

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: P366816

Luminaire Tested: **PMM-SA1B-750-U-T4FT**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1B-750-U-T4FT  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS  
EACH AND TYPE IV FORWARD THROW OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5076 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
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



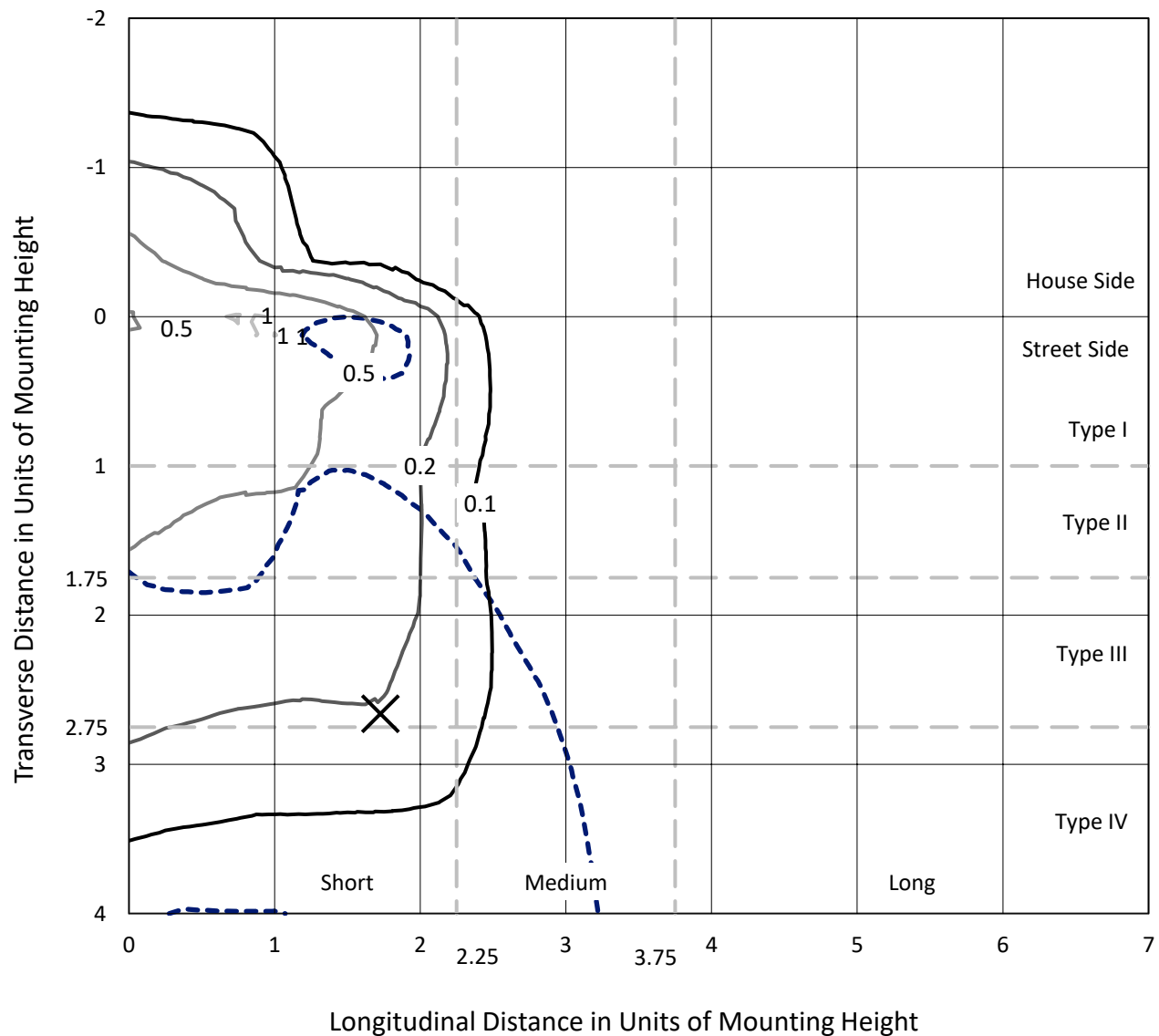
REPORT NUMBER: P366816

CATALOG NUMBER: PMM-SA1B-750-U-T4FT

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



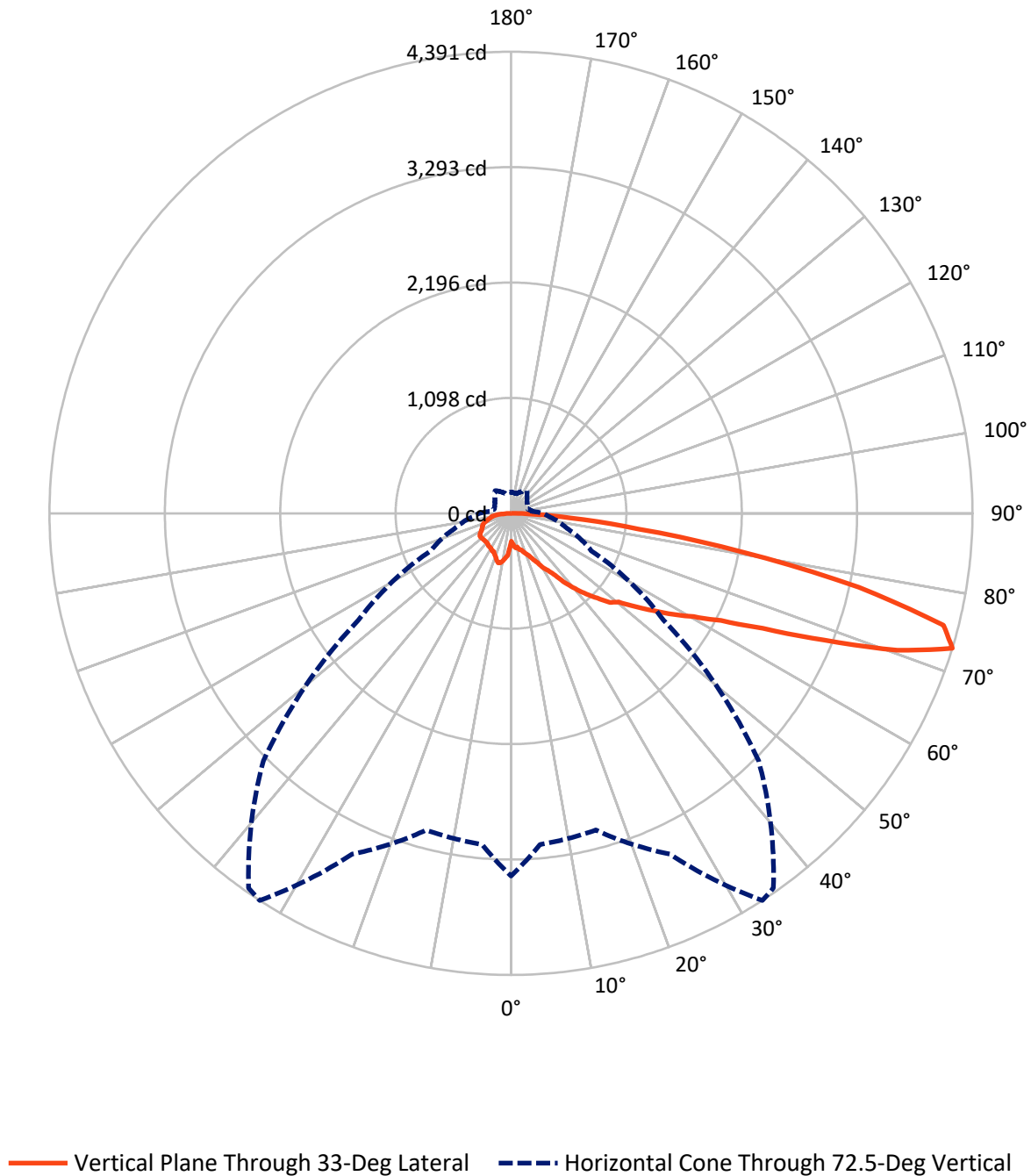
Based on 25 foot mounting height. Maximum calculated value = 1 fc

Type IV - Short - N/A

REPORT NUMBER: P366816

CATALOG NUMBER: PMM-SA1B-750-U-T4FT

## Luminous Intensity Polar Plot



REPORT NUMBER: P366816

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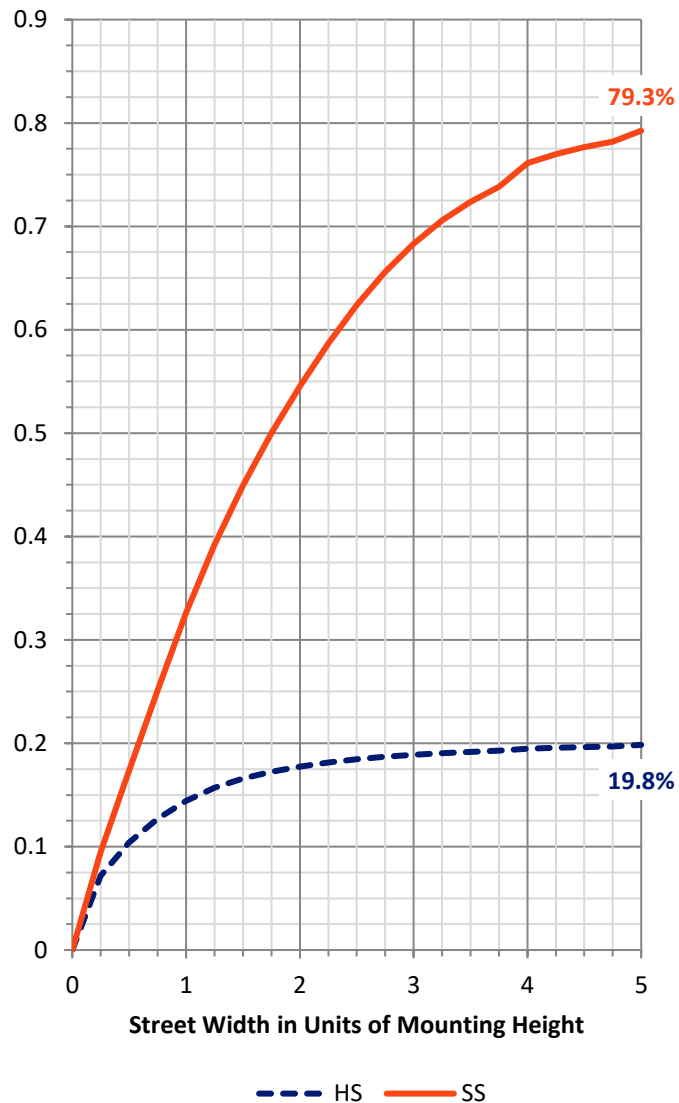
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1026.9   | 0.0    | 1026.9 |
|                    | % Fixture | 20.2     | 0.0    | 20.2   |
| <b>Street Side</b> | Lumens    | 4049.1   | 0.0    | 4049.1 |
|                    | % Fixture | 79.8     | 0.0    | 79.8   |
| <b>Total</b>       | Lumens    | 5076.0   | 0.0    | 5076.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.6   | 0.7       |
| 10°-20°   | 135.2  | 2.7       |
| 20°-30°   | 246.6  | 4.9       |
| 30°-40°   | 417.2  | 8.2       |
| 40°-50°   | 694.1  | 13.7      |
| 50°-60°   | 1018.7 | 20.1      |
| 60°-70°   | 1303.1 | 25.7      |
| 70°-80°   | 1060.2 | 20.9      |
| 80°-90°   | 164.2  | 3.2       |
| 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°    | 5076.0 | 100.0     |
| 0°-180°   | 5076.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P366816

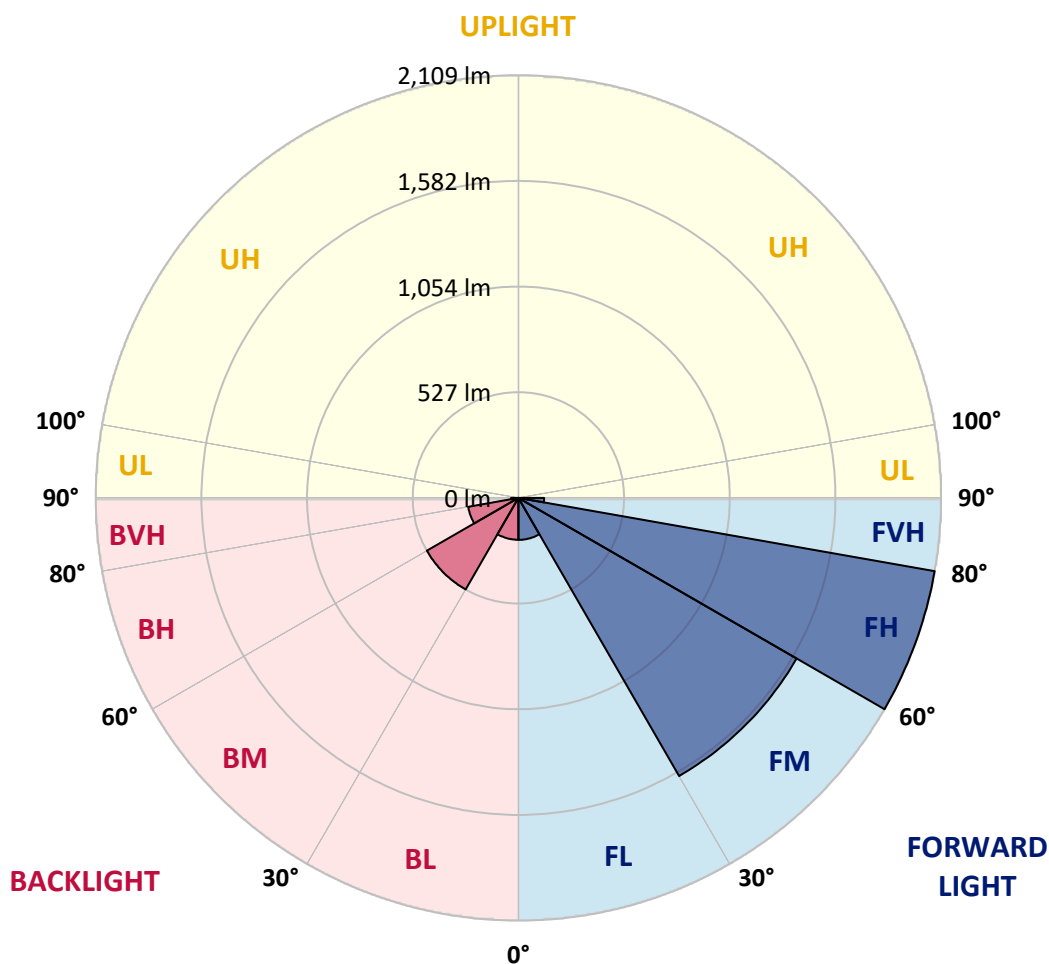
CATALOG NUMBER: PMM-SA1B-750-U-T4FT

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 209.5  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 1602.6 | 31.6      |                         |      |         |
| FH   | (60°-80°)   | 2108.9 | 41.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 128.2  | 2.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 209.0  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 527.4  | 10.4      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 254.4  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 36.0   | 0.7       |                         |      | G1/100  |
| 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: P366816

CATALOG NUMBER: PMM-SA1B-750-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 33°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 266.2  | 266.2  | 266.2  | 266.2  | 266.2  | 266.2  | 266.2  | 266.2  | 266.2  | 266.2  | 266.2  |
| 2.5°  | 301.8  | 292.3  | 276.7  | 276.3  | 284.9  | 286.8  | 292.5  | 292.9  | 295.0  | 291.6  | 315.7  |
| 5°    | 332.9  | 322.8  | 316.7  | 318.8  | 314.8  | 319.7  | 319.7  | 333.5  | 352.1  | 373.6  | 404.1  |
| 7.5°  | 340.3  | 332.9  | 326.0  | 331.2  | 332.1  | 327.4  | 331.9  | 364.5  | 398.0  | 419.5  | 468.3  |
| 10°   | 325.5  | 318.2  | 323.4  | 325.1  | 324.9  | 335.4  | 358.4  | 384.5  | 421.8  | 461.4  | 487.7  |
| 12.5° | 322.8  | 328.1  | 330.6  | 333.5  | 353.6  | 356.7  | 391.5  | 418.4  | 455.9  | 490.6  | 559.1  |
| 15°   | 363.5  | 370.4  | 354.8  | 353.8  | 360.3  | 363.2  | 399.2  | 426.4  | 481.2  | 539.5  | 601.0  |
| 17.5° | 421.4  | 423.9  | 395.9  | 381.6  | 386.4  | 388.7  | 404.5  | 438.6  | 472.3  | 580.1  | 656.8  |
| 20°   | 477.4  | 479.1  | 426.4  | 394.4  | 411.5  | 414.0  | 428.7  | 448.3  | 474.8  | 602.9  | 694.5  |
| 22.5° | 536.1  | 525.4  | 467.7  | 427.3  | 437.2  | 437.8  | 446.4  | 457.2  | 494.8  | 599.3  | 740.4  |
| 25°   | 600.3  | 593.6  | 521.0  | 482.2  | 481.8  | 473.2  | 473.6  | 489.0  | 516.1  | 637.6  | 770.5  |
| 27.5° | 685.6  | 686.5  | 581.0  | 560.1  | 527.5  | 521.8  | 493.4  | 522.0  | 553.0  | 638.0  | 835.6  |
| 30°   | 796.2  | 775.8  | 664.6  | 630.9  | 598.7  | 586.7  | 548.1  | 572.6  | 586.0  | 674.5  | 906.3  |
| 32.5° | 886.1  | 880.2  | 751.7  | 700.8  | 648.1  | 662.0  | 619.5  | 598.0  | 622.2  | 737.2  | 1013.5 |
| 35°   | 972.2  | 952.8  | 844.0  | 777.7  | 722.3  | 713.8  | 686.3  | 689.8  | 704.6  | 816.6  | 1153.5 |
| 37.5° | 1100.7 | 1090.1 | 974.5  | 868.4  | 842.5  | 808.2  | 790.7  | 801.9  | 790.3  | 918.3  | 1363.5 |
| 40°   | 1244.3 | 1183.2 | 1083.6 | 989.1  | 940.6  | 916.4  | 922.5  | 912.0  | 903.2  | 1032.4 | 1551.7 |
| 42.5° | 1381.8 | 1326.2 | 1156.1 | 1113.5 | 1050.3 | 1060.5 | 1027.0 | 1034.3 | 1059.4 | 1194.4 | 1725.9 |
| 45°   | 1531.5 | 1411.3 | 1232.9 | 1195.4 | 1150.2 | 1163.0 | 1189.7 | 1181.7 | 1222.8 | 1385.4 | 1889.9 |
| 47.5° | 1606.3 | 1491.9 | 1327.2 | 1266.2 | 1265.6 | 1238.8 | 1401.6 | 1419.3 | 1355.0 | 1526.9 | 2056.5 |
| 50°   | 1678.3 | 1565.8 | 1397.4 | 1356.1 | 1326.2 | 1383.5 | 1604.8 | 1564.1 | 1474.7 | 1689.2 | 2239.7 |
| 52.5° | 1778.5 | 1650.3 | 1477.8 | 1433.8 | 1470.9 | 1523.9 | 1766.9 | 1758.9 | 1591.9 | 1856.2 | 2398.9 |
| 55°   | 1854.9 | 1725.4 | 1598.9 | 1558.0 | 1628.8 | 1680.8 | 1932.0 | 1883.8 | 1692.4 | 1978.8 | 2499.7 |
| 57.5° | 1988.9 | 1856.0 | 1777.7 | 1686.9 | 1814.1 | 1813.3 | 2091.2 | 2053.9 | 1799.8 | 2079.4 | 2540.4 |
| 60°   | 2201.8 | 2045.7 | 1963.8 | 1859.2 | 1995.4 | 2044.0 | 2273.1 | 2165.8 | 1875.8 | 2143.0 | 2467.1 |
| 62.5° | 2500.6 | 2315.3 | 2182.4 | 2078.8 | 2244.9 | 2333.0 | 2497.8 | 2247.2 | 1880.6 | 2124.9 | 2274.4 |
| 65°   | 2870.1 | 2644.8 | 2470.7 | 2361.2 | 2635.3 | 2761.0 | 2769.5 | 2297.6 | 1836.0 | 1937.7 | 1869.3 |
| 67.5° | 3230.6 | 2977.3 | 2795.6 | 2816.4 | 3216.7 | 3276.3 | 3063.9 | 2339.7 | 1596.2 | 1555.9 | 1298.0 |
| 70°   | 3467.9 | 3193.4 | 3072.3 | 3293.4 | 3901.5 | 3840.5 | 3302.4 | 2228.7 | 1256.9 | 1008.7 | 730.9  |
| 72.5° | 3450.0 | 3162.6 | 3119.0 | 3576.8 | 4391.3 | 4353.2 | 3331.5 | 1772.4 | 841.9  | 551.5  | 364.5  |
| 75°   | 2810.7 | 2587.3 | 2686.3 | 3386.0 | 4250.2 | 4248.3 | 2892.4 | 1097.1 | 431.9  | 283.2  | 230.4  |
| 77.5° | 1554.0 | 1467.3 | 1758.1 | 2563.7 | 3384.1 | 3401.4 | 1954.3 | 497.6  | 232.9  | 200.7  | 173.5  |
| 80°   | 544.3  | 536.3  | 761.9  | 1383.5 | 2226.2 | 2230.4 | 908.8  | 227.6  | 169.3  | 151.8  | 127.4  |
| 82.5° | 199.0  | 197.3  | 315.9  | 642.7  | 1225.8 | 1223.0 | 344.7  | 141.7  | 125.5  | 107.4  | 84.0   |
| 85°   | 79.4   | 77.7   | 144.5  | 285.3  | 563.1  | 554.0  | 133.9  | 80.4   | 82.1   | 64.0   | 41.3   |
| 87.5° | 21.9   | 22.7   | 49.1   | 89.3   | 172.5  | 159.8  | 33.7   | 27.2   | 33.3   | 26.1   | 13.1   |
| 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: P366816

CATALOG NUMBER: PMM-SA1B-750-U-T4FT

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 266.2  | 266.2  | 266.2 | 266.2 | 266.2 | 266.2 | 266.2 | 266.2 | 266.2 | 266.2 | 266.2 |
| 2.5°  | 319.9  | 322.0  | 301.1 | 308.5 | 318.0 | 323.0 | 325.5 | 314.8 | 318.4 | 333.5 | 332.9 |
| 5°    | 410.4  | 402.0  | 394.0 | 402.2 | 396.7 | 388.9 | 401.6 | 400.9 | 409.1 | 417.4 | 419.3 |
| 7.5°  | 478.0  | 467.1  | 463.3 | 444.7 | 426.2 | 407.5 | 423.7 | 433.8 | 435.9 | 456.3 | 464.9 |
| 10°   | 502.4  | 498.2  | 499.7 | 475.3 | 472.9 | 474.8 | 459.9 | 443.7 | 453.6 | 445.2 | 451.5 |
| 12.5° | 558.9  | 569.4  | 543.3 | 526.6 | 525.2 | 513.6 | 483.7 | 473.2 | 462.0 | 473.6 | 467.7 |
| 15°   | 604.1  | 623.7  | 595.7 | 566.4 | 533.4 | 515.5 | 490.0 | 474.0 | 466.6 | 469.2 | 462.0 |
| 17.5° | 670.5  | 688.8  | 617.6 | 572.8 | 538.6 | 512.3 | 473.4 | 439.3 | 457.4 | 458.8 | 450.6 |
| 20°   | 714.5  | 715.7  | 625.0 | 557.2 | 526.4 | 480.7 | 442.8 | 412.9 | 433.8 | 455.1 | 464.3 |
| 22.5° | 757.4  | 748.0  | 634.0 | 544.8 | 482.0 | 437.8 | 419.3 | 417.4 | 432.9 | 450.8 | 452.9 |
| 25°   | 789.7  | 791.1  | 639.3 | 540.1 | 455.9 | 395.7 | 395.7 | 409.4 | 423.0 | 465.6 | 463.5 |
| 27.5° | 867.8  | 810.3  | 618.9 | 518.9 | 419.7 | 371.0 | 395.9 | 414.2 | 420.7 | 466.8 | 471.5 |
| 30°   | 924.6  | 887.1  | 623.1 | 482.4 | 383.0 | 359.5 | 379.9 | 402.8 | 420.9 | 474.2 | 472.5 |
| 32.5° | 1020.0 | 919.2  | 633.0 | 431.3 | 355.7 | 355.0 | 373.1 | 397.4 | 419.0 | 466.2 | 468.7 |
| 35°   | 1125.5 | 1013.5 | 605.4 | 392.3 | 349.1 | 352.5 | 375.9 | 385.6 | 411.0 | 463.1 | 465.4 |
| 37.5° | 1320.7 | 1062.8 | 587.9 | 362.2 | 344.9 | 354.6 | 363.5 | 378.4 | 404.1 | 447.3 | 462.4 |
| 40°   | 1435.3 | 1164.3 | 523.1 | 344.7 | 336.1 | 352.9 | 357.3 | 370.0 | 383.9 | 428.3 | 438.0 |
| 42.5° | 1586.0 | 1196.3 | 467.7 | 325.3 | 331.7 | 346.0 | 359.2 | 362.4 | 371.7 | 398.4 | 416.1 |
| 45°   | 1711.8 | 1220.3 | 408.9 | 309.8 | 316.7 | 361.3 | 362.2 | 360.7 | 359.0 | 368.9 | 383.5 |
| 47.5° | 1841.9 | 1284.7 | 354.8 | 292.5 | 311.0 | 374.0 | 363.7 | 350.2 | 343.2 | 344.5 | 358.0 |
| 50°   | 1985.5 | 1331.5 | 316.5 | 278.4 | 312.3 | 374.0 | 370.8 | 339.4 | 325.5 | 322.0 | 336.1 |
| 52.5° | 2111.8 | 1336.9 | 287.4 | 267.0 | 307.0 | 361.1 | 375.7 | 332.7 | 309.3 | 300.7 | 314.0 |
| 55°   | 2180.7 | 1267.7 | 266.4 | 256.7 | 293.5 | 349.6 | 373.1 | 328.9 | 289.7 | 283.2 | 295.0 |
| 57.5° | 2179.2 | 1152.7 | 248.5 | 242.4 | 278.2 | 333.3 | 359.0 | 308.3 | 277.7 | 274.0 | 285.5 |
| 60°   | 2100.7 | 1017.9 | 234.8 | 230.6 | 262.4 | 309.8 | 333.8 | 294.8 | 266.2 | 264.3 | 276.9 |
| 62.5° | 1922.5 | 878.7  | 221.5 | 218.2 | 247.6 | 293.1 | 321.8 | 279.9 | 254.2 | 254.0 | 266.0 |
| 65°   | 1574.5 | 705.4  | 209.1 | 208.3 | 233.9 | 276.7 | 310.4 | 267.2 | 241.7 | 246.0 | 258.2 |
| 67.5° | 1084.9 | 495.7  | 195.8 | 198.4 | 221.3 | 260.9 | 301.8 | 258.8 | 228.7 | 237.3 | 248.3 |
| 70°   | 595.3  | 306.6  | 181.1 | 186.1 | 205.3 | 242.6 | 288.3 | 245.1 | 211.6 | 224.9 | 232.5 |
| 72.5° | 302.8  | 204.5  | 162.8 | 170.8 | 185.7 | 215.6 | 263.0 | 225.3 | 193.3 | 198.4 | 202.4 |
| 75°   | 203.4  | 153.9  | 142.3 | 151.2 | 161.9 | 189.9 | 233.3 | 206.8 | 175.8 | 175.2 | 179.6 |
| 77.5° | 153.7  | 120.2  | 120.9 | 131.0 | 137.9 | 167.0 | 209.7 | 191.2 | 161.1 | 159.6 | 166.1 |
| 80°   | 112.4  | 91.2   | 97.3  | 107.8 | 114.1 | 149.9 | 194.4 | 173.9 | 141.1 | 135.2 | 140.7 |
| 82.5° | 74.5   | 64.6   | 72.0  | 82.5  | 87.6  | 125.3 | 176.5 | 147.6 | 115.0 | 100.0 | 100.9 |
| 85°   | 35.2   | 33.9   | 43.0  | 48.0  | 54.5  | 77.7  | 132.0 | 102.1 | 73.3  | 60.6  | 63.4  |
| 87.5° | 8.0    | 10.7   | 14.1  | 13.9  | 16.2  | 20.8  | 41.1  | 28.6  | 21.3  | 14.5  | 9.7   |
| 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)