

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: P367631

Luminaire Tested: **PMM-SA2D-760-U-T4W-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367631
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-SA2D-760-U-T4W-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) 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: 10168 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

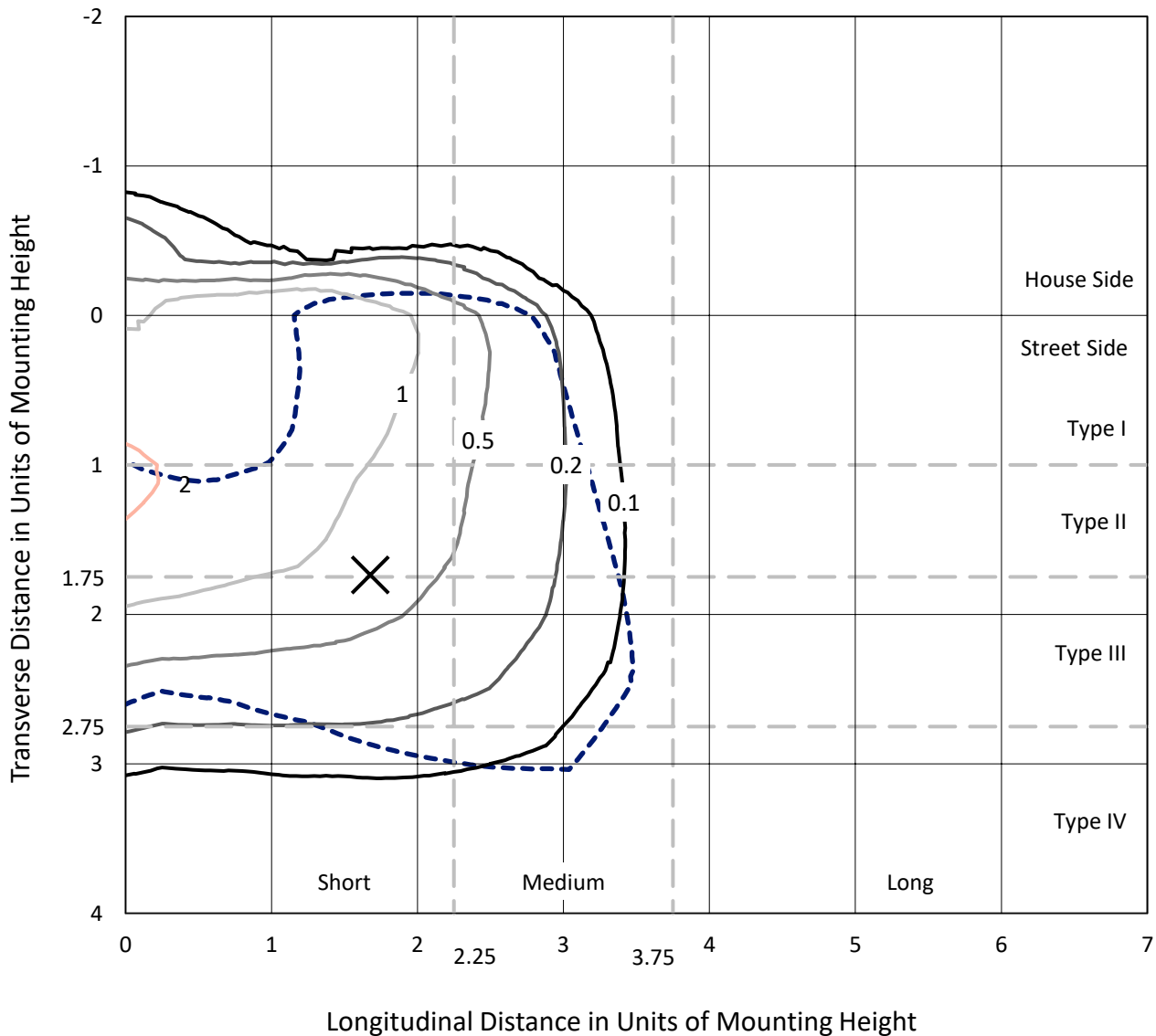
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P367631
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Iso-Footcandle Lines of Horizontal Illumination

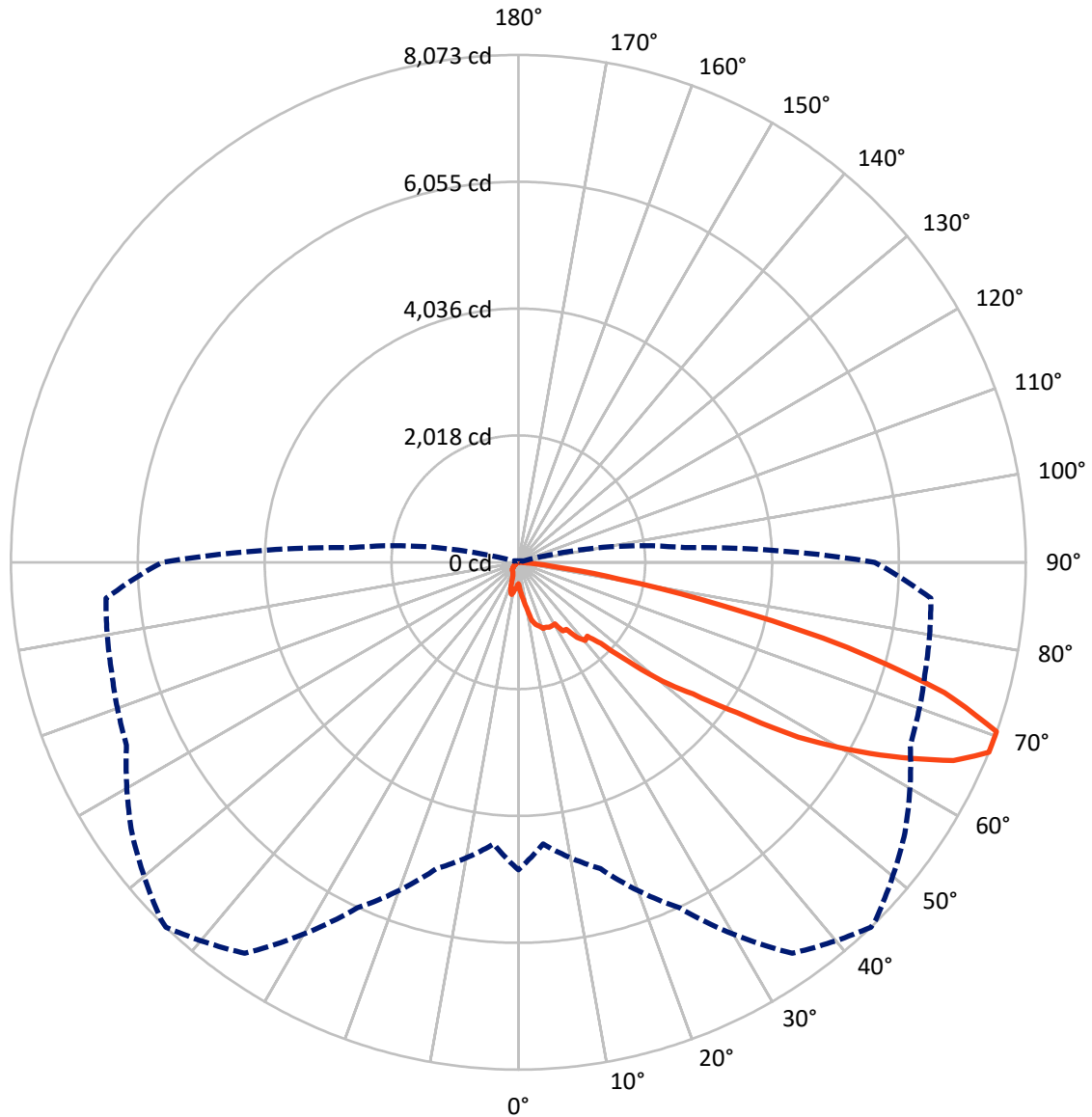
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P367631
CATALOG NUMBER: PMM-SA2D-760-U-T4W-HSS

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: PMM-SA2D-760-U-T4W-HSS

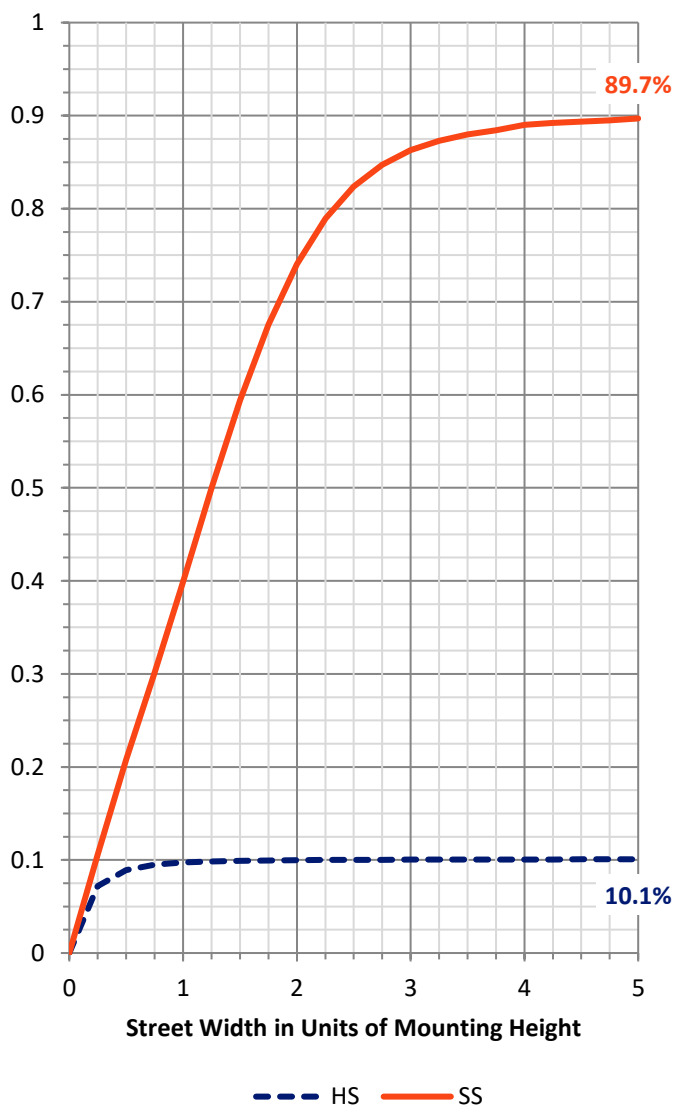
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1032.9 | 0.0 | 1032.9 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 9135.1 | 0.0 | 9135.1 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 10168.0 | 0.0 | 10168.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 50.8 | 0.5 |
| 10°-20° | 212.6 | 2.1 |
| 20°-30° | 376.6 | 3.7 |
| 30°-40° | 612.1 | 6.0 |
| 40°-50° | 1224.9 | 12.0 |
| 50°-60° | 2512.8 | 24.7 |
| 60°-70° | 3451.9 | 33.9 |
| 70°-80° | 1622.4 | 16.0 |
| 80°-90° | 103.9 | 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° | 10168.0 | 100.0 |
| 0°-180° | 10168.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P367631

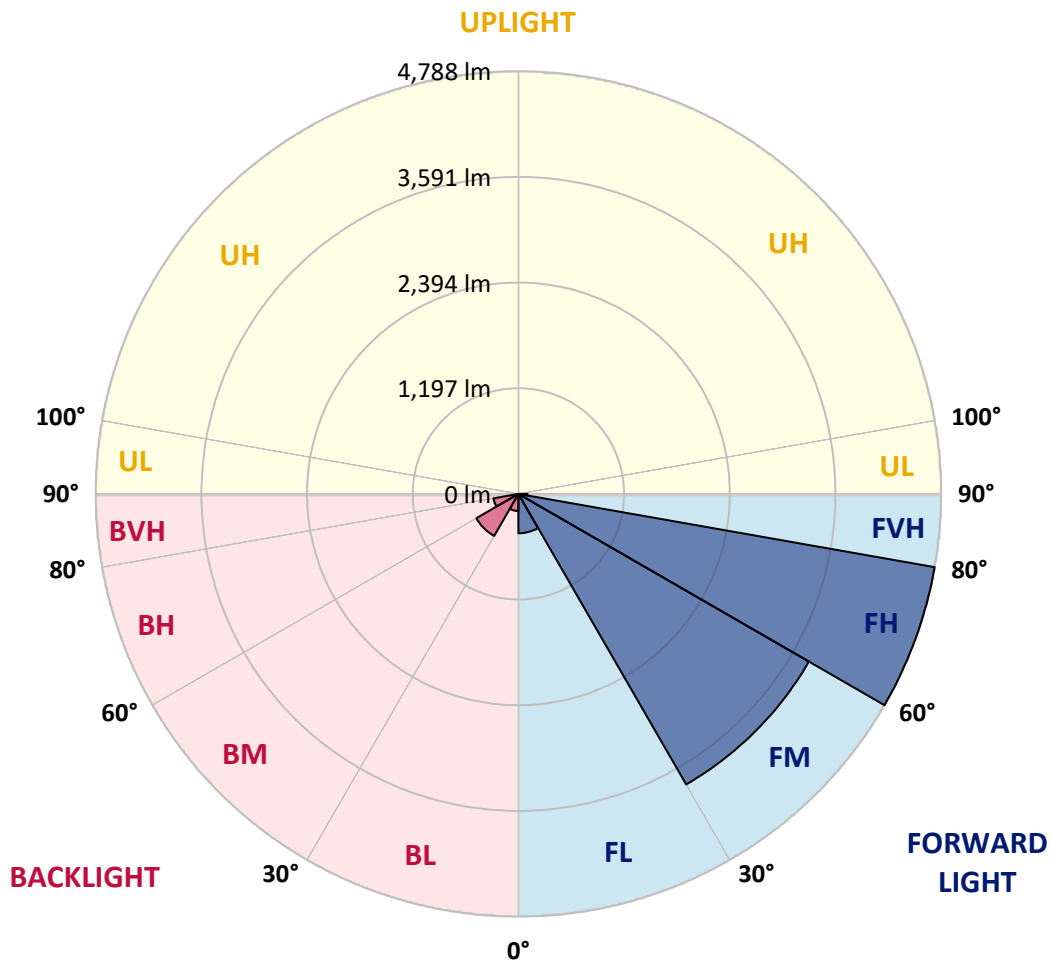
CATALOG NUMBER: PMM-SA2D-760-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 446.0 | 4.4 | | | |
| FM (30°-60°) | 3799.6 | 37.4 | | | |
| FH (60°-80°) | 4787.7 | 47.1 | | | G2/5000 |
| FVH (80°-90°) | 101.8 | 1.0 | | | G2/225 |
| BL (0°-30°) | 193.9 | 1.9 | B1/500 | | |
| BM (30°-60°) | 550.2 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 286.6 | 2.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.1 | 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-G2

Type IV Short





REPORT NUMBER: P367631

CATALOG NUMBER: PMM-SA2D-760-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 |
| 2.5° | 435.7 | 421.6 | 401.5 | 405.9 | 408.2 | 414.3 | 414.9 | 407.1 | 384.6 | 378.5 | 405.9 |
| 5° | 610.6 | 576.4 | 570.2 | 557.3 | 531.5 | 517.5 | 514.2 | 528.2 | 510.2 | 504.6 | 511.9 |
| 7.5° | 779.9 | 750.8 | 718.8 | 701.4 | 647.6 | 614.5 | 612.8 | 618.4 | 621.8 | 602.2 | 612.3 |
| 10° | 892.6 | 860.7 | 853.9 | 813.0 | 766.5 | 758.6 | 755.2 | 733.9 | 716.6 | 702.0 | 653.2 |
| 12.5° | 994.7 | 994.1 | 1006.4 | 947.6 | 940.3 | 948.1 | 945.3 | 869.1 | 851.7 | 790.6 | 776.6 |
| 15° | 1130.3 | 1164.0 | 1110.7 | 1061.4 | 998.6 | 1025.5 | 1018.2 | 969.4 | 957.7 | 916.2 | 856.2 |
| 17.5° | 1271.1 | 1280.0 | 1190.9 | 1115.2 | 1098.9 | 1063.6 | 1070.9 | 1053.5 | 994.1 | 1027.2 | 967.7 |
| 20° | 1274.4 | 1294.1 | 1198.7 | 1073.7 | 1123.6 | 1121.9 | 1122.5 | 1105.7 | 1027.2 | 1104.6 | 1050.2 |
| 22.5° | 1321.5 | 1273.3 | 1184.7 | 1105.1 | 1114.1 | 1122.5 | 1131.5 | 1110.7 | 1093.9 | 1113.0 | 1123.1 |
| 25° | 1302.5 | 1283.4 | 1198.2 | 1145.5 | 1137.1 | 1143.8 | 1146.0 | 1172.4 | 1161.7 | 1207.7 | 1182.5 |
| 27.5° | 1351.8 | 1324.3 | 1171.8 | 1181.4 | 1151.7 | 1143.8 | 1130.3 | 1218.4 | 1249.8 | 1213.3 | 1280.6 |
| 30° | 1436.5 | 1432.6 | 1217.3 | 1231.3 | 1208.3 | 1139.3 | 1175.2 | 1290.1 | 1329.4 | 1307.0 | 1388.8 |
| 32.5° | 1568.8 | 1582.3 | 1350.1 | 1259.3 | 1271.1 | 1301.9 | 1288.5 | 1290.1 | 1389.4 | 1439.3 | 1504.3 |
| 35° | 1756.6 | 1749.3 | 1479.7 | 1365.8 | 1304.2 | 1309.2 | 1328.3 | 1419.7 | 1548.1 | 1544.7 | 1613.7 |
| 37.5° | 2125.6 | 2045.9 | 1709.0 | 1474.6 | 1493.1 | 1518.3 | 1504.3 | 1627.1 | 1639.4 | 1643.9 | 1808.8 |
| 40° | 2669.4 | 2563.5 | 2070.6 | 1703.9 | 1525.6 | 1637.2 | 1630.5 | 1660.8 | 1743.2 | 1774.0 | 2014.5 |
| 42.5° | 3386.0 | 3243.6 | 2707.0 | 2125.6 | 1682.6 | 1605.8 | 1647.3 | 1704.5 | 1981.5 | 2069.5 | 2333.0 |
| 45° | 4177.7 | 3889.5 | 3341.7 | 2726.6 | 2076.2 | 1837.9 | 1869.3 | 1975.9 | 2359.9 | 2505.7 | 2796.7 |
| 47.5° | 4690.7 | 4437.3 | 3970.2 | 3259.3 | 2486.6 | 2361.6 | 2364.4 | 2387.4 | 2804.6 | 3074.8 | 3465.0 |
| 50° | 5136.5 | 4866.8 | 4433.4 | 3816.0 | 3212.7 | 2976.1 | 2922.3 | 2816.3 | 3370.9 | 3740.3 | 4173.2 |
| 52.5° | 5765.5 | 5450.4 | 4896.5 | 4469.2 | 4040.9 | 3483.6 | 3464.5 | 3500.4 | 4038.6 | 4427.2 | 4899.3 |
| 55° | 6333.0 | 5950.0 | 5421.3 | 5152.2 | 4985.1 | 4229.3 | 4245.5 | 4305.5 | 4895.9 | 5101.7 | 5545.2 |
| 57.5° | 6583.6 | 6168.7 | 5896.7 | 5775.6 | 5686.5 | 5248.0 | 5193.1 | 5157.2 | 5572.1 | 5650.6 | 6221.9 |
| 60° | 6747.9 | 6353.1 | 6229.8 | 6257.8 | 6528.1 | 6062.7 | 6012.8 | 5804.2 | 6131.7 | 6196.2 | 6828.6 |
| 62.5° | 6644.1 | 6284.2 | 6310.5 | 6544.3 | 7144.3 | 6838.1 | 6694.0 | 6345.3 | 6589.2 | 6641.3 | 7264.3 |
| 65° | 5990.9 | 5615.8 | 5954.5 | 6520.2 | 7614.1 | 7606.8 | 7540.1 | 6844.9 | 6842.6 | 6909.3 | 7297.9 |
| 67.5° | 4893.7 | 4500.1 | 5047.9 | 6068.3 | 7594.5 | 8072.8 | 8041.4 | 7507.6 | 6879.1 | 6700.8 | 6585.8 |
| 70° | 3402.3 | 3060.8 | 3682.0 | 5011.4 | 6917.8 | 8069.4 | 8018.9 | 7952.8 | 6590.9 | 5767.8 | 5106.2 |
| 72.5° | 1767.8 | 1580.0 | 2158.6 | 3453.3 | 5514.4 | 7089.9 | 7256.4 | 7147.6 | 5627.6 | 4190.6 | 3007.0 |
| 75° | 600.5 | 538.8 | 890.4 | 1832.9 | 3665.8 | 5414.0 | 5609.1 | 5498.7 | 3822.2 | 2248.4 | 1189.2 |
| 77.5° | 232.7 | 216.4 | 319.0 | 744.0 | 1839.1 | 3299.1 | 3511.0 | 3398.3 | 2049.9 | 823.6 | 279.8 |
| 80° | 132.3 | 127.8 | 176.1 | 335.3 | 810.8 | 1641.1 | 1790.3 | 1623.8 | 739.0 | 277.5 | 72.9 |
| 82.5° | 56.1 | 57.8 | 98.1 | 181.1 | 407.6 | 579.2 | 645.9 | 589.3 | 309.5 | 190.1 | 26.9 |
| 85° | 12.3 | 15.1 | 46.5 | 100.9 | 171.0 | 165.4 | 173.3 | 192.3 | 190.1 | 139.6 | 11.8 |
| 87.5° | 0.0 | 0.0 | 14.6 | 27.5 | 40.9 | 26.9 | 21.3 | 37.6 | 58.3 | 56.1 | 5.0 |
| 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-SA2D-760-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 | 342.6 |
| 2.5° | 411.0 | 405.4 | 370.1 | 367.8 | 370.1 | 363.9 | 363.3 | 350.4 | 351.6 | 380.7 | 382.9 |
| 5° | 511.9 | 483.9 | 453.6 | 444.1 | 435.1 | 414.9 | 426.1 | 426.1 | 426.1 | 444.6 | 450.2 |
| 7.5° | 603.3 | 565.7 | 523.1 | 487.2 | 452.5 | 427.2 | 444.6 | 457.0 | 464.2 | 488.4 | 499.6 |
| 10° | 644.8 | 607.8 | 569.7 | 518.6 | 491.7 | 482.2 | 462.0 | 451.4 | 464.2 | 459.2 | 465.4 |
| 12.5° | 733.4 | 699.7 | 634.1 | 581.4 | 561.2 | 528.7 | 469.3 | 427.8 | 400.3 | 395.8 | 394.7 |
| 15° | 819.7 | 799.0 | 711.0 | 640.3 | 570.2 | 495.1 | 393.6 | 338.7 | 309.5 | 304.5 | 305.0 |
| 17.5° | 929.1 | 899.3 | 769.8 | 668.3 | 549.5 | 414.3 | 303.9 | 256.8 | 254.6 | 266.9 | 268.0 |
| 20° | 1001.9 | 953.2 | 799.5 | 645.4 | 481.1 | 313.4 | 237.7 | 226.5 | 244.5 | 266.9 | 264.6 |
| 22.5° | 1071.5 | 1018.8 | 838.8 | 625.2 | 372.9 | 237.7 | 218.7 | 219.8 | 234.9 | 259.0 | 265.2 |
| 25° | 1117.4 | 1098.4 | 887.0 | 578.1 | 284.3 | 205.8 | 209.1 | 217.5 | 230.4 | 253.4 | 253.4 |
| 27.5° | 1255.9 | 1166.8 | 881.4 | 486.7 | 218.7 | 191.8 | 199.6 | 210.3 | 217.0 | 244.5 | 247.3 |
| 30° | 1340.0 | 1310.9 | 910.6 | 393.6 | 191.8 | 173.8 | 189.0 | 198.5 | 203.0 | 234.4 | 235.5 |
| 32.5° | 1443.2 | 1378.7 | 945.9 | 290.4 | 178.3 | 172.7 | 169.3 | 176.6 | 189.5 | 217.0 | 218.7 |
| 35° | 1568.8 | 1549.7 | 895.4 | 228.2 | 173.8 | 161.5 | 154.7 | 158.7 | 167.1 | 185.6 | 189.5 |
| 37.5° | 1825.0 | 1711.8 | 865.1 | 195.7 | 173.8 | 157.6 | 150.3 | 140.2 | 141.3 | 154.2 | 161.5 |
| 40° | 2040.9 | 2006.1 | 780.5 | 190.1 | 166.0 | 151.9 | 134.0 | 121.7 | 113.3 | 117.2 | 120.0 |
| 42.5° | 2437.3 | 2276.4 | 671.1 | 187.3 | 158.7 | 137.4 | 113.8 | 100.9 | 88.0 | 89.1 | 93.6 |
| 45° | 2918.4 | 2571.3 | 573.6 | 184.5 | 153.6 | 122.8 | 95.9 | 80.7 | 67.3 | 67.8 | 72.3 |
| 47.5° | 3560.9 | 3001.4 | 455.3 | 176.1 | 144.7 | 109.3 | 77.4 | 61.7 | 53.8 | 55.5 | 59.4 |
| 50° | 4290.9 | 3378.7 | 360.0 | 163.2 | 134.0 | 96.4 | 62.8 | 49.9 | 47.1 | 48.8 | 53.3 |
| 52.5° | 4943.0 | 3656.8 | 297.2 | 151.4 | 118.9 | 78.5 | 52.7 | 44.3 | 43.2 | 44.3 | 47.7 |
| 55° | 5522.8 | 3818.3 | 248.4 | 137.9 | 102.0 | 63.4 | 47.7 | 40.9 | 40.4 | 39.8 | 42.1 |
| 57.5° | 6066.6 | 3864.8 | 194.0 | 116.6 | 83.0 | 54.9 | 44.3 | 38.1 | 37.0 | 35.3 | 37.0 |
| 60° | 6463.0 | 3785.2 | 142.4 | 93.6 | 67.8 | 49.9 | 41.5 | 34.2 | 32.5 | 29.7 | 30.8 |
| 62.5° | 6654.2 | 3567.1 | 107.7 | 75.1 | 57.8 | 45.4 | 37.0 | 29.7 | 27.5 | 24.1 | 24.7 |
| 65° | 6472.6 | 3207.7 | 84.7 | 63.4 | 49.3 | 38.1 | 31.4 | 25.2 | 22.4 | 19.1 | 19.1 |
| 67.5° | 5668.0 | 2661.0 | 71.8 | 54.9 | 41.5 | 32.5 | 25.8 | 23.0 | 18.5 | 15.7 | 15.1 |
| 70° | 4160.3 | 1914.2 | 61.7 | 48.2 | 35.9 | 28.0 | 21.9 | 20.7 | 17.9 | 15.1 | 14.0 |
| 72.5° | 2348.2 | 1083.2 | 52.7 | 42.6 | 30.3 | 23.5 | 18.5 | 19.1 | 17.4 | 14.0 | 12.9 |
| 75° | 896.0 | 365.0 | 43.7 | 35.3 | 24.7 | 17.9 | 15.7 | 15.7 | 15.7 | 11.8 | 10.1 |
| 77.5° | 222.0 | 93.1 | 34.8 | 28.6 | 19.6 | 11.8 | 12.9 | 13.5 | 13.5 | 10.1 | 7.3 |
| 80° | 61.1 | 31.4 | 20.7 | 20.7 | 14.0 | 6.7 | 9.0 | 9.0 | 7.3 | 3.4 | 0.0 |
| 82.5° | 22.4 | 11.8 | 7.3 | 9.0 | 6.2 | 2.2 | 3.4 | 2.2 | 1.7 | 0.0 | 0.0 |
| 85° | 9.5 | 6.2 | 4.5 | 5.0 | 2.8 | 0.0 | 0.6 | 1.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.9 | 2.8 | 2.2 | 2.2 | 1.1 | 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)