

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: P598348

Luminaire Tested: **PMM-SA2B-835-U-RW**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598348
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-SA2B-835-U-RW
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8433 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

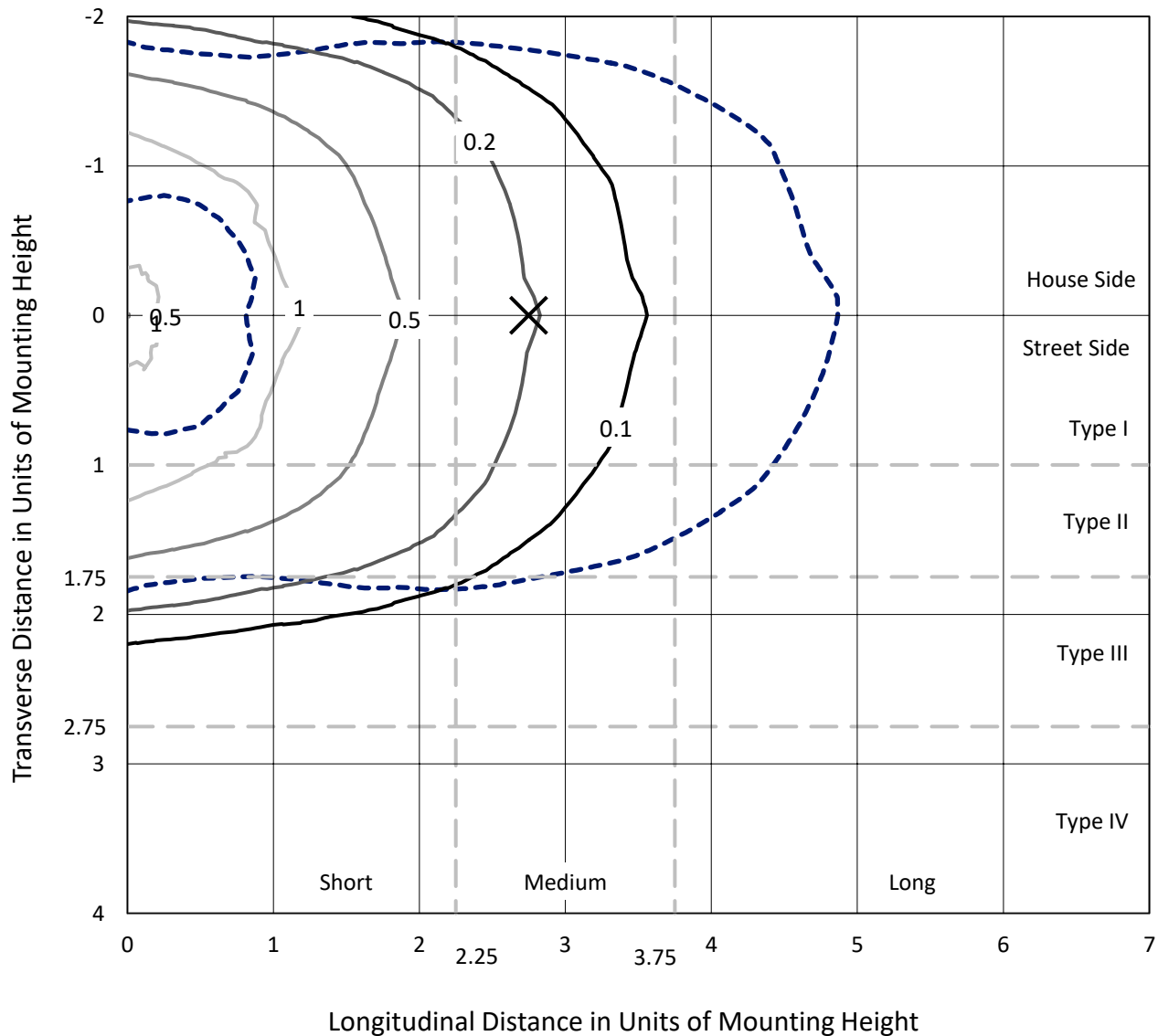
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P598348
 CATALOG NUMBER: PMM-SA2B-835-U-RW

Iso-Footcandle Lines of Horizontal Illumination

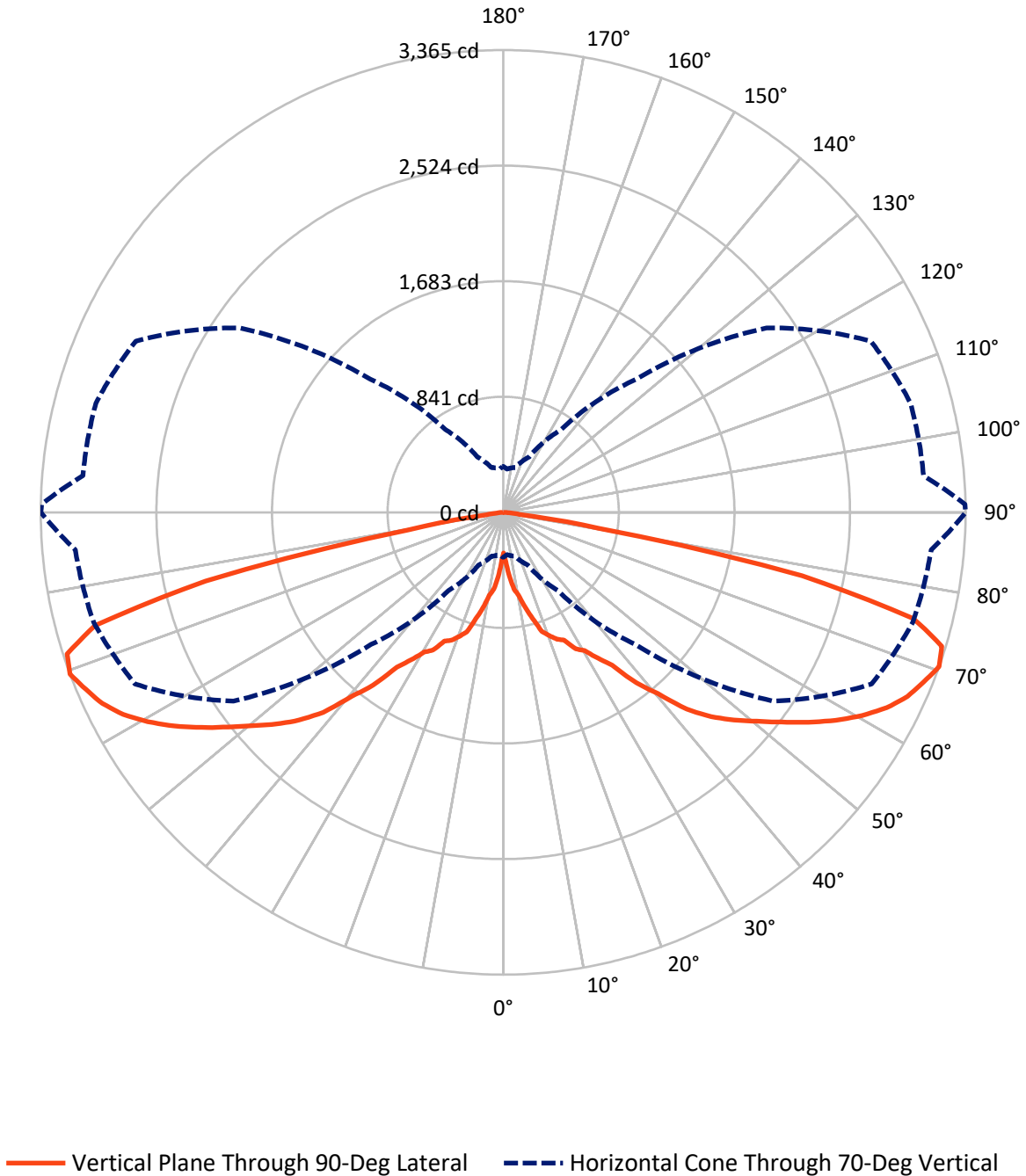
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P598348
CATALOG NUMBER: PMM-SA2B-835-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P598348

CATALOG NUMBER: PMM-SA2B-835-U-RW

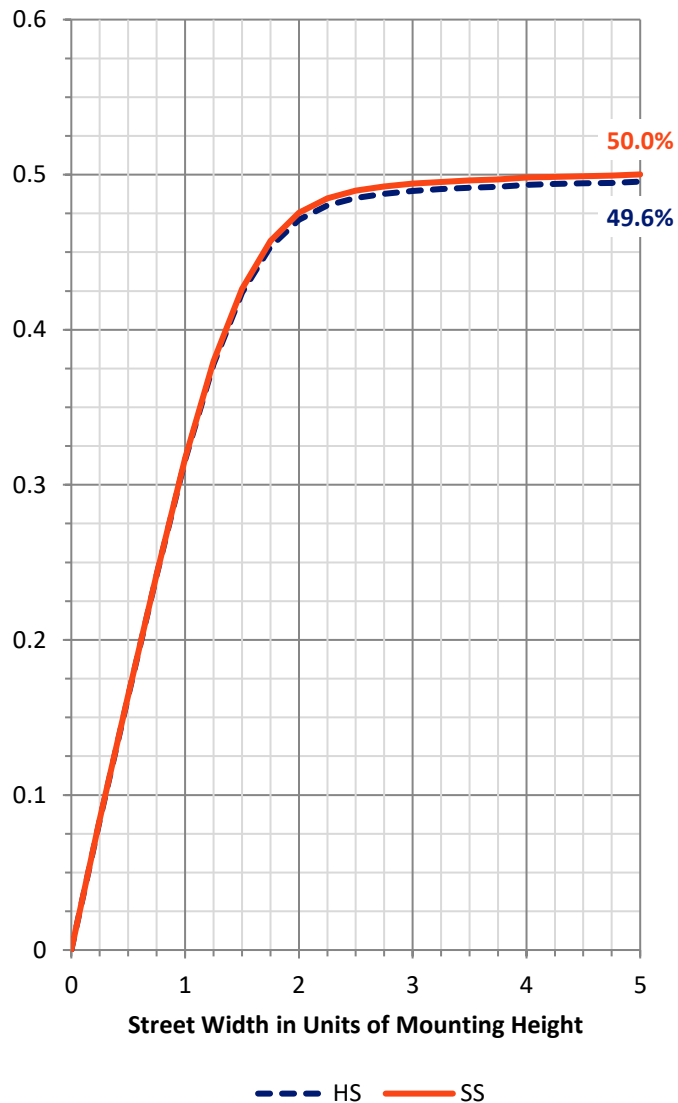
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4200.9 | 0.0 | 4200.9 |
| | % Fixture | 49.8 | 0.0 | 49.8 |
| Street Side | Lumens | 4232.1 | 0.0 | 4232.1 |
| | % Fixture | 50.2 | 0.0 | 50.2 |
| Total | Lumens | 8433.0 | 0.0 | 8433.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.6 | 0.5 |
| 10°-20° | 204.6 | 2.4 |
| 20°-30° | 442.5 | 5.2 |
| 30°-40° | 844.2 | 10.0 |
| 40°-50° | 1533.5 | 18.2 |
| 50°-60° | 2154.3 | 25.5 |
| 60°-70° | 2056.9 | 24.4 |
| 70°-80° | 1055.6 | 12.5 |
| 80°-90° | 96.8 | 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° | 8433.0 | 100.0 |
| 0°-180° | 8433.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P598348

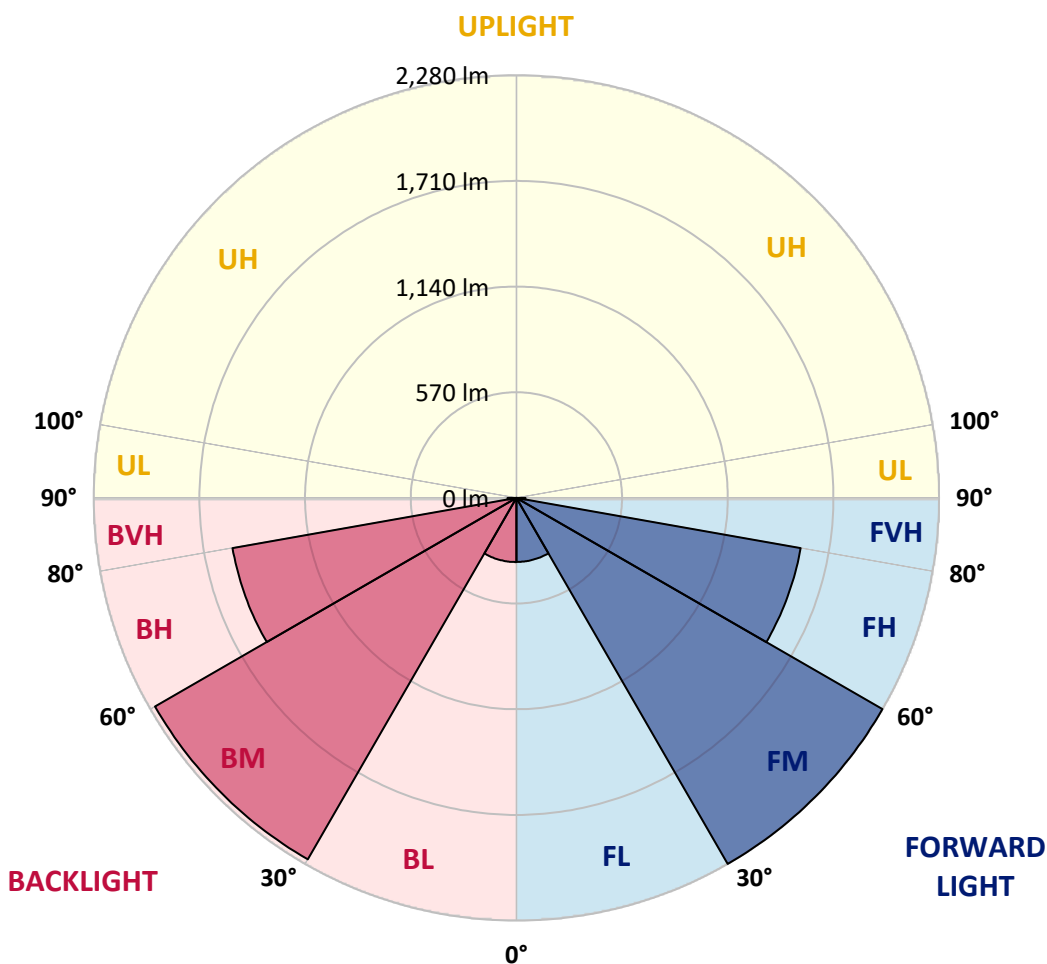
CATALOG NUMBER: PMM-SA2B-835-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 345.5 | 4.1 | | | |
| FM | (30°-60°) | 2280.4 | 27.0 | | | |
| FH | (60°-80°) | 1557.1 | 18.5 | | | G1/1800 |
| FVH | (80°-90°) | 49.1 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 346.2 | 4.1 | B1/500 | | |
| BM | (30°-60°) | 2251.6 | 26.7 | B2/2500 | | |
| BH | (60°-80°) | 1555.4 | 18.4 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 47.7 | 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: P598348

CATALOG NUMBER: PMM-SA2B-835-U-RW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 |
| 2.5° | 358.5 | 345.2 | 328.4 | 338.4 | 342.5 | 349.6 | 348.6 | 345.2 | 330.5 | 355.1 | 357.8 |
| 5° | 448.8 | 427.6 | 419.7 | 418.3 | 420.4 | 413.6 | 435.8 | 429.3 | 441.2 | 463.5 | 468.6 |
| 7.5° | 511.0 | 495.2 | 478.5 | 483.6 | 462.4 | 459.3 | 488.1 | 513.7 | 520.2 | 560.9 | 563.6 |
| 10° | 540.4 | 525.0 | 529.4 | 526.3 | 523.9 | 543.8 | 557.1 | 575.9 | 602.9 | 606.7 | 612.5 |
| 12.5° | 565.3 | 571.5 | 590.9 | 590.2 | 622.4 | 657.6 | 652.5 | 671.9 | 676.4 | 723.5 | 709.2 |
| 15° | 628.5 | 641.2 | 639.8 | 651.8 | 665.8 | 723.5 | 723.9 | 757.0 | 787.5 | 805.9 | 801.1 |
| 17.5° | 721.2 | 725.6 | 707.1 | 707.8 | 748.5 | 772.1 | 798.4 | 792.6 | 871.9 | 908.1 | 910.5 |
| 20° | 776.5 | 787.8 | 766.6 | 738.6 | 810.7 | 843.2 | 857.9 | 824.0 | 908.8 | 957.7 | 957.7 |
| 22.5° | 873.2 | 844.2 | 812.1 | 793.3 | 856.8 | 891.4 | 889.6 | 880.1 | 925.2 | 1011.7 | 1003.5 |
| 25° | 926.6 | 910.2 | 894.1 | 898.9 | 931.0 | 948.8 | 972.4 | 950.1 | 992.5 | 1056.8 | 1029.8 |
| 27.5° | 1027.7 | 997.3 | 918.4 | 981.2 | 981.2 | 967.9 | 1017.8 | 1028.4 | 1000.7 | 1105.3 | 1125.5 |
| 30° | 1142.2 | 1131.6 | 1019.9 | 1086.5 | 1066.0 | 1028.4 | 1124.1 | 1117.3 | 1070.8 | 1177.4 | 1168.2 |
| 32.5° | 1250.6 | 1285.4 | 1179.5 | 1142.9 | 1173.7 | 1188.0 | 1137.8 | 1158.3 | 1167.2 | 1270.0 | 1265.6 |
| 35° | 1416.7 | 1446.1 | 1305.6 | 1296.4 | 1245.1 | 1231.8 | 1270.0 | 1276.9 | 1277.6 | 1385.9 | 1366.1 |
| 37.5° | 1704.1 | 1661.7 | 1523.0 | 1457.7 | 1463.5 | 1447.4 | 1454.9 | 1400.9 | 1408.5 | 1565.7 | 1575.6 |
| 40° | 1914.3 | 1866.4 | 1712.0 | 1665.1 | 1550.3 | 1619.0 | 1558.2 | 1552.7 | 1537.7 | 1741.4 | 1735.9 |
| 42.5° | 2146.4 | 2080.7 | 1909.9 | 1847.3 | 1725.3 | 1697.3 | 1669.2 | 1732.5 | 1728.4 | 1917.0 | 1958.7 |
| 45° | 2321.7 | 2189.1 | 2099.9 | 2060.9 | 1987.8 | 1919.1 | 1892.4 | 1920.8 | 1907.8 | 2047.9 | 2120.7 |
| 47.5° | 2432.4 | 2317.3 | 2214.7 | 2132.7 | 2062.6 | 2231.1 | 2096.1 | 2058.2 | 2031.9 | 2188.7 | 2258.8 |
| 50° | 2520.6 | 2387.7 | 2266.7 | 2239.3 | 2294.7 | 2443.7 | 2230.8 | 2147.0 | 2179.2 | 2294.7 | 2390.0 |
| 52.5° | 2544.5 | 2403.7 | 2295.0 | 2277.6 | 2427.3 | 2454.3 | 2419.8 | 2279.0 | 2270.4 | 2421.8 | 2537.0 |
| 55° | 2471.4 | 2336.4 | 2284.8 | 2380.1 | 2545.6 | 2523.0 | 2575.6 | 2485.7 | 2425.3 | 2551.7 | 2696.6 |
| 57.5° | 2283.1 | 2149.1 | 2136.8 | 2274.2 | 2482.7 | 2674.7 | 2700.7 | 2629.6 | 2550.3 | 2684.3 | 2855.2 |
| 60° | 1973.8 | 1851.4 | 1882.5 | 2034.3 | 2348.7 | 2622.1 | 2760.2 | 2695.3 | 2670.6 | 2803.9 | 3002.2 |
| 62.5° | 1492.2 | 1396.8 | 1479.9 | 1691.5 | 2104.0 | 2554.1 | 2842.2 | 2832.0 | 2796.4 | 2931.1 | 3132.0 |
| 65° | 951.5 | 901.3 | 986.0 | 1201.0 | 1724.3 | 2430.4 | 2881.5 | 2895.2 | 2928.0 | 3029.2 | 3232.5 |
| 67.5° | 553.0 | 526.3 | 577.9 | 754.0 | 1228.0 | 1995.6 | 2808.4 | 3004.6 | 3021.7 | 3079.8 | 3298.5 |
| 70° | 327.1 | 309.7 | 330.8 | 423.5 | 695.2 | 1359.6 | 2395.5 | 2956.7 | 3085.9 | 3126.2 | 3365.1 |
| 72.5° | 249.5 | 233.1 | 223.9 | 250.5 | 363.0 | 702.4 | 1619.7 | 2506.3 | 3034.3 | 3095.5 | 3337.1 |
| 75° | 215.7 | 199.9 | 189.0 | 191.4 | 216.0 | 333.6 | 878.0 | 1792.6 | 2585.5 | 2818.6 | 3082.5 |
| 77.5° | 185.2 | 171.2 | 163.4 | 162.7 | 165.8 | 183.2 | 367.1 | 972.0 | 1619.3 | 2026.1 | 2222.2 |
| 80° | 148.3 | 137.4 | 135.7 | 135.7 | 131.2 | 129.9 | 182.5 | 369.8 | 616.2 | 730.7 | 700.6 |
| 82.5° | 108.3 | 97.4 | 108.3 | 107.0 | 100.1 | 94.7 | 116.2 | 160.0 | 190.0 | 150.0 | 118.6 |
| 85° | 73.1 | 63.2 | 71.4 | 72.8 | 66.3 | 49.2 | 69.7 | 80.0 | 82.0 | 51.3 | 42.4 |
| 87.5° | 25.6 | 24.9 | 40.3 | 35.2 | 28.7 | 16.7 | 25.6 | 27.7 | 29.1 | 18.1 | 12.3 |
| 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: P598348

CATALOG NUMBER: PMM-SA2B-835-U-RW

CANDELA DISTRIBUTION (continued):

| | 91° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 | 296.0 |
| 2.5° | 358.9 | 354.8 | 334.3 | 337.3 | 345.2 | 349.0 | 352.7 | 337.3 | 329.8 | 353.7 | 351.3 |
| 5° | 469.9 | 454.9 | 438.2 | 435.8 | 436.8 | 422.1 | 430.6 | 426.9 | 428.6 | 444.0 | 447.0 |
| 7.5° | 562.9 | 544.8 | 522.6 | 505.1 | 475.1 | 451.1 | 471.3 | 481.6 | 484.6 | 512.0 | 522.2 |
| 10° | 613.1 | 597.8 | 591.3 | 558.5 | 548.6 | 545.5 | 540.7 | 524.3 | 542.4 | 535.9 | 541.0 |
| 12.5° | 711.6 | 708.5 | 674.7 | 653.1 | 655.2 | 661.0 | 630.9 | 614.5 | 590.9 | 627.8 | 614.5 |
| 15° | 795.3 | 808.6 | 774.8 | 735.5 | 716.0 | 725.9 | 703.0 | 679.1 | 657.9 | 669.2 | 654.8 |
| 17.5° | 902.3 | 902.0 | 836.0 | 793.9 | 792.2 | 791.6 | 757.7 | 705.1 | 730.4 | 722.5 | 723.2 |
| 20° | 959.0 | 949.8 | 867.8 | 819.2 | 860.6 | 845.9 | 815.5 | 747.8 | 777.2 | 786.8 | 792.9 |
| 22.5° | 1006.5 | 1001.4 | 902.0 | 866.4 | 893.1 | 893.4 | 863.0 | 827.4 | 823.7 | 853.4 | 837.4 |
| 25° | 1039.7 | 1060.2 | 966.5 | 958.0 | 969.6 | 958.0 | 928.3 | 905.0 | 890.0 | 934.4 | 890.0 |
| 27.5° | 1118.3 | 1089.2 | 976.5 | 1025.0 | 1032.2 | 973.7 | 1011.0 | 983.6 | 941.9 | 997.0 | 1015.1 |
| 30° | 1174.3 | 1191.4 | 1046.2 | 1119.3 | 1110.8 | 1056.8 | 1072.2 | 1071.1 | 1021.2 | 1128.5 | 1115.9 |
| 32.5° | 1270.7 | 1250.2 | 1160.0 | 1154.2 | 1174.7 | 1172.3 | 1146.3 | 1159.0 | 1171.3 | 1249.2 | 1268.0 |
| 35° | 1369.5 | 1391.4 | 1232.8 | 1272.1 | 1266.3 | 1229.4 | 1297.4 | 1289.5 | 1326.1 | 1486.0 | 1433.1 |
| 37.5° | 1592.3 | 1488.1 | 1396.2 | 1391.0 | 1430.0 | 1435.8 | 1413.9 | 1448.5 | 1527.4 | 1650.4 | 1707.2 |
| 40° | 1738.3 | 1690.8 | 1534.6 | 1540.7 | 1486.7 | 1579.7 | 1518.2 | 1629.3 | 1689.4 | 1896.9 | 1876.7 |
| 42.5° | 1959.1 | 1843.2 | 1693.2 | 1713.7 | 1702.7 | 1658.0 | 1739.0 | 1796.0 | 1882.2 | 2040.4 | 2142.6 |
| 45° | 2123.5 | 1964.5 | 1893.4 | 1880.8 | 1879.4 | 1957.4 | 1947.1 | 2038.4 | 2069.1 | 2188.1 | 2272.8 |
| 47.5° | 2248.2 | 2113.2 | 2007.9 | 2022.3 | 1980.6 | 2203.1 | 2084.5 | 2112.9 | 2175.1 | 2287.2 | 2385.9 |
| 50° | 2396.2 | 2245.8 | 2126.2 | 2161.7 | 2263.2 | 2348.7 | 2241.4 | 2192.8 | 2223.3 | 2355.5 | 2465.6 |
| 52.5° | 2533.3 | 2375.0 | 2243.4 | 2273.2 | 2438.9 | 2400.0 | 2388.3 | 2265.6 | 2261.9 | 2368.2 | 2493.3 |
| 55° | 2693.5 | 2515.1 | 2398.9 | 2493.3 | 2552.1 | 2503.9 | 2485.4 | 2336.0 | 2243.8 | 2302.9 | 2420.8 |
| 57.5° | 2850.8 | 2653.9 | 2538.4 | 2557.9 | 2632.4 | 2584.5 | 2446.1 | 2216.1 | 2100.9 | 2112.5 | 2231.8 |
| 60° | 2998.1 | 2781.4 | 2686.0 | 2667.2 | 2726.7 | 2539.1 | 2296.7 | 1996.3 | 1843.5 | 1815.5 | 1918.7 |
| 62.5° | 3124.2 | 2888.0 | 2797.8 | 2746.5 | 2803.3 | 2540.8 | 2064.0 | 1643.6 | 1475.8 | 1380.8 | 1461.1 |
| 65° | 3224.3 | 2976.5 | 2912.3 | 2885.6 | 2906.1 | 2386.3 | 1701.4 | 1206.8 | 1001.1 | 895.8 | 942.6 |
| 67.5° | 3291.0 | 3026.1 | 2996.7 | 3031.6 | 2758.1 | 1987.4 | 1260.5 | 772.4 | 582.0 | 524.6 | 554.0 |
| 70° | 3360.0 | 3069.8 | 3068.8 | 2950.2 | 2338.8 | 1370.2 | 736.2 | 445.3 | 338.7 | 316.5 | 334.9 |
| 72.5° | 3336.8 | 3017.9 | 3033.3 | 2580.1 | 1620.7 | 732.4 | 388.6 | 251.9 | 229.3 | 237.2 | 253.6 |
| 75° | 3090.0 | 2743.8 | 2669.6 | 1854.8 | 919.4 | 340.4 | 223.9 | 190.7 | 189.3 | 201.3 | 217.4 |
| 77.5° | 2241.4 | 1910.9 | 1714.7 | 1051.3 | 394.1 | 184.2 | 164.7 | 159.3 | 159.3 | 168.8 | 183.2 |
| 80° | 738.9 | 639.5 | 666.5 | 406.7 | 186.3 | 127.1 | 128.5 | 130.9 | 130.2 | 132.6 | 144.6 |
| 82.5° | 121.3 | 125.8 | 194.5 | 166.1 | 112.4 | 86.8 | 97.1 | 101.8 | 103.2 | 92.3 | 104.9 |
| 85° | 43.1 | 48.5 | 82.7 | 76.9 | 64.9 | 43.7 | 63.9 | 71.4 | 70.4 | 61.5 | 68.0 |
| 87.5° | 13.3 | 17.1 | 30.1 | 23.2 | 19.5 | 12.0 | 23.9 | 28.0 | 35.2 | 14.4 | 13.0 |
| 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)