

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: P366770

Luminaire Tested: **PMM-SA1B-730-U-T3**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1B-730-U-T3  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

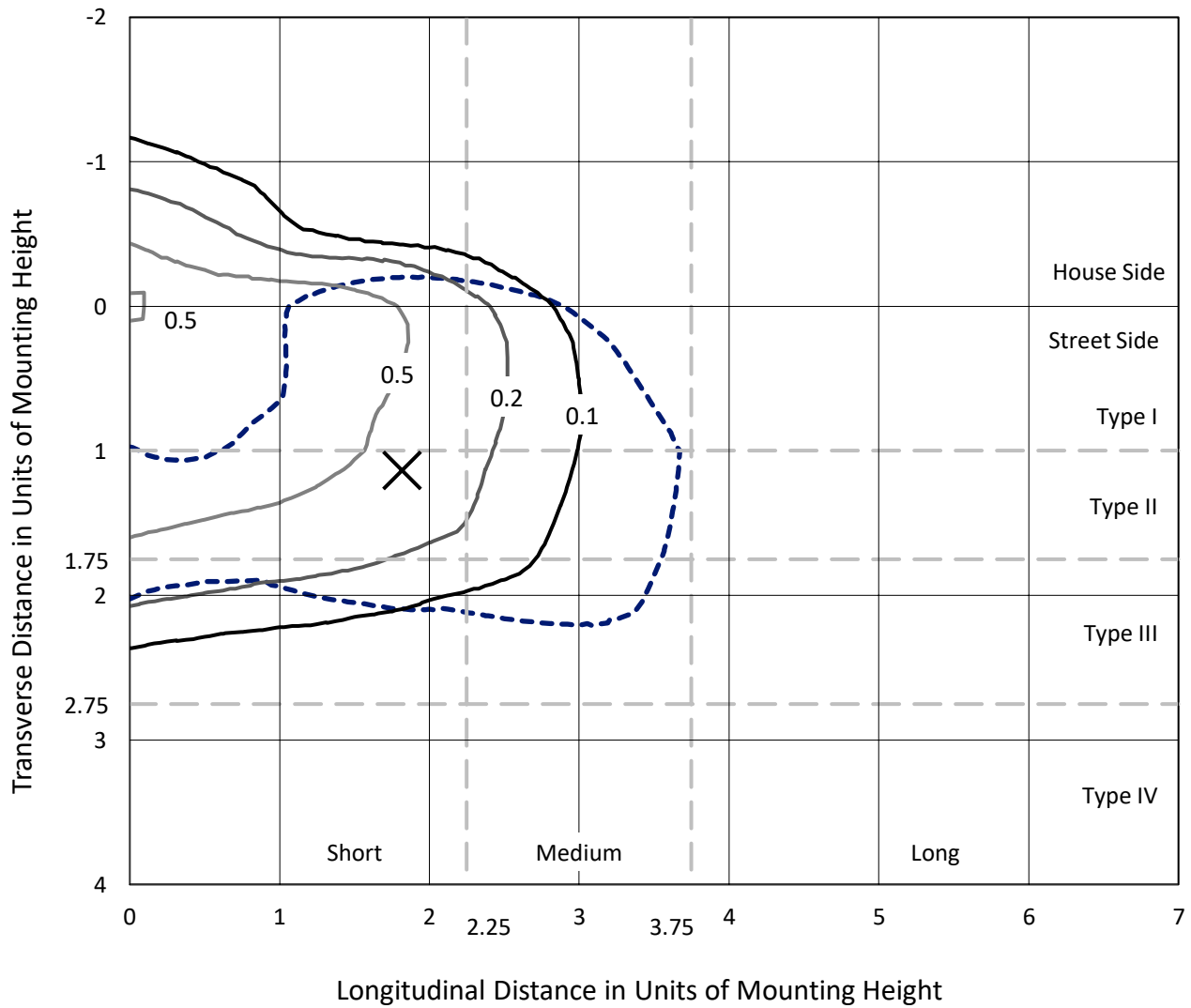
Lumens per Lamp: N/A  
Luminaire Lumens: 4606 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P366770  
 CATALOG NUMBER: PMM-SA1B-730-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

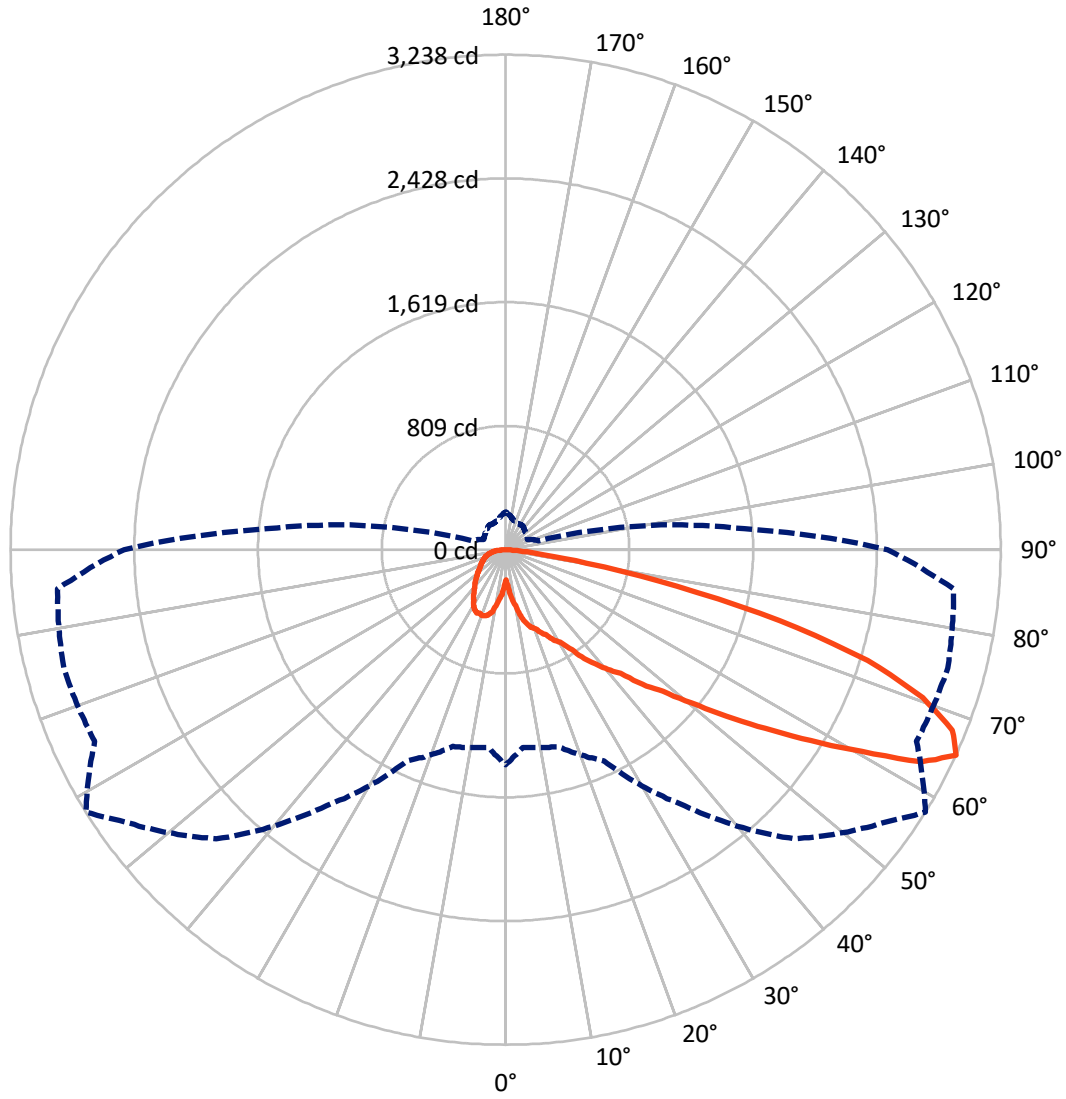
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - Short - N/A

REPORT NUMBER: P366770  
CATALOG NUMBER: PMM-SA1B-730-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P366770  
 CATALOG NUMBER: PMM-SA1B-730-U-T3

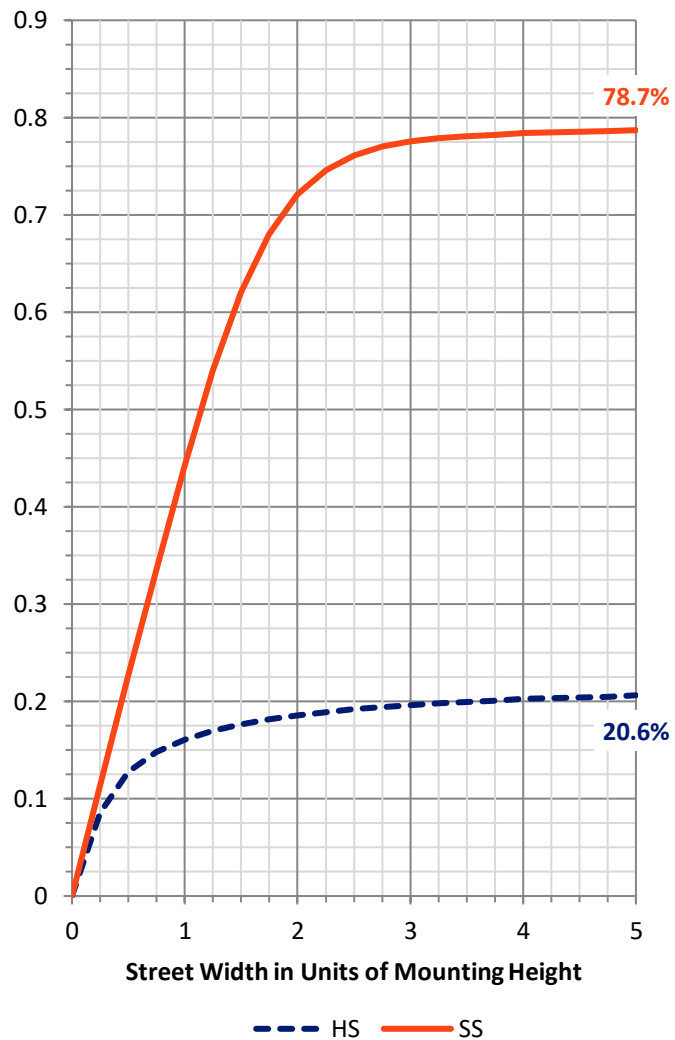
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 970.1    | 0.0    | 970.1  |
|                    | % Fixture | 21.1     | 0.0    | 21.1   |
| <b>Street Side</b> | Lumens    | 3635.8   | 0.0    | 3635.8 |
|                    | % Fixture | 78.9     | 0.0    | 78.9   |
| <b>Total</b>       | Lumens    | 4606.0   | 0.0    | 4606.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 30.1   | 0.7       |
| 10°-20°   | 131.4  | 2.9       |
| 20°-30°   | 252.2  | 5.5       |
| 30°-40°   | 416.4  | 9.0       |
| 40°-50°   | 692.1  | 15.0      |
| 50°-60°   | 1143.1 | 24.8      |
| 60°-70°   | 1282.3 | 27.8      |
| 70°-80°   | 583.0  | 12.7      |
| 80°-90°   | 75.2   | 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°    | 4606.0 | 100.0     |
| 0°-180°   | 4606.0 | 100.0     |

**Coefficient of Utilization**

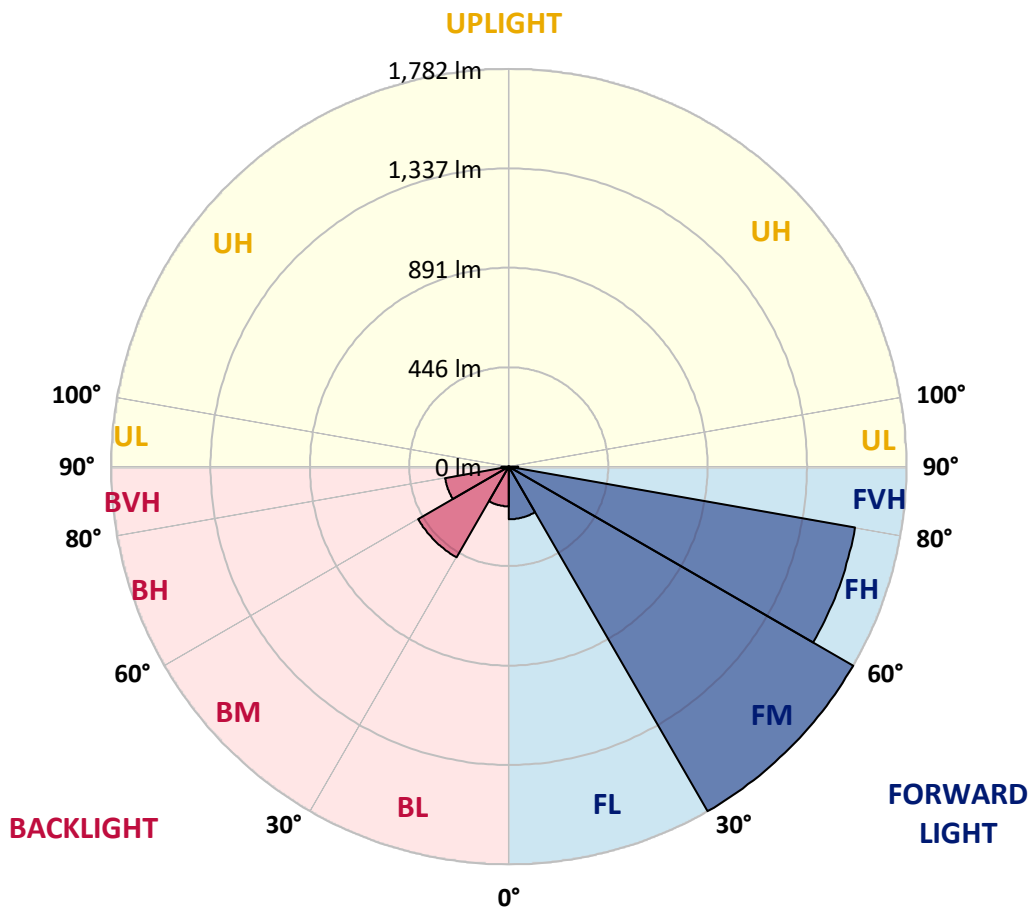


REPORT NUMBER: P366770  
 CATALOG NUMBER: PMM-SA1B-730-U-T3

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 235.7  | 5.1       |                         |      |         |
| FM (30°-60°)   | 1782.4 | 38.7      |                         |      |         |
| FH (60°-80°)   | 1575.3 | 34.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 42.3   | 0.9       |                         |      | G1/100  |
| BL (0°-30°)    | 178.1  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 469.2  | 10.2      | B1/1000                 |      |         |
| BH (60°-80°)   | 290.0  | 6.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 32.8   | 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-G1**  
 Type III Short





REPORT NUMBER: P366770

CATALOG NUMBER: PMM-SA1B-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 197.8  | 197.8  | 197.8  | 197.8  | 197.8  | 197.8  | 197.8  | 197.8  | 197.8  | 197.8  | 197.8  |
| 2.5°  | 236.1  | 229.0  | 217.1  | 220.0  | 226.9  | 230.8  | 228.5  | 225.4  | 221.4  | 220.6  | 238.2  |
| 5°    | 305.8  | 292.1  | 286.6  | 284.3  | 275.8  | 270.8  | 279.5  | 278.3  | 282.9  | 291.4  | 308.6  |
| 7.5°  | 356.6  | 347.0  | 337.8  | 336.8  | 320.5  | 314.8  | 326.3  | 332.4  | 340.7  | 340.9  | 364.3  |
| 10°   | 383.8  | 375.6  | 375.4  | 366.7  | 365.4  | 376.3  | 376.5  | 381.1  | 382.1  | 391.9  | 387.3  |
| 12.5° | 413.4  | 412.8  | 423.3  | 423.1  | 435.4  | 453.4  | 444.4  | 444.4  | 447.1  | 435.2  | 449.8  |
| 15°   | 483.8  | 489.9  | 470.1  | 473.4  | 473.4  | 491.0  | 490.5  | 493.9  | 502.2  | 499.1  | 492.6  |
| 17.5° | 557.0  | 560.9  | 539.0  | 518.7  | 520.2  | 516.4  | 530.2  | 531.5  | 523.7  | 559.3  | 551.5  |
| 20°   | 604.2  | 619.2  | 573.1  | 547.6  | 552.6  | 557.0  | 557.6  | 549.4  | 545.3  | 600.2  | 589.4  |
| 22.5° | 662.5  | 649.9  | 607.7  | 579.5  | 587.0  | 581.0  | 579.9  | 586.2  | 591.7  | 612.5  | 629.9  |
| 25°   | 701.5  | 700.5  | 649.9  | 619.0  | 610.7  | 609.0  | 620.7  | 618.2  | 631.5  | 669.0  | 658.1  |
| 27.5° | 758.1  | 775.7  | 685.9  | 693.6  | 657.3  | 619.2  | 656.8  | 668.1  | 691.9  | 685.7  | 710.1  |
| 30°   | 867.8  | 854.5  | 760.7  | 758.6  | 717.6  | 685.5  | 711.6  | 702.0  | 744.8  | 743.5  | 761.5  |
| 32.5° | 957.3  | 966.6  | 848.6  | 826.5  | 796.0  | 757.5  | 740.2  | 766.9  | 789.9  | 827.7  | 837.8  |
| 35°   | 1052.1 | 1050.0 | 938.5  | 894.0  | 843.6  | 827.7  | 849.0  | 860.1  | 909.0  | 943.7  | 919.6  |
| 37.5° | 1199.4 | 1182.7 | 1055.2 | 971.0  | 933.2  | 927.4  | 963.9  | 947.8  | 1000.7 | 1008.9 | 1022.6 |
| 40°   | 1336.4 | 1286.1 | 1161.8 | 1065.3 | 1005.3 | 1026.8 | 1027.9 | 1030.0 | 1058.4 | 1080.9 | 1148.2 |
| 42.5° | 1466.6 | 1431.3 | 1270.2 | 1197.7 | 1109.3 | 1088.4 | 1101.4 | 1105.8 | 1177.5 | 1223.4 | 1316.6 |
| 45°   | 1644.6 | 1550.1 | 1425.9 | 1351.5 | 1252.5 | 1225.9 | 1216.7 | 1254.7 | 1323.9 | 1428.2 | 1508.2 |
| 47.5° | 1795.2 | 1709.8 | 1591.5 | 1493.5 | 1382.8 | 1458.9 | 1406.8 | 1385.5 | 1478.5 | 1607.8 | 1735.2 |
| 50°   | 1920.1 | 1826.1 | 1710.0 | 1653.4 | 1635.8 | 1703.7 | 1568.3 | 1570.8 | 1655.9 | 1838.3 | 1984.3 |
| 52.5° | 2016.7 | 1916.4 | 1813.6 | 1784.8 | 1883.4 | 1922.6 | 1824.7 | 1810.0 | 1872.1 | 2087.7 | 2263.0 |
| 55°   | 2107.1 | 2000.6 | 1921.2 | 1979.9 | 2146.0 | 2150.4 | 2143.5 | 2061.6 | 2136.4 | 2354.9 | 2551.5 |
| 57.5° | 2130.3 | 2015.6 | 1962.8 | 2047.0 | 2271.7 | 2446.4 | 2515.1 | 2354.3 | 2430.5 | 2597.9 | 2798.6 |
| 60°   | 2010.8 | 1912.6 | 1891.5 | 2005.8 | 2339.6 | 2595.1 | 2774.4 | 2678.3 | 2649.7 | 2793.0 | 2971.6 |
| 62.5° | 1766.0 | 1652.1 | 1669.2 | 1828.0 | 2268.0 | 2653.9 | 2979.3 | 3054.3 | 2881.2 | 2948.2 | 3047.2 |
| 65°   | 1405.6 | 1296.9 | 1331.4 | 1522.4 | 2043.4 | 2673.5 | 3084.0 | 3237.8 | 2964.9 | 2992.1 | 2940.1 |
| 67.5° | 991.3  | 892.5  | 936.1  | 1183.1 | 1699.9 | 2423.0 | 3102.0 | 3152.3 | 2875.9 | 2866.9 | 2647.8 |
| 70°   | 561.6  | 499.7  | 546.9  | 752.9  | 1199.8 | 1930.2 | 2960.7 | 2894.5 | 2716.3 | 2588.5 | 2215.5 |
| 72.5° | 257.6  | 236.3  | 258.9  | 383.2  | 690.7  | 1284.4 | 2417.1 | 2477.1 | 2340.5 | 2180.7 | 1685.5 |
| 75°   | 137.0  | 129.5  | 139.1  | 191.4  | 323.2  | 698.8  | 1717.3 | 1852.4 | 1779.7 | 1654.0 | 1099.5 |
| 77.5° | 101.9  | 96.1   | 100.7  | 124.1  | 172.6  | 273.3  | 975.8  | 1146.1 | 1173.7 | 1058.0 | 610.5  |
| 80°   | 78.1   | 73.5   | 78.1   | 93.8   | 119.5  | 129.9  | 417.2  | 534.2  | 608.4  | 491.6  | 242.6  |
| 82.5° | 57.9   | 54.9   | 62.0   | 70.4   | 84.0   | 81.1   | 148.1  | 184.3  | 237.7  | 162.5  | 94.6   |
| 85°   | 46.0   | 42.2   | 44.9   | 47.8   | 53.7   | 44.5   | 67.7   | 75.8   | 80.2   | 67.1   | 34.9   |
| 87.5° | 18.0   | 16.7   | 32.6   | 25.7   | 21.9   | 13.4   | 20.3   | 23.0   | 23.6   | 22.6   | 10.2   |
| 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: P366770

CATALOG NUMBER: PMM-SA1B-730-U-T3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 197.8  | 197.8  | 197.8 | 197.8 | 197.8 | 197.8 | 197.8 | 197.8 | 197.8 | 197.8 | 197.8 |
| 2.5°  | 240.2  | 238.2  | 226.9 | 230.6 | 236.5 | 237.7 | 240.2 | 233.2 | 229.8 | 242.5 | 243.0 |
| 5°    | 310.2  | 299.8  | 294.4 | 295.0 | 291.2 | 285.2 | 294.2 | 300.2 | 302.5 | 311.9 | 315.3 |
| 7.5°  | 364.4  | 352.0  | 343.0 | 332.6 | 318.0 | 308.6 | 324.4 | 335.9 | 342.0 | 361.6 | 369.2 |
| 10°   | 388.6  | 378.6  | 376.7 | 363.7 | 363.3 | 363.1 | 362.3 | 358.3 | 371.5 | 369.6 | 375.0 |
| 12.5° | 438.5  | 436.4  | 418.2 | 413.0 | 413.6 | 413.0 | 396.9 | 396.1 | 396.3 | 413.9 | 407.6 |
| 15°   | 484.9  | 485.3  | 468.6 | 449.8 | 432.9 | 427.7 | 421.4 | 418.5 | 422.8 | 432.7 | 426.6 |
| 17.5° | 542.3  | 544.2  | 496.4 | 466.7 | 444.4 | 443.9 | 428.7 | 410.9 | 436.6 | 442.7 | 436.0 |
| 20°   | 579.3  | 571.2  | 512.5 | 462.7 | 456.3 | 439.1 | 420.3 | 395.7 | 418.0 | 432.9 | 437.1 |
| 22.5° | 614.4  | 600.4  | 527.5 | 469.8 | 439.4 | 418.9 | 400.7 | 384.8 | 391.9 | 408.6 | 405.9 |
| 25°   | 638.2  | 634.3  | 548.2 | 486.8 | 438.9 | 393.2 | 368.7 | 358.5 | 362.1 | 388.0 | 385.5 |
| 27.5° | 694.9  | 653.5  | 544.6 | 491.2 | 420.5 | 358.1 | 345.8 | 334.9 | 331.3 | 359.3 | 366.9 |
| 30°   | 732.9  | 715.9  | 568.9 | 484.3 | 397.2 | 329.3 | 311.3 | 309.0 | 310.2 | 342.0 | 344.1 |
| 32.5° | 797.4  | 753.1  | 608.8 | 457.9 | 363.5 | 308.1 | 287.3 | 288.3 | 293.5 | 316.7 | 321.5 |
| 35°   | 864.5  | 838.0  | 614.2 | 438.9 | 336.1 | 285.4 | 277.0 | 270.3 | 273.1 | 293.5 | 294.4 |
| 37.5° | 989.2  | 897.7  | 647.2 | 409.5 | 315.9 | 276.8 | 260.7 | 254.7 | 256.3 | 267.8 | 276.0 |
| 40°   | 1098.9 | 1017.6 | 631.8 | 381.1 | 291.0 | 265.3 | 245.1 | 240.7 | 236.1 | 247.4 | 252.6 |
| 42.5° | 1274.8 | 1103.1 | 626.7 | 349.9 | 279.3 | 249.7 | 235.9 | 224.2 | 219.8 | 229.4 | 238.8 |
| 45°   | 1450.7 | 1193.9 | 598.5 | 318.2 | 262.8 | 248.6 | 222.5 | 211.4 | 212.5 | 221.2 | 230.8 |
| 47.5° | 1646.7 | 1315.7 | 550.7 | 287.5 | 244.8 | 243.0 | 209.1 | 204.3 | 207.7 | 217.3 | 226.9 |
| 50°   | 1878.4 | 1444.9 | 511.2 | 259.9 | 231.9 | 226.3 | 207.4 | 201.6 | 204.9 | 216.2 | 225.6 |
| 52.5° | 2131.8 | 1586.7 | 482.4 | 234.4 | 217.3 | 213.1 | 209.7 | 204.1 | 207.9 | 217.7 | 227.5 |
| 55°   | 2383.7 | 1716.2 | 462.8 | 216.9 | 204.9 | 207.5 | 214.4 | 210.4 | 212.3 | 219.6 | 229.4 |
| 57.5° | 2570.5 | 1784.4 | 423.5 | 198.3 | 194.7 | 204.3 | 215.0 | 208.3 | 209.5 | 219.6 | 230.2 |
| 60°   | 2679.1 | 1797.5 | 358.9 | 183.2 | 186.6 | 197.8 | 209.1 | 200.4 | 199.7 | 216.4 | 229.6 |
| 62.5° | 2667.2 | 1721.7 | 284.7 | 169.4 | 177.4 | 188.0 | 200.1 | 191.8 | 193.9 | 216.8 | 230.8 |
| 65°   | 2496.8 | 1566.9 | 226.3 | 157.7 | 166.3 | 177.2 | 192.6 | 189.3 | 199.5 | 232.1 | 247.2 |
| 67.5° | 2197.6 | 1340.8 | 181.8 | 146.7 | 155.9 | 169.9 | 197.8 | 206.4 | 210.8 | 247.8 | 263.4 |
| 70°   | 1781.0 | 1041.7 | 151.5 | 137.1 | 147.7 | 173.4 | 212.7 | 211.0 | 207.4 | 240.3 | 252.6 |
| 72.5° | 1286.7 | 714.1  | 133.3 | 127.7 | 137.5 | 163.0 | 213.1 | 203.9 | 199.3 | 219.4 | 228.3 |
| 75°   | 805.0  | 426.0  | 116.4 | 115.9 | 122.0 | 146.2 | 203.5 | 195.3 | 182.8 | 192.8 | 204.3 |
| 77.5° | 459.8  | 218.1  | 98.0  | 103.2 | 106.8 | 126.8 | 182.2 | 174.7 | 163.6 | 167.8 | 179.2 |
| 80°   | 175.5  | 105.5  | 82.7  | 91.7  | 90.7  | 107.4 | 154.4 | 152.7 | 140.0 | 141.4 | 148.3 |
| 82.5° | 82.7   | 59.1   | 68.7  | 78.8  | 73.7  | 85.5  | 125.4 | 124.9 | 113.7 | 103.0 | 108.6 |
| 85°   | 30.7   | 31.5   | 50.3  | 60.0  | 51.2  | 55.2  | 90.7  | 88.2  | 77.5  | 65.4  | 72.3  |
| 87.5° | 6.9    | 11.3   | 24.7  | 31.3  | 17.8  | 17.1  | 36.6  | 31.8  | 30.7  | 18.2  | 19.2  |
| 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)