

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: P368379

Luminaire Tested: **PMM-SA4B-740-U-T4W-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-15)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4B-740-U-T4W-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14647 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

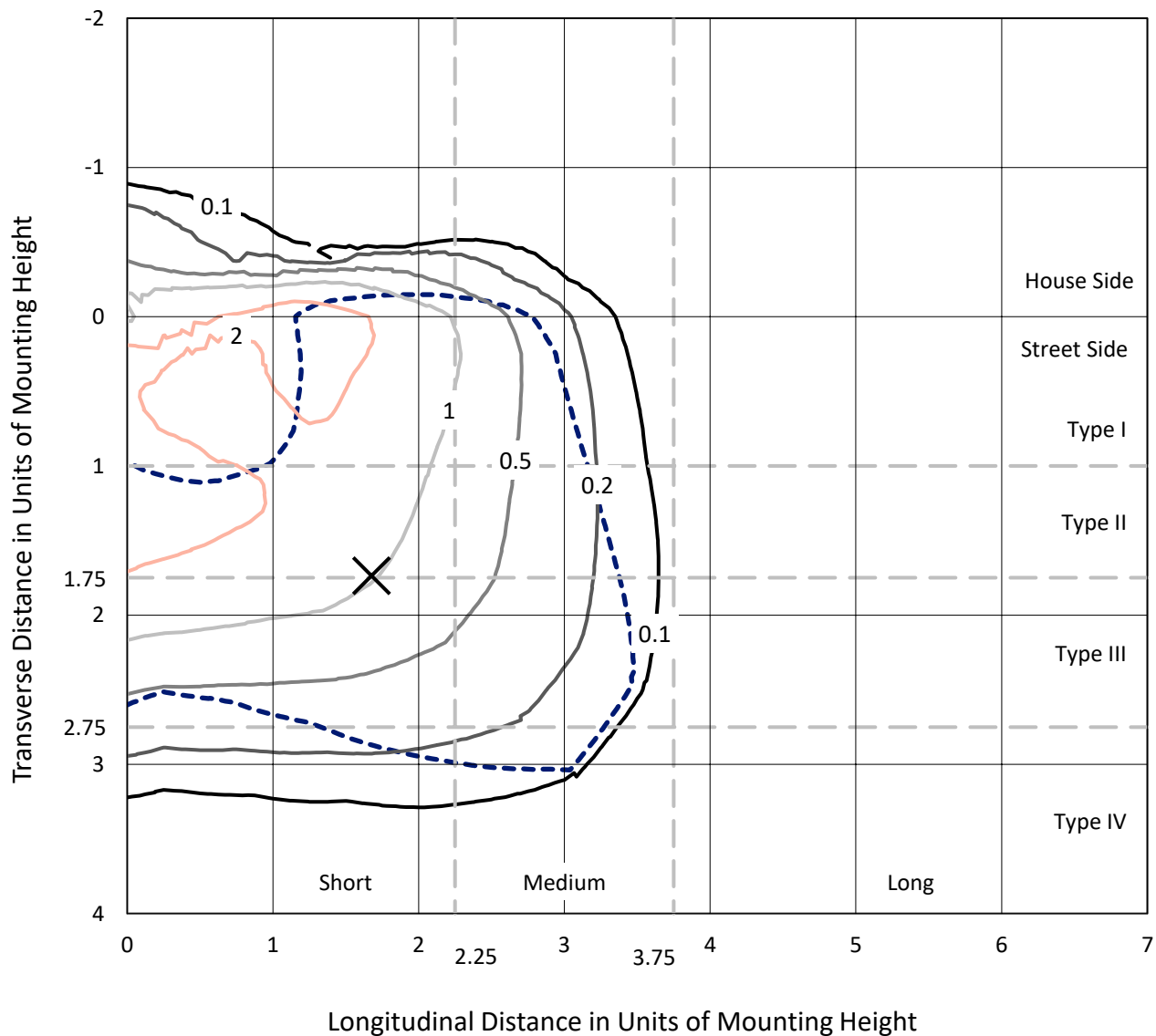
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

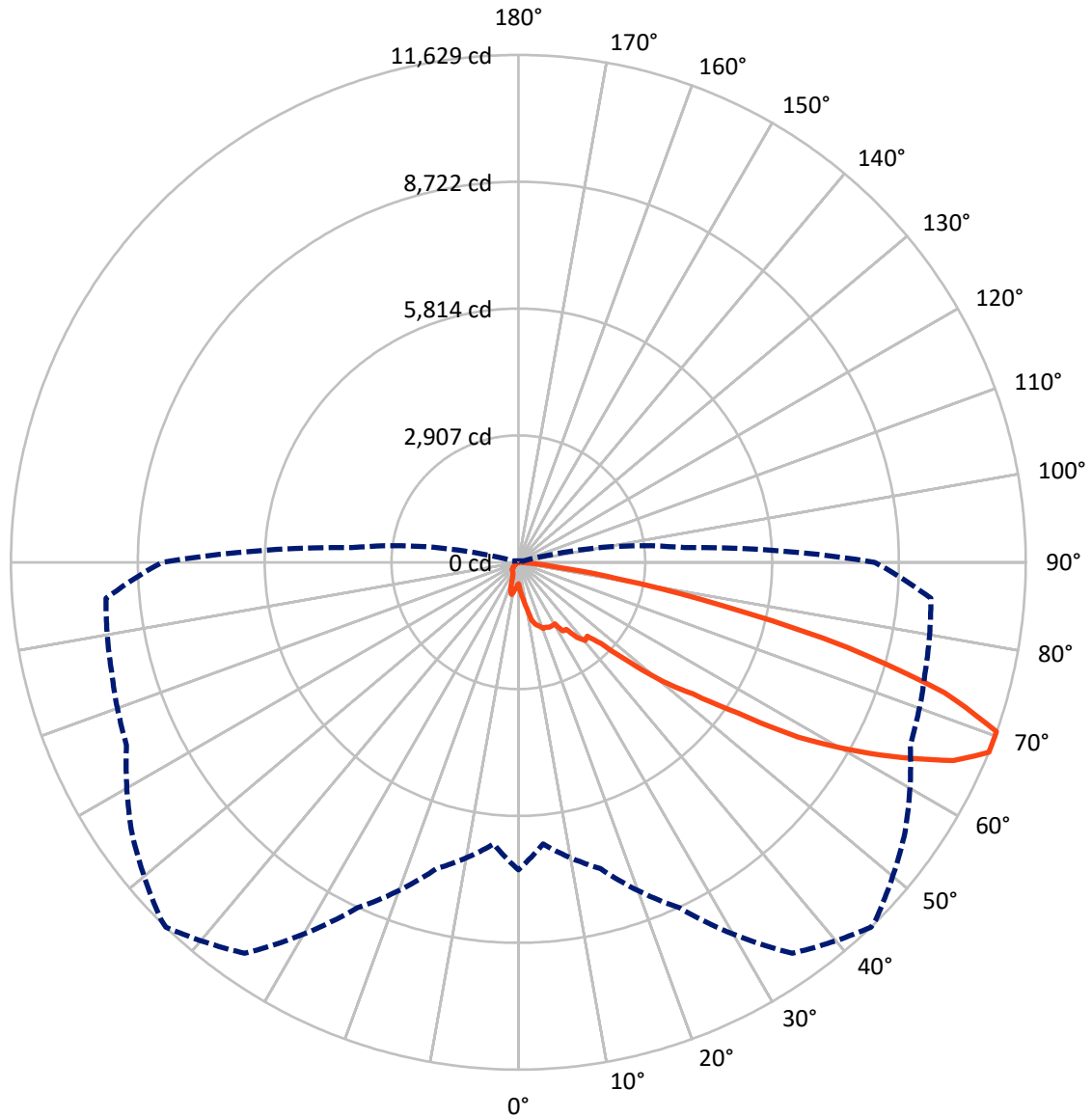
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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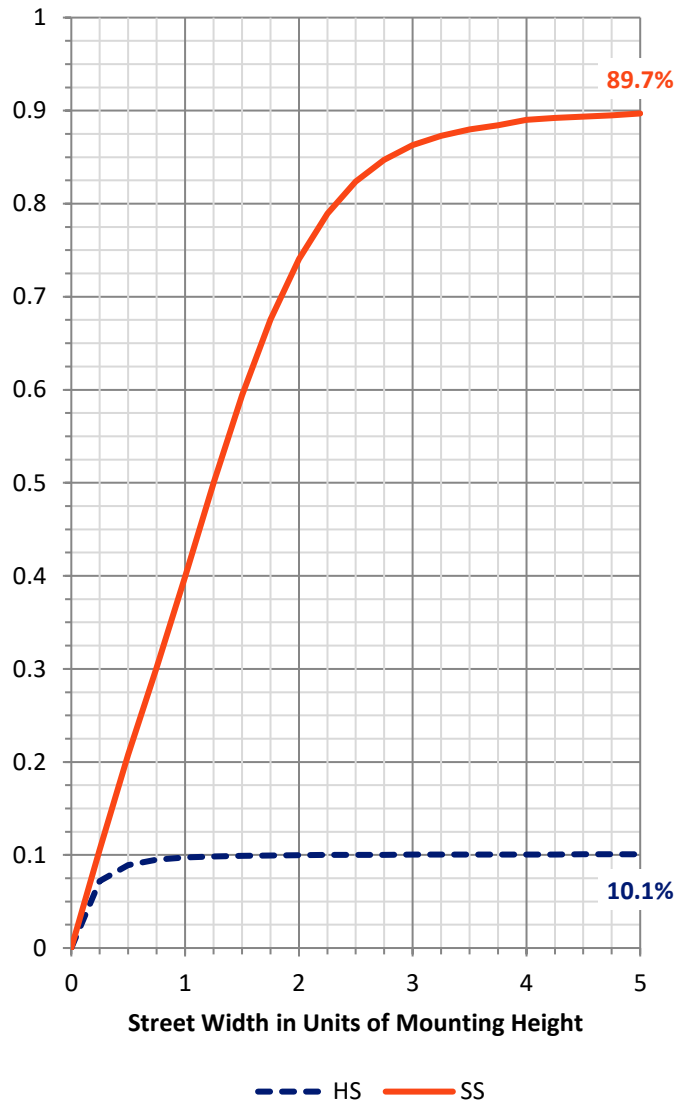
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1487.9 | 0.0 | 1487.9 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 13159.2 | 0.0 | 13159.2 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 14647.0 | 0.0 | 14647.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 73.1 | 0.5 |
| 10°-20° | 306.2 | 2.1 |
| 20°-30° | 542.5 | 3.7 |
| 30°-40° | 881.7 | 6.0 |
| 40°-50° | 1764.4 | 12.0 |
| 50°-60° | 3619.8 | 24.7 |
| 60°-70° | 4972.5 | 33.9 |
| 70°-80° | 2337.1 | 16.0 |
| 80°-90° | 149.7 | 1.0 |
| 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° | 14647.0 | 100.0 |
| 0°-180° | 14647.0 | 100.0 |

Coefficient of Utilization



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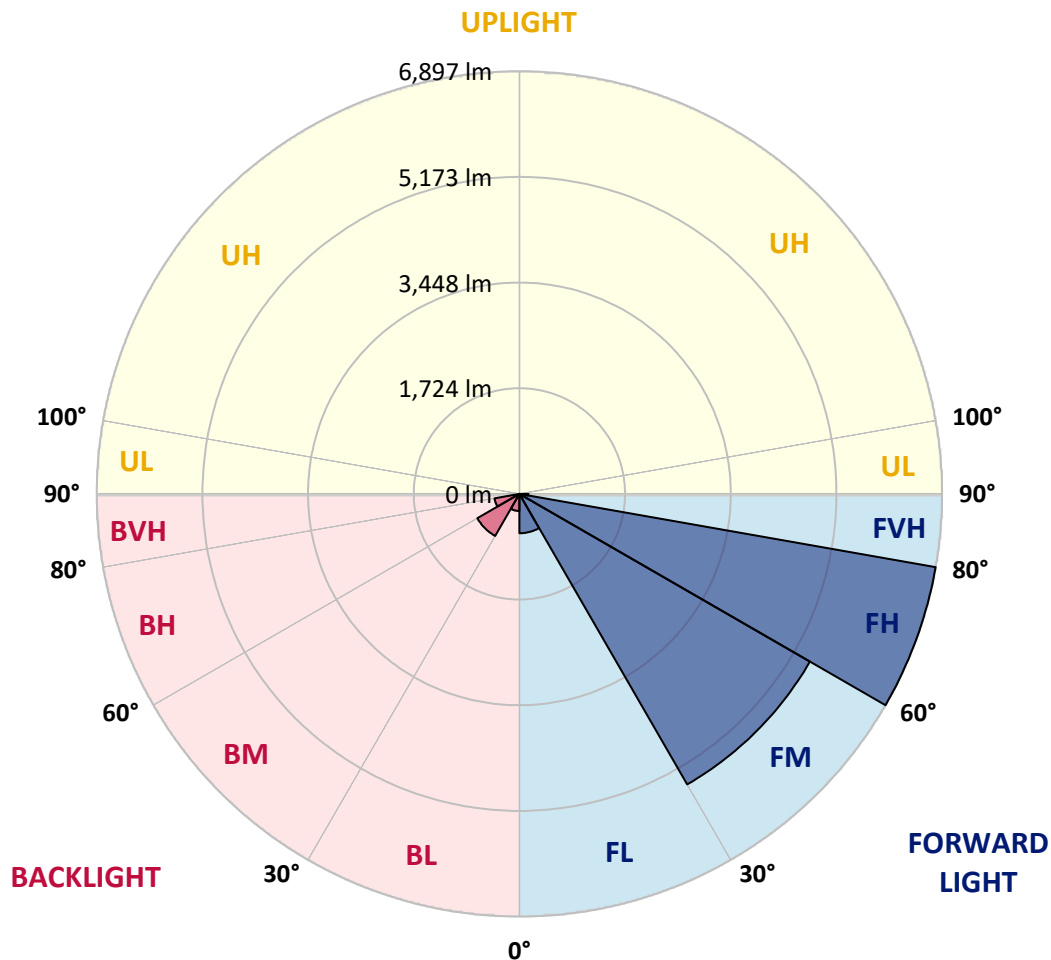
CATALOG NUMBER: PMM-SA4B-740-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 642.5 | 4.4 | | | |
| FM (30°-60°) | 5473.3 | 37.4 | | | |
| FH (60°-80°) | 6896.7 | 47.1 | | | G3/7500 |
| FVH (80°-90°) | 146.6 | 1.0 | | | G2/225 |
| BL (0°-30°) | 279.4 | 1.9 | B1/500 | | |
| BM (30°-60°) | 792.6 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 412.9 | 2.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.1 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| 0° | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 |
| 2.5° | 627.6 | 607.4 | 578.3 | 584.8 | 588.0 | 596.9 | 597.7 | 586.4 | 554.1 | 545.2 | 584.8 |
| 5° | 879.6 | 830.3 | 821.4 | 802.8 | 765.7 | 745.5 | 740.6 | 760.8 | 735.0 | 726.9 | 737.4 |
| 7.5° | 1123.5 | 1081.5 | 1035.4 | 1010.4 | 932.9 | 885.2 | 882.8 | 890.9 | 895.7 | 867.4 | 882.0 |
| 10° | 1285.8 | 1239.8 | 1230.1 | 1171.1 | 1104.1 | 1092.8 | 1087.9 | 1057.2 | 1032.2 | 1011.2 | 940.9 |
| 12.5° | 1432.8 | 1432.0 | 1449.8 | 1365.0 | 1354.5 | 1365.8 | 1361.7 | 1251.9 | 1226.9 | 1138.8 | 1118.6 |
| 15° | 1628.3 | 1676.7 | 1600.0 | 1528.9 | 1438.5 | 1477.2 | 1466.7 | 1396.5 | 1379.5 | 1319.7 | 1233.3 |
| 17.5° | 1831.0 | 1843.9 | 1715.5 | 1606.5 | 1583.0 | 1532.1 | 1542.6 | 1517.6 | 1432.0 | 1479.7 | 1394.0 |
| 20° | 1835.8 | 1864.1 | 1726.8 | 1546.7 | 1618.6 | 1616.1 | 1617.0 | 1592.7 | 1479.7 | 1591.1 | 1512.8 |
| 22.5° | 1903.7 | 1834.2 | 1706.6 | 1591.9 | 1604.8 | 1617.0 | 1629.9 | 1600.0 | 1575.8 | 1603.2 | 1617.8 |
| 25° | 1876.2 | 1848.8 | 1726.0 | 1650.1 | 1638.0 | 1647.6 | 1650.9 | 1688.8 | 1673.5 | 1739.7 | 1703.4 |
| 27.5° | 1947.3 | 1907.7 | 1688.0 | 1701.8 | 1659.0 | 1647.6 | 1628.3 | 1755.1 | 1800.3 | 1747.8 | 1844.7 |
| 30° | 2069.3 | 2063.6 | 1753.5 | 1773.6 | 1740.5 | 1641.2 | 1692.9 | 1858.4 | 1915.0 | 1882.7 | 2000.6 |
| 32.5° | 2259.9 | 2279.2 | 1944.9 | 1814.0 | 1831.0 | 1875.4 | 1856.0 | 1858.4 | 2001.4 | 2073.3 | 2167.0 |
| 35° | 2530.4 | 2519.9 | 2131.4 | 1967.5 | 1878.6 | 1885.9 | 1913.4 | 2045.0 | 2230.0 | 2225.1 | 2324.5 |
| 37.5° | 3061.9 | 2947.2 | 2461.8 | 2124.2 | 2150.8 | 2187.2 | 2167.0 | 2343.9 | 2361.6 | 2368.1 | 2605.5 |
| 40° | 3845.3 | 3692.7 | 2982.7 | 2454.5 | 2197.7 | 2358.4 | 2348.7 | 2392.3 | 2511.0 | 2555.5 | 2902.0 |
| 42.5° | 4877.5 | 4672.4 | 3899.4 | 3061.9 | 2423.8 | 2313.2 | 2372.9 | 2455.3 | 2854.3 | 2981.1 | 3360.7 |
| 45° | 6017.9 | 5602.8 | 4813.7 | 3927.7 | 2990.8 | 2647.5 | 2692.8 | 2846.2 | 3399.5 | 3609.5 | 4028.7 |
| 47.5° | 6757.0 | 6391.9 | 5719.1 | 4695.0 | 3582.0 | 3401.9 | 3405.9 | 3439.1 | 4040.0 | 4429.3 | 4991.4 |
| 50° | 7399.1 | 7010.6 | 6386.2 | 5497.0 | 4627.9 | 4287.1 | 4209.6 | 4056.9 | 4855.7 | 5388.0 | 6011.5 |
| 52.5° | 8305.3 | 7851.4 | 7053.4 | 6437.9 | 5820.9 | 5018.1 | 4990.6 | 5042.3 | 5817.6 | 6377.4 | 7057.4 |
| 55° | 9122.6 | 8571.0 | 7809.4 | 7421.7 | 7181.0 | 6092.3 | 6115.7 | 6202.1 | 7052.6 | 7349.0 | 7987.9 |
| 57.5° | 9483.7 | 8886.0 | 8494.3 | 8319.8 | 8191.4 | 7559.8 | 7480.6 | 7428.9 | 8026.6 | 8139.7 | 8962.7 |
| 60° | 9720.3 | 9151.7 | 8974.0 | 9014.4 | 9403.7 | 8733.3 | 8661.5 | 8361.0 | 8832.7 | 8925.6 | 9836.6 |
| 62.5° | 9570.9 | 9052.4 | 9090.3 | 9427.1 | 10291.3 | 9850.3 | 9642.8 | 9140.4 | 9491.7 | 9566.8 | 10464.2 |
| 65° | 8630.0 | 8089.6 | 8577.5 | 9392.4 | 10968.2 | 10957.7 | 10861.5 | 9860.0 | 9856.8 | 9952.9 | 10512.6 |
| 67.5° | 7049.3 | 6482.4 | 7271.5 | 8741.4 | 10939.9 | 11628.8 | 11583.6 | 10814.7 | 9909.3 | 9652.5 | 9486.9 |
| 70° | 4900.9 | 4409.1 | 5304.0 | 7219.0 | 9965.0 | 11624.0 | 11551.3 | 11456.0 | 9494.2 | 8308.5 | 7355.4 |
| 72.5° | 2546.6 | 2276.0 | 3109.5 | 4974.4 | 7943.4 | 10213.0 | 10452.9 | 10296.2 | 8106.6 | 6036.5 | 4331.5 |
| 75° | 865.0 | 776.2 | 1282.6 | 2640.3 | 5280.5 | 7798.9 | 8079.9 | 7920.8 | 5505.9 | 3238.8 | 1713.1 |
| 77.5° | 335.2 | 311.8 | 459.6 | 1071.8 | 2649.2 | 4752.3 | 5057.6 | 4895.3 | 2952.8 | 1186.5 | 403.0 |
| 80° | 190.6 | 184.1 | 253.6 | 483.0 | 1167.9 | 2364.0 | 2578.9 | 2339.0 | 1064.5 | 399.8 | 105.0 |
| 82.5° | 80.8 | 83.2 | 141.3 | 260.9 | 587.2 | 834.3 | 930.4 | 848.9 | 445.8 | 273.8 | 38.8 |
| 85° | 17.8 | 21.8 | 67.0 | 145.4 | 246.3 | 238.3 | 249.6 | 277.0 | 273.8 | 201.1 | 17.0 |
| 87.5° | 0.0 | 0.0 | 21.0 | 39.6 | 59.0 | 38.8 | 30.7 | 54.1 | 84.0 | 80.8 | 7.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: PMM-SA4B-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 | 493.5 |
| 2.5° | 592.0 | 583.9 | 533.1 | 529.8 | 533.1 | 524.2 | 523.4 | 504.8 | 506.4 | 548.4 | 551.6 |
| 5° | 737.4 | 697.0 | 653.4 | 639.7 | 626.8 | 597.7 | 613.8 | 613.8 | 613.8 | 640.5 | 648.6 |
| 7.5° | 869.1 | 814.9 | 753.6 | 701.9 | 651.8 | 615.4 | 640.5 | 658.3 | 668.8 | 703.5 | 719.6 |
| 10° | 928.8 | 875.5 | 820.6 | 747.1 | 708.3 | 694.6 | 665.5 | 650.2 | 668.8 | 661.5 | 670.4 |
| 12.5° | 1056.4 | 1008.0 | 913.5 | 837.6 | 808.5 | 761.6 | 676.0 | 616.3 | 576.7 | 570.2 | 568.6 |
| 15° | 1180.8 | 1150.9 | 1024.1 | 922.4 | 821.4 | 713.2 | 567.0 | 487.8 | 445.8 | 438.6 | 439.4 |
| 17.5° | 1338.3 | 1295.5 | 1108.9 | 962.7 | 791.5 | 596.9 | 437.8 | 369.9 | 366.7 | 384.5 | 386.1 |
| 20° | 1443.3 | 1373.0 | 1151.7 | 929.6 | 693.0 | 451.5 | 342.5 | 326.3 | 352.1 | 384.5 | 381.2 |
| 22.5° | 1543.5 | 1467.5 | 1208.3 | 900.6 | 537.1 | 342.5 | 315.0 | 316.6 | 338.4 | 373.1 | 382.0 |
| 25° | 1609.7 | 1582.2 | 1277.7 | 832.7 | 409.5 | 296.4 | 301.3 | 313.4 | 332.0 | 365.1 | 365.1 |
| 27.5° | 1809.2 | 1680.8 | 1269.7 | 701.1 | 315.0 | 276.2 | 287.5 | 302.9 | 312.6 | 352.1 | 356.2 |
| 30° | 1930.3 | 1888.3 | 1311.7 | 567.0 | 276.2 | 250.4 | 272.2 | 285.9 | 292.4 | 337.6 | 339.2 |
| 32.5° | 2078.9 | 1986.1 | 1362.5 | 418.4 | 256.8 | 248.8 | 243.9 | 254.4 | 273.0 | 312.6 | 315.0 |
| 35° | 2259.9 | 2232.4 | 1289.8 | 328.7 | 250.4 | 232.6 | 222.9 | 228.6 | 240.7 | 267.3 | 273.0 |
| 37.5° | 2629.0 | 2465.8 | 1246.2 | 281.9 | 250.4 | 227.0 | 216.5 | 201.9 | 203.5 | 222.1 | 232.6 |
| 40° | 2939.9 | 2889.8 | 1124.3 | 273.8 | 239.1 | 218.9 | 193.0 | 175.3 | 163.1 | 168.8 | 172.8 |
| 42.5° | 3510.9 | 3279.1 | 966.8 | 269.8 | 228.6 | 197.9 | 164.0 | 145.4 | 126.8 | 128.4 | 134.9 |
| 45° | 4203.9 | 3704.0 | 826.2 | 265.7 | 221.3 | 176.9 | 138.1 | 116.3 | 96.9 | 97.7 | 104.2 |
| 47.5° | 5129.5 | 4323.5 | 655.8 | 253.6 | 208.4 | 157.5 | 111.5 | 88.8 | 77.5 | 80.0 | 85.6 |
| 50° | 6181.1 | 4867.0 | 518.5 | 235.0 | 193.0 | 138.9 | 90.5 | 71.9 | 67.8 | 70.3 | 76.7 |
| 52.5° | 7120.4 | 5267.6 | 428.1 | 218.1 | 171.2 | 113.1 | 75.9 | 63.8 | 62.2 | 63.8 | 68.7 |
| 55° | 7955.5 | 5500.2 | 357.8 | 198.7 | 147.0 | 91.3 | 68.7 | 59.0 | 58.2 | 57.3 | 60.6 |
| 57.5° | 8739.0 | 5567.3 | 279.5 | 168.0 | 119.5 | 79.2 | 63.8 | 54.9 | 53.3 | 50.9 | 53.3 |
| 60° | 9310.0 | 5452.6 | 205.1 | 134.9 | 97.7 | 71.9 | 59.8 | 49.3 | 46.8 | 42.8 | 44.4 |
| 62.5° | 9585.4 | 5138.4 | 155.1 | 108.2 | 83.2 | 65.4 | 53.3 | 42.8 | 39.6 | 34.7 | 35.5 |
| 65° | 9323.7 | 4620.7 | 122.0 | 91.3 | 71.1 | 54.9 | 45.2 | 36.3 | 32.3 | 27.5 | 27.5 |
| 67.5° | 8164.7 | 3833.2 | 103.4 | 79.2 | 59.8 | 46.8 | 37.2 | 33.1 | 26.7 | 22.6 | 21.8 |
| 70° | 5992.9 | 2757.4 | 88.8 | 69.5 | 51.7 | 40.4 | 31.5 | 29.9 | 25.8 | 21.8 | 20.2 |
| 72.5° | 3382.5 | 1560.4 | 75.9 | 61.4 | 43.6 | 33.9 | 26.7 | 27.5 | 25.0 | 20.2 | 18.6 |
| 75° | 1290.7 | 525.8 | 63.0 | 50.9 | 35.5 | 25.8 | 22.6 | 22.6 | 22.6 | 17.0 | 14.5 |
| 77.5° | 319.8 | 134.1 | 50.1 | 41.2 | 28.3 | 17.0 | 18.6 | 19.4 | 19.4 | 14.5 | 10.5 |
| 80° | 88.0 | 45.2 | 29.9 | 29.9 | 20.2 | 9.7 | 12.9 | 12.9 | 10.5 | 4.8 | 0.0 |
| 82.5° | 32.3 | 17.0 | 10.5 | 12.9 | 8.9 | 3.2 | 4.8 | 3.2 | 2.4 | 0.0 | 0.0 |
| 85° | 13.7 | 8.9 | 6.5 | 7.3 | 4.0 | 0.0 | 0.8 | 1.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.7 | 4.0 | 3.2 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)