

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: P598097

Luminaire Tested: **PMM-SA3B-827-U-T3-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3B-827-U-T3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7980 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

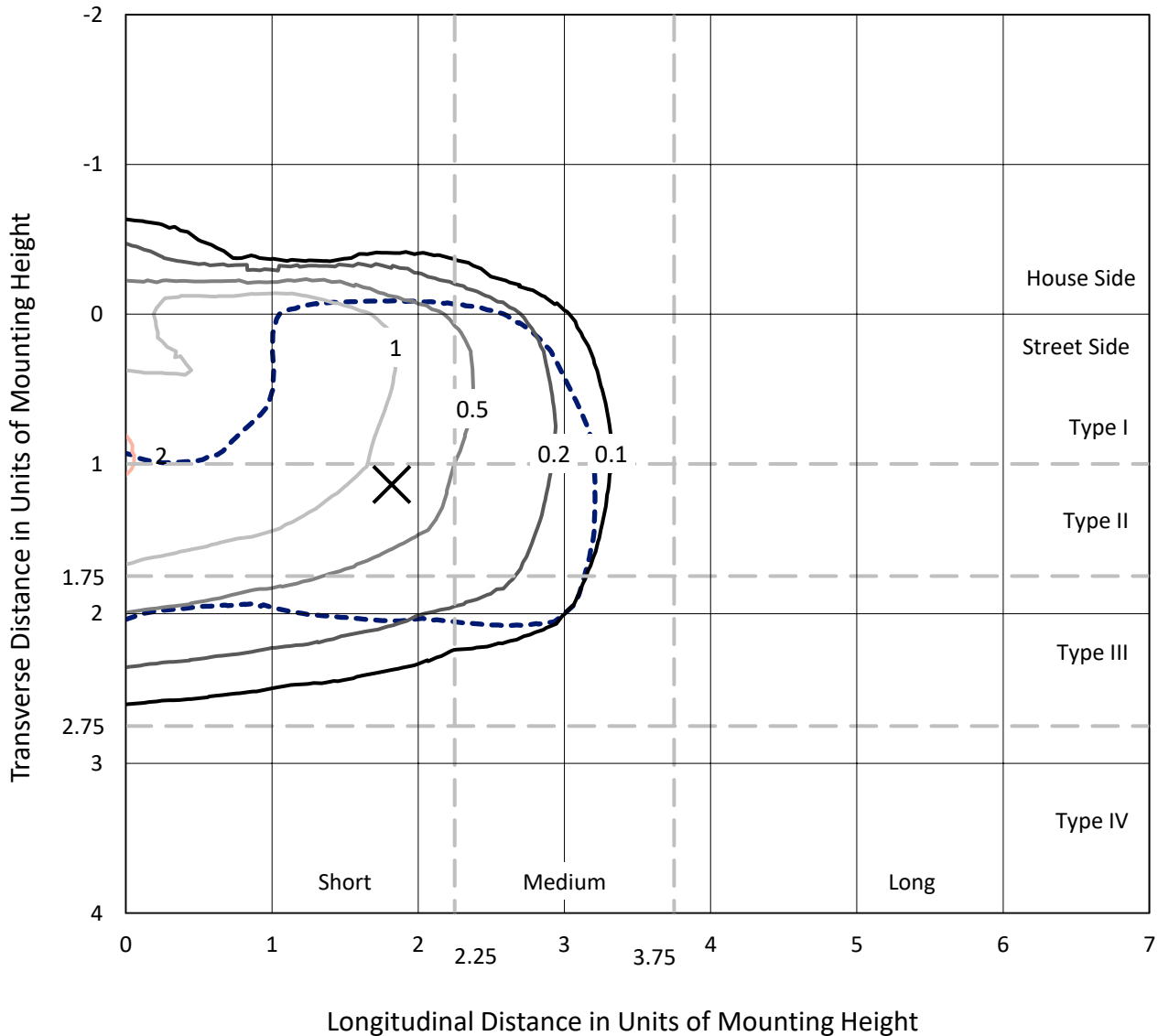
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P598097
 CATALOG NUMBER: PMM-SA3B-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

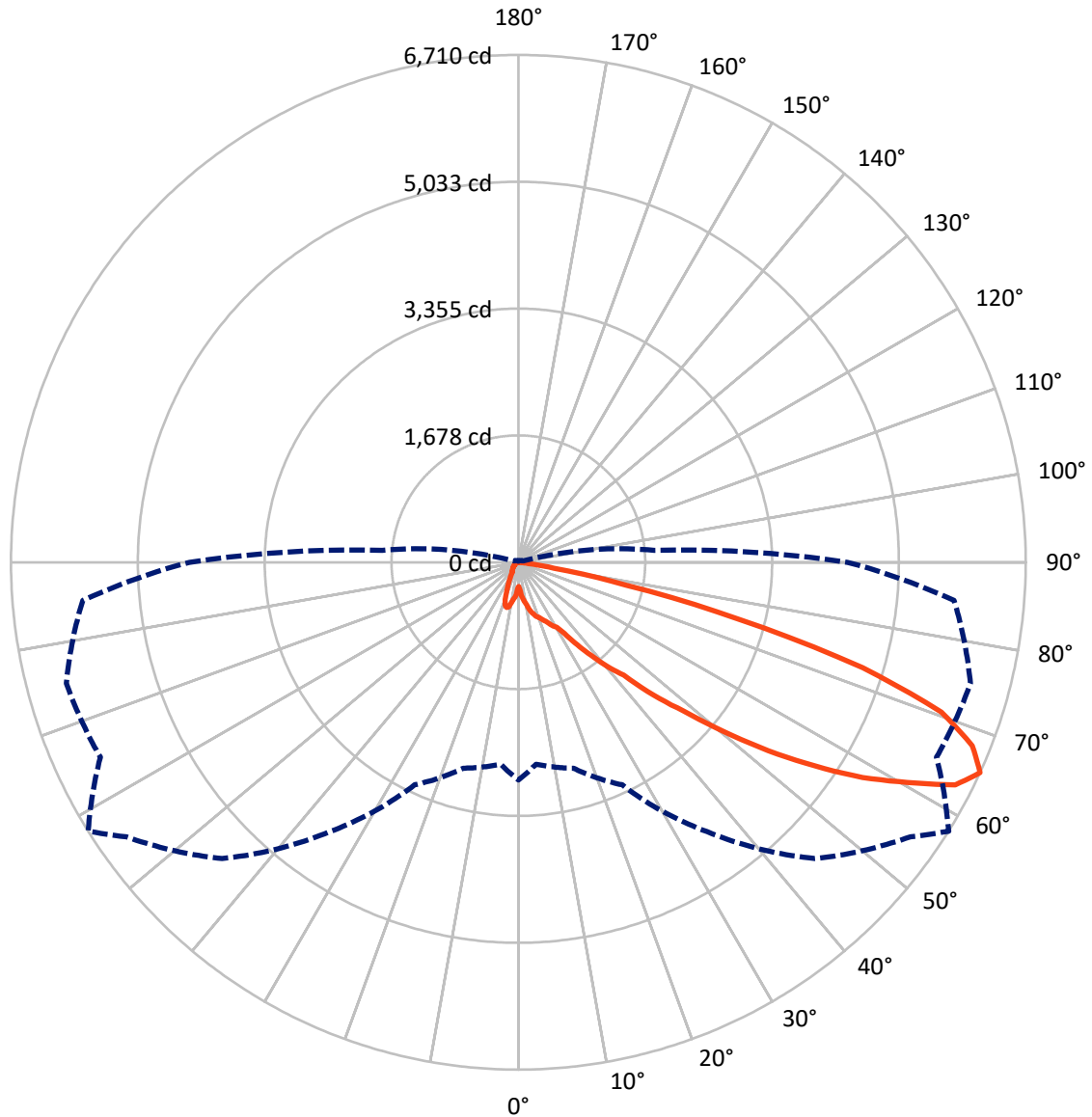
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

REPORT NUMBER: P598097
CATALOG NUMBER: PMM-SA3B-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P598097

CATALOG NUMBER: PMM-SA3B-827-U-T3-HSS

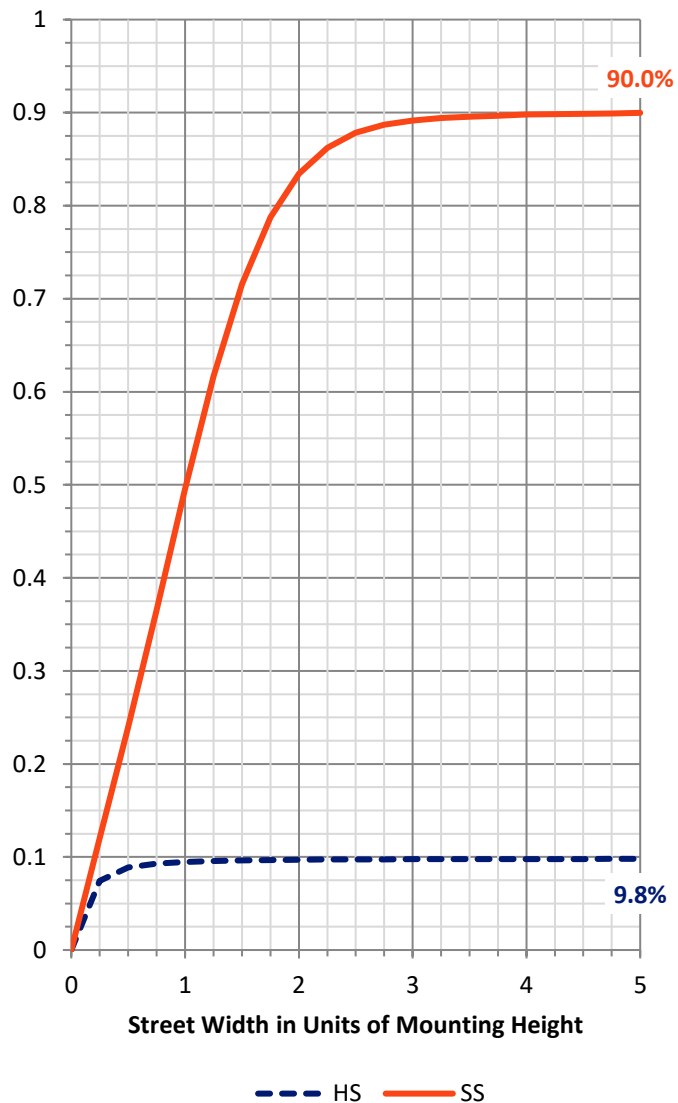
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 787.4 | 0.0 | 787.4 |
| | % Fixture | 9.9 | 0.0 | 9.9 |
| Street Side | Lumens | 7192.6 | 0.0 | 7192.6 |
| | % Fixture | 90.1 | 0.0 | 90.1 |
| Total | Lumens | 7980.0 | 0.0 | 7980.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.9 | 0.6 |
| 10°-20° | 163.8 | 2.1 |
| 20°-30° | 317.1 | 4.0 |
| 30°-40° | 632.6 | 7.9 |
| 40°-50° | 1293.3 | 16.2 |
| 50°-60° | 2293.9 | 28.7 |
| 60°-70° | 2418.4 | 30.3 |
| 70°-80° | 784.1 | 9.8 |
| 80°-90° | 32.1 | 0.4 |
| 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° | 7980.0 | 100.0 |
| 0°-180° | 7980.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P598097

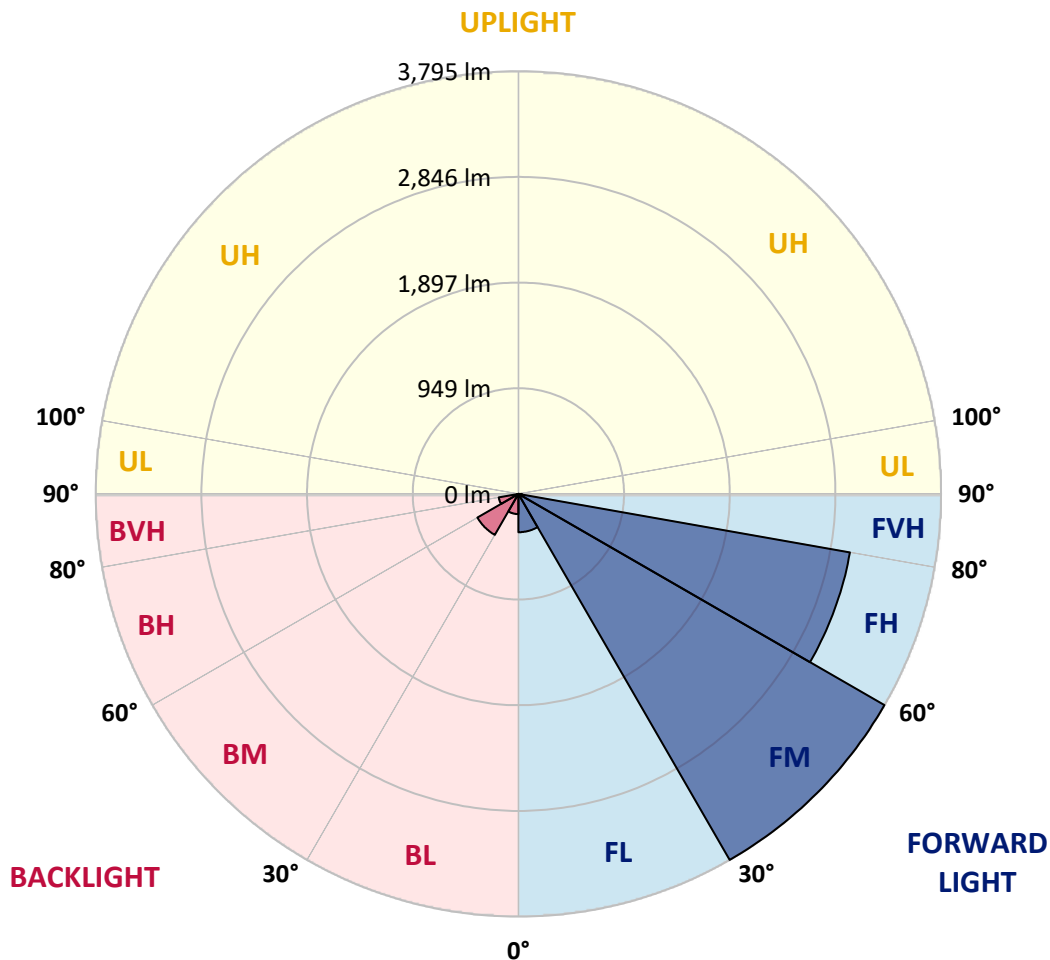
CATALOG NUMBER: PMM-SA3B-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 344.3 | 4.3 | | | |
| FM (30°-60°) | 3794.9 | 47.6 | | | |
| FH (60°-80°) | 3022.7 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 30.7 | 0.4 | | | G1/100 |
| BL (0°-30°) | 181.5 | 2.3 | B1/500 | | |
| BM (30°-60°) | 424.8 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 179.7 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P598097

CATALOG NUMBER: PMM-SA3B-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 |
| 2.5° | 390.0 | 378.3 | 359.9 | 363.0 | 366.6 | 373.8 | 368.0 | 362.6 | 356.7 | 349.1 | 378.3 |
| 5° | 470.9 | 451.5 | 449.7 | 445.7 | 442.6 | 442.1 | 449.3 | 447.1 | 450.2 | 464.6 | 479.4 |
| 7.5° | 500.5 | 492.4 | 477.2 | 483.4 | 473.6 | 465.9 | 497.8 | 508.2 | 527.9 | 534.7 | 573.3 |
| 10° | 497.4 | 485.7 | 492.0 | 495.1 | 501.9 | 529.7 | 549.9 | 561.2 | 578.2 | 615.1 | 607.5 |
| 12.5° | 511.8 | 522.1 | 528.8 | 529.3 | 563.9 | 615.1 | 629.5 | 638.9 | 669.5 | 683.8 | 721.6 |
| 15° | 559.8 | 576.9 | 566.1 | 570.6 | 581.8 | 644.3 | 678.0 | 698.7 | 741.8 | 788.5 | 798.0 |
| 17.5° | 628.6 | 639.4 | 616.9 | 600.7 | 631.7 | 665.9 | 727.0 | 748.5 | 775.9 | 885.1 | 905.3 |
| 20° | 715.3 | 733.7 | 685.2 | 620.9 | 661.8 | 702.3 | 768.8 | 779.1 | 808.3 | 950.7 | 982.6 |
| 22.5° | 917.9 | 890.5 | 816.4 | 716.2 | 704.1 | 722.0 | 785.4 | 825.8 | 875.2 | 987.6 | 1061.7 |
| 25° | 1117.9 | 1108.4 | 999.2 | 887.4 | 806.5 | 766.1 | 850.1 | 872.5 | 953.4 | 1075.2 | 1116.1 |
| 27.5° | 1340.3 | 1359.1 | 1176.7 | 1108.9 | 950.3 | 818.2 | 890.5 | 946.7 | 1042.4 | 1107.1 | 1205.5 |
| 30° | 1633.7 | 1603.5 | 1389.7 | 1321.8 | 1140.8 | 961.5 | 995.2 | 998.8 | 1139.4 | 1212.2 | 1305.7 |
| 32.5° | 1863.7 | 1883.0 | 1614.3 | 1510.1 | 1365.4 | 1182.1 | 1073.8 | 1120.6 | 1221.2 | 1383.4 | 1471.9 |
| 35° | 2112.6 | 2110.8 | 1848.9 | 1708.7 | 1519.5 | 1362.3 | 1307.0 | 1341.2 | 1467.4 | 1651.2 | 1674.5 |
| 37.5° | 2484.6 | 2452.7 | 2143.6 | 1938.3 | 1777.4 | 1643.1 | 1600.9 | 1555.5 | 1685.8 | 1861.0 | 1948.6 |
| 40° | 2835.5 | 2725.4 | 2439.7 | 2196.2 | 1990.4 | 1935.6 | 1782.8 | 1810.7 | 1849.3 | 2080.7 | 2322.9 |
| 42.5° | 3190.0 | 3121.7 | 2739.8 | 2535.8 | 2282.9 | 2152.6 | 2052.8 | 2039.8 | 2223.6 | 2497.7 | 2747.9 |
| 45° | 3657.7 | 3448.8 | 3143.3 | 2964.0 | 2671.1 | 2540.3 | 2459.9 | 2508.0 | 2673.3 | 3073.7 | 3240.3 |
| 47.5° | 4050.4 | 3858.1 | 3595.7 | 3323.5 | 3016.1 | 3163.1 | 3012.1 | 2936.2 | 3163.1 | 3576.9 | 3798.4 |
| 50° | 4387.9 | 4173.5 | 3908.0 | 3706.3 | 3656.4 | 3797.5 | 3492.0 | 3519.8 | 3667.2 | 4153.3 | 4278.2 |
| 52.5° | 4633.2 | 4407.6 | 4175.8 | 4078.3 | 4282.7 | 4353.7 | 4200.5 | 4138.9 | 4272.8 | 4644.9 | 4705.5 |
| 55° | 4817.8 | 4586.9 | 4405.8 | 4540.2 | 4935.6 | 4912.2 | 4966.1 | 4755.8 | 4883.9 | 5157.5 | 5128.8 |
| 57.5° | 4829.1 | 4555.4 | 4449.4 | 4665.5 | 5208.3 | 5570.0 | 5727.7 | 5370.0 | 5442.8 | 5558.3 | 5493.6 |
| 60° | 4475.9 | 4203.6 | 4195.1 | 4502.0 | 5287.4 | 5740.2 | 6085.3 | 5911.0 | 5813.5 | 5899.3 | 5776.6 |
| 62.5° | 3772.3 | 3581.8 | 3670.8 | 4010.0 | 4993.1 | 5646.3 | 6275.8 | 6485.6 | 6106.0 | 6125.3 | 5951.0 |
| 65° | 2880.5 | 2680.5 | 2819.8 | 3247.1 | 4349.7 | 5541.2 | 6329.7 | 6710.3 | 6100.6 | 6189.5 | 5783.8 |
| 67.5° | 1907.7 | 1791.8 | 1949.5 | 2420.4 | 3458.3 | 4891.5 | 6301.9 | 6474.4 | 5906.9 | 5938.4 | 5163.3 |
| 70° | 984.9 | 956.6 | 1084.2 | 1455.7 | 2325.1 | 3757.9 | 6028.2 | 5933.9 | 5513.8 | 5115.7 | 3982.6 |
| 72.5° | 315.4 | 316.8 | 439.4 | 665.0 | 1253.5 | 2287.8 | 4633.6 | 4763.0 | 4412.1 | 3742.2 | 2431.6 |
| 75° | 139.7 | 137.5 | 183.8 | 279.0 | 522.5 | 1025.8 | 2878.7 | 3018.4 | 2747.0 | 2058.7 | 1022.2 |
| 77.5° | 100.6 | 97.5 | 117.7 | 163.1 | 258.8 | 347.8 | 1349.7 | 1456.6 | 1245.5 | 713.5 | 234.1 |
| 80° | 71.0 | 70.5 | 85.4 | 114.6 | 161.7 | 154.6 | 426.4 | 478.1 | 382.8 | 173.0 | 68.7 |
| 82.5° | 40.0 | 41.3 | 59.3 | 80.9 | 98.4 | 77.3 | 120.0 | 132.1 | 128.9 | 92.1 | 30.1 |
| 85° | 19.3 | 21.6 | 38.6 | 58.4 | 51.7 | 30.1 | 42.7 | 46.3 | 53.9 | 53.5 | 15.3 |
| 87.5° | 0.0 | 0.0 | 15.7 | 26.5 | 13.9 | 4.5 | 13.0 | 14.8 | 14.4 | 17.1 | 3.6 |
| 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: P598097
 CATALOG NUMBER: PMM-SA3B-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 | 319.5 |
| 2.5° | 384.2 | 381.5 | 347.3 | 350.0 | 357.6 | 354.5 | 357.2 | 350.9 | 343.7 | 372.9 | 372.5 |
| 5° | 485.7 | 465.5 | 454.7 | 444.8 | 446.6 | 426.4 | 438.1 | 443.5 | 442.6 | 459.2 | 463.7 |
| 7.5° | 574.7 | 547.7 | 526.1 | 505.5 | 474.0 | 445.7 | 463.2 | 474.5 | 482.1 | 510.9 | 522.1 |
| 10° | 616.4 | 594.4 | 585.9 | 545.4 | 523.0 | 505.5 | 484.3 | 469.1 | 475.4 | 467.7 | 475.4 |
| 12.5° | 708.1 | 693.3 | 660.5 | 619.6 | 592.6 | 556.7 | 478.1 | 412.5 | 372.0 | 372.5 | 369.8 |
| 15° | 791.7 | 790.8 | 741.8 | 673.9 | 595.8 | 493.3 | 370.7 | 288.0 | 249.8 | 239.0 | 235.4 |
| 17.5° | 900.8 | 887.4 | 798.0 | 697.8 | 557.1 | 381.9 | 252.5 | 197.2 | 193.6 | 199.9 | 197.2 |
| 20° | 970.5 | 950.7 | 825.8 | 663.2 | 459.2 | 258.3 | 190.5 | 174.8 | 185.6 | 194.5 | 192.3 |
| 22.5° | 1040.1 | 1010.5 | 846.9 | 620.9 | 326.6 | 189.2 | 172.1 | 169.4 | 176.1 | 187.4 | 189.2 |
| 25° | 1078.3 | 1072.5 | 888.3 | 541.9 | 223.8 | 165.8 | 165.8 | 164.9 | 167.1 | 175.2 | 173.9 |
| 27.5° | 1189.3 | 1110.2 | 857.3 | 422.8 | 173.0 | 152.3 | 154.6 | 153.7 | 145.6 | 153.7 | 154.1 |
| 30° | 1258.5 | 1222.1 | 859.5 | 301.0 | 152.3 | 134.8 | 140.6 | 133.4 | 121.3 | 128.1 | 126.7 |
| 32.5° | 1397.8 | 1307.0 | 852.8 | 203.1 | 138.8 | 128.5 | 119.5 | 109.2 | 100.2 | 102.9 | 100.6 |
| 35° | 1560.0 | 1490.8 | 761.6 | 163.1 | 129.4 | 113.7 | 99.3 | 89.0 | 79.5 | 81.8 | 81.3 |
| 37.5° | 1882.6 | 1662.9 | 686.1 | 146.9 | 123.1 | 104.2 | 87.6 | 73.2 | 68.3 | 69.6 | 71.0 |
| 40° | 2181.3 | 1950.0 | 545.4 | 139.7 | 112.3 | 93.0 | 72.3 | 62.0 | 58.9 | 59.8 | 61.1 |
| 42.5° | 2628.0 | 2178.2 | 412.0 | 132.5 | 101.5 | 78.6 | 60.2 | 53.5 | 50.3 | 52.1 | 53.0 |
| 45° | 3060.2 | 2372.3 | 307.8 | 126.3 | 92.6 | 67.8 | 50.8 | 46.3 | 42.7 | 44.0 | 45.8 |
| 47.5° | 3492.0 | 2588.0 | 229.6 | 116.4 | 82.7 | 58.4 | 43.6 | 40.4 | 38.2 | 38.6 | 40.9 |
| 50° | 3878.4 | 2688.6 | 180.6 | 104.2 | 74.6 | 50.8 | 39.5 | 36.4 | 35.5 | 35.9 | 37.7 |
| 52.5° | 4162.3 | 2689.5 | 152.3 | 93.5 | 66.9 | 44.9 | 37.3 | 33.7 | 33.2 | 34.1 | 35.9 |
| 55° | 4418.9 | 2617.6 | 132.1 | 84.0 | 60.2 | 40.9 | 35.5 | 32.3 | 32.3 | 33.2 | 35.0 |
| 57.5° | 4589.1 | 2485.5 | 114.6 | 74.1 | 54.4 | 38.6 | 34.1 | 31.0 | 30.6 | 30.1 | 31.5 |
| 60° | 4672.3 | 2305.4 | 97.0 | 65.1 | 49.0 | 37.3 | 33.2 | 27.4 | 27.0 | 26.1 | 27.0 |
| 62.5° | 4619.7 | 2079.8 | 81.3 | 56.2 | 43.6 | 35.5 | 29.2 | 23.8 | 22.9 | 21.1 | 22.5 |
| 65° | 4351.0 | 1805.7 | 68.7 | 48.1 | 37.7 | 30.1 | 24.7 | 20.2 | 18.0 | 15.7 | 15.3 |
| 67.5° | 3801.5 | 1467.0 | 57.5 | 41.3 | 32.3 | 24.7 | 20.2 | 18.0 | 13.9 | 12.1 | 11.7 |
| 70° | 2849.0 | 1001.5 | 47.6 | 35.5 | 27.0 | 21.1 | 17.1 | 16.2 | 13.0 | 11.7 | 10.8 |
| 72.5° | 1671.4 | 540.5 | 40.0 | 31.0 | 22.9 | 17.5 | 13.9 | 14.8 | 13.0 | 10.8 | 9.9 |
| 75° | 667.7 | 179.7 | 31.9 | 24.7 | 18.4 | 12.6 | 11.7 | 12.1 | 11.7 | 9.9 | 8.1 |
| 77.5° | 152.3 | 56.6 | 24.7 | 19.3 | 14.4 | 8.1 | 9.4 | 10.3 | 10.3 | 8.1 | 5.8 |
| 80° | 47.6 | 22.5 | 14.4 | 12.1 | 10.3 | 4.5 | 6.7 | 7.2 | 4.9 | 2.2 | 0.0 |
| 82.5° | 15.3 | 6.3 | 4.9 | 4.9 | 4.5 | 0.9 | 1.3 | 0.9 | 0.0 | 0.0 | 0.0 |
| 85° | 5.8 | 4.0 | 3.1 | 3.1 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.2 | 1.8 | 1.3 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 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)