

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: P367317

Luminaire Tested: **PMM-SA2B-740-U-T2-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-9)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2B-740-U-T2-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) 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: 7513 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

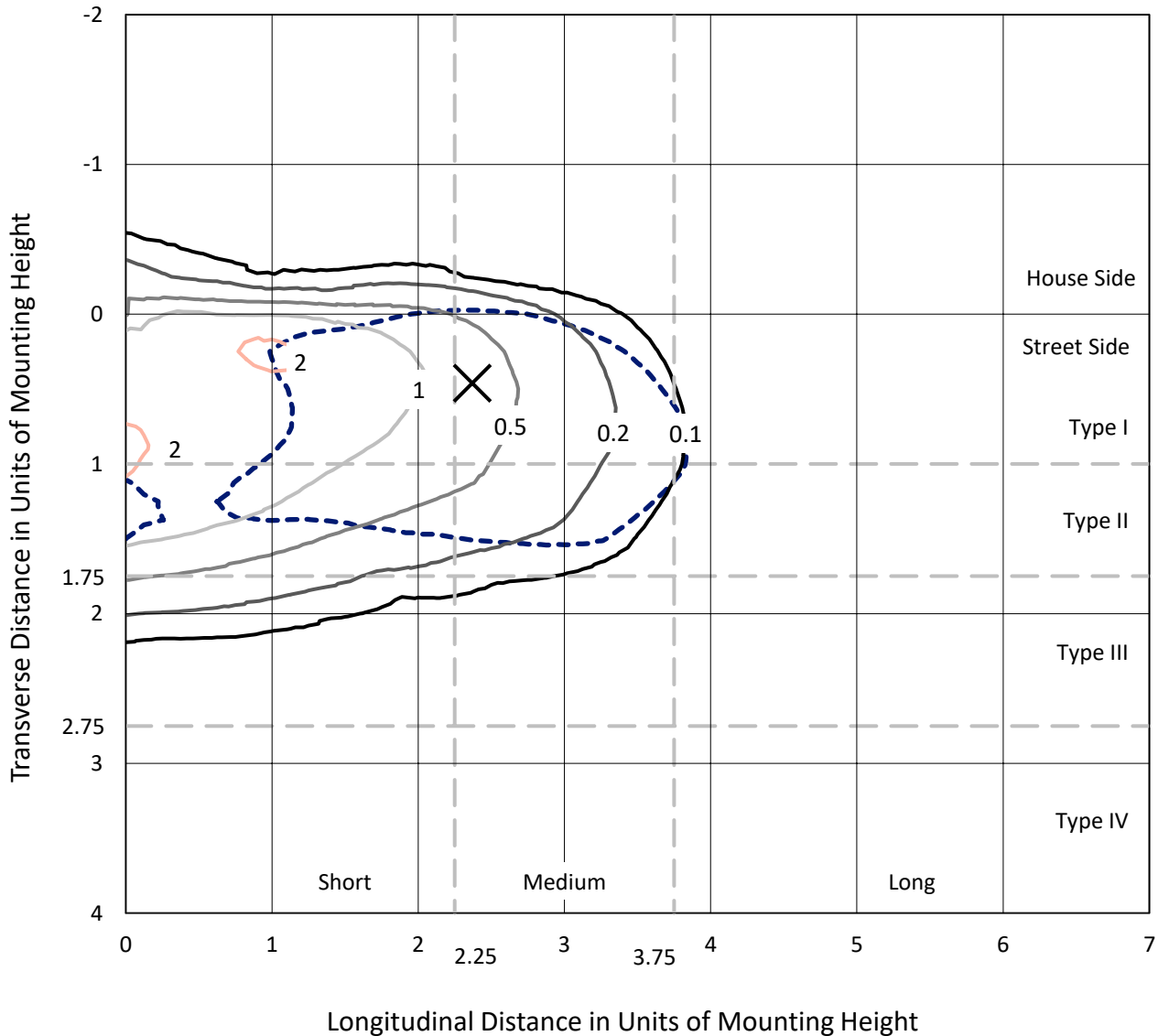


REPORT NUMBER: P367317

CATALOG NUMBER: PMM-SA2B-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

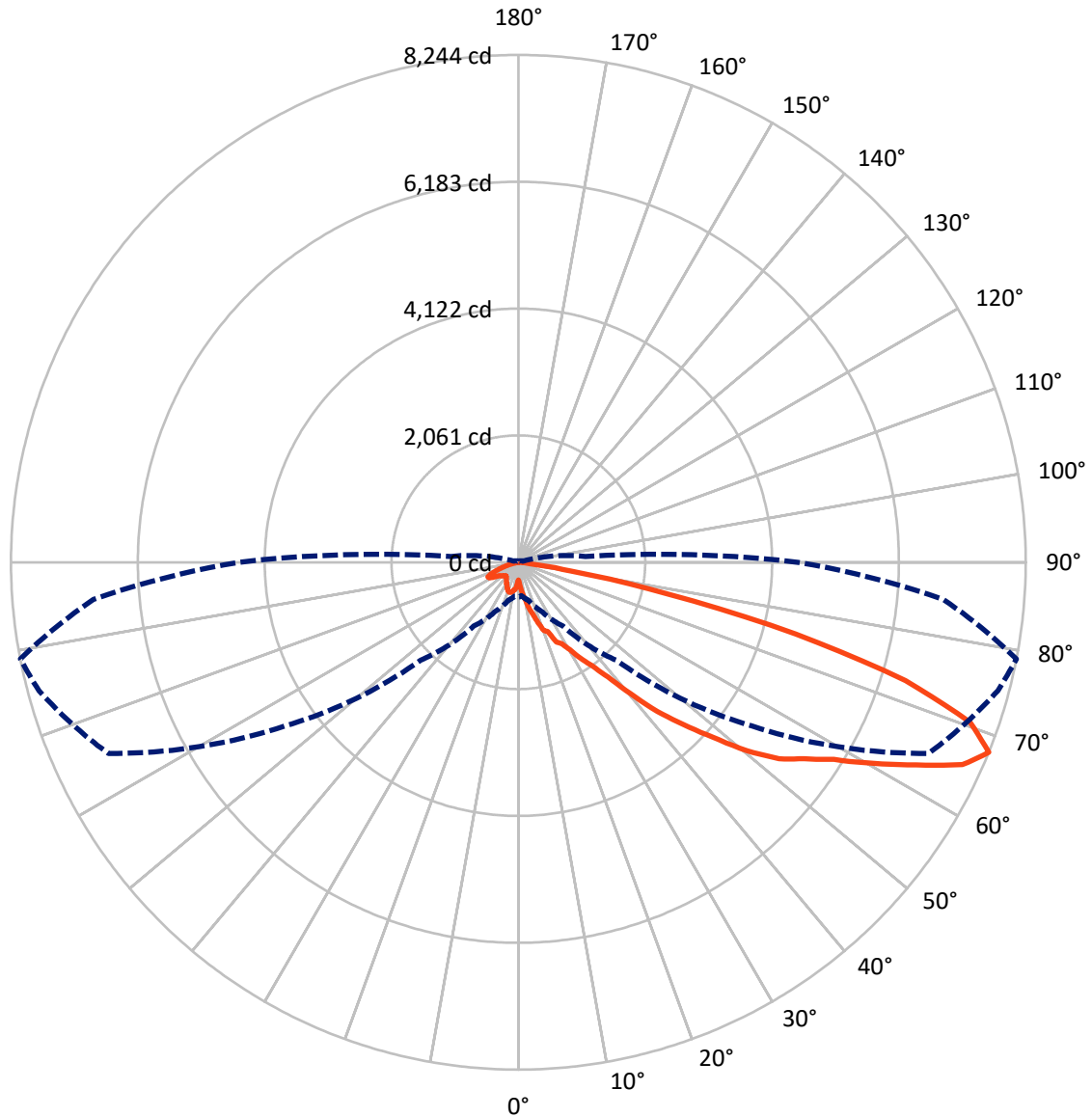
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P367317
CATALOG NUMBER: PMM-SA2B-740-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P367317

CATALOG NUMBER: PMM-SA2B-740-U-T2-HSS

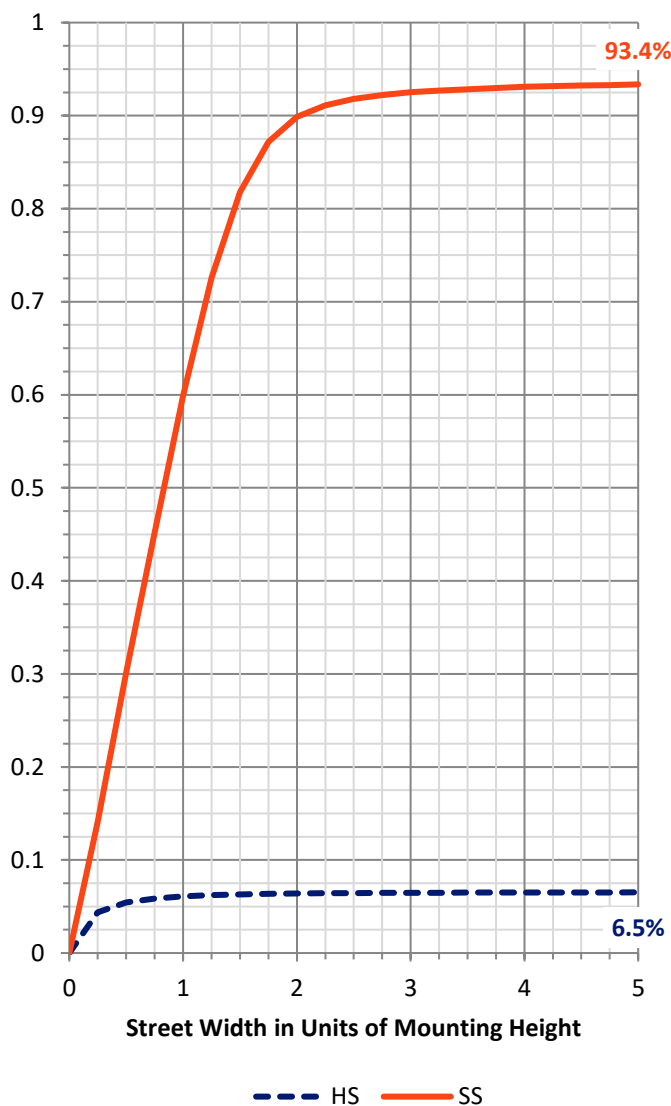
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 493.7 | 0.0 | 493.7 |
| | % Fixture | 6.6 | 0.0 | 6.6 |
| Street Side | Lumens | 7019.3 | 0.0 | 7019.3 |
| | % Fixture | 93.4 | 0.0 | 93.4 |
| Total | Lumens | 7513.0 | 0.0 | 7513.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.1 | 0.6 |
| 10°-20° | 167.9 | 2.2 |
| 20°-30° | 323.9 | 4.3 |
| 30°-40° | 636.2 | 8.5 |
| 40°-50° | 1274.5 | 17.0 |
| 50°-60° | 2037.0 | 27.1 |
| 60°-70° | 2049.6 | 27.3 |
| 70°-80° | 924.6 | 12.3 |
| 80°-90° | 57.2 | 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° | 7513.0 | 100.0 |
| 0°-180° | 7513.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P367317

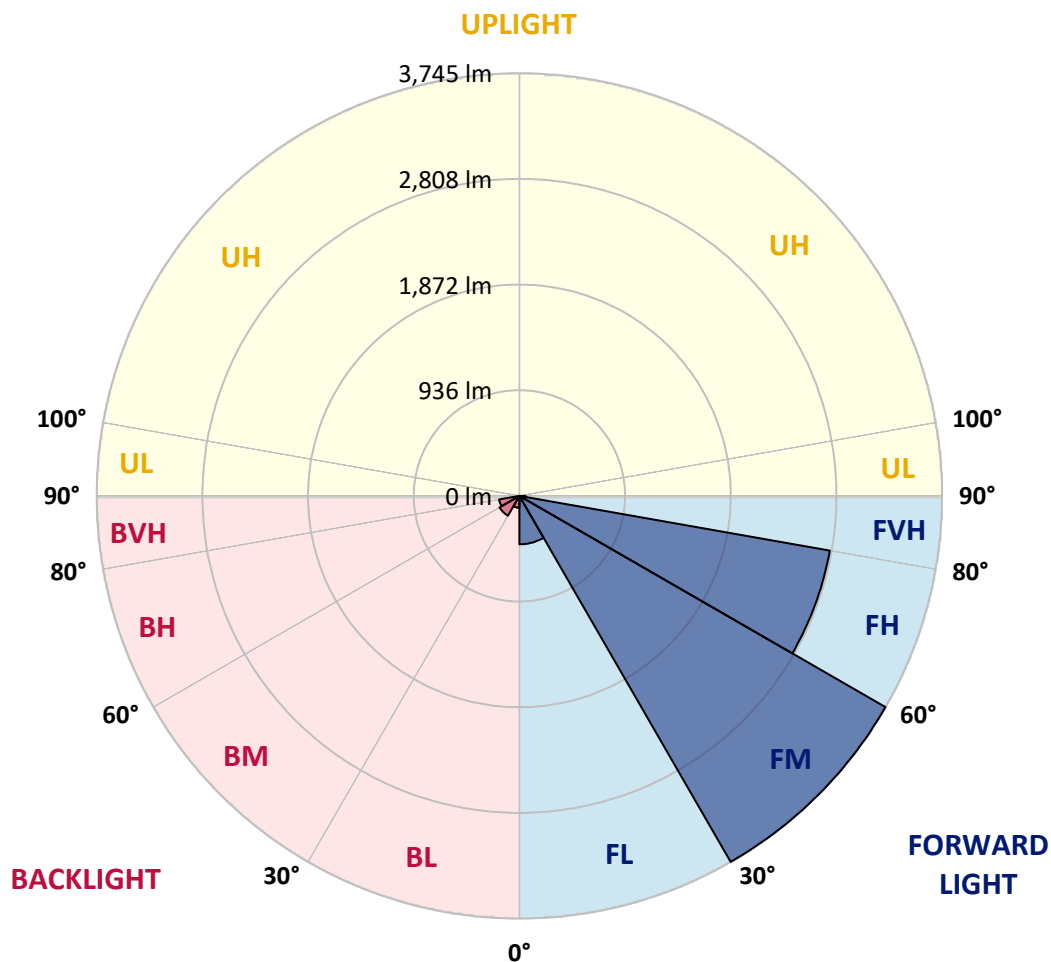
CATALOG NUMBER: PMM-SA2B-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 428.9 | 5.7 | | | |
| FM (30°-60°) | 3744.6 | 49.8 | | | |
| FH (60°-80°) | 2792.3 | 37.2 | | | G2/5000 |
| FVH (80°-90°) | 53.6 | 0.7 | | | G1/100 |
| BL (0°-30°) | 104.9 | 1.4 | B0/110 | | |
| BM (30°-60°) | 203.1 | 2.7 | B0/220 | | |
| BH (60°-80°) | 182.0 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.6 | 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 II Medium





REPORT NUMBER: P367317
 CATALOG NUMBER: PMM-SA2B-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 |
| 2.5° | 391.0 | 376.9 | 354.1 | 366.9 | 366.1 | 372.7 | 360.3 | 346.6 | 324.7 | 346.6 | 348.3 |
| 5° | 562.8 | 536.7 | 520.2 | 516.9 | 498.6 | 481.7 | 477.9 | 463.9 | 453.1 | 433.6 | 451.0 |
| 7.5° | 701.2 | 689.2 | 659.8 | 656.4 | 611.7 | 586.9 | 594.7 | 588.5 | 547.5 | 527.2 | 544.2 |
| 10° | 760.0 | 739.3 | 743.4 | 739.3 | 720.2 | 727.3 | 711.1 | 692.5 | 659.8 | 626.2 | 584.0 |
| 12.5° | 782.8 | 779.4 | 813.8 | 809.7 | 854.4 | 908.2 | 872.2 | 841.2 | 765.4 | 757.1 | 699.5 |
| 15° | 831.6 | 852.3 | 847.4 | 864.8 | 893.3 | 984.9 | 984.0 | 991.5 | 911.1 | 868.1 | 784.8 |
| 17.5° | 875.1 | 890.4 | 865.6 | 885.5 | 963.3 | 1018.8 | 1093.0 | 1064.0 | 1073.1 | 1029.2 | 900.4 |
| 20° | 856.5 | 873.9 | 849.0 | 837.0 | 974.1 | 1079.3 | 1178.3 | 1157.2 | 1211.8 | 1184.5 | 1006.8 |
| 22.5° | 972.9 | 940.1 | 877.6 | 838.7 | 941.0 | 1078.0 | 1208.5 | 1296.7 | 1287.2 | 1220.1 | 1105.8 |
| 25° | 1116.6 | 1096.7 | 1021.7 | 953.0 | 962.1 | 1070.6 | 1303.8 | 1433.4 | 1461.6 | 1433.0 | 1199.8 |
| 27.5° | 1310.4 | 1305.8 | 1152.6 | 1122.8 | 1034.1 | 1037.9 | 1318.7 | 1605.7 | 1541.5 | 1496.8 | 1309.6 |
| 30° | 1563.4 | 1527.4 | 1345.6 | 1306.7 | 1175.8 | 1111.6 | 1409.8 | 1754.4 | 1707.2 | 1646.3 | 1412.7 |
| 32.5° | 1835.5 | 1840.9 | 1609.0 | 1480.6 | 1375.4 | 1299.2 | 1373.8 | 1823.9 | 1912.2 | 1862.9 | 1541.5 |
| 35° | 2144.5 | 2168.5 | 1884.8 | 1734.1 | 1529.5 | 1417.2 | 1528.7 | 2037.7 | 2195.9 | 2066.2 | 1714.2 |
| 37.5° | 2620.4 | 2619.5 | 2288.2 | 1988.0 | 1839.3 | 1717.5 | 1786.7 | 2231.9 | 2544.6 | 2362.3 | 2024.0 |
| 40° | 3039.1 | 2948.0 | 2639.8 | 2294.8 | 2062.9 | 2029.8 | 1979.7 | 2497.8 | 2916.9 | 2807.2 | 2299.4 |
| 42.5° | 3351.8 | 3287.6 | 2915.2 | 2646.9 | 2359.5 | 2254.3 | 2236.4 | 2887.5 | 3466.5 | 3312.8 | 2692.4 |
| 45° | 3725.8 | 3515.4 | 3241.2 | 2999.3 | 2706.5 | 2675.9 | 2634.0 | 3283.0 | 4105.9 | 3759.7 | 3034.1 |
| 47.5° | 4060.8 | 3862.8 | 3603.6 | 3293.0 | 2956.7 | 3209.3 | 3048.6 | 3630.5 | 4571.0 | 4245.9 | 3411.0 |
| 50° | 4342.8 | 4132.5 | 3842.1 | 3605.6 | 3461.5 | 3633.0 | 3365.0 | 3916.7 | 5073.4 | 4810.0 | 3763.4 |
| 52.5° | 4486.6 | 4248.4 | 4023.9 | 3877.7 | 3966.0 | 3927.4 | 3794.1 | 4263.3 | 5501.7 | 5304.5 | 4075.7 |
| 55° | 4368.5 | 4135.8 | 4041.8 | 4114.2 | 4382.2 | 4270.8 | 4281.6 | 4800.5 | 5905.9 | 5634.2 | 4347.4 |
| 57.5° | 3845.0 | 3632.6 | 3674.4 | 3872.8 | 4386.3 | 4677.9 | 4837.3 | 5322.3 | 6230.2 | 6045.0 | 4766.5 |
| 60° | 2908.6 | 2737.6 | 2892.5 | 3244.5 | 3973.8 | 4596.7 | 5231.6 | 5844.2 | 6693.6 | 6635.6 | 5401.0 |
| 62.5° | 1776.3 | 1683.5 | 1903.0 | 2342.1 | 3166.6 | 4198.7 | 5461.5 | 6539.9 | 7189.3 | 7251.1 | 6074.0 |
| 65° | 906.2 | 864.3 | 1047.4 | 1433.4 | 2139.5 | 3449.1 | 5295.4 | 6972.3 | 7701.7 | 7929.4 | 6715.5 |
| 67.5° | 570.7 | 543.8 | 641.5 | 874.3 | 1262.3 | 2249.7 | 4636.5 | 7350.5 | 8063.6 | 8243.8 | 6929.7 |
| 70° | 395.5 | 378.5 | 463.0 | 600.1 | 796.4 | 1211.8 | 3442.5 | 6997.6 | 7776.6 | 7784.9 | 6411.6 |
| 72.5° | 251.0 | 237.7 | 320.1 | 444.4 | 587.7 | 625.8 | 1973.5 | 5490.9 | 6656.7 | 6580.1 | 5192.3 |
| 75° | 162.8 | 156.1 | 203.4 | 325.5 | 451.4 | 386.0 | 975.3 | 3705.0 | 4773.2 | 4653.0 | 3448.7 |
| 77.5° | 116.8 | 112.7 | 136.3 | 217.4 | 321.4 | 270.0 | 437.3 | 2208.3 | 2736.7 | 2474.2 | 1674.0 |
| 80° | 70.4 | 70.0 | 98.6 | 136.3 | 228.6 | 190.5 | 202.1 | 1002.7 | 1061.1 | 865.2 | 511.5 |
| 82.5° | 35.2 | 36.4 | 55.1 | 87.8 | 147.0 | 124.7 | 92.4 | 333.8 | 284.9 | 210.0 | 103.5 |
| 85° | 8.3 | 10.4 | 29.0 | 60.5 | 73.7 | 49.7 | 43.9 | 87.4 | 78.3 | 59.2 | 30.2 |
| 87.5° | 0.0 | 0.0 | 9.1 | 14.5 | 19.9 | 8.3 | 14.9 | 16.6 | 21.1 | 16.6 | 6.2 |
| 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: P367317
 CATALOG NUMBER: PMM-SA2B-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 | 289.5 |
| 2.5° | 348.7 | 343.7 | 313.5 | 305.6 | 304.8 | 296.1 | 298.2 | 289.9 | 290.3 | 309.0 | 309.0 |
| 5° | 444.4 | 415.4 | 386.4 | 360.7 | 343.3 | 318.5 | 309.4 | 305.6 | 302.3 | 309.8 | 314.3 |
| 7.5° | 521.8 | 479.2 | 427.0 | 371.1 | 319.3 | 283.7 | 278.7 | 269.6 | 266.3 | 273.8 | 279.6 |
| 10° | 556.2 | 503.2 | 431.6 | 350.0 | 301.5 | 272.5 | 248.5 | 235.7 | 233.2 | 232.8 | 234.8 |
| 12.5° | 629.1 | 563.3 | 436.5 | 342.1 | 289.5 | 257.6 | 230.3 | 208.7 | 188.9 | 190.9 | 188.9 |
| 15° | 687.5 | 609.6 | 436.5 | 323.0 | 260.5 | 228.6 | 180.6 | 169.8 | 166.9 | 171.5 | 167.7 |
| 17.5° | 775.7 | 655.6 | 414.6 | 289.1 | 235.7 | 177.7 | 159.5 | 158.6 | 164.4 | 171.0 | 166.9 |
| 20° | 828.7 | 661.8 | 377.7 | 250.2 | 193.4 | 154.1 | 147.4 | 140.8 | 149.1 | 154.5 | 152.4 |
| 22.5° | 883.8 | 662.2 | 340.9 | 229.4 | 155.7 | 140.4 | 129.6 | 124.2 | 125.5 | 130.5 | 131.3 |
| 25° | 907.4 | 646.1 | 306.5 | 202.1 | 141.2 | 125.5 | 114.3 | 108.5 | 106.4 | 108.9 | 108.1 |
| 27.5° | 971.6 | 615.0 | 269.2 | 172.3 | 134.2 | 111.4 | 101.1 | 94.0 | 87.8 | 91.9 | 92.8 |
| 30° | 980.7 | 605.1 | 248.9 | 153.2 | 125.1 | 98.6 | 89.5 | 82.0 | 77.4 | 83.2 | 83.2 |
| 32.5° | 1009.7 | 550.4 | 238.6 | 145.4 | 115.5 | 91.1 | 78.7 | 73.3 | 72.5 | 76.2 | 76.6 |
| 35° | 1054.4 | 526.4 | 223.2 | 139.2 | 106.9 | 82.4 | 70.8 | 68.3 | 67.5 | 70.4 | 70.4 |
| 37.5° | 1206.0 | 496.6 | 206.2 | 133.8 | 99.4 | 77.9 | 68.7 | 64.6 | 65.0 | 67.5 | 69.2 |
| 40° | 1306.7 | 500.3 | 181.0 | 127.1 | 90.7 | 73.7 | 64.6 | 61.7 | 61.3 | 62.5 | 63.8 |
| 42.5° | 1493.4 | 503.2 | 169.8 | 120.1 | 84.1 | 68.7 | 60.5 | 58.4 | 56.7 | 58.0 | 59.2 |
| 45° | 1702.2 | 518.5 | 164.0 | 114.3 | 80.3 | 65.9 | 56.7 | 55.5 | 51.8 | 52.6 | 54.3 |
| 47.5° | 1903.5 | 574.4 | 157.0 | 106.0 | 77.0 | 64.2 | 53.0 | 50.1 | 47.6 | 47.2 | 48.9 |
| 50° | 2132.1 | 628.7 | 149.1 | 96.9 | 73.7 | 61.7 | 49.3 | 44.7 | 43.1 | 43.1 | 44.3 |
| 52.5° | 2336.7 | 680.5 | 141.6 | 90.7 | 71.2 | 57.2 | 46.0 | 41.4 | 40.2 | 40.2 | 41.8 |
| 55° | 2552.0 | 734.7 | 135.0 | 84.9 | 67.9 | 52.6 | 43.1 | 38.9 | 38.5 | 37.7 | 38.9 |
| 57.5° | 2932.2 | 853.2 | 126.7 | 79.9 | 63.4 | 48.9 | 40.6 | 36.4 | 35.6 | 34.4 | 35.6 |
| 60° | 3486.0 | 1035.0 | 116.0 | 75.0 | 58.0 | 46.4 | 38.5 | 33.5 | 32.3 | 30.2 | 30.6 |
| 62.5° | 4027.3 | 1182.0 | 103.5 | 68.7 | 53.0 | 43.9 | 35.2 | 30.2 | 28.2 | 25.7 | 26.1 |
| 65° | 4491.1 | 1240.0 | 90.3 | 61.3 | 48.0 | 38.1 | 30.6 | 26.5 | 23.6 | 20.3 | 19.9 |
| 67.5° | 4545.8 | 1095.0 | 77.4 | 54.3 | 43.1 | 32.3 | 26.1 | 23.6 | 19.1 | 16.2 | 15.3 |
| 70° | 4091.0 | 815.9 | 64.6 | 48.0 | 37.3 | 27.3 | 22.4 | 20.7 | 17.8 | 15.3 | 14.1 |
| 72.5° | 3257.8 | 602.2 | 54.3 | 42.7 | 32.7 | 23.2 | 19.1 | 19.5 | 17.8 | 14.9 | 13.3 |
| 75° | 2154.4 | 344.6 | 44.3 | 35.6 | 27.3 | 18.6 | 17.4 | 17.4 | 17.0 | 14.1 | 12.4 |
| 77.5° | 1036.6 | 148.7 | 34.0 | 28.2 | 22.0 | 14.1 | 15.7 | 15.7 | 16.2 | 12.8 | 10.4 |
| 80° | 294.1 | 44.7 | 21.1 | 19.1 | 16.2 | 9.5 | 12.4 | 12.0 | 10.8 | 7.5 | 4.6 |
| 82.5° | 52.6 | 17.4 | 9.5 | 9.9 | 9.1 | 3.7 | 7.0 | 6.6 | 5.4 | 2.9 | 0.4 |
| 85° | 14.5 | 6.6 | 5.4 | 5.8 | 4.6 | 1.2 | 2.9 | 3.7 | 2.9 | 1.7 | 0.0 |
| 87.5° | 3.7 | 2.9 | 3.7 | 4.1 | 3.3 | 0.4 | 1.2 | 0.4 | 1.2 | 0.4 | 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)