

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: P598062

Luminaire Tested: **PMM-SA3A-827-U-RW**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P598062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-7)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3A-827-U-RW  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8855 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 96  
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

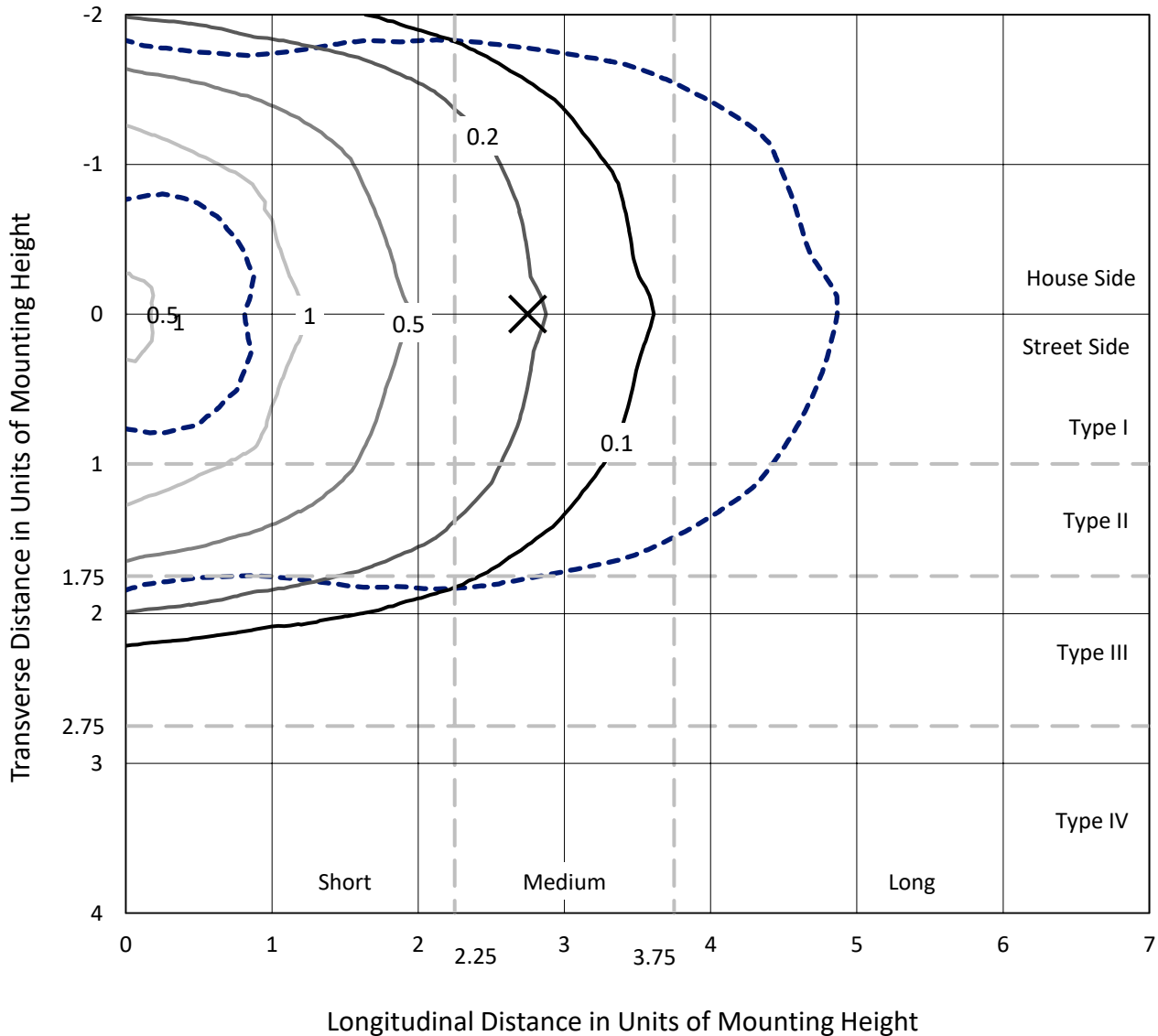


REPORT NUMBER: P598062

CATALOG NUMBER: PMM-SA3A-827-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

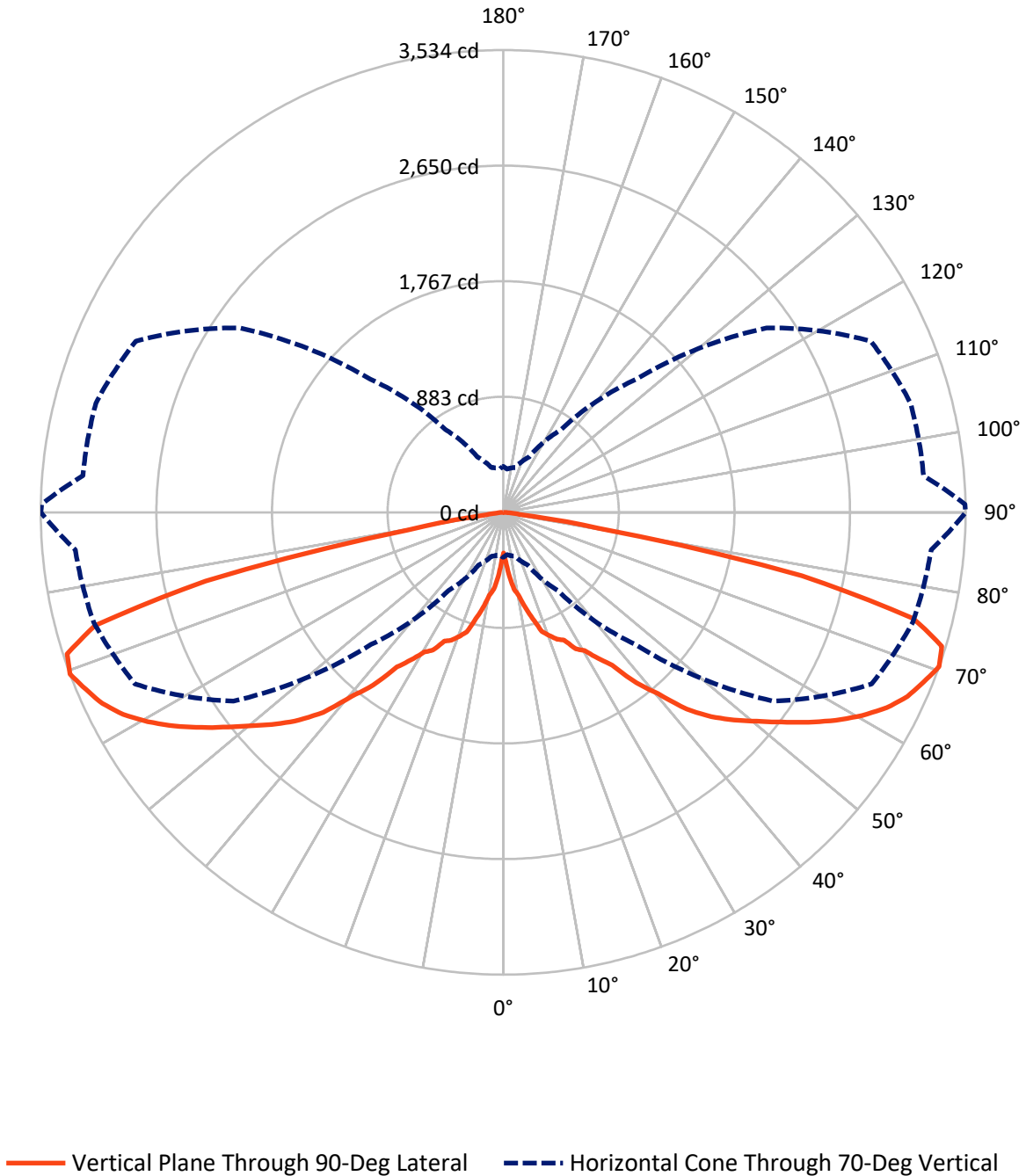
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P598062  
CATALOG NUMBER: PMM-SA3A-827-U-RW

### Luminous Intensity Polar Plot



REPORT NUMBER: P598062

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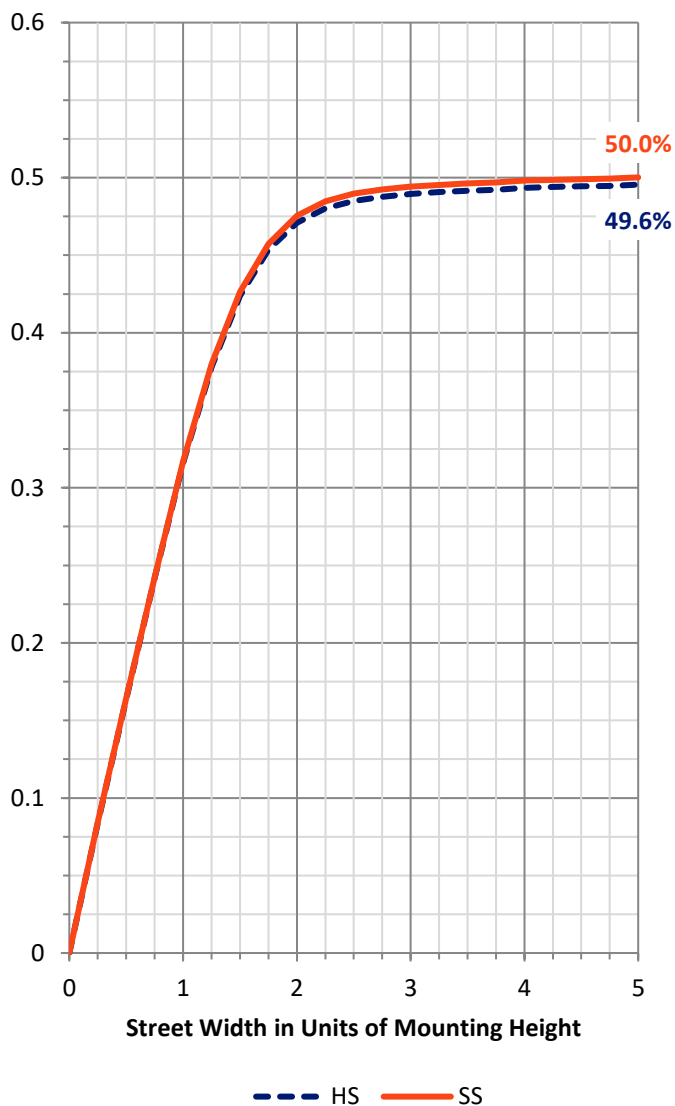
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4411.1   | 0.0    | 4411.1 |
|                    | % Fixture | 49.8     | 0.0    | 49.8   |
| <b>Street Side</b> | Lumens    | 4443.9   | 0.0    | 4443.9 |
|                    | % Fixture | 50.2     | 0.0    | 50.2   |
| <b>Total</b>       | Lumens    | 8855.0   | 0.0    | 8855.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.9   | 0.5       |
| 10°-20°   | 214.9  | 2.4       |
| 20°-30°   | 464.6  | 5.2       |
| 30°-40°   | 886.4  | 10.0      |
| 40°-50°   | 1610.3 | 18.2      |
| 50°-60°   | 2262.1 | 25.5      |
| 60°-70°   | 2159.8 | 24.4      |
| 70°-80°   | 1108.4 | 12.5      |
| 80°-90°   | 101.6  | 1.1       |
| 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°    | 8855.0 | 100.0     |
| 0°-180°   | 8855.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P598062

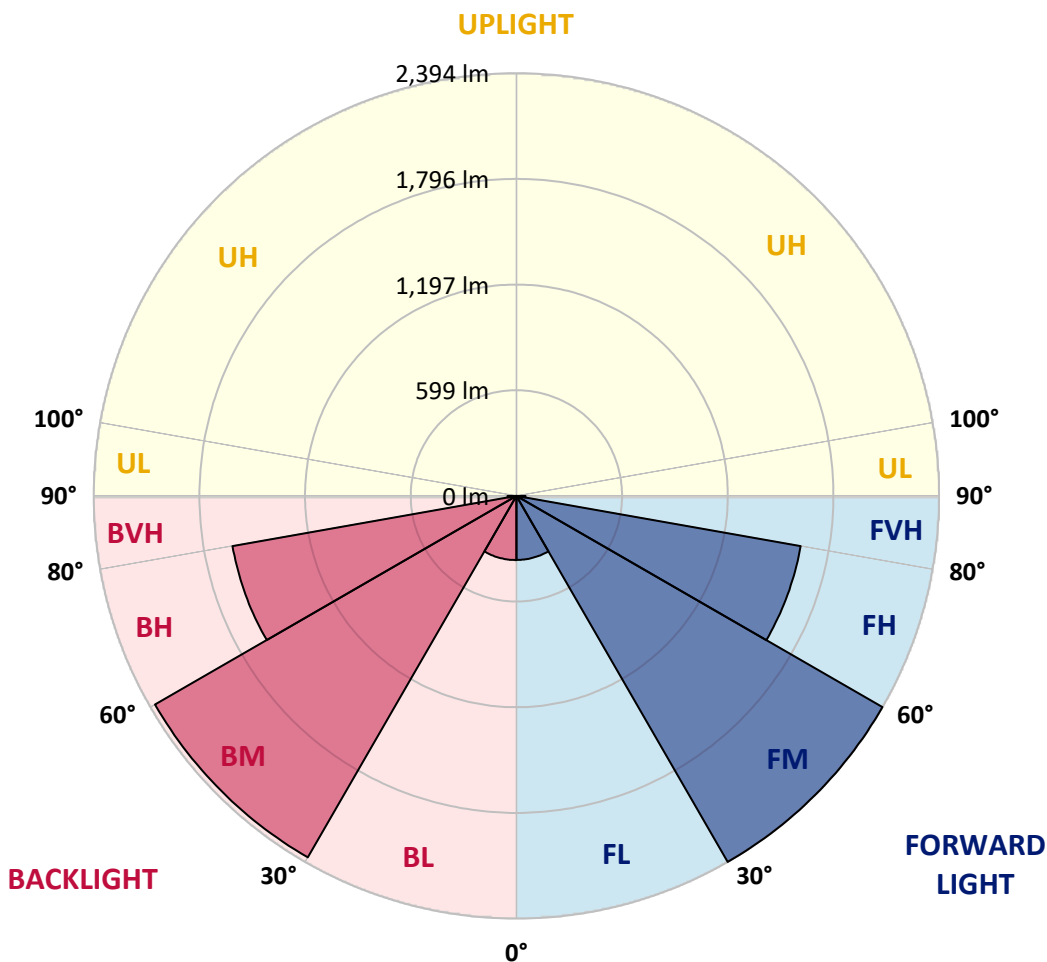
CATALOG NUMBER: PMM-SA3A-827-U-RW

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 362.8  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 2394.5 | 27.0      |                         |      |         |
| FH   | (60°-80°)   | 1635.0 | 18.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 51.6   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 363.5  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2364.3 | 26.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1633.2 | 18.4      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 50.1   | 0.6       |                         |      | 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 Short





REPORT NUMBER: P598062

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  |
| 2.5°  | 376.5  | 362.5  | 344.9  | 355.3  | 359.6  | 367.1  | 366.1  | 362.5  | 347.0  | 372.9  | 375.7  |
| 5°    | 471.2  | 449.0  | 440.7  | 439.3  | 441.4  | 434.2  | 457.6  | 450.8  | 463.3  | 486.6  | 492.0  |
| 7.5°  | 536.5  | 520.0  | 502.4  | 507.8  | 485.6  | 482.3  | 512.5  | 539.4  | 546.2  | 588.9  | 591.8  |
| 10°   | 567.4  | 551.2  | 555.9  | 552.7  | 550.2  | 571.0  | 585.0  | 604.7  | 633.1  | 637.0  | 643.1  |
| 12.5° | 593.6  | 600.0  | 620.5  | 619.8  | 653.5  | 690.5  | 685.1  | 705.6  | 710.2  | 759.7  | 744.7  |
| 15°   | 660.0  | 673.3  | 671.8  | 684.4  | 699.1  | 759.7  | 760.1  | 794.9  | 826.9  | 846.2  | 841.2  |
| 17.5° | 757.2  | 761.9  | 742.5  | 743.2  | 785.9  | 810.7  | 838.3  | 832.2  | 915.5  | 953.5  | 956.1  |
| 20°   | 815.4  | 827.2  | 805.0  | 775.5  | 851.3  | 885.4  | 900.8  | 865.3  | 954.3  | 1005.6 | 1005.6 |
| 22.5° | 916.9  | 886.4  | 852.7  | 833.0  | 899.7  | 936.0  | 934.2  | 924.1  | 971.5  | 1062.3 | 1053.7 |
| 25°   | 972.9  | 955.7  | 938.8  | 943.9  | 977.6  | 996.3  | 1021.0 | 997.7  | 1042.2 | 1109.7 | 1081.3 |
| 27.5° | 1079.2 | 1047.2 | 964.3  | 1030.3 | 1030.3 | 1016.3 | 1068.7 | 1079.9 | 1050.8 | 1160.6 | 1181.8 |
| 30°   | 1199.4 | 1188.3 | 1070.9 | 1140.9 | 1119.3 | 1079.9 | 1180.4 | 1173.2 | 1124.4 | 1236.3 | 1226.7 |
| 32.5° | 1313.1 | 1349.7 | 1238.5 | 1200.1 | 1232.4 | 1247.5 | 1194.7 | 1216.2 | 1225.6 | 1333.6 | 1328.9 |
| 35°   | 1487.6 | 1518.4 | 1370.9 | 1361.2 | 1307.4 | 1293.4 | 1333.6 | 1340.8 | 1341.5 | 1455.3 | 1434.4 |
| 37.5° | 1789.4 | 1744.9 | 1599.2 | 1530.6 | 1536.7 | 1519.9 | 1527.8 | 1471.1 | 1478.9 | 1644.0 | 1654.4 |
| 40°   | 2010.1 | 1959.8 | 1797.6 | 1748.5 | 1627.9 | 1700.0 | 1636.1 | 1630.4 | 1614.6 | 1828.5 | 1822.8 |
| 42.5° | 2253.8 | 2184.9 | 2005.4 | 1939.7 | 1811.6 | 1782.2 | 1752.8 | 1819.2 | 1814.9 | 2013.0 | 2056.7 |
| 45°   | 2437.9 | 2298.6 | 2205.0 | 2164.0 | 2087.2 | 2015.1 | 1987.1 | 2016.9 | 2003.3 | 2150.4 | 2226.9 |
| 47.5° | 2554.2 | 2433.2 | 2325.5 | 2239.4 | 2165.8 | 2342.8 | 2201.0 | 2161.2 | 2133.5 | 2298.3 | 2371.8 |
| 50°   | 2646.7 | 2507.1 | 2380.1 | 2351.4 | 2409.5 | 2566.0 | 2342.4 | 2254.5 | 2288.2 | 2409.5 | 2509.7 |
| 52.5° | 2671.9 | 2524.0 | 2409.9 | 2391.6 | 2548.8 | 2577.1 | 2540.9 | 2393.0 | 2384.0 | 2543.0 | 2664.0 |
| 55°   | 2595.1 | 2453.3 | 2399.1 | 2499.2 | 2672.9 | 2649.3 | 2704.5 | 2610.1 | 2546.6 | 2679.4 | 2831.6 |
| 57.5° | 2397.3 | 2256.6 | 2243.7 | 2388.0 | 2606.9 | 2808.6 | 2835.9 | 2761.2 | 2678.0 | 2818.6 | 2998.1 |
| 60°   | 2072.5 | 1944.1 | 1976.7 | 2136.1 | 2466.2 | 2753.3 | 2898.3 | 2830.1 | 2804.3 | 2944.3 | 3152.4 |
| 62.5° | 1566.9 | 1466.7 | 1554.0 | 1776.1 | 2209.3 | 2681.9 | 2984.4 | 2973.7 | 2936.4 | 3077.8 | 3288.8 |
| 65°   | 999.1  | 946.4  | 1035.4 | 1261.1 | 1810.6 | 2552.0 | 3025.7 | 3040.1 | 3074.5 | 3180.8 | 3394.3 |
| 67.5° | 580.7  | 552.7  | 606.9  | 791.7  | 1289.5 | 2095.5 | 2948.9 | 3154.9 | 3172.9 | 3233.9 | 3463.6 |
| 70°   | 343.4  | 325.1  | 347.4  | 444.7  | 730.0  | 1427.6 | 2515.4 | 3104.7 | 3240.3 | 3282.7 | 3533.5 |
| 72.5° | 262.0  | 244.8  | 235.1  | 263.1  | 381.1  | 737.5  | 1700.7 | 2631.7 | 3186.1 | 3250.4 | 3504.1 |
| 75°   | 226.5  | 209.9  | 198.5  | 201.0  | 226.8  | 350.3  | 922.0  | 1882.3 | 2714.9 | 2959.7 | 3236.7 |
| 77.5° | 194.5  | 179.8  | 171.5  | 170.8  | 174.1  | 192.4  | 385.4  | 1020.7 | 1700.4 | 2127.4 | 2333.4 |
| 80°   | 155.8  | 144.3  | 142.5  | 142.5  | 137.8  | 136.4  | 191.6  | 388.3  | 647.1  | 767.3  | 735.7  |
| 82.5° | 113.8  | 102.3  | 113.8  | 112.3  | 105.2  | 99.4   | 122.0  | 168.0  | 199.5  | 157.5  | 124.5  |
| 85°   | 76.8   | 66.4   | 75.0   | 76.4   | 69.6   | 51.7   | 73.2   | 84.0   | 86.1   | 53.8   | 44.5   |
| 87.5° | 26.9   | 26.2   | 42.3   | 37.0   | 30.1   | 17.6   | 26.9   | 29.1   | 30.5   | 19.0   | 12.9   |
| 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: P598062

CATALOG NUMBER: PMM-SA3A-827-U-RW

**CANDELA DISTRIBUTION (continued):**

|       | 91°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  | 310.8  |
| 2.5°  | 376.8  | 372.5  | 351.0  | 354.2  | 362.5  | 366.4  | 370.4  | 354.2  | 346.3  | 371.4  | 368.9  |
| 5°    | 493.5  | 477.7  | 460.1  | 457.6  | 458.6  | 443.2  | 452.2  | 448.2  | 450.0  | 466.2  | 469.4  |
| 7.5°  | 591.1  | 572.1  | 548.7  | 530.4  | 498.8  | 473.7  | 494.9  | 505.7  | 508.9  | 537.6  | 548.4  |
| 10°   | 643.8  | 627.7  | 620.9  | 586.4  | 576.0  | 572.8  | 567.7  | 550.5  | 569.5  | 562.7  | 568.1  |
| 12.5° | 747.2  | 744.0  | 708.4  | 685.8  | 688.0  | 694.1  | 662.5  | 645.3  | 620.5  | 659.3  | 645.3  |
| 15°   | 835.1  | 849.1  | 813.6  | 772.3  | 751.9  | 762.3  | 738.2  | 713.1  | 690.8  | 702.7  | 687.6  |
| 17.5° | 947.4  | 947.1  | 877.8  | 833.7  | 831.9  | 831.2  | 795.6  | 740.4  | 766.9  | 758.7  | 759.4  |
| 20°   | 1007.0 | 997.3  | 911.2  | 860.2  | 903.7  | 888.2  | 856.3  | 785.2  | 816.1  | 826.1  | 832.6  |
| 22.5° | 1056.9 | 1051.5 | 947.1  | 909.8  | 937.8  | 938.1  | 906.2  | 868.8  | 864.9  | 896.1  | 879.3  |
| 25°   | 1091.7 | 1113.2 | 1014.9 | 1005.9 | 1018.1 | 1005.9 | 974.7  | 950.3  | 934.5  | 981.2  | 934.5  |
| 27.5° | 1174.3 | 1143.8 | 1025.3 | 1076.3 | 1083.8 | 1022.5 | 1061.6 | 1032.9 | 989.1  | 1046.9 | 1065.9 |
| 30°   | 1233.1 | 1251.1 | 1098.5 | 1175.3 | 1166.4 | 1109.7 | 1125.8 | 1124.7 | 1072.3 | 1185.0 | 1171.7 |
| 32.5° | 1334.3 | 1312.8 | 1218.0 | 1211.9 | 1233.5 | 1231.0 | 1203.7 | 1217.0 | 1229.9 | 1311.7 | 1331.4 |
| 35°   | 1438.0 | 1461.0 | 1294.5 | 1335.8 | 1329.7 | 1290.9 | 1362.3 | 1354.1 | 1392.5 | 1560.4 | 1504.8 |
| 37.5° | 1672.0 | 1562.6 | 1466.0 | 1460.6 | 1501.6 | 1507.7 | 1484.7 | 1520.9 | 1603.8 | 1733.0 | 1792.6 |
| 40°   | 1825.3 | 1775.4 | 1611.4 | 1617.8 | 1561.1 | 1658.7 | 1594.1 | 1710.8 | 1773.9 | 1991.8 | 1970.6 |
| 42.5° | 2057.1 | 1935.4 | 1777.9 | 1799.4 | 1787.9 | 1740.9 | 1826.0 | 1885.9 | 1976.4 | 2142.5 | 2249.8 |
| 45°   | 2229.7 | 2062.8 | 1988.2 | 1974.9 | 1973.5 | 2055.3 | 2044.5 | 2140.4 | 2172.7 | 2297.6 | 2386.6 |
| 47.5° | 2360.7 | 2219.0 | 2108.4 | 2123.5 | 2079.7 | 2313.3 | 2188.8 | 2218.6 | 2283.9 | 2401.6 | 2505.3 |
| 50°   | 2516.1 | 2358.2 | 2232.6 | 2269.9 | 2376.5 | 2466.2 | 2353.5 | 2302.6 | 2334.5 | 2473.4 | 2589.0 |
| 52.5° | 2660.0 | 2493.9 | 2355.7 | 2386.9 | 2561.0 | 2520.1 | 2507.9 | 2379.0 | 2375.1 | 2486.7 | 2618.0 |
| 55°   | 2828.3 | 2641.0 | 2519.0 | 2618.0 | 2679.8 | 2629.2 | 2609.8 | 2452.9 | 2356.0 | 2418.1 | 2542.0 |
| 57.5° | 2993.4 | 2786.7 | 2665.4 | 2685.9 | 2764.1 | 2713.9 | 2568.5 | 2327.0 | 2206.0 | 2218.2 | 2343.5 |
| 60°   | 3148.1 | 2920.6 | 2820.4 | 2800.7 | 2863.1 | 2666.1 | 2411.7 | 2096.2 | 1935.8 | 1906.4 | 2014.8 |
| 62.5° | 3280.5 | 3032.5 | 2937.8 | 2884.0 | 2943.5 | 2667.9 | 2167.3 | 1725.9 | 1549.6 | 1449.9 | 1534.2 |
| 65°   | 3385.7 | 3125.5 | 3058.0 | 3030.0 | 3051.6 | 2505.7 | 1786.5 | 1267.2 | 1051.2 | 940.6  | 989.8  |
| 67.5° | 3455.7 | 3177.5 | 3146.7 | 3183.3 | 2896.2 | 2086.9 | 1323.6 | 811.1  | 611.2  | 550.9  | 581.7  |
| 70°   | 3528.2 | 3223.5 | 3222.4 | 3097.9 | 2455.8 | 1438.8 | 773.0  | 467.6  | 355.7  | 332.3  | 351.7  |
| 72.5° | 3503.7 | 3168.9 | 3185.1 | 2709.2 | 1701.8 | 769.1  | 408.0  | 264.5  | 240.8  | 249.1  | 266.3  |
| 75°   | 3244.6 | 2881.1 | 2803.2 | 1947.6 | 965.4  | 357.4  | 235.1  | 200.3  | 198.8  | 211.4  | 228.2  |
| 77.5° | 2353.5 | 2006.5 | 1800.5 | 1103.9 | 413.8  | 193.4  | 173.0  | 167.2  | 167.2  | 177.3  | 192.4  |
| 80°   | 775.9  | 671.5  | 699.8  | 427.1  | 195.6  | 133.5  | 134.9  | 137.5  | 136.7  | 139.2  | 151.8  |
| 82.5° | 127.4  | 132.1  | 204.2  | 174.4  | 118.1  | 91.2   | 101.9  | 106.9  | 108.4  | 96.9   | 110.2  |
| 85°   | 45.2   | 51.0   | 86.8   | 80.7   | 68.2   | 45.9   | 67.1   | 75.0   | 73.9   | 64.6   | 71.4   |
| 87.5° | 14.0   | 17.9   | 31.6   | 24.4   | 20.5   | 12.6   | 25.1   | 29.4   | 37.0   | 15.1   | 13.6   |
| 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)