

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: P598576

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4D-835-U-SLL
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18579 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

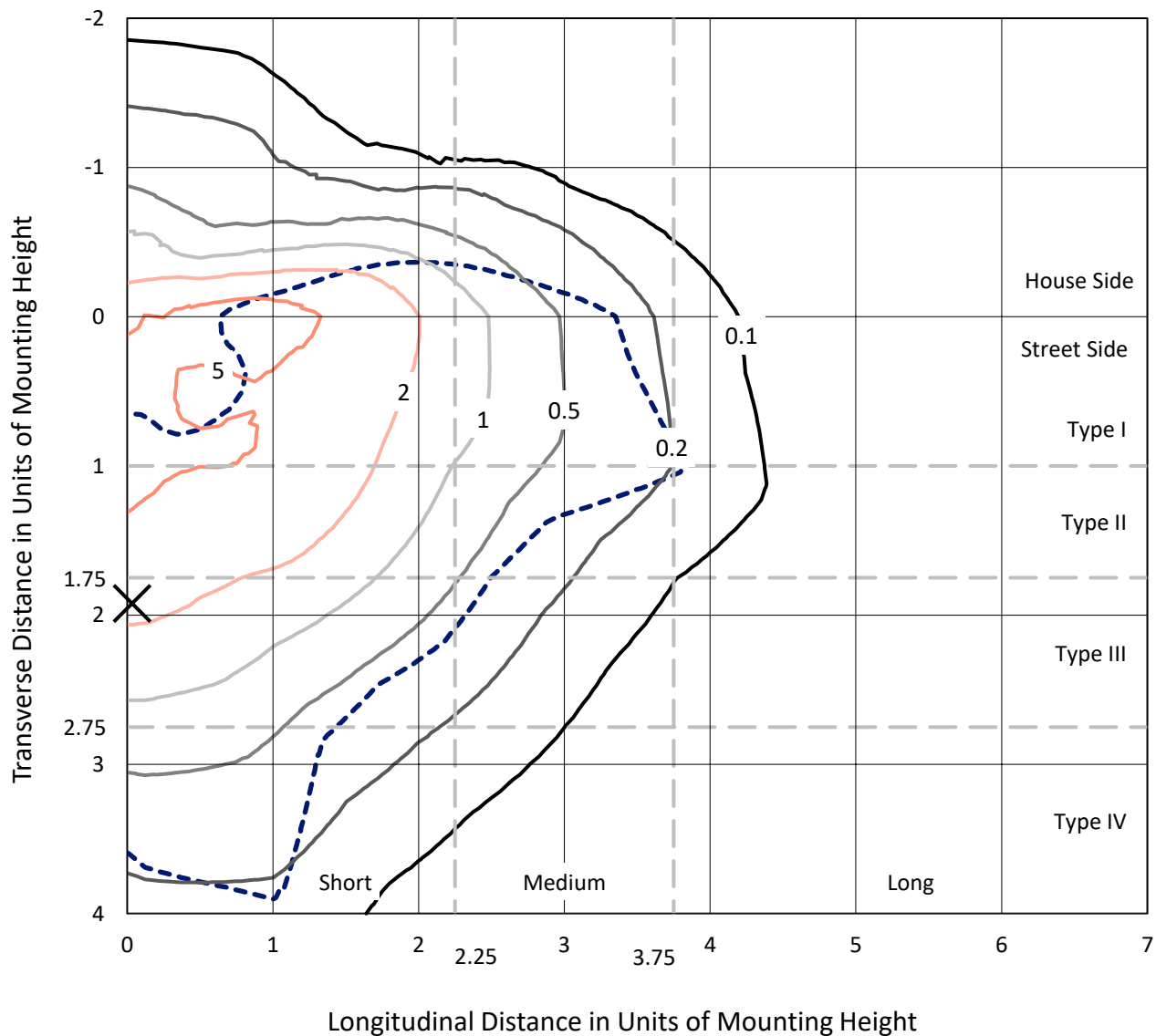
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

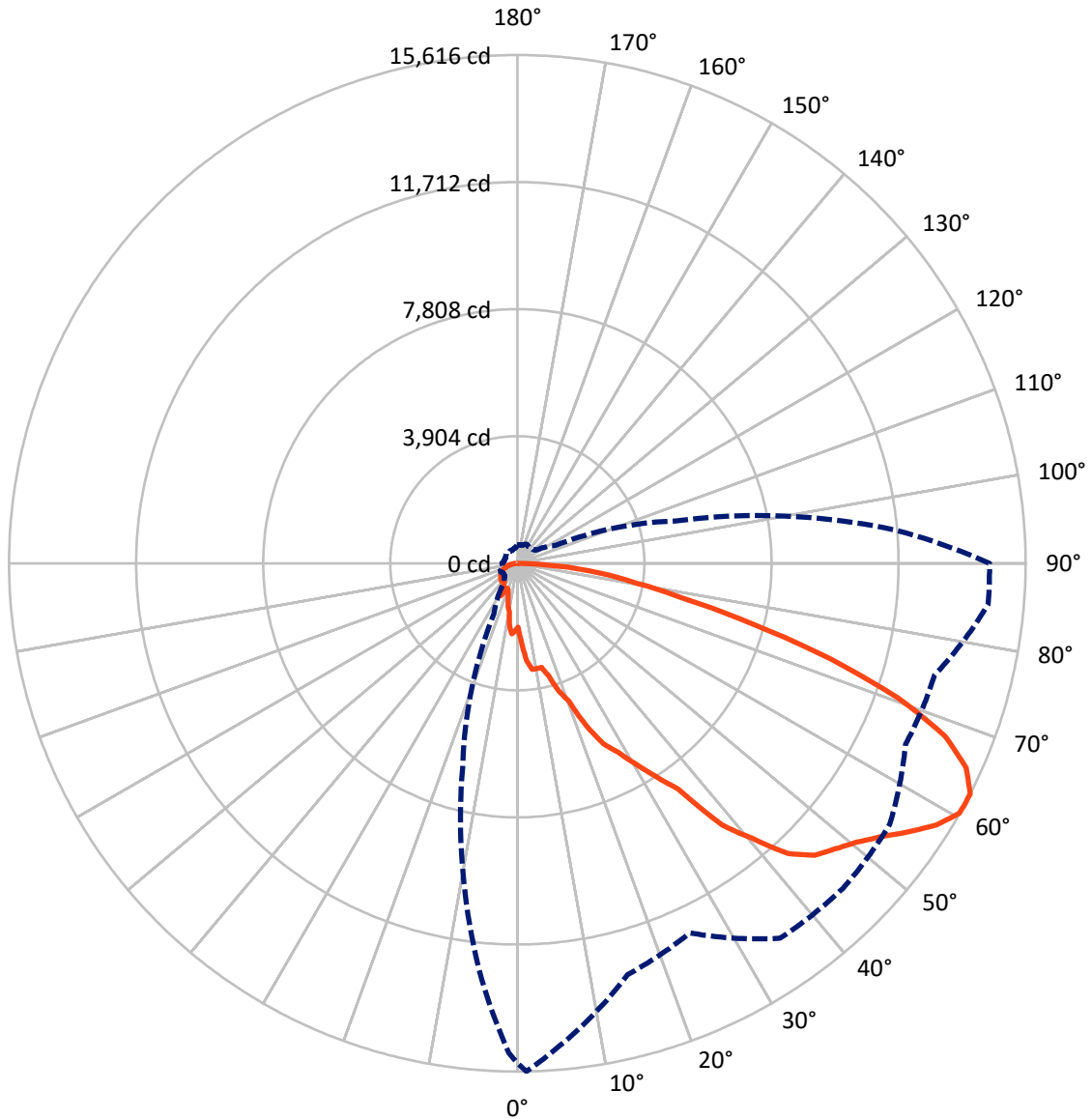
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 1-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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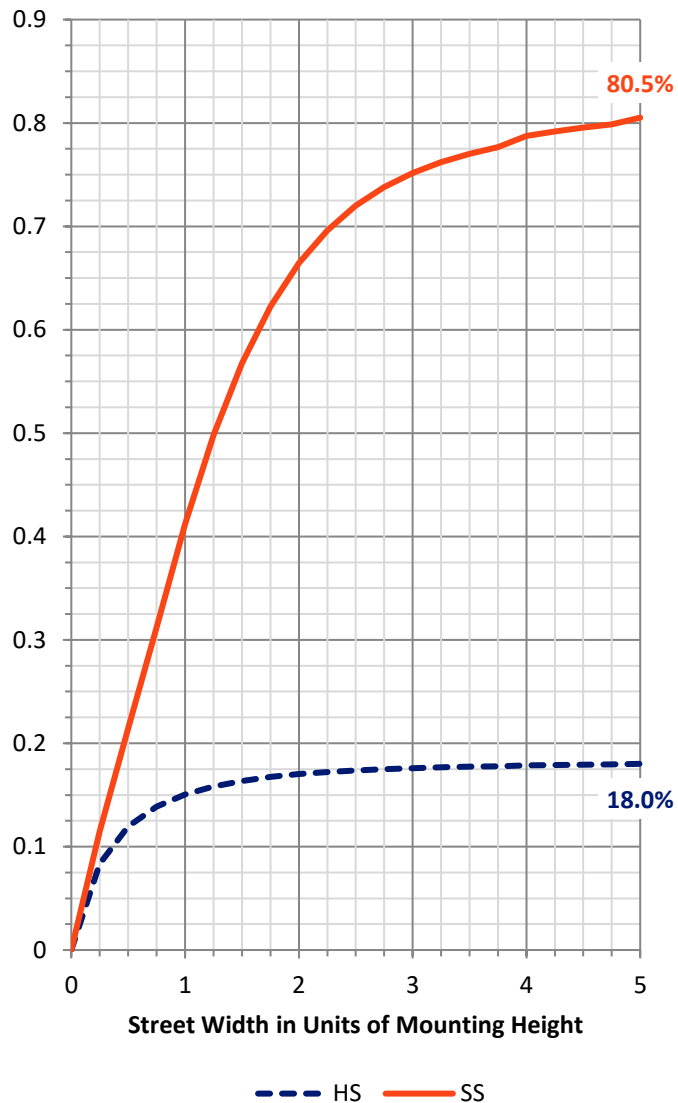
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3383.1 | 0.0 | 3383.1 |
| | % Fixture | 18.2 | 0.0 | 18.2 |
| Street Side | Lumens | 15195.9 | 0.0 | 15195.9 |
| | % Fixture | 81.8 | 0.0 | 81.8 |
| Total | Lumens | 18579.0 | 0.0 | 18579.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 224.6 | 1.2 |
| 10°-20° | 652.6 | 3.5 |
| 20°-30° | 1152.2 | 6.2 |
| 30°-40° | 1794.7 | 9.7 |
| 40°-50° | 2955.2 | 15.9 |
| 50°-60° | 4217.8 | 22.7 |
| 60°-70° | 4472.5 | 24.1 |
| 70°-80° | 2470.4 | 13.3 |
| 80°-90° | 639.0 | 3.4 |
| 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° | 18579.0 | 100.0 |
| 0°-180° | 18579.0 | 100.0 |

Coefficient of Utilization



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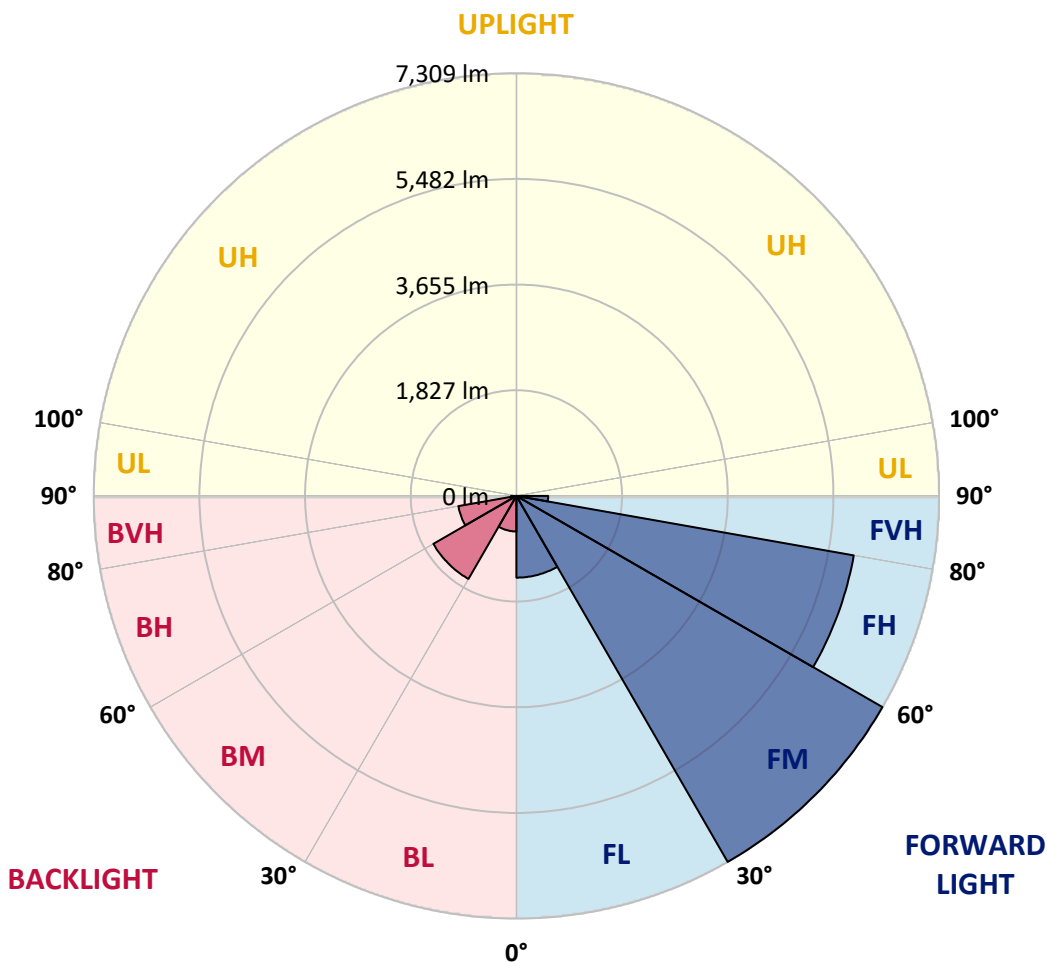
CATALOG NUMBER: PMM-SA4D-835-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1414.1 | 7.6 | | | |
| FM (30°-60°) | 7309.2 | 39.3 | | | |
| FH (60°-80°) | 5923.7 | 31.9 | | | G3/7500 |
| FVH (80°-90°) | 548.9 | 3.0 | | | G4/750 |
| BL (0°-30°) | 615.3 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1658.5 | 8.9 | B2/2500 | | |
| BH (60°-80°) | 1019.2 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 90.1 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 |
| 2.5° | 2409.0 | 2429.8 | 2387.4 | 2339.6 | 2142.2 | 2332.4 | 2275.6 | 2381.1 | 2346.8 | 2117.8 | 2537.1 |
| 5° | 2977.0 | 3014.9 | 2973.4 | 3116.8 | 3125.8 | 3162.7 | 2821.0 | 3033.8 | 2959.9 | 2941.0 | 3152.8 |
| 7.5° | 3251.1 | 3289.9 | 3395.4 | 3650.5 | 3849.8 | 3669.4 | 3470.2 | 3426.0 | 3368.3 | 3217.7 | 3345.8 |
| 10° | 3268.2 | 3289.9 | 3431.4 | 3972.4 | 4068.8 | 4196.9 | 4067.9 | 3764.1 | 3638.8 | 3311.5 | 3214.1 |
| 12.5° | 3216.8 | 3284.5 | 3467.5 | 4126.5 | 4413.2 | 4553.0 | 4584.5 | 4246.4 | 3939.0 | 3565.8 | 3516.2 |
| 15° | 3562.1 | 3586.5 | 3848.9 | 4236.5 | 4434.0 | 4552.1 | 4654.9 | 4446.6 | 4350.1 | 4054.4 | 3656.8 |
| 17.5° | 4057.1 | 4124.7 | 4339.3 | 4482.7 | 4616.1 | 4638.6 | 4553.9 | 4472.7 | 4319.5 | 4714.4 | 4291.5 |
| 20° | 4392.5 | 4523.2 | 4786.5 | 4813.5 | 4533.2 | 4582.7 | 4571.0 | 4576.4 | 4489.0 | 5219.3 | 4986.6 |
| 22.5° | 5279.7 | 5421.2 | 5457.3 | 5300.4 | 4772.1 | 4545.8 | 4590.9 | 4721.6 | 5066.0 | 5691.7 | 5954.9 |
| 25° | 6083.0 | 6138.0 | 6467.0 | 6063.1 | 5221.1 | 4727.9 | 4654.0 | 4992.1 | 5553.7 | 6486.9 | 6674.4 |
| 27.5° | 6502.2 | 6573.4 | 6792.5 | 5913.5 | 5277.0 | 4493.5 | 4320.4 | 4835.2 | 5407.7 | 6112.7 | 6935.9 |
| 30° | 7038.6 | 7152.2 | 7450.7 | 6063.1 | 5445.6 | 4646.8 | 4263.6 | 4755.8 | 5388.8 | 6358.0 | 7489.4 |
| 32.5° | 7591.3 | 7812.2 | 8034.0 | 6590.6 | 5422.1 | 4881.2 | 4626.9 | 4666.6 | 5560.1 | 6871.9 | 8062.8 |
| 35° | 8323.4 | 8518.1 | 8709.3 | 6895.3 | 5894.5 | 5076.8 | 4824.4 | 5244.5 | 6000.0 | 7467.8 | 8862.5 |
| 37.5° | 9888.5 | 10196.9 | 9692.9 | 7762.6 | 6408.4 | 5958.6 | 5503.3 | 5752.1 | 6465.2 | 7964.6 | 10168.9 |
| 40° | 10885.7 | 11117.4 | 10630.5 | 8353.2 | 7313.6 | 6552.7 | 6477.9 | 6498.6 | 7106.3 | 8390.1 | 11048.0 |
| 42.5° | 11876.5 | 12190.3 | 11415.8 | 9163.7 | 8408.2 | 7779.7 | 7393.9 | 7367.7 | 7823.9 | 9154.7 | 12047.8 |
| 45° | 12615.8 | 12800.7 | 11685.4 | 9847.1 | 9582.0 | 9115.9 | 8826.5 | 8367.6 | 8767.0 | 9683.9 | 12666.3 |
| 47.5° | 12967.4 | 13118.0 | 12119.1 | 10244.7 | 10342.9 | 10367.3 | 10889.3 | 10106.7 | 9591.0 | 10041.8 | 12990.9 |
| 50° | 13406.5 | 13477.7 | 12374.2 | 10594.5 | 11066.0 | 12135.3 | 12260.6 | 10934.4 | 10393.4 | 10432.2 | 13182.9 |
| 52.5° | 13931.2 | 13961.0 | 12746.6 | 10998.4 | 11797.2 | 13298.3 | 13104.5 | 12337.2 | 11157.1 | 11145.4 | 13544.5 |
| 55° | 14591.2 | 14573.2 | 13213.6 | 11542.0 | 12319.2 | 13989.8 | 13842.9 | 13283.9 | 11989.2 | 11735.9 | 14107.0 |
| 57.5° | 15178.1 | 15167.3 | 13833.0 | 12042.4 | 12758.3 | 14345.1 | 14388.3 | 14240.5 | 12555.4 | 12158.7 | 14716.5 |
| 60° | 15465.7 | 15603.7 | 14538.0 | 12589.7 | 12786.2 | 14505.5 | 14521.8 | 14286.5 | 13188.3 | 12701.5 | 14878.8 |
| 62.5° | 15353.9 | 15616.3 | 14884.2 | 13081.9 | 12529.3 | 14067.4 | 14135.0 | 13972.7 | 13159.5 | 13271.3 | 14516.4 |
| 65° | 14845.4 | 15148.4 | 14584.0 | 13344.3 | 12371.5 | 13333.5 | 13350.6 | 12940.4 | 12747.5 | 13649.0 | 13667.1 |
| 67.5° | 13891.6 | 14175.6 | 13628.3 | 12926.0 | 11291.4 | 11355.4 | 11737.7 | 11771.0 | 11489.8 | 13364.1 | 12474.3 |
| 70° | 12221.8 | 12422.0 | 12079.4 | 11892.8 | 9437.8 | 9062.7 | 9477.4 | 9655.0 | 9783.1 | 12335.4 | 11042.6 |
| 72.5° | 9675.8 | 10062.6 | 10116.6 | 10238.4 | 7598.5 | 6973.7 | 7281.2 | 7017.9 | 7851.9 | 10498.9 | 9022.1 |
| 75° | 7158.6 | 7484.9 | 7835.6 | 8514.5 | 5989.2 | 5221.1 | 5183.2 | 5048.9 | 5827.8 | 8443.3 | 6691.5 |
| 77.5° | 5058.8 | 5267.0 | 5536.6 | 6801.5 | 4519.6 | 4021.1 | 4044.5 | 3908.4 | 4208.6 | 6381.4 | 4622.4 |
| 80° | 3626.2 | 3735.3 | 3860.6 | 4480.9 | 3334.0 | 3469.3 | 3472.9 | 3344.0 | 3129.4 | 4333.9 | 3085.2 |
| 82.5° | 2583.9 | 2668.7 | 2812.0 | 2955.4 | 2485.7 | 2843.6 | 2840.9 | 2832.8 | 2481.2 | 2929.2 | 1930.3 |
| 85° | 1438.9 | 1552.5 | 1801.4 | 2315.3 | 1795.0 | 2033.1 | 1787.8 | 1969.1 | 1821.2 | 1950.1 | 977.3 |
| 87.5° | 101.0 | 90.2 | 403.0 | 1341.6 | 837.6 | 612.2 | 321.0 | 635.6 | 815.0 | 1018.8 | 136.1 |
| 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-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 |
| 2.5° | 2623.6 | 2655.2 | 2531.6 | 2345.9 | 2396.4 | 2341.4 | 2272.0 | 2163.8 | 1941.1 | 2079.0 | 2079.9 |
| 5° | 3151.0 | 3031.1 | 2934.6 | 2843.6 | 2690.3 | 2458.6 | 2428.0 | 2242.2 | 2137.7 | 2192.6 | 2184.5 |
| 7.5° | 3316.0 | 3145.6 | 3000.5 | 2675.0 | 2391.0 | 2031.3 | 1923.1 | 1813.1 | 1767.1 | 1900.5 | 1953.7 |
| 10° | 3134.8 | 2957.2 | 2814.7 | 2418.9 | 2226.0 | 2001.5 | 1704.0 | 1551.6 | 1461.5 | 1496.6 | 1517.4 |
| 12.5° | 3280.9 | 3099.6 | 2651.6 | 2430.7 | 2112.4 | 1975.4 | 1714.8 | 1491.2 | 1357.8 | 1390.2 | 1351.5 |
| 15° | 3421.5 | 3177.2 | 2729.1 | 2289.1 | 2031.3 | 1832.9 | 1621.9 | 1391.1 | 1234.3 | 1178.4 | 1148.6 |
| 17.5° | 3935.4 | 3529.7 | 2720.1 | 2209.8 | 1914.1 | 1686.0 | 1431.7 | 1179.3 | 1074.7 | 1017.0 | 967.4 |
| 20° | 4562.0 | 3996.7 | 2768.8 | 2127.7 | 1789.6 | 1502.0 | 1225.2 | 990.8 | 917.8 | 879.9 | 866.4 |
| 22.5° | 5307.6 | 4595.4 | 3047.3 | 2116.0 | 1672.4 | 1367.7 | 1111.7 | 965.6 | 883.5 | 842.1 | 824.9 |
| 25° | 5900.0 | 5214.7 | 3252.9 | 2195.4 | 1666.1 | 1256.8 | 1043.1 | 1072.9 | 1035.0 | 1047.6 | 947.6 |
| 27.5° | 6475.2 | 5383.3 | 3137.5 | 2160.2 | 1498.4 | 1060.3 | 1026.9 | 1089.1 | 1121.6 | 1131.5 | 1127.9 |
| 30° | 6961.1 | 6095.6 | 3162.7 | 1961.8 | 1265.8 | 863.7 | 786.2 | 816.8 | 906.1 | 1047.6 | 1074.7 |
| 32.5° | 7672.5 | 6436.4 | 3378.2 | 1841.9 | 1131.5 | 772.7 | 686.1 | 674.4 | 695.1 | 746.5 | 790.7 |
| 35° | 8504.6 | 7220.8 | 3438.6 | 1810.4 | 1038.6 | 732.1 | 671.7 | 644.6 | 655.4 | 694.2 | 703.2 |
| 37.5° | 10056.2 | 7792.4 | 3662.2 | 1771.6 | 1004.4 | 707.7 | 660.9 | 650.9 | 674.4 | 705.9 | 724.0 |
| 40° | 10911.8 | 8820.2 | 3673.0 | 1738.2 | 960.2 | 697.8 | 668.1 | 663.6 | 678.0 | 721.3 | 732.1 |
| 42.5° | 12052.3 | 9406.2 | 3842.5 | 1699.5 | 944.9 | 711.3 | 682.5 | 680.7 | 693.3 | 718.6 | 738.4 |
| 45° | 12747.5 | 9798.4 | 3851.6 | 1676.9 | 941.3 | 770.9 | 701.4 | 695.1 | 692.4 | 707.7 | 725.8 |
| 47.5° | 13195.5 | 10363.7 | 3961.5 | 1651.7 | 962.9 | 786.2 | 724.0 | 696.9 | 687.9 | 694.2 | 707.7 |
| 50° | 13620.2 | 10815.4 | 4169.8 | 1648.1 | 985.4 | 770.9 | 763.6 | 696.0 | 678.0 | 675.3 | 685.2 |
| 52.5° | 14141.3 | 11558.3 | 4426.8 | 1682.4 | 980.0 | 748.3 | 793.4 | 692.4 | 660.0 | 653.6 | 663.6 |
| 55° | 14899.5 | 12354.4 | 4699.9 | 1653.5 | 924.1 | 705.0 | 764.5 | 689.7 | 641.0 | 629.3 | 638.3 |
| 57.5° | 15390.9 | 12810.6 | 5005.6 | 1629.2 | 839.4 | 672.6 | 738.4 | 691.5 | 642.8 | 616.7 | 622.1 |
| 60° | 15227.7 | 12565.3 | 5125.5 | 1480.4 | 759.1 | 647.3 | 676.2 | 677.1 | 626.6 | 602.3 | 606.8 |
| 62.5° | 14506.4 | 11677.3 | 5013.7 | 1307.3 | 699.6 | 611.3 | 612.2 | 650.0 | 579.7 | 562.6 | 569.8 |
| 65° | 13498.5 | 10572.8 | 4561.1 | 1194.6 | 671.7 | 573.4 | 559.0 | 570.7 | 516.6 | 504.0 | 518.4 |
| 67.5° | 12261.5 | 9211.5 | 3887.6 | 1075.6 | 661.8 | 522.0 | 504.9 | 500.4 | 466.1 | 451.7 | 466.1 |
| 70° | 10709.9 | 7713.0 | 3107.8 | 991.7 | 623.9 | 466.1 | 452.6 | 448.1 | 419.2 | 408.4 | 421.0 |
| 72.5° | 8608.3 | 6022.6 | 2398.2 | 927.7 | 582.4 | 414.7 | 403.0 | 397.6 | 373.3 | 357.9 | 373.3 |
| 75° | 6122.6 | 4602.6 | 1781.5 | 829.5 | 523.8 | 362.4 | 348.9 | 341.7 | 319.2 | 304.7 | 318.3 |
| 77.5° | 4351.0 | 3454.9 | 1244.2 | 686.1 | 431.9 | 306.5 | 298.4 | 286.7 | 266.9 | 249.7 | 263.3 |
| 80° | 3216.8 | 2468.5 | 802.4 | 529.2 | 330.0 | 245.2 | 240.7 | 232.6 | 213.7 | 192.9 | 202.9 |
| 82.5° | 2117.8 | 1779.7 | 459.8 | 358.8 | 239.8 | 176.7 | 180.3 | 174.9 | 156.9 | 135.2 | 140.6 |
| 85° | 948.5 | 1053.9 | 244.3 | 197.4 | 156.0 | 106.4 | 116.3 | 112.7 | 99.2 | 78.4 | 80.2 |
| 87.5° | 91.1 | 177.6 | 74.8 | 72.1 | 57.7 | 33.4 | 41.5 | 35.2 | 29.8 | 18.9 | 14.4 |
| 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-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 | 1959.1 |
| 2.5° | 2111.5 | 1984.4 | 1857.3 | 1934.8 | 1936.6 | 1957.3 | 1960.0 | 1883.4 | 1944.7 | 1991.6 | 2040.3 |
| 5° | 2144.9 | 2061.9 | 2066.4 | 1991.6 | 1951.0 | 2003.3 | 1992.5 | 1971.8 | 2008.7 | 2060.1 | 2122.3 |
| 7.5° | 1903.2 | 1849.1 | 1840.1 | 1768.0 | 1593.1 | 1554.3 | 1586.8 | 1600.3 | 1649.9 | 1729.2 | 1796.0 |
| 10° | 1485.8 | 1593.1 | 1472.3 | 1444.3 | 1398.4 | 1308.2 | 1255.9 | 1249.6 | 1355.1 | 1419.1 | 1475.0 |
| 12.5° | 1338.8 | 1311.8 | 1297.4 | 1220.7 | 1220.7 | 1125.2 | 1094.5 | 1122.5 | 1284.8 | 1330.7 | 1402.9 |
| 15° | 1140.5 | 1120.7 | 1053.9 | 1016.1 | 998.1 | 959.3 | 991.7 | 1018.8 | 1170.3 | 1173.9 | 1249.6 |
| 17.5° | 946.7 | 934.9 | 871.8 | 864.6 | 846.6 | 829.5 | 859.2 | 924.1 | 1006.2 | 991.7 | 1026.9 |
| 20° | 846.6 | 806.0 | 748.3 | 769.0 | 750.1 | 736.6 | 724.0 | 815.9 | 873.6 | 892.6 | 913.3 |
| 22.5° | 821.3 | 747.4 | 713.2 | 694.2 | 695.1 | 673.5 | 676.2 | 752.8 | 840.3 | 852.0 | 839.4 |
| 25° | 938.5 | 806.9 | 696.0 | 641.0 | 620.3 | 613.1 | 633.8 | 701.4 | 806.9 | 832.2 | 842.1 |
| 27.5° | 1098.1 | 876.3 | 716.8 | 623.0 | 581.5 | 585.1 | 614.9 | 661.8 | 786.2 | 831.3 | 843.0 |
| 30° | 1053.9 | 824.0 | 717.7 | 609.5 | 558.1 | 577.0 | 587.8 | 632.9 | 770.0 | 837.6 | 896.2 |
| 32.5° | 813.2 | 741.1 | 722.2 | 620.3 | 599.6 | 569.8 | 585.1 | 628.4 | 722.2 | 764.5 | 767.2 |
| 35° | 688.8 | 633.8 | 621.2 | 595.9 | 567.1 | 554.5 | 571.6 | 609.5 | 670.8 | 696.9 | 693.3 |
| 37.5° | 683.4 | 623.0 | 573.4 | 562.6 | 550.9 | 547.3 | 557.2 | 592.3 | 654.5 | 700.5 | 690.6 |
| 40° | 692.4 | 617.6 | 567.1 | 548.2 | 552.7 | 536.4 | 546.4 | 589.6 | 657.3 | 700.5 | 691.5 |
| 42.5° | 681.6 | 611.3 | 559.0 | 544.6 | 549.1 | 526.5 | 538.2 | 583.3 | 650.0 | 701.4 | 684.3 |
| 45° | 660.0 | 596.8 | 554.5 | 530.1 | 550.9 | 517.5 | 531.9 | 567.1 | 628.4 | 684.3 | 664.5 |
| 47.5° | 638.3 | 579.7 | 535.5 | 520.2 | 540.9 | 508.5 | 514.8 | 545.5 | 606.8 | 661.8 | 644.6 |
| 50° | 614.9 | 558.1 | 520.2 | 515.7 | 530.1 | 506.7 | 496.8 | 522.0 | 580.6 | 635.6 | 621.2 |
| 52.5° | 589.6 | 540.0 | 509.4 | 507.6 | 521.1 | 495.0 | 480.5 | 500.4 | 552.7 | 607.7 | 595.9 |
| 55° | 565.3 | 520.2 | 495.9 | 500.4 | 515.7 | 485.1 | 467.0 | 479.6 | 522.9 | 577.0 | 560.8 |
| 57.5° | 540.9 | 497.7 | 477.8 | 490.5 | 502.2 | 472.4 | 449.9 | 457.1 | 492.3 | 545.5 | 526.5 |
| 60° | 519.3 | 477.8 | 458.0 | 473.3 | 484.1 | 453.5 | 427.3 | 431.9 | 463.4 | 511.2 | 494.1 |
| 62.5° | 491.4 | 456.2 | 430.1 | 449.9 | 458.0 | 428.3 | 400.3 | 405.7 | 431.0 | 476.0 | 463.4 |
| 65° | 451.7 | 429.2 | 404.8 | 418.3 | 429.2 | 398.5 | 372.4 | 378.7 | 397.6 | 440.0 | 431.0 |
| 67.5° | 417.4 | 395.8 | 379.6 | 390.4 | 392.2 | 368.7 | 345.3 | 348.9 | 364.2 | 403.9 | 394.0 |
| 70° | 379.6 | 358.8 | 346.2 | 354.3 | 353.4 | 333.6 | 315.6 | 316.5 | 329.1 | 365.1 | 351.6 |
| 72.5° | 338.1 | 318.3 | 311.9 | 316.5 | 312.8 | 294.8 | 277.7 | 284.0 | 292.1 | 319.2 | 308.3 |
| 75° | 293.9 | 275.9 | 272.3 | 276.8 | 271.4 | 254.2 | 238.9 | 245.2 | 252.4 | 275.0 | 261.5 |
| 77.5° | 247.9 | 231.7 | 232.6 | 233.5 | 226.3 | 214.6 | 199.2 | 205.6 | 210.1 | 225.4 | 211.9 |
| 80° | 197.4 | 184.8 | 188.4 | 188.4 | 180.3 | 172.2 | 157.8 | 159.6 | 162.3 | 167.7 | 157.8 |
| 82.5° | 144.3 | 144.3 | 144.3 | 145.2 | 128.0 | 130.7 | 118.1 | 117.2 | 114.5 | 113.6 | 107.3 |
| 85° | 85.7 | 89.3 | 91.1 | 93.8 | 69.4 | 81.1 | 70.3 | 67.6 | 62.2 | 56.8 | 55.0 |
| 87.5° | 18.9 | 24.3 | 24.3 | 23.4 | 0.0 | 9.0 | 4.5 | 7.2 | 1.8 | 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 |



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| 30° | 885.4 | 923.2 | 873.6 | 902.5 | 1241.5 | 2061.0 | 3676.6 | 6193.9 | 6880.9 | 7038.6 |
| 32.5° | 736.6 | 722.2 | 717.7 | 780.8 | 1110.7 | 1934.8 | 4007.5 | 6937.7 | 7393.0 | 7591.3 |
| 35° | 664.5 | 641.9 | 650.9 | 723.1 | 1046.7 | 1916.8 | 4193.3 | 7553.5 | 8201.7 | 8323.4 |
| 37.5° | 661.8 | 635.6 | 647.3 | 701.4 | 1069.3 | 1949.2 | 4490.8 | 8541.6 | 9628.0 | 9888.5 |
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| 45° | 651.8 | 659.1 | 659.1 | 707.7 | 1010.7 | 2029.5 | 5038.9 | 10489.9 | 12358.9 | 12615.8 |
| 47.5° | 639.2 | 660.9 | 696.0 | 705.0 | 966.5 | 2004.2 | 5236.4 | 11048.0 | 12725.8 | 12967.4 |
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| 52.5° | 601.4 | 653.6 | 732.1 | 651.8 | 946.7 | 1932.1 | 5790.9 | 12065.9 | 13745.5 | 13931.2 |
| 55° | 570.7 | 637.4 | 698.7 | 616.7 | 916.0 | 1897.8 | 6285.8 | 12779.0 | 14464.1 | 14591.2 |
| 57.5° | 542.8 | 613.1 | 650.0 | 596.8 | 843.0 | 1905.0 | 6630.2 | 13360.5 | 15067.2 | 15178.1 |
| 60° | 517.5 | 610.4 | 580.6 | 576.1 | 768.1 | 1808.6 | 6742.0 | 13354.2 | 15291.7 | 15465.7 |
| 62.5° | 490.5 | 576.1 | 531.9 | 548.2 | 702.3 | 1709.4 | 6504.9 | 12781.7 | 15049.2 | 15353.9 |
| 65° | 455.3 | 494.1 | 491.4 | 528.3 | 704.1 | 1548.0 | 5961.3 | 11772.0 | 14444.2 | 14845.4 |
| 67.5° | 413.8 | 437.3 | 452.6 | 495.9 | 726.7 | 1422.7 | 5086.7 | 10557.5 | 13414.6 | 13891.6 |
| 70° | 371.5 | 394.9 | 412.0 | 453.5 | 747.4 | 1365.0 | 4049.0 | 8851.7 | 11737.7 | 12221.8 |
| 72.5° | 328.2 | 352.5 | 366.0 | 402.1 | 719.5 | 1241.5 | 2996.9 | 6887.2 | 9421.5 | 9675.8 |
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| 77.5° | 237.1 | 262.4 | 266.0 | 293.0 | 476.9 | 785.3 | 1326.2 | 4001.2 | 4886.6 | 5058.8 |
| 80° | 189.3 | 214.6 | 214.6 | 229.0 | 335.4 | 540.0 | 794.3 | 3018.5 | 3558.5 | 3626.2 |
| 82.5° | 136.1 | 163.2 | 161.4 | 162.3 | 231.7 | 334.5 | 459.8 | 2262.1 | 2571.3 | 2583.9 |
| 85° | 80.2 | 99.2 | 98.3 | 90.2 | 137.0 | 180.3 | 248.8 | 1404.7 | 1435.3 | 1438.9 |
| 87.5° | 15.3 | 23.4 | 20.7 | 9.0 | 37.9 | 53.2 | 72.1 | 260.6 | 103.7 | 101.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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