.6 | 975.5 |
| 52.5° | 6130.0 | 3880.7 | 834.3 | 775.0 | 891.2 | 1048.3 | 1090.4 | 965.7 | 897.9 | 872.8 | 911.3 |
| 55° | 6329.9 | 3679.6 | 773.2 | 745.1 | 852.1 | 1014.6 | 1083.1 | 954.7 | 841.1 | 822.1 | 856.3 |
| 57.5° | 6325.6 | 3345.9 | 721.3 | 703.5 | 807.4 | 967.6 | 1042.1 | 894.8 | 806.2 | 795.2 | 828.8 |
| 60° | 6097.6 | 2954.7 | 681.5 | 669.3 | 761.6 | 899.1 | 968.8 | 855.7 | 772.6 | 767.1 | 803.8 |
| 62.5° | 5580.5 | 2550.7 | 643.0 | 633.2 | 718.8 | 850.8 | 934.0 | 812.3 | 737.8 | 737.1 | 772.0 |
| 65° | 4570.2 | 2047.6 | 607.0 | 604.5 | 679.1 | 803.2 | 901.0 | 775.6 | 701.7 | 713.9 | 749.4 |
| 67.5° | 3149.1 | 1438.8 | 568.4 | 575.8 | 642.4 | 757.3 | 875.9 | 751.2 | 663.8 | 688.9 | 720.6 |
| 70° | 1727.9 | 889.9 | 525.7 | 540.3 | 595.9 | 704.1 | 836.8 | 711.5 | 614.3 | 652.8 | 674.8 |
| 72.5° | 878.9 | 593.5 | 472.5 | 495.7 | 539.1 | 625.9 | 763.4 | 654.0 | 561.1 | 575.8 | 587.4 |
| 75° | 590.4 | 446.8 | 413.2 | 438.9 | 470.0 | 551.3 | 677.2 | 600.2 | 510.4 | 508.5 | 521.4 |
| 77.5° | 446.2 | 349.0 | 350.8 | 380.2 | 400.4 | 484.7 | 608.8 | 555.0 | 467.6 | 463.3 | 482.3 |
| 80° | 326.4 | 264.7 | 282.4 | 312.9 | 331.3 | 435.2 | 564.2 | 504.9 | 409.5 | 392.4 | 408.3 |
| 82.5° | 216.4 | 187.6 | 209.0 | 239.6 | 254.3 | 363.7 | 512.2 | 428.5 | 333.7 | 290.3 | 292.8 |
| 85° | 102.1 | 98.4 | 124.7 | 139.4 | 158.3 | 225.5 | 383.2 | 296.4 | 212.7 | 176.0 | 184.0 |
| 87.5° | 23.2 | 31.2 | 41.0 | 40.3 | 47.1 | 60.5 | 119.2 | 83.1 | 61.7 | 42.2 | 28.1 |
| 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)