

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: P598166

Luminaire Tested: **PMM-SA4A-827-U-T4FT**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4A-827-U-T4FT
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) 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: 11423 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

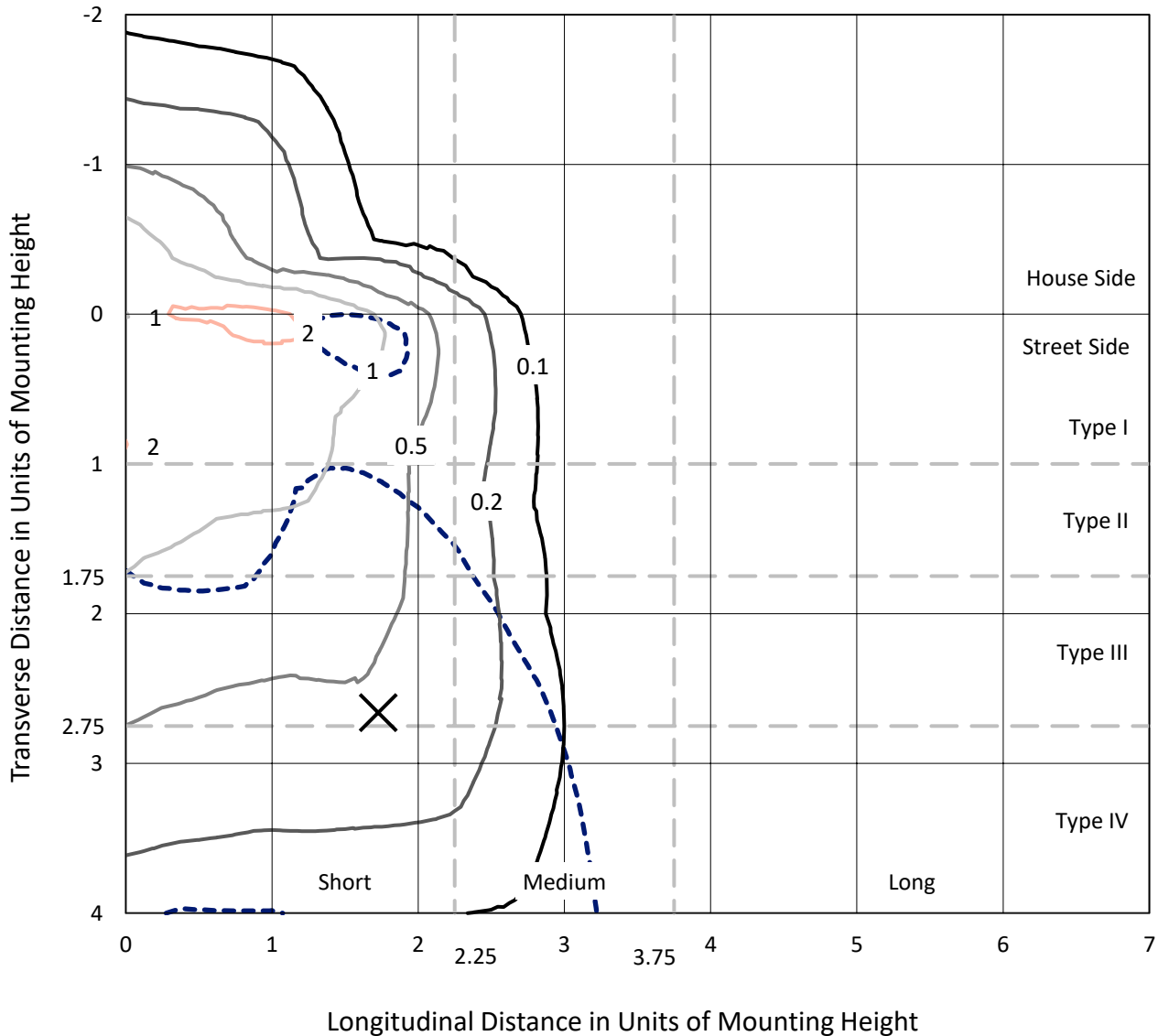
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P598166
 CATALOG NUMBER: PMM-SA4A-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

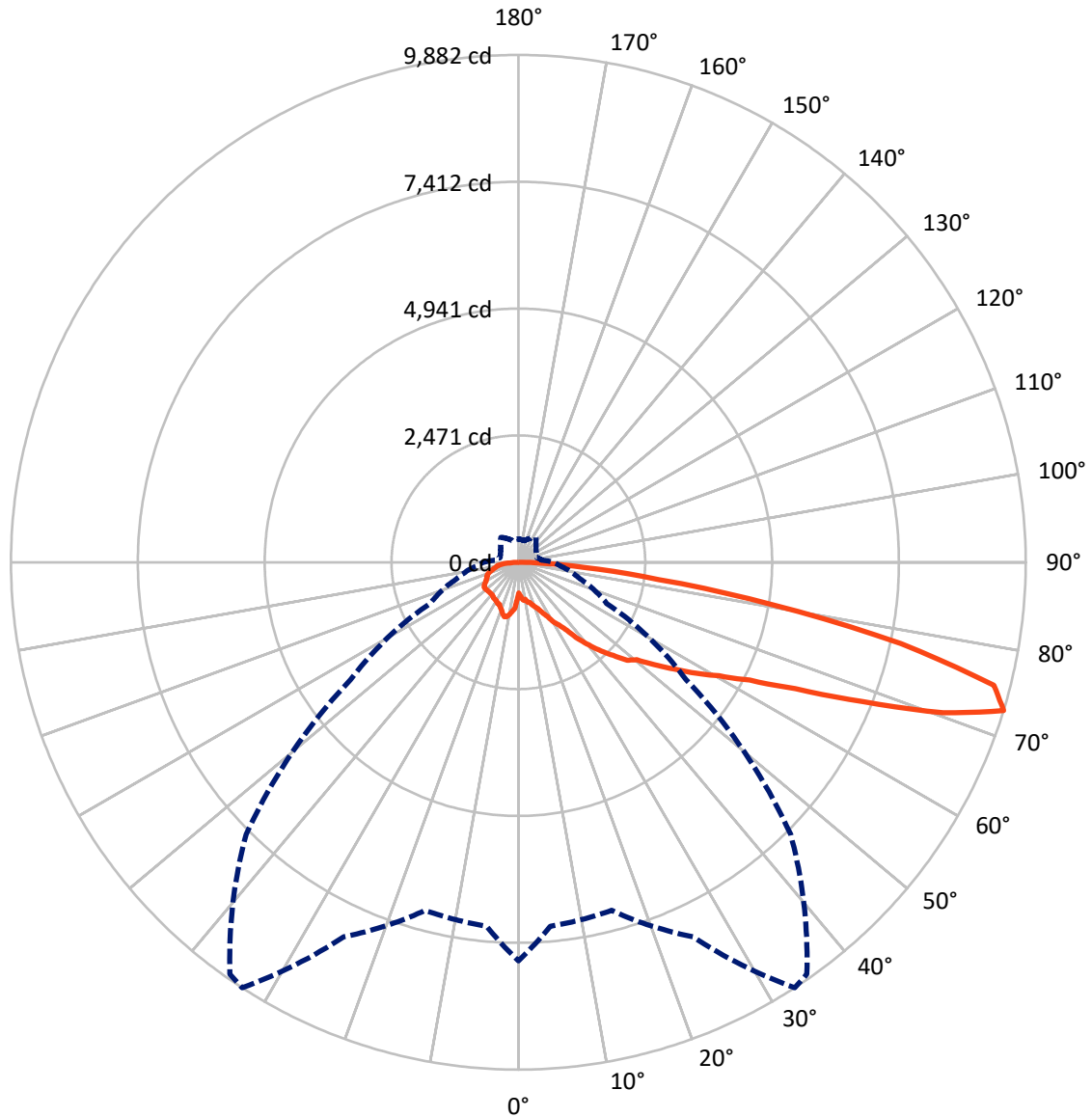
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P598166
CATALOG NUMBER: PMM-SA4A-827-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P598166

CATALOG NUMBER: PMM-SA4A-827-U-T4FT

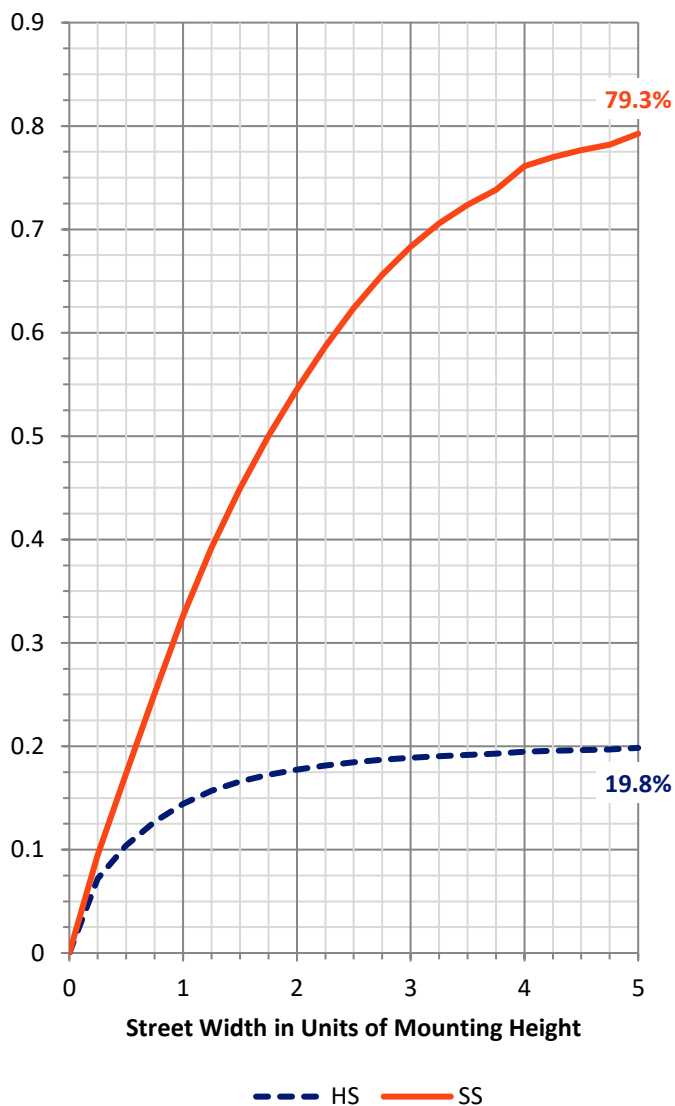
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2310.9 | 0.0 | 2310.9 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 9112.2 | 0.0 | 9112.2 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 11423.0 | 0.0 | 11423.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 82.4 | 0.7 |
| 10°-20° | 304.4 | 2.7 |
| 20°-30° | 555.0 | 4.9 |
| 30°-40° | 938.9 | 8.2 |
| 40°-50° | 1562.0 | 13.7 |
| 50°-60° | 2292.4 | 20.1 |
| 60°-70° | 2932.5 | 25.7 |
| 70°-80° | 2385.9 | 20.9 |
| 80°-90° | 369.5 | 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° | 11423.0 | 100.0 |
| 0°-180° | 11423.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P598166

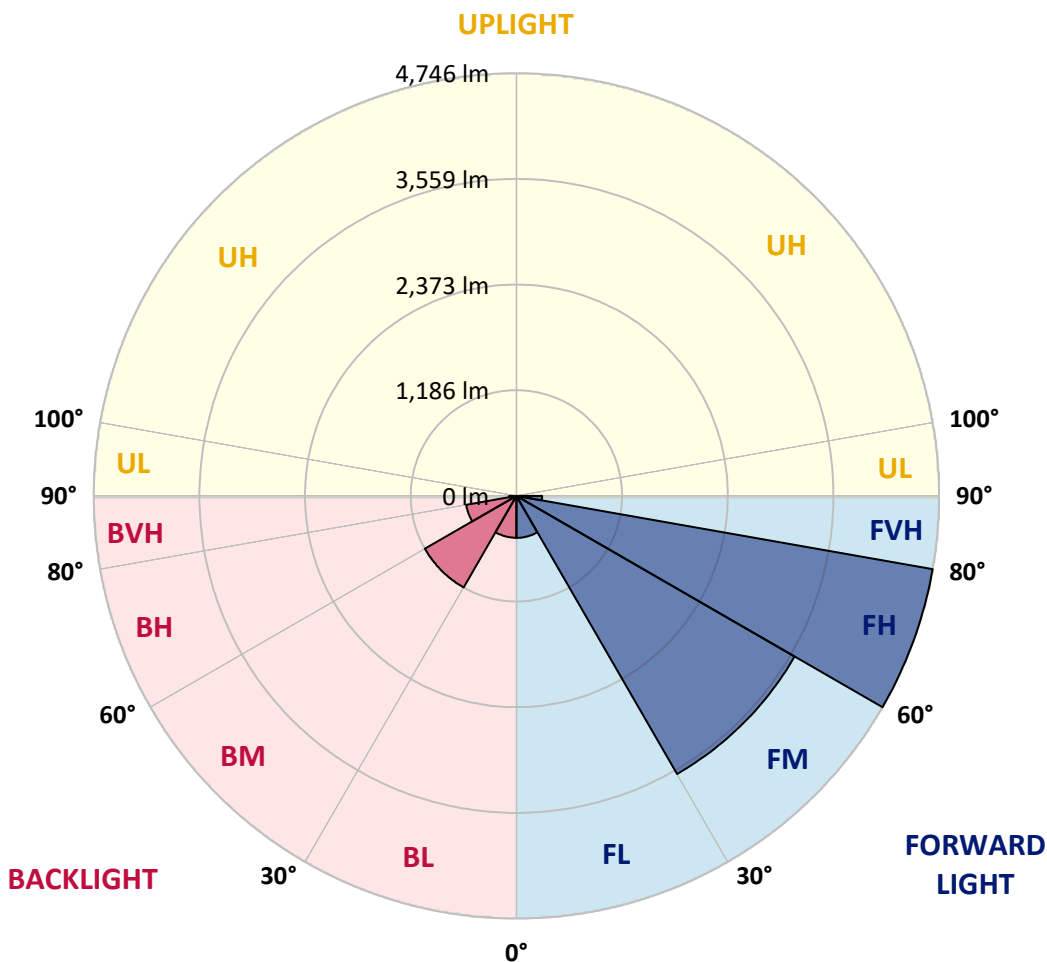
CATALOG NUMBER: PMM-SA4A-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 471.4 | 4.1 | | | |
| FM (30°-60°) | 3606.5 | 31.6 | | | |
| FH (60°-80°) | 4745.8 | 41.5 | | | G2/5000 |
| FVH (80°-90°) | 288.4 | 2.5 | | | G3/500 |
| BL (0°-30°) | 470.3 | 4.1 | B1/500 | | |
| BM (30°-60°) | 1186.9 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 572.6 | 5.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 81.1 | 0.7 | | | 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





REPORT NUMBER: P598166

CATALOG NUMBER: PMM-SA4A-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 |
| 2.5° | 679.1 | 657.7 | 622.7 | 621.7 | 641.2 | 645.4 | 658.2 | 659.2 | 663.9 | 656.3 | 710.3 |
| 5° | 749.2 | 726.4 | 712.7 | 717.4 | 708.4 | 719.3 | 719.3 | 750.6 | 792.3 | 840.7 | 909.4 |
| 7.5° | 765.8 | 749.2 | 733.6 | 745.4 | 747.3 | 736.9 | 746.8 | 820.3 | 895.6 | 944.0 | 1053.9 |
| 10° | 732.6 | 716.0 | 727.9 | 731.7 | 731.2 | 754.9 | 806.5 | 865.3 | 949.2 | 1038.3 | 1097.5 |
| 12.5° | 726.4 | 738.3 | 744.0 | 750.6 | 795.6 | 802.7 | 880.9 | 941.6 | 1025.9 | 1104.1 | 1258.1 |
| 15° | 817.9 | 833.5 | 798.5 | 796.1 | 810.8 | 817.4 | 898.5 | 959.6 | 1082.8 | 1214.1 | 1352.4 |
| 17.5° | 948.2 | 953.9 | 890.9 | 858.7 | 869.6 | 874.8 | 910.3 | 987.1 | 1062.9 | 1305.5 | 1478.0 |
| 20° | 1074.3 | 1078.1 | 959.6 | 887.6 | 926.0 | 931.6 | 964.8 | 1008.9 | 1068.6 | 1356.7 | 1562.8 |
| 22.5° | 1206.5 | 1182.3 | 1052.5 | 961.5 | 983.8 | 985.2 | 1004.6 | 1028.8 | 1113.6 | 1348.6 | 1666.1 |
| 25° | 1351.0 | 1335.9 | 1172.4 | 1085.2 | 1084.2 | 1064.8 | 1065.7 | 1100.3 | 1161.5 | 1434.9 | 1733.9 |
| 27.5° | 1542.9 | 1544.8 | 1307.4 | 1260.5 | 1187.1 | 1174.3 | 1110.3 | 1174.7 | 1244.4 | 1435.8 | 1880.3 |
| 30° | 1791.7 | 1745.8 | 1495.5 | 1419.7 | 1347.2 | 1320.2 | 1233.5 | 1288.5 | 1318.8 | 1517.8 | 2039.6 |
| 32.5° | 1994.1 | 1980.8 | 1691.7 | 1577.1 | 1458.6 | 1489.9 | 1394.1 | 1345.8 | 1400.3 | 1659.0 | 2280.8 |
| 35° | 2187.9 | 2144.3 | 1899.3 | 1750.0 | 1625.4 | 1606.4 | 1544.4 | 1552.4 | 1585.6 | 1837.7 | 2595.9 |
| 37.5° | 2476.9 | 2453.2 | 2193.1 | 1954.3 | 1896.0 | 1818.7 | 1779.4 | 1804.5 | 1778.5 | 2066.6 | 3068.3 |
| 40° | 2800.1 | 2662.7 | 2438.6 | 2225.8 | 2116.8 | 2062.3 | 2076.0 | 2052.4 | 2032.4 | 2323.4 | 3492.0 |
| 42.5° | 3109.6 | 2984.5 | 2601.6 | 2505.8 | 2363.7 | 2386.4 | 2311.1 | 2327.7 | 2384.1 | 2687.8 | 3883.9 |
| 45° | 3446.5 | 3175.9 | 2774.5 | 2690.2 | 2588.3 | 2617.2 | 2677.4 | 2659.4 | 2751.8 | 3117.6 | 4253.0 |
| 47.5° | 3614.7 | 3357.4 | 2986.8 | 2849.4 | 2848.0 | 2787.8 | 3154.1 | 3193.9 | 3049.4 | 3436.1 | 4627.9 |
| 50° | 3776.8 | 3523.7 | 3144.6 | 3051.8 | 2984.5 | 3113.4 | 3611.4 | 3519.9 | 3318.5 | 3801.4 | 5040.1 |
| 52.5° | 4002.3 | 3713.8 | 3325.7 | 3226.6 | 3310.0 | 3429.4 | 3976.3 | 3958.3 | 3582.5 | 4177.2 | 5398.4 |
| 55° | 4174.4 | 3882.9 | 3598.1 | 3506.2 | 3665.4 | 3782.5 | 4347.8 | 4239.3 | 3808.5 | 4453.0 | 5625.4 |
| 57.5° | 4475.7 | 4176.7 | 4000.5 | 3796.2 | 4082.4 | 4080.5 | 4706.0 | 4622.2 | 4050.2 | 4679.5 | 5716.8 |
| 60° | 4954.8 | 4603.7 | 4419.4 | 4183.8 | 4490.4 | 4599.9 | 5115.5 | 4873.8 | 4221.3 | 4822.6 | 5551.9 |
| 62.5° | 5627.3 | 5210.3 | 4911.2 | 4678.1 | 5052.0 | 5250.1 | 5621.1 | 5057.2 | 4232.2 | 4781.9 | 5118.3 |
| 65° | 6458.9 | 5951.9 | 5560.0 | 5313.6 | 5930.5 | 6213.4 | 6232.4 | 5170.4 | 4131.7 | 4360.6 | 4206.6 |
| 67.5° | 7270.2 | 6700.1 | 6291.2 | 6338.1 | 7238.9 | 7373.0 | 6894.9 | 5265.2 | 3592.0 | 3501.5 | 2921.0 |
| 70° | 7804.2 | 7186.3 | 6913.8 | 7411.4 | 8780.0 | 8642.5 | 7431.8 | 5015.5 | 2828.6 | 2269.9 | 1644.8 |
| 72.5° | 7764.0 | 7117.1 | 7019.0 | 8049.2 | 9882.2 | 9796.4 | 7497.2 | 3988.6 | 1894.6 | 1241.1 | 820.3 |
| 75° | 6325.3 | 5822.5 | 6045.2 | 7619.9 | 9564.7 | 9560.4 | 6509.1 | 2468.9 | 971.9 | 637.4 | 518.4 |
| 77.5° | 3497.2 | 3302.0 | 3956.4 | 5769.4 | 7615.6 | 7654.5 | 4398.0 | 1119.8 | 524.1 | 451.6 | 390.5 |
| 80° | 1225.0 | 1207.0 | 1714.5 | 3113.4 | 5009.8 | 5019.3 | 2045.2 | 512.3 | 381.0 | 341.7 | 286.7 |
| 82.5° | 447.8 | 444.0 | 710.8 | 1446.3 | 2758.4 | 2752.3 | 775.7 | 318.9 | 282.4 | 241.7 | 189.1 |
| 85° | 178.7 | 174.9 | 325.1 | 642.1 | 1267.1 | 1246.8 | 301.4 | 181.0 | 184.8 | 144.1 | 92.9 |
| 87.5° | 49.3 | 51.2 | 110.4 | 200.9 | 388.1 | 359.7 | 75.8 | 61.1 | 74.9 | 58.8 | 29.4 |
| 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: P598166
 CATALOG NUMBER: PMM-SA4A-827-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 | 599.0 |
| 2.5° | 719.8 | 724.6 | 677.6 | 694.2 | 715.6 | 726.9 | 732.6 | 708.4 | 716.5 | 750.6 | 749.2 |
| 5° | 923.6 | 904.6 | 886.6 | 905.1 | 892.8 | 875.2 | 903.7 | 902.3 | 920.7 | 939.2 | 943.5 |
| 7.5° | 1075.7 | 1051.1 | 1042.5 | 1000.8 | 959.1 | 916.9 | 953.4 | 976.2 | 980.9 | 1026.9 | 1046.3 |
| 10° | 1130.7 | 1121.2 | 1124.5 | 1069.5 | 1064.3 | 1068.6 | 1034.9 | 998.5 | 1020.7 | 1001.8 | 1016.0 |
| 12.5° | 1257.7 | 1281.4 | 1222.6 | 1185.2 | 1181.8 | 1155.8 | 1088.5 | 1064.8 | 1039.7 | 1065.7 | 1052.5 |
| 15° | 1359.5 | 1403.6 | 1340.6 | 1274.7 | 1200.3 | 1160.0 | 1102.7 | 1066.7 | 1050.1 | 1055.8 | 1039.7 |
| 17.5° | 1508.8 | 1550.0 | 1389.9 | 1288.9 | 1212.2 | 1152.9 | 1065.3 | 988.5 | 1029.3 | 1032.6 | 1014.1 |
| 20° | 1607.9 | 1610.7 | 1406.5 | 1253.9 | 1184.7 | 1081.9 | 996.6 | 929.3 | 976.2 | 1024.0 | 1044.9 |
| 22.5° | 1704.5 | 1683.2 | 1426.8 | 1225.9 | 1084.7 | 985.2 | 943.5 | 939.2 | 974.3 | 1014.6 | 1019.3 |
| 25° | 1777.0 | 1780.3 | 1438.7 | 1215.5 | 1025.9 | 890.4 | 890.4 | 921.2 | 952.0 | 1047.7 | 1043.0 |
| 27.5° | 1952.8 | 1823.5 | 1392.7 | 1167.6 | 944.4 | 835.0 | 890.9 | 932.1 | 946.8 | 1050.6 | 1061.0 |
| 30° | 2080.8 | 1996.4 | 1402.2 | 1085.6 | 862.0 | 808.9 | 854.9 | 906.5 | 947.3 | 1067.2 | 1063.4 |
| 32.5° | 2295.4 | 2068.5 | 1424.5 | 970.5 | 800.4 | 799.0 | 839.7 | 894.2 | 943.0 | 1049.2 | 1054.8 |
| 35° | 2532.9 | 2280.8 | 1362.4 | 882.8 | 785.7 | 793.3 | 845.9 | 867.7 | 925.0 | 1042.1 | 1047.3 |
| 37.5° | 2972.1 | 2391.6 | 1323.1 | 815.1 | 776.2 | 798.0 | 817.9 | 851.6 | 909.4 | 1006.5 | 1040.6 |
| 40° | 3229.9 | 2620.1 | 1177.1 | 775.7 | 756.3 | 794.2 | 804.2 | 832.6 | 863.9 | 963.9 | 985.7 |
| 42.5° | 3569.2 | 2692.1 | 1052.5 | 732.1 | 746.4 | 778.6 | 808.4 | 815.5 | 836.4 | 896.6 | 936.4 |
| 45° | 3852.1 | 2746.1 | 920.3 | 697.1 | 712.7 | 813.2 | 815.1 | 811.7 | 808.0 | 830.2 | 862.9 |
| 47.5° | 4145.0 | 2891.1 | 798.5 | 658.2 | 699.9 | 841.6 | 818.4 | 788.1 | 772.4 | 775.3 | 805.6 |
| 50° | 4468.2 | 2996.3 | 712.2 | 626.5 | 702.8 | 841.6 | 834.5 | 763.9 | 732.6 | 724.6 | 756.3 |
| 52.5° | 4752.5 | 3008.6 | 646.8 | 600.9 | 690.9 | 812.7 | 845.4 | 748.7 | 696.1 | 676.7 | 706.5 |
| 55° | 4907.4 | 2852.7 | 599.5 | 577.7 | 660.6 | 786.6 | 839.7 | 740.2 | 652.1 | 637.4 | 663.9 |
| 57.5° | 4904.1 | 2594.0 | 559.2 | 545.4 | 626.0 | 750.1 | 808.0 | 693.8 | 625.0 | 616.5 | 642.6 |
| 60° | 4727.4 | 2290.7 | 528.4 | 518.9 | 590.4 | 697.1 | 751.1 | 663.4 | 599.0 | 594.7 | 623.1 |
| 62.5° | 4326.5 | 1977.5 | 498.5 | 490.9 | 557.3 | 659.6 | 724.1 | 629.8 | 572.0 | 571.5 | 598.5 |
| 65° | 3543.2 | 1587.5 | 470.6 | 468.7 | 526.5 | 622.7 | 698.5 | 601.3 | 544.0 | 553.5 | 581.0 |
| 67.5° | 2441.4 | 1115.5 | 440.7 | 446.4 | 498.0 | 587.1 | 679.1 | 582.4 | 514.6 | 534.1 | 558.7 |
| 70° | 1339.6 | 690.0 | 407.5 | 418.9 | 462.0 | 545.9 | 648.7 | 551.6 | 476.2 | 506.1 | 523.2 |
| 72.5° | 681.4 | 460.1 | 366.3 | 384.3 | 418.0 | 485.2 | 591.9 | 507.0 | 435.0 | 446.4 | 455.4 |
| 75° | 457.8 | 346.4 | 320.3 | 340.2 | 364.4 | 427.4 | 525.1 | 465.3 | 395.7 | 394.3 | 404.2 |
| 77.5° | 345.9 | 270.6 | 272.0 | 294.8 | 310.4 | 375.8 | 472.0 | 430.3 | 362.5 | 359.2 | 373.9 |
| 80° | 253.0 | 205.2 | 218.9 | 242.6 | 256.8 | 337.4 | 437.4 | 391.4 | 317.5 | 304.2 | 316.5 |
| 82.5° | 167.8 | 145.5 | 162.1 | 185.8 | 197.1 | 282.0 | 397.1 | 332.2 | 258.7 | 225.1 | 227.0 |
| 85° | 79.1 | 76.3 | 96.7 | 108.0 | 122.7 | 174.9 | 297.1 | 229.8 | 164.9 | 136.5 | 142.6 |
| 87.5° | 18.0 | 24.2 | 31.7 | 31.3 | 36.5 | 46.9 | 92.4 | 64.4 | 47.9 | 32.7 | 21.8 |
| 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)