

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: P366651

Luminaire Tested: **PMM-SA1A-740-U-SL4-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-21)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1A-740-U-SL4-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3342 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

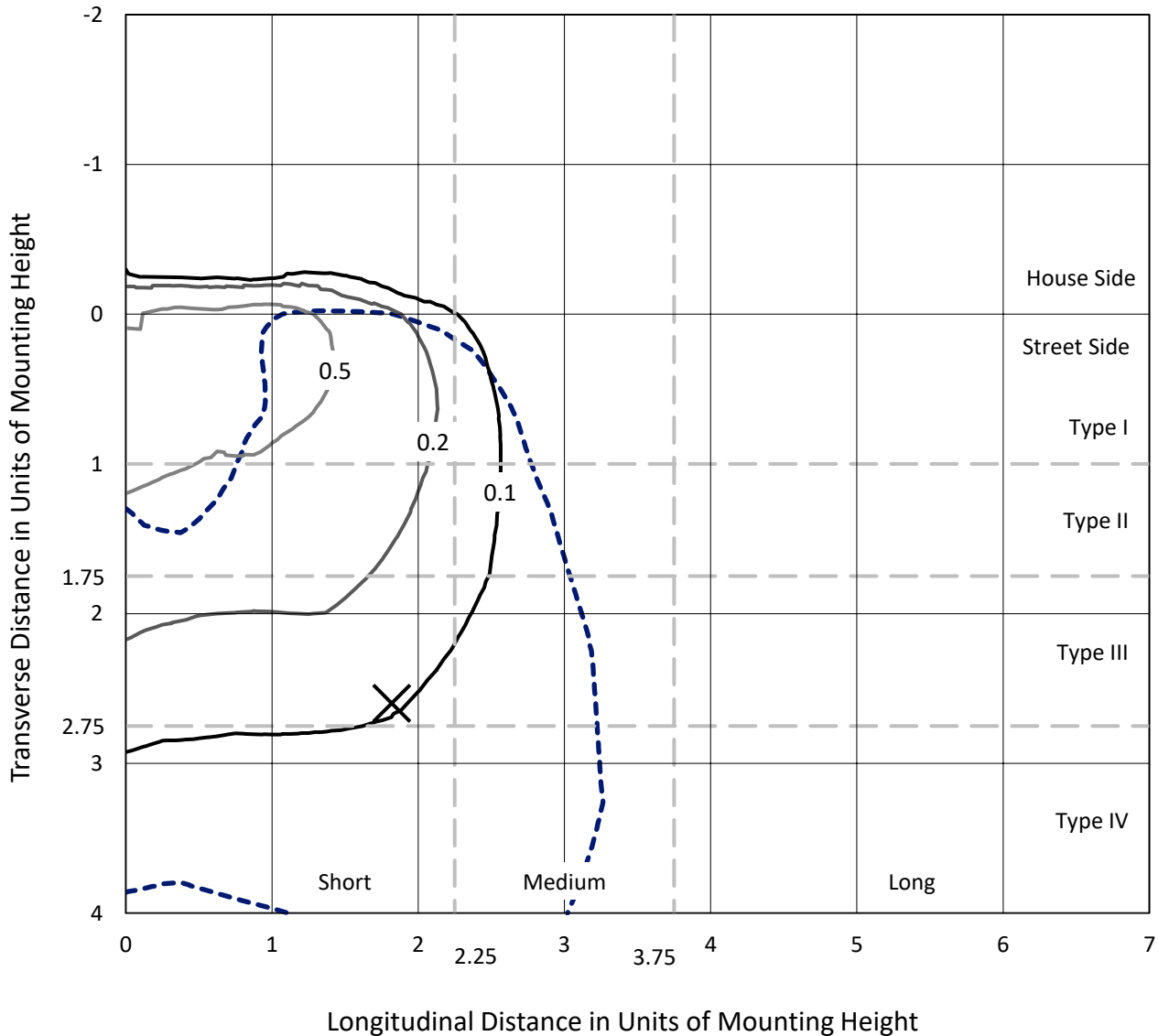
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P366651
 CATALOG NUMBER: PMM-SA1A-740-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

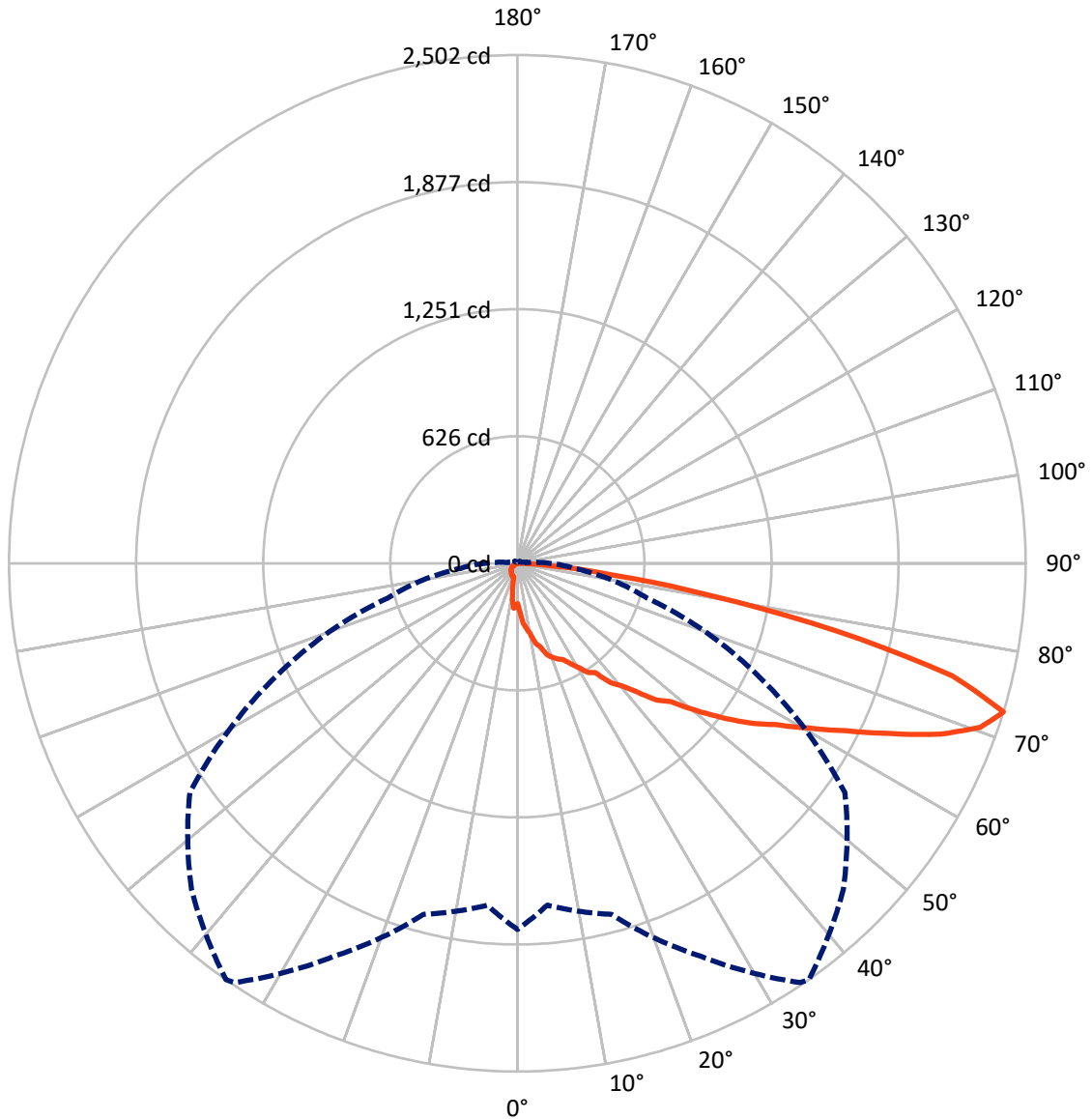
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P366651
CATALOG NUMBER: PMM-SA1A-740-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P366651

CATALOG NUMBER: PMM-SA1A-740-U-SL4-HSS

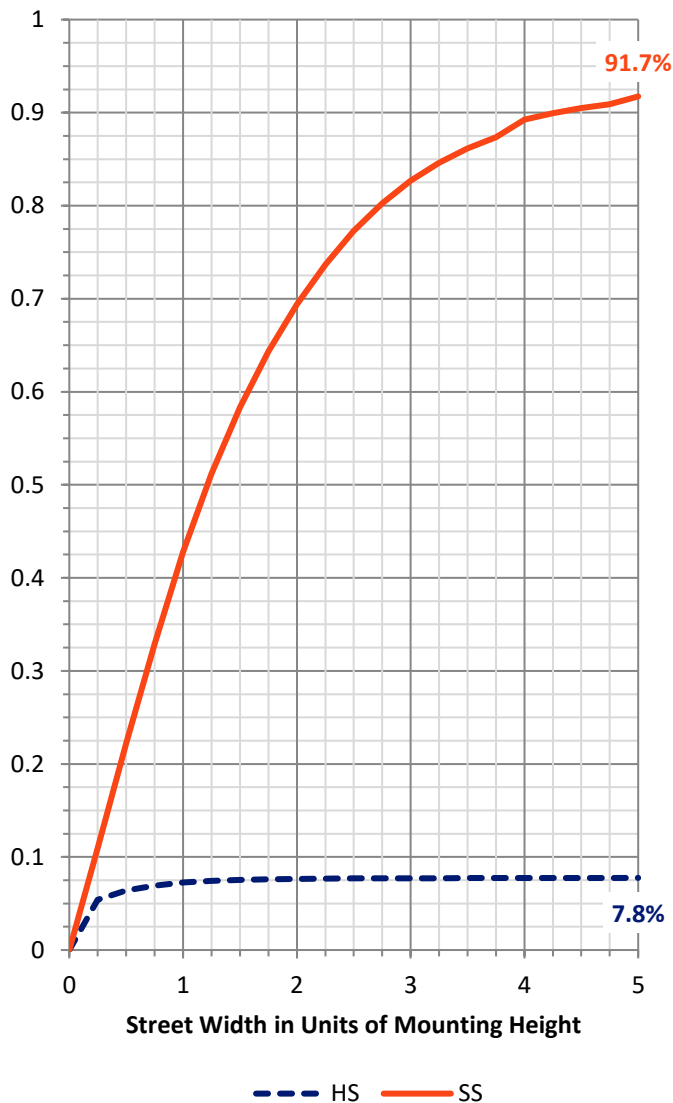
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 260.7 | 0.0 | 260.7 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 3081.3 | 0.0 | 3081.3 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 3342.0 | 0.0 | 3342.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 25.4 | 0.8 |
| 10°-20° | 85.5 | 2.6 |
| 20°-30° | 155.8 | 4.7 |
| 30°-40° | 268.7 | 8.0 |
| 40°-50° | 477.6 | 14.3 |
| 50°-60° | 712.7 | 21.3 |
| 60°-70° | 910.5 | 27.2 |
| 70°-80° | 633.5 | 19.0 |
| 80°-90° | 72.5 | 2.2 |
| 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° | 3342.0 | 100.0 |
| 0°-180° | 3342.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P366651

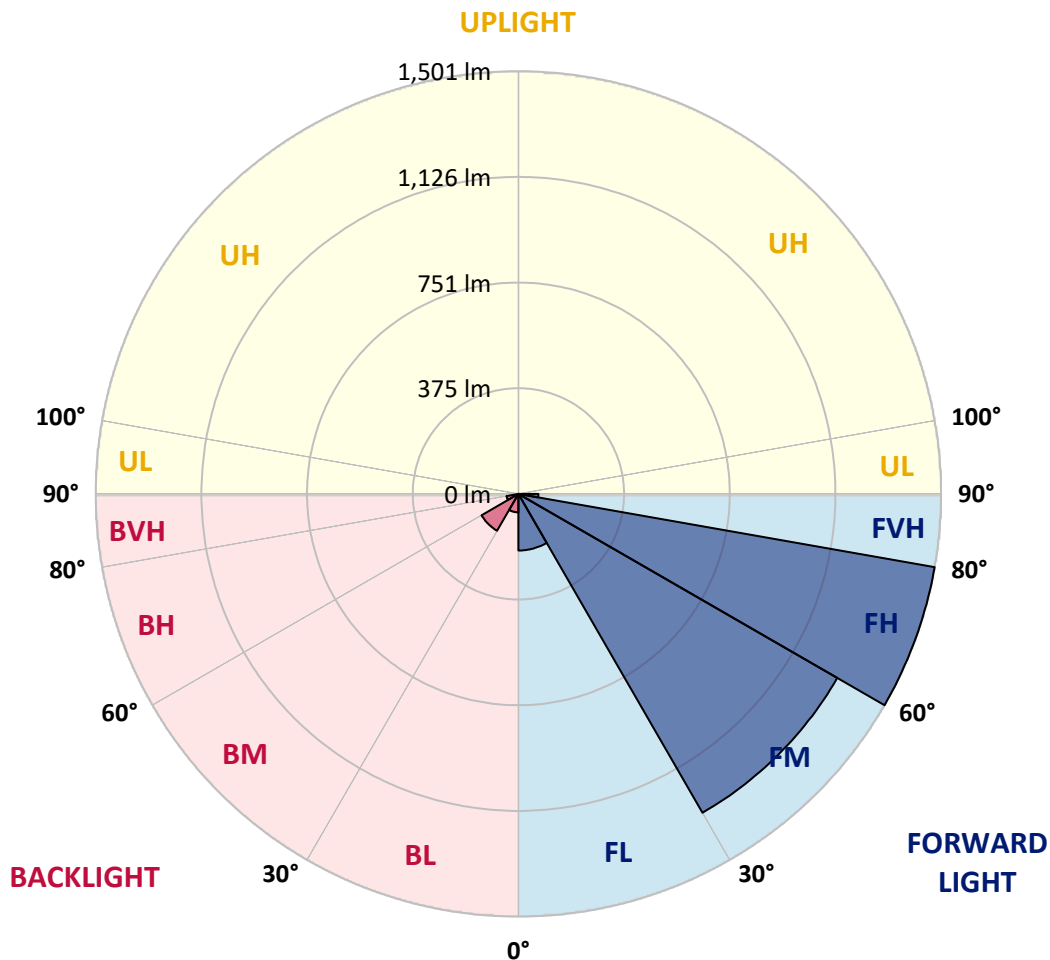
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 201.1 | 6.0 | | | |
| FM (30°-60°) | 1307.7 | 39.1 | | | |
| FH (60°-80°) | 1501.2 | 44.9 | | | G1/1800 |
| FVH (80°-90°) | 71.2 | 2.1 | | | G1/100 |
| BL (0°-30°) | 65.6 | 2.0 | B0/110 | | |
| BM (30°-60°) | 151.2 | 4.5 | B0/220 | | |
| BH (60°-80°) | 42.7 | 1.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P366651

CATALOG NUMBER: PMM-SA1A-740-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 |
| 2.5° | 253.3 | 243.4 | 227.3 | 228.5 | 235.7 | 237.2 | 239.4 | 233.7 | 228.7 | 219.7 | 237.1 |
| 5° | 324.6 | 310.3 | 301.2 | 298.4 | 294.2 | 294.5 | 284.3 | 288.0 | 286.9 | 293.5 | 301.4 |
| 7.5° | 364.7 | 356.8 | 345.4 | 342.2 | 326.8 | 325.1 | 312.5 | 329.5 | 331.1 | 328.8 | 341.7 |
| 10° | 380.7 | 370.3 | 371.6 | 359.7 | 352.0 | 354.0 | 356.0 | 357.3 | 359.5 | 361.7 | 345.9 |
| 12.5° | 390.1 | 391.9 | 410.3 | 397.8 | 405.6 | 405.6 | 419.2 | 404.7 | 405.2 | 389.4 | 392.1 |
| 15° | 432.4 | 442.7 | 434.5 | 434.3 | 425.9 | 428.1 | 443.9 | 432.4 | 438.3 | 433.6 | 415.5 |
| 17.5° | 485.5 | 487.5 | 471.9 | 465.0 | 472.6 | 472.8 | 466.0 | 465.5 | 445.0 | 479.6 | 457.6 |
| 20° | 502.5 | 513.9 | 491.7 | 464.9 | 496.3 | 494.8 | 494.3 | 486.4 | 452.3 | 500.3 | 482.2 |
| 22.5° | 548.7 | 532.4 | 517.3 | 499.6 | 511.9 | 511.9 | 510.1 | 492.8 | 479.5 | 498.5 | 506.2 |
| 25° | 563.1 | 565.2 | 545.5 | 539.8 | 540.1 | 525.0 | 523.7 | 516.3 | 503.5 | 535.9 | 520.5 |
| 27.5° | 612.9 | 612.0 | 564.8 | 580.8 | 560.5 | 560.6 | 523.5 | 540.1 | 542.3 | 537.8 | 555.1 |
| 30° | 661.8 | 675.4 | 604.1 | 624.3 | 603.0 | 596.6 | 560.3 | 575.1 | 578.9 | 573.7 | 595.6 |
| 32.5° | 724.1 | 744.1 | 674.9 | 655.0 | 622.4 | 640.6 | 615.6 | 580.6 | 599.8 | 646.3 | 658.6 |
| 35° | 790.1 | 799.9 | 726.1 | 698.4 | 661.6 | 661.4 | 660.6 | 663.4 | 684.6 | 737.0 | 747.4 |
| 37.5° | 908.7 | 885.7 | 819.0 | 755.5 | 763.7 | 745.4 | 732.7 | 746.1 | 768.1 | 854.5 | 899.0 |
| 40° | 974.9 | 958.3 | 864.4 | 826.7 | 785.9 | 792.6 | 827.2 | 825.7 | 884.4 | 974.7 | 1041.4 |
| 42.5° | 1039.3 | 1023.5 | 931.1 | 900.7 | 848.2 | 866.6 | 881.7 | 900.8 | 1020.9 | 1166.8 | 1203.4 |
| 45° | 1096.5 | 1050.2 | 985.0 | 986.2 | 959.0 | 961.1 | 987.9 | 1005.5 | 1179.2 | 1328.7 | 1354.4 |
| 47.5° | 1131.2 | 1093.0 | 1030.5 | 1029.3 | 1027.7 | 1017.4 | 1143.3 | 1159.4 | 1305.4 | 1483.0 | 1485.3 |
| 50° | 1179.9 | 1132.2 | 1077.4 | 1078.4 | 1117.2 | 1138.9 | 1289.1 | 1287.4 | 1427.2 | 1611.6 | 1557.4 |
| 52.5° | 1240.5 | 1182.2 | 1121.9 | 1166.8 | 1226.8 | 1262.0 | 1384.0 | 1433.7 | 1558.1 | 1692.5 | 1585.6 |
| 55° | 1318.1 | 1245.2 | 1187.1 | 1244.6 | 1375.4 | 1389.0 | 1476.9 | 1581.9 | 1700.7 | 1774.9 | 1594.7 |
| 57.5° | 1409.2 | 1322.2 | 1275.1 | 1367.7 | 1498.2 | 1498.6 | 1612.1 | 1739.8 | 1788.2 | 1808.5 | 1584.4 |
| 60° | 1507.3 | 1405.8 | 1358.5 | 1441.8 | 1633.7 | 1647.4 | 1762.5 | 1827.0 | 1877.1 | 1825.5 | 1566.1 |
| 62.5° | 1593.7 | 1481.6 | 1444.8 | 1542.8 | 1782.2 | 1814.8 | 1893.6 | 1884.3 | 1941.3 | 1846.8 | 1519.6 |
| 65° | 1696.5 | 1579.7 | 1555.5 | 1700.2 | 1976.0 | 2020.9 | 2040.7 | 1986.0 | 1962.8 | 1830.4 | 1398.4 |
| 67.5° | 1798.3 | 1689.1 | 1688.4 | 1874.7 | 2230.2 | 2245.7 | 2224.9 | 2129.3 | 1937.7 | 1685.2 | 1176.5 |
| 70° | 1870.0 | 1752.8 | 1797.0 | 2065.9 | 2461.2 | 2417.9 | 2330.2 | 2197.0 | 1757.0 | 1291.6 | 768.6 |
| 72.5° | 1802.7 | 1689.6 | 1789.2 | 2134.0 | 2489.8 | 2502.2 | 2269.2 | 1968.0 | 1305.4 | 660.6 | 278.2 |
| 75° | 1369.9 | 1300.7 | 1553.5 | 1893.2 | 2210.6 | 2213.4 | 1894.1 | 1388.0 | 642.8 | 179.4 | 76.9 |
| 77.5° | 690.0 | 668.0 | 983.3 | 1344.0 | 1612.8 | 1608.1 | 1301.3 | 743.6 | 206.8 | 59.6 | 38.8 |
| 80° | 349.3 | 331.6 | 418.5 | 725.1 | 957.8 | 964.8 | 743.1 | 333.0 | 104.3 | 32.4 | 26.9 |
| 82.5° | 214.5 | 203.6 | 229.0 | 328.1 | 464.9 | 476.1 | 281.9 | 210.8 | 64.7 | 19.2 | 24.5 |
| 85° | 41.5 | 43.7 | 131.5 | 164.3 | 185.6 | 181.3 | 83.5 | 173.5 | 19.5 | 11.4 | 17.8 |
| 87.5° | 0.0 | 0.7 | 30.4 | 53.6 | 53.8 | 47.7 | 19.0 | 38.5 | 2.7 | 3.2 | 2.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P366651

CATALOG NUMBER: PMM-SA1A-740-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 | 199.1 |
| 2.5° | 239.9 | 237.4 | 216.4 | 214.0 | 214.5 | 211.0 | 209.8 | 202.4 | 200.6 | 212.0 | 214.0 |
| 5° | 298.0 | 281.2 | 261.7 | 254.7 | 243.8 | 225.3 | 222.6 | 217.9 | 212.7 | 214.7 | 213.2 |
| 7.5° | 333.7 | 311.3 | 290.5 | 253.3 | 222.6 | 195.7 | 191.4 | 183.3 | 175.2 | 175.4 | 180.6 |
| 10° | 339.4 | 320.5 | 291.8 | 246.6 | 211.5 | 177.9 | 148.7 | 127.5 | 117.9 | 109.4 | 111.9 |
| 12.5° | 372.5 | 355.0 | 302.1 | 244.6 | 195.4 | 143.0 | 104.7 | 84.0 | 74.9 | 71.9 | 71.6 |
| 15° | 399.0 | 385.2 | 319.5 | 238.4 | 159.6 | 100.6 | 74.9 | 68.9 | 67.2 | 70.1 | 69.2 |
| 17.5° | 438.5 | 413.6 | 317.7 | 212.7 | 121.6 | 76.4 | 69.0 | 68.2 | 70.2 | 71.9 | 72.4 |
| 20° | 455.8 | 420.0 | 305.1 | 172.4 | 91.1 | 70.1 | 67.4 | 65.7 | 69.4 | 74.4 | 73.4 |
| 22.5° | 473.3 | 430.9 | 290.3 | 141.1 | 73.2 | 67.0 | 65.5 | 64.2 | 67.0 | 71.9 | 73.1 |
| 25° | 481.2 | 448.4 | 273.8 | 110.2 | 68.0 | 63.5 | 62.5 | 63.0 | 65.4 | 69.7 | 69.2 |
| 27.5° | 521.0 | 450.4 | 242.4 | 87.0 | 65.9 | 61.0 | 61.0 | 62.2 | 62.2 | 68.0 | 67.5 |
| 30° | 545.8 | 484.5 | 216.9 | 73.2 | 63.3 | 57.5 | 59.5 | 60.0 | 59.1 | 65.5 | 66.0 |
| 32.5° | 589.5 | 493.9 | 192.0 | 67.2 | 59.3 | 57.0 | 56.6 | 57.0 | 57.6 | 63.8 | 64.0 |
| 35° | 656.7 | 540.3 | 158.1 | 64.8 | 57.3 | 54.4 | 52.1 | 53.9 | 55.6 | 60.1 | 61.0 |
| 37.5° | 788.1 | 587.8 | 128.9 | 63.0 | 56.3 | 52.1 | 51.2 | 50.9 | 53.9 | 59.1 | 60.8 |
| 40° | 894.4 | 672.0 | 104.8 | 61.5 | 54.3 | 50.7 | 48.6 | 48.7 | 51.4 | 55.3 | 57.8 |
| 42.5° | 1045.0 | 732.8 | 88.9 | 59.1 | 51.4 | 47.9 | 45.4 | 46.9 | 48.0 | 52.1 | 53.8 |
| 45° | 1170.6 | 780.0 | 78.3 | 57.6 | 48.6 | 45.2 | 43.2 | 44.9 | 43.7 | 45.7 | 48.0 |
| 47.5° | 1270.6 | 821.2 | 70.4 | 53.9 | 46.7 | 43.7 | 41.2 | 40.7 | 38.6 | 39.1 | 41.3 |
| 50° | 1325.5 | 814.3 | 63.8 | 50.2 | 44.4 | 42.2 | 38.6 | 35.1 | 32.4 | 32.3 | 33.6 |
| 52.5° | 1345.0 | 777.5 | 58.5 | 47.0 | 41.5 | 38.8 | 34.8 | 29.9 | 27.2 | 26.4 | 27.6 |
| 55° | 1350.4 | 724.6 | 53.6 | 43.5 | 38.8 | 34.6 | 30.4 | 25.2 | 22.3 | 21.0 | 22.2 |
| 57.5° | 1332.9 | 643.1 | 48.9 | 40.2 | 35.6 | 30.6 | 26.0 | 20.7 | 18.0 | 16.3 | 17.3 |
| 60° | 1289.8 | 539.6 | 44.7 | 36.0 | 32.3 | 27.0 | 22.0 | 16.6 | 13.8 | 12.3 | 12.8 |
| 62.5° | 1194.2 | 423.0 | 40.2 | 32.1 | 28.7 | 23.7 | 18.5 | 13.1 | 10.4 | 9.1 | 9.2 |
| 65° | 1048.7 | 315.3 | 34.9 | 28.4 | 25.5 | 20.5 | 14.8 | 10.1 | 7.9 | 6.7 | 6.6 |
| 67.5° | 835.5 | 213.7 | 29.7 | 24.5 | 22.7 | 17.3 | 11.8 | 7.9 | 6.2 | 5.4 | 5.0 |
| 70° | 491.1 | 107.7 | 24.7 | 21.2 | 19.5 | 14.4 | 9.2 | 6.4 | 5.7 | 5.0 | 4.7 |
| 72.5° | 162.0 | 46.5 | 19.3 | 17.5 | 16.1 | 11.6 | 7.2 | 5.9 | 5.5 | 4.9 | 4.5 |
| 75° | 56.4 | 26.9 | 14.3 | 13.4 | 12.8 | 8.7 | 6.0 | 5.4 | 5.4 | 4.7 | 4.2 |
| 77.5° | 37.0 | 20.8 | 10.6 | 9.7 | 9.6 | 6.4 | 5.2 | 5.0 | 4.7 | 3.9 | 3.2 |
| 80° | 30.7 | 11.8 | 7.4 | 6.9 | 6.7 | 4.0 | 4.2 | 3.7 | 2.9 | 1.7 | 0.7 |
| 82.5° | 28.4 | 7.1 | 3.9 | 4.2 | 3.9 | 1.5 | 2.4 | 2.0 | 1.5 | 0.7 | 0.0 |
| 85° | 16.6 | 3.2 | 2.2 | 2.2 | 1.7 | 0.3 | 1.2 | 1.2 | 0.7 | 0.2 | 0.0 |
| 87.5° | 1.8 | 1.5 | 1.2 | 1.2 | 0.8 | 0.0 | 0.5 | 0.3 | 0.0 | 0.0 | 0.0 |
| 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)