

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: P366712

Luminaire Tested: **PMM-SA1A-830-U-RW**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-7)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1A-830-U-RW
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3298 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

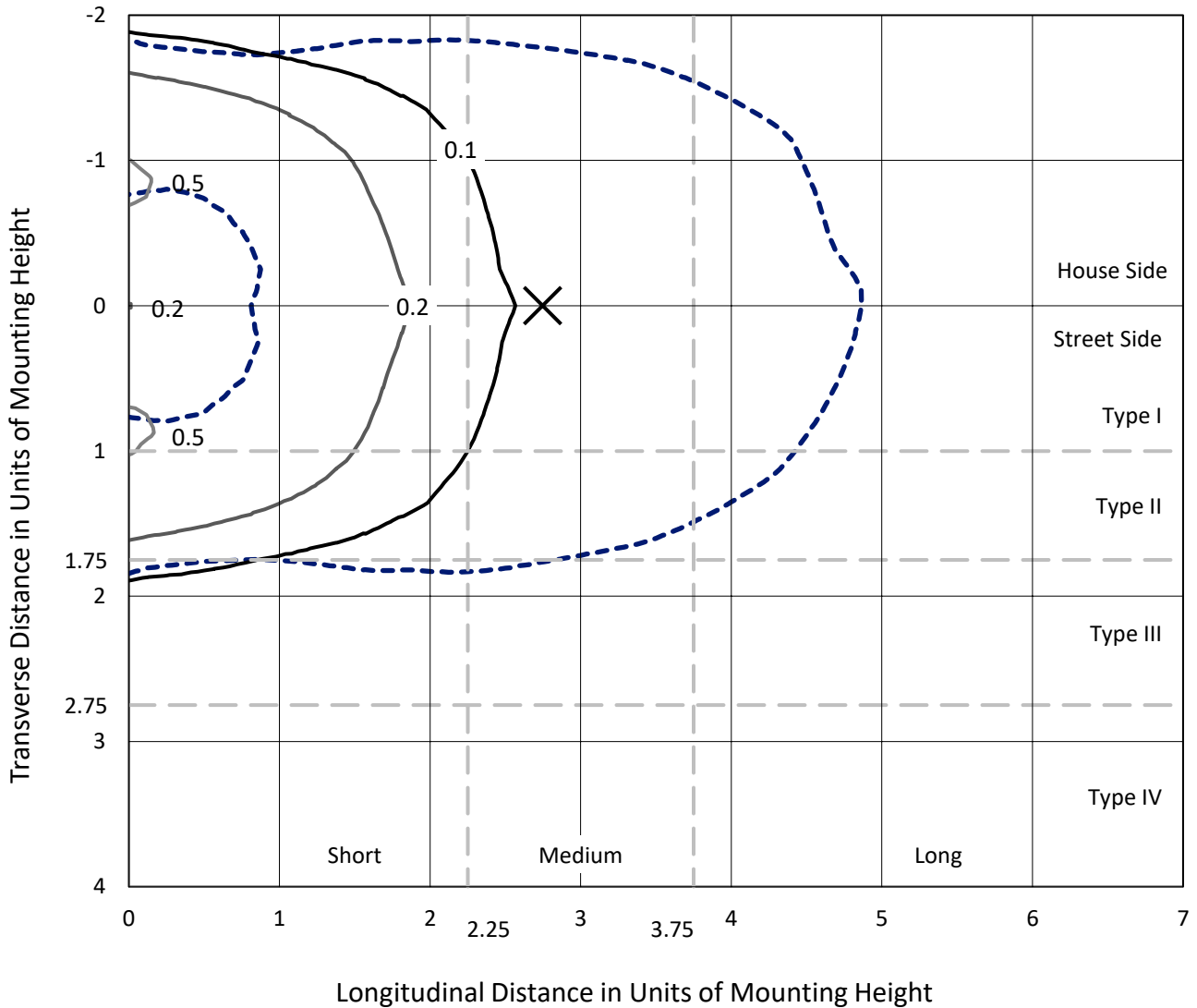
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

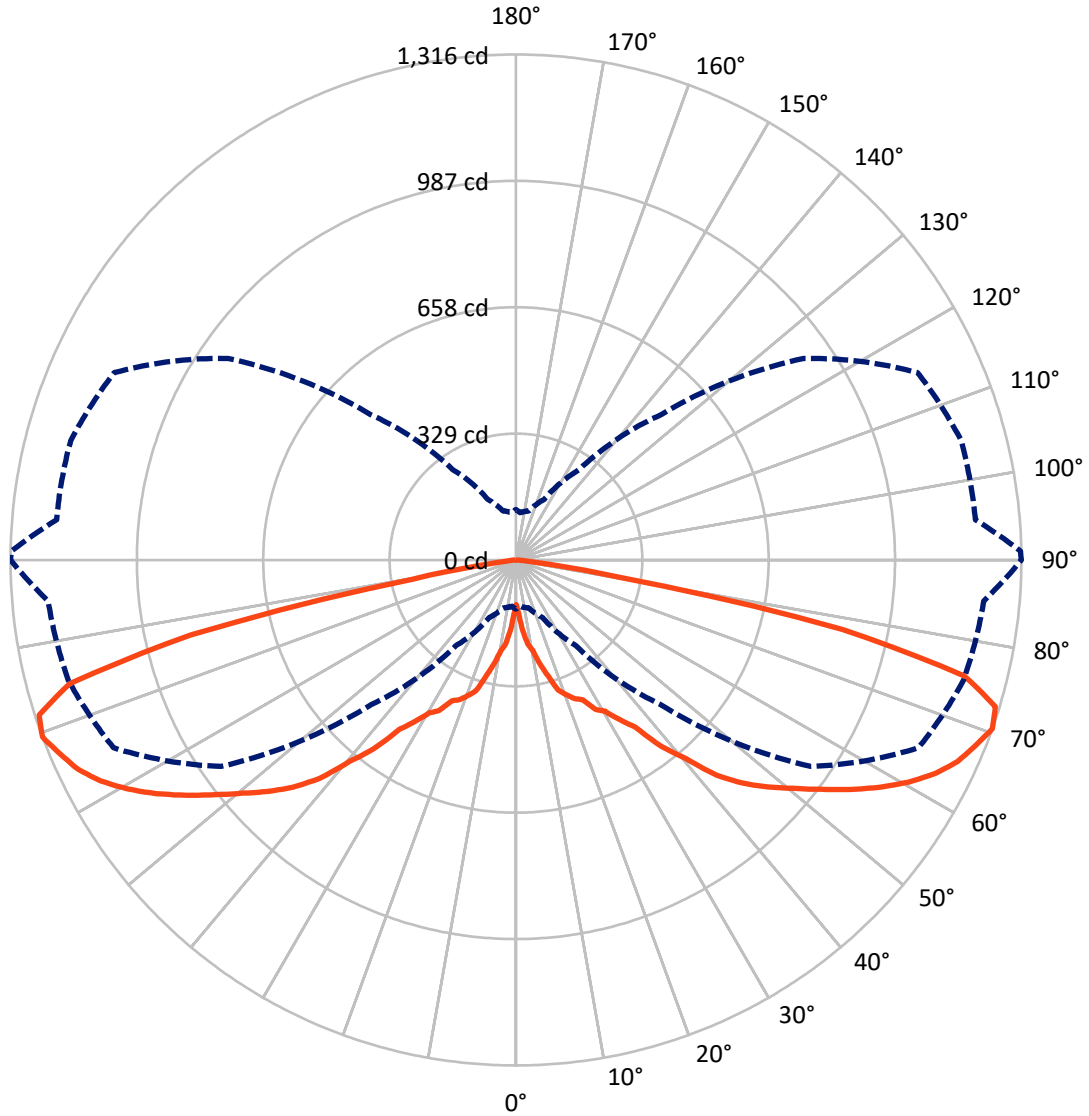
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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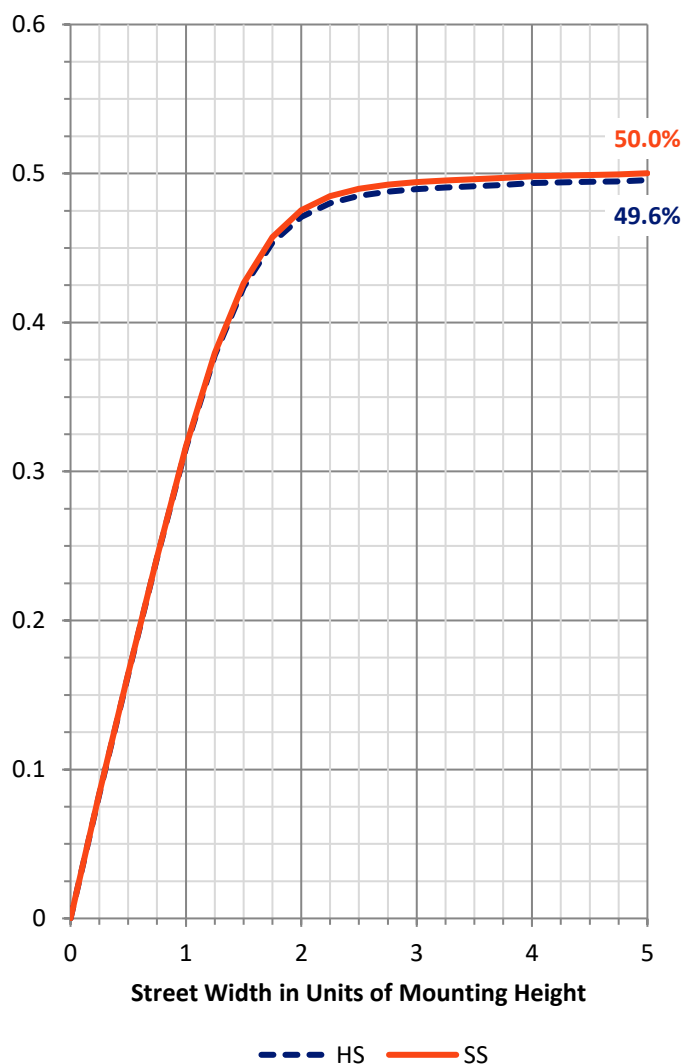
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1642.9 | 0.0 | 1642.9 |
| | % Fixture | 49.8 | 0.0 | 49.8 |
| Street Side | Lumens | 1655.1 | 0.0 | 1655.1 |
| | % Fixture | 50.2 | 0.0 | 50.2 |
| Total | Lumens | 3298.0 | 0.0 | 3298.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 17.5 | 0.5 |
| 10°-20° | 80.0 | 2.4 |
| 20°-30° | 173.0 | 5.2 |
| 30°-40° | 330.1 | 10.0 |
| 40°-50° | 599.7 | 18.2 |
| 50°-60° | 842.5 | 25.5 |
| 60°-70° | 804.4 | 24.4 |
| 70°-80° | 412.8 | 12.5 |
| 80°-90° | 37.9 | 1.1 |
| 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° | 3298.0 | 100.0 |
| 0°-180° | 3298.0 | 100.0 |

Coefficient of Utilization



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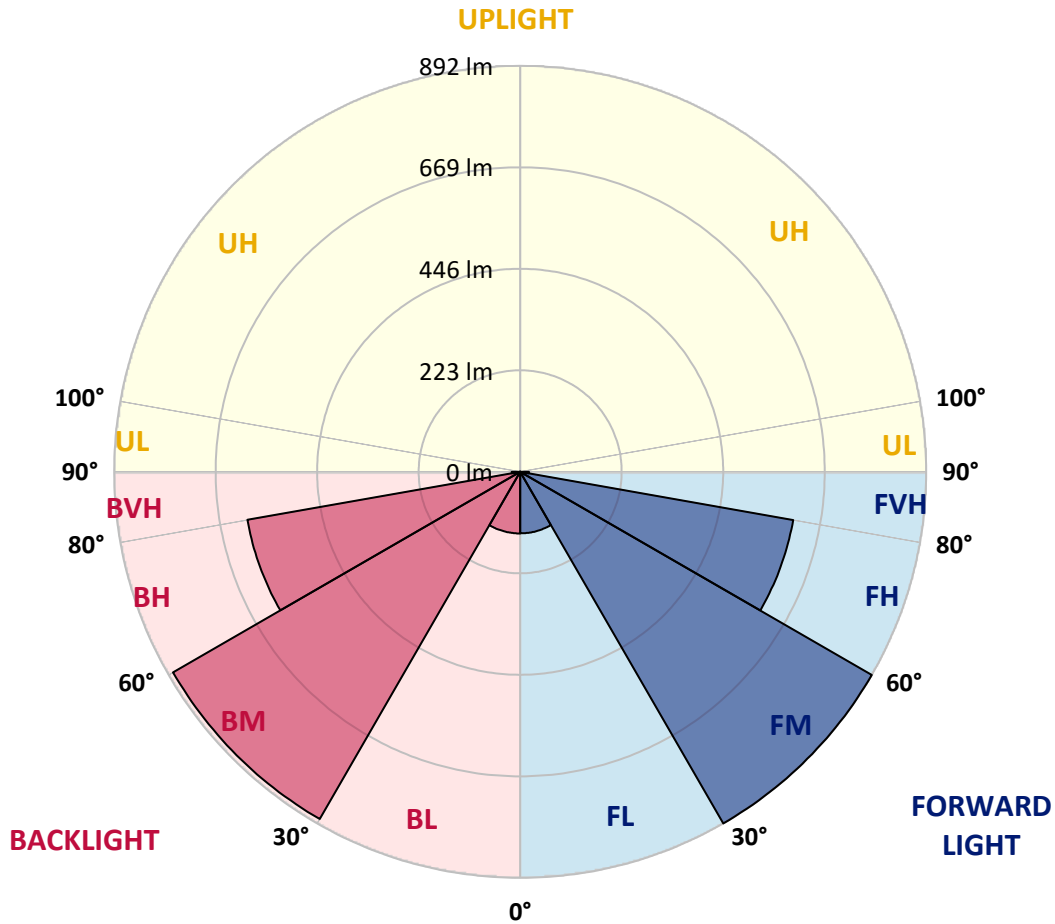
CATALOG NUMBER: PMM-SA1A-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 135.1 | 4.1 | | | |
| FM (30°-60°) | 891.8 | 27.0 | | | |
| FH (60°-80°) | 609.0 | 18.5 | | | G0/660 |
| FVH (80°-90°) | 19.2 | 0.6 | | | G1/100 |
| BL (0°-30°) | 135.4 | 4.1 | B1/500 | | |
| BM (30°-60°) | 880.6 | 26.7 | B1/1000 | | |
| BH (60°-80°) | 608.3 | 18.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 18.6 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 |
| 2.5° | 140.2 | 135.0 | 128.5 | 132.3 | 133.9 | 136.7 | 136.3 | 135.0 | 129.3 | 138.9 | 139.9 |
| 5° | 175.5 | 167.2 | 164.1 | 163.6 | 164.4 | 161.7 | 170.4 | 167.9 | 172.6 | 181.2 | 183.3 |
| 7.5° | 199.8 | 193.7 | 187.1 | 189.1 | 180.8 | 179.6 | 190.9 | 200.9 | 203.4 | 219.3 | 220.4 |
| 10° | 211.3 | 205.3 | 207.0 | 205.8 | 204.9 | 212.7 | 217.9 | 225.2 | 235.8 | 237.3 | 239.5 |
| 12.5° | 221.1 | 223.5 | 231.1 | 230.8 | 243.4 | 257.2 | 255.2 | 262.8 | 264.5 | 283.0 | 277.4 |
| 15° | 245.8 | 250.8 | 250.2 | 254.9 | 260.4 | 283.0 | 283.1 | 296.1 | 308.0 | 315.2 | 313.3 |
| 17.5° | 282.0 | 283.8 | 276.5 | 276.8 | 292.7 | 301.9 | 312.2 | 310.0 | 341.0 | 355.1 | 356.1 |
| 20° | 303.7 | 308.1 | 299.8 | 288.8 | 317.0 | 329.7 | 335.5 | 322.3 | 355.4 | 374.5 | 374.5 |
| 22.5° | 341.5 | 330.1 | 317.6 | 310.2 | 335.1 | 348.6 | 347.9 | 344.2 | 361.8 | 395.6 | 392.4 |
| 25° | 362.4 | 355.9 | 349.7 | 351.5 | 364.1 | 371.0 | 380.3 | 371.6 | 388.2 | 413.3 | 402.7 |
| 27.5° | 401.9 | 390.0 | 359.2 | 383.7 | 383.7 | 378.5 | 398.0 | 402.2 | 391.4 | 432.3 | 440.2 |
| 30° | 446.7 | 442.6 | 398.9 | 424.9 | 416.9 | 402.2 | 439.6 | 436.9 | 418.8 | 460.5 | 456.9 |
| 32.5° | 489.1 | 502.7 | 461.3 | 447.0 | 459.0 | 464.6 | 445.0 | 453.0 | 456.5 | 496.7 | 495.0 |
| 35° | 554.0 | 565.5 | 510.6 | 507.0 | 486.9 | 481.7 | 496.7 | 499.4 | 499.6 | 542.0 | 534.3 |
| 37.5° | 666.4 | 649.9 | 595.6 | 570.1 | 572.3 | 566.1 | 569.0 | 547.9 | 550.8 | 612.3 | 616.2 |
| 40° | 748.6 | 729.9 | 669.5 | 651.2 | 606.3 | 633.2 | 609.4 | 607.2 | 601.4 | 681.0 | 678.9 |
| 42.5° | 839.4 | 813.7 | 746.9 | 722.4 | 674.7 | 663.8 | 652.8 | 677.5 | 675.9 | 749.7 | 766.0 |
| 45° | 908.0 | 856.1 | 821.2 | 806.0 | 777.4 | 750.5 | 740.1 | 751.2 | 746.1 | 800.9 | 829.4 |
| 47.5° | 951.3 | 906.2 | 866.1 | 834.1 | 806.7 | 872.6 | 819.8 | 804.9 | 794.6 | 856.0 | 883.4 |
| 50° | 985.8 | 933.8 | 886.5 | 875.8 | 897.4 | 955.7 | 872.4 | 839.7 | 852.2 | 897.4 | 934.7 |
| 52.5° | 995.1 | 940.1 | 897.5 | 890.7 | 949.3 | 959.8 | 946.3 | 891.3 | 887.9 | 947.1 | 992.2 |
| 55° | 966.5 | 913.7 | 893.5 | 930.8 | 995.5 | 986.7 | 1007.3 | 972.1 | 948.5 | 997.9 | 1054.6 |
| 57.5° | 892.9 | 840.5 | 835.7 | 889.4 | 970.9 | 1046.0 | 1056.2 | 1028.4 | 997.4 | 1049.8 | 1116.6 |
| 60° | 771.9 | 724.1 | 736.2 | 795.6 | 918.5 | 1025.5 | 1079.5 | 1054.1 | 1044.4 | 1096.6 | 1174.1 |
| 62.5° | 583.6 | 546.3 | 578.8 | 661.5 | 822.8 | 998.9 | 1111.5 | 1107.5 | 1093.6 | 1146.3 | 1224.9 |
| 65° | 372.1 | 352.5 | 385.6 | 469.7 | 674.3 | 950.5 | 1126.9 | 1132.3 | 1145.1 | 1184.7 | 1264.2 |
| 67.5° | 216.3 | 205.8 | 226.0 | 294.9 | 480.3 | 780.5 | 1098.3 | 1175.0 | 1181.7 | 1204.4 | 1290.0 |
| 70° | 127.9 | 121.1 | 129.4 | 165.6 | 271.9 | 531.7 | 936.8 | 1156.3 | 1206.8 | 1222.6 | 1316.0 |
| 72.5° | 97.6 | 91.2 | 87.5 | 98.0 | 142.0 | 274.7 | 633.4 | 980.2 | 1186.7 | 1210.6 | 1305.1 |
| 75° | 84.3 | 78.2 | 73.9 | 74.9 | 84.5 | 130.5 | 343.4 | 701.1 | 1011.2 | 1102.3 | 1205.5 |
| 77.5° | 72.4 | 67.0 | 63.9 | 63.6 | 64.8 | 71.6 | 143.6 | 380.1 | 633.3 | 792.4 | 869.1 |
| 80° | 58.0 | 53.7 | 53.1 | 53.1 | 51.3 | 50.8 | 71.4 | 144.6 | 241.0 | 285.8 | 274.0 |
| 82.5° | 42.4 | 38.1 | 42.4 | 41.8 | 39.2 | 37.0 | 45.4 | 62.6 | 74.3 | 58.7 | 46.4 |
| 85° | 28.6 | 24.7 | 27.9 | 28.5 | 25.9 | 19.2 | 27.3 | 31.3 | 32.1 | 20.0 | 16.6 |
| 87.5° | 10.0 | 9.8 | 15.8 | 13.8 | 11.2 | 6.5 | 10.0 | 10.8 | 11.4 | 7.1 | 4.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: PMM-SA1A-830-U-RW

CANDELA DISTRIBUTION (continued):

| | 91° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 | 115.8 |
| 2.5° | 140.3 | 138.7 | 130.7 | 131.9 | 135.0 | 136.5 | 137.9 | 131.9 | 129.0 | 138.3 | 137.4 |
| 5° | 183.8 | 177.9 | 171.4 | 170.4 | 170.8 | 165.1 | 168.4 | 166.9 | 167.6 | 173.6 | 174.8 |
| 7.5° | 220.1 | 213.1 | 204.4 | 197.6 | 185.8 | 176.4 | 184.3 | 188.3 | 189.5 | 200.2 | 204.2 |
| 10° | 239.8 | 233.8 | 231.2 | 218.4 | 214.5 | 213.3 | 211.5 | 205.0 | 212.1 | 209.6 | 211.6 |
| 12.5° | 278.3 | 277.1 | 263.9 | 255.4 | 256.2 | 258.5 | 246.7 | 240.3 | 231.1 | 245.5 | 240.3 |
| 15° | 311.0 | 316.2 | 303.0 | 287.6 | 280.0 | 283.9 | 274.9 | 265.6 | 257.3 | 261.7 | 256.1 |
| 17.5° | 352.9 | 352.7 | 326.9 | 310.5 | 309.8 | 309.6 | 296.3 | 275.7 | 285.6 | 282.6 | 282.8 |
| 20° | 375.1 | 371.5 | 339.4 | 320.4 | 336.6 | 330.8 | 318.9 | 292.5 | 304.0 | 307.7 | 310.1 |
| 22.5° | 393.6 | 391.6 | 352.7 | 338.8 | 349.3 | 349.4 | 337.5 | 323.6 | 322.1 | 333.8 | 327.5 |
| 25° | 406.6 | 414.6 | 378.0 | 374.7 | 379.2 | 374.7 | 363.0 | 353.9 | 348.1 | 365.4 | 348.1 |
| 27.5° | 437.3 | 426.0 | 381.9 | 400.9 | 403.7 | 380.8 | 395.4 | 384.7 | 368.4 | 389.9 | 397.0 |
| 30° | 459.3 | 465.9 | 409.1 | 437.7 | 434.4 | 413.3 | 419.3 | 418.9 | 399.4 | 441.4 | 436.4 |
| 32.5° | 497.0 | 488.9 | 453.7 | 451.4 | 459.4 | 458.5 | 448.3 | 453.3 | 458.1 | 488.5 | 495.9 |
| 35° | 535.6 | 544.1 | 482.1 | 497.5 | 495.2 | 480.8 | 507.4 | 504.3 | 518.6 | 581.2 | 560.4 |
| 37.5° | 622.7 | 582.0 | 546.0 | 544.0 | 559.2 | 561.5 | 553.0 | 566.5 | 597.3 | 645.5 | 667.6 |
| 40° | 679.8 | 661.2 | 600.1 | 602.6 | 581.4 | 617.8 | 593.7 | 637.2 | 660.7 | 741.8 | 733.9 |
| 42.5° | 766.2 | 720.8 | 662.2 | 670.2 | 665.9 | 648.4 | 680.1 | 702.4 | 736.1 | 798.0 | 837.9 |
| 45° | 830.4 | 768.3 | 740.5 | 735.5 | 735.0 | 765.5 | 761.5 | 797.2 | 809.2 | 855.7 | 888.9 |
| 47.5° | 879.2 | 826.4 | 785.3 | 790.9 | 774.6 | 861.6 | 815.2 | 826.3 | 850.6 | 894.5 | 933.1 |
| 50° | 937.1 | 878.3 | 831.5 | 845.4 | 885.1 | 918.5 | 876.6 | 857.6 | 869.5 | 921.2 | 964.2 |
| 52.5° | 990.7 | 928.8 | 877.4 | 889.0 | 953.8 | 938.6 | 934.0 | 886.1 | 884.6 | 926.2 | 975.1 |
| 55° | 1053.4 | 983.6 | 938.2 | 975.1 | 998.1 | 979.2 | 972.0 | 913.6 | 877.5 | 900.6 | 946.7 |
| 57.5° | 1114.9 | 1037.9 | 992.7 | 1000.3 | 1029.5 | 1010.8 | 956.6 | 866.7 | 821.6 | 826.2 | 872.8 |
| 60° | 1172.5 | 1087.8 | 1050.5 | 1043.1 | 1066.4 | 993.0 | 898.2 | 780.7 | 721.0 | 710.0 | 750.4 |
| 62.5° | 1221.8 | 1129.5 | 1094.2 | 1074.1 | 1096.3 | 993.7 | 807.2 | 642.8 | 577.2 | 540.0 | 571.4 |
| 65° | 1261.0 | 1164.1 | 1138.9 | 1128.5 | 1136.5 | 933.2 | 665.4 | 472.0 | 391.5 | 350.3 | 368.6 |
| 67.5° | 1287.0 | 1183.5 | 1172.0 | 1185.6 | 1078.7 | 777.3 | 492.9 | 302.1 | 227.6 | 205.2 | 216.7 |
| 70° | 1314.0 | 1200.6 | 1200.2 | 1153.8 | 914.7 | 535.9 | 287.9 | 174.2 | 132.5 | 123.8 | 131.0 |
| 72.5° | 1305.0 | 1180.2 | 1186.3 | 1009.0 | 633.8 | 286.4 | 152.0 | 98.5 | 89.7 | 92.8 | 99.2 |
| 75° | 1208.4 | 1073.0 | 1044.0 | 725.4 | 359.6 | 133.1 | 87.5 | 74.6 | 74.0 | 78.7 | 85.0 |
| 77.5° | 876.6 | 747.3 | 670.6 | 411.1 | 154.1 | 72.0 | 64.4 | 62.3 | 62.3 | 66.0 | 71.6 |
| 80° | 289.0 | 250.1 | 260.6 | 159.1 | 72.8 | 49.7 | 50.3 | 51.2 | 50.9 | 51.9 | 56.5 |
| 82.5° | 47.5 | 49.2 | 76.1 | 65.0 | 44.0 | 34.0 | 38.0 | 39.8 | 40.4 | 36.1 | 41.0 |
| 85° | 16.8 | 19.0 | 32.3 | 30.1 | 25.4 | 17.1 | 25.0 | 27.9 | 27.5 | 24.1 | 26.6 |
| 87.5° | 5.2 | 6.7 | 11.8 | 9.1 | 7.6 | 4.7 | 9.4 | 11.0 | 13.8 | 5.6 | 5.1 |
| 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)