

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: P367092

Luminaire Tested: **PMM-SA1D-760-U-SL4**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367092
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-SA1D-760-U-SL4
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) 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: 6680 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

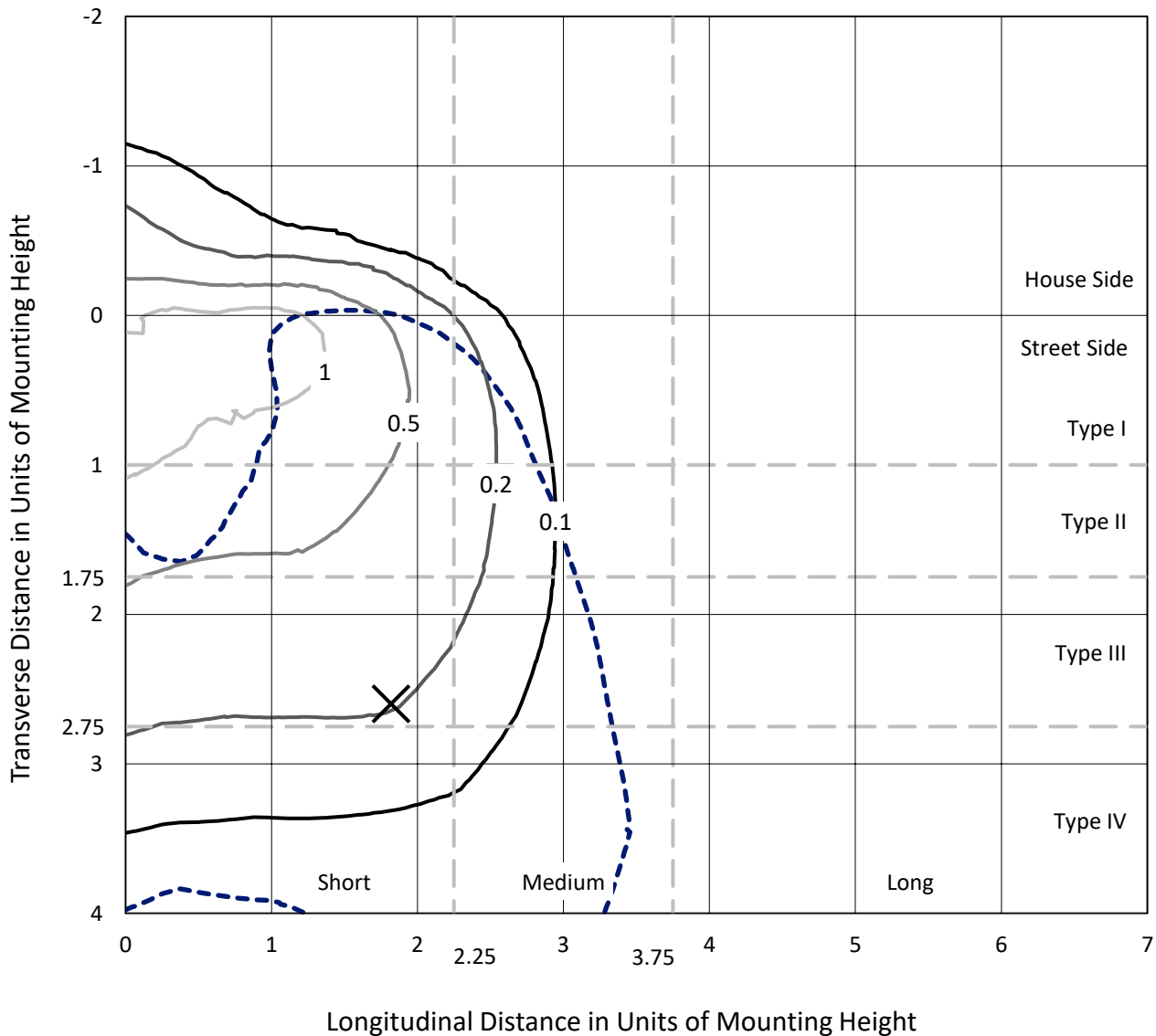


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Iso-Footcandle Lines of Horizontal Illumination

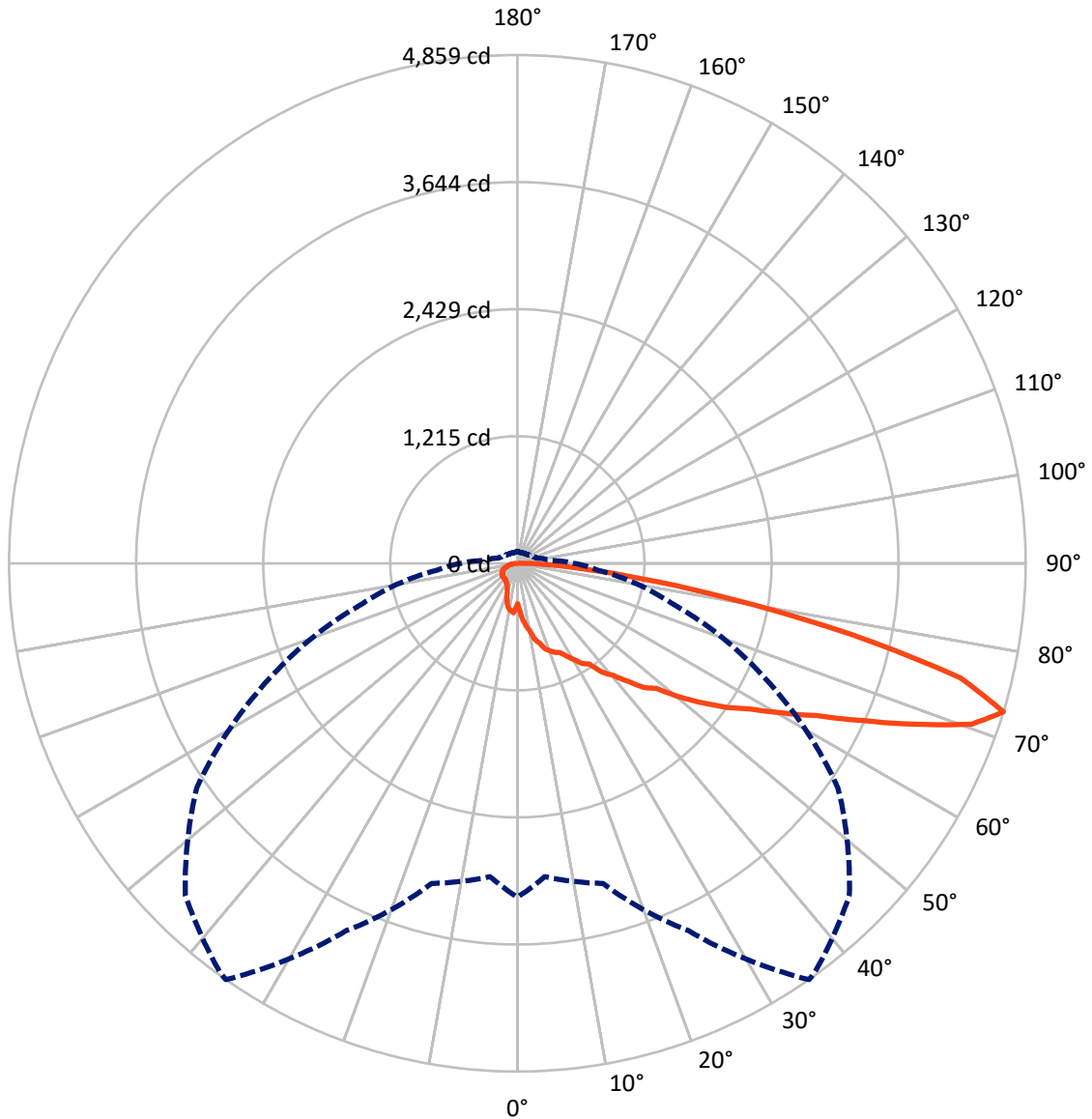
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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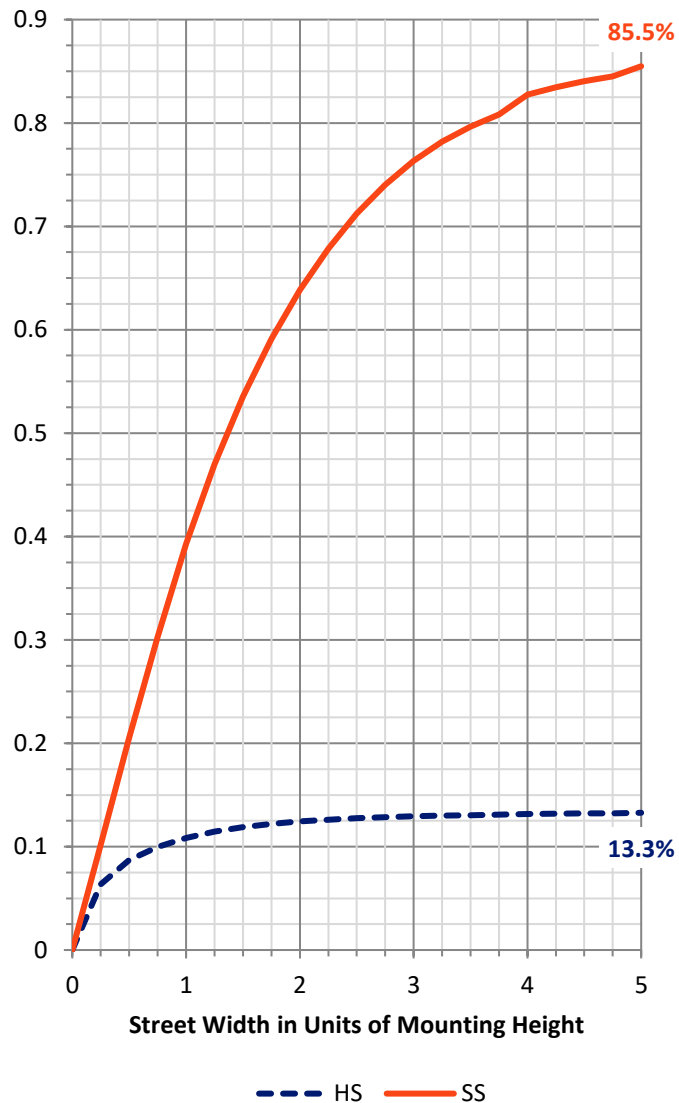
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 896.4 | 0.0 | 896.4 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 5783.6 | 0.0 | 5783.6 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 6680.0 | 0.0 | 6680.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.3 | 0.8 |
| 10°-20° | 180.7 | 2.7 |
| 20°-30° | 314.0 | 4.7 |
| 30°-40° | 524.8 | 7.9 |
| 40°-50° | 910.9 | 13.6 |
| 50°-60° | 1377.1 | 20.6 |
| 60°-70° | 1784.0 | 26.7 |
| 70°-80° | 1316.4 | 19.7 |
| 80°-90° | 220.6 | 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° | 6680.0 | 100.0 |
| 0°-180° | 6680.0 | 100.0 |

Coefficient of Utilization



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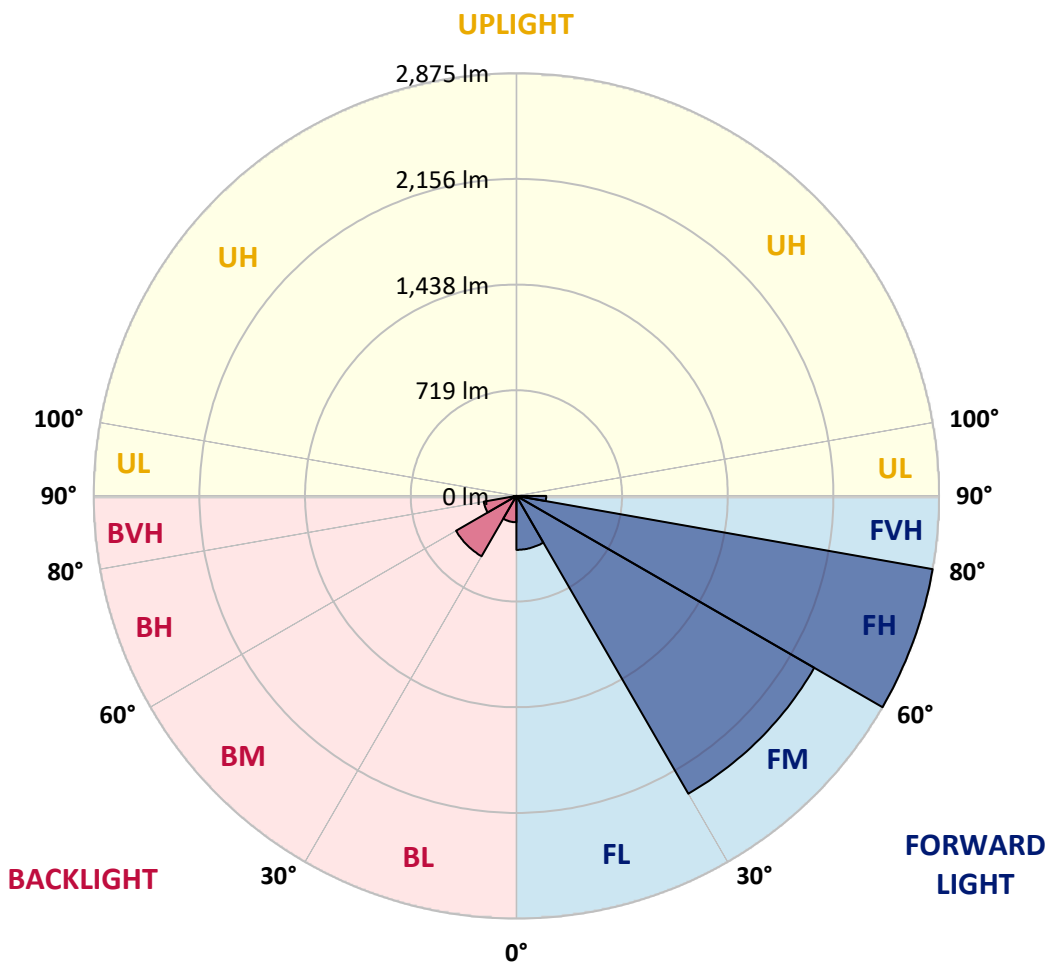
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 366.9 | 5.5 | | | |
| FM (30°-60°) | 2339.1 | 35.0 | | | |
| FH (60°-80°) | 2875.0 | 43.0 | | | G2/5000 |
| FVH (80°-90°) | 202.6 | 3.0 | | | G2/225 |
| BL (0°-30°) | 179.2 | 2.7 | B1/500 | | |
| BM (30°-60°) | 473.8 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 225.4 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 18.1 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 |
| 2.5° | 481.6 | 458.5 | 438.5 | 437.6 | 456.2 | 463.3 | 460.5 | 454.2 | 446.8 | 431.1 | 465.3 |
| 5° | 603.3 | 570.2 | 563.9 | 556.5 | 539.7 | 544.3 | 516.9 | 537.7 | 544.3 | 559.4 | 582.2 |
| 7.5° | 675.1 | 655.8 | 640.6 | 634.4 | 605.3 | 601.9 | 581.6 | 611.3 | 623.8 | 621.8 | 655.8 |
| 10° | 703.4 | 685.7 | 686.8 | 666.3 | 656.9 | 660.9 | 663.2 | 663.7 | 671.4 | 677.7 | 660.6 |
| 12.5° | 717.9 | 724.8 | 749.8 | 735.9 | 747.8 | 752.7 | 776.6 | 752.1 | 753.0 | 720.8 | 738.4 |
| 15° | 791.2 | 808.3 | 793.7 | 793.2 | 789.5 | 797.5 | 818.0 | 801.4 | 814.3 | 804.0 | 781.2 |
| 17.5° | 879.6 | 884.7 | 856.8 | 845.4 | 860.2 | 857.6 | 852.5 | 855.0 | 823.1 | 882.4 | 854.5 |
| 20° | 906.7 | 926.9 | 890.1 | 845.4 | 894.4 | 901.0 | 899.8 | 888.7 | 833.9 | 919.5 | 892.4 |
| 22.5° | 985.3 | 958.0 | 928.9 | 900.4 | 925.5 | 929.2 | 922.9 | 896.4 | 878.1 | 910.6 | 932.0 |
| 25° | 1021.0 | 1014.4 | 977.4 | 973.9 | 946.3 | 933.2 | 944.0 | 936.3 | 918.3 | 976.2 | 952.6 |
| 27.5° | 1102.5 | 1094.8 | 1009.6 | 1044.6 | 1004.4 | 1001.0 | 943.7 | 969.4 | 987.3 | 983.1 | 1018.4 |
| 30° | 1194.9 | 1203.7 | 1079.1 | 1114.2 | 1067.7 | 1061.5 | 1003.9 | 1036.4 | 1048.6 | 1052.6 | 1096.8 |
| 32.5° | 1297.5 | 1321.8 | 1198.0 | 1169.2 | 1144.4 | 1148.7 | 1100.0 | 1040.7 | 1088.3 | 1181.5 | 1200.6 |
| 35° | 1408.7 | 1418.7 | 1289.0 | 1245.6 | 1180.9 | 1176.4 | 1177.2 | 1184.6 | 1232.8 | 1339.2 | 1354.0 |
| 37.5° | 1614.3 | 1568.1 | 1454.4 | 1344.6 | 1322.9 | 1280.4 | 1309.2 | 1332.0 | 1380.2 | 1543.3 | 1605.5 |
| 40° | 1740.9 | 1706.7 | 1533.3 | 1469.7 | 1409.9 | 1413.9 | 1467.8 | 1467.5 | 1581.2 | 1749.4 | 1844.4 |
| 42.5° | 1858.1 | 1820.7 | 1657.3 | 1593.5 | 1536.7 | 1550.7 | 1566.1 | 1593.2 | 1811.3 | 2082.4 | 2125.8 |
| 45° | 1952.4 | 1870.6 | 1753.1 | 1738.9 | 1692.1 | 1673.6 | 1738.9 | 1782.2 | 2086.4 | 2351.9 | 2377.0 |
| 47.5° | 2016.6 | 1949.3 | 1834.4 | 1821.9 | 1787.4 | 1832.7 | 2010.9 | 2038.8 | 2299.7 | 2622.4 | 2620.5 |
| 50° | 2114.1 | 2022.0 | 1918.2 | 1911.7 | 2008.9 | 2033.1 | 2250.4 | 2247.5 | 2507.3 | 2847.1 | 2800.1 |
| 52.5° | 2226.4 | 2110.4 | 1997.8 | 2068.2 | 2216.5 | 2228.4 | 2416.9 | 2493.6 | 2733.9 | 3063.8 | 2940.9 |
| 55° | 2355.6 | 2225.9 | 2116.9 | 2211.0 | 2431.7 | 2396.4 | 2587.1 | 2774.4 | 3017.6 | 3292.2 | 3042.7 |
| 57.5° | 2515.5 | 2358.2 | 2270.1 | 2413.2 | 2628.2 | 2659.5 | 2830.9 | 3066.7 | 3246.0 | 3434.2 | 3116.8 |
| 60° | 2684.3 | 2499.6 | 2418.9 | 2555.2 | 2903.3 | 2939.2 | 3106.9 | 3309.6 | 3502.0 | 3567.9 | 3102.9 |
| 62.5° | 2845.4 | 2645.5 | 2572.6 | 2740.8 | 3208.4 | 3297.3 | 3421.0 | 3550.2 | 3715.0 | 3600.4 | 2933.8 |
| 65° | 3024.7 | 2824.6 | 2778.7 | 3031.0 | 3622.0 | 3710.4 | 3872.1 | 3833.3 | 3788.0 | 3485.2 | 2654.1 |
| 67.5° | 3214.6 | 3011.3 | 3019.9 | 3367.7 | 4109.9 | 4125.0 | 4373.3 | 4115.6 | 3702.2 | 3180.1 | 2184.5 |
| 70° | 3316.7 | 3108.6 | 3196.7 | 3726.7 | 4606.3 | 4584.6 | 4635.3 | 4191.4 | 3352.3 | 2513.8 | 1505.7 |
| 72.5° | 3193.0 | 3007.3 | 3168.7 | 3877.8 | 4858.9 | 4835.5 | 4488.2 | 3741.2 | 2621.0 | 1563.3 | 780.6 |
| 75° | 2703.4 | 2524.4 | 2771.3 | 3456.7 | 4374.2 | 4395.8 | 3819.6 | 2782.1 | 1500.5 | 628.7 | 324.2 |
| 77.5° | 1837.0 | 1744.6 | 1956.1 | 2576.5 | 3249.1 | 3324.1 | 2834.0 | 1626.8 | 630.1 | 260.3 | 196.2 |
| 80° | 970.8 | 926.9 | 1083.1 | 1484.3 | 2057.4 | 2113.2 | 1666.5 | 810.3 | 322.7 | 168.5 | 140.0 |
| 82.5° | 527.5 | 508.9 | 592.7 | 763.2 | 1169.0 | 1217.7 | 864.2 | 538.3 | 217.5 | 105.5 | 85.5 |
| 85° | 354.4 | 347.3 | 402.9 | 410.0 | 552.8 | 568.8 | 452.8 | 414.6 | 130.6 | 51.6 | 56.5 |
| 87.5° | 177.3 | 170.2 | 212.1 | 187.3 | 211.0 | 211.3 | 207.6 | 264.6 | 33.1 | 17.1 | 10.3 |
| 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-SA1D-760-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 | 386.0 |
| 2.5° | 465.9 | 455.9 | 421.4 | 421.1 | 426.2 | 422.8 | 425.4 | 411.4 | 405.4 | 432.8 | 431.4 |
| 5° | 579.1 | 549.1 | 520.3 | 510.3 | 498.7 | 473.3 | 474.7 | 475.0 | 470.7 | 487.0 | 488.1 |
| 7.5° | 645.5 | 609.6 | 583.1 | 530.0 | 488.4 | 455.9 | 460.2 | 465.0 | 460.2 | 481.8 | 489.8 |
| 10° | 655.2 | 626.7 | 595.0 | 536.0 | 508.4 | 479.0 | 449.3 | 423.1 | 420.0 | 410.0 | 413.1 |
| 12.5° | 712.8 | 689.1 | 623.0 | 558.2 | 526.0 | 481.0 | 426.8 | 396.9 | 371.8 | 376.1 | 368.1 |
| 15° | 760.1 | 743.3 | 664.0 | 579.3 | 502.4 | 446.5 | 388.9 | 347.8 | 325.3 | 322.7 | 314.8 |
| 17.5° | 824.3 | 800.3 | 667.7 | 564.8 | 471.9 | 404.9 | 339.9 | 293.4 | 283.7 | 279.7 | 275.7 |
| 20° | 855.0 | 812.0 | 654.3 | 519.2 | 436.2 | 355.2 | 291.4 | 251.5 | 248.6 | 255.7 | 254.3 |
| 22.5° | 881.8 | 821.7 | 642.4 | 491.5 | 380.6 | 305.1 | 258.3 | 232.1 | 228.9 | 238.1 | 239.8 |
| 25° | 897.5 | 849.3 | 629.2 | 463.3 | 346.1 | 267.7 | 233.5 | 218.7 | 219.3 | 231.2 | 229.8 |
| 27.5° | 968.2 | 859.0 | 596.2 | 429.9 | 306.5 | 240.1 | 221.5 | 213.8 | 210.7 | 227.2 | 228.7 |
| 30° | 1012.7 | 922.3 | 588.8 | 394.6 | 277.1 | 219.8 | 210.7 | 207.6 | 207.0 | 226.9 | 228.4 |
| 32.5° | 1095.4 | 943.4 | 592.2 | 356.1 | 250.6 | 213.5 | 202.7 | 202.4 | 208.1 | 227.2 | 229.5 |
| 35° | 1210.0 | 1032.4 | 575.6 | 334.1 | 236.1 | 203.9 | 196.4 | 198.7 | 208.4 | 229.2 | 232.4 |
| 37.5° | 1433.5 | 1116.2 | 580.8 | 313.6 | 231.2 | 200.7 | 194.7 | 196.2 | 211.8 | 234.4 | 242.9 |
| 40° | 1610.6 | 1268.2 | 572.8 | 303.4 | 224.7 | 200.1 | 191.0 | 196.7 | 211.6 | 237.2 | 244.9 |
| 42.5° | 1867.2 | 1389.3 | 573.6 | 293.1 | 224.4 | 197.9 | 190.5 | 197.3 | 211.0 | 234.6 | 245.2 |
| 45° | 2087.3 | 1498.0 | 585.9 | 287.1 | 221.5 | 201.6 | 189.6 | 198.2 | 207.3 | 225.5 | 237.2 |
| 47.5° | 2267.8 | 1619.1 | 598.4 | 281.4 | 220.4 | 205.0 | 188.7 | 192.2 | 201.0 | 215.3 | 225.8 |
| 50° | 2414.9 | 1704.4 | 614.4 | 280.3 | 220.4 | 203.3 | 186.5 | 186.2 | 193.6 | 205.0 | 215.0 |
| 52.5° | 2529.5 | 1764.6 | 625.2 | 281.7 | 220.4 | 196.7 | 183.6 | 181.3 | 185.9 | 194.2 | 204.1 |
| 55° | 2612.5 | 1783.1 | 616.4 | 285.4 | 220.1 | 190.7 | 178.5 | 176.5 | 178.8 | 184.5 | 193.9 |
| 57.5° | 2645.8 | 1734.3 | 563.7 | 278.8 | 220.1 | 186.5 | 172.2 | 169.9 | 172.2 | 176.5 | 185.9 |
| 60° | 2562.3 | 1577.5 | 487.5 | 262.0 | 215.8 | 180.8 | 165.1 | 163.7 | 167.1 | 170.8 | 179.9 |
| 62.5° | 2352.7 | 1369.1 | 406.3 | 242.1 | 207.0 | 175.9 | 158.2 | 158.5 | 163.9 | 169.1 | 178.2 |
| 65° | 2027.1 | 1117.1 | 338.7 | 221.8 | 195.9 | 168.2 | 151.1 | 153.1 | 160.8 | 167.6 | 176.8 |
| 67.5° | 1595.2 | 827.7 | 285.1 | 202.1 | 180.2 | 155.7 | 143.1 | 143.7 | 149.1 | 155.7 | 164.5 |
| 70° | 1066.3 | 526.6 | 234.4 | 179.0 | 159.7 | 139.4 | 130.9 | 128.9 | 127.4 | 133.1 | 140.8 |
| 72.5° | 540.9 | 311.1 | 192.4 | 153.1 | 137.4 | 121.7 | 115.2 | 110.1 | 106.1 | 109.5 | 115.5 |
| 75° | 283.4 | 217.5 | 155.4 | 127.2 | 113.5 | 103.5 | 98.6 | 91.8 | 89.0 | 91.0 | 95.2 |
| 77.5° | 200.4 | 170.2 | 125.7 | 100.6 | 92.4 | 82.1 | 83.0 | 75.8 | 73.6 | 74.7 | 79.3 |
| 80° | 154.0 | 134.9 | 96.7 | 76.1 | 71.3 | 61.3 | 64.1 | 59.9 | 57.0 | 56.5 | 59.9 |
| 82.5° | 104.9 | 101.5 | 68.7 | 53.3 | 49.9 | 42.8 | 46.8 | 45.0 | 41.3 | 39.1 | 40.8 |
| 85° | 70.7 | 67.3 | 41.9 | 30.8 | 29.4 | 22.2 | 28.5 | 27.4 | 24.2 | 20.8 | 21.1 |
| 87.5° | 12.3 | 22.5 | 12.0 | 7.7 | 7.1 | 2.6 | 6.6 | 6.3 | 5.7 | 2.9 | 2.3 |
| 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)