

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: P598568

Luminaire Tested: **PMM-SA4D-835-U-RW**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-7)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4D-835-U-RW
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22273 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

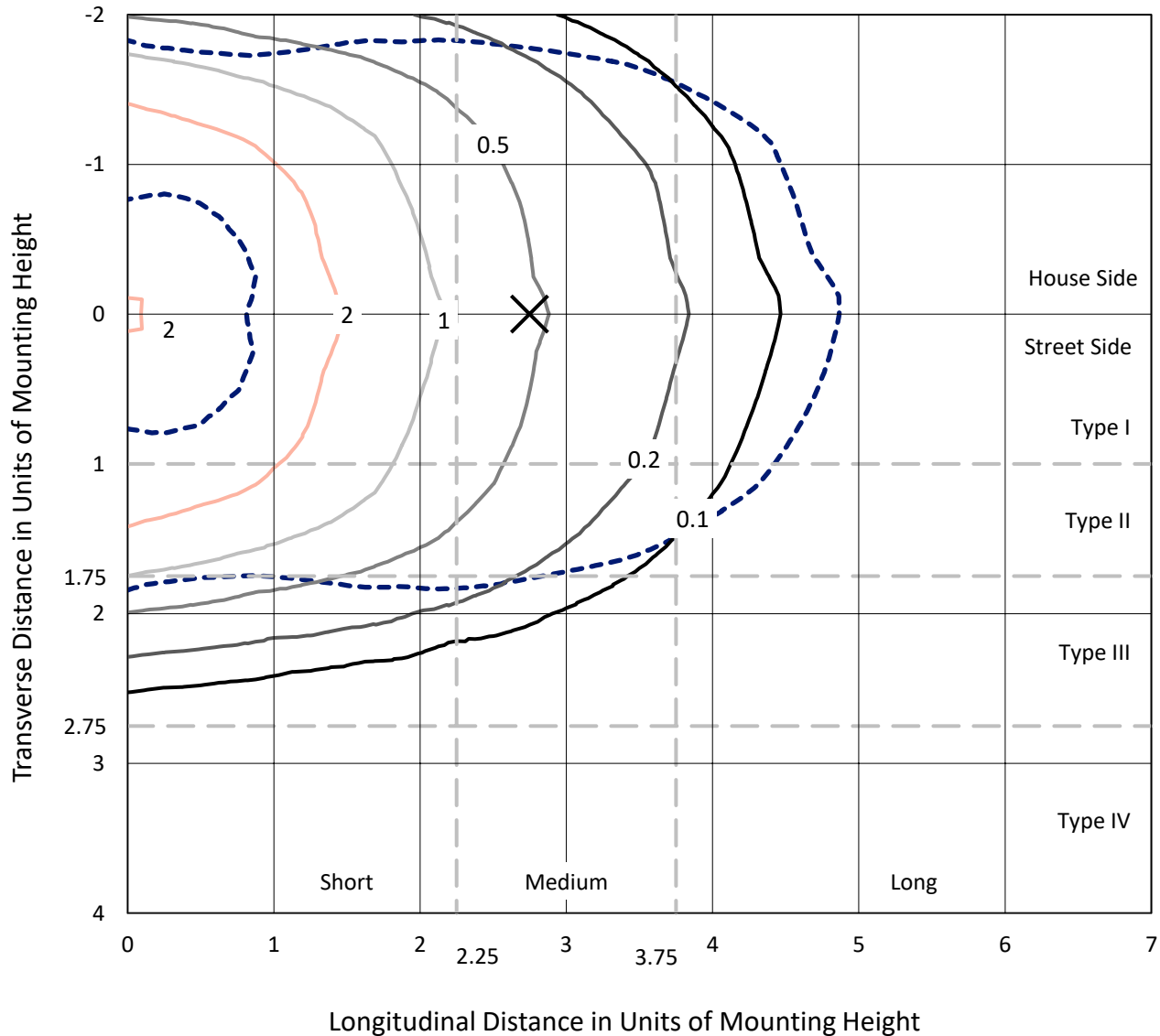
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

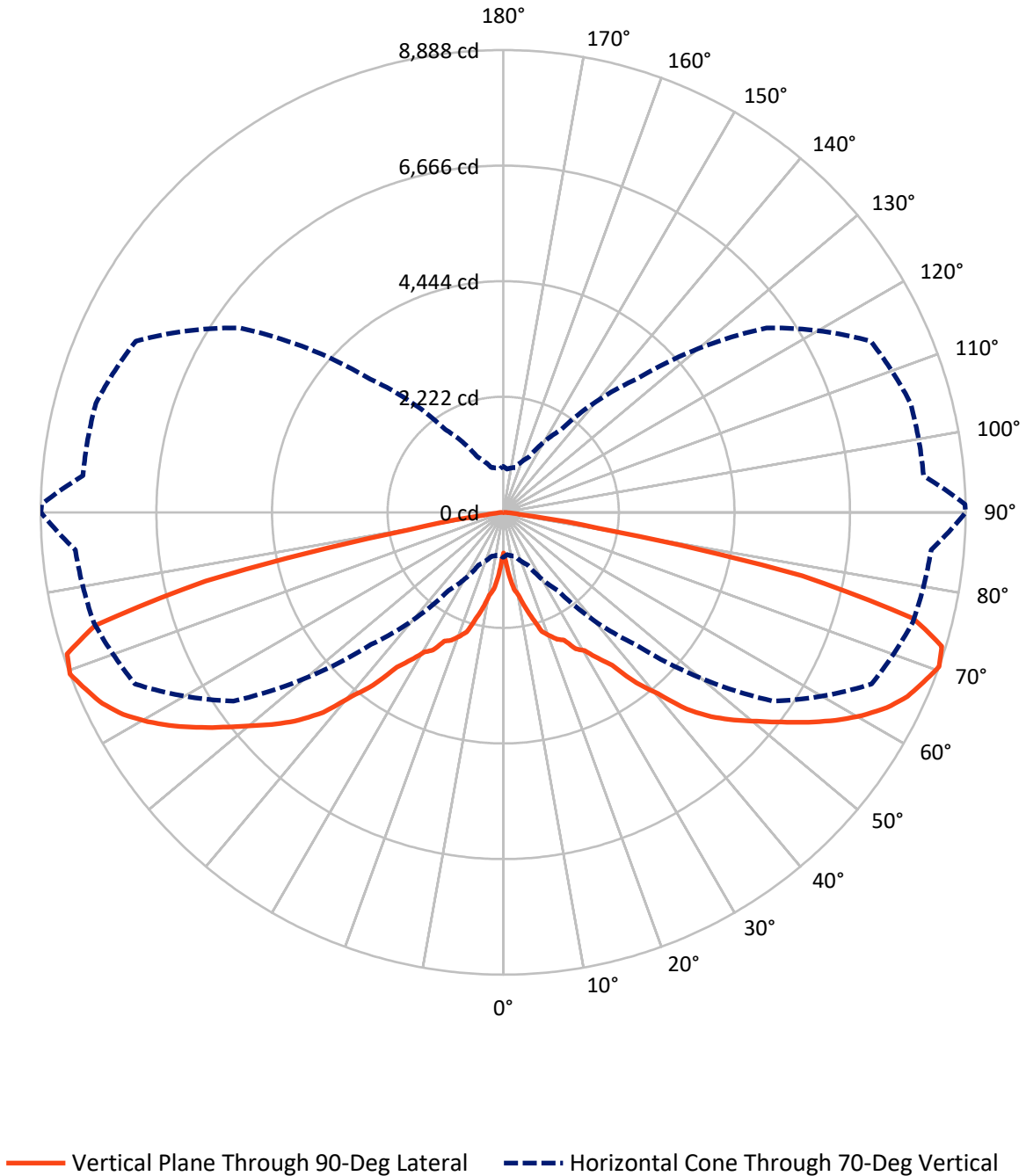
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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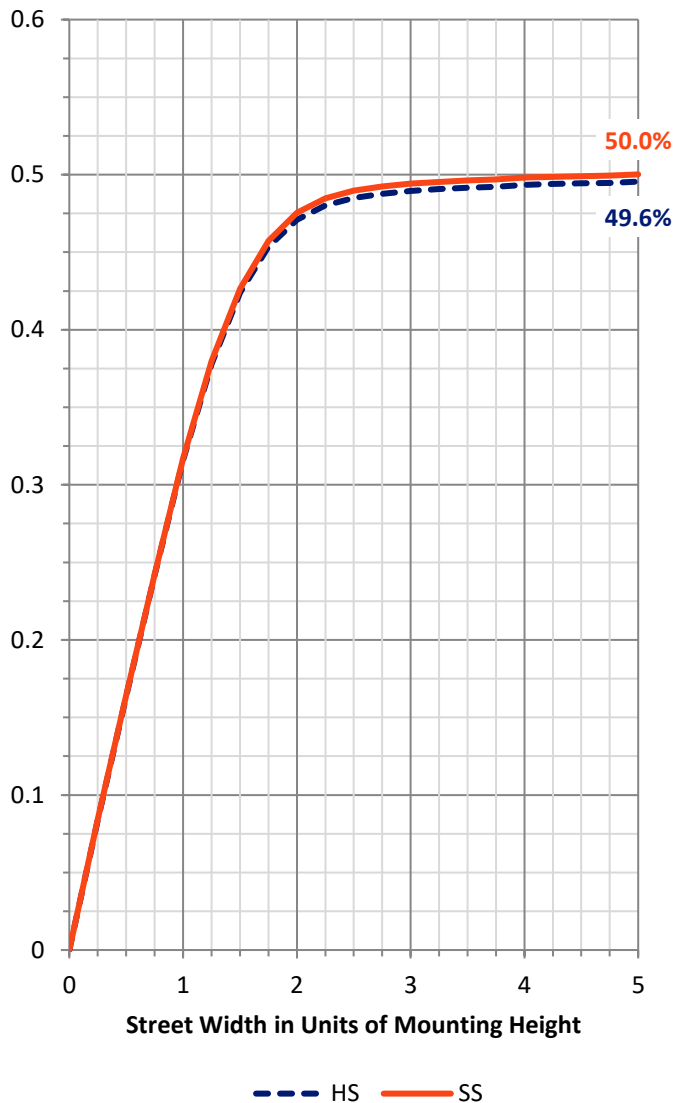
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11095.2 | 0.0 | 11095.2 |
| | % Fixture | 49.8 | 0.0 | 49.8 |
| Street Side | Lumens | 11177.7 | 0.0 | 11177.7 |
| | % Fixture | 50.2 | 0.0 | 50.2 |
| Total | Lumens | 22273.0 | 0.0 | 22273.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 117.9 | 0.5 |
| 10°-20° | 540.5 | 2.4 |
| 20°-30° | 1168.6 | 5.2 |
| 30°-40° | 2229.6 | 10.0 |
| 40°-50° | 4050.4 | 18.2 |
| 50°-60° | 5689.8 | 25.5 |
| 60°-70° | 5432.6 | 24.4 |
| 70°-80° | 2788.1 | 12.5 |
| 80°-90° | 255.6 | 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° | 22273.0 | 100.0 |
| 0°-180° | 22273.0 | 100.0 |



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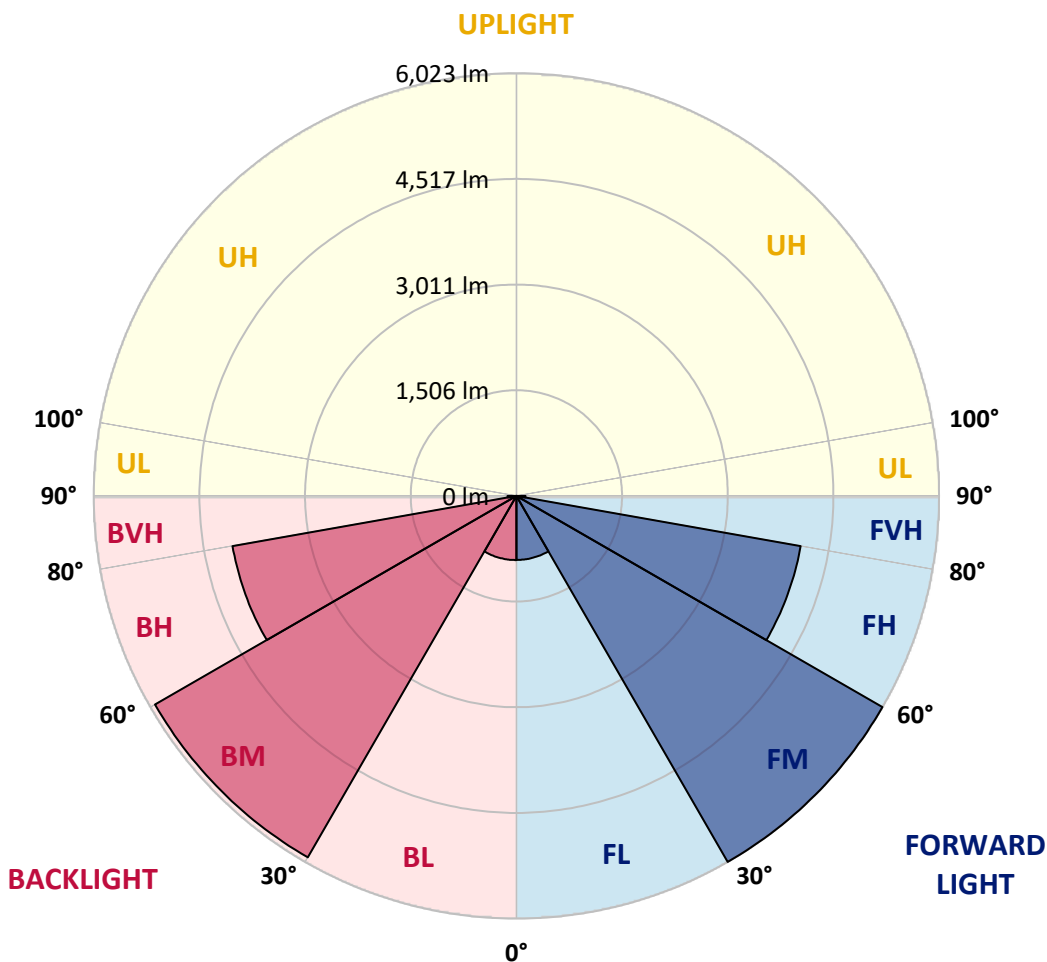
CATALOG NUMBER: PMM-SA4D-835-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 912.6 | 4.1 | | | |
| FM | (30°-60°) | 6022.9 | 27.0 | | | |
| FH | (60°-80°) | 4112.6 | 18.5 | | | G2/5000 |
| FVH | (80°-90°) | 129.7 | 0.6 | | | G2/225 |
| BL | (0°-30°) | 914.4 | 4.1 | B2/1000 | | |
| BM | (30°-60°) | 5946.9 | 26.7 | B4/8500 | | |
| BH | (60°-80°) | 4108.1 | 18.4 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 125.9 | 0.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 |
| 2.5° | 946.9 | 911.7 | 867.5 | 893.7 | 904.5 | 923.5 | 920.7 | 911.7 | 872.9 | 937.9 | 945.1 |
| 5° | 1185.2 | 1129.3 | 1108.5 | 1104.9 | 1110.3 | 1092.3 | 1150.9 | 1133.8 | 1165.4 | 1224.1 | 1237.6 |
| 7.5° | 1349.5 | 1308.0 | 1263.8 | 1277.3 | 1221.3 | 1213.2 | 1289.0 | 1356.7 | 1373.9 | 1481.3 | 1488.5 |
| 10° | 1427.2 | 1386.5 | 1398.3 | 1390.1 | 1383.8 | 1436.2 | 1471.4 | 1521.0 | 1592.3 | 1602.3 | 1617.6 |
| 12.5° | 1493.1 | 1509.3 | 1560.8 | 1559.0 | 1643.8 | 1736.8 | 1723.2 | 1774.7 | 1786.4 | 1911.0 | 1873.1 |
| 15° | 1660.1 | 1693.5 | 1689.8 | 1721.4 | 1758.4 | 1911.0 | 1911.9 | 1999.5 | 2079.8 | 2128.5 | 2115.9 |
| 17.5° | 1904.7 | 1916.4 | 1867.7 | 1869.5 | 1976.9 | 2039.2 | 2108.7 | 2093.3 | 2302.8 | 2398.5 | 2404.8 |
| 20° | 2050.9 | 2080.7 | 2024.7 | 1950.7 | 2141.2 | 2226.9 | 2265.8 | 2176.4 | 2400.3 | 2529.3 | 2529.3 |
| 22.5° | 2306.4 | 2229.7 | 2144.8 | 2095.1 | 2263.1 | 2354.2 | 2349.7 | 2324.4 | 2443.6 | 2672.0 | 2650.3 |
| 25° | 2447.2 | 2403.9 | 2361.4 | 2374.1 | 2458.9 | 2505.9 | 2568.2 | 2509.5 | 2621.4 | 2791.1 | 2719.8 |
| 27.5° | 2714.4 | 2634.1 | 2425.5 | 2591.6 | 2591.6 | 2556.4 | 2688.2 | 2716.2 | 2643.1 | 2919.3 | 2972.6 |
| 30° | 3016.8 | 2988.8 | 2693.6 | 2869.7 | 2815.5 | 2716.2 | 2969.0 | 2950.9 | 2828.1 | 3109.8 | 3085.4 |
| 32.5° | 3303.0 | 3395.0 | 3115.2 | 3018.6 | 3099.8 | 3137.8 | 3005.1 | 3059.2 | 3082.7 | 3354.4 | 3342.7 |
| 35° | 3741.7 | 3819.3 | 3448.3 | 3423.9 | 3288.5 | 3253.3 | 3354.4 | 3372.5 | 3374.3 | 3660.4 | 3608.1 |
| 37.5° | 4500.8 | 4388.9 | 4022.4 | 3850.0 | 3865.3 | 3822.9 | 3842.8 | 3700.1 | 3720.0 | 4135.2 | 4161.4 |
| 40° | 5056.0 | 4929.6 | 4521.6 | 4397.9 | 4094.6 | 4276.1 | 4115.4 | 4100.9 | 4061.2 | 4599.2 | 4584.8 |
| 42.5° | 5668.9 | 5495.6 | 5044.2 | 4879.1 | 4556.8 | 4482.8 | 4408.8 | 4575.7 | 4564.9 | 5063.2 | 5173.3 |
| 45° | 6132.0 | 5781.7 | 5546.1 | 5443.2 | 5250.1 | 5068.6 | 4998.2 | 5073.1 | 5038.8 | 5408.9 | 5601.2 |
| 47.5° | 6424.5 | 6120.3 | 5849.4 | 5632.8 | 5447.8 | 5892.8 | 5536.2 | 5436.0 | 5366.5 | 5780.8 | 5965.9 |
| 50° | 6657.4 | 6306.2 | 5986.7 | 5914.4 | 6060.7 | 6454.3 | 5891.9 | 5670.7 | 5755.6 | 6060.7 | 6312.5 |
| 52.5° | 6720.5 | 6348.6 | 6061.6 | 6015.5 | 6410.9 | 6482.2 | 6391.1 | 6019.2 | 5996.6 | 6396.5 | 6700.7 |
| 55° | 6527.4 | 6170.8 | 6034.5 | 6286.4 | 6723.3 | 6663.7 | 6802.7 | 6565.3 | 6405.5 | 6739.5 | 7122.2 |
| 57.5° | 6030.0 | 5676.1 | 5643.6 | 6006.5 | 6557.2 | 7064.5 | 7133.1 | 6945.3 | 6735.9 | 7089.7 | 7541.1 |
| 60° | 5213.1 | 4889.9 | 4972.0 | 5372.8 | 6203.3 | 6925.5 | 7290.1 | 7118.6 | 7053.6 | 7405.7 | 7929.3 |
| 62.5° | 3941.2 | 3689.3 | 3908.7 | 4467.4 | 5557.0 | 6745.8 | 7506.8 | 7479.7 | 7385.8 | 7741.5 | 8272.3 |
| 65° | 2513.1 | 2380.4 | 2604.3 | 3172.1 | 4554.1 | 6419.0 | 7610.6 | 7646.7 | 7733.4 | 8000.6 | 8537.7 |
| 67.5° | 1460.6 | 1390.1 | 1526.5 | 1991.3 | 3243.4 | 5270.8 | 7417.4 | 7935.6 | 7980.7 | 8134.2 | 8711.9 |
| 70° | 863.9 | 817.8 | 873.8 | 1118.4 | 1836.1 | 3590.9 | 6327.0 | 7809.2 | 8150.4 | 8256.9 | 8887.9 |
| 72.5° | 659.0 | 615.6 | 591.3 | 661.7 | 958.7 | 1855.0 | 4277.9 | 6619.4 | 8014.1 | 8175.7 | 8813.9 |
| 75° | 569.6 | 528.1 | 499.2 | 505.5 | 570.5 | 881.0 | 2319.0 | 4734.6 | 6828.9 | 7444.5 | 8141.4 |
| 77.5° | 489.3 | 452.2 | 431.5 | 429.7 | 437.8 | 483.8 | 969.5 | 2567.3 | 4277.0 | 5351.2 | 5869.3 |
| 80° | 391.8 | 362.9 | 358.4 | 358.4 | 346.6 | 343.0 | 482.0 | 976.7 | 1627.6 | 1930.0 | 1850.5 |
| 82.5° | 286.2 | 257.3 | 286.2 | 282.5 | 264.5 | 250.0 | 306.9 | 422.5 | 501.9 | 396.3 | 313.2 |
| 85° | 193.2 | 167.0 | 188.7 | 192.3 | 175.1 | 130.0 | 184.1 | 211.2 | 216.6 | 135.4 | 111.9 |
| 87.5° | 67.7 | 65.9 | 106.5 | 93.0 | 75.8 | 44.2 | 67.7 | 73.1 | 76.7 | 47.8 | 32.5 |
| 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-SA4D-835-U-RW

CANDELA DISTRIBUTION (continued):

| | 91° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 | 781.7 |
| 2.5° | 947.8 | 937.0 | 882.8 | 891.0 | 911.7 | 921.6 | 931.6 | 891.0 | 871.1 | 934.3 | 928.0 |
| 5° | 1241.2 | 1201.5 | 1157.3 | 1150.9 | 1153.6 | 1114.8 | 1137.4 | 1127.5 | 1132.0 | 1172.6 | 1180.7 |
| 7.5° | 1486.7 | 1438.9 | 1380.2 | 1334.2 | 1254.7 | 1191.6 | 1244.8 | 1271.9 | 1280.0 | 1352.2 | 1379.3 |
| 10° | 1619.4 | 1578.8 | 1561.7 | 1475.0 | 1448.8 | 1440.7 | 1428.1 | 1384.7 | 1432.6 | 1415.4 | 1429.0 |
| 12.5° | 1879.4 | 1871.3 | 1781.9 | 1725.0 | 1730.5 | 1745.8 | 1666.4 | 1623.0 | 1560.8 | 1658.2 | 1623.0 |
| 15° | 2100.6 | 2135.8 | 2046.4 | 1942.6 | 1891.1 | 1917.3 | 1856.8 | 1793.7 | 1737.7 | 1767.5 | 1729.6 |
| 17.5° | 2383.1 | 2382.2 | 2208.0 | 2097.0 | 2092.4 | 2090.6 | 2001.3 | 1862.3 | 1929.1 | 1908.3 | 1910.1 |
| 20° | 2533.0 | 2508.6 | 2291.9 | 2163.8 | 2273.0 | 2234.2 | 2153.8 | 1975.1 | 2052.7 | 2078.0 | 2094.2 |
| 22.5° | 2658.4 | 2644.9 | 2382.2 | 2288.3 | 2358.7 | 2359.6 | 2279.3 | 2185.4 | 2175.5 | 2254.0 | 2211.6 |
| 25° | 2746.0 | 2800.2 | 2552.8 | 2530.2 | 2560.9 | 2530.2 | 2451.7 | 2390.3 | 2350.6 | 2468.0 | 2350.6 |
| 27.5° | 2953.6 | 2876.9 | 2579.0 | 2707.2 | 2726.1 | 2571.8 | 2670.2 | 2597.9 | 2487.8 | 2633.2 | 2681.0 |
| 30° | 3101.7 | 3146.8 | 2763.1 | 2956.3 | 2933.8 | 2791.1 | 2831.7 | 2829.0 | 2697.2 | 2980.7 | 2947.3 |
| 32.5° | 3356.2 | 3302.0 | 3063.7 | 3048.4 | 3102.6 | 3096.2 | 3027.6 | 3061.0 | 3093.5 | 3299.3 | 3349.0 |
| 35° | 3617.1 | 3674.9 | 3256.0 | 3359.8 | 3344.5 | 3247.0 | 3426.6 | 3405.9 | 3502.4 | 3924.9 | 3785.0 |
| 37.5° | 4205.6 | 3930.3 | 3687.5 | 3674.0 | 3776.9 | 3792.2 | 3734.4 | 3825.6 | 4034.1 | 4359.1 | 4508.9 |
| 40° | 4591.1 | 4465.6 | 4053.1 | 4069.3 | 3926.7 | 4172.2 | 4009.8 | 4303.1 | 4462.0 | 5009.9 | 4956.7 |
| 42.5° | 5174.2 | 4868.2 | 4471.9 | 4526.1 | 4497.2 | 4379.0 | 4592.9 | 4743.7 | 4971.1 | 5389.1 | 5659.0 |
| 45° | 5608.4 | 5188.7 | 5000.9 | 4967.5 | 4963.9 | 5169.7 | 5142.6 | 5383.7 | 5464.9 | 5779.0 | 6002.9 |
| 47.5° | 5937.9 | 5581.3 | 5303.3 | 5341.2 | 5231.1 | 5818.8 | 5505.5 | 5580.4 | 5744.7 | 6040.8 | 6301.7 |
| 50° | 6328.8 | 5931.6 | 5615.7 | 5709.5 | 5977.6 | 6203.3 | 5919.9 | 5791.7 | 5872.0 | 6221.4 | 6512.0 |
| 52.5° | 6690.8 | 6272.8 | 5925.3 | 6003.8 | 6441.6 | 6338.7 | 6308.0 | 5983.9 | 5974.0 | 6254.8 | 6585.1 |
| 55° | 7114.1 | 6642.9 | 6336.0 | 6585.1 | 6740.4 | 6613.1 | 6564.4 | 6169.9 | 5926.2 | 6082.3 | 6393.8 |
| 57.5° | 7529.4 | 7009.4 | 6704.3 | 6755.8 | 6952.5 | 6826.2 | 6460.6 | 5853.1 | 5548.9 | 5579.5 | 5894.6 |
| 60° | 7918.4 | 7346.1 | 7094.3 | 7044.6 | 7201.7 | 6706.1 | 6066.1 | 5272.6 | 4869.1 | 4795.1 | 5067.7 |
| 62.5° | 8251.5 | 7627.8 | 7389.4 | 7254.0 | 7403.9 | 6710.6 | 5451.4 | 4341.0 | 3897.8 | 3646.9 | 3859.0 |
| 65° | 8516.0 | 7861.6 | 7691.8 | 7621.4 | 7675.6 | 6302.6 | 4493.6 | 3187.4 | 2644.0 | 2366.0 | 2489.6 |
| 67.5° | 8692.0 | 7992.4 | 7914.8 | 8006.9 | 7284.7 | 5249.2 | 3329.1 | 2040.1 | 1537.3 | 1385.6 | 1463.3 |
| 70° | 8874.4 | 8108.0 | 8105.3 | 7792.0 | 6177.1 | 3618.9 | 1944.4 | 1176.2 | 894.6 | 835.9 | 884.6 |
| 72.5° | 8813.0 | 7970.8 | 8011.4 | 6814.4 | 4280.6 | 1934.5 | 1026.4 | 665.3 | 605.7 | 626.5 | 669.8 |
| 75° | 8161.2 | 7246.8 | 7050.9 | 4898.9 | 2428.2 | 899.1 | 591.3 | 503.7 | 500.1 | 531.7 | 574.1 |
| 77.5° | 5919.9 | 5047.0 | 4528.8 | 2776.7 | 1040.8 | 486.6 | 435.1 | 420.7 | 420.7 | 445.9 | 483.8 |
| 80° | 1951.6 | 1688.9 | 1760.3 | 1074.2 | 492.0 | 335.8 | 339.4 | 345.7 | 343.9 | 350.2 | 381.8 |
| 82.5° | 320.5 | 332.2 | 513.6 | 438.7 | 297.0 | 229.3 | 256.4 | 269.0 | 272.6 | 243.7 | 277.1 |
| 85° | 113.7 | 128.2 | 218.5 | 203.1 | 171.5 | 115.5 | 168.8 | 188.7 | 186.0 | 162.5 | 179.6 |
| 87.5° | 35.2 | 45.1 | 79.4 | 61.4 | 51.5 | 31.6 | 63.2 | 74.0 | 93.0 | 37.9 | 34.3 |
| 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)