

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: P366994

Luminaire Tested: **PMM-SA1C-830-U-T4W**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1C-830-U-T4W  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

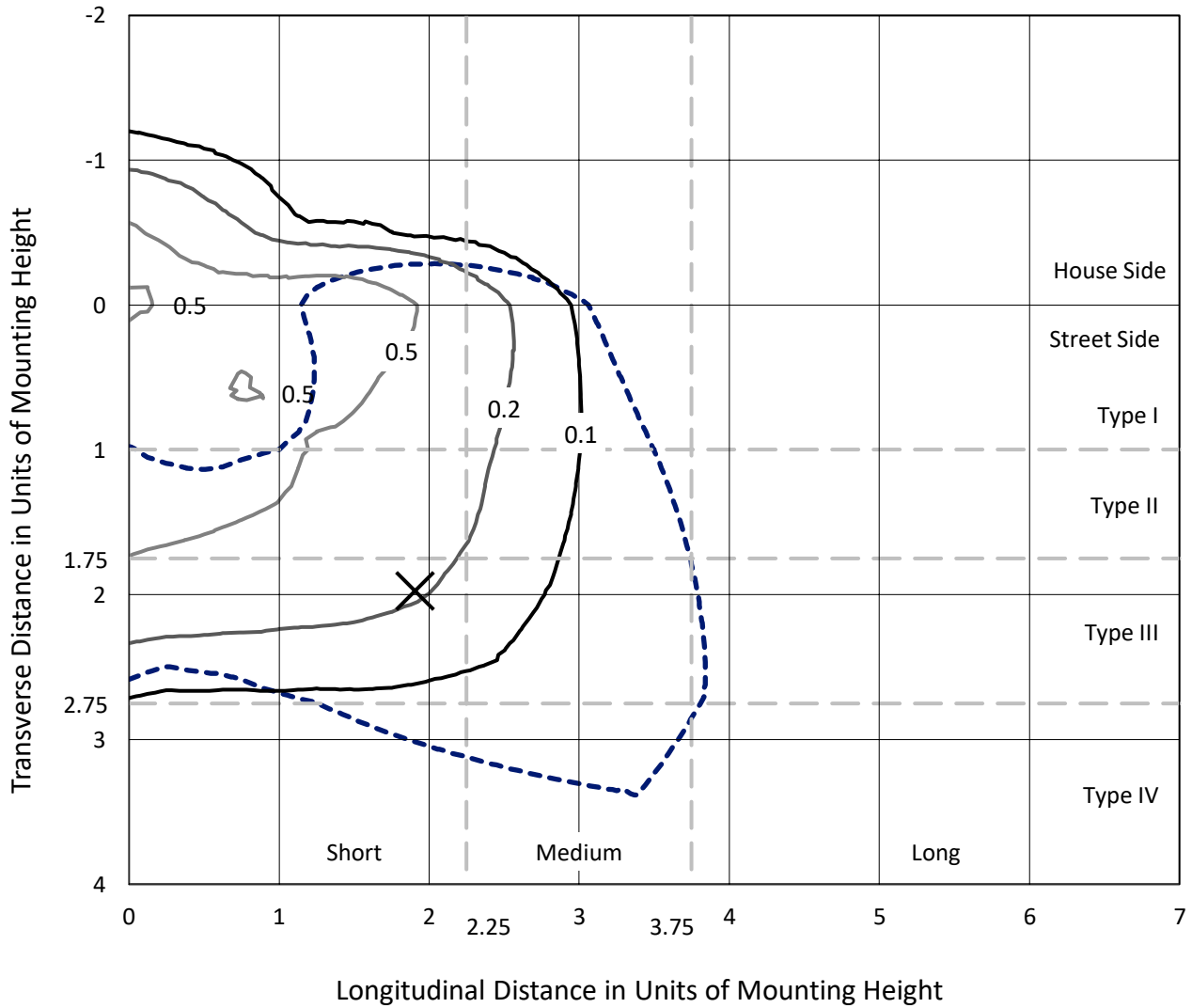
Lumens per Lamp: N/A  
Luminaire Lumens: 5053 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P366994  
 CATALOG NUMBER: PMM-SA1C-830-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

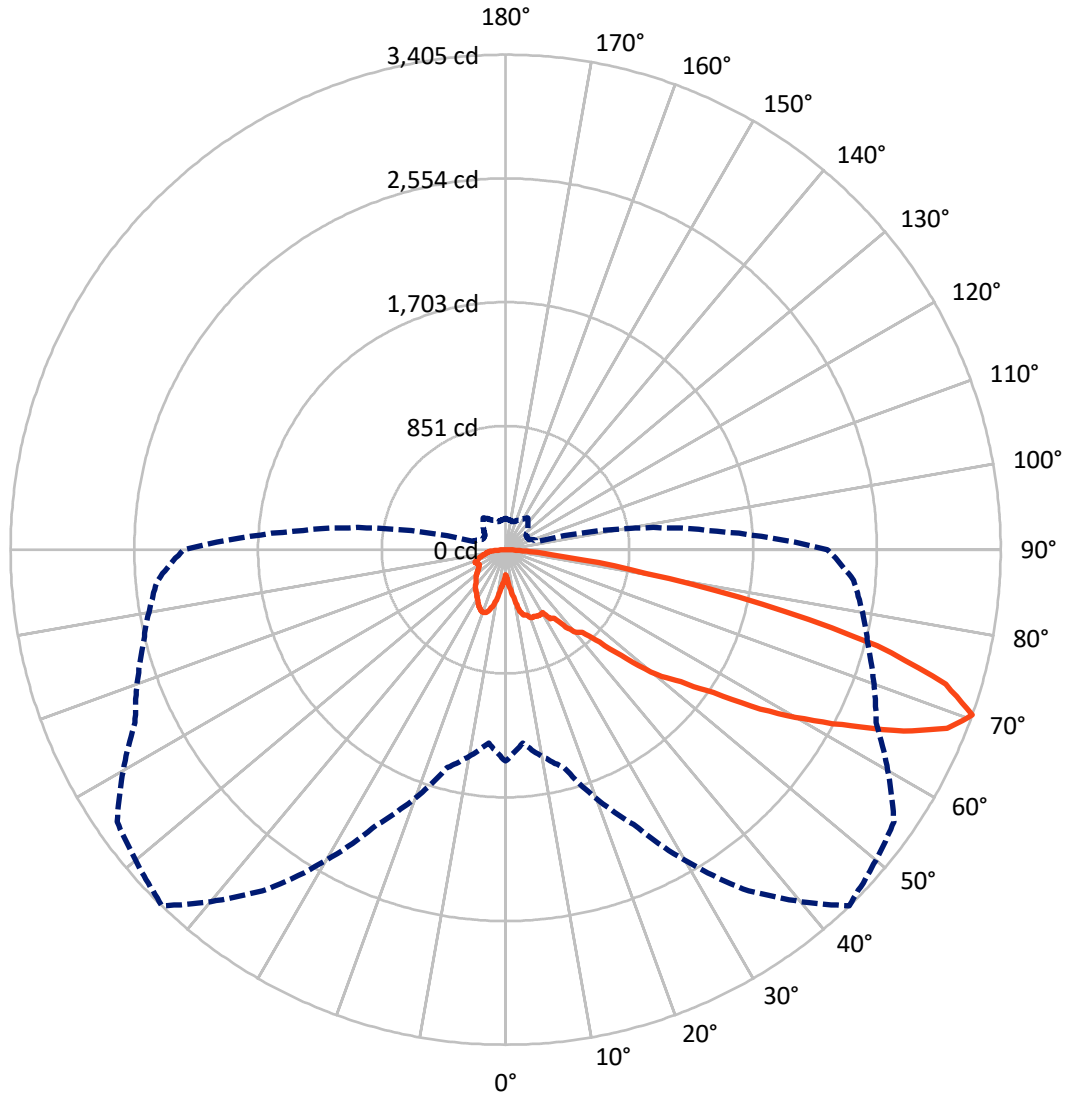
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P366994  
CATALOG NUMBER: PMM-SA1C-830-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P366994  
 CATALOG NUMBER: PMM-SA1C-830-U-T4W

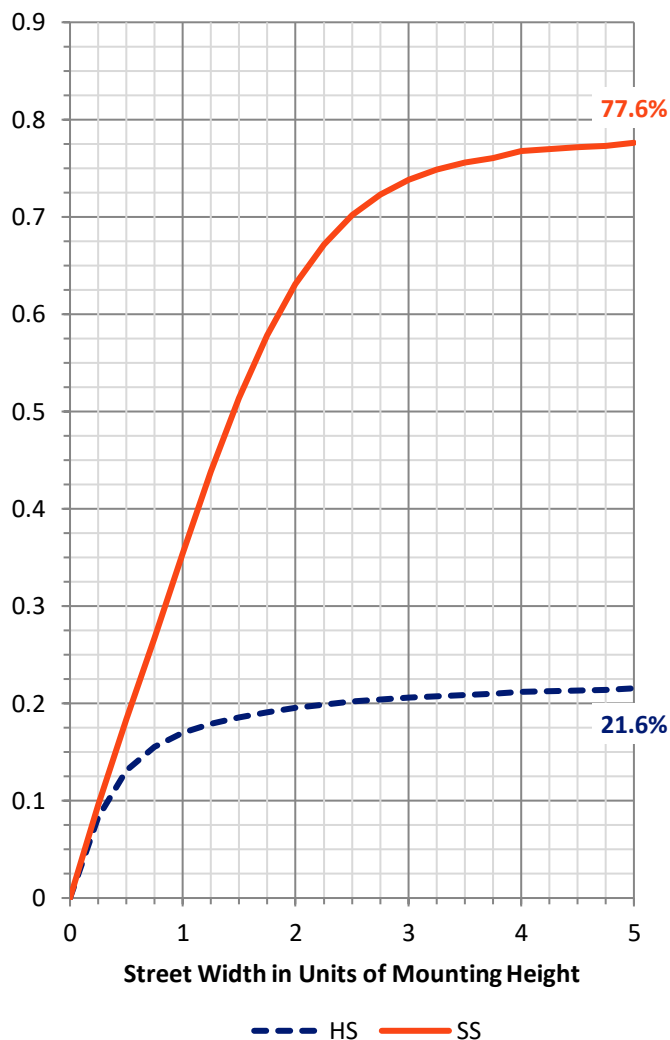
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1114.9   | 0.0    | 1114.9 |
|                    | % Fixture | 22.1     | 0.0    | 22.1   |
| <b>Street Side</b> | Lumens    | 3938.1   | 0.0    | 3938.1 |
|                    | % Fixture | 77.9     | 0.0    | 77.9   |
| <b>Total</b>       | Lumens    | 5053.0   | 0.0    | 5053.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 26.9   | 0.5       |
| 10°-20°   | 124.0  | 2.5       |
| 20°-30°   | 231.7  | 4.6       |
| 30°-40°   | 372.0  | 7.4       |
| 40°-50°   | 627.9  | 12.4      |
| 50°-60°   | 1118.9 | 22.1      |
| 60°-70°   | 1530.4 | 30.3      |
| 70°-80°   | 900.0  | 17.8      |
| 80°-90°   | 121.2  | 2.4       |
| 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°    | 5053.0 | 100.0     |
| 0°-180°   | 5053.0 | 100.0     |

**Coefficient of Utilization**

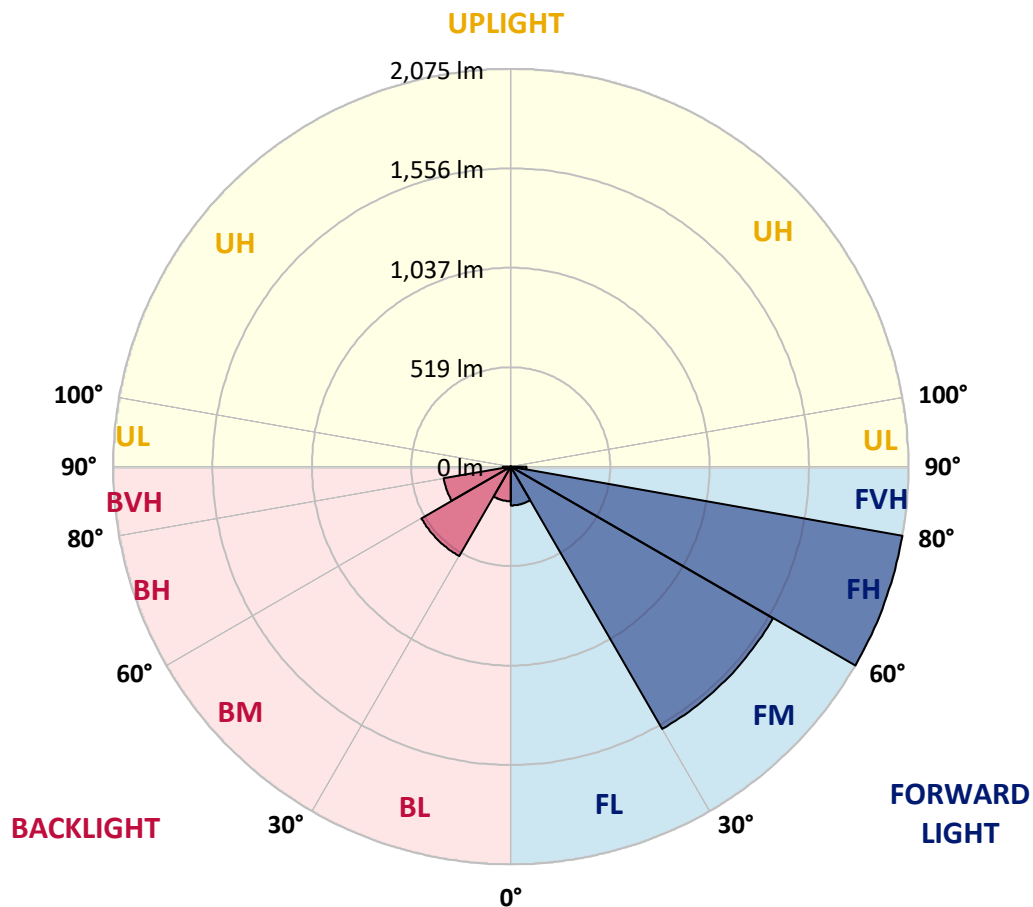


REPORT NUMBER: P366994  
 CATALOG NUMBER: PMM-SA1C-830-U-T4W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 202.5  | 4.0       |                         |      |         |
| FM (30°-60°)   | 1579.9 | 31.3      |                         |      |         |
| FH (60°-80°)   | 2074.9 | 41.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 80.8   | 1.6       |                         |      | G1/100  |
| BL (0°-30°)    | 180.2  | 3.6       | B1/500                  |      |         |
| BM (30°-60°)   | 538.8  | 10.7      | B1/1000                 |      |         |
| BH (60°-80°)   | 355.5  | 7.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 40.4   | 0.8       |                         |      | 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: P366994

CATALOG NUMBER: PMM-SA1C-830-U-T4W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 171.8  | 171.8  | 171.8  | 171.8  | 171.8  | 171.8  | 171.8  | 171.8  | 171.8  | 171.8  | 171.8  |
| 2.5°  | 208.4  | 204.3  | 194.3  | 197.7  | 201.8  | 203.5  | 203.0  | 202.6  | 196.2  | 193.9  | 205.3  |
| 5°    | 283.2  | 274.1  | 266.9  | 264.0  | 254.4  | 247.0  | 242.4  | 254.4  | 252.6  | 255.7  | 263.5  |
| 7.5°  | 353.7  | 347.9  | 331.5  | 325.7  | 306.2  | 293.4  | 291.9  | 301.5  | 303.9  | 299.0  | 312.4  |
| 10°   | 399.0  | 389.1  | 385.8  | 371.9  | 358.4  | 356.4  | 355.1  | 350.8  | 344.8  | 344.3  | 332.3  |
| 12.5° | 434.3  | 439.4  | 442.1  | 426.2  | 426.6  | 434.1  | 430.1  | 412.5  | 402.4  | 384.5  | 386.0  |
| 15°   | 497.5  | 504.9  | 483.6  | 473.4  | 453.9  | 465.1  | 463.7  | 449.0  | 447.5  | 435.9  | 422.5  |
| 17.5° | 552.6  | 555.9  | 520.2  | 497.0  | 490.4  | 474.3  | 478.6  | 479.0  | 460.0  | 480.7  | 468.7  |
| 20°   | 557.1  | 568.9  | 527.9  | 481.7  | 501.6  | 499.5  | 500.1  | 496.0  | 470.9  | 505.1  | 500.6  |
| 22.5° | 579.5  | 561.5  | 524.6  | 490.8  | 496.0  | 499.1  | 502.0  | 497.0  | 495.6  | 514.7  | 528.5  |
| 25°   | 575.4  | 569.6  | 532.3  | 503.7  | 504.3  | 504.9  | 506.4  | 521.3  | 519.6  | 545.5  | 552.8  |
| 27.5° | 614.1  | 605.2  | 534.5  | 527.5  | 511.3  | 507.8  | 497.9  | 528.9  | 553.2  | 552.6  | 592.6  |
| 30°   | 687.9  | 678.7  | 587.6  | 567.1  | 537.9  | 501.8  | 520.9  | 562.3  | 581.4  | 587.8  | 638.6  |
| 32.5° | 803.1  | 818.0  | 692.0  | 609.3  | 573.1  | 565.2  | 563.1  | 559.0  | 606.2  | 637.9  | 684.1  |
| 35°   | 968.4  | 956.6  | 815.1  | 699.9  | 610.2  | 576.4  | 581.0  | 606.2  | 662.4  | 682.9  | 725.6  |
| 37.5° | 1157.8 | 1133.3 | 972.7  | 802.4  | 717.1  | 674.8  | 659.7  | 684.1  | 696.6  | 712.7  | 799.9  |
| 40°   | 1350.2 | 1290.6 | 1127.5 | 937.3  | 781.3  | 749.4  | 736.1  | 706.1  | 735.3  | 768.0  | 878.9  |
| 42.5° | 1536.1 | 1489.9 | 1296.0 | 1098.3 | 889.5  | 775.7  | 768.5  | 739.0  | 829.6  | 864.2  | 992.8  |
| 45°   | 1730.8 | 1623.7 | 1468.5 | 1280.0 | 1047.5 | 904.8  | 894.0  | 841.2  | 957.2  | 1029.3 | 1153.6 |
| 47.5° | 1861.8 | 1762.5 | 1626.6 | 1427.5 | 1179.9 | 1120.7 | 1100.2 | 1009.8 | 1115.1 | 1208.7 | 1402.0 |
| 50°   | 1985.7 | 1883.5 | 1740.8 | 1588.9 | 1419.6 | 1351.5 | 1307.8 | 1157.3 | 1311.7 | 1464.2 | 1720.5 |
| 52.5° | 2163.0 | 2071.7 | 1873.4 | 1751.6 | 1677.2 | 1509.6 | 1477.0 | 1394.4 | 1541.7 | 1747.4 | 2068.6 |
| 55°   | 2352.6 | 2228.1 | 2048.5 | 1980.9 | 1950.9 | 1736.2 | 1709.7 | 1657.1 | 1847.9 | 2037.3 | 2406.9 |
| 57.5° | 2436.3 | 2306.4 | 2207.4 | 2167.0 | 2164.5 | 2065.7 | 2035.2 | 1998.5 | 2161.0 | 2285.9 | 2725.3 |
| 60°   | 2502.8 | 2363.4 | 2323.8 | 2346.4 | 2428.4 | 2363.4 | 2323.8 | 2291.5 | 2415.8 | 2531.6 | 2985.2 |
| 62.5° | 2490.6 | 2350.7 | 2371.0 | 2439.8 | 2649.3 | 2668.4 | 2637.9 | 2559.6 | 2668.4 | 2733.0 | 3134.1 |
| 65°   | 2293.4 | 2164.1 | 2282.4 | 2445.6 | 2854.6 | 3006.9 | 3005.2 | 2800.3 | 2838.0 | 2838.0 | 3118.4 |
| 67.5° | 1947.8 | 1813.9 | 2007.6 | 2394.5 | 2996.5 | 3275.2 | 3275.6 | 3055.6 | 2853.6 | 2827.5 | 2874.7 |
| 70°   | 1454.5 | 1333.2 | 1551.0 | 2085.3 | 2850.1 | 3405.1 | 3386.3 | 3261.5 | 2810.9 | 2582.8 | 2401.3 |
| 72.5° | 868.7  | 790.4  | 990.8  | 1518.1 | 2431.1 | 3166.2 | 3216.4 | 3024.3 | 2573.3 | 2147.9 | 1716.5 |
| 75°   | 394.5  | 360.5  | 465.5  | 872.1  | 1735.6 | 2641.0 | 2695.5 | 2552.3 | 2043.9 | 1544.8 | 992.0  |
| 77.5° | 168.9  | 159.7  | 203.3  | 386.8  | 957.0  | 1806.1 | 1917.7 | 1824.1 | 1384.8 | 897.7  | 438.8  |
| 80°   | 108.6  | 102.8  | 124.9  | 186.1  | 444.4  | 975.9  | 1072.0 | 1037.0 | 705.5  | 349.1  | 154.6  |
| 82.5° | 64.8   | 63.0   | 83.5   | 116.9  | 242.4  | 429.5  | 484.0  | 496.8  | 293.0  | 156.6  | 88.5   |
| 85°   | 35.4   | 35.8   | 45.8   | 70.9   | 145.4  | 167.2  | 179.0  | 194.8  | 138.0  | 90.7   | 42.9   |
| 87.5° | 11.8   | 13.7   | 18.4   | 28.8   | 51.8   | 47.2   | 47.4   | 55.1   | 58.2   | 37.7   | 13.7   |
| 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: P366994  
 CATALOG NUMBER: PMM-SA1C-830-U-T4W

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 171.8  | 171.8  | 171.8 | 171.8 | 171.8 | 171.8 | 171.8 | 171.8 | 171.8 | 171.8 | 171.8 |
| 2.5°  | 207.2  | 203.5  | 193.9 | 194.5 | 198.1 | 198.9 | 199.9 | 193.9 | 192.7 | 204.1 | 205.1 |
| 5°    | 264.8  | 252.6  | 247.0 | 245.1 | 239.7 | 237.9 | 247.8 | 252.4 | 256.9 | 265.8 | 270.2 |
| 7.5°  | 311.0  | 297.3  | 287.2 | 277.8 | 270.0 | 265.4 | 282.2 | 295.0 | 302.9 | 321.1 | 329.4 |
| 10°   | 332.1  | 320.3  | 316.6 | 309.1 | 315.1 | 328.8 | 331.9 | 332.3 | 349.7 | 349.3 | 352.8 |
| 12.5° | 374.2  | 366.5  | 354.3 | 357.0 | 372.7 | 386.8 | 382.9 | 388.9 | 395.1 | 410.0 | 403.2 |
| 15°   | 412.5  | 410.4  | 399.0 | 400.9 | 404.0 | 421.6 | 423.9 | 429.9 | 439.4 | 451.3 | 443.2 |
| 17.5° | 459.7  | 458.9  | 431.2 | 428.7 | 435.9 | 453.1 | 447.7 | 437.2 | 468.7 | 481.3 | 478.0 |
| 20°   | 491.9  | 485.6  | 450.0 | 439.4 | 457.9 | 460.2 | 453.9 | 437.2 | 464.5 | 492.1 | 499.5 |
| 22.5° | 518.6  | 511.3  | 474.7 | 453.9 | 450.2 | 451.3 | 451.3 | 448.1 | 461.6 | 484.2 | 484.0 |
| 25°   | 540.1  | 547.0  | 500.4 | 480.5 | 460.6 | 435.7 | 432.6 | 435.3 | 443.0 | 486.5 | 485.0 |
| 27.5° | 594.2  | 575.4  | 509.1 | 494.1 | 453.3 | 414.2 | 422.7 | 426.8 | 429.3 | 476.9 | 484.8 |
| 30°   | 629.4  | 635.2  | 540.1 | 502.2 | 442.8 | 390.1 | 393.0 | 405.1 | 419.6 | 475.9 | 478.2 |
| 32.5° | 676.9  | 664.4  | 588.6 | 488.8 | 414.6 | 375.6 | 370.2 | 386.4 | 408.0 | 459.1 | 465.3 |
| 35°   | 721.0  | 735.7  | 609.1 | 486.3 | 394.9 | 353.9 | 359.7 | 365.3 | 387.6 | 440.5 | 447.7 |
| 37.5° | 824.6  | 791.0  | 666.7 | 474.3 | 378.5 | 342.9 | 336.7 | 345.2 | 364.2 | 405.1 | 421.8 |
| 40°   | 903.3  | 905.4  | 679.2 | 459.1 | 347.2 | 327.1 | 313.9 | 322.4 | 330.5 | 363.0 | 370.2 |
| 42.5° | 1051.1 | 1005.9 | 709.6 | 426.0 | 327.6 | 303.5 | 296.1 | 299.8 | 301.0 | 314.7 | 326.7 |
| 45°   | 1239.0 | 1133.1 | 721.6 | 381.4 | 301.7 | 293.8 | 278.7 | 276.8 | 270.0 | 271.8 | 282.4 |
| 47.5° | 1499.0 | 1331.6 | 712.9 | 334.0 | 278.7 | 281.2 | 259.4 | 250.9 | 241.4 | 243.7 | 253.6 |
| 50°   | 1835.3 | 1585.2 | 712.3 | 293.8 | 262.9 | 264.6 | 246.8 | 231.4 | 221.9 | 226.7 | 235.4 |
| 52.5° | 2212.6 | 1839.6 | 715.2 | 266.2 | 245.7 | 244.9 | 238.5 | 219.8 | 212.2 | 217.1 | 227.1 |
| 55°   | 2573.5 | 2058.4 | 736.8 | 248.8 | 227.9 | 229.4 | 231.8 | 216.1 | 207.6 | 212.2 | 222.5 |
| 57.5° | 2887.6 | 2231.2 | 728.7 | 230.4 | 211.3 | 218.0 | 224.6 | 210.9 | 204.5 | 211.1 | 221.5 |
| 60°   | 3107.2 | 2311.4 | 664.9 | 212.8 | 199.1 | 208.2 | 221.1 | 210.3 | 209.5 | 223.8 | 236.2 |
| 62.5° | 3187.4 | 2281.8 | 540.6 | 198.9 | 191.9 | 207.0 | 229.1 | 224.0 | 224.8 | 242.4 | 259.6 |
| 65°   | 3070.3 | 2125.9 | 403.2 | 190.0 | 186.3 | 213.0 | 247.8 | 232.0 | 220.7 | 235.2 | 250.9 |
| 67.5° | 2737.4 | 1848.9 | 294.6 | 182.3 | 179.8 | 222.5 | 265.0 | 231.2 | 210.1 | 224.8 | 237.6 |
| 70°   | 2214.6 | 1459.4 | 228.1 | 172.6 | 171.3 | 216.1 | 266.6 | 225.0 | 198.7 | 208.2 | 215.5 |
| 72.5° | 1517.4 | 999.3  | 189.0 | 163.3 | 156.6 | 191.4 | 253.2 | 211.1 | 185.0 | 190.6 | 196.6 |
| 75°   | 848.0  | 560.9  | 158.9 | 151.7 | 137.2 | 170.5 | 237.4 | 202.8 | 174.9 | 176.5 | 184.8 |
| 77.5° | 380.6  | 242.6  | 134.9 | 136.3 | 119.5 | 150.8 | 216.9 | 189.6 | 159.3 | 155.6 | 163.9 |
| 80°   | 144.0  | 118.3  | 109.4 | 115.2 | 100.5 | 130.7 | 195.6 | 177.6 | 143.0 | 138.2 | 143.0 |
| 82.5° | 83.5   | 71.7   | 81.2  | 88.7  | 79.8  | 120.2 | 186.7 | 166.6 | 126.0 | 114.0 | 118.1 |
| 85°   | 38.7   | 37.1   | 48.7  | 57.6  | 55.7  | 93.6  | 159.7 | 125.3 | 89.7  | 75.8  | 83.9  |
| 87.5° | 10.2   | 11.4   | 17.2  | 20.3  | 20.7  | 32.1  | 61.5  | 46.6  | 35.0  | 26.5  | 25.5  |
| 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)