

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: P367884

Luminaire Tested: **PMM-SA3B-760-U-SL4**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367884
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-SA3B-760-U-SL4
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) 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: 14319 lumens
Efficiency: N/A
Efficacy: 113.6 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

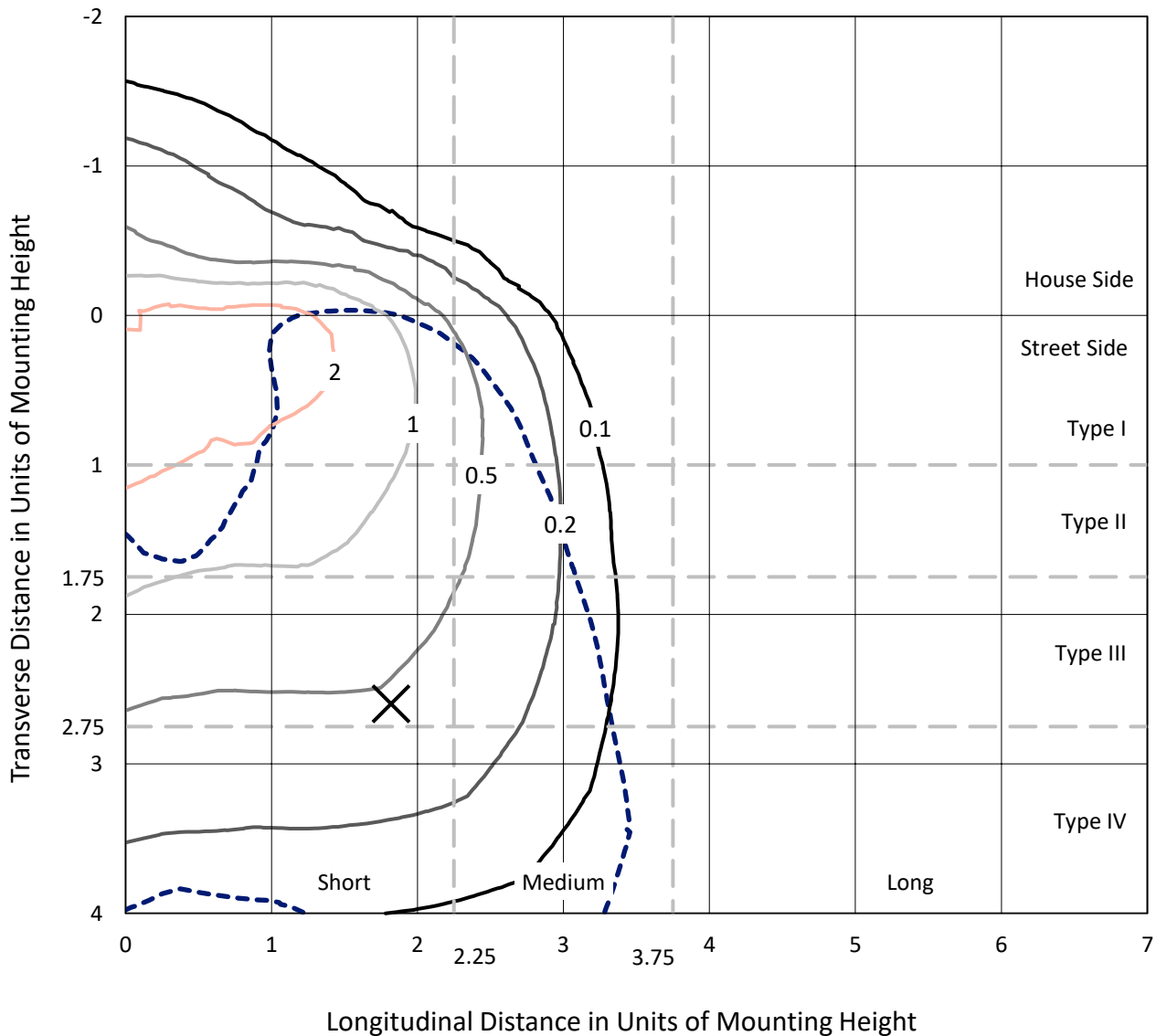


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Iso-Footcandle Lines of Horizontal Illumination

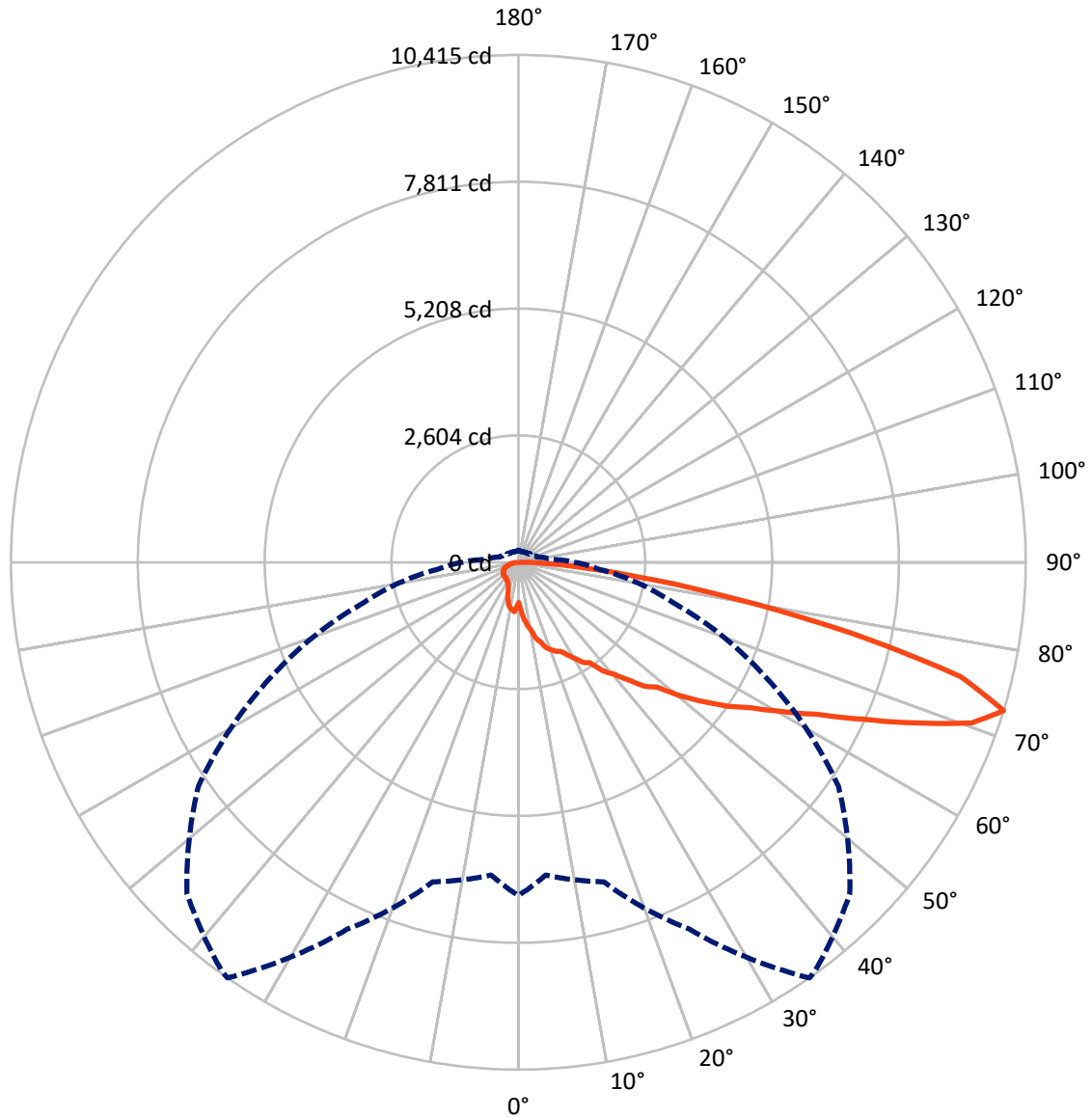
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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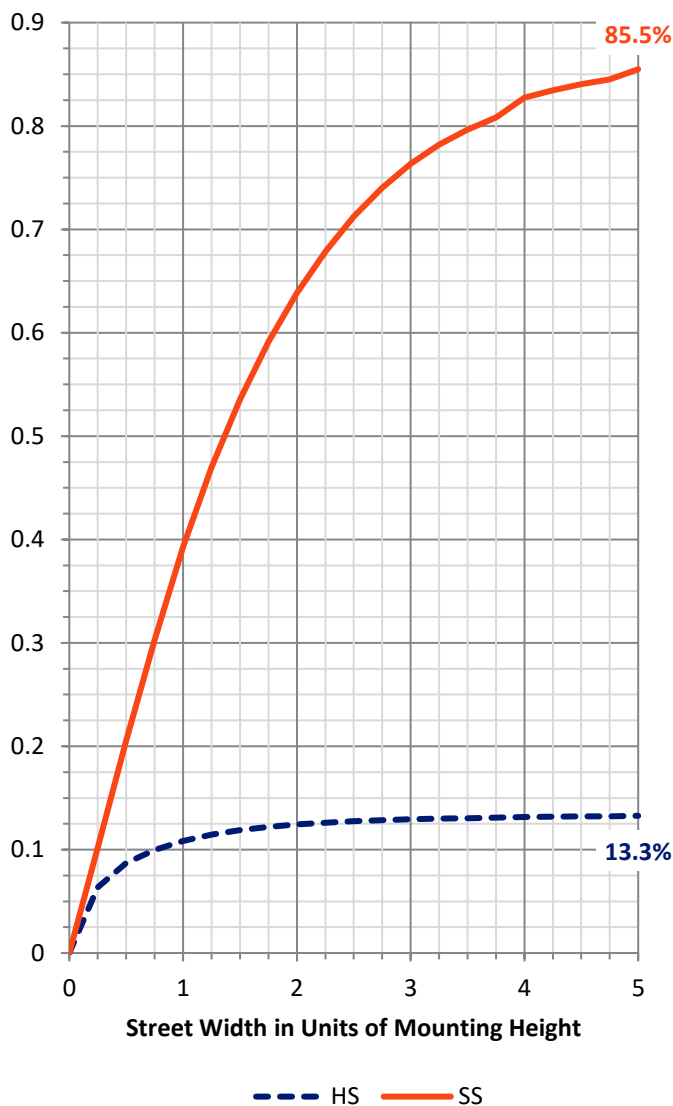
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1921.6 | 0.0 | 1921.6 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 12397.4 | 0.0 | 12397.4 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 14319.0 | 0.0 | 14319.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 110.0 | 0.8 |
| 10°-20° | 387.4 | 2.7 |
| 20°-30° | 673.1 | 4.7 |
| 30°-40° | 1125.0 | 7.9 |
| 40°-50° | 1952.7 | 13.6 |
| 50°-60° | 2951.9 | 20.6 |
| 60°-70° | 3824.2 | 26.7 |
| 70°-80° | 2821.8 | 19.7 |
| 80°-90° | 472.9 | 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° | 14319.0 | 100.0 |
| 0°-180° | 14319.0 | 100.0 |

Coefficient of Utilization



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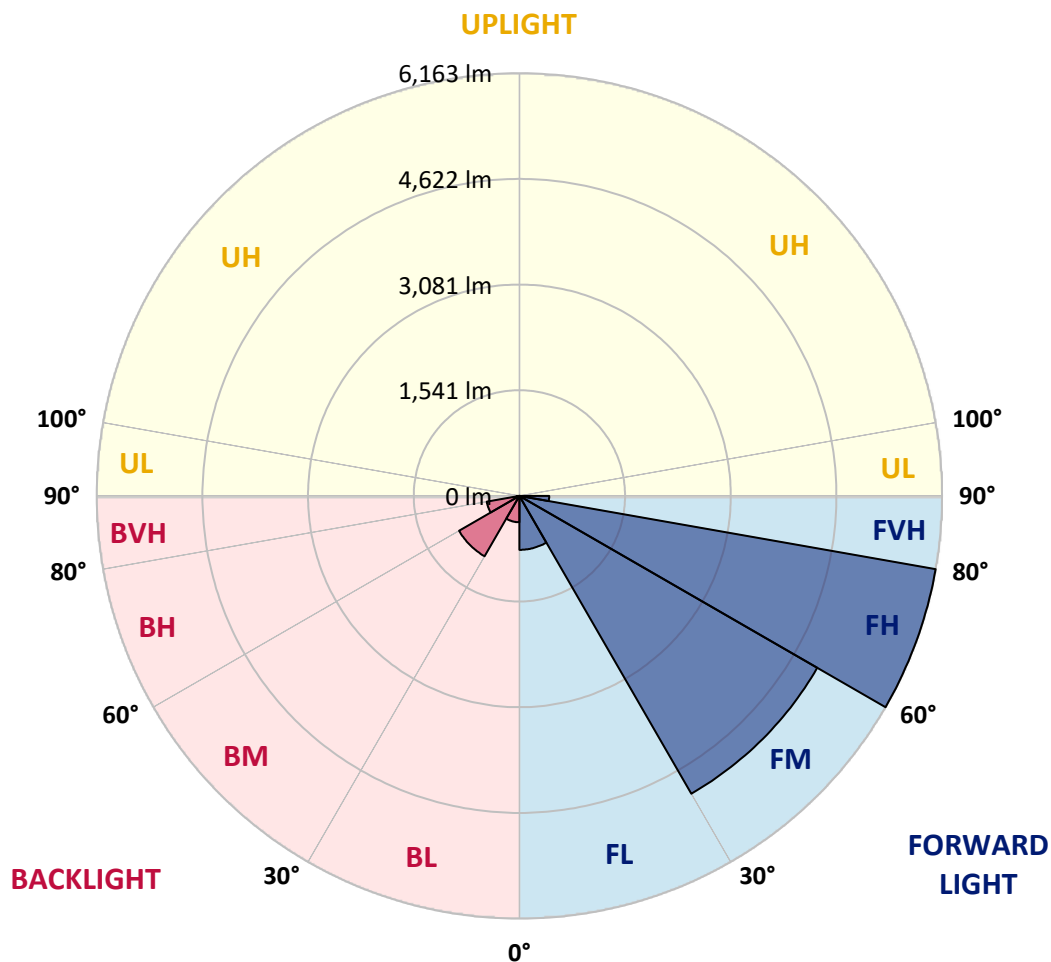
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 786.4 | 5.5 | | | |
| FM (30°-60°) | 5014.0 | 35.0 | | | |
| FH (60°-80°) | 6162.8 | 43.0 | | | G3/7500 |
| FVH (80°-90°) | 434.2 | 3.0 | | | G3/500 |
| BL (0°-30°) | 384.1 | 2.7 | B1/500 | | |
| BM (30°-60°) | 1015.6 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 483.2 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 38.7 | 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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 |
| 2.5° | 1032.2 | 982.7 | 940.0 | 938.1 | 977.8 | 993.1 | 987.0 | 973.6 | 957.7 | 924.1 | 997.4 |
| 5° | 1293.2 | 1222.3 | 1208.9 | 1193.0 | 1156.9 | 1166.7 | 1108.0 | 1152.6 | 1166.7 | 1199.1 | 1248.0 |
| 7.5° | 1447.2 | 1405.7 | 1373.3 | 1359.8 | 1297.5 | 1290.1 | 1246.8 | 1310.3 | 1337.2 | 1332.9 | 1405.7 |
| 10° | 1507.7 | 1469.8 | 1472.3 | 1428.3 | 1408.1 | 1416.7 | 1421.5 | 1422.8 | 1439.3 | 1452.7 | 1416.0 |
| 12.5° | 1538.9 | 1553.6 | 1607.3 | 1577.4 | 1603.1 | 1613.4 | 1664.8 | 1612.2 | 1614.1 | 1545.0 | 1582.9 |
| 15° | 1695.9 | 1732.6 | 1701.5 | 1700.2 | 1692.3 | 1709.4 | 1753.4 | 1718.0 | 1745.5 | 1723.5 | 1674.6 |
| 17.5° | 1885.4 | 1896.4 | 1836.5 | 1812.1 | 1843.8 | 1838.3 | 1827.3 | 1832.8 | 1764.4 | 1891.5 | 1831.6 |
| 20° | 1943.5 | 1986.9 | 1908.0 | 1812.1 | 1917.2 | 1931.2 | 1928.8 | 1905.0 | 1787.6 | 1971.0 | 1912.9 |
| 22.5° | 2112.1 | 2053.5 | 1991.1 | 1930.0 | 1983.8 | 1991.7 | 1978.3 | 1921.5 | 1882.4 | 1952.0 | 1997.9 |
| 25° | 2188.5 | 2174.5 | 2095.0 | 2087.7 | 2028.4 | 2000.3 | 2023.5 | 2007.0 | 1968.5 | 2092.6 | 2041.9 |
| 27.5° | 2363.3 | 2346.8 | 2164.1 | 2239.3 | 2153.1 | 2145.8 | 2022.9 | 2077.9 | 2116.4 | 2107.3 | 2183.0 |
| 30° | 2561.3 | 2580.3 | 2313.2 | 2388.4 | 2288.8 | 2275.3 | 2151.9 | 2221.5 | 2247.8 | 2256.4 | 2351.1 |
| 32.5° | 2781.4 | 2833.3 | 2568.1 | 2506.3 | 2453.2 | 2462.3 | 2357.8 | 2230.7 | 2332.8 | 2532.6 | 2573.6 |
| 35° | 3019.7 | 3041.1 | 2763.0 | 2670.1 | 2531.4 | 2521.6 | 2523.5 | 2539.3 | 2642.6 | 2870.6 | 2902.4 |
| 37.5° | 3460.3 | 3361.3 | 3117.5 | 2882.2 | 2835.8 | 2744.7 | 2806.4 | 2855.3 | 2958.6 | 3308.2 | 3441.4 |
| 40° | 3731.7 | 3658.4 | 3286.8 | 3150.5 | 3022.2 | 3030.7 | 3146.2 | 3145.6 | 3389.5 | 3750.0 | 3953.5 |
| 42.5° | 3982.9 | 3902.8 | 3552.6 | 3415.7 | 3294.1 | 3324.1 | 3357.1 | 3415.1 | 3882.7 | 4463.9 | 4556.8 |
| 45° | 4185.2 | 4009.8 | 3758.0 | 3727.4 | 3627.2 | 3587.5 | 3727.4 | 3820.3 | 4472.4 | 5041.4 | 5095.2 |
| 47.5° | 4322.7 | 4178.5 | 3932.2 | 3905.3 | 3831.3 | 3928.5 | 4310.5 | 4370.4 | 4929.6 | 5621.4 | 5617.1 |
| 50° | 4531.7 | 4334.3 | 4111.8 | 4097.8 | 4306.2 | 4358.1 | 4823.8 | 4817.7 | 5374.5 | 6103.0 | 6002.1 |
| 52.5° | 4772.5 | 4523.8 | 4282.3 | 4433.3 | 4751.1 | 4776.8 | 5180.7 | 5345.1 | 5860.3 | 6567.5 | 6304.0 |
| 55° | 5049.3 | 4771.3 | 4537.8 | 4739.5 | 5212.5 | 5136.7 | 5545.6 | 5947.1 | 6468.4 | 7057.0 | 6522.2 |
| 57.5° | 5392.2 | 5054.8 | 4866.0 | 5172.8 | 5633.6 | 5700.8 | 6068.1 | 6573.6 | 6958.0 | 7361.3 | 6681.1 |
| 60° | 5754.0 | 5358.0 | 5185.0 | 5477.2 | 6223.4 | 6300.4 | 6659.7 | 7094.3 | 7506.8 | 7648.0 | 6651.2 |
| 62.5° | 6099.3 | 5670.9 | 5514.4 | 5875.0 | 6877.3 | 7068.0 | 7333.2 | 7610.1 | 7963.3 | 7717.6 | 6288.8 |
| 65° | 6483.7 | 6054.7 | 5956.3 | 6497.2 | 7764.1 | 7953.5 | 8300.1 | 8217.0 | 8119.8 | 7470.7 | 5689.2 |
| 67.5° | 6890.8 | 6455.0 | 6473.3 | 7218.9 | 8809.8 | 8842.2 | 9374.5 | 8822.0 | 7935.8 | 6816.8 | 4682.7 |
| 70° | 7109.5 | 6663.4 | 6852.2 | 7988.4 | 9873.8 | 9827.3 | 9936.1 | 8984.6 | 7185.9 | 5388.5 | 3227.5 |
| 72.5° | 6844.3 | 6446.4 | 6792.4 | 8312.3 | 10415.3 | 10365.2 | 9620.8 | 8019.6 | 5618.3 | 3351.0 | 1673.3 |
| 75° | 5795.0 | 5411.1 | 5940.4 | 7409.6 | 9376.3 | 9422.8 | 8187.6 | 5963.6 | 3216.5 | 1347.6 | 694.9 |
| 77.5° | 3937.7 | 3739.6 | 4193.1 | 5523.0 | 6964.7 | 7125.4 | 6074.9 | 3487.2 | 1350.6 | 558.0 | 420.5 |
| 80° | 2081.0 | 1986.9 | 2321.8 | 3181.7 | 4410.1 | 4529.9 | 3572.2 | 1736.9 | 691.8 | 361.2 | 300.1 |
| 82.5° | 1130.6 | 1090.9 | 1270.6 | 1636.1 | 2505.7 | 2610.2 | 1852.4 | 1153.9 | 466.3 | 226.1 | 183.3 |
| 85° | 759.7 | 744.4 | 863.6 | 878.8 | 1185.0 | 1219.3 | 970.5 | 888.6 | 279.9 | 110.6 | 121.0 |
| 87.5° | 380.1 | 364.9 | 454.7 | 401.5 | 452.3 | 452.9 | 444.9 | 567.2 | 70.9 | 36.7 | 22.0 |
| 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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CATALOG NUMBER: PMM-SA3B-760-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 | 827.5 |
| 2.5° | 998.6 | 977.2 | 903.3 | 902.7 | 913.7 | 906.3 | 911.8 | 881.9 | 869.1 | 927.7 | 924.7 |
| 5° | 1241.3 | 1177.1 | 1115.4 | 1094.0 | 1068.9 | 1014.5 | 1017.6 | 1018.2 | 1009.0 | 1043.8 | 1046.3 |
| 7.5° | 1383.7 | 1306.6 | 1249.8 | 1136.1 | 1046.9 | 977.2 | 986.4 | 996.8 | 986.4 | 1032.8 | 1050.0 |
| 10° | 1404.4 | 1343.3 | 1275.5 | 1149.0 | 1089.7 | 1026.7 | 963.2 | 907.0 | 900.2 | 878.8 | 885.6 |
| 12.5° | 1527.9 | 1477.2 | 1335.4 | 1196.6 | 1127.6 | 1031.0 | 914.9 | 850.7 | 796.9 | 806.1 | 789.0 |
| 15° | 1629.3 | 1593.3 | 1423.4 | 1241.9 | 1076.9 | 957.1 | 833.6 | 745.6 | 697.3 | 691.8 | 674.7 |
| 17.5° | 1766.8 | 1715.5 | 1431.3 | 1210.7 | 1011.5 | 867.8 | 728.5 | 628.9 | 608.1 | 599.5 | 591.0 |
| 20° | 1832.8 | 1740.6 | 1402.6 | 1112.9 | 935.1 | 761.5 | 624.6 | 539.0 | 532.9 | 548.2 | 545.1 |
| 22.5° | 1890.3 | 1761.3 | 1376.9 | 1053.6 | 815.9 | 653.9 | 553.7 | 497.5 | 490.8 | 510.3 | 514.0 |
| 25° | 1923.9 | 1820.6 | 1348.8 | 993.1 | 741.9 | 573.9 | 500.5 | 468.8 | 470.0 | 495.6 | 492.6 |
| 27.5° | 2075.5 | 1841.4 | 1277.9 | 921.6 | 657.0 | 514.6 | 474.9 | 458.4 | 451.6 | 487.1 | 490.1 |
| 30° | 2170.8 | 1977.1 | 1262.0 | 845.8 | 594.0 | 471.2 | 451.6 | 444.9 | 443.7 | 486.5 | 489.5 |
| 32.5° | 2348.0 | 2022.3 | 1269.4 | 763.3 | 537.2 | 457.8 | 434.5 | 433.9 | 446.1 | 487.1 | 492.0 |
| 35° | 2593.7 | 2213.0 | 1233.9 | 716.3 | 506.0 | 437.0 | 421.1 | 426.0 | 446.8 | 491.4 | 498.1 |
| 37.5° | 3072.9 | 2392.7 | 1244.9 | 672.3 | 495.6 | 430.3 | 417.4 | 420.5 | 454.1 | 502.4 | 520.7 |
| 40° | 3452.4 | 2718.4 | 1227.8 | 650.3 | 481.6 | 429.0 | 409.5 | 421.7 | 453.5 | 508.5 | 525.0 |
| 42.5° | 4002.4 | 2978.1 | 1229.6 | 628.3 | 481.0 | 424.1 | 408.3 | 422.9 | 452.3 | 503.0 | 525.6 |
| 45° | 4474.3 | 3211.0 | 1255.9 | 615.4 | 474.9 | 432.1 | 406.4 | 424.8 | 444.3 | 483.4 | 508.5 |
| 47.5° | 4861.1 | 3470.7 | 1282.8 | 603.2 | 472.4 | 439.4 | 404.6 | 411.9 | 430.9 | 461.4 | 484.0 |
| 50° | 5176.5 | 3653.5 | 1317.0 | 600.8 | 472.4 | 435.8 | 399.7 | 399.1 | 415.0 | 439.4 | 460.8 |
| 52.5° | 5422.1 | 3782.4 | 1340.3 | 603.8 | 472.4 | 421.7 | 393.6 | 388.7 | 398.5 | 416.2 | 437.6 |
| 55° | 5600.0 | 3822.2 | 1321.3 | 611.8 | 471.8 | 408.9 | 382.6 | 378.3 | 383.2 | 395.4 | 415.6 |
| 57.5° | 5671.5 | 3717.6 | 1208.2 | 597.7 | 471.8 | 399.7 | 369.1 | 364.2 | 369.1 | 378.3 | 398.5 |
| 60° | 5492.4 | 3381.5 | 1045.1 | 561.6 | 462.6 | 387.5 | 353.9 | 350.8 | 358.1 | 366.1 | 385.6 |
| 62.5° | 5043.2 | 2934.8 | 870.9 | 518.9 | 443.7 | 377.1 | 339.2 | 339.8 | 351.4 | 362.4 | 382.0 |
| 65° | 4345.3 | 2394.5 | 726.0 | 475.5 | 419.9 | 360.6 | 323.9 | 328.2 | 344.7 | 359.4 | 378.9 |
| 67.5° | 3419.4 | 1774.2 | 611.2 | 433.3 | 386.2 | 333.7 | 306.8 | 308.0 | 319.6 | 333.7 | 352.6 |
| 70° | 2285.7 | 1128.8 | 502.4 | 383.8 | 342.2 | 298.9 | 280.5 | 276.2 | 273.2 | 285.4 | 301.9 |
| 72.5° | 1159.4 | 666.8 | 412.5 | 328.2 | 294.6 | 261.0 | 246.9 | 235.9 | 227.3 | 234.7 | 247.5 |
| 75° | 607.5 | 466.3 | 333.1 | 272.6 | 243.2 | 221.8 | 211.5 | 196.8 | 190.7 | 195.0 | 204.1 |
| 77.5° | 429.6 | 364.9 | 269.5 | 215.7 | 198.0 | 176.0 | 177.8 | 162.6 | 157.7 | 160.1 | 169.9 |
| 80° | 330.0 | 289.1 | 207.2 | 163.2 | 152.8 | 131.4 | 137.5 | 128.3 | 122.2 | 121.0 | 128.3 |
| 82.5° | 224.9 | 217.6 | 147.3 | 114.3 | 107.0 | 91.7 | 100.2 | 96.6 | 88.6 | 83.7 | 87.4 |
| 85° | 151.6 | 144.2 | 89.8 | 66.0 | 62.9 | 47.7 | 61.1 | 58.7 | 51.9 | 44.6 | 45.2 |
| 87.5° | 26.3 | 48.3 | 25.7 | 16.5 | 15.3 | 5.5 | 14.1 | 13.4 | 12.2 | 6.1 | 4.9 |
| 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)