

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: P368452

Luminaire Tested: **PMM-SA4C-727-U-SL2**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-16)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4C-727-U-SL2
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19990 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

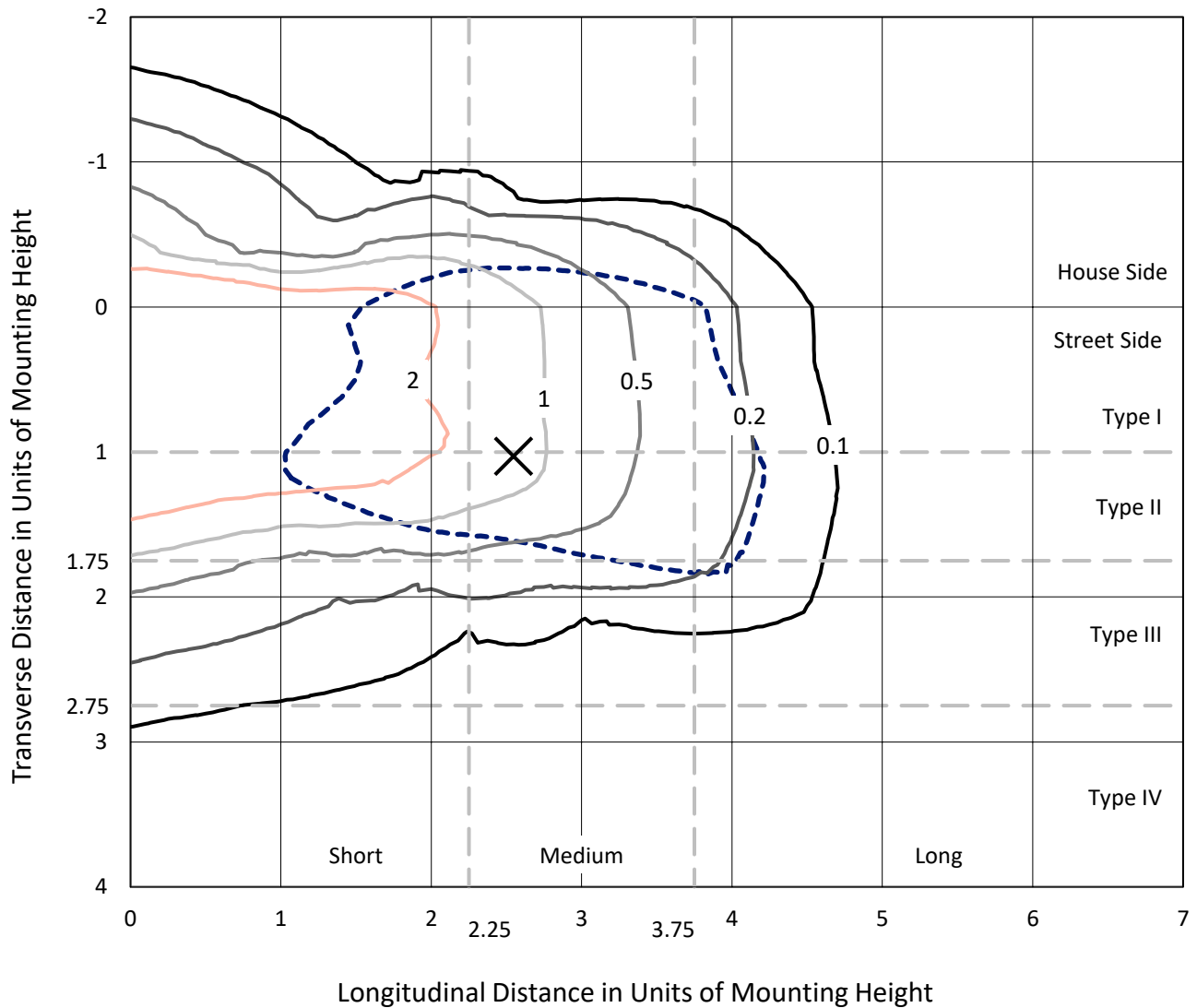
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P368452
 CATALOG NUMBER: PMM-SA4C-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

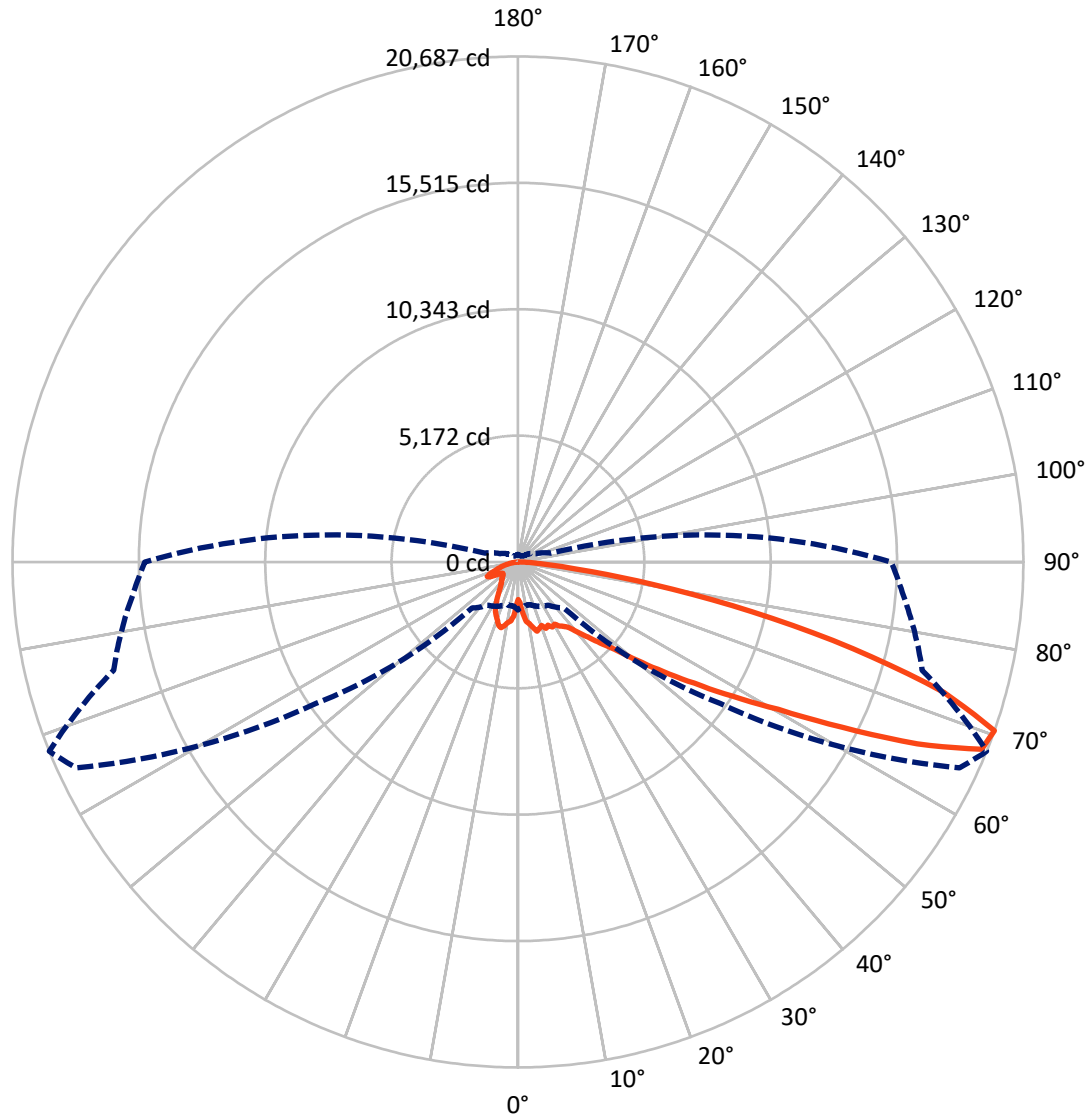
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P368452
CATALOG NUMBER: PMM-SA4C-727-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P368452
 CATALOG NUMBER: PMM-SA4C-727-U-SL2

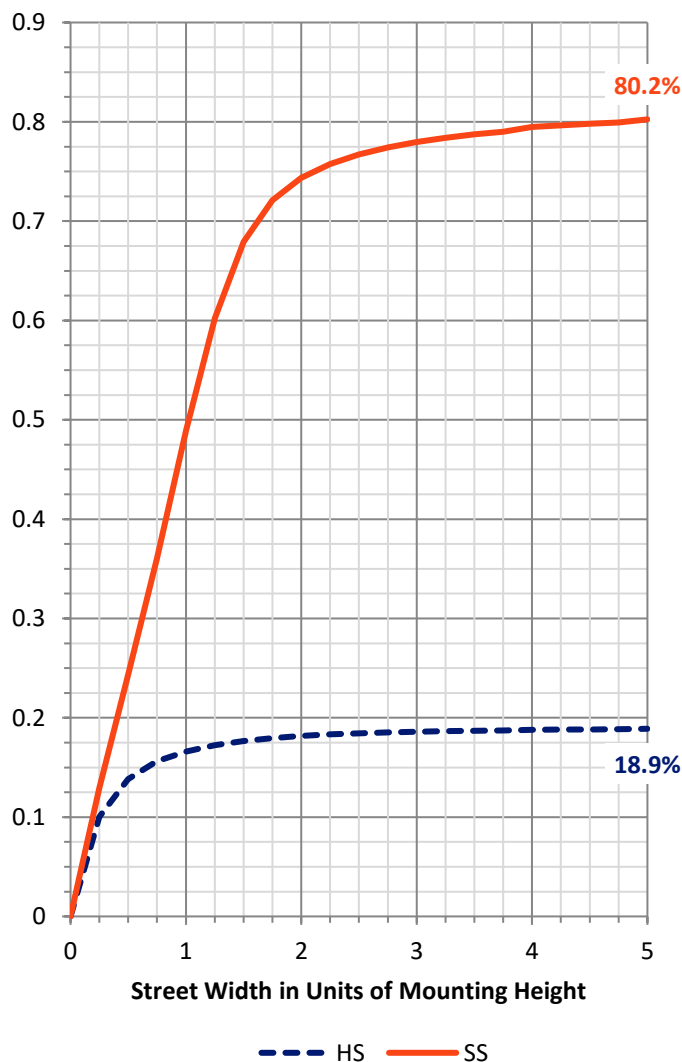
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3816.6 | 0.0 | 3816.6 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 16173.4 | 0.0 | 16173.4 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 19990.0 | 0.0 | 19990.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 204.7 | 1.0 |
| 10°-20° | 667.2 | 3.3 |
| 20°-30° | 1014.9 | 5.1 |
| 30°-40° | 1550.2 | 7.8 |
| 40°-50° | 2665.5 | 13.3 |
| 50°-60° | 4412.0 | 22.1 |
| 60°-70° | 5439.4 | 27.2 |
| 70°-80° | 3494.1 | 17.5 |
| 80°-90° | 542.0 | 2.7 |
| 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° | 19990.0 | 100.0 |
| 0°-180° | 19990.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P368452

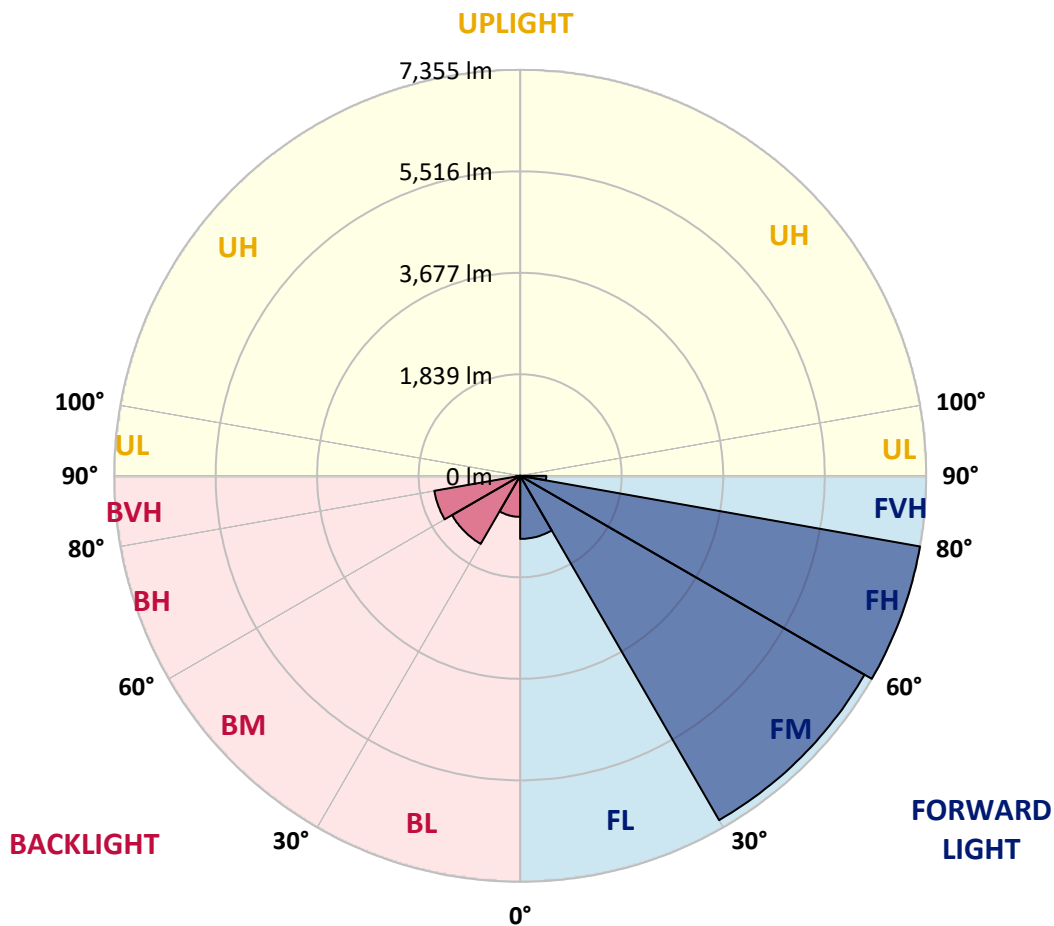
CATALOG NUMBER: PMM-SA4C-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1143.1 | 5.7 | | | |
| FM (30°-60°) | 7203.2 | 36.0 | | | |
| FH (60°-80°) | 7354.8 | 36.8 | | | G3/7500 |
| FVH (80°-90°) | 472.4 | 2.4 | | | G3/500 |
| BL (0°-30°) | 743.7 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 1424.6 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 1578.7 | 7.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 69.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Medium





REPORT NUMBER: P368452

CATALOG NUMBER: PMM-SA4C-727-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 68° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 |
| 2.5° | 1761.1 | 1690.0 | 1618.0 | 1653.2 | 1709.2 | 1758.6 | 1748.6 | 1754.4 | 1686.6 | 1677.4 | 1855.6 |
| 5° | 2074.8 | 1952.7 | 1950.2 | 1951.9 | 1956.9 | 1900.0 | 2038.9 | 2110.8 | 2126.7 | 2200.3 | 2375.2 |
| 7.5° | 2183.6 | 2134.2 | 2084.0 | 2109.1 | 2045.6 | 2051.4 | 2222.1 | 2409.5 | 2453.8 | 2507.4 | 2746.7 |
| 10° | 2161.0 | 2114.2 | 2129.2 | 2133.4 | 2145.1 | 2239.7 | 2349.3 | 2529.1 | 2566.8 | 2737.4 | 2799.4 |
| 12.5° | 2164.4 | 2156.0 | 2226.3 | 2228.8 | 2354.3 | 2524.1 | 2567.6 | 2733.3 | 2748.3 | 2873.8 | 3132.3 |
| 15° | 2279.0 | 2336.7 | 2297.4 | 2318.3 | 2342.6 | 2545.9 | 2608.6 | 2846.2 | 2936.6 | 3098.0 | 3292.1 |
| 17.5° | 2502.4 | 2519.1 | 2401.1 | 2370.2 | 2449.6 | 2511.6 | 2654.6 | 2757.5 | 2852.1 | 3303.0 | 3570.7 |
| 20° | 2554.2 | 2599.4 | 2458.9 | 2299.1 | 2467.2 | 2553.4 | 2653.0 | 2699.8 | 2773.4 | 3333.1 | 3713.0 |
| 22.5° | 2776.8 | 2683.1 | 2513.2 | 2374.4 | 2429.6 | 2513.2 | 2585.2 | 2761.7 | 2955.0 | 3247.0 | 3855.2 |
| 25° | 2903.1 | 2848.7 | 2697.3 | 2548.4 | 2501.5 | 2504.0 | 2642.9 | 2801.0 | 2868.0 | 3373.3 | 3883.6 |
| 27.5° | 3208.5 | 3121.5 | 2781.0 | 2752.5 | 2576.0 | 2438.8 | 2652.1 | 2898.1 | 3015.2 | 3274.6 | 4022.5 |
| 30° | 3590.8 | 3524.7 | 3078.0 | 3040.3 | 2770.9 | 2531.6 | 2769.2 | 2970.0 | 2953.3 | 3339.0 | 4118.7 |
| 32.5° | 3900.4 | 4010.8 | 3559.9 | 3262.9 | 3071.3 | 2842.0 | 2732.4 | 2957.5 | 3124.0 | 3488.7 | 4281.9 |
| 35° | 4342.1 | 4445.8 | 3935.5 | 3734.7 | 3318.9 | 2985.9 | 2989.3 | 3129.8 | 3232.7 | 3663.6 | 4464.3 |
| 37.5° | 5106.8 | 5015.6 | 4604.8 | 4287.7 | 4021.7 | 3524.7 | 3375.8 | 3326.4 | 3409.3 | 3877.8 | 4821.5 |
| 40° | 5658.1 | 5581.2 | 5097.6 | 4916.9 | 4399.0 | 4110.4 | 3702.1 | 3655.2 | 3801.6 | 4098.6 | 5113.5 |
| 42.5° | 6311.5 | 6174.3 | 5724.2 | 5575.3 | 5034.0 | 4513.6 | 4102.0 | 4128.8 | 4199.9 | 4515.3 | 5508.4 |
| 45° | 6976.6 | 6643.7 | 6388.5 | 6376.8 | 6015.4 | 5296.7 | 4743.7 | 4721.9 | 4724.4 | 5128.5 | 5951.8 |
| 47.5° | 7504.6 | 7205.0 | 6913.1 | 6774.2 | 6591.8 | 6651.2 | 5675.7 | 5420.5 | 5343.5 | 5746.0 | 6616.9 |
| 50° | 7861.8 | 7517.1 | 7186.6 | 7154.0 | 7640.9 | 7961.4 | 6550.8 | 6278.1 | 6325.8 | 6629.4 | 7503.7 |
| 52.5° | 7869.3 | 7460.2 | 7115.5 | 7343.9 | 8490.9 | 8949.4 | 8058.4 | 7296.2 | 7448.5 | 7655.2 | 8660.8 |
| 55° | 7322.2 | 6898.0 | 6673.8 | 7194.2 | 8823.1 | 10121.5 | 10176.8 | 8927.7 | 8752.0 | 8828.1 | 10043.7 |
| 57.5° | 6168.5 | 5740.1 | 5609.6 | 6232.9 | 8193.1 | 11251.8 | 12735.2 | 10877.0 | 10361.6 | 10043.7 | 11461.0 |
| 60° | 4643.3 | 4272.7 | 4191.5 | 4588.9 | 6792.6 | 10919.7 | 14806.7 | 13303.2 | 12253.3 | 11401.6 | 12882.4 |
| 62.5° | 3482.0 | 3216.0 | 3093.9 | 3150.7 | 4700.2 | 9839.6 | 16167.0 | 16368.6 | 14882.0 | 12884.1 | 14271.2 |
| 65° | 2829.5 | 2614.5 | 2505.7 | 2432.1 | 2923.2 | 7608.3 | 15921.0 | 18948.8 | 17952.4 | 14441.1 | 15352.1 |
| 67.5° | 2363.5 | 2172.7 | 2122.5 | 2194.5 | 2310.8 | 4414.1 | 13996.8 | 20392.0 | 20459.8 | 15977.1 | 15983.8 |
| 70° | 1961.9 | 1820.5 | 1802.1 | 2006.2 | 2159.3 | 2663.8 | 10109.8 | 19938.5 | 20686.5 | 17129.1 | 15835.7 |
| 72.5° | 1516.0 | 1439.8 | 1437.3 | 1757.8 | 2145.1 | 2270.6 | 6020.4 | 17224.5 | 18229.3 | 16761.0 | 14386.7 |
| 75° | 1051.6 | 998.9 | 1039.1 | 1444.9 | 2095.8 | 2303.2 | 3436.0 | 13416.2 | 14168.3 | 14262.8 | 11524.6 |
| 77.5° | 723.7 | 679.3 | 722.8 | 1044.9 | 1871.5 | 2358.5 | 2403.6 | 9700.7 | 9784.4 | 9564.3 | 6601.0 |
| 80° | 503.7 | 472.7 | 506.2 | 739.6 | 1456.6 | 2334.2 | 2046.4 | 6107.4 | 5603.7 | 4268.5 | 2113.3 |
| 82.5° | 312.1 | 302.9 | 339.7 | 527.1 | 1025.7 | 2123.4 | 1939.3 | 3151.6 | 2406.1 | 1178.0 | 754.6 |
| 85° | 164.0 | 150.6 | 197.4 | 343.9 | 641.7 | 1666.6 | 1817.2 | 1438.2 | 928.7 | 418.3 | 302.9 |
| 87.5° | 48.5 | 43.5 | 76.1 | 138.9 | 271.9 | 747.1 | 1039.9 | 609.9 | 346.4 | 123.0 | 94.5 |
| 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: P368452
 CATALOG NUMBER: PMM-SA4C-727-U-SL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 | 1532.7 |
| 2.5° | 1868.2 | 1859.0 | 1735.2 | 1751.1 | 1777.8 | 1784.5 | 1783.7 | 1738.5 | 1690.8 | 1823.9 | 1819.7 |
| 5° | 2379.4 | 2296.5 | 2234.6 | 2221.2 | 2145.1 | 2069.0 | 2095.8 | 2086.6 | 2074.8 | 2135.1 | 2142.6 |
| 7.5° | 2747.5 | 2632.9 | 2560.9 | 2376.0 | 2200.3 | 2048.1 | 2096.6 | 2111.7 | 2081.5 | 2190.3 | 2222.9 |
| 10° | 2844.5 | 2754.2 | 2676.4 | 2438.8 | 2341.7 | 2253.0 | 2121.7 | 1971.9 | 1951.9 | 1889.1 | 1896.6 |
| 12.5° | 3094.7 | 3082.1 | 2816.9 | 2607.8 | 2481.4 | 2304.9 | 2021.3 | 1839.7 | 1684.1 | 1691.7 | 1646.5 |
| 15° | 3292.1 | 3298.8 | 2980.1 | 2687.3 | 2348.4 | 2079.0 | 1745.2 | 1519.3 | 1359.5 | 1327.7 | 1295.1 |
| 17.5° | 3557.3 | 3544.0 | 2993.5 | 2591.9 | 2162.7 | 1767.8 | 1358.7 | 1134.5 | 1107.7 | 1126.1 | 1097.7 |
| 20° | 3672.8 | 3554.8 | 2908.1 | 2355.1 | 1872.4 | 1342.8 | 1026.5 | 907.7 | 959.6 | 1033.2 | 1034.9 |
| 22.5° | 3776.5 | 3574.9 | 2863.8 | 2164.4 | 1485.9 | 976.3 | 824.1 | 802.3 | 863.4 | 963.0 | 971.3 |
| 25° | 3772.4 | 3667.8 | 2784.3 | 1971.9 | 1152.0 | 762.2 | 716.2 | 732.1 | 804.8 | 908.6 | 914.4 |
| 27.5° | 3962.3 | 3596.7 | 2577.7 | 1719.3 | 867.6 | 652.6 | 664.3 | 693.6 | 727.9 | 826.6 | 845.8 |
| 30° | 3960.6 | 3728.9 | 2473.9 | 1412.2 | 696.9 | 598.2 | 628.3 | 653.4 | 681.9 | 772.2 | 783.1 |
| 32.5° | 4054.3 | 3642.7 | 2411.2 | 1098.5 | 625.0 | 584.8 | 592.3 | 617.4 | 658.4 | 719.5 | 727.0 |
| 35° | 4167.2 | 3740.6 | 2210.4 | 872.6 | 598.2 | 573.1 | 578.9 | 593.2 | 630.8 | 686.9 | 694.4 |
| 37.5° | 4529.5 | 3759.0 | 2130.9 | 735.4 | 596.5 | 568.1 | 567.2 | 574.8 | 617.4 | 668.5 | 691.1 |
| 40° | 4670.9 | 3927.1 | 1899.1 | 686.9 | 590.7 | 568.1 | 556.4 | 560.5 | 595.7 | 660.9 | 678.5 |
| 42.5° | 5009.7 | 3983.2 | 1727.6 | 670.1 | 590.7 | 558.0 | 539.6 | 546.3 | 587.3 | 645.0 | 672.6 |
| 45° | 5358.6 | 4062.7 | 1523.5 | 666.8 | 589.8 | 557.2 | 522.1 | 537.1 | 570.6 | 619.1 | 649.2 |
| 47.5° | 5855.6 | 4348.8 | 1319.4 | 656.8 | 583.1 | 561.4 | 517.9 | 517.0 | 546.3 | 588.2 | 616.6 |
| 50° | 6666.3 | 4795.6 | 1161.2 | 644.2 | 584.0 | 558.0 | 509.5 | 497.8 | 517.0 | 553.8 | 581.5 |
| 52.5° | 7794.9 | 5556.9 | 1099.3 | 637.5 | 577.3 | 544.6 | 495.3 | 476.9 | 487.8 | 517.0 | 543.8 |
| 55° | 9105.0 | 6585.1 | 1160.4 | 637.5 | 563.9 | 523.7 | 475.2 | 453.5 | 459.3 | 479.4 | 505.3 |
| 57.5° | 10636.1 | 7862.6 | 1455.7 | 628.3 | 547.2 | 498.6 | 450.9 | 425.8 | 427.5 | 445.1 | 468.5 |
| 60° | 12234.9 | 9289.9 | 2117.5 | 620.8 | 535.4 | 471.0 | 422.5 | 396.6 | 394.1 | 410.8 | 431.7 |
| 62.5° | 13836.2 | 10606.8 | 2813.6 | 638.3 | 532.1 | 447.6 | 392.4 | 366.4 | 365.6 | 380.7 | 398.2 |
| 65° | 15109.5 | 11507.0 | 2986.8 | 709.5 | 553.8 | 420.8 | 361.4 | 337.2 | 335.5 | 348.0 | 367.3 |
| 67.5° | 15734.5 | 11637.5 | 2268.9 | 798.1 | 599.9 | 395.7 | 331.3 | 308.7 | 307.0 | 320.4 | 337.2 |
| 70° | 15271.8 | 10745.7 | 1400.5 | 807.3 | 597.4 | 366.4 | 300.3 | 281.1 | 277.8 | 292.0 | 304.5 |
| 72.5° | 13560.1 | 9399.5 | 1064.2 | 714.5 | 517.0 | 324.6 | 269.4 | 252.7 | 247.6 | 260.2 | 271.9 |
| 75° | 10883.7 | 7462.7 | 852.5 | 576.4 | 407.4 | 273.6 | 238.4 | 222.5 | 216.7 | 228.4 | 238.4 |
| 77.5° | 6340.0 | 4198.2 | 623.3 | 450.1 | 307.9 | 223.4 | 203.3 | 189.1 | 182.4 | 194.9 | 202.5 |
| 80° | 2061.5 | 1398.8 | 391.5 | 322.9 | 225.1 | 174.9 | 164.8 | 154.8 | 148.1 | 156.4 | 159.0 |
| 82.5° | 740.4 | 520.4 | 216.7 | 198.3 | 149.8 | 125.5 | 124.7 | 118.8 | 110.4 | 113.8 | 113.8 |
| 85° | 328.0 | 237.6 | 128.8 | 106.3 | 89.5 | 66.9 | 78.6 | 74.5 | 66.1 | 64.4 | 61.9 |
| 87.5° | 92.0 | 78.6 | 46.9 | 36.0 | 29.3 | 10.9 | 25.1 | 22.6 | 18.4 | 16.7 | 11.7 |
| 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)