

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P367383

Luminaire Tested: **PMM-SA2B-830-U-T2-HSS**

Issue Date: 12/2/2019

Report Generated By 670245982

**Test Information**

Test Method: LM-79-08  
Report Number: P367383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA2B-830-U-T2-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

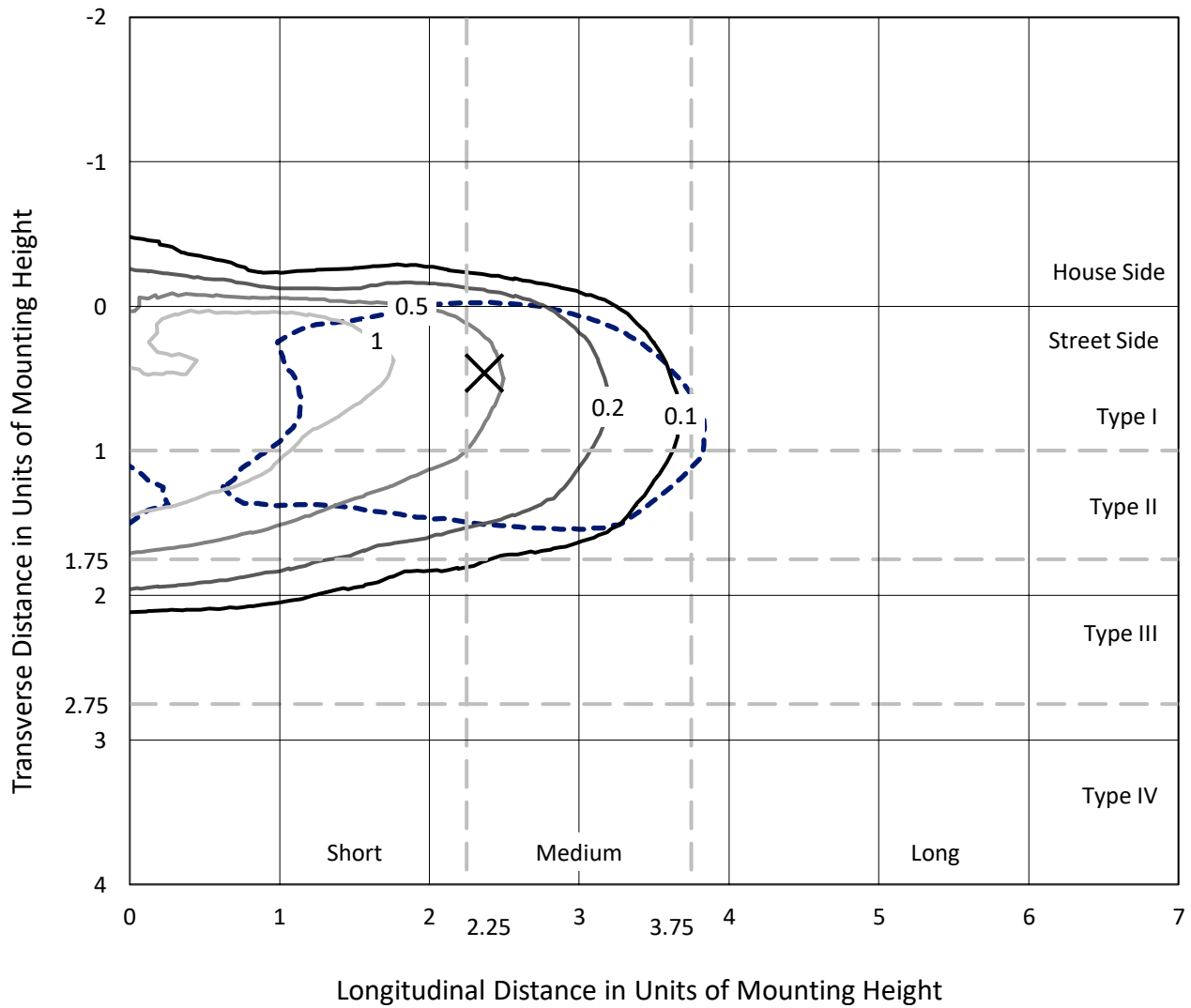
Lumens per Lamp: N/A  
Luminaire Lumens: 5970 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: P367383  
 CATALOG NUMBER: PMM-SA2B-830-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

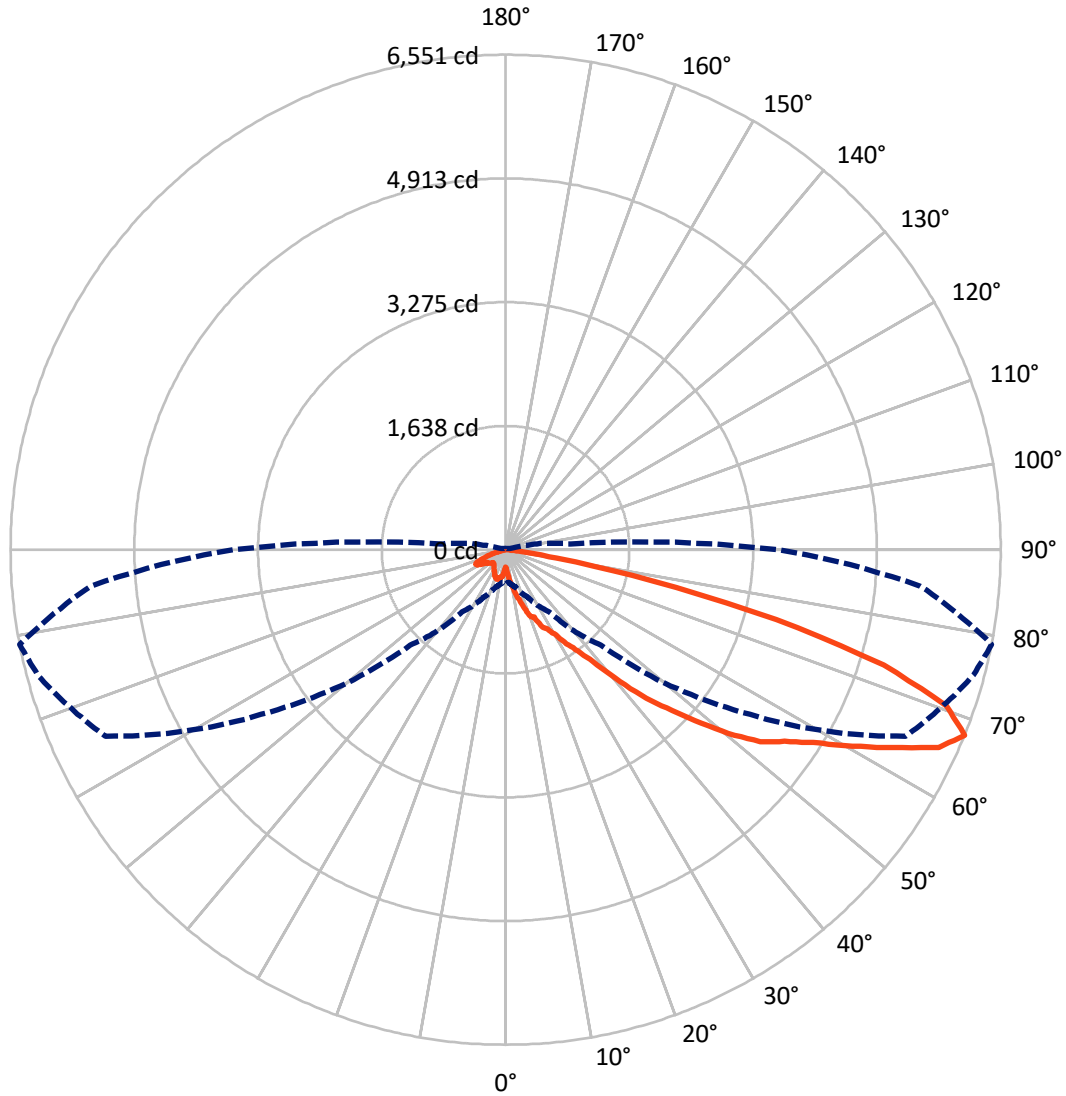
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P367383  
CATALOG NUMBER: PMM-SA2B-830-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P367383  
 CATALOG NUMBER: PMM-SA2B-830-U-T2-HSS

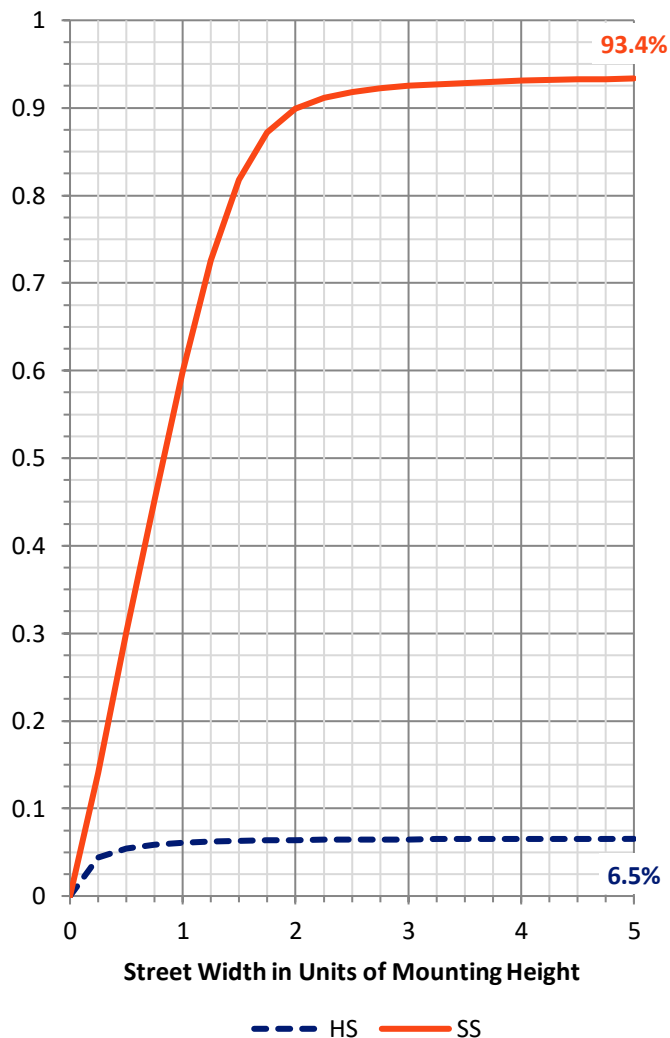
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 392.3    | 0.0    | 392.3  |
|                    | % Fixture | 6.6      | 0.0    | 6.6    |
| <b>Street Side</b> | Lumens    | 5577.7   | 0.0    | 5577.7 |
|                    | % Fixture | 93.4     | 0.0    | 93.4   |
| <b>Total</b>       | Lumens    | 5970.0   | 0.0    | 5970.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.5   | 0.6       |
| 10°-20°   | 133.4  | 2.2       |
| 20°-30°   | 257.4  | 4.3       |
| 30°-40°   | 505.5  | 8.5       |
| 40°-50°   | 1012.7 | 17.0      |
| 50°-60°   | 1618.7 | 27.1      |
| 60°-70°   | 1628.7 | 27.3      |
| 70°-80°   | 734.7  | 12.3      |
| 80°-90°   | 45.5   | 0.8       |
| 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°    | 5970.0 | 100.0     |
| 0°-180°   | 5970.0 | 100.0     |

**Coefficient of Utilization**

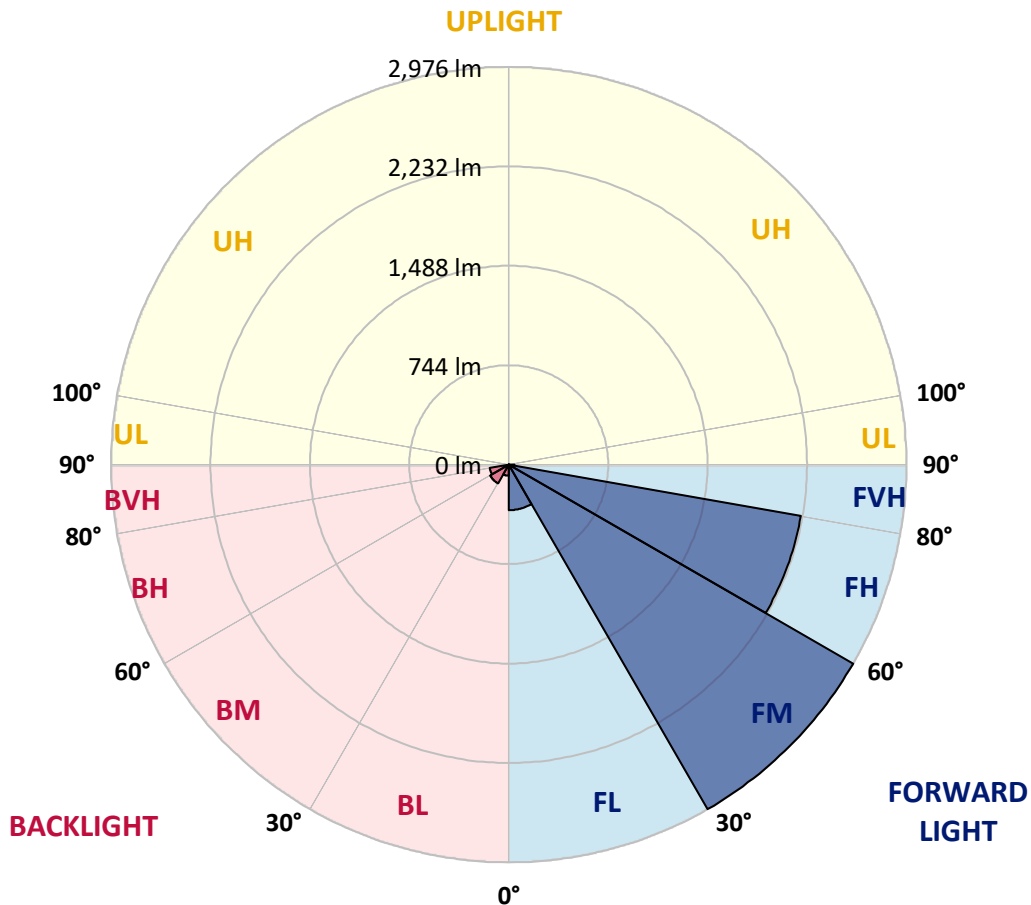


REPORT NUMBER: P367383  
 CATALOG NUMBER: PMM-SA2B-830-U-T2-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 340.8  | 5.7       |                         |      |         |
| FM (30°-60°)   | 2975.5 | 49.8      |                         |      |         |
| FH (60°-80°)   | 2218.8 | 37.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 42.6   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 83.4   | 1.4       | B0/110                  |      |         |
| BM (30°-60°)   | 161.4  | 2.7       | B0/220                  |      |         |
| BH (60°-80°)   | 144.6  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.9    | 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 II Medium





REPORT NUMBER: P367383

CATALOG NUMBER: PMM-SA2B-830-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 79°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 230.0  | 230.0  | 230.0  | 230.0  | 230.0  | 230.0  | 230.0  | 230.0  | 230.0  | 230.0  | 230.0  |
| 2.5°  | 310.7  | 299.5  | 281.4  | 291.6  | 290.9  | 296.2  | 286.3  | 275.5  | 258.0  | 275.5  | 276.8  |
| 5°    | 447.2  | 426.5  | 413.3  | 410.7  | 396.2  | 382.7  | 379.8  | 368.6  | 360.0  | 344.6  | 358.4  |
| 7.5°  | 557.2  | 547.6  | 524.3  | 521.6  | 486.1  | 466.3  | 472.6  | 467.6  | 435.1  | 418.9  | 432.4  |
| 10°   | 603.9  | 587.4  | 590.7  | 587.4  | 572.3  | 577.9  | 565.1  | 550.3  | 524.3  | 497.6  | 464.0  |
| 12.5° | 622.0  | 619.4  | 646.7  | 643.4  | 678.9  | 721.7  | 693.1  | 668.4  | 608.2  | 601.6  | 555.8  |
| 15°   | 660.8  | 677.3  | 673.3  | 687.2  | 709.9  | 782.6  | 781.9  | 787.9  | 724.0  | 689.8  | 623.6  |
| 17.5° | 695.4  | 707.6  | 687.8  | 703.6  | 765.5  | 809.6  | 868.5  | 845.5  | 852.7  | 817.8  | 715.5  |
| 20°   | 680.6  | 694.4  | 674.7  | 665.1  | 774.0  | 857.6  | 936.3  | 919.5  | 962.9  | 941.2  | 800.0  |
| 22.5° | 773.1  | 747.1  | 697.4  | 666.4  | 747.7  | 856.6  | 960.3  | 1030.4 | 1022.8 | 969.5  | 878.7  |
| 25°   | 887.2  | 871.5  | 811.9  | 757.3  | 764.5  | 850.7  | 1036.0 | 1139.0 | 1161.4 | 1138.7 | 953.4  |
| 27.5° | 1041.3 | 1037.6 | 915.9  | 892.2  | 821.8  | 824.7  | 1047.8 | 1275.9 | 1224.9 | 1189.4 | 1040.6 |
| 30°   | 1242.3 | 1213.7 | 1069.2 | 1038.3 | 934.3  | 883.3  | 1120.3 | 1394.1 | 1356.5 | 1308.2 | 1122.6 |
| 32.5° | 1458.6 | 1462.8 | 1278.5 | 1176.5 | 1092.9 | 1032.4 | 1091.6 | 1449.3 | 1519.4 | 1480.3 | 1224.9 |
| 35°   | 1704.1 | 1723.2 | 1497.7 | 1377.9 | 1215.4 | 1126.2 | 1214.7 | 1619.2 | 1744.9 | 1641.9 | 1362.1 |
| 37.5° | 2082.2 | 2081.5 | 1818.3 | 1579.7 | 1461.5 | 1364.8 | 1419.7 | 1773.5 | 2022.0 | 1877.2 | 1608.3 |
| 40°   | 2414.9 | 2342.5 | 2097.7 | 1823.5 | 1639.2 | 1612.9 | 1573.1 | 1984.8 | 2317.8 | 2230.6 | 1827.2 |
| 42.5° | 2663.4 | 2612.4 | 2316.5 | 2103.3 | 1874.9 | 1791.3 | 1777.1 | 2294.5 | 2754.6 | 2632.5 | 2139.5 |
| 45°   | 2960.6 | 2793.4 | 2575.5 | 2383.3 | 2150.7 | 2126.3 | 2093.1 | 2608.8 | 3262.7 | 2987.6 | 2411.0 |
| 47.5° | 3226.8 | 3069.5 | 2863.5 | 2616.7 | 2349.4 | 2550.2 | 2422.5 | 2884.9 | 3632.3 | 3373.9 | 2710.5 |
| 50°   | 3450.9 | 3283.7 | 3053.0 | 2865.1 | 2750.6 | 2886.8 | 2673.9 | 3112.3 | 4031.5 | 3822.1 | 2990.5 |
| 52.5° | 3565.1 | 3375.9 | 3197.5 | 3081.3 | 3151.4 | 3120.8 | 3014.9 | 3387.7 | 4371.7 | 4215.1 | 3238.7 |
| 55°   | 3471.3 | 3286.4 | 3211.7 | 3269.3 | 3482.2 | 3393.7 | 3402.2 | 3814.6 | 4692.9 | 4477.1 | 3454.5 |
| 57.5° | 3055.3 | 2886.5 | 2919.8 | 3077.4 | 3485.5 | 3717.2 | 3843.9 | 4229.2 | 4950.6 | 4803.5 | 3787.6 |
| 60°   | 2311.3 | 2175.3 | 2298.4 | 2578.2 | 3157.7 | 3652.7 | 4157.2 | 4643.9 | 5318.9 | 5272.8 | 4291.8 |
| 62.5° | 1411.5 | 1337.8 | 1512.2 | 1861.1 | 2516.3 | 3336.4 | 4339.8 | 5196.8 | 5712.8 | 5761.9 | 4826.6 |
| 65°   | 720.1  | 686.8  | 832.3  | 1139.0 | 1700.1 | 2740.7 | 4207.8 | 5540.4 | 6119.9 | 6300.9 | 5336.3 |
| 67.5° | 453.5  | 432.1  | 509.8  | 694.7  | 1003.1 | 1787.7 | 3684.3 | 5840.8 | 6407.5 | 6550.7 | 5506.5 |
| 70°   | 314.3  | 300.8  | 367.9  | 476.9  | 632.9  | 962.9  | 2735.5 | 5560.4 | 6179.5 | 6186.1 | 5094.8 |
| 72.5° | 199.4  | 188.9  | 254.4  | 353.1  | 467.0  | 497.3  | 1568.2 | 4363.2 | 5289.6 | 5228.7 | 4125.9 |
| 75°   | 129.3  | 124.1  | 161.6  | 258.7  | 358.7  | 306.7  | 775.0  | 2944.1 | 3792.9 | 3697.4 | 2740.4 |
| 77.5° | 92.8   | 89.5   | 108.3  | 172.8  | 255.4  | 214.6  | 347.5  | 1754.8 | 2174.7 | 1966.0 | 1330.2 |
| 80°   | 55.9   | 55.6   | 78.3   | 108.3  | 181.7  | 151.4  | 160.6  | 796.7  | 843.1  | 687.5  | 406.4  |
| 82.5° | 28.0   | 29.0   | 43.8   | 69.8   | 116.8  | 99.1   | 73.4   | 265.3  | 226.4  | 166.9  | 82.3   |
| 85°   | 6.6    | 8.2    | 23.0   | 48.0   | 58.6   | 39.5   | 34.9   | 69.4   | 62.2   | 47.1   | 24.0   |
| 87.5° | 0.0    | 0.0    | 7.2    | 11.5   | 15.8   | 6.6    | 11.8   | 13.2   | 16.8   | 13.2   | 4.9    |
| 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: P367383

CATALOG NUMBER: PMM-SA2B-830-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 230.0  | 230.0 | 230.0 | 230.0 | 230.0 | 230.0 | 230.0 | 230.0 | 230.0 | 230.0 | 230.0 |
| 2.5°  | 277.1  | 273.2 | 249.1 | 242.9 | 242.2 | 235.3 | 237.0 | 230.4 | 230.7 | 245.5 | 245.5 |
| 5°    | 353.1  | 330.1 | 307.0 | 286.6 | 272.8 | 253.1 | 245.8 | 242.9 | 240.2 | 246.2 | 249.8 |
| 7.5°  | 414.7  | 380.8 | 339.3 | 294.9 | 253.7 | 225.4 | 221.5 | 214.2 | 211.6 | 217.5 | 222.1 |
| 10°   | 442.0  | 399.9 | 342.9 | 278.1 | 239.6 | 216.5 | 197.5 | 187.3 | 185.3 | 185.0 | 186.6 |
| 12.5° | 499.9  | 447.6 | 346.9 | 271.8 | 230.0 | 204.7 | 183.0 | 165.9 | 150.1 | 151.7 | 150.1 |
| 15°   | 546.3  | 484.4 | 346.9 | 256.7 | 207.0 | 181.7 | 143.5 | 134.9 | 132.6 | 136.2 | 133.3 |
| 17.5° | 616.4  | 521.0 | 329.4 | 229.7 | 187.3 | 141.2 | 126.7 | 126.0 | 130.7 | 135.9 | 132.6 |
| 20°   | 658.5  | 525.9 | 300.1 | 198.8 | 153.7 | 122.4 | 117.2 | 111.9 | 118.5 | 122.8 | 121.1 |
| 22.5° | 702.3  | 526.2 | 270.8 | 182.3 | 123.7 | 111.6 | 103.0 | 98.7  | 99.7  | 103.7 | 104.3 |
| 25°   | 721.1  | 513.4 | 243.5 | 160.6 | 112.2 | 99.7  | 90.8  | 86.2  | 84.6  | 86.6  | 85.9  |
| 27.5° | 772.1  | 488.7 | 213.9 | 136.9 | 106.6 | 88.5  | 80.3  | 74.7  | 69.8  | 73.1  | 73.7  |
| 30°   | 779.3  | 480.8 | 197.8 | 121.8 | 99.4  | 78.3  | 71.1  | 65.2  | 61.5  | 66.1  | 66.1  |
| 32.5° | 802.3  | 437.4 | 189.6 | 115.5 | 91.8  | 72.4  | 62.5  | 58.3  | 57.6  | 60.6  | 60.9  |
| 35°   | 837.9  | 418.3 | 177.4 | 110.6 | 84.9  | 65.5  | 56.3  | 54.3  | 53.6  | 55.9  | 55.9  |
| 37.5° | 958.3  | 394.6 | 163.9 | 106.3 | 79.0  | 61.9  | 54.6  | 51.3  | 51.7  | 53.6  | 55.0  |
| 40°   | 1038.3 | 397.6 | 143.8 | 101.0 | 72.1  | 58.6  | 51.3  | 49.0  | 48.7  | 49.7  | 50.7  |
| 42.5° | 1186.7 | 399.9 | 134.9 | 95.4  | 66.8  | 54.6  | 48.0  | 46.4  | 45.1  | 46.1  | 47.1  |
| 45°   | 1352.6 | 412.0 | 130.3 | 90.8  | 63.8  | 52.3  | 45.1  | 44.1  | 41.1  | 41.8  | 43.1  |
| 47.5° | 1512.5 | 456.5 | 124.7 | 84.2  | 61.2  | 51.0  | 42.1  | 39.8  | 37.8  | 37.5  | 38.8  |
| 50°   | 1694.2 | 499.6 | 118.5 | 77.0  | 58.6  | 49.0  | 39.2  | 35.5  | 34.2  | 34.2  | 35.2  |
| 52.5° | 1856.8 | 540.7 | 112.6 | 72.1  | 56.6  | 45.4  | 36.5  | 32.9  | 31.9  | 31.9  | 33.2  |
| 55°   | 2027.9 | 583.8 | 107.3 | 67.5  | 54.0  | 41.8  | 34.2  | 30.9  | 30.6  | 29.9  | 30.9  |
| 57.5° | 2330.0 | 677.9 | 100.7 | 63.5  | 50.4  | 38.8  | 32.3  | 29.0  | 28.3  | 27.3  | 28.3  |
| 60°   | 2770.0 | 822.4 | 92.1  | 59.6  | 46.1  | 36.9  | 30.6  | 26.7  | 25.7  | 24.0  | 24.4  |
| 62.5° | 3200.2 | 939.2 | 82.3  | 54.6  | 42.1  | 34.9  | 28.0  | 24.0  | 22.4  | 20.4  | 20.7  |
| 65°   | 3568.7 | 985.3 | 71.7  | 48.7  | 38.2  | 30.3  | 24.4  | 21.1  | 18.8  | 16.1  | 15.8  |
| 67.5° | 3612.2 | 870.1 | 61.5  | 43.1  | 34.2  | 25.7  | 20.7  | 18.8  | 15.1  | 12.8  | 12.2  |
| 70°   | 3250.8 | 648.3 | 51.3  | 38.2  | 29.6  | 21.7  | 17.8  | 16.5  | 14.2  | 12.2  | 11.2  |
| 72.5° | 2588.7 | 478.5 | 43.1  | 33.9  | 26.0  | 18.4  | 15.1  | 15.5  | 14.2  | 11.8  | 10.5  |
| 75°   | 1712.0 | 273.8 | 35.2  | 28.3  | 21.7  | 14.8  | 13.8  | 13.8  | 13.5  | 11.2  | 9.9   |
| 77.5° | 823.7  | 118.1 | 27.0  | 22.4  | 17.4  | 11.2  | 12.5  | 12.5  | 12.8  | 10.2  | 8.2   |
| 80°   | 233.7  | 35.5  | 16.8  | 15.1  | 12.8  | 7.6   | 9.9   | 9.5   | 8.6   | 5.9   | 3.6   |
| 82.5° | 41.8   | 13.8  | 7.6   | 7.9   | 7.2   | 3.0   | 5.6   | 5.3   | 4.3   | 2.3   | 0.3   |
| 85°   | 11.5   | 5.3   | 4.3   | 4.6   | 3.6   | 1.0   | 2.3   | 3.0   | 2.3   | 1.3   | 0.0   |
| 87.5° | 3.0    | 2.3   | 3.0   | 3.3   | 2.6   | 0.3   | 1.0   | 0.3   | 1.0   | 0.3   | 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)