

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: P598557

Luminaire Tested: **PMM-SA4C-835-U-T2-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4C-835-U-T2-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14961 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 225
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

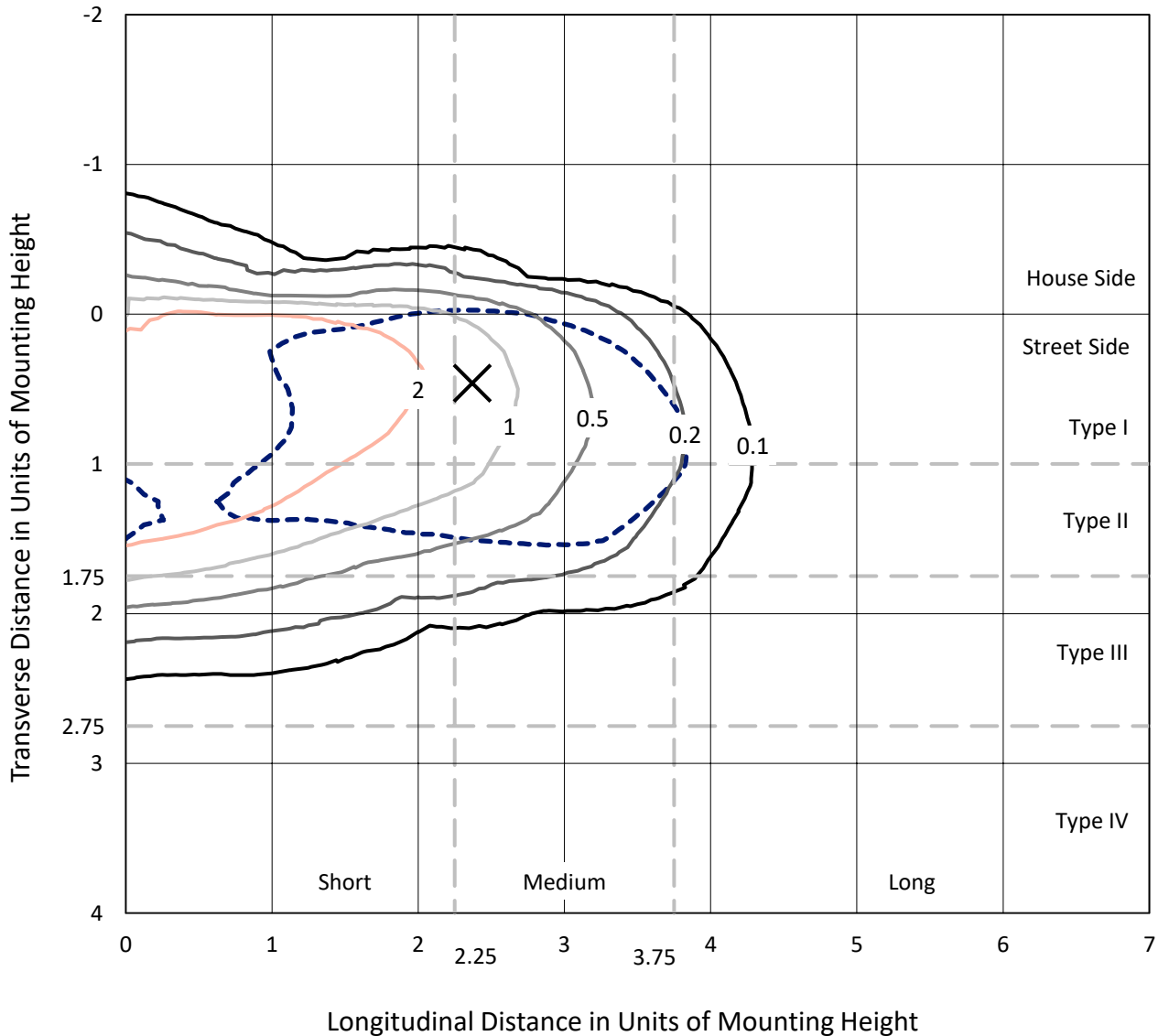


REPORT NUMBER: P598557

CATALOG NUMBER: PMM-SA4C-835-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

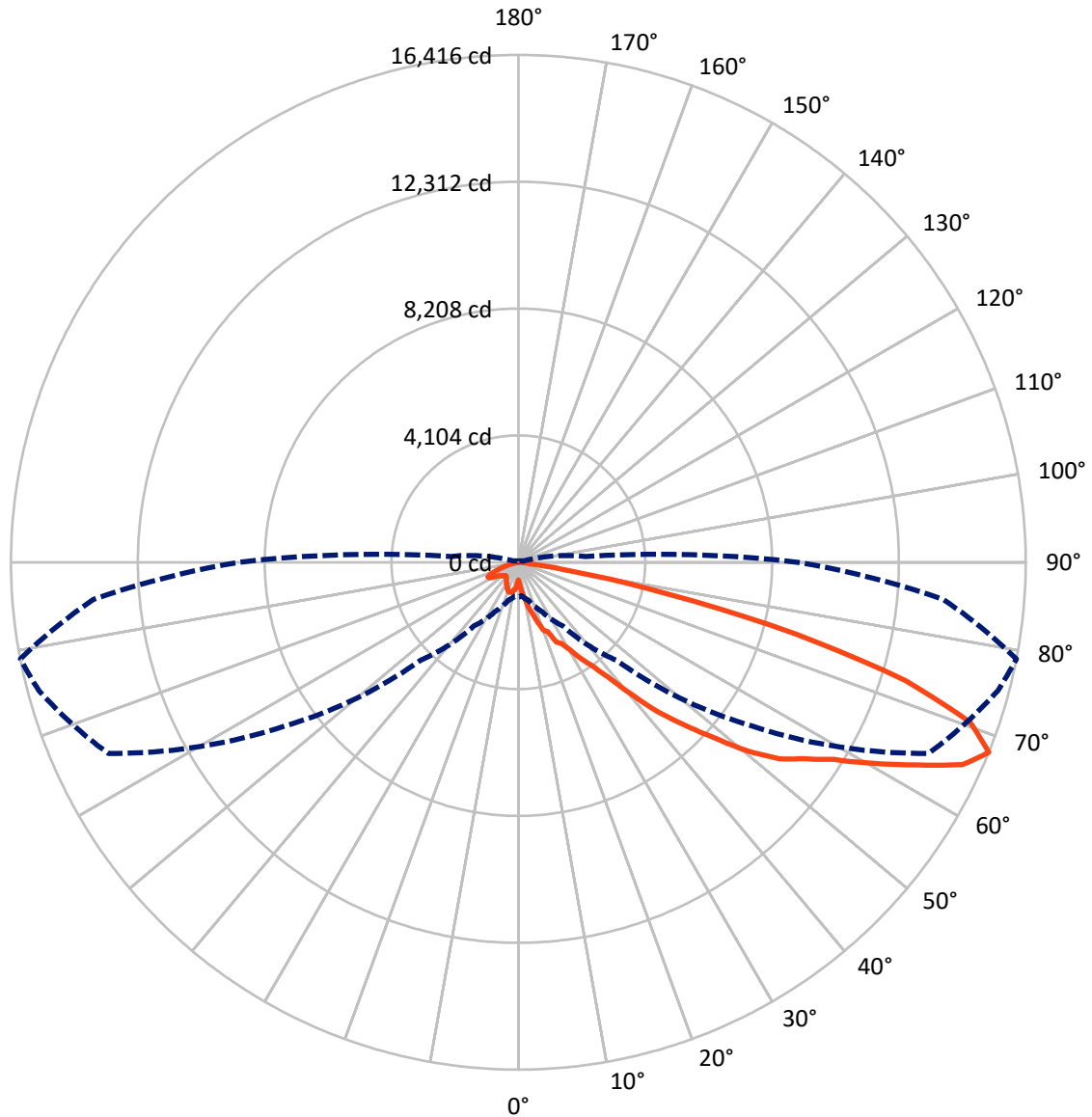
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P598557
CATALOG NUMBER: PMM-SA4C-835-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P598557

CATALOG NUMBER: PMM-SA4C-835-U-T2-HSS

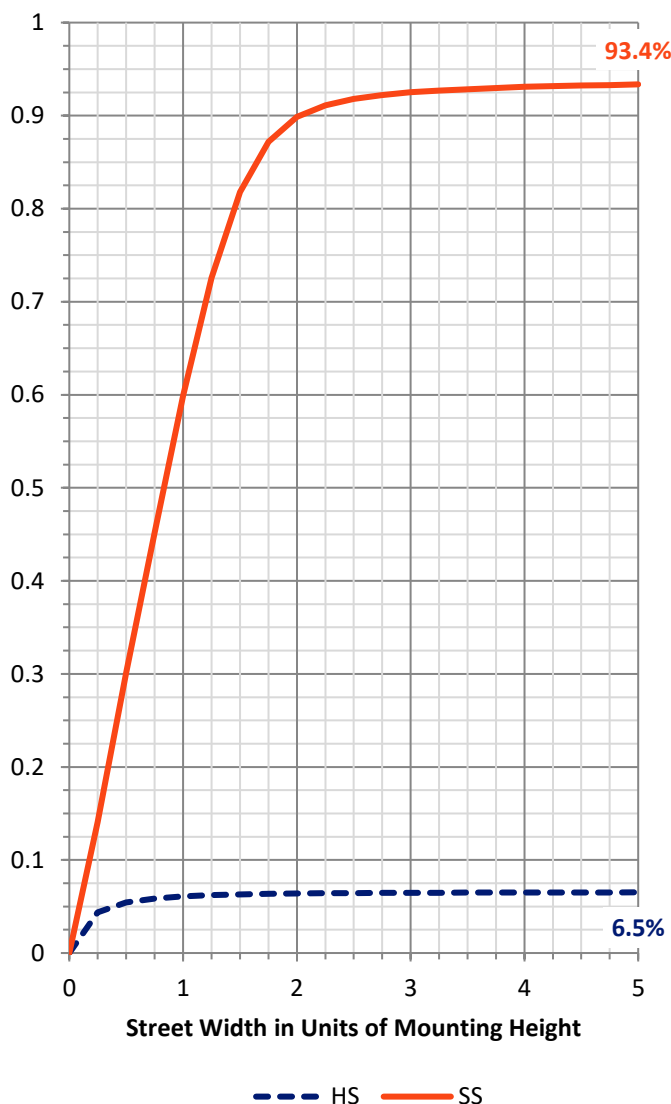
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 983.0 | 0.0 | 983.0 |
| | % Fixture | 6.6 | 0.0 | 6.6 |
| Street Side | Lumens | 13978.0 | 0.0 | 13978.0 |
| | % Fixture | 93.4 | 0.0 | 93.4 |
| Total | Lumens | 14961.0 | 0.0 | 14961.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 83.8 | 0.6 |
| 10°-20° | 334.3 | 2.2 |
| 20°-30° | 644.9 | 4.3 |
| 30°-40° | 1266.9 | 8.5 |
| 40°-50° | 2537.9 | 17.0 |
| 50°-60° | 4056.5 | 27.1 |
| 60°-70° | 4081.5 | 27.3 |
| 70°-80° | 1841.3 | 12.3 |
| 80°-90° | 113.9 | 0.8 |
| 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° | 14961.0 | 100.0 |
| 0°-180° | 14961.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P598557

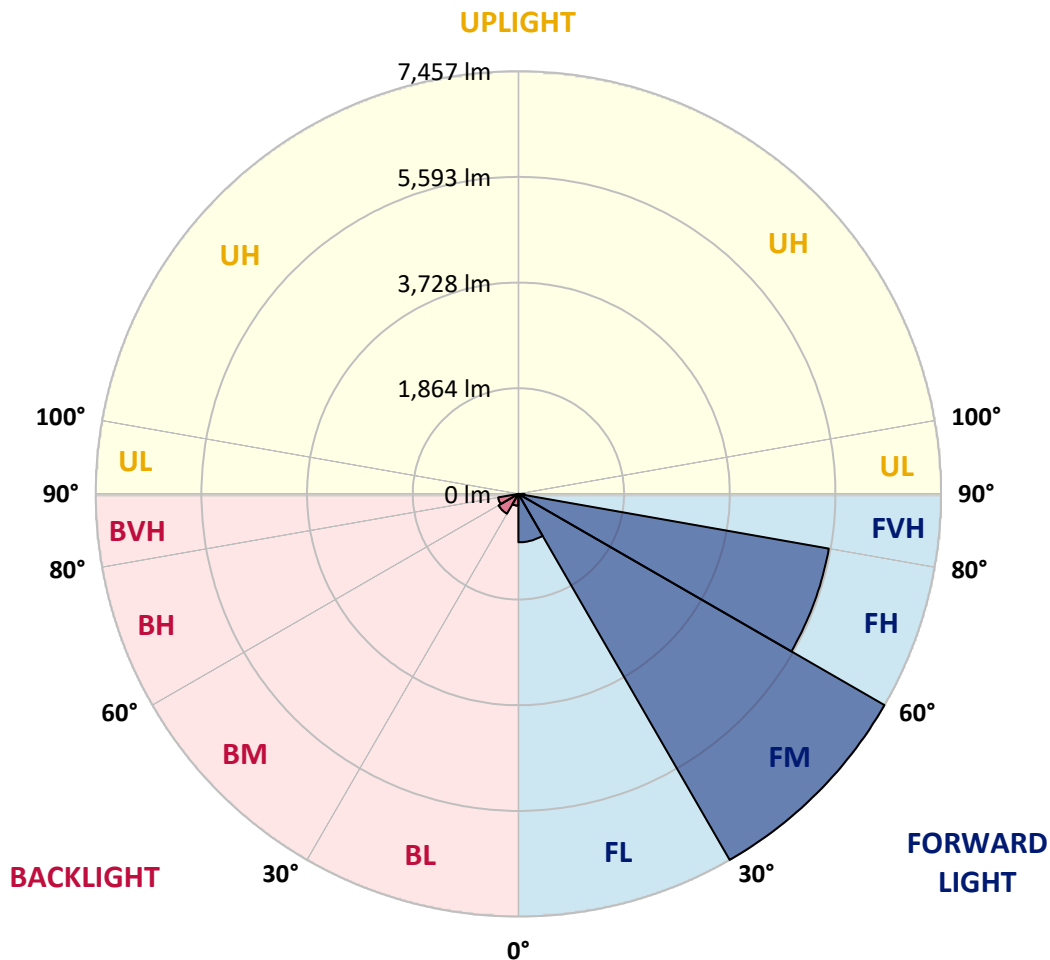
CATALOG NUMBER: PMM-SA4C-835-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 854.1 | 5.7 | | | |
| FM (30°-60°) | 7456.8 | 49.8 | | | |
| FH (60°-80°) | 5560.4 | 37.2 | | | G3/7500 |
| FVH (80°-90°) | 106.7 | 0.7 | | | G2/225 |
| BL (0°-30°) | 209.0 | 1.4 | B1/500 | | |
| BM (30°-60°) | 404.4 | 2.7 | B1/1000 | | |
| BH (60°-80°) | 362.4 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.3 | 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-G3

Type II Medium





REPORT NUMBER: P598557

CATALOG NUMBER: PMM-SA4C-835-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 |
| 2.5° | 778.5 | 750.5 | 705.1 | 730.7 | 729.1 | 742.3 | 717.5 | 690.3 | 646.6 | 690.3 | 693.6 |
| 5° | 1120.8 | 1068.9 | 1035.9 | 1029.3 | 993.0 | 959.2 | 951.7 | 923.7 | 902.3 | 863.5 | 898.1 |
| 7.5° | 1396.3 | 1372.4 | 1313.8 | 1307.2 | 1218.1 | 1168.6 | 1184.3 | 1171.9 | 1090.3 | 1049.9 | 1083.7 |
| 10° | 1513.4 | 1472.1 | 1480.4 | 1472.1 | 1434.2 | 1448.2 | 1416.1 | 1378.9 | 1313.8 | 1247.0 | 1162.9 |
| 12.5° | 1558.7 | 1552.1 | 1620.6 | 1612.3 | 1701.4 | 1808.6 | 1736.9 | 1675.0 | 1524.1 | 1507.6 | 1393.0 |
| 15° | 1656.1 | 1697.3 | 1687.4 | 1722.0 | 1778.9 | 1961.2 | 1959.6 | 1974.4 | 1814.4 | 1728.6 | 1562.9 |
| 17.5° | 1742.7 | 1773.2 | 1723.7 | 1763.3 | 1918.3 | 2028.8 | 2176.5 | 2118.7 | 2136.9 | 2049.5 | 1793.0 |
| 20° | 1705.5 | 1740.2 | 1690.7 | 1666.8 | 1939.8 | 2149.2 | 2346.4 | 2304.3 | 2413.2 | 2358.7 | 2004.9 |
| 22.5° | 1937.3 | 1872.1 | 1747.6 | 1670.1 | 1873.8 | 2146.8 | 2406.6 | 2582.2 | 2563.3 | 2429.7 | 2202.0 |
| 25° | 2223.5 | 2183.9 | 2034.6 | 1897.7 | 1915.8 | 2131.9 | 2596.3 | 2854.4 | 2910.5 | 2853.6 | 2389.2 |
| 27.5° | 2609.4 | 2600.4 | 2295.2 | 2235.8 | 2059.4 | 2066.8 | 2625.9 | 3197.5 | 3069.6 | 2980.6 | 2607.8 |
| 30° | 3113.4 | 3041.6 | 2679.5 | 2602.0 | 2341.4 | 2213.6 | 2807.4 | 3493.6 | 3399.5 | 3278.3 | 2813.2 |
| 32.5° | 3655.2 | 3665.9 | 3204.1 | 2948.4 | 2738.9 | 2587.2 | 2735.6 | 3632.1 | 3807.8 | 3709.6 | 3069.6 |
| 35° | 4270.5 | 4318.3 | 3753.3 | 3453.1 | 3045.7 | 2822.2 | 3044.1 | 4057.7 | 4372.7 | 4114.6 | 3413.6 |
| 37.5° | 5218.1 | 5216.4 | 4556.6 | 3958.7 | 3662.6 | 3420.2 | 3557.9 | 4444.5 | 5067.1 | 4704.3 | 4030.5 |
| 40° | 6051.9 | 5870.4 | 5256.8 | 4569.8 | 4108.0 | 4042.0 | 3942.2 | 4973.9 | 5808.6 | 5590.0 | 4578.9 |
| 42.5° | 6674.5 | 6546.7 | 5805.3 | 5270.8 | 4698.5 | 4489.0 | 4453.5 | 5750.0 | 6903.0 | 6597.0 | 5361.6 |
| 45° | 7419.3 | 7000.3 | 6454.3 | 5972.7 | 5389.6 | 5328.6 | 5245.3 | 6537.6 | 8176.4 | 7486.9 | 6042.0 |
| 47.5° | 8086.5 | 7692.3 | 7176.0 | 6557.4 | 5887.7 | 6390.8 | 6070.8 | 7229.6 | 9102.5 | 8455.1 | 6792.5 |
| 50° | 8648.1 | 8229.2 | 7651.0 | 7180.1 | 6893.1 | 7234.5 | 6700.9 | 7799.5 | 10102.9 | 9578.4 | 7494.3 |
| 52.5° | 8934.3 | 8460.1 | 8013.1 | 7721.9 | 7897.6 | 7820.9 | 7555.4 | 8489.8 | 10955.7 | 10563.1 | 8116.2 |
| 55° | 8699.3 | 8235.8 | 8048.5 | 8192.9 | 8726.5 | 8504.6 | 8526.1 | 9559.4 | 11760.6 | 11219.6 | 8657.2 |
| 57.5° | 7656.8 | 7233.7 | 7317.0 | 7712.1 | 8734.7 | 9315.3 | 9632.8 | 10598.6 | 12406.4 | 12037.8 | 9491.8 |
| 60° | 5792.1 | 5451.5 | 5759.9 | 6460.9 | 7913.3 | 9153.7 | 10418.0 | 11637.8 | 13329.3 | 13213.8 | 10755.3 |
| 62.5° | 3537.3 | 3352.5 | 3789.6 | 4663.8 | 6305.9 | 8361.1 | 10875.7 | 13023.3 | 14316.5 | 14439.4 | 12095.5 |
| 65° | 1804.5 | 1721.2 | 2085.7 | 2854.4 | 4260.6 | 6868.4 | 10545.0 | 13884.3 | 15336.7 | 15790.3 | 13373.0 |
| 67.5° | 1136.5 | 1082.9 | 1277.5 | 1741.0 | 2513.8 | 4479.9 | 9232.9 | 14637.3 | 16057.5 | 16416.3 | 13799.4 |
| 70° | 787.6 | 753.8 | 922.0 | 1195.0 | 1586.0 | 2413.2 | 6855.2 | 13934.6 | 15486.0 | 15502.5 | 12767.6 |
| 72.5° | 499.8 | 473.4 | 637.5 | 884.9 | 1170.3 | 1246.2 | 3929.8 | 10934.3 | 13255.9 | 13103.3 | 10339.6 |
| 75° | 324.1 | 310.9 | 404.9 | 648.2 | 899.0 | 768.6 | 1942.2 | 7378.0 | 9505.0 | 9265.8 | 6867.5 |
| 77.5° | 232.6 | 224.3 | 271.3 | 433.0 | 640.0 | 537.7 | 870.9 | 4397.5 | 5449.8 | 4926.9 | 3333.6 |
| 80° | 140.2 | 139.4 | 196.3 | 271.3 | 455.3 | 379.4 | 402.5 | 1996.7 | 2113.0 | 1722.9 | 1018.5 |
| 82.5° | 70.1 | 72.6 | 109.7 | 174.8 | 292.8 | 248.2 | 183.9 | 664.7 | 567.4 | 418.1 | 206.2 |
| 85° | 16.5 | 20.6 | 57.7 | 120.4 | 146.8 | 99.0 | 87.4 | 174.0 | 155.9 | 117.9 | 60.2 |
| 87.5° | 0.0 | 0.0 | 18.1 | 28.9 | 39.6 | 16.5 | 29.7 | 33.0 | 42.1 | 33.0 | 12.4 |
| 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: P598557
 CATALOG NUMBER: PMM-SA4C-835-U-T2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 | 576.5 |
| 2.5° | 694.4 | 684.5 | 624.3 | 608.7 | 607.0 | 589.7 | 593.8 | 577.3 | 578.1 | 615.2 | 615.2 |
| 5° | 884.9 | 827.2 | 769.5 | 718.3 | 683.7 | 634.2 | 616.1 | 608.7 | 602.1 | 616.9 | 626.0 |
| 7.5° | 1039.2 | 954.2 | 850.3 | 739.0 | 635.9 | 564.9 | 555.0 | 536.9 | 530.3 | 545.1 | 556.7 |
| 10° | 1107.6 | 1002.0 | 859.4 | 696.9 | 600.4 | 542.7 | 494.8 | 469.3 | 464.3 | 463.5 | 467.6 |
| 12.5° | 1252.8 | 1121.6 | 869.3 | 681.2 | 576.5 | 513.0 | 458.5 | 415.7 | 376.1 | 380.2 | 376.1 |
| 15° | 1369.1 | 1214.0 | 869.3 | 643.3 | 518.8 | 455.3 | 359.6 | 338.1 | 332.4 | 341.4 | 334.0 |
| 17.5° | 1544.7 | 1305.5 | 825.6 | 575.7 | 469.3 | 353.8 | 317.5 | 315.9 | 327.4 | 340.6 | 332.4 |
| 20° | 1650.3 | 1317.9 | 752.2 | 498.1 | 385.1 | 306.8 | 293.6 | 280.4 | 296.9 | 307.6 | 303.5 |
| 22.5° | 1760.0 | 1318.7 | 678.8 | 456.9 | 310.1 | 279.6 | 258.1 | 247.4 | 249.9 | 259.8 | 261.4 |
| 25° | 1807.0 | 1286.6 | 610.3 | 402.5 | 281.2 | 249.9 | 227.6 | 216.1 | 212.0 | 216.9 | 215.3 |
| 27.5° | 1934.8 | 1224.7 | 536.1 | 343.1 | 267.2 | 221.9 | 201.2 | 187.2 | 174.8 | 183.1 | 184.7 |
| 30° | 1953.0 | 1204.9 | 495.7 | 305.2 | 249.1 | 196.3 | 178.1 | 163.3 | 154.2 | 165.8 | 165.8 |
| 32.5° | 2010.7 | 1096.1 | 475.0 | 289.5 | 230.1 | 181.4 | 156.7 | 146.0 | 144.3 | 151.8 | 152.6 |
| 35° | 2099.8 | 1048.2 | 444.5 | 277.1 | 212.8 | 164.1 | 141.0 | 136.1 | 134.4 | 140.2 | 140.2 |
| 37.5° | 2401.6 | 988.9 | 410.7 | 266.4 | 197.9 | 155.0 | 136.9 | 128.7 | 129.5 | 134.4 | 137.7 |
| 40° | 2602.0 | 996.3 | 360.4 | 253.2 | 180.6 | 146.8 | 128.7 | 122.9 | 122.1 | 124.5 | 127.0 |
| 42.5° | 2974.0 | 1002.0 | 338.1 | 239.2 | 167.4 | 136.9 | 120.4 | 116.3 | 113.0 | 115.5 | 117.9 |
| 45° | 3389.6 | 1032.6 | 326.6 | 227.6 | 160.0 | 131.1 | 113.0 | 110.5 | 103.1 | 104.7 | 108.0 |
| 47.5° | 3790.5 | 1143.9 | 312.6 | 211.1 | 153.4 | 127.8 | 105.6 | 99.8 | 94.8 | 94.0 | 97.3 |
| 50° | 4245.7 | 1251.9 | 296.9 | 193.0 | 146.8 | 122.9 | 98.1 | 89.1 | 85.8 | 85.8 | 88.2 |
| 52.5° | 4653.1 | 1355.0 | 282.1 | 180.6 | 141.9 | 113.8 | 91.5 | 82.5 | 80.0 | 80.0 | 83.3 |
| 55° | 5082.0 | 1463.1 | 268.9 | 169.1 | 135.3 | 104.7 | 85.8 | 77.5 | 76.7 | 75.1 | 77.5 |
| 57.5° | 5839.1 | 1698.9 | 252.4 | 159.2 | 126.2 | 97.3 | 80.8 | 72.6 | 70.9 | 68.5 | 70.9 |
| 60° | 6941.8 | 2061.0 | 230.9 | 149.3 | 115.5 | 92.4 | 76.7 | 66.8 | 64.3 | 60.2 | 61.0 |
| 62.5° | 8019.7 | 2353.8 | 206.2 | 136.9 | 105.6 | 87.4 | 70.1 | 60.2 | 56.1 | 51.1 | 52.0 |
| 65° | 8943.4 | 2469.2 | 179.8 | 122.1 | 95.7 | 75.9 | 61.0 | 52.8 | 47.0 | 40.4 | 39.6 |
| 67.5° | 9052.2 | 2180.6 | 154.2 | 108.0 | 85.8 | 64.3 | 52.0 | 47.0 | 37.9 | 32.2 | 30.5 |
| 70° | 8146.7 | 1624.7 | 128.7 | 95.7 | 74.2 | 54.4 | 44.5 | 41.2 | 35.5 | 30.5 | 28.0 |
| 72.5° | 6487.3 | 1199.2 | 108.0 | 84.9 | 65.2 | 46.2 | 37.9 | 38.8 | 35.5 | 29.7 | 26.4 |
| 75° | 4290.2 | 686.2 | 88.2 | 70.9 | 54.4 | 37.1 | 34.6 | 34.6 | 33.8 | 28.0 | 24.7 |
| 77.5° | 2064.3 | 296.1 | 67.6 | 56.1 | 43.7 | 28.0 | 31.3 | 31.3 | 32.2 | 25.6 | 20.6 |
| 80° | 585.6 | 89.1 | 42.1 | 37.9 | 32.2 | 19.0 | 24.7 | 23.9 | 21.4 | 14.8 | 9.1 |
| 82.5° | 104.7 | 34.6 | 19.0 | 19.8 | 18.1 | 7.4 | 14.0 | 13.2 | 10.7 | 5.8 | 0.8 |
| 85° | 28.9 | 13.2 | 10.7 | 11.5 | 9.1 | 2.5 | 5.8 | 7.4 | 5.8 | 3.3 | 0.0 |
| 87.5° | 7.4 | 5.8 | 7.4 | 8.2 | 6.6 | 0.8 | 2.5 | 0.8 | 2.5 | 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)