

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: P598494

Luminaire Tested: **PMM-SA3D-835-U-T3**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3D-835-U-T3
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16386 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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

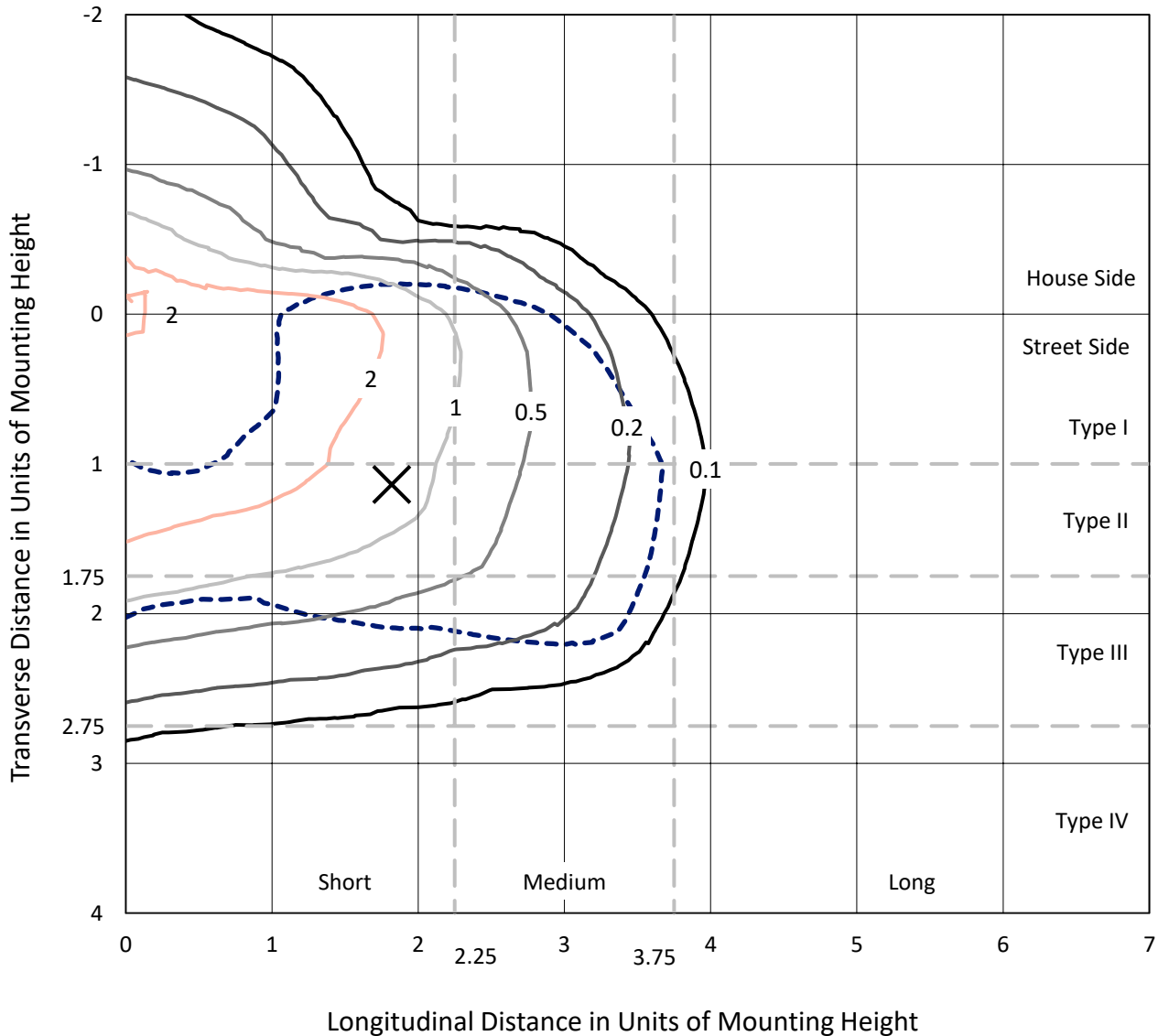


REPORT NUMBER: P598494

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

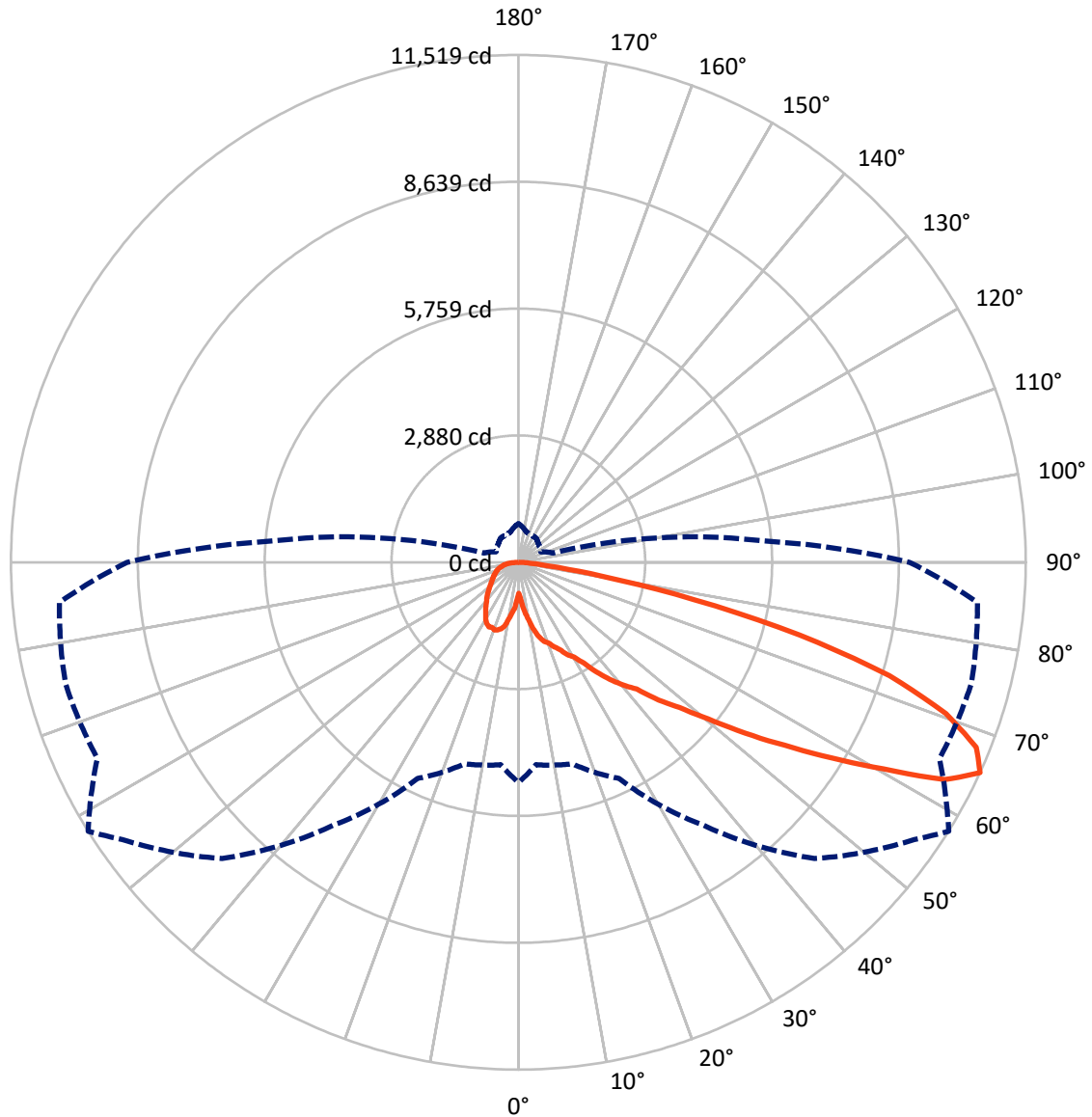


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

REPORT NUMBER: P598494

CATALOG NUMBER: PMM-SA3D-835-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3451.4 | 0.0 | 3451.4 |
| | % Fixture | 21.1 | 0.0 | 21.1 |
| Street Side | Lumens | 12934.6 | 0.0 | 12934.6 |
| | % Fixture | 78.9 | 0.0 | 78.9 |
| Total | Lumens | 16386.0 | 0.0 | 16386.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 107.2 | 0.7 |
| 10°-20° | 467.6 | 2.9 |
| 20°-30° | 897.3 | 5.5 |
| 30°-40° | 1481.4 | 9.0 |
| 40°-50° | 2462.3 | 15.0 |
| 50°-60° | 4066.5 | 24.8 |
| 60°-70° | 4561.9 | 27.8 |
| 70°-80° | 2074.2 | 12.7 |
| 80°-90° | 267.5 | 1.6 |
| 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° | 16386.0 | 100.0 |
| 0°-180° | 16386.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P598494

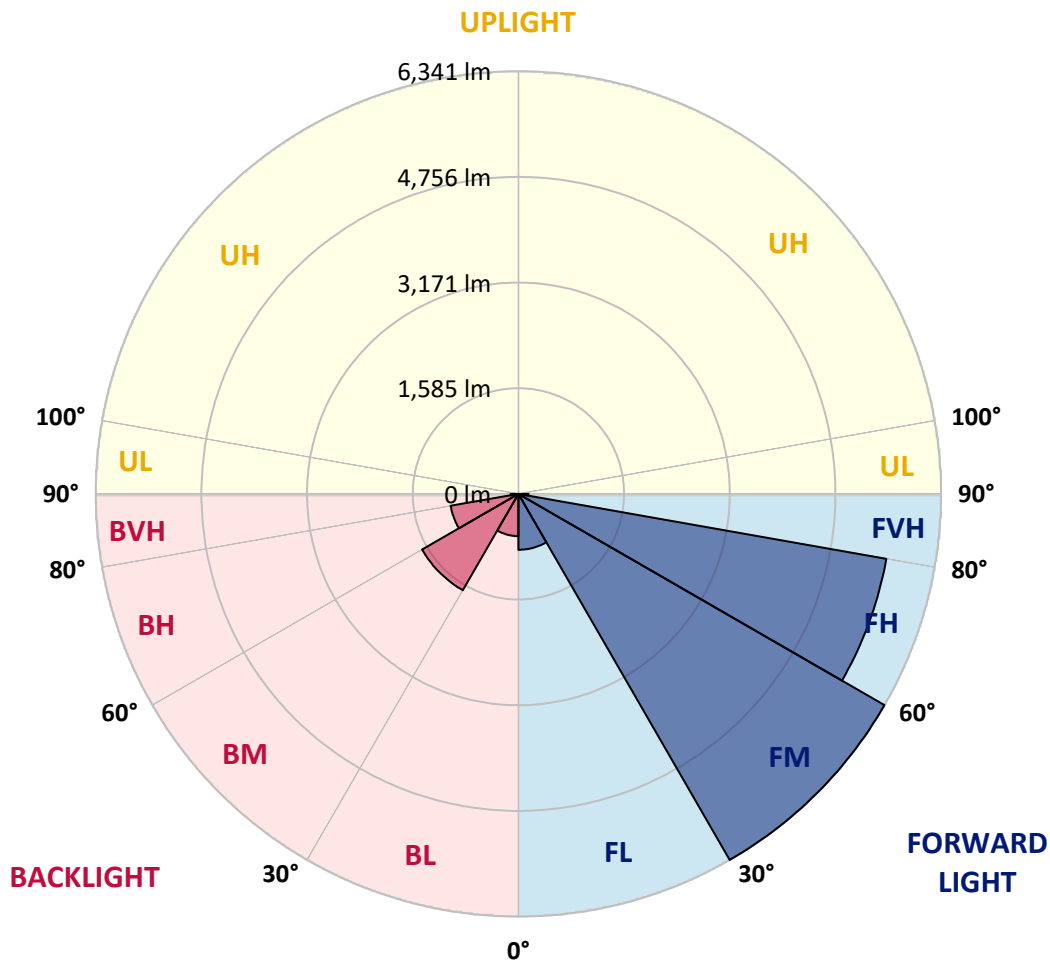
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 838.5 | 5.1 | | | |
| FM (30°-60°) | 6341.1 | 38.7 | | | |
| FH (60°-80°) | 5604.3 | 34.2 | | | G3/7500 |
| FVH (80°-90°) | 150.6 | 0.9 | | | G2/225 |
| BL (0°-30°) | 633.6 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1669.2 | 10.2 | B2/2500 | | |
| BH (60°-80°) | 1031.7 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 116.9 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P598494

CATALOG NUMBER: PMM-SA3D-835-U-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 |
| 2.5° | 840.0 | 814.8 | 772.5 | 782.7 | 807.3 | 820.9 | 812.7 | 801.8 | 787.5 | 784.7 | 847.5 |
| 5° | 1087.7 | 1039.3 | 1019.5 | 1011.3 | 981.3 | 963.5 | 994.2 | 990.1 | 1006.5 | 1036.5 | 1098.0 |
| 7.5° | 1268.6 | 1234.4 | 1201.7 | 1198.3 | 1140.3 | 1119.8 | 1160.7 | 1182.6 | 1211.9 | 1212.6 | 1295.9 |
| 10° | 1365.5 | 1336.1 | 1335.4 | 1304.7 | 1299.9 | 1338.8 | 1339.5 | 1355.9 | 1359.3 | 1394.1 | 1377.7 |
| 12.5° | 1470.5 | 1468.5 | 1506.0 | 1505.3 | 1549.0 | 1613.2 | 1581.1 | 1581.1 | 1590.6 | 1548.3 | 1600.2 |
| 15° | 1721.0 | 1742.8 | 1672.5 | 1684.1 | 1684.1 | 1746.9 | 1744.9 | 1757.1 | 1786.5 | 1775.6 | 1752.4 |
| 17.5° | 1981.6 | 1995.3 | 1917.5 | 1845.2 | 1850.6 | 1837.0 | 1886.1 | 1890.9 | 1862.9 | 1989.8 | 1961.9 |
| 20° | 2149.5 | 2202.7 | 2039.0 | 1948.2 | 1966.0 | 1981.6 | 1983.7 | 1954.4 | 1940.0 | 2135.2 | 2097.0 |
| 22.5° | 2357.0 | 2311.9 | 2161.8 | 2061.5 | 2088.1 | 2066.9 | 2062.9 | 2085.4 | 2105.2 | 2178.9 | 2241.0 |
| 25° | 2495.5 | 2492.1 | 2311.9 | 2202.1 | 2172.7 | 2166.6 | 2208.2 | 2199.3 | 2246.4 | 2380.2 | 2341.3 |
| 27.5° | 2696.8 | 2759.6 | 2440.2 | 2467.5 | 2338.5 | 2202.7 | 2336.5 | 2376.8 | 2461.4 | 2439.5 | 2526.2 |
| 30° | 3087.1 | 3040.0 | 2706.3 | 2698.8 | 2552.8 | 2438.8 | 2531.7 | 2497.5 | 2649.7 | 2644.9 | 2709.1 |
| 32.5° | 3405.8 | 3438.5 | 3018.9 | 2940.4 | 2831.9 | 2694.7 | 2633.3 | 2728.2 | 2810.1 | 2944.5 | 2980.7 |
| 35° | 3742.9 | 3735.4 | 3338.9 | 3180.6 | 3001.1 | 2944.5 | 3020.2 | 3059.8 | 3233.8 | 3357.3 | 3271.4 |
| 37.5° | 4267.0 | 4207.6 | 3753.8 | 3454.2 | 3319.8 | 3299.3 | 3429.0 | 3371.7 | 3560.0 | 3589.4 | 3637.8 |
| 40° | 4754.2 | 4575.4 | 4133.2 | 3790.0 | 3576.4 | 3652.8 | 3656.9 | 3664.4 | 3765.4 | 3845.2 | 4084.8 |
| 42.5° | 5217.5 | 5092.0 | 4518.8 | 4260.8 | 3946.2 | 3871.9 | 3918.3 | 3934.0 | 4189.2 | 4352.3 | 4683.9 |
| 45° | 5850.8 | 5514.4 | 5072.9 | 4808.1 | 4456.0 | 4361.1 | 4328.4 | 4463.5 | 4709.8 | 5081.0 | 5365.6 |
| 47.5° | 6386.5 | 6082.8 | 5661.8 | 5313.1 | 4919.3 | 5190.2 | 5004.6 | 4928.9 | 5259.8 | 5719.8 | 6172.9 |
| 50° | 6830.7 | 6496.3 | 6083.5 | 5882.2 | 5819.4 | 6061.0 | 5579.2 | 5588.1 | 5891.0 | 6540.0 | 7059.3 |
| 52.5° | 7174.6 | 6817.7 | 6452.0 | 6349.6 | 6700.3 | 6839.6 | 6491.5 | 6439.0 | 6660.1 | 7427.1 | 8050.8 |
| 55° | 7496.0 | 7117.3 | 6834.8 | 7043.6 | 7634.5 | 7650.2 | 7625.7 | 7334.3 | 7600.4 | 8377.7 | 9077.1 |
| 57.5° | 7578.6 | 7170.5 | 6982.9 | 7282.4 | 8081.5 | 8703.2 | 8947.4 | 8375.6 | 8646.5 | 9242.2 | 9956.0 |
| 60° | 7153.5 | 6804.1 | 6729.0 | 7135.7 | 8323.1 | 9232.0 | 9870.0 | 9528.2 | 9426.5 | 9936.2 | 10571.5 |
| 62.5° | 6282.7 | 5877.4 | 5938.1 | 6503.1 | 8068.5 | 9441.5 | 10598.8 | 10865.6 | 10250.1 | 10488.3 | 10840.4 |
| 65° | 5000.5 | 4613.6 | 4736.4 | 5416.1 | 7269.5 | 9511.1 | 10971.4 | 11518.7 | 10547.6 | 10644.5 | 10459.6 |
| 67.5° | 3526.6 | 3175.1 | 3330.0 | 4209.0 | 6047.3 | 8619.9 | 11035.5 | 11214.3 | 10231.0 | 10198.9 | 9419.7 |
| 70° | 1998.0 | 1777.6 | 1945.5 | 2678.4 | 4268.3 | 6866.9 | 10532.6 | 10297.2 | 9663.3 | 9208.8 | 7881.6 |
| 72.5° | 916.4 | 840.7 | 921.2 | 1363.4 | 2457.3 | 4569.3 | 8598.7 | 8812.3 | 8326.5 | 7758.0 | 5996.1 |
| 75° | 487.2 | 460.6 | 494.7 | 681.0 | 1149.8 | 2485.9 | 6109.4 | 6589.8 | 6331.2 | 5884.2 | 3911.4 |
| 77.5° | 362.3 | 341.9 | 358.3 | 441.5 | 614.1 | 972.4 | 3471.3 | 4077.3 | 4175.5 | 3764.0 | 2172.0 |
| 80° | 277.7 | 261.4 | 277.7 | 333.7 | 425.1 | 462.0 | 1484.2 | 1900.4 | 2164.5 | 1749.0 | 863.2 |
| 82.5° | 206.1 | 195.2 | 220.4 | 250.4 | 298.9 | 288.6 | 526.8 | 655.8 | 845.5 | 578.0 | 336.4 |
| 85° | 163.8 | 150.1 | 159.7 | 169.9 | 191.1 | 158.3 | 240.9 | 269.5 | 285.2 | 238.8 | 124.2 |
| 87.5° | 64.1 | 59.4 | 116.0 | 91.4 | 77.8 | 47.8 | 72.3 | 81.9 | 83.9 | 80.5 | 36.2 |
| 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: P598494

CATALOG NUMBER: PMM-SA3D-835-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 | 703.5 |
| 2.5° | 854.3 | 847.5 | 807.3 | 820.2 | 841.4 | 845.5 | 854.3 | 829.8 | 817.5 | 862.5 | 864.6 |
| 5° | 1103.4 | 1066.6 | 1047.5 | 1049.5 | 1035.9 | 1014.7 | 1046.8 | 1067.9 | 1076.1 | 1109.6 | 1121.8 |
| 7.5° | 1296.5 | 1252.2 | 1220.1 | 1183.3 | 1131.4 | 1098.0 | 1153.9 | 1194.9 | 1216.7 | 1286.3 | 1313.6 |
| 10° | 1382.5 | 1347.0 | 1340.2 | 1293.8 | 1292.4 | 1291.8 | 1289.0 | 1274.7 | 1321.8 | 1315.0 | 1334.1 |
| 12.5° | 1559.9 | 1552.4 | 1487.6 | 1469.2 | 1471.2 | 1469.2 | 1411.9 | 1409.1 | 1409.8 | 1472.6 | 1450.1 |
| 15° | 1725.1 | 1726.4 | 1667.1 | 1600.2 | 1540.1 | 1521.7 | 1499.2 | 1489.0 | 1504.0 | 1539.5 | 1517.6 |
| 17.5° | 1929.1 | 1935.9 | 1766.0 | 1660.2 | 1581.1 | 1579.0 | 1525.1 | 1461.7 | 1553.1 | 1574.9 | 1551.1 |
| 20° | 2060.8 | 2032.1 | 1823.3 | 1645.9 | 1623.4 | 1562.0 | 1495.1 | 1407.8 | 1486.9 | 1540.1 | 1555.2 |
| 22.5° | 2185.7 | 2135.9 | 1876.6 | 1671.2 | 1563.3 | 1490.3 | 1425.5 | 1368.9 | 1394.1 | 1453.5 | 1443.9 |
| 25° | 2270.3 | 2256.7 | 1950.3 | 1731.9 | 1561.3 | 1398.9 | 1311.5 | 1275.4 | 1288.3 | 1380.5 | 1371.6 |
| 27.5° | 2472.3 | 2324.9 | 1937.3 | 1747.6 | 1495.8 | 1274.0 | 1230.3 | 1191.4 | 1178.5 | 1278.1 | 1305.4 |
| 30° | 2607.4 | 2546.7 | 2024.0 | 1723.0 | 1413.2 | 1171.7 | 1107.5 | 1099.3 | 1103.4 | 1216.7 | 1224.2 |
| 32.5° | 2836.7 | 2679.0 | 2165.9 | 1628.9 | 1293.1 | 1095.9 | 1022.2 | 1025.6 | 1044.1 | 1126.6 | 1143.7 |
| 35° | 3075.5 | 2981.3 | 2185.0 | 1561.3 | 1195.5 | 1015.4 | 985.4 | 961.5 | 971.7 | 1044.1 | 1047.5 |
| 37.5° | 3519.1 | 3193.6 | 2302.4 | 1456.9 | 1123.9 | 984.7 | 927.4 | 906.2 | 911.7 | 952.6 | 982.0 |
| 40° | 3909.4 | 3620.1 | 2247.8 | 1355.9 | 1035.2 | 943.7 | 872.1 | 856.4 | 840.0 | 880.3 | 898.7 |
| 42.5° | 4535.1 | 3924.4 | 2229.4 | 1244.7 | 993.6 | 888.5 | 839.3 | 797.7 | 782.0 | 816.1 | 849.6 |
| 45° | 5160.9 | 4247.2 | 2129.0 | 1132.1 | 934.9 | 884.4 | 791.6 | 752.0 | 756.1 | 786.8 | 820.9 |
| 47.5° | 5858.3 | 4680.5 | 1959.1 | 1022.9 | 870.7 | 864.6 | 743.8 | 726.7 | 739.0 | 773.1 | 807.3 |
| 50° | 6682.6 | 5140.4 | 1818.6 | 924.6 | 825.0 | 805.2 | 737.7 | 717.2 | 728.8 | 769.0 | 802.5 |
| 52.5° | 7584.0 | 5644.7 | 1716.2 | 833.9 | 773.1 | 758.1 | 745.8 | 726.1 | 739.7 | 774.5 | 809.3 |
| 55° | 8480.0 | 6105.3 | 1646.6 | 771.8 | 728.8 | 738.3 | 762.9 | 748.6 | 755.4 | 781.3 | 816.1 |
| 57.5° | 9144.7 | 6348.2 | 1506.7 | 705.6 | 692.6 | 726.7 | 765.0 | 741.1 | 745.2 | 781.3 | 818.9 |
| 60° | 9530.9 | 6394.6 | 1276.7 | 651.7 | 664.0 | 703.5 | 743.8 | 713.1 | 710.4 | 769.7 | 816.8 |
| 62.5° | 9488.6 | 6125.1 | 1012.7 | 602.5 | 631.2 | 668.7 | 711.7 | 682.4 | 689.9 | 771.1 | 820.9 |
| 65° | 8882.6 | 5574.4 | 805.2 | 560.9 | 591.6 | 630.5 | 685.1 | 673.5 | 709.7 | 825.7 | 879.6 |
| 67.5° | 7818.1 | 4769.9 | 646.9 | 522.0 | 554.8 | 604.6 | 703.5 | 734.2 | 749.9 | 881.6 | 936.9 |
| 70° | 6336.0 | 3706.0 | 539.1 | 487.9 | 525.4 | 616.9 | 756.8 | 750.6 | 737.7 | 855.0 | 898.7 |
| 72.5° | 4577.4 | 2540.5 | 474.3 | 454.5 | 489.3 | 580.0 | 758.1 | 725.4 | 709.0 | 780.6 | 812.0 |
| 75° | 2864.0 | 1515.6 | 414.2 | 412.2 | 434.0 | 520.0 | 724.0 | 694.7 | 650.3 | 685.8 | 726.7 |
| 77.5° | 1635.7 | 775.9 | 348.7 | 367.1 | 380.1 | 451.1 | 648.3 | 621.7 | 582.1 | 597.1 | 637.3 |
| 80° | 624.4 | 375.3 | 294.1 | 326.2 | 322.8 | 382.1 | 549.3 | 543.2 | 498.1 | 502.9 | 527.5 |
| 82.5° | 294.1 | 210.2 | 244.3 | 280.5 | 262.0 | 304.3 | 446.3 | 444.2 | 404.7 | 366.4 | 386.2 |
| 85° | 109.2 | 111.9 | 178.8 | 213.6 | 182.2 | 196.5 | 322.8 | 313.9 | 275.7 | 232.7 | 257.3 |
| 87.5° | 24.6 | 40.3 | 88.0 | 111.2 | 63.5 | 60.7 | 130.3 | 113.3 | 109.2 | 64.8 | 68.2 |
| 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)