

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: P368126

Luminaire Tested: **PMM-SA3D-750-U-SL4**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-20)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3D-750-U-SL4
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19389 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

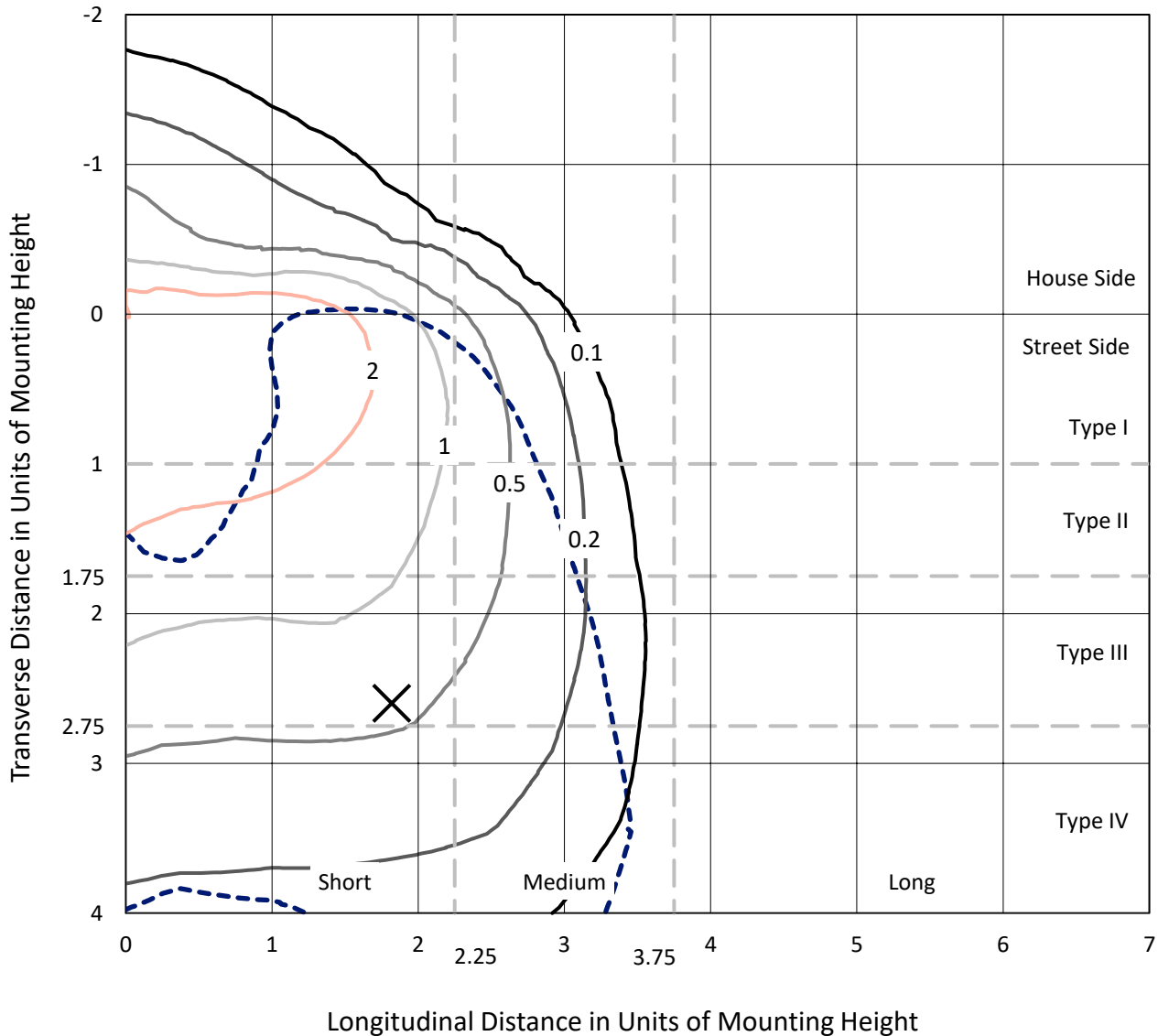
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

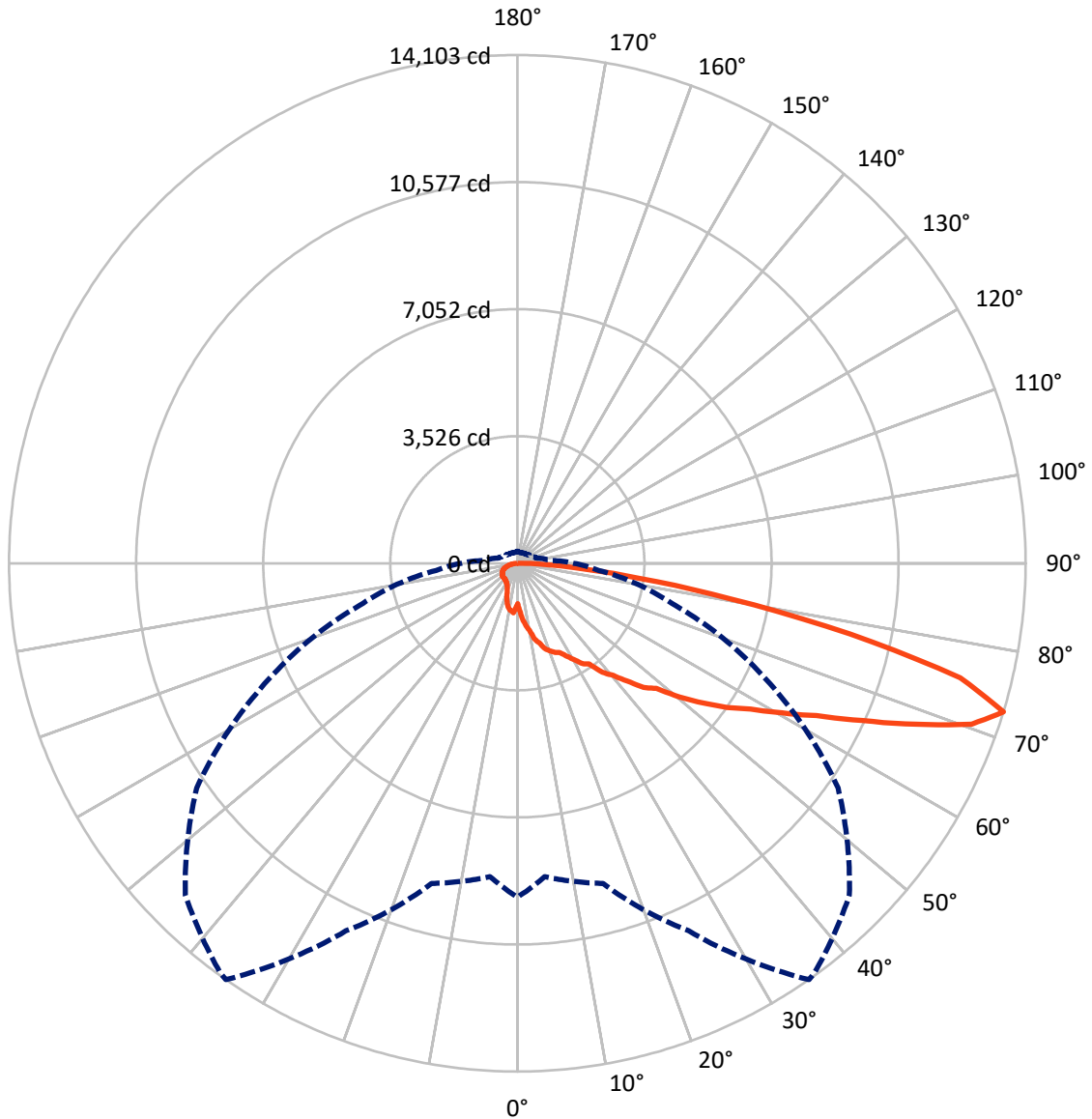
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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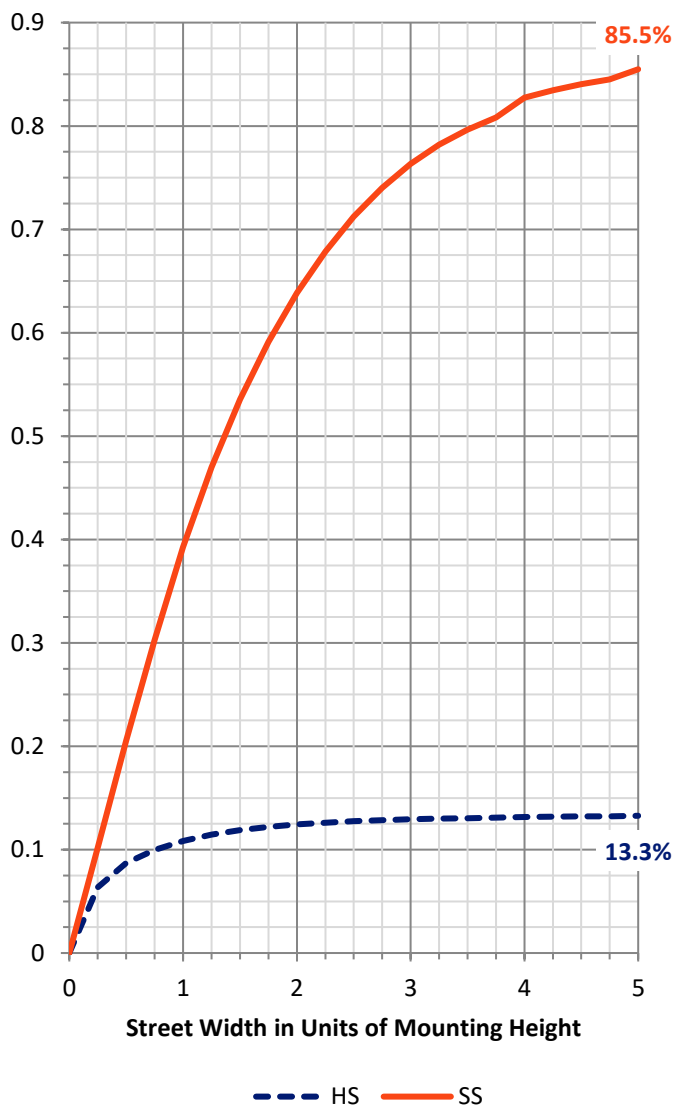
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2601.9 | 0.0 | 2601.9 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 16787.1 | 0.0 | 16787.1 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 19389.0 | 0.0 | 19389.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 148.9 | 0.8 |
| 10°-20° | 524.6 | 2.7 |
| 20°-30° | 911.5 | 4.7 |
| 30°-40° | 1523.4 | 7.9 |
| 40°-50° | 2644.0 | 13.6 |
| 50°-60° | 3997.1 | 20.6 |
| 60°-70° | 5178.2 | 26.7 |
| 70°-80° | 3820.9 | 19.7 |
| 80°-90° | 640.4 | 3.3 |
| 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° | 19389.0 | 100.0 |
| 0°-180° | 19389.0 | 100.0 |

Coefficient of Utilization



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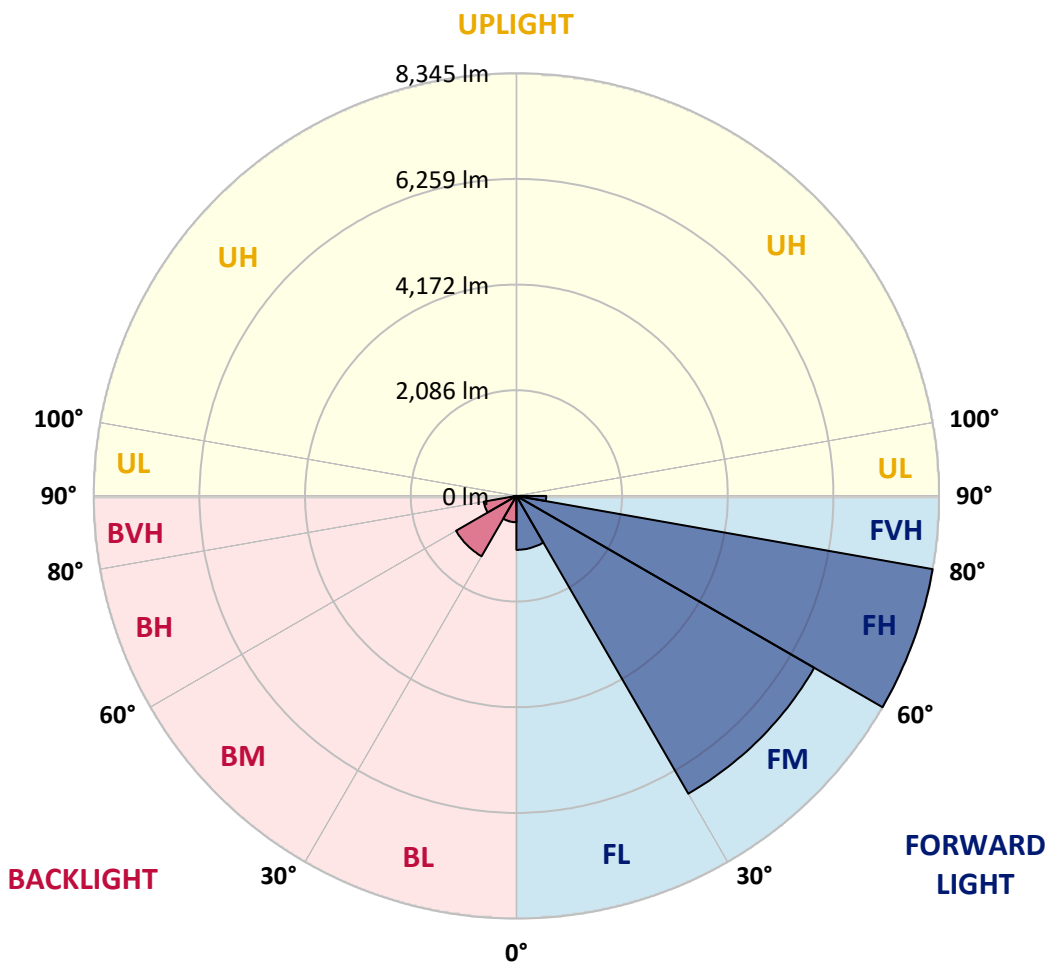
CATALOG NUMBER: PMM-SA3D-750-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1064.9 | 5.5 | | | |
| FM (30°-60°) | 6789.3 | 35.0 | | | |
| FH (60°-80°) | 8344.9 | 43.0 | | | G4/12000 |
| FVH (80°-90°) | 588.0 | 3.0 | | | G4/750 |
| BL (0°-30°) | 520.1 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 1375.2 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 654.3 | 3.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 52.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 |
| 2.5° | 1397.7 | 1330.7 | 1272.8 | 1270.3 | 1324.1 | 1344.8 | 1336.5 | 1318.3 | 1296.8 | 1251.3 | 1350.6 |
| 5° | 1751.1 | 1655.1 | 1636.9 | 1615.4 | 1566.5 | 1579.8 | 1500.3 | 1560.8 | 1579.8 | 1623.6 | 1689.9 |
| 7.5° | 1959.6 | 1903.4 | 1859.5 | 1841.3 | 1756.9 | 1747.0 | 1688.2 | 1774.3 | 1810.7 | 1804.9 | 1903.4 |
| 10° | 2041.6 | 1990.3 | 1993.6 | 1934.0 | 1906.7 | 1918.3 | 1924.9 | 1926.5 | 1948.9 | 1967.1 | 1917.4 |
| 12.5° | 2083.8 | 2103.6 | 2176.4 | 2135.9 | 2170.7 | 2184.7 | 2254.2 | 2183.1 | 2185.6 | 2092.0 | 2143.3 |
| 15° | 2296.4 | 2346.1 | 2303.9 | 2302.2 | 2291.5 | 2314.6 | 2374.2 | 2326.2 | 2363.5 | 2333.7 | 2267.5 |
| 17.5° | 2553.0 | 2567.9 | 2486.8 | 2453.7 | 2496.7 | 2489.3 | 2474.4 | 2481.8 | 2389.1 | 2561.3 | 2480.2 |
| 20° | 2631.6 | 2690.4 | 2583.6 | 2453.7 | 2596.0 | 2615.0 | 2611.7 | 2579.5 | 2420.6 | 2668.8 | 2590.2 |
| 22.5° | 2860.0 | 2780.6 | 2696.1 | 2613.4 | 2686.2 | 2697.0 | 2678.8 | 2601.8 | 2548.8 | 2643.2 | 2705.3 |
| 25° | 2963.4 | 2944.4 | 2836.8 | 2826.9 | 2746.6 | 2708.6 | 2740.0 | 2717.7 | 2665.5 | 2833.5 | 2764.8 |
| 27.5° | 3200.1 | 3177.8 | 2930.3 | 3032.1 | 2915.4 | 2905.5 | 2739.2 | 2813.7 | 2865.8 | 2853.4 | 2956.0 |
| 30° | 3468.2 | 3493.9 | 3132.3 | 3234.1 | 3099.2 | 3081.0 | 2913.8 | 3008.1 | 3043.7 | 3055.3 | 3183.6 |
| 32.5° | 3766.2 | 3836.5 | 3477.4 | 3393.8 | 3321.8 | 3334.2 | 3192.7 | 3020.5 | 3158.7 | 3429.4 | 3484.8 |
| 35° | 4088.9 | 4117.9 | 3741.3 | 3615.6 | 3427.7 | 3414.5 | 3416.9 | 3438.5 | 3578.3 | 3887.0 | 3930.0 |
| 37.5° | 4685.6 | 4551.5 | 4221.3 | 3902.7 | 3839.8 | 3716.5 | 3800.1 | 3866.3 | 4006.2 | 4479.5 | 4659.9 |
| 40° | 5053.0 | 4953.7 | 4450.5 | 4266.0 | 4092.2 | 4103.8 | 4260.2 | 4259.4 | 4589.6 | 5077.8 | 5353.4 |
| 42.5° | 5393.1 | 5284.7 | 4810.5 | 4625.2 | 4460.5 | 4501.0 | 4545.7 | 4624.3 | 5257.4 | 6044.4 | 6170.2 |
| 45° | 5667.0 | 5429.5 | 5088.6 | 5047.2 | 4911.5 | 4857.7 | 5047.2 | 5173.0 | 6056.0 | 6826.4 | 6899.3 |
| 47.5° | 5853.2 | 5657.9 | 5324.4 | 5288.0 | 5187.9 | 5319.5 | 5836.7 | 5917.8 | 6675.0 | 7611.8 | 7606.0 |
| 50° | 6136.3 | 5869.0 | 5567.7 | 5548.7 | 5830.9 | 5901.2 | 6531.8 | 6523.6 | 7277.4 | 8263.9 | 8127.3 |
| 52.5° | 6462.3 | 6125.5 | 5798.6 | 6003.0 | 6433.4 | 6468.1 | 7015.1 | 7237.7 | 7935.3 | 8892.8 | 8536.1 |
| 55° | 6837.2 | 6460.7 | 6144.5 | 6417.6 | 7058.1 | 6955.5 | 7509.2 | 8052.9 | 8758.8 | 9555.7 | 8831.6 |
| 57.5° | 7301.4 | 6844.6 | 6588.9 | 7004.4 | 7628.3 | 7719.4 | 8216.7 | 8901.1 | 9421.6 | 9967.8 | 9046.7 |
| 60° | 7791.4 | 7255.1 | 7020.9 | 7416.5 | 8426.9 | 8531.2 | 9017.8 | 9606.2 | 10164.8 | 10355.9 | 9006.2 |
| 62.5° | 8258.9 | 7678.8 | 7467.0 | 7955.2 | 9312.4 | 9570.6 | 9929.7 | 10304.6 | 10782.9 | 10450.3 | 8515.5 |
| 65° | 8779.4 | 8198.5 | 8065.3 | 8797.7 | 10513.2 | 10769.7 | 11238.9 | 11126.4 | 10994.8 | 10115.9 | 7703.6 |
| 67.5° | 9330.6 | 8740.6 | 8765.4 | 9775.0 | 11929.1 | 11973.0 | 12693.7 | 11945.6 | 10745.7 | 9230.5 | 6340.7 |
| 70° | 9626.9 | 9022.7 | 9278.5 | 10816.9 | 13369.9 | 13307.0 | 13454.3 | 12165.8 | 9730.3 | 7296.5 | 4370.3 |
| 72.5° | 9267.7 | 8729.0 | 9197.4 | 11255.5 | 14103.1 | 14035.2 | 13027.2 | 10859.1 | 7607.6 | 4537.4 | 2265.8 |
| 75° | 7846.8 | 7327.1 | 8043.8 | 10033.2 | 12696.2 | 12759.1 | 11086.6 | 8075.2 | 4355.4 | 1824.7 | 940.9 |
| 77.5° | 5331.9 | 5063.8 | 5677.8 | 7478.5 | 9430.7 | 9648.4 | 8225.8 | 4722.0 | 1828.9 | 755.6 | 569.4 |
| 80° | 2817.8 | 2690.4 | 3143.9 | 4308.2 | 5971.6 | 6133.8 | 4837.0 | 2351.9 | 936.8 | 489.1 | 406.3 |
| 82.5° | 1531.0 | 1477.2 | 1720.5 | 2215.3 | 3392.9 | 3534.5 | 2508.3 | 1562.4 | 631.4 | 306.2 | 248.3 |
| 85° | 1028.6 | 1008.0 | 1169.3 | 1190.0 | 1604.6 | 1651.0 | 1314.1 | 1203.3 | 379.0 | 149.8 | 163.9 |
| 87.5° | 514.7 | 494.0 | 615.7 | 543.7 | 612.4 | 613.2 | 602.5 | 768.0 | 96.0 | 49.7 | 29.8 |
| 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-SA3D-750-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 |
| 2.5° | 1352.2 | 1323.2 | 1223.1 | 1222.3 | 1237.2 | 1227.3 | 1234.7 | 1194.2 | 1176.8 | 1256.2 | 1252.1 |
| 5° | 1680.7 | 1593.9 | 1510.3 | 1481.3 | 1447.4 | 1373.7 | 1377.9 | 1378.7 | 1366.3 | 1413.5 | 1416.8 |
| 7.5° | 1873.6 | 1769.3 | 1692.3 | 1538.4 | 1417.6 | 1323.2 | 1335.7 | 1349.7 | 1335.7 | 1398.6 | 1421.7 |
| 10° | 1901.7 | 1818.9 | 1727.1 | 1555.8 | 1475.5 | 1390.3 | 1304.2 | 1228.1 | 1219.0 | 1190.0 | 1199.1 |
| 12.5° | 2068.9 | 2000.2 | 1808.2 | 1620.3 | 1526.8 | 1396.1 | 1238.8 | 1151.9 | 1079.1 | 1091.5 | 1068.4 |
| 15° | 2206.2 | 2157.4 | 1927.4 | 1681.6 | 1458.1 | 1295.9 | 1128.8 | 1009.6 | 944.2 | 936.8 | 913.6 |
| 17.5° | 2392.4 | 2322.9 | 1938.1 | 1639.4 | 1369.6 | 1175.1 | 986.4 | 851.5 | 823.4 | 811.8 | 800.2 |
| 20° | 2481.8 | 2356.9 | 1899.2 | 1507.0 | 1266.1 | 1031.1 | 845.8 | 729.9 | 721.6 | 742.3 | 738.2 |
| 22.5° | 2559.6 | 2385.0 | 1864.5 | 1426.7 | 1104.8 | 885.5 | 749.8 | 673.6 | 664.5 | 691.0 | 696.0 |
| 25° | 2605.1 | 2465.3 | 1826.4 | 1344.8 | 1004.6 | 777.1 | 677.8 | 634.7 | 636.4 | 671.1 | 667.0 |
| 27.5° | 2810.3 | 2493.4 | 1730.4 | 1247.9 | 889.6 | 696.8 | 643.0 | 620.7 | 611.6 | 659.6 | 663.7 |
| 30° | 2939.4 | 2677.1 | 1708.9 | 1145.3 | 804.4 | 638.0 | 611.6 | 602.5 | 600.8 | 658.7 | 662.9 |
| 32.5° | 3179.4 | 2738.4 | 1718.8 | 1033.6 | 727.4 | 619.8 | 588.4 | 587.6 | 604.1 | 659.6 | 666.2 |
| 35° | 3512.1 | 2996.5 | 1670.8 | 969.9 | 685.2 | 591.7 | 570.2 | 576.8 | 604.9 | 665.3 | 674.5 |
| 37.5° | 4160.9 | 3239.8 | 1685.7 | 910.3 | 671.1 | 582.6 | 565.2 | 569.4 | 614.9 | 680.2 | 705.1 |
| 40° | 4674.8 | 3680.9 | 1662.5 | 880.5 | 652.1 | 580.9 | 554.5 | 571.0 | 614.0 | 688.5 | 710.9 |
| 42.5° | 5419.6 | 4032.6 | 1665.0 | 850.7 | 651.3 | 574.3 | 552.8 | 572.7 | 612.4 | 681.1 | 711.7 |
| 45° | 6058.5 | 4347.9 | 1700.6 | 833.3 | 643.0 | 585.1 | 550.3 | 575.1 | 601.6 | 654.6 | 688.5 |
| 47.5° | 6582.3 | 4699.6 | 1737.0 | 816.8 | 639.7 | 595.0 | 547.8 | 557.8 | 583.4 | 624.8 | 655.4 |
| 50° | 7009.3 | 4947.1 | 1783.4 | 813.5 | 639.7 | 590.0 | 541.2 | 540.4 | 561.9 | 595.0 | 624.0 |
| 52.5° | 7342.0 | 5121.7 | 1814.8 | 817.6 | 639.7 | 571.0 | 532.9 | 526.3 | 539.6 | 563.6 | 592.5 |
| 55° | 7582.8 | 5175.5 | 1789.2 | 828.4 | 638.9 | 553.6 | 518.0 | 512.3 | 518.9 | 535.4 | 562.7 |
| 57.5° | 7679.6 | 5034.0 | 1636.1 | 809.3 | 638.9 | 541.2 | 499.8 | 493.2 | 499.8 | 512.3 | 539.6 |
| 60° | 7437.2 | 4578.8 | 1415.1 | 760.5 | 626.5 | 524.7 | 479.1 | 475.0 | 484.9 | 495.7 | 522.2 |
| 62.5° | 6828.9 | 3973.9 | 1179.3 | 702.6 | 600.8 | 510.6 | 459.3 | 460.1 | 475.8 | 490.7 | 517.2 |
| 65° | 5883.9 | 3242.3 | 983.1 | 643.8 | 568.5 | 488.3 | 438.6 | 444.4 | 466.7 | 486.6 | 513.1 |
| 67.5° | 4630.1 | 2402.4 | 827.5 | 586.7 | 523.0 | 451.8 | 415.4 | 417.1 | 432.8 | 451.8 | 477.5 |
| 70° | 3095.0 | 1528.5 | 680.2 | 519.7 | 463.4 | 404.7 | 379.8 | 374.1 | 369.9 | 386.5 | 408.8 |
| 72.5° | 1569.9 | 902.9 | 558.6 | 444.4 | 398.9 | 353.4 | 334.3 | 319.4 | 307.8 | 317.8 | 335.2 |
| 75° | 822.6 | 631.4 | 451.0 | 369.1 | 329.4 | 300.4 | 286.3 | 266.5 | 258.2 | 264.0 | 276.4 |
| 77.5° | 581.8 | 494.0 | 364.9 | 292.1 | 268.1 | 238.3 | 240.8 | 220.1 | 213.5 | 216.8 | 230.1 |
| 80° | 446.9 | 391.4 | 280.5 | 221.0 | 206.9 | 177.9 | 186.2 | 173.8 | 165.5 | 163.9 | 173.8 |
| 82.5° | 304.5 | 294.6 | 199.4 | 154.8 | 144.8 | 124.1 | 135.7 | 130.8 | 120.0 | 113.4 | 118.3 |
| 85° | 205.2 | 195.3 | 121.6 | 89.4 | 85.2 | 64.5 | 82.8 | 79.4 | 70.3 | 60.4 | 61.2 |
| 87.5° | 35.6 | 65.4 | 34.8 | 22.3 | 20.7 | 7.4 | 19.0 | 18.2 | 16.6 | 8.3 | 6.6 |
| 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)