

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: P368179

Luminaire Tested: **PMM-SA3D-830-U-T4FT-HSS**

Issue Date: 12/2/2019

Report Generated By 670245982

**Test Information**

Test Method: LM-79-08  
Report Number: P368179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3D-830-U-T4FT-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

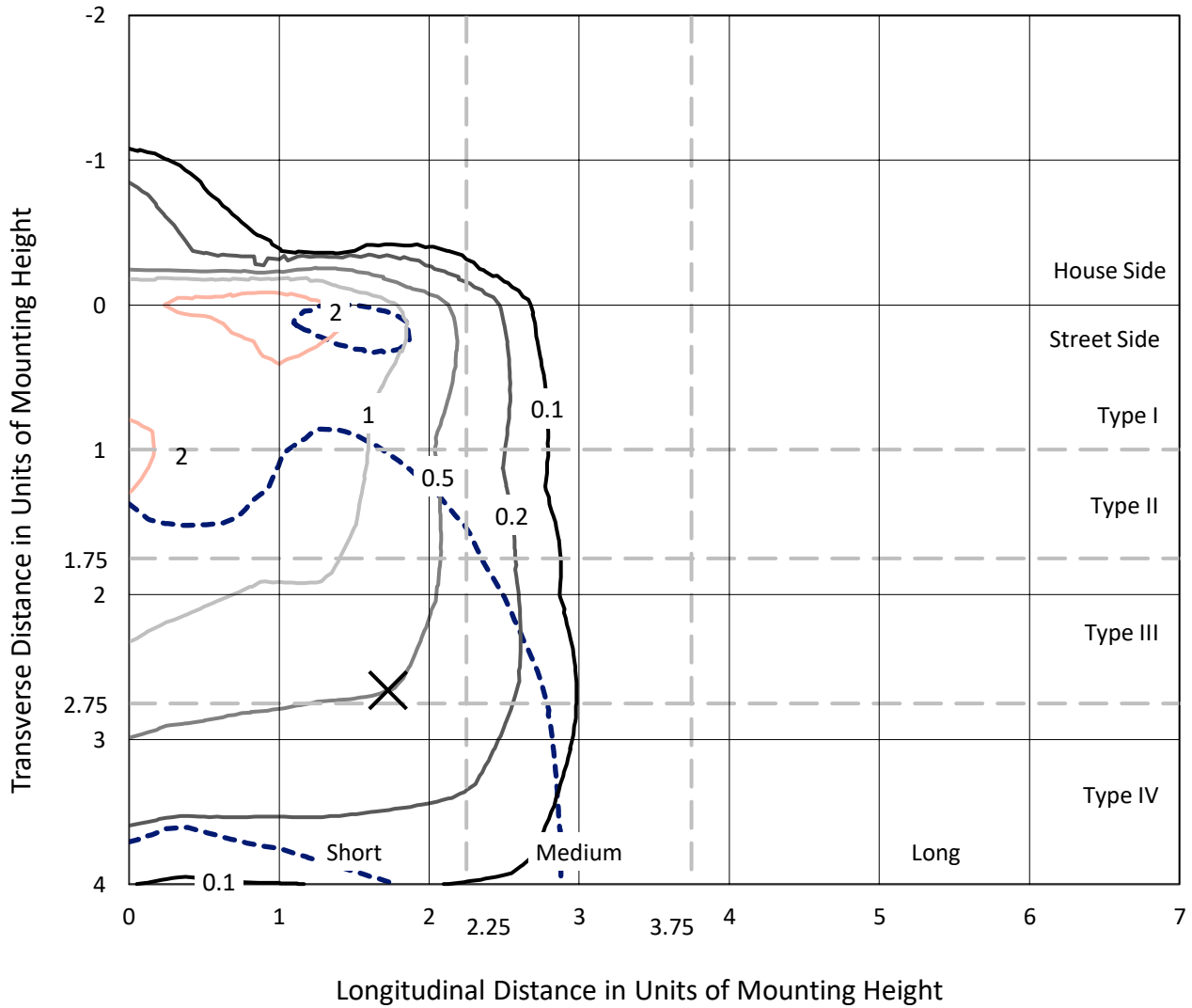
Lumens per Lamp: N/A  
Luminaire Lumens: 11844 lumens  
Efficiency: N/A  
Efficacy: 61.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: P368179  
 CATALOG NUMBER: PMM-SA3D-830-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

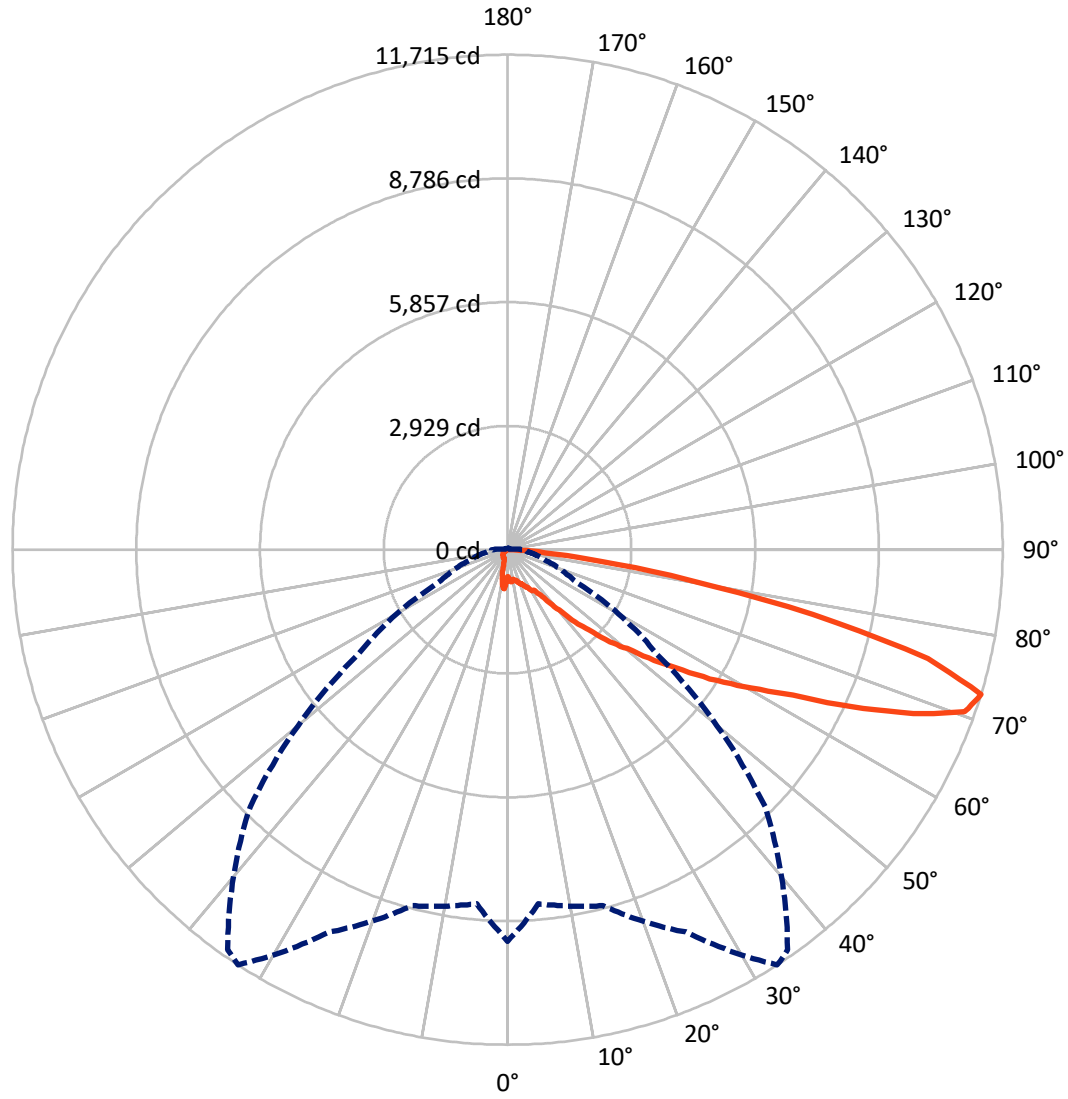
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P368179  
CATALOG NUMBER: PMM-SA3D-830-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P368179  
 CATALOG NUMBER: PMM-SA3D-830-U-T4FT-HSS

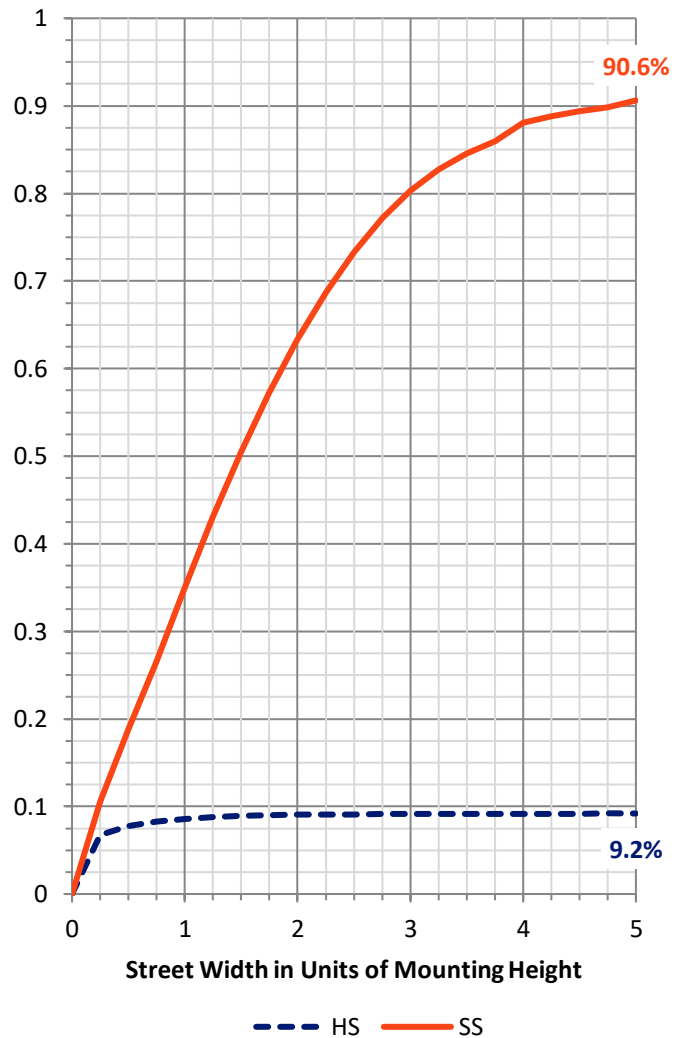
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1095.1   | 0.0    | 1095.1  |
|                    | % Fixture | 9.2      | 0.0    | 9.2     |
| <b>Street Side</b> | Lumens    | 10748.8  | 0.0    | 10748.8 |
|                    | % Fixture | 90.8     | 0.0    | 90.8    |
| <b>Total</b>       | Lumens    | 11844.0  | 0.0    | 11844.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 81.5    | 0.7       |
| 10°-20°   | 243.0   | 2.1       |
| 20°-30°   | 412.0   | 3.5       |
| 30°-40°   | 754.1   | 6.4       |
| 40°-50°   | 1591.6  | 13.4      |
| 50°-60°   | 2662.8  | 22.5      |
| 60°-70°   | 3564.3  | 30.1      |
| 70°-80°   | 2328.2  | 19.7      |
| 80°-90°   | 206.4   | 1.7       |
| 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°    | 11844.0 | 100.0     |
| 0°-180°   | 11844.0 | 100.0     |

**Coefficient of Utilization**

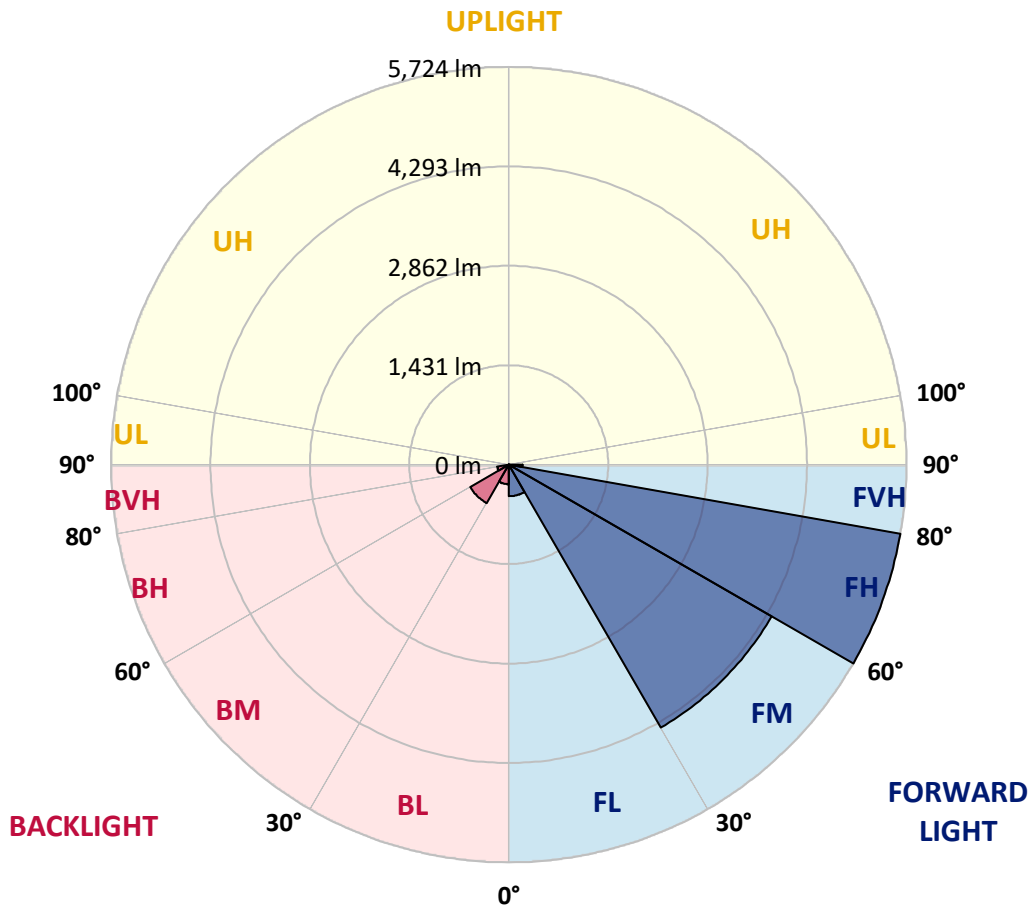


REPORT NUMBER: P368179  
 CATALOG NUMBER: PMM-SA3D-830-U-T4FT-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 454.7  | 3.8       |                         |      |         |
| FM (30°-60°)   | 4368.2 | 36.9      |                         |      |         |
| FH (60°-80°)   | 5723.5 | 48.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 202.4  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 281.9  | 2.4       | B1/500                  |      |         |
| BM (30°-60°)   | 640.2  | 5.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 169.0  | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.0    | 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-G3**  
 Type IV Short





REPORT NUMBER: P368179

CATALOG NUMBER: PMM-SA3D-830-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°     | 15°    | 25°     | 33°     | 35°     | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 630.0   | 630.0  | 630.0  | 630.0   | 630.0   | 630.0   | 630.0  | 630.0  | 630.0  | 630.0  | 630.0  |
| 2.5°  | 751.0   | 722.0  | 679.9  | 682.6   | 689.8   | 695.7   | 711.5  | 704.9  | 692.4  | 691.8  | 751.0  |
| 5°    | 795.7   | 763.5  | 760.8  | 764.8   | 762.8   | 773.3   | 760.2  | 802.9  | 839.1  | 882.5  | 952.2  |
| 7.5°  | 774.0   | 758.8  | 739.8  | 759.5   | 758.8   | 753.6   | 762.1  | 848.9  | 936.4  | 991.6  | 1106.7 |
| 10°   | 711.5   | 694.4  | 708.9  | 715.4   | 710.8   | 733.9   | 791.1  | 862.1  | 966.6  | 1082.4 | 1138.3 |
| 12.5° | 693.7   | 704.3  | 709.5  | 709.5   | 753.6   | 765.4   | 852.9  | 920.0  | 1044.2 | 1135.6 | 1298.1 |
| 15°   | 762.8   | 783.2  | 747.0  | 739.1   | 752.9   | 759.5   | 856.8  | 937.7  | 1096.8 | 1263.9 | 1400.0 |
| 17.5° | 872.6   | 871.3  | 815.4  | 784.5   | 806.2   | 822.0   | 875.9  | 970.6  | 1064.0 | 1364.5 | 1561.8 |
| 20°   | 948.2   | 949.5  | 848.9  | 784.5   | 856.2   | 865.4   | 925.2  | 1000.8 | 1074.5 | 1415.1 | 1667.6 |
| 22.5° | 1045.6  | 1010.7 | 899.6  | 837.1   | 885.8   | 894.3   | 960.1  | 1019.9 | 1128.4 | 1409.2 | 1803.1 |
| 25°   | 1125.1  | 1102.8 | 962.7  | 919.3   | 962.7   | 950.9   | 1010.7 | 1100.8 | 1186.3 | 1503.2 | 1882.7 |
| 27.5° | 1248.7  | 1210.6 | 1007.4 | 1015.3  | 1012.7  | 1021.2  | 1035.0 | 1173.1 | 1288.2 | 1507.8 | 2066.8 |
| 30°   | 1363.8  | 1341.5 | 1107.4 | 1107.4  | 1133.0  | 1116.6  | 1126.4 | 1293.5 | 1386.8 | 1614.4 | 2273.9 |
| 32.5° | 1482.8  | 1484.2 | 1225.1 | 1162.6  | 1142.2  | 1210.0  | 1276.4 | 1352.0 | 1505.9 | 1797.2 | 2590.9 |
| 35°   | 1797.8  | 1771.5 | 1450.6 | 1294.8  | 1278.3  | 1274.4  | 1380.9 | 1585.4 | 1716.9 | 2035.2 | 3017.6 |
| 37.5° | 2432.4  | 2341.0 | 1935.9 | 1594.6  | 1532.8  | 1511.8  | 1632.8 | 1842.5 | 1973.4 | 2385.0 | 3723.2 |
| 40°   | 3083.4  | 2915.7 | 2465.9 | 2081.2  | 1880.7  | 1789.9  | 1930.7 | 2108.9 | 2341.6 | 2771.7 | 4376.2 |
| 42.5° | 3654.8  | 3447.7 | 2865.1 | 2606.0  | 2344.9  | 2305.5  | 2173.3 | 2463.3 | 2867.7 | 3334.6 | 5016.0 |
| 45°   | 4211.8  | 3804.1 | 3220.2 | 3015.0  | 2698.1  | 2720.4  | 2675.7 | 2926.9 | 3414.2 | 3951.4 | 5583.5 |
| 47.5° | 4595.2  | 4228.9 | 3655.5 | 3389.2  | 3262.3  | 3131.4  | 3486.5 | 3747.6 | 3900.8 | 4343.3 | 6074.1 |
| 50°   | 5008.1  | 4637.3 | 4029.7 | 3843.6  | 3676.5  | 3808.7  | 4269.7 | 4304.5 | 4292.0 | 4708.9 | 6408.1 |
| 52.5° | 5541.4  | 5104.1 | 4459.1 | 4248.6  | 4343.3  | 4474.8  | 5006.8 | 5013.4 | 4639.9 | 5016.7 | 6648.8 |
| 55°   | 6034.6  | 5550.0 | 5031.2 | 4832.6  | 5030.5  | 5141.6  | 5731.5 | 5515.1 | 4842.4 | 5225.8 | 6767.2 |
| 57.5° | 6729.7  | 6168.8 | 5792.0 | 5442.1  | 5843.3  | 5736.7  | 6368.7 | 6047.1 | 5070.0 | 5364.6 | 6723.8 |
| 60°   | 7608.2  | 6948.0 | 6570.6 | 6200.3  | 6630.4  | 6702.7  | 6990.8 | 6312.8 | 5158.1 | 5409.9 | 6462.7 |
| 62.5° | 8501.9  | 7837.7 | 7341.2 | 7090.0  | 7578.0  | 7816.0  | 7566.8 | 6445.0 | 5052.2 | 5321.2 | 5871.5 |
| 65°   | 9610.6  | 8760.3 | 8180.3 | 8033.0  | 8937.2  | 9287.0  | 8248.0 | 6477.2 | 4847.7 | 4832.6 | 4720.8 |
| 67.5° | 10370.1 | 9542.2 | 9010.2 | 9256.8  | 10349.0 | 10377.3 | 8859.6 | 6487.0 | 4159.2 | 3783.7 | 3098.5 |
| 70°   | 10550.2 | 9663.8 | 9425.8 | 10151.7 | 11475.5 | 11119.7 | 9056.9 | 5987.3 | 3084.7 | 2245.6 | 1416.4 |
| 72.5° | 9261.4  | 8407.8 | 8717.6 | 9982.7  | 11714.8 | 11551.7 | 8620.9 | 4319.7 | 1736.7 | 898.3  | 434.7  |
| 75°   | 5680.8  | 5164.6 | 6539.6 | 8463.7  | 10283.3 | 10178.0 | 6725.7 | 2231.8 | 699.7  | 359.0  | 162.4  |
| 77.5° | 2470.5  | 2294.3 | 3412.8 | 5615.7  | 7389.2  | 7295.2  | 3940.9 | 822.0  | 361.7  | 252.5  | 82.2   |
| 80°   | 817.4   | 793.0  | 1292.8 | 2659.3  | 4328.2  | 4245.3  | 1660.4 | 341.9  | 257.8  | 202.5  | 46.0   |
| 82.5° | 194.0   | 192.7  | 451.1  | 1223.8  | 2204.9  | 2135.8  | 509.6  | 188.7  | 186.8  | 159.8  | 24.3   |
| 85°   | 48.7    | 50.0   | 124.9  | 500.4   | 895.6   | 789.8   | 132.8  | 94.0   | 131.5  | 108.5  | 12.5   |
| 87.5° | 0.0     | 0.0    | 32.2   | 71.7    | 135.5   | 84.8    | 14.5   | 25.0   | 36.8   | 38.8   | 6.6    |
| 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: P368179

CATALOG NUMBER: PMM-SA3D-830-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 630.0  | 630.0  | 630.0  | 630.0  | 630.0 | 630.0 | 630.0 | 630.0 | 630.0 | 630.0 | 630.0 |
| 2.5°  | 764.1  | 756.9  | 697.7  | 712.2  | 734.5 | 732.5 | 747.0 | 735.8 | 726.0 | 774.6 | 770.0 |
| 5°    | 971.9  | 932.5  | 914.0  | 939.7  | 925.9 | 893.7 | 920.6 | 916.0 | 908.1 | 924.6 | 937.1 |
| 7.5°  | 1127.8 | 1091.6 | 1075.1 | 1021.2 | 943.0 | 881.2 | 891.0 | 868.0 | 846.3 | 872.0 | 898.3 |
| 10°   | 1179.0 | 1159.3 | 1157.3 | 1052.1 | 978.5 | 889.1 | 783.2 | 691.8 | 667.4 | 635.2 | 649.7 |
| 12.5° | 1318.5 | 1330.3 | 1256.0 | 1133.0 | 991.0 | 819.3 | 631.3 | 501.7 | 449.1 | 414.9 | 416.9 |
| 15°   | 1432.9 | 1474.3 | 1366.5 | 1145.5 | 872.0 | 624.7 | 420.2 | 303.8 | 270.9 | 262.4 | 259.7 |
| 17.5° | 1603.2 | 1643.3 | 1400.6 | 1056.7 | 703.0 | 423.5 | 270.3 | 236.7 | 238.7 | 244.6 | 243.3 |
| 20°   | 1729.4 | 1723.5 | 1371.1 | 899.6  | 518.2 | 277.5 | 226.2 | 221.6 | 232.1 | 249.2 | 245.3 |
| 22.5° | 1851.1 | 1810.3 | 1352.6 | 754.2  | 335.4 | 222.9 | 218.3 | 217.7 | 227.5 | 244.0 | 248.6 |
| 25°   | 1937.9 | 1944.5 | 1321.7 | 590.5  | 244.0 | 207.1 | 211.1 | 217.0 | 226.9 | 244.6 | 242.0 |
| 27.5° | 2186.5 | 2002.3 | 1192.9 | 428.7  | 205.8 | 198.6 | 208.5 | 220.3 | 223.6 | 245.9 | 246.6 |
| 30°   | 2347.6 | 2220.7 | 1108.7 | 288.7  | 190.0 | 183.5 | 203.2 | 219.0 | 222.9 | 251.9 | 253.8 |
| 32.5° | 2628.4 | 2314.7 | 1011.4 | 214.4  | 176.9 | 178.9 | 191.4 | 212.4 | 230.8 | 261.7 | 263.0 |
| 35°   | 2977.5 | 2616.5 | 835.1  | 192.7  | 172.3 | 169.0 | 174.9 | 199.2 | 229.5 | 263.0 | 269.6 |
| 37.5° | 3642.3 | 2797.4 | 662.2  | 186.8  | 172.3 | 166.4 | 172.3 | 186.8 | 225.6 | 276.2 | 290.0 |
| 40°   | 4087.5 | 3165.6 | 477.4  | 185.4  | 169.0 | 163.7 | 165.7 | 180.2 | 214.4 | 268.3 | 288.7 |
| 42.5° | 4636.0 | 3320.8 | 351.8  | 182.2  | 165.7 | 157.8 | 159.1 | 177.5 | 203.2 | 251.9 | 267.0 |
| 45°   | 5085.1 | 3433.9 | 276.8  | 180.8  | 157.8 | 155.2 | 157.8 | 175.6 | 192.7 | 216.3 | 230.2 |
| 47.5° | 5426.4 | 3565.4 | 222.3  | 172.3  | 155.8 | 155.2 | 151.9 | 164.4 | 174.9 | 180.8 | 190.0 |
| 50°   | 5676.2 | 3535.8 | 184.1  | 159.1  | 149.3 | 153.2 | 147.3 | 149.3 | 151.9 | 148.6 | 159.1 |
| 52.5° | 5829.5 | 3429.3 | 153.2  | 143.4  | 141.4 | 144.7 | 137.4 | 131.5 | 126.9 | 124.3 | 130.9 |
| 55°   | 5885.4 | 3215.6 | 130.2  | 123.0  | 127.6 | 128.9 | 123.0 | 112.4 | 104.6 | 100.6 | 105.9 |
| 57.5° | 5779.5 | 2890.1 | 113.1  | 101.9  | 112.4 | 112.4 | 104.6 | 93.4  | 84.2  | 77.6  | 82.9  |
| 60°   | 5511.2 | 2530.4 | 100.6  | 84.8   | 96.0  | 96.7  | 87.5  | 75.6  | 68.4  | 61.8  | 65.1  |
| 62.5° | 5011.4 | 2138.5 | 88.1   | 73.6   | 82.9  | 83.5  | 72.3  | 61.2  | 55.9  | 48.7  | 51.3  |
| 65°   | 4011.9 | 1635.4 | 75.0   | 65.1   | 71.7  | 69.7  | 59.8  | 51.9  | 45.4  | 38.8  | 40.1  |
| 67.5° | 2604.0 | 1009.4 | 65.1   | 59.2   | 60.5  | 58.5  | 50.6  | 45.4  | 38.1  | 32.9  | 33.5  |
| 70°   | 1165.9 | 434.7  | 57.2   | 53.3   | 52.6  | 49.3  | 42.7  | 42.1  | 37.5  | 32.9  | 32.9  |
| 72.5° | 359.7  | 163.7  | 49.3   | 48.0   | 45.4  | 41.4  | 37.5  | 40.1  | 36.8  | 31.6  | 30.9  |
| 75°   | 142.0  | 75.0   | 40.8   | 40.8   | 39.5  | 34.2  | 33.5  | 36.2  | 34.2  | 28.9  | 27.6  |
| 77.5° | 74.3   | 47.3   | 33.5   | 34.9   | 34.2  | 26.3  | 30.2  | 32.9  | 31.6  | 24.3  | 20.4  |
| 80°   | 44.1   | 28.9   | 25.0   | 28.3   | 27.6  | 18.4  | 23.0  | 21.0  | 15.1  | 7.2   | 2.0   |
| 82.5° | 24.3   | 13.2   | 11.2   | 16.4   | 16.4  | 6.6   | 11.8  | 10.5  | 5.9   | 0.0   | 0.0   |
| 85°   | 11.8   | 9.2    | 8.5    | 9.2    | 6.6   | 2.0   | 5.9   | 5.9   | 3.3   | 0.0   | 0.0   |
| 87.5° | 5.9    | 5.3    | 3.9    | 3.3    | 2.6   | 0.0   | 2.0   | 2.6   | 0.0   | 0.0   | 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)