

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: P598415

Luminaire Tested: **PMM-SA3A-835-U-SL2-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-17)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3A-835-U-SL2-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7926 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

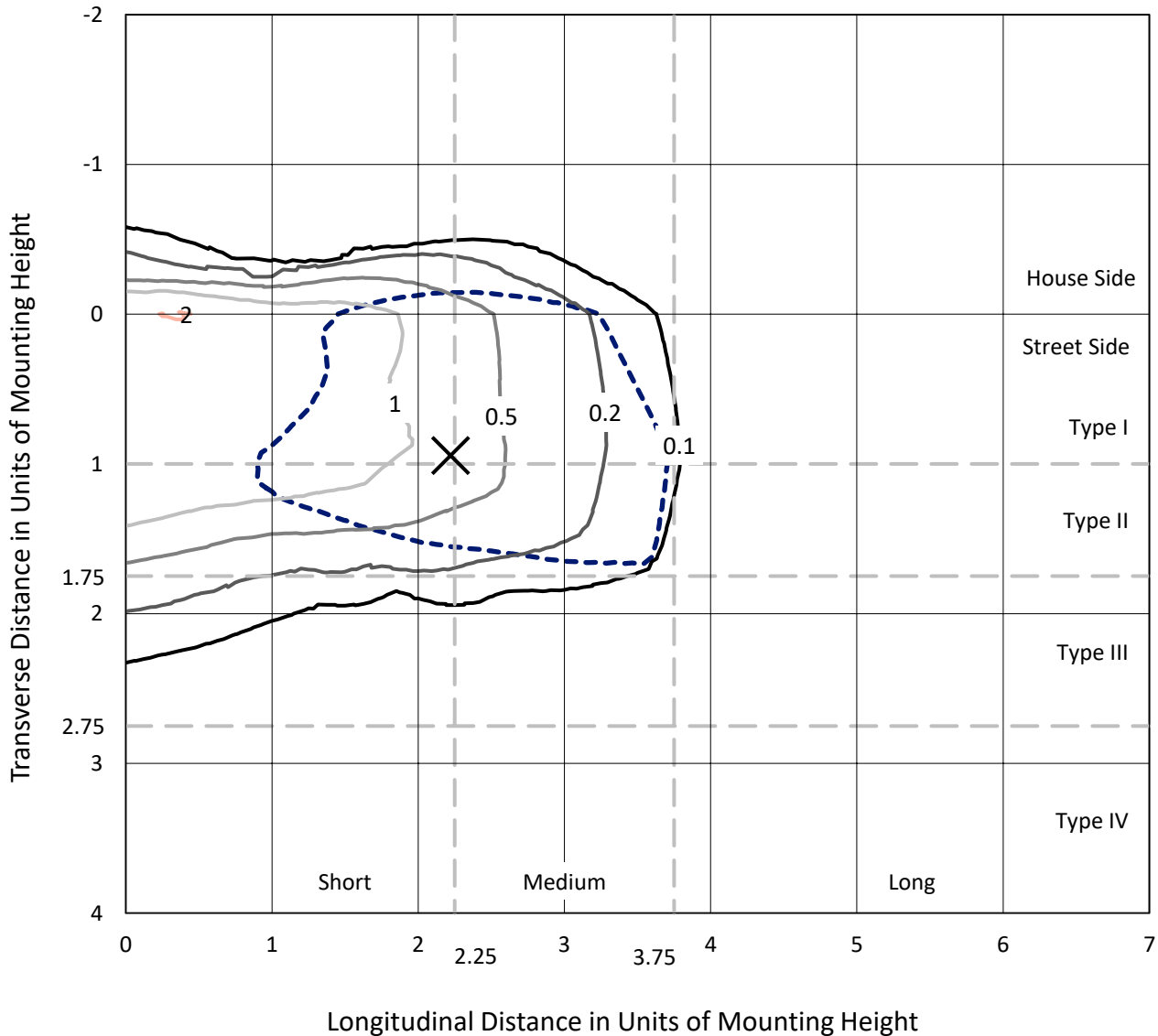
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P598415
 CATALOG NUMBER: PMM-SA3A-835-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

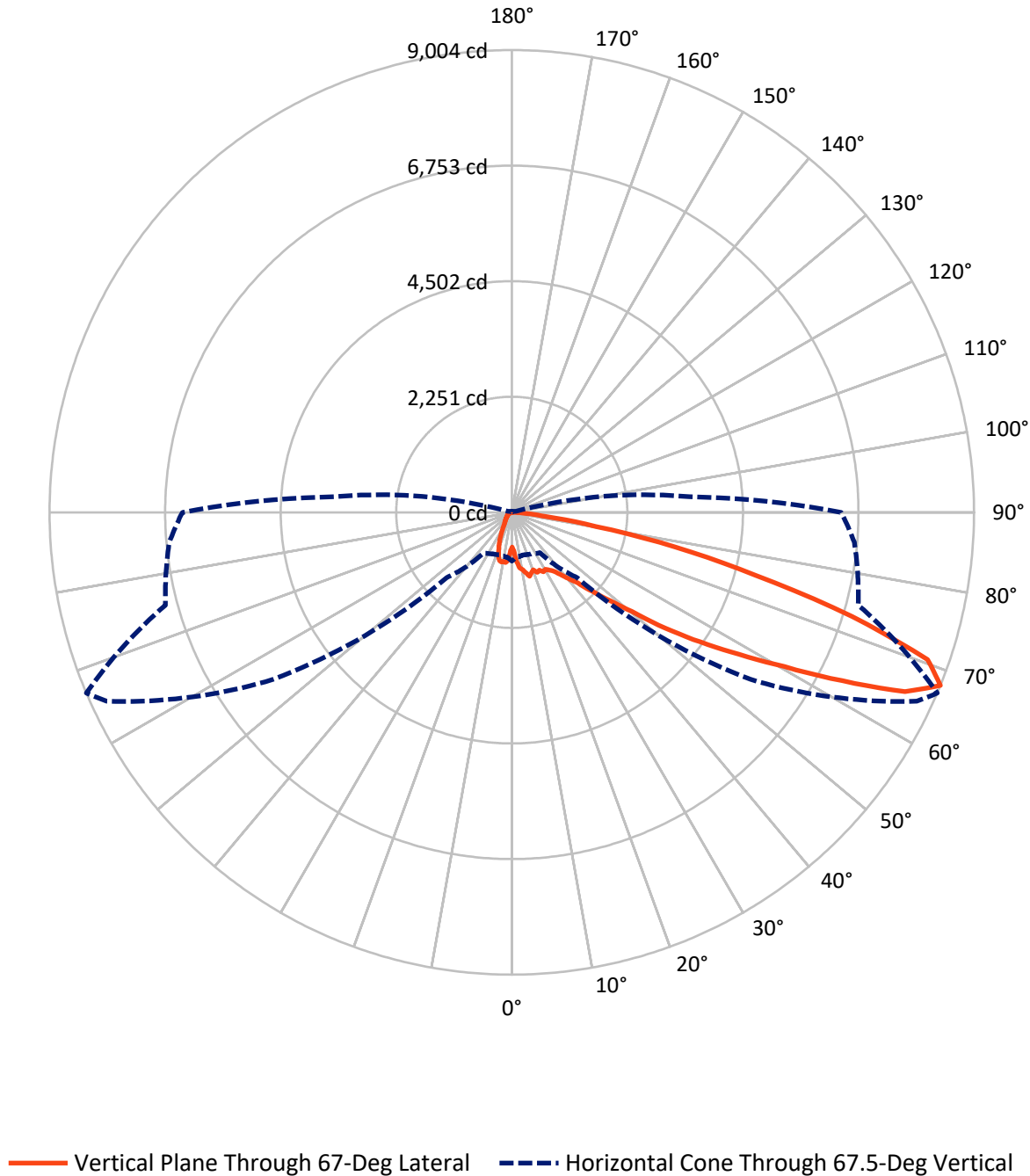
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P598415
CATALOG NUMBER: PMM-SA3A-835-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P598415

CATALOG NUMBER: PMM-SA3A-835-U-SL2-HSS

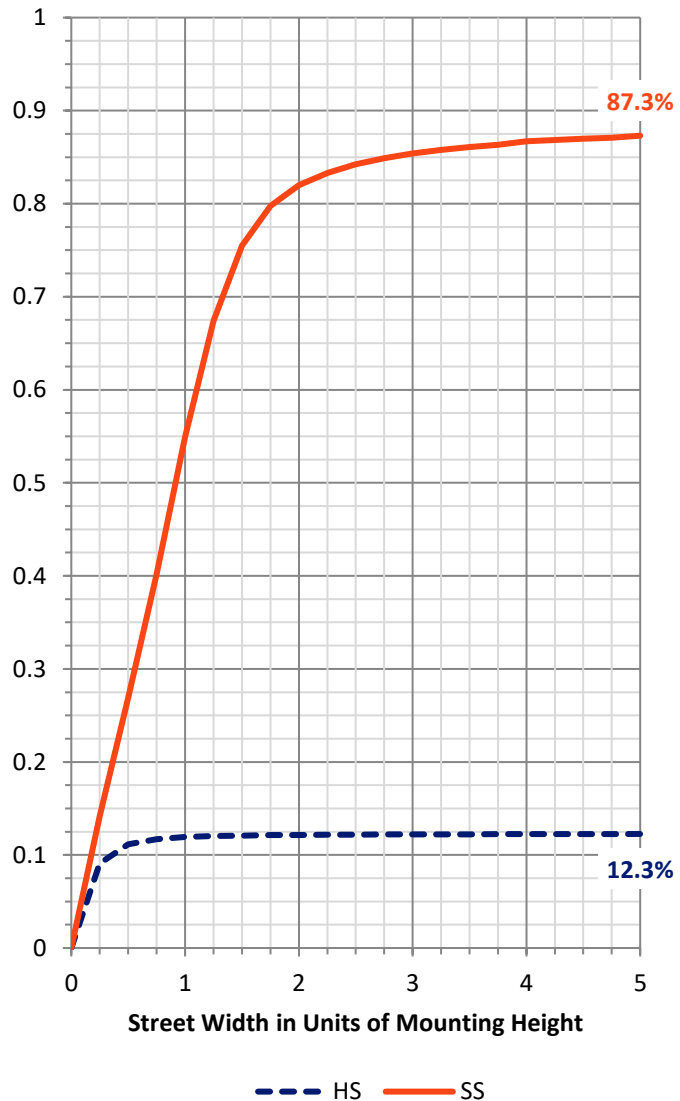
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 980.2 | 0.0 | 980.2 |
| | % Fixture | 12.4 | 0.0 | 12.4 |
| Street Side | Lumens | 6945.8 | 0.0 | 6945.8 |
| | % Fixture | 87.6 | 0.0 | 87.6 |
| Total | Lumens | 7926.0 | 0.0 | 7926.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 84.7 | 1.1 |
| 10°-20° | 250.7 | 3.2 |
| 20°-30° | 392.9 | 5.0 |
| 30°-40° | 633.6 | 8.0 |
| 40°-50° | 1164.2 | 14.7 |
| 50°-60° | 1966.2 | 24.8 |
| 60°-70° | 2173.7 | 27.4 |
| 70°-80° | 1137.7 | 14.4 |
| 80°-90° | 122.2 | 1.5 |
| 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° | 7926.0 | 100.0 |
| 0°-180° | 7926.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P598415

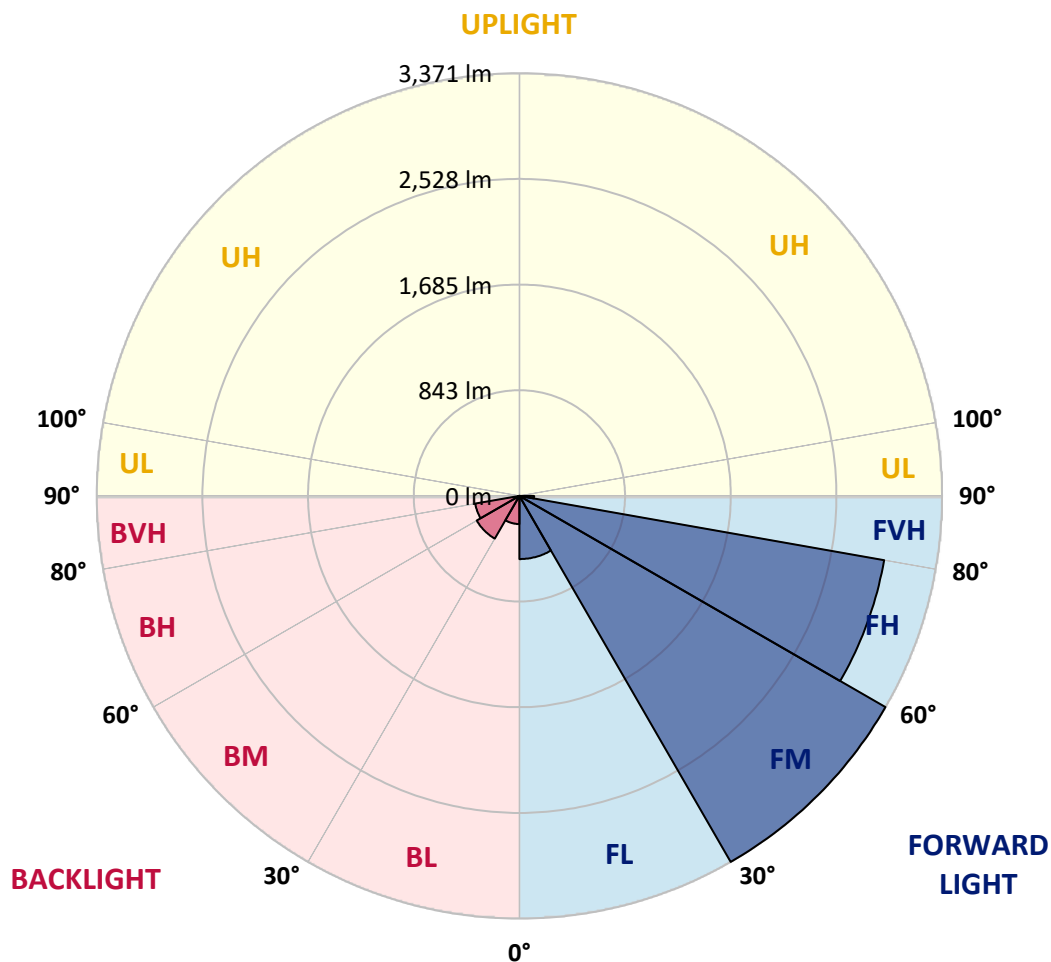
CATALOG NUMBER: PMM-SA3A-835-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 504.0 | 6.4 | | | |
| FM (30°-60°) | 3371.0 | 42.5 | | | |
| FH (60°-80°) | 2953.9 | 37.3 | | | G2/5000 |
| FVH (80°-90°) | 117.0 | 1.5 | | | G2/225 |
| BL (0°-30°) | 224.4 | 2.8 | B1/500 | | |
| BM (30°-60°) | 393.0 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 357.6 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.2 | 0.1 | | | 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 II Short





REPORT NUMBER: P598415

CATALOG NUMBER: PMM-SA3A-835-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 |
| 2.5° | 796.9 | 770.0 | 724.1 | 737.4 | 763.9 | 786.0 | 775.6 | 755.1 | 755.5 | 734.6 | 809.8 |
| 5° | 927.2 | 891.0 | 864.4 | 873.7 | 872.5 | 871.7 | 921.1 | 940.0 | 948.1 | 982.7 | 1033.7 |
| 7.5° | 964.6 | 951.7 | 924.0 | 932.4 | 904.7 | 906.7 | 993.5 | 1075.5 | 1088.4 | 1109.7 | 1200.6 |
| 10° | 950.1 | 925.2 | 935.2 | 935.2 | 935.6 | 980.6 | 1038.9 | 1117.3 | 1133.0 | 1215.1 | 1224.7 |
| 12.5° | 934.4 | 935.6 | 975.4 | 968.2 | 1022.9 | 1103.7 | 1123.4 | 1211.4 | 1203.8 | 1275.0 | 1380.7 |
| 15° | 992.7 | 1023.3 | 997.5 | 1007.6 | 1012.8 | 1107.7 | 1139.5 | 1256.5 | 1290.2 | 1380.3 | 1449.1 |
| 17.5° | 1092.8 | 1096.8 | 1043.4 | 1028.9 | 1066.7 | 1093.6 | 1157.6 | 1213.8 | 1236.4 | 1472.8 | 1570.1 |
| 20° | 1110.9 | 1136.6 | 1082.4 | 998.7 | 1078.7 | 1115.7 | 1160.4 | 1187.3 | 1197.0 | 1501.3 | 1638.4 |
| 22.5° | 1219.9 | 1191.3 | 1104.5 | 1041.0 | 1063.9 | 1104.1 | 1131.8 | 1213.0 | 1270.9 | 1447.4 | 1704.0 |
| 25° | 1275.8 | 1268.1 | 1185.3 | 1131.0 | 1107.7 | 1104.5 | 1168.0 | 1229.5 | 1248.0 | 1503.3 | 1720.0 |
| 27.5° | 1409.7 | 1392.4 | 1231.9 | 1225.1 | 1148.3 | 1080.8 | 1169.2 | 1279.8 | 1314.4 | 1450.7 | 1780.4 |
| 30° | 1591.8 | 1585.4 | 1371.9 | 1367.4 | 1245.2 | 1123.8 | 1234.3 | 1310.7 | 1289.8 | 1477.6 | 1820.6 |
| 32.5° | 1775.1 | 1827.4 | 1609.1 | 1484.4 | 1392.8 | 1281.8 | 1215.9 | 1301.1 | 1338.5 | 1543.1 | 1894.5 |
| 35° | 1996.7 | 2034.5 | 1812.1 | 1721.7 | 1517.8 | 1355.8 | 1338.5 | 1393.2 | 1409.2 | 1621.1 | 1978.6 |
| 37.5° | 2384.3 | 2327.2 | 2137.8 | 1983.8 | 1876.9 | 1619.9 | 1534.7 | 1491.3 | 1528.7 | 1726.9 | 2150.3 |
| 40° | 2670.5 | 2634.4 | 2401.2 | 2309.1 | 2063.0 | 1912.6 | 1689.9 | 1649.3 | 1691.1 | 1835.4 | 2269.7 |
| 42.5° | 3015.9 | 2940.7 | 2721.2 | 2658.9 | 2405.6 | 2115.7 | 1889.7 | 1903.8 | 1877.7 | 2049.7 | 2479.2 |
| 45° | 3328.3 | 3158.6 | 3036.4 | 3050.5 | 2915.4 | 2523.8 | 2223.0 | 2216.2 | 2194.5 | 2360.1 | 2699.5 |
| 47.5° | 3538.6 | 3390.2 | 3271.2 | 3232.2 | 3216.1 | 3241.5 | 2704.7 | 2583.3 | 2567.2 | 2686.2 | 3046.5 |
| 50° | 3651.6 | 3489.1 | 3342.0 | 3350.0 | 3676.5 | 3922.2 | 3201.7 | 3029.2 | 3035.2 | 3159.5 | 3520.9 |
| 52.5° | 3575.6 | 3391.8 | 3236.7 | 3387.4 | 4033.6 | 4376.1 | 4024.3 | 3611.8 | 3751.7 | 3719.9 | 4157.4 |
| 55° | 3224.6 | 3065.0 | 2954.8 | 3224.6 | 4072.6 | 4864.6 | 5037.1 | 4488.7 | 4457.3 | 4385.0 | 4806.3 |
| 57.5° | 2634.0 | 2496.4 | 2428.5 | 2713.2 | 3646.0 | 5258.3 | 6054.3 | 5479.8 | 5212.4 | 4909.3 | 5345.1 |
| 60° | 1962.5 | 1861.2 | 1790.4 | 1940.8 | 2872.8 | 4875.9 | 6720.6 | 6413.8 | 6104.2 | 5414.7 | 5829.2 |
| 62.5° | 1453.5 | 1371.1 | 1295.9 | 1309.5 | 1978.2 | 4193.6 | 6976.3 | 7403.3 | 7225.6 | 5948.2 | 6285.9 |
| 65° | 1160.0 | 1084.8 | 1032.1 | 1002.0 | 1225.1 | 3155.0 | 6620.5 | 8214.3 | 8419.3 | 6450.8 | 6615.6 |
| 67.5° | 947.3 | 883.7 | 857.6 | 892.2 | 960.9 | 1798.5 | 5670.0 | 8706.4 | 9003.9 | 6983.9 | 6696.9 |
| 70° | 770.8 | 718.5 | 715.7 | 809.0 | 885.0 | 1096.4 | 4170.7 | 8366.6 | 8590.6 | 7074.8 | 6209.9 |
| 72.5° | 537.2 | 514.2 | 550.8 | 683.1 | 876.9 | 913.1 | 2395.1 | 6923.6 | 6931.7 | 6248.5 | 5107.9 |
| 75° | 304.0 | 300.3 | 358.2 | 544.8 | 854.0 | 903.8 | 1335.3 | 4892.8 | 4896.4 | 4725.9 | 3538.6 |
| 77.5° | 167.3 | 156.4 | 208.7 | 368.3 | 733.4 | 882.9 | 861.2 | 3340.8 | 3255.1 | 2629.9 | 1616.3 |
| 80° | 77.2 | 72.8 | 113.0 | 236.0 | 536.4 | 835.1 | 690.4 | 1836.2 | 1655.7 | 856.8 | 394.4 |
| 82.5° | 31.8 | 30.2 | 51.9 | 151.6 | 338.9 | 672.7 | 581.8 | 814.6 | 653.8 | 162.8 | 121.8 |
| 85° | 5.6 | 6.0 | 21.3 | 91.7 | 189.8 | 310.0 | 471.6 | 386.8 | 284.3 | 45.0 | 66.7 |
| 87.5° | 0.0 | 0.0 | 4.4 | 22.1 | 45.8 | 84.8 | 191.4 | 108.2 | 74.4 | 13.3 | 19.7 |
| 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: P598415

CATALOG NUMBER: PMM-SA3A-835-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 | 675.1 |
| 2.5° | 824.6 | 817.8 | 748.7 | 751.9 | 756.7 | 752.3 | 751.5 | 732.2 | 714.5 | 772.8 | 772.0 |
| 5° | 1043.0 | 994.3 | 946.5 | 928.0 | 888.2 | 835.9 | 836.3 | 819.8 | 802.9 | 826.7 | 826.7 |
| 7.5° | 1198.6 | 1131.4 | 1070.7 | 962.6 | 857.2 | 761.9 | 753.5 | 731.0 | 705.2 | 736.2 | 742.2 |
| 10° | 1234.8 | 1176.5 | 1098.0 | 939.2 | 839.5 | 746.6 | 644.5 | 560.5 | 521.5 | 503.4 | 500.2 |
| 12.5° | 1346.1 | 1302.7 | 1127.4 | 951.7 | 808.2 | 650.9 | 483.7 | 384.0 | 316.0 | 310.8 | 303.6 |
| 15° | 1420.5 | 1390.0 | 1156.3 | 920.7 | 675.5 | 468.0 | 304.0 | 233.2 | 205.9 | 203.4 | 199.8 |
| 17.5° | 1535.9 | 1482.8 | 1128.6 | 822.2 | 528.3 | 308.8 | 204.3 | 184.1 | 187.4 | 194.6 | 189.0 |
| 20° | 1582.9 | 1479.2 | 1068.3 | 679.5 | 371.1 | 207.1 | 177.3 | 166.5 | 174.9 | 181.7 | 178.5 |
| 22.5° | 1631.2 | 1489.7 | 1014.8 | 560.1 | 242.4 | 171.3 | 158.0 | 152.4 | 153.2 | 160.0 | 160.4 |
| 25° | 1630.8 | 1518.6 | 952.9 | 436.2 | 180.5 | 152.4 | 142.7 | 135.5 | 132.7 | 137.5 | 136.3 |
| 27.5° | 1710.0 | 1485.2 | 839.9 | 323.7 | 158.8 | 136.3 | 127.1 | 118.2 | 108.2 | 113.0 | 113.0 |
| 30° | 1710.4 | 1539.5 | 761.1 | 232.4 | 145.5 | 121.4 | 113.4 | 99.7 | 88.1 | 92.1 | 92.5 |
| 32.5° | 1755.8 | 1492.5 | 688.3 | 177.7 | 135.1 | 112.6 | 94.9 | 82.4 | 75.6 | 78.0 | 78.0 |
| 35° | 1807.7 | 1532.7 | 576.6 | 156.8 | 124.6 | 100.1 | 81.2 | 71.2 | 65.9 | 67.9 | 67.9 |
| 37.5° | 1979.0 | 1524.2 | 499.0 | 146.0 | 117.8 | 90.5 | 74.0 | 62.7 | 60.3 | 61.5 | 63.1 |
| 40° | 2040.9 | 1584.1 | 393.6 | 139.5 | 106.5 | 81.6 | 65.1 | 56.7 | 53.5 | 54.3 | 54.7 |
| 42.5° | 2198.5 | 1597.4 | 314.4 | 134.3 | 96.5 | 70.8 | 57.9 | 51.9 | 47.8 | 47.8 | 49.1 |
| 45° | 2372.6 | 1630.8 | 250.1 | 129.9 | 88.1 | 63.5 | 52.3 | 47.4 | 41.4 | 40.6 | 42.2 |
| 47.5° | 2624.7 | 1758.6 | 203.8 | 121.0 | 78.0 | 59.1 | 48.2 | 41.0 | 36.2 | 34.6 | 36.2 |
| 50° | 3046.5 | 1975.8 | 180.1 | 110.2 | 70.8 | 55.5 | 42.6 | 35.0 | 31.4 | 29.4 | 30.6 |
| 52.5° | 3641.5 | 2350.9 | 167.7 | 100.1 | 64.3 | 49.9 | 38.2 | 30.6 | 26.9 | 25.3 | 26.1 |
| 55° | 4302.5 | 2781.1 | 161.6 | 90.1 | 58.7 | 43.8 | 33.4 | 26.9 | 23.7 | 21.7 | 22.1 |
| 57.5° | 4913.7 | 3185.6 | 155.6 | 80.4 | 53.1 | 39.0 | 29.4 | 23.7 | 20.5 | 18.5 | 18.9 |
| 60° | 5516.0 | 3508.4 | 141.1 | 69.2 | 47.8 | 35.0 | 25.7 | 20.5 | 18.5 | 16.1 | 16.1 |
| 62.5° | 6048.7 | 3701.4 | 120.2 | 59.9 | 43.0 | 31.0 | 22.9 | 18.5 | 16.9 | 14.5 | 14.5 |
| 65° | 6411.4 | 3710.3 | 96.9 | 51.5 | 37.8 | 26.5 | 20.1 | 17.3 | 15.7 | 12.9 | 12.5 |
| 67.5° | 6416.6 | 3469.0 | 77.6 | 45.8 | 33.4 | 23.3 | 18.1 | 16.5 | 14.5 | 12.1 | 11.3 |
| 70° | 5743.1 | 2865.9 | 64.7 | 40.2 | 28.9 | 20.5 | 15.7 | 15.7 | 14.1 | 11.7 | 10.5 |
| 72.5° | 4594.0 | 2190.1 | 54.3 | 35.0 | 25.7 | 17.7 | 14.5 | 14.9 | 13.7 | 11.7 | 10.5 |
| 75° | 3087.9 | 1256.1 | 45.0 | 29.8 | 22.5 | 14.9 | 14.1 | 14.5 | 14.1 | 11.7 | 10.1 |
| 77.5° | 1422.1 | 400.1 | 35.0 | 24.5 | 19.3 | 12.5 | 13.7 | 13.7 | 12.9 | 10.5 | 8.8 |
| 80° | 320.4 | 98.5 | 25.3 | 18.1 | 15.7 | 9.2 | 12.5 | 11.3 | 10.1 | 7.2 | 5.2 |
| 82.5° | 116.6 | 30.2 | 15.3 | 11.3 | 9.6 | 3.6 | 8.0 | 8.0 | 7.2 | 5.2 | 3.2 |
| 85° | 66.7 | 15.7 | 8.4 | 7.2 | 5.2 | 1.6 | 4.4 | 4.8 | 4.0 | 3.6 | 1.6 |
| 87.5° | 21.7 | 3.6 | 4.0 | 4.4 | 4.0 | 0.8 | 1.6 | 1.6 | 1.2 | 0.8 | 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)