

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: P367695

Luminaire Tested: **PMM-SA3A-730-U-T4FT-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-13)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3A-730-U-T4FT-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8000 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

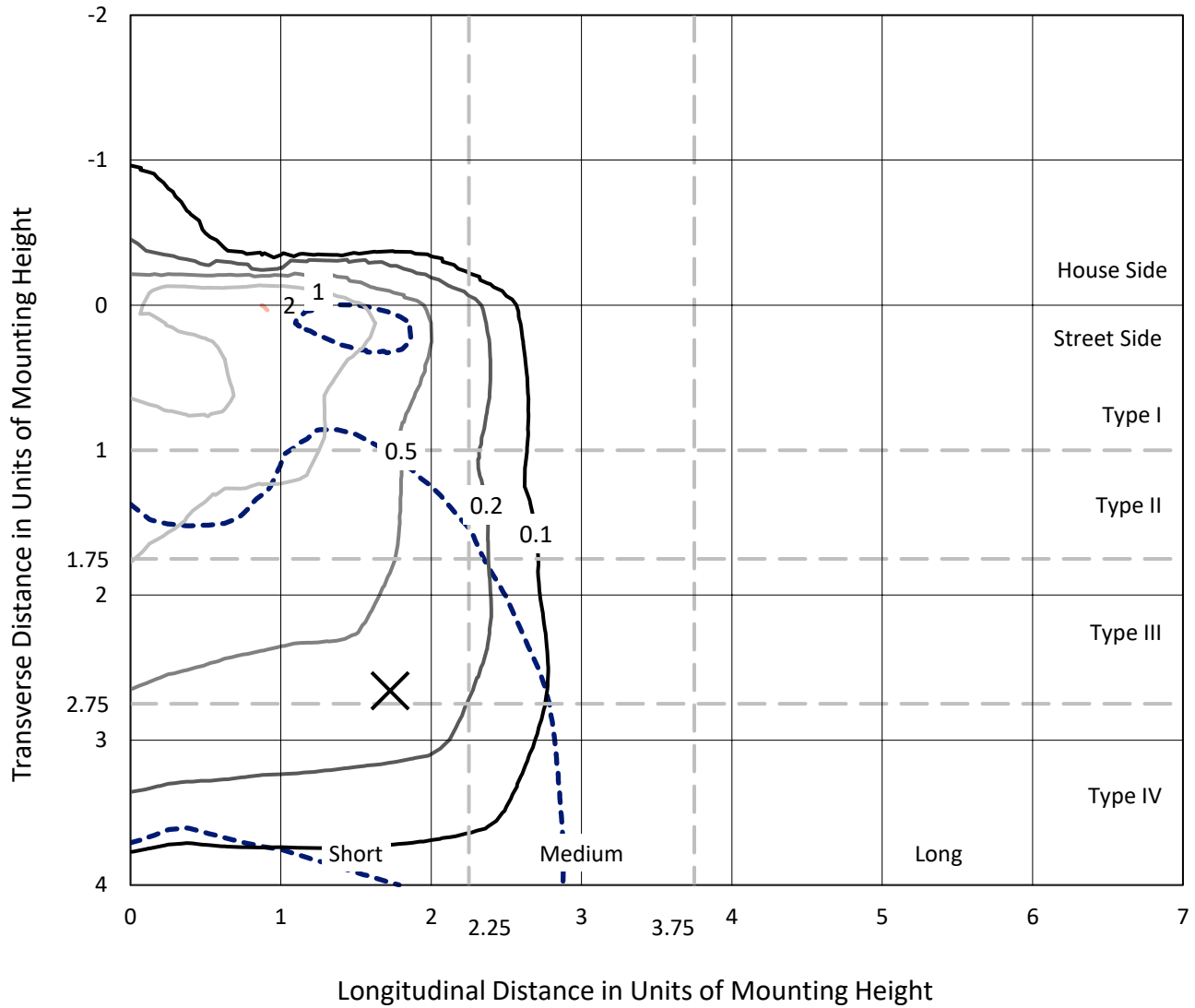
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P367695
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Iso-Footcandle Lines of Horizontal Illumination

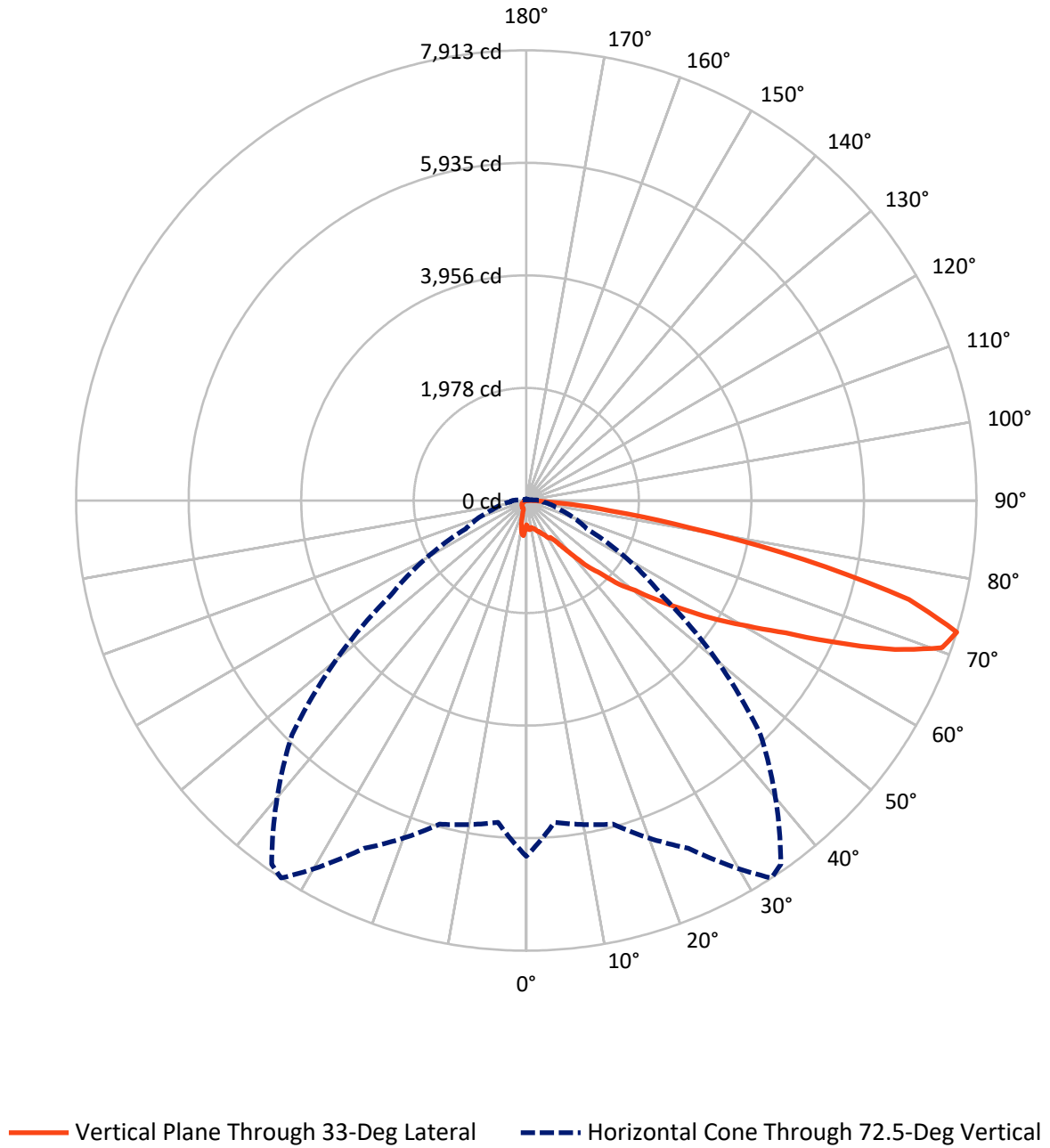
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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CATALOG NUMBER: PMM-SA3A-730-U-T4FT-HSS

Luminous Intensity Polar Plot



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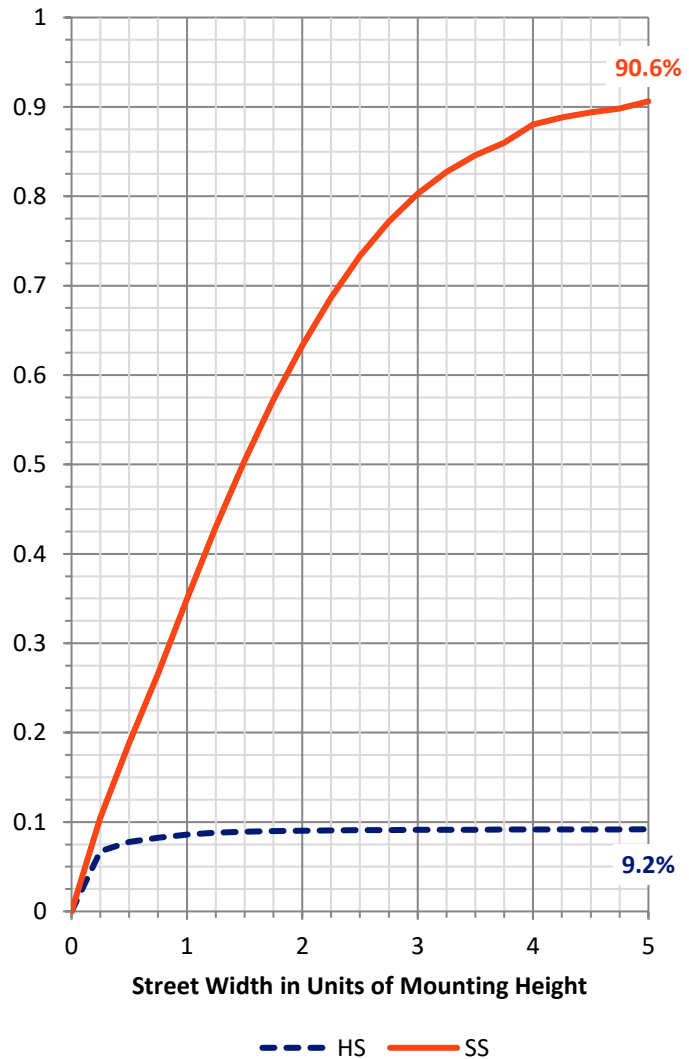
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 739.7 | 0.0 | 739.7 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 7260.3 | 0.0 | 7260.3 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 8000.0 | 0.0 | 8000.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.1 | 0.7 |
| 10°-20° | 164.1 | 2.1 |
| 20°-30° | 278.3 | 3.5 |
| 30°-40° | 509.4 | 6.4 |
| 40°-50° | 1075.0 | 13.4 |
| 50°-60° | 1798.6 | 22.5 |
| 60°-70° | 2407.5 | 30.1 |
| 70°-80° | 1572.6 | 19.7 |
| 80°-90° | 139.4 | 1.7 |
| 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° | 8000.0 | 100.0 |
| 0°-180° | 8000.0 | 100.0 |

Coefficient of Utilization



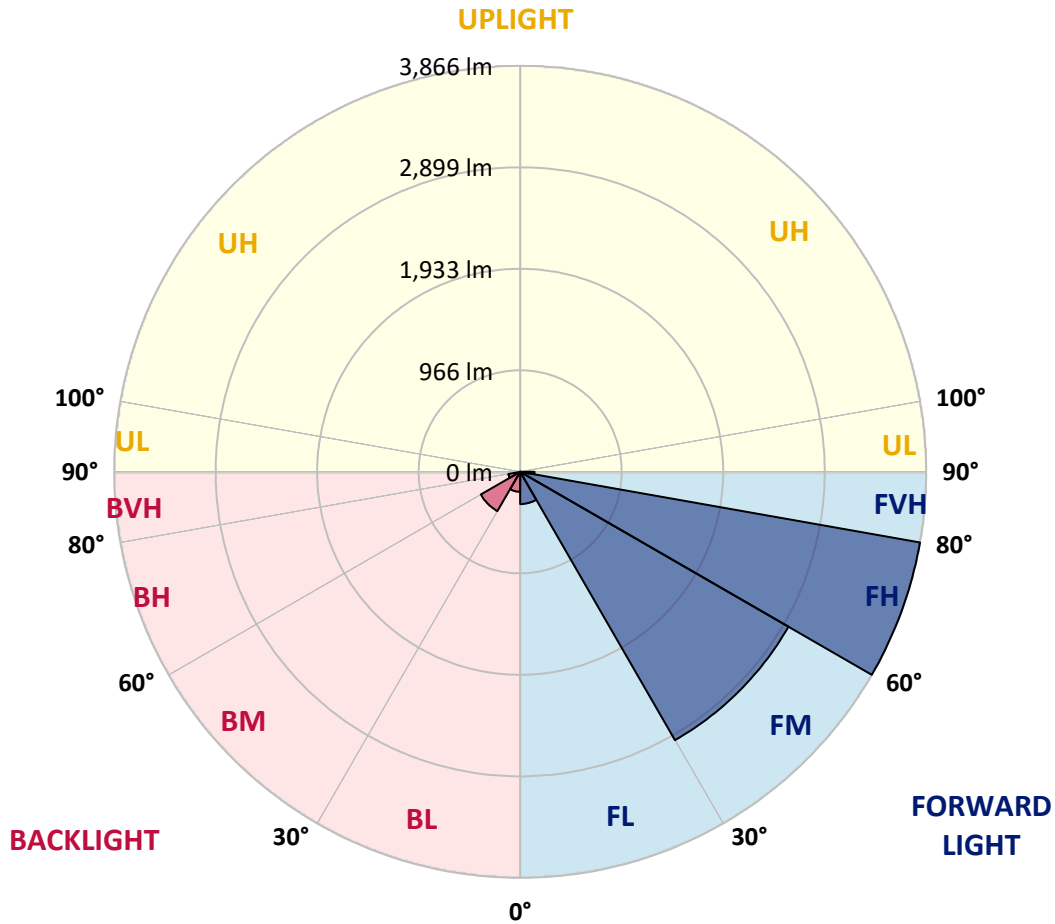
REPORT NUMBER: P367695
 CATALOG NUMBER: PMM-SA3A-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 307.1 | 3.8 | | | |
| FM (30°-60°) | 2950.5 | 36.9 | | | |
| FH (60°-80°) | 3865.9 | 48.3 | | | G2/5000 |
| FVH (80°-90°) | 136.7 | 1.7 | | | G2/225 |
| BL (0°-30°) | 190.4 | 2.4 | B1/500 | | |
| BM (30°-60°) | 432.4 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 114.2 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 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 IV Short





REPORT NUMBER: P367695

CATALOG NUMBER: PMM-SA3A-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 |
| 2.5° | 507.2 | 487.7 | 459.3 | 461.0 | 465.9 | 469.9 | 480.6 | 476.1 | 467.7 | 467.3 | 507.2 |
| 5° | 537.4 | 515.7 | 513.9 | 516.6 | 515.2 | 522.3 | 513.5 | 542.3 | 566.8 | 596.1 | 643.1 |
| 7.5° | 522.8 | 512.6 | 499.7 | 513.0 | 512.6 | 509.0 | 514.8 | 573.4 | 632.5 | 669.8 | 747.5 |
| 10° | 480.6 | 469.0 | 478.8 | 483.2 | 480.1 | 495.7 | 534.3 | 582.3 | 652.9 | 731.1 | 768.8 |
| 12.5° | 468.6 | 475.7 | 479.3 | 479.3 | 509.0 | 517.0 | 576.1 | 621.4 | 705.3 | 767.1 | 876.8 |
| 15° | 515.2 | 529.0 | 504.6 | 499.2 | 508.6 | 513.0 | 578.7 | 633.4 | 740.9 | 853.7 | 945.6 |
| 17.5° | 589.4 | 588.5 | 550.8 | 529.9 | 544.5 | 555.2 | 591.6 | 655.6 | 718.7 | 921.6 | 1054.9 |
| 20° | 640.5 | 641.4 | 573.4 | 529.9 | 578.3 | 584.5 | 624.9 | 676.0 | 725.8 | 955.8 | 1126.4 |
| 22.5° | 706.2 | 682.7 | 607.6 | 565.4 | 598.3 | 604.1 | 648.5 | 688.9 | 762.2 | 951.8 | 1217.9 |
| 25° | 760.0 | 744.9 | 650.3 | 620.9 | 650.3 | 642.3 | 682.7 | 743.5 | 801.3 | 1015.4 | 1271.6 |
| 27.5° | 843.5 | 817.7 | 680.5 | 685.8 | 684.0 | 689.8 | 699.1 | 792.4 | 870.1 | 1018.5 | 1396.0 |
| 30° | 921.2 | 906.1 | 748.0 | 748.0 | 765.3 | 754.2 | 760.8 | 873.7 | 936.7 | 1090.4 | 1535.9 |
| 32.5° | 1001.6 | 1002.5 | 827.5 | 785.3 | 771.5 | 817.3 | 862.1 | 913.2 | 1017.1 | 1213.9 | 1750.0 |
| 35° | 1214.3 | 1196.6 | 979.8 | 874.6 | 863.5 | 860.8 | 932.7 | 1070.9 | 1159.7 | 1374.7 | 2038.3 |
| 37.5° | 1643.0 | 1581.2 | 1307.6 | 1077.1 | 1035.3 | 1021.1 | 1102.9 | 1244.5 | 1332.9 | 1611.0 | 2514.8 |
| 40° | 2082.7 | 1969.4 | 1665.6 | 1405.8 | 1270.3 | 1209.0 | 1304.1 | 1424.4 | 1581.7 | 1872.1 | 2955.9 |
| 42.5° | 2468.7 | 2328.7 | 1935.2 | 1760.2 | 1583.9 | 1557.2 | 1468.0 | 1663.8 | 1937.0 | 2252.3 | 3388.1 |
| 45° | 2844.9 | 2569.5 | 2175.1 | 2036.5 | 1822.4 | 1837.5 | 1807.3 | 1977.0 | 2306.1 | 2669.0 | 3771.4 |
| 47.5° | 3103.8 | 2856.4 | 2469.1 | 2289.2 | 2203.5 | 2115.1 | 2354.9 | 2531.3 | 2634.8 | 2933.7 | 4102.7 |
| 50° | 3382.7 | 3132.2 | 2721.8 | 2596.1 | 2483.3 | 2572.6 | 2883.9 | 2907.5 | 2899.0 | 3180.6 | 4328.4 |
| 52.5° | 3743.0 | 3447.6 | 3011.9 | 2869.7 | 2933.7 | 3022.5 | 3381.8 | 3386.3 | 3134.0 | 3388.5 | 4490.9 |
| 55° | 4076.1 | 3748.7 | 3398.3 | 3264.1 | 3397.8 | 3472.9 | 3871.3 | 3725.2 | 3270.8 | 3529.8 | 4570.9 |
| 57.5° | 4545.6 | 4166.7 | 3912.2 | 3675.9 | 3946.8 | 3874.9 | 4301.7 | 4084.5 | 3424.5 | 3623.5 | 4541.6 |
| 60° | 5139.0 | 4693.0 | 4438.1 | 4188.0 | 4478.5 | 4527.3 | 4721.9 | 4264.0 | 3484.0 | 3654.1 | 4365.2 |
| 62.5° | 5742.6 | 5294.0 | 4958.6 | 4789.0 | 5118.5 | 5279.3 | 5111.0 | 4353.2 | 3412.5 | 3594.2 | 3965.9 |
| 65° | 6491.4 | 5917.1 | 5525.4 | 5425.9 | 6036.6 | 6272.9 | 5571.1 | 4375.0 | 3274.4 | 3264.1 | 3188.6 |
| 67.5° | 7004.4 | 6445.2 | 6085.9 | 6252.5 | 6990.2 | 7009.3 | 5984.2 | 4381.7 | 2809.3 | 2555.7 | 2092.9 |
| 70° | 7126.1 | 6527.4 | 6366.6 | 6857.0 | 7751.1 | 7510.8 | 6117.4 | 4044.1 | 2083.6 | 1516.8 | 956.7 |
| 72.5° | 6255.6 | 5679.1 | 5888.3 | 6742.8 | 7912.7 | 7802.6 | 5823.0 | 2917.7 | 1173.0 | 606.7 | 293.6 |
| 75° | 3837.1 | 3488.4 | 4417.2 | 5716.8 | 6945.8 | 6874.7 | 4542.9 | 1507.5 | 472.6 | 242.5 | 109.7 |
| 77.5° | 1668.7 | 1549.7 | 2305.2 | 3793.1 | 4991.0 | 4927.5 | 2661.9 | 555.2 | 244.3 | 170.6 | 55.5 |
| 80° | 552.1 | 535.7 | 873.2 | 1796.2 | 2923.5 | 2867.5 | 1121.5 | 231.0 | 174.1 | 136.8 | 31.1 |
| 82.5° | 131.0 | 130.1 | 304.7 | 826.6 | 1489.3 | 1442.6 | 344.2 | 127.5 | 126.1 | 107.9 | 16.4 |
| 85° | 32.9 | 33.8 | 84.4 | 338.0 | 604.9 | 533.4 | 89.7 | 63.5 | 88.8 | 73.3 | 8.4 |
| 87.5° | 0.0 | 0.0 | 21.8 | 48.4 | 91.5 | 57.3 | 9.8 | 16.9 | 24.9 | 26.2 | 4.4 |
| 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: P367695

CATALOG NUMBER: PMM-SA3A-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 | 425.5 |
| 2.5° | 516.1 | 511.2 | 471.3 | 481.0 | 496.1 | 494.8 | 504.6 | 497.0 | 490.4 | 523.2 | 520.1 |
| 5° | 656.5 | 629.8 | 617.4 | 634.7 | 625.4 | 603.6 | 621.8 | 618.7 | 613.4 | 624.5 | 632.9 |
| 7.5° | 761.7 | 737.3 | 726.2 | 689.8 | 636.9 | 595.2 | 601.8 | 586.3 | 571.6 | 589.0 | 606.7 |
| 10° | 796.4 | 783.1 | 781.7 | 710.7 | 660.9 | 600.5 | 529.0 | 467.3 | 450.8 | 429.1 | 438.8 |
| 12.5° | 890.5 | 898.5 | 848.3 | 765.3 | 669.4 | 553.4 | 426.4 | 338.9 | 303.4 | 280.3 | 281.6 |
| 15° | 967.8 | 995.8 | 923.0 | 773.7 | 589.0 | 422.0 | 283.8 | 205.2 | 183.0 | 177.2 | 175.4 |
| 17.5° | 1082.9 | 1110.0 | 946.1 | 713.8 | 474.8 | 286.0 | 182.6 | 159.9 | 161.2 | 165.2 | 164.3 |
| 20° | 1168.1 | 1164.1 | 926.1 | 607.6 | 350.0 | 187.4 | 152.8 | 149.7 | 156.8 | 168.3 | 165.7 |
| 22.5° | 1250.3 | 1222.8 | 913.6 | 509.5 | 226.5 | 150.6 | 147.5 | 147.0 | 153.7 | 164.8 | 167.9 |
| 25° | 1308.9 | 1313.4 | 892.8 | 398.9 | 164.8 | 139.9 | 142.6 | 146.6 | 153.2 | 165.2 | 163.5 |
| 27.5° | 1476.8 | 1352.5 | 805.7 | 289.6 | 139.0 | 134.1 | 140.8 | 148.8 | 151.0 | 166.1 | 166.6 |
| 30° | 1585.7 | 1499.9 | 748.9 | 195.0 | 128.4 | 123.9 | 137.2 | 147.9 | 150.6 | 170.1 | 171.4 |
| 32.5° | 1775.3 | 1563.4 | 683.1 | 144.8 | 119.5 | 120.8 | 129.3 | 143.5 | 155.9 | 176.8 | 177.7 |
| 35° | 2011.2 | 1767.3 | 564.1 | 130.1 | 116.4 | 114.1 | 118.1 | 134.6 | 155.0 | 177.7 | 182.1 |
| 37.5° | 2460.2 | 1889.5 | 447.3 | 126.1 | 116.4 | 112.4 | 116.4 | 126.1 | 152.3 | 186.5 | 195.9 |
| 40° | 2760.9 | 2138.2 | 322.5 | 125.3 | 114.1 | 110.6 | 111.9 | 121.7 | 144.8 | 181.2 | 195.0 |
| 42.5° | 3131.3 | 2243.0 | 237.6 | 123.0 | 111.9 | 106.6 | 107.5 | 119.9 | 137.2 | 170.1 | 180.3 |
| 45° | 3434.7 | 2319.4 | 187.0 | 122.1 | 106.6 | 104.8 | 106.6 | 118.6 | 130.1 | 146.1 | 155.5 |
| 47.5° | 3665.2 | 2408.2 | 150.1 | 116.4 | 105.3 | 104.8 | 102.6 | 111.0 | 118.1 | 122.1 | 128.4 |
| 50° | 3834.0 | 2388.3 | 124.4 | 107.5 | 100.8 | 103.5 | 99.5 | 100.8 | 102.6 | 100.4 | 107.5 |
| 52.5° | 3937.5 | 2316.3 | 103.5 | 96.8 | 95.5 | 97.7 | 92.8 | 88.8 | 85.7 | 83.9 | 88.4 |
| 55° | 3975.2 | 2172.0 | 87.9 | 83.1 | 86.2 | 87.1 | 83.1 | 76.0 | 70.6 | 68.0 | 71.5 |
| 57.5° | 3903.7 | 1952.1 | 76.4 | 68.8 | 76.0 | 76.0 | 70.6 | 63.1 | 56.9 | 52.4 | 56.0 |
| 60° | 3722.5 | 1709.1 | 68.0 | 57.3 | 64.8 | 65.3 | 59.1 | 51.1 | 46.2 | 41.8 | 44.0 |
| 62.5° | 3385.0 | 1444.4 | 59.5 | 49.7 | 56.0 | 56.4 | 48.9 | 41.3 | 37.8 | 32.9 | 34.6 |
| 65° | 2709.8 | 1104.6 | 50.6 | 44.0 | 48.4 | 47.1 | 40.4 | 35.1 | 30.6 | 26.2 | 27.1 |
| 67.5° | 1758.9 | 681.8 | 44.0 | 40.0 | 40.9 | 39.5 | 34.2 | 30.6 | 25.8 | 22.2 | 22.7 |
| 70° | 787.5 | 293.6 | 38.6 | 36.0 | 35.5 | 33.3 | 28.9 | 28.4 | 25.3 | 22.2 | 22.2 |
| 72.5° | 243.0 | 110.6 | 33.3 | 32.4 | 30.6 | 28.0 | 25.3 | 27.1 | 24.9 | 21.3 | 20.9 |
| 75° | 95.9 | 50.6 | 27.5 | 27.5 | 26.6 | 23.1 | 22.7 | 24.4 | 23.1 | 19.5 | 18.7 |
| 77.5° | 50.2 | 32.0 | 22.7 | 23.5 | 23.1 | 17.8 | 20.4 | 22.2 | 21.3 | 16.4 | 13.8 |
| 80° | 29.8 | 19.5 | 16.9 | 19.1 | 18.7 | 12.4 | 15.5 | 14.2 | 10.2 | 4.9 | 1.3 |
| 82.5° | 16.4 | 8.9 | 7.6 | 11.1 | 11.1 | 4.4 | 8.0 | 7.1 | 4.0 | 0.0 | 0.0 |
| 85° | 8.0 | 6.2 | 5.8 | 6.2 | 4.4 | 1.3 | 4.0 | 4.0 | 2.2 | 0.0 | 0.0 |
| 87.5° | 4.0 | 3.6 | 2.7 | 2.2 | 1.8 | 0.0 | 1.3 | 1.8 | 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)