

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: P595994

Luminaire Tested: **PMM-SA3A-AMB-U-SL4**

Issue Date: 4/29/2022

Test Information

Test Method: LM-79-08
Report Number: P595994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-400-21)
Test Lab: INNOVATIONS CENTER
Issue Date: 4/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA3A-AMB-U-SL4
Description: POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH
AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS.
Light Source: (48) 1549K CCT, -21.5 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2264 lumens
Efficiency: N/A
Efficacy: 37.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

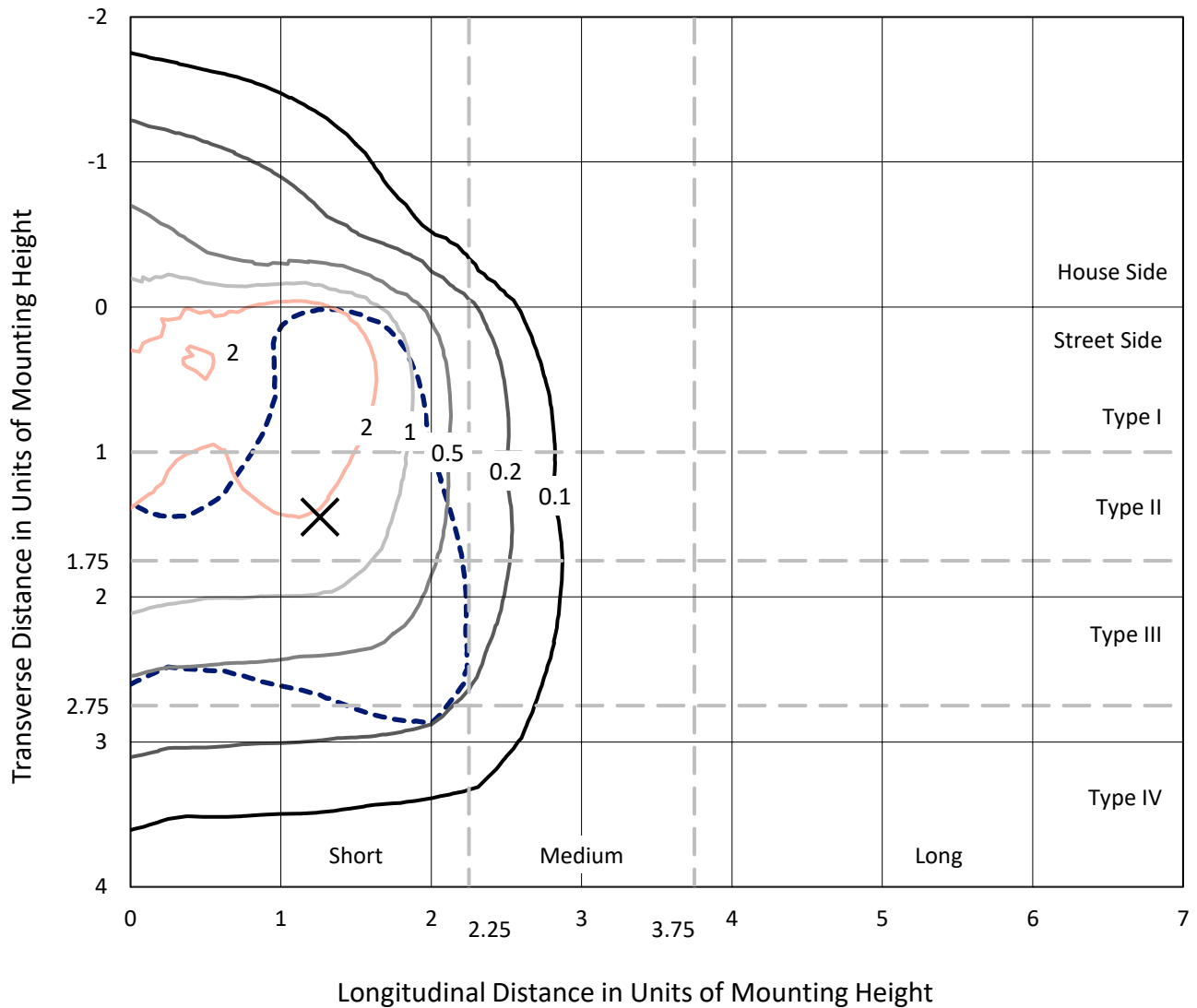
Input Watts (W): 59.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

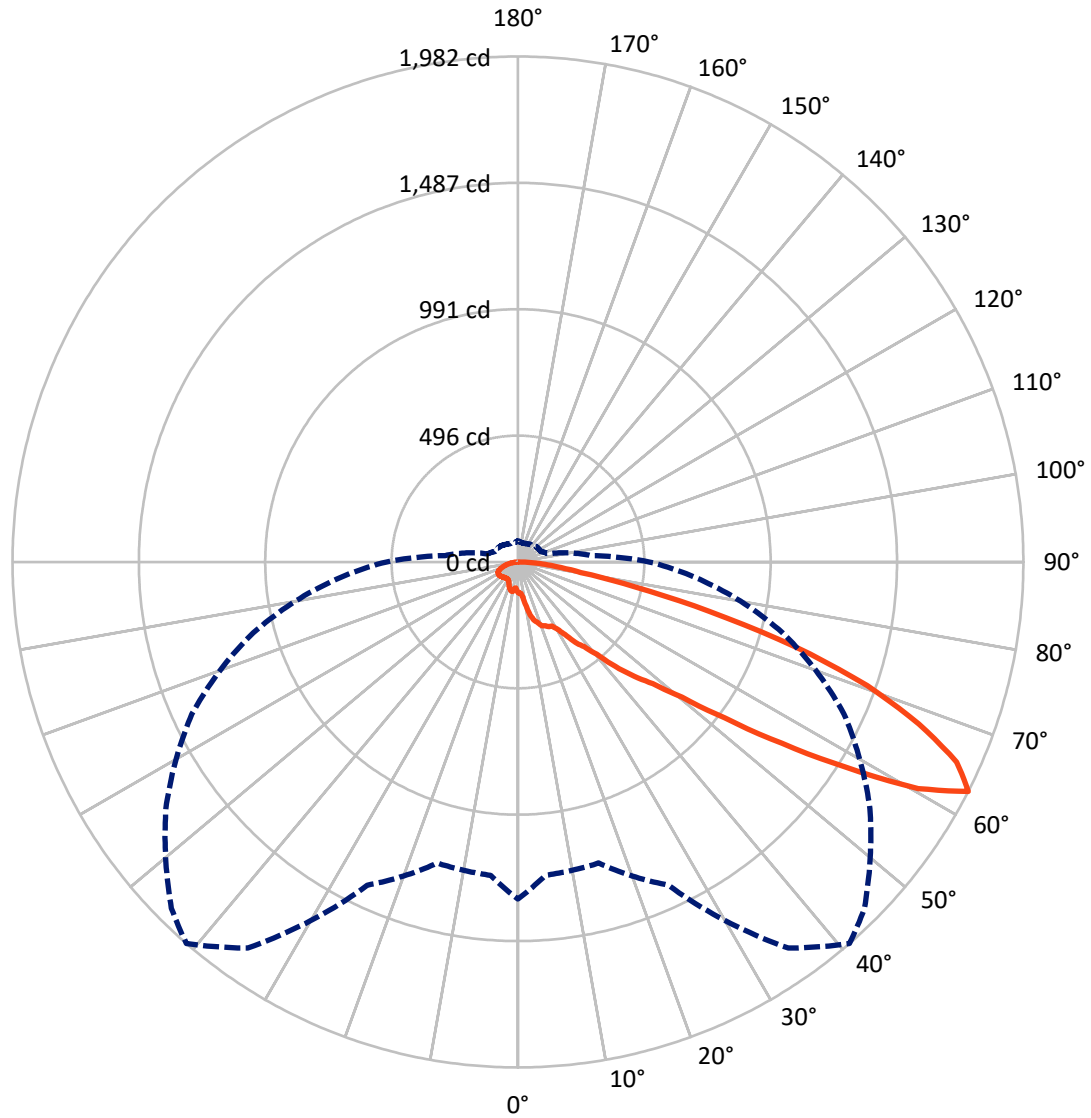
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P595994
CATALOG NUMBER: PMM-SA3A-AMB-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: PMM-SA3A-AMB-U-SL4

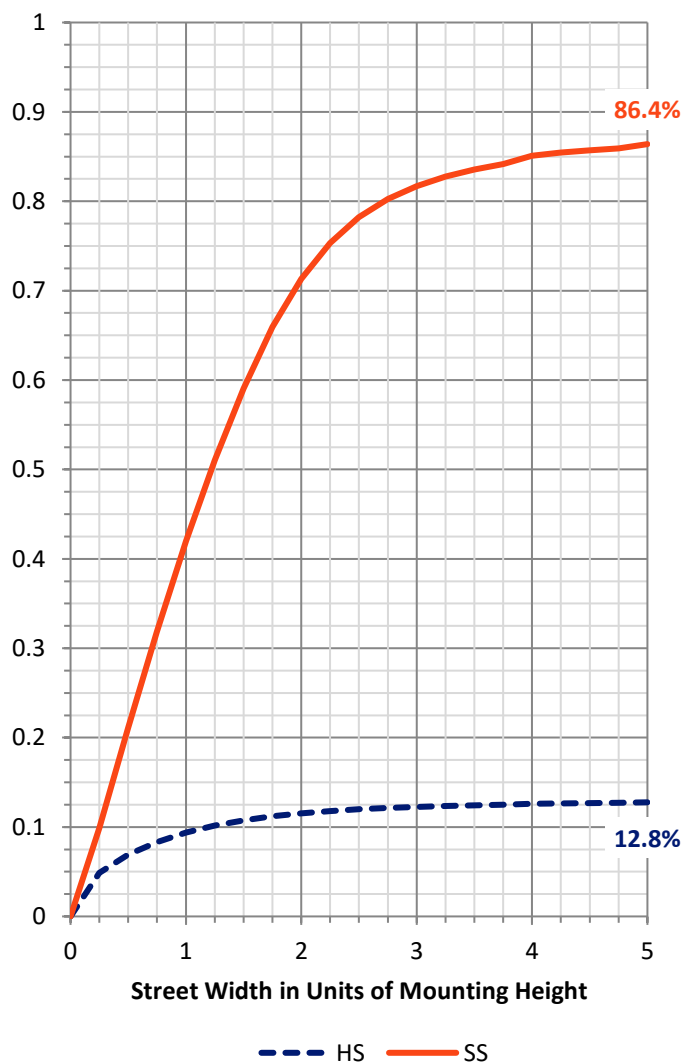
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 292.1 | 0.0 | 292.1 |
| | % Fixture | 12.9 | 0.0 | 12.9 |
| Street Side | Lumens | 1971.9 | 0.0 | 1971.9 |
| | % Fixture | 87.1 | 0.0 | 87.1 |
| Total | Lumens | 2264.0 | 0.0 | 2264.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 13.7 | 0.6 |
| 10°-20° | 50.2 | 2.2 |
| 20°-30° | 94.0 | 4.1 |
| 30°-40° | 166.5 | 7.4 |
| 40°-50° | 340.4 | 15.0 |
| 50°-60° | 636.5 | 28.1 |
| 60°-70° | 651.0 | 28.8 |
| 70°-80° | 265.6 | 11.7 |
| 80°-90° | 46.1 | 2.0 |
| 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° | 2264.0 | 100.0 |
| 0°-180° | 2264.0 | 100.0 |

Coefficient of Utilization



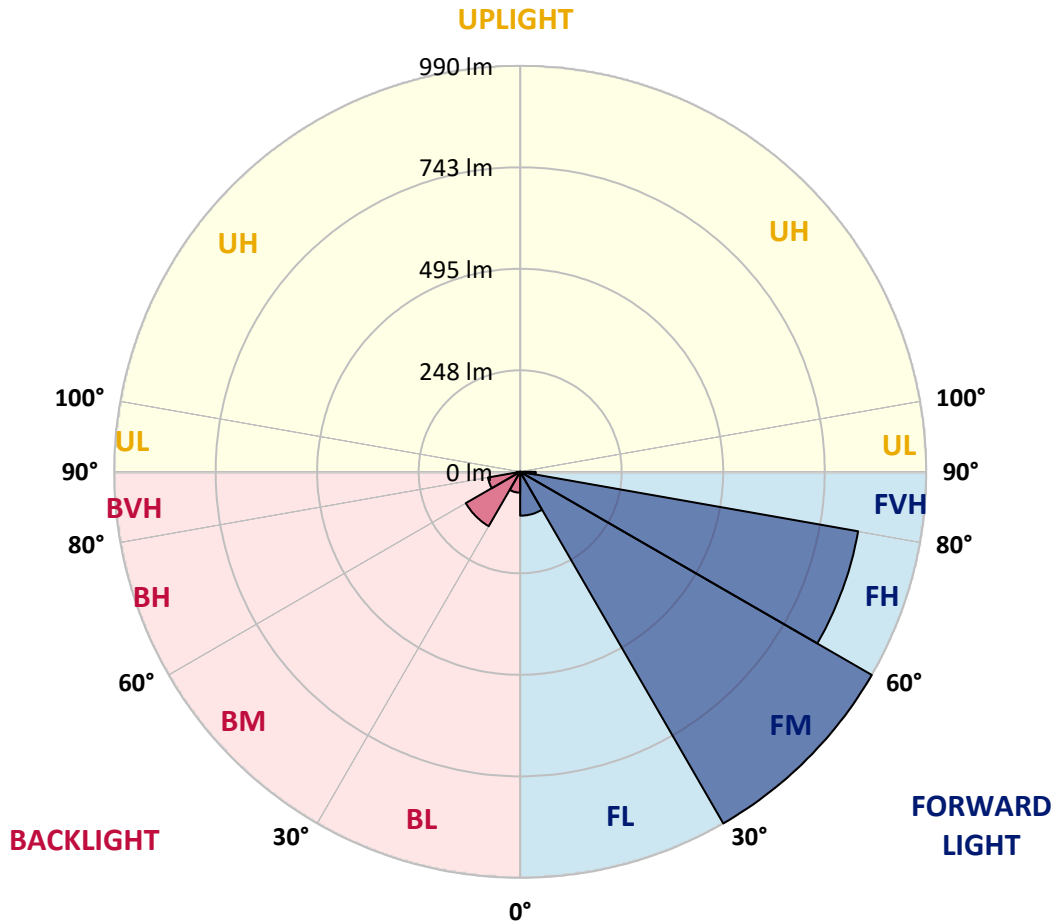
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 106.9 | 4.7 | | | |
| FM (30°-60°) | 990.3 | 43.7 | | | |
| FH (60°-80°) | 836.9 | 37.0 | | | G1/1800 |
| FVH (80°-90°) | 37.8 | 1.7 | | | G1/100 |
| BL (0°-30°) | 50.9 | 2.2 | B0/110 | | |
| BM (30°-60°) | 153.1 | 6.8 | B0/220 | | |
| BH (60°-80°) | 79.8 | 3.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 8.4 | 0.4 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Short





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CATALOG NUMBER: PMM-SA3A-AMB-U-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 41° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 |
| 2.5° | 162.0 | 141.3 | 135.7 | 122.9 | 122.1 | 122.1 | 125.3 | 122.1 | 120.5 | 125.3 | 139.7 |
| 5° | 190.8 | 169.2 | 167.6 | 150.9 | 130.1 | 124.5 | 123.7 | 126.9 | 142.1 | 168.4 | 164.4 |
| 7.5° | 205.1 | 196.4 | 194.0 | 173.2 | 145.3 | 138.9 | 137.3 | 154.1 | 169.2 | 182.8 | 183.6 |
| 10° | 205.1 | 200.4 | 192.4 | 174.0 | 172.4 | 174.8 | 178.0 | 172.4 | 181.2 | 192.4 | 187.6 |
| 12.5° | 196.4 | 196.4 | 209.9 | 202.8 | 209.1 | 213.1 | 215.5 | 207.5 | 208.3 | 203.5 | 200.4 |
| 15° | 213.1 | 216.3 | 217.9 | 223.5 | 229.9 | 237.1 | 237.1 | 231.5 | 229.1 | 225.1 | 213.9 |
| 17.5° | 235.5 | 239.5 | 236.3 | 246.7 | 253.8 | 249.0 | 251.4 | 245.9 | 237.9 | 249.0 | 235.5 |
| 20° | 257.8 | 261.8 | 258.6 | 252.2 | 268.2 | 266.6 | 261.8 | 256.2 | 245.9 | 262.6 | 253.8 |
| 22.5° | 289.0 | 281.0 | 270.6 | 268.2 | 273.8 | 271.4 | 268.2 | 256.2 | 254.6 | 269.8 | 276.2 |
| 25° | 308.9 | 308.1 | 291.4 | 285.8 | 285.0 | 281.0 | 277.0 | 269.8 | 276.2 | 296.1 | 286.6 |
| 27.5° | 338.4 | 339.2 | 306.5 | 321.7 | 303.3 | 284.2 | 282.6 | 280.2 | 298.5 | 304.9 | 303.3 |
| 30° | 374.4 | 375.2 | 339.2 | 338.4 | 324.9 | 306.5 | 295.3 | 305.7 | 323.3 | 326.5 | 328.9 |
| 32.5° | 427.9 | 426.3 | 378.4 | 363.2 | 350.4 | 338.4 | 331.3 | 311.3 | 343.2 | 366.4 | 360.8 |
| 35° | 473.3 | 467.8 | 425.5 | 399.9 | 377.6 | 387.9 | 361.6 | 362.4 | 387.1 | 427.1 | 399.9 |
| 37.5° | 553.2 | 542.0 | 479.7 | 438.2 | 436.6 | 420.7 | 419.9 | 429.4 | 460.6 | 506.1 | 488.5 |
| 40° | 628.2 | 597.1 | 522.0 | 490.9 | 470.2 | 476.5 | 495.7 | 481.3 | 538.8 | 637.0 | 613.0 |
| 42.5° | 708.8 | 668.1 | 569.1 | 543.6 | 535.6 | 560.4 | 527.6 | 542.0 | 653.7 | 805.4 | 740.0 |
| 45° | 774.3 | 720.8 | 597.1 | 597.9 | 606.7 | 639.4 | 622.6 | 653.0 | 829.4 | 1035.3 | 911.6 |
| 47.5° | 824.6 | 770.3 | 647.4 | 638.6 | 657.7 | 712.8 | 747.1 | 815.0 | 1042.5 | 1279.6 | 1096.0 |
| 50° | 866.1 | 824.6 | 701.6 | 695.3 | 769.5 | 833.4 | 895.6 | 989.8 | 1290.7 | 1539.8 | 1265.2 |
| 52.5° | 923.6 | 881.2 | 793.4 | 807.0 | 930.7 | 1016.9 | 1063.2 | 1278.0 | 1535.8 | 1780.1 | 1357.8 |
| 55° | 1038.5 | 965.9 | 917.2 | 951.5 | 1147.1 | 1255.6 | 1319.5 | 1541.4 | 1777.7 | 1844.7 | 1322.7 |
| 57.5° | 1152.6 | 1068.8 | 1037.7 | 1118.3 | 1349.0 | 1521.4 | 1621.2 | 1777.7 | 1824.8 | 1752.1 | 1167.8 |
| 60° | 1284.4 | 1195.7 | 1172.6 | 1312.3 | 1618.0 | 1804.0 | 1824.0 | 1784.0 | 1719.4 | 1486.3 | 956.3 |
| 62.5° | 1321.9 | 1233.3 | 1222.1 | 1398.5 | 1847.9 | 1982.0 | 1921.3 | 1685.1 | 1410.5 | 1074.4 | 697.7 |
| 65° | 1274.0 | 1183.0 | 1214.1 | 1416.1 | 1888.6 | 1891.0 | 1859.9 | 1448.0 | 1016.9 | 744.7 | 498.1 |
| 67.5° | 1132.7 | 1029.7 | 1093.6 | 1327.5 | 1715.4 | 1696.2 | 1635.6 | 1151.0 | 721.6 | 530.8 | 352.8 |
| 70° | 861.3 | 795.8 | 889.2 | 1080.8 | 1470.3 | 1452.8 | 1292.3 | 885.2 | 500.5 | 351.2 | 206.7 |
| 72.5° | 666.5 | 608.3 | 672.1 | 851.7 | 1180.6 | 1137.5 | 957.9 | 622.6 | 314.5 | 188.4 | 111.0 |
| 75° | 488.5 | 429.4 | 498.1 | 618.6 | 853.3 | 775.1 | 653.7 | 379.2 | 167.6 | 97.4 | 75.8 |
| 77.5° | 317.7 | 276.2 | 327.3 | 383.9 | 549.2 | 467.0 | 360.8 | 228.3 | 102.2 | 65.5 | 59.9 |
| 80° | 178.8 | 163.6 | 192.4 | 223.5 | 291.4 | 249.8 | 205.1 | 170.8 | 76.6 | 50.3 | 45.5 |
| 82.5° | 111.0 | 107.0 | 129.3 | 142.9 | 162.0 | 150.1 | 138.9 | 150.1 | 57.5 | 33.5 | 30.3 |
| 85° | 66.3 | 66.3 | 87.0 | 89.4 | 102.2 | 96.6 | 107.0 | 118.9 | 32.7 | 20.0 | 19.2 |
| 87.5° | 16.8 | 17.6 | 25.5 | 27.1 | 27.1 | 27.1 | 29.5 | 44.7 | 8.8 | 6.4 | 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-SA3A-AMB-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 |
| 2.5° | 142.9 | 125.3 | 128.5 | 116.5 | 111.8 | 111.8 | 113.3 | 110.2 | 120.5 | 116.5 | 128.5 |
| 5° | 177.2 | 156.5 | 149.3 | 127.7 | 109.4 | 99.8 | 104.6 | 119.7 | 130.1 | 130.1 | 141.3 |
| 7.5° | 192.4 | 174.0 | 162.0 | 131.7 | 109.4 | 101.4 | 107.0 | 113.3 | 121.3 | 126.1 | 134.1 |
| 10° | 186.8 | 174.8 | 158.8 | 132.5 | 126.9 | 120.5 | 108.6 | 100.6 | 103.8 | 103.0 | 106.2 |
| 12.5° | 198.0 | 183.6 | 166.0 | 146.9 | 137.3 | 124.5 | 108.6 | 97.4 | 91.8 | 89.4 | 89.4 |
| 15° | 202.0 | 194.0 | 173.2 | 151.7 | 135.7 | 118.9 | 103.8 | 91.8 | 85.4 | 81.4 | 80.6 |
| 17.5° | 219.5 | 212.3 | 178.0 | 153.3 | 130.9 | 114.9 | 99.8 | 89.4 | 83.8 | 81.4 | 79.0 |
| 20° | 238.7 | 222.7 | 175.6 | 143.7 | 124.5 | 107.0 | 93.4 | 85.4 | 83.0 | 84.6 | 85.4 |
| 22.5° | 255.4 | 226.7 | 172.4 | 130.9 | 111.0 | 98.2 | 89.4 | 83.0 | 82.2 | 84.6 | 84.6 |
| 25° | 264.2 | 233.9 | 166.0 | 122.9 | 100.6 | 87.8 | 83.0 | 81.4 | 81.4 | 85.4 | 84.6 |
| 27.5° | 277.0 | 231.5 | 154.9 | 114.1 | 92.6 | 82.2 | 81.4 | 80.6 | 79.8 | 84.6 | 84.6 |
| 30° | 283.4 | 243.5 | 146.9 | 105.4 | 87.0 | 79.0 | 78.2 | 79.8 | 80.6 | 86.2 | 86.2 |
| 32.5° | 308.9 | 240.3 | 144.5 | 99.8 | 83.0 | 78.2 | 78.2 | 79.0 | 82.2 | 87.0 | 88.6 |
| 35° | 331.3 | 253.8 | 139.7 | 95.0 | 81.4 | 77.4 | 79.0 | 79.0 | 83.0 | 89.4 | 91.0 |
| 37.5° | 390.3 | 270.6 | 138.9 | 94.2 | 82.2 | 79.0 | 78.2 | 79.8 | 84.6 | 91.0 | 93.4 |
| 40° | 463.0 | 300.9 | 137.3 | 95.0 | 83.0 | 80.6 | 79.0 | 80.6 | 84.6 | 91.0 | 94.2 |
| 42.5° | 554.8 | 340.0 | 140.5 | 97.4 | 85.4 | 81.4 | 80.6 | 81.4 | 84.6 | 90.2 | 93.4 |
| 45° | 666.5 | 377.6 | 143.7 | 98.2 | 87.0 | 84.6 | 81.4 | 82.2 | 83.8 | 88.6 | 91.8 |
| 47.5° | 784.7 | 424.7 | 151.7 | 101.4 | 90.2 | 87.0 | 82.2 | 81.4 | 82.2 | 86.2 | 89.4 |
| 50° | 891.6 | 471.8 | 155.7 | 105.4 | 94.2 | 88.6 | 83.8 | 81.4 | 80.6 | 83.8 | 87.8 |
| 52.5° | 933.1 | 482.1 | 156.5 | 107.8 | 98.2 | 91.0 | 84.6 | 81.4 | 79.0 | 81.4 | 86.2 |
| 55° | 891.6 | 455.0 | 153.3 | 108.6 | 99.8 | 92.6 | 86.2 | 82.2 | 78.2 | 80.6 | 84.6 |
| 57.5° | 789.4 | 411.1 | 148.5 | 107.8 | 99.8 | 92.6 | 86.2 | 81.4 | 77.4 | 79.0 | 83.0 |
| 60° | 660.9 | 354.4 | 137.3 | 104.6 | 99.8 | 92.6 | 86.2 | 80.6 | 76.6 | 78.2 | 82.2 |
| 62.5° | 515.7 | 286.6 | 122.9 | 98.2 | 95.8 | 91.0 | 83.8 | 79.0 | 76.6 | 79.0 | 83.0 |
| 65° | 394.3 | 215.5 | 105.4 | 90.2 | 90.2 | 86.2 | 81.4 | 75.8 | 74.2 | 75.8 | 79.0 |
| 67.5° | 262.6 | 150.1 | 91.8 | 83.0 | 82.2 | 80.6 | 77.4 | 70.2 | 66.3 | 66.3 | 67.8 |
| 70° | 156.5 | 102.2 | 78.2 | 73.4 | 73.4 | 71.8 | 70.2 | 63.1 | 58.3 | 57.5 | 58.3 |
| 72.5° | 99.8 | 81.4 | 67.8 | 63.9 | 63.9 | 62.3 | 61.5 | 56.7 | 51.9 | 50.3 | 51.1 |
| 75° | 77.4 | 70.2 | 59.1 | 55.1 | 55.1 | 54.3 | 53.5 | 48.7 | 45.5 | 43.9 | 43.1 |
| 77.5° | 65.5 | 59.9 | 49.5 | 46.3 | 46.3 | 43.9 | 43.9 | 40.7 | 37.5 | 35.1 | 33.5 |
| 80° | 49.5 | 48.7 | 39.1 | 36.7 | 38.3 | 34.3 | 35.1 | 32.7 | 28.7 | 24.7 | 23.1 |
| 82.5° | 34.3 | 36.7 | 28.7 | 26.3 | 26.3 | 23.1 | 25.5 | 23.1 | 20.8 | 17.6 | 15.2 |
| 85° | 23.1 | 24.7 | 18.4 | 15.2 | 13.6 | 10.4 | 13.6 | 13.6 | 12.0 | 9.6 | 8.0 |
| 87.5° | 3.2 | 4.8 | 4.8 | 4.8 | 4.0 | 1.6 | 4.8 | 4.8 | 4.8 | 4.8 | 2.4 |
| 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)