

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: P368326

Luminaire Tested: **PMM-SA4B-727-U-SLL**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4B-727-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: 13919 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

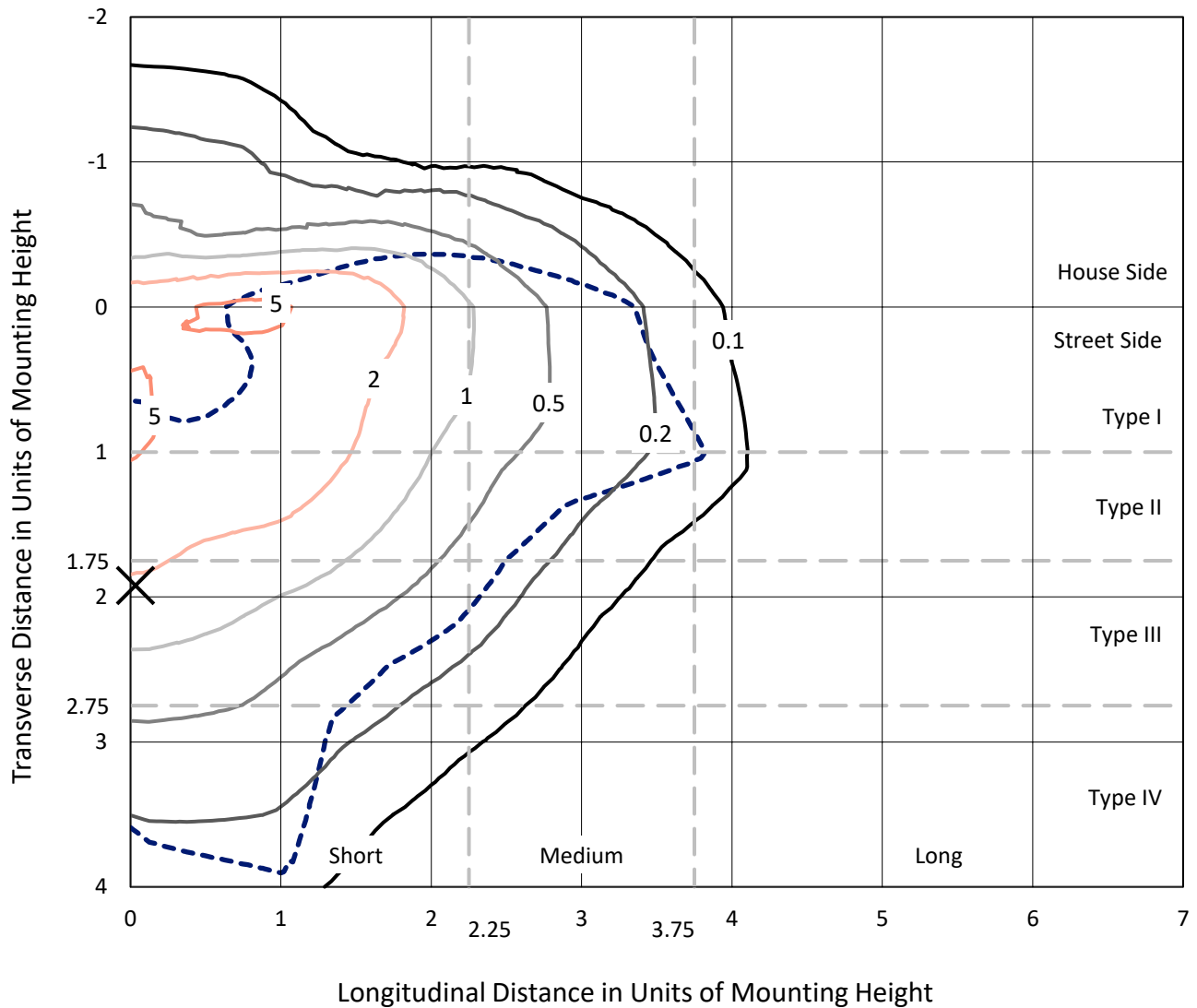
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

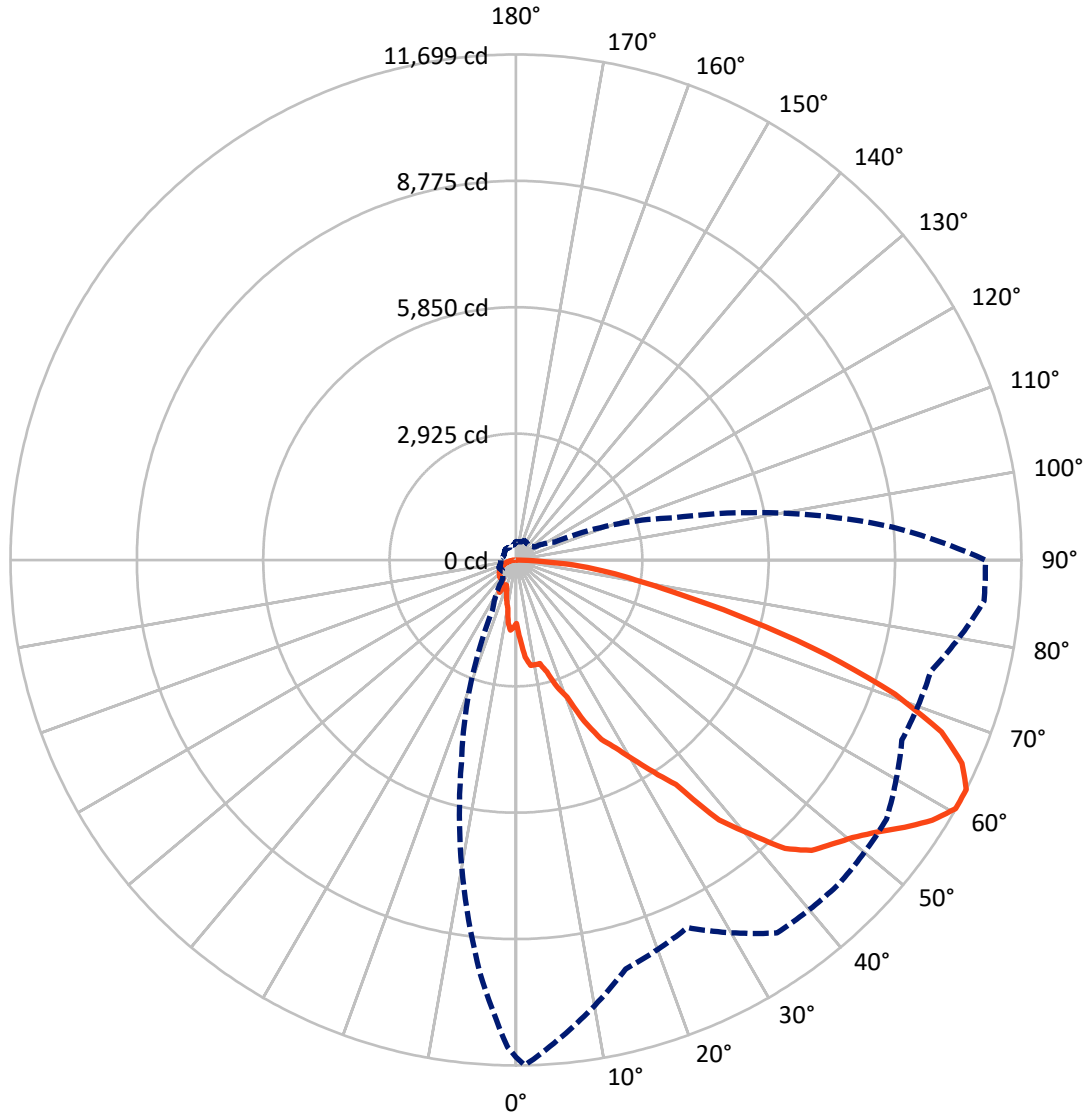
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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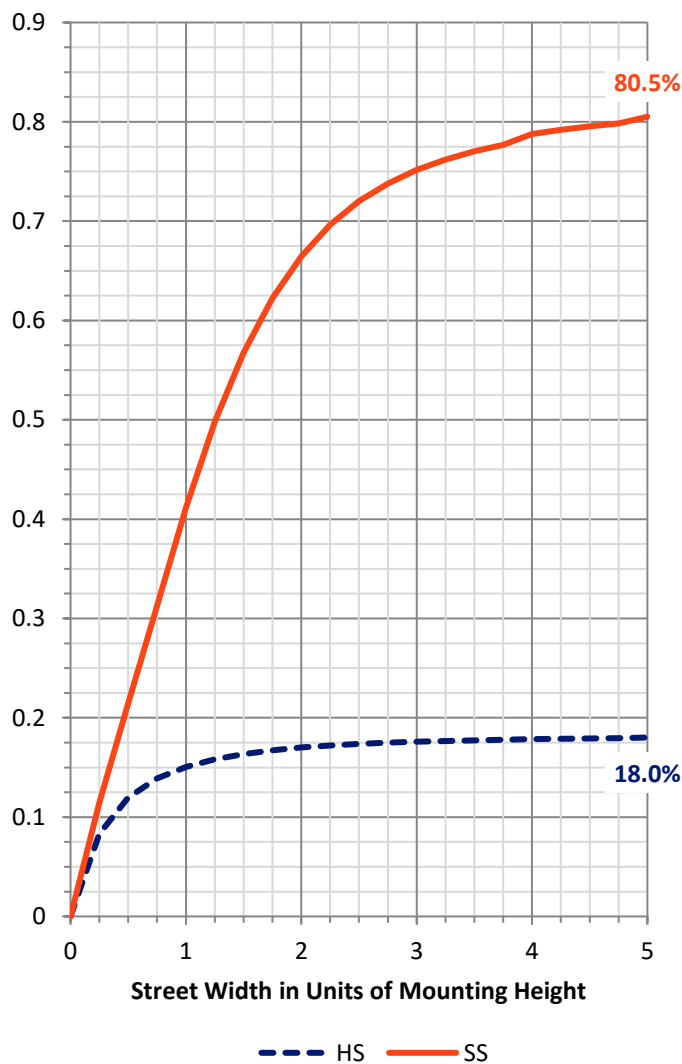
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2534.6 | 0.0 | 2534.6 |
| | % Fixture | 18.2 | 0.0 | 18.2 |
| Street Side | Lumens | 11384.4 | 0.0 | 11384.4 |
| | % Fixture | 81.8 | 0.0 | 81.8 |
| Total | Lumens | 13919.0 | 0.0 | 13919.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 168.3 | 1.2 |
| 10°-20° | 488.9 | 3.5 |
| 20°-30° | 863.2 | 6.2 |
| 30°-40° | 1344.5 | 9.7 |
| 40°-50° | 2213.9 | 15.9 |
| 50°-60° | 3159.9 | 22.7 |
| 60°-70° | 3350.7 | 24.1 |
| 70°-80° | 1850.8 | 13.3 |
| 80°-90° | 478.7 | 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° | 13919.0 | 100.0 |
| 0°-180° | 13919.0 | 100.0 |

Coefficient of Utilization

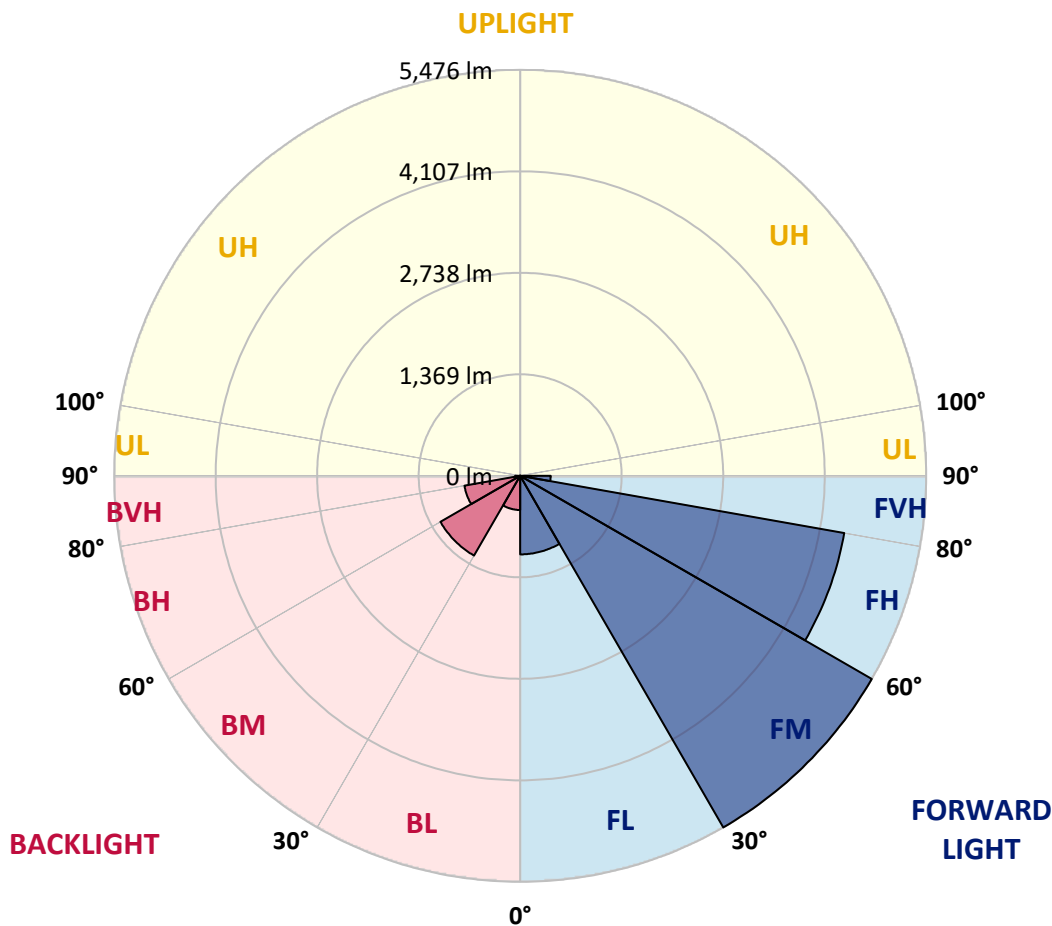


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 CATALOG NUMBER: PMM-SA4B-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1059.4 | 7.6 | | | |
| FM (30°-60°) | 5475.9 | 39.3 | | | |
| FH (60°-80°) | 4437.9 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 411.2 | 3.0 | | | G3/500 |
| BL (0°-30°) | 461.0 | 3.3 | B1/500 | | |
| BM (30°-60°) | 1242.5 | 8.9 | B2/2500 | | |
| BH (60°-80°) | 763.6 | 5.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 67.5 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type IV Short





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CATALOG NUMBER: PMM-SA4B-727-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|---------|---------|---------|--------|---------|---------|
| 0° | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 |
| 2.5° | 1804.8 | 1820.3 | 1788.6 | 1752.8 | 1604.9 | 1747.4 | 1704.8 | 1783.9 | 1758.2 | 1586.6 | 1900.7 |
| 5° | 2230.3 | 2258.7 | 2227.6 | 2335.0 | 2341.8 | 2369.5 | 2113.5 | 2272.9 | 2217.5 | 2203.3 | 2362.0 |
| 7.5° | 2435.7 | 2464.7 | 2543.7 | 2734.9 | 2884.2 | 2749.1 | 2599.8 | 2566.7 | 2523.5 | 2410.7 | 2506.6 |
| 10° | 2448.5 | 2464.7 | 2570.7 | 2976.0 | 3048.3 | 3144.2 | 3047.6 | 2820.0 | 2726.1 | 2480.9 | 2408.0 |
| 12.5° | 2410.0 | 2460.7 | 2597.8 | 3091.5 | 3306.3 | 3411.0 | 3434.6 | 3181.4 | 2951.0 | 2671.4 | 2634.2 |
| 15° | 2668.7 | 2686.9 | 2883.5 | 3173.9 | 3321.8 | 3410.3 | 3487.3 | 3331.3 | 3259.0 | 3037.5 | 2739.6 |
| 17.5° | 3039.5 | 3090.2 | 3250.9 | 3358.3 | 3458.3 | 3475.2 | 3411.7 | 3350.9 | 3236.1 | 3531.9 | 3215.1 |
| 20° | 3290.8 | 3388.7 | 3585.9 | 3606.2 | 3396.1 | 3433.3 | 3424.5 | 3428.6 | 3363.0 | 3910.2 | 3735.9 |
| 22.5° | 3955.4 | 4061.5 | 4088.5 | 3970.9 | 3575.1 | 3405.6 | 3439.4 | 3537.3 | 3795.3 | 4264.1 | 4461.3 |
| 25° | 4557.2 | 4598.4 | 4845.0 | 4542.4 | 3911.5 | 3542.0 | 3486.7 | 3739.9 | 4160.7 | 4859.8 | 5000.3 |
| 27.5° | 4871.3 | 4924.7 | 5088.8 | 4430.3 | 3953.4 | 3366.4 | 3236.7 | 3622.4 | 4051.3 | 4579.5 | 5196.2 |
| 30° | 5273.2 | 5358.3 | 5581.9 | 4542.4 | 4079.7 | 3481.2 | 3194.2 | 3563.0 | 4037.1 | 4763.2 | 5610.9 |
| 32.5° | 5687.3 | 5852.7 | 6018.9 | 4937.5 | 4062.1 | 3656.9 | 3466.4 | 3496.1 | 4165.5 | 5148.3 | 6040.5 |
| 35° | 6235.7 | 6381.6 | 6524.8 | 5165.8 | 4416.1 | 3803.4 | 3614.3 | 3929.1 | 4495.1 | 5594.7 | 6639.6 |
| 37.5° | 7408.3 | 7639.3 | 7261.7 | 5815.6 | 4801.1 | 4464.0 | 4122.9 | 4309.3 | 4843.6 | 5966.9 | 7618.4 |
| 40° | 8155.3 | 8328.9 | 7964.2 | 6258.0 | 5479.2 | 4909.1 | 4853.1 | 4868.6 | 5323.9 | 6285.7 | 8276.9 |
| 42.5° | 8897.7 | 9132.7 | 8552.5 | 6865.2 | 6299.2 | 5828.4 | 5539.3 | 5519.7 | 5861.5 | 6858.5 | 9026.0 |
| 45° | 9451.5 | 9590.0 | 8754.5 | 7377.2 | 7178.6 | 6829.4 | 6612.6 | 6268.8 | 6568.0 | 7255.0 | 9489.3 |
| 47.5° | 9714.9 | 9827.7 | 9079.3 | 7675.1 | 7748.7 | 7767.0 | 8158.0 | 7571.8 | 7185.4 | 7523.1 | 9732.5 |
| 50° | 10043.9 | 10097.2 | 9270.5 | 7937.2 | 8290.4 | 9091.5 | 9185.4 | 8191.8 | 7786.5 | 7815.6 | 9876.4 |
| 52.5° | 10437.0 | 10459.3 | 9549.5 | 8239.8 | 8838.2 | 9962.8 | 9817.6 | 9242.8 | 8358.6 | 8349.9 | 10147.2 |
| 55° | 10931.4 | 10917.9 | 9899.3 | 8647.1 | 9229.3 | 10480.9 | 10370.8 | 9952.0 | 8982.1 | 8792.3 | 10568.7 |
| 57.5° | 11371.1 | 11363.0 | 10363.4 | 9021.9 | 9558.2 | 10747.0 | 10779.4 | 10668.7 | 9406.3 | 9109.1 | 11025.3 |
| 60° | 11586.6 | 11689.9 | 10891.6 | 9431.9 | 9579.2 | 10867.3 | 10879.4 | 10703.1 | 9880.4 | 9515.7 | 11146.9 |
| 62.5° | 11502.8 | 11699.4 | 11150.9 | 9800.7 | 9386.7 | 10539.0 | 10589.6 | 10468.1 | 9858.8 | 9942.6 | 10875.4 |
| 65° | 11121.9 | 11348.8 | 10926.0 | 9997.3 | 9268.5 | 9989.2 | 10002.0 | 9694.7 | 9550.1 | 10225.6 | 10239.1 |
| 67.5° | 10407.3 | 10620.0 | 10210.0 | 9683.9 | 8459.3 | 8507.2 | 8793.6 | 8818.6 | 8607.9 | 10012.1 | 9345.5 |
| 70° | 9156.3 | 9306.3 | 9049.6 | 8909.8 | 7070.6 | 6789.6 | 7100.3 | 7233.4 | 7329.3 | 9241.5 | 8272.9 |
| 72.5° | 7248.9 | 7538.7 | 7579.2 | 7670.4 | 5692.7 | 5224.6 | 5454.9 | 5257.7 | 5882.5 | 7865.6 | 6759.2 |
| 75° | 5363.0 | 5607.6 | 5870.3 | 6378.9 | 4487.0 | 3911.5 | 3883.1 | 3782.5 | 4366.1 | 6325.6 | 5013.2 |
| 77.5° | 3789.9 | 3946.0 | 4147.9 | 5095.6 | 3386.0 | 3012.5 | 3030.1 | 2928.1 | 3153.0 | 4780.8 | 3463.0 |
| 80° | 2716.6 | 2798.4 | 2892.3 | 3357.0 | 2497.8 | 2599.1 | 2601.8 | 2505.2 | 2344.5 | 3246.9 | 2311.4 |
| 82.5° | 1935.8 | 1999.3 | 2106.7 | 2214.1 | 1862.2 | 2130.4 | 2128.3 | 2122.3 | 1858.8 | 2194.5 | 1446.1 |
| 85° | 1078.0 | 1163.1 | 1349.5 | 1734.5 | 1344.8 | 1523.1 | 1339.4 | 1475.2 | 1364.4 | 1461.0 | 732.2 |
| 87.5° | 75.6 | 67.5 | 301.9 | 1005.1 | 627.5 | 458.6 | 240.5 | 476.2 | 610.6 | 763.3 | 102.0 |
| 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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 CATALOG NUMBER: PMM-SA4B-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 |
| 2.5° | 1965.5 | 1989.2 | 1896.7 | 1757.5 | 1795.3 | 1754.1 | 1702.1 | 1621.1 | 1454.2 | 1557.6 | 1558.3 |
| 5° | 2360.7 | 2270.9 | 2198.6 | 2130.4 | 2015.5 | 1841.9 | 1819.0 | 1679.8 | 1601.5 | 1642.7 | 1636.6 |
| 7.5° | 2484.3 | 2356.6 | 2247.9 | 2004.0 | 1791.3 | 1521.8 | 1440.7 | 1358.3 | 1323.9 | 1423.8 | 1463.7 |
| 10° | 2348.5 | 2215.5 | 2108.7 | 1812.2 | 1667.7 | 1499.5 | 1276.6 | 1162.4 | 1094.9 | 1121.2 | 1136.8 |
| 12.5° | 2457.9 | 2322.2 | 1986.5 | 1821.0 | 1582.6 | 1479.9 | 1284.7 | 1117.2 | 1017.2 | 1041.5 | 1012.5 |
| 15° | 2563.3 | 2380.3 | 2044.6 | 1715.0 | 1521.8 | 1373.2 | 1215.1 | 1042.2 | 924.7 | 882.8 | 860.5 |
| 17.5° | 2948.3 | 2644.4 | 2037.8 | 1655.5 | 1434.0 | 1263.1 | 1072.6 | 883.5 | 805.1 | 761.9 | 724.8 |
| 20° | 3417.8 | 2994.3 | 2074.3 | 1594.1 | 1340.8 | 1125.3 | 917.9 | 742.3 | 687.6 | 659.2 | 649.1 |
| 22.5° | 3976.4 | 3442.7 | 2283.0 | 1585.3 | 1253.0 | 1024.7 | 832.8 | 723.4 | 661.9 | 630.9 | 618.0 |
| 25° | 4420.1 | 3906.8 | 2437.0 | 1644.7 | 1248.2 | 941.6 | 781.5 | 803.8 | 775.4 | 784.9 | 709.9 |
| 27.5° | 4851.1 | 4033.1 | 2350.6 | 1618.4 | 1122.6 | 794.3 | 769.3 | 815.9 | 840.3 | 847.7 | 845.0 |
| 30° | 5215.1 | 4566.7 | 2369.5 | 1469.8 | 948.3 | 647.1 | 589.0 | 612.0 | 678.8 | 784.9 | 805.1 |
| 32.5° | 5748.0 | 4822.0 | 2530.9 | 1379.9 | 847.7 | 578.9 | 514.0 | 505.2 | 520.8 | 559.3 | 592.4 |
| 35° | 6371.5 | 5409.6 | 2576.2 | 1356.3 | 778.1 | 548.5 | 503.2 | 482.9 | 491.0 | 520.1 | 526.8 |
| 37.5° | 7533.9 | 5837.9 | 2743.7 | 1327.3 | 752.4 | 530.2 | 495.1 | 487.7 | 505.2 | 528.9 | 542.4 |
| 40° | 8174.9 | 6607.9 | 2751.8 | 1302.3 | 719.4 | 522.8 | 500.5 | 497.1 | 507.9 | 540.4 | 548.5 |
| 42.5° | 9029.4 | 7046.9 | 2878.8 | 1273.2 | 707.9 | 532.9 | 511.3 | 510.0 | 519.4 | 538.3 | 553.2 |
| 45° | 9550.1 | 7340.7 | 2885.5 | 1256.3 | 705.2 | 577.5 | 525.5 | 520.8 | 518.7 | 530.2 | 543.7 |
| 47.5° | 9885.8 | 7764.3 | 2967.9 | 1237.4 | 721.4 | 589.0 | 542.4 | 522.1 | 515.4 | 520.1 | 530.2 |
| 50° | 10204.0 | 8102.7 | 3123.9 | 1234.7 | 738.3 | 577.5 | 572.1 | 521.4 | 507.9 | 505.9 | 513.3 |
| 52.5° | 10594.4 | 8659.2 | 3316.4 | 1260.4 | 734.2 | 560.6 | 594.4 | 518.7 | 494.4 | 489.7 | 497.1 |
| 55° | 11162.4 | 9255.6 | 3521.1 | 1238.8 | 692.3 | 528.2 | 572.8 | 516.7 | 480.2 | 471.5 | 478.2 |
| 57.5° | 11530.5 | 9597.4 | 3750.1 | 1220.5 | 628.8 | 503.9 | 553.2 | 518.1 | 481.6 | 462.0 | 466.1 |
| 60° | 11408.3 | 9413.7 | 3839.9 | 1109.1 | 568.7 | 485.0 | 506.6 | 507.3 | 469.4 | 451.2 | 454.6 |
| 62.5° | 10867.9 | 8748.4 | 3756.2 | 979.4 | 524.1 | 458.0 | 458.6 | 487.0 | 434.3 | 421.5 | 426.9 |
| 65° | 10112.8 | 7921.0 | 3417.1 | 895.0 | 503.2 | 429.6 | 418.8 | 427.6 | 387.0 | 377.6 | 388.4 |
| 67.5° | 9186.1 | 6901.0 | 2912.5 | 805.8 | 495.8 | 391.1 | 378.2 | 374.9 | 349.2 | 338.4 | 349.2 |
| 70° | 8023.6 | 5778.4 | 2328.3 | 743.0 | 467.4 | 349.2 | 339.1 | 335.7 | 314.1 | 306.0 | 315.4 |
| 72.5° | 6449.2 | 4512.0 | 1796.7 | 695.0 | 436.3 | 310.7 | 301.9 | 297.9 | 279.6 | 268.2 | 279.6 |
| 75° | 4587.0 | 3448.2 | 1334.7 | 621.4 | 392.4 | 271.5 | 261.4 | 256.0 | 239.1 | 228.3 | 238.4 |
| 77.5° | 3259.7 | 2588.3 | 932.1 | 514.0 | 323.5 | 229.7 | 223.6 | 214.8 | 199.9 | 187.1 | 197.2 |
| 80° | 2410.0 | 1849.4 | 601.1 | 396.5 | 247.2 | 183.7 | 180.3 | 174.3 | 160.1 | 144.5 | 152.0 |
| 82.5° | 1586.6 | 1333.3 | 344.5 | 268.8 | 179.7 | 132.4 | 135.1 | 131.0 | 117.5 | 101.3 | 105.4 |
| 85° | 710.6 | 789.6 | 183.0 | 147.9 | 116.9 | 79.7 | 87.1 | 84.4 | 74.3 | 58.8 | 60.1 |
| 87.5° | 68.2 | 133.1 | 56.1 | 54.0 | 43.2 | 25.0 | 31.1 | 26.3 | 22.3 | 14.2 | 10.8 |
| 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-SA4B-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 |
| 2.5° | 1581.9 | 1486.7 | 1391.4 | 1449.5 | 1450.9 | 1466.4 | 1468.4 | 1411.0 | 1456.9 | 1492.1 | 1528.5 |
| 5° | 1606.9 | 1544.7 | 1548.1 | 1492.1 | 1461.7 | 1500.8 | 1492.7 | 1477.2 | 1504.9 | 1543.4 | 1590.0 |
| 7.5° | 1425.9 | 1385.3 | 1378.6 | 1324.5 | 1193.5 | 1164.5 | 1188.8 | 1198.9 | 1236.1 | 1295.5 | 1345.5 |
| 10° | 1113.1 | 1193.5 | 1103.0 | 1082.1 | 1047.6 | 980.1 | 940.9 | 936.2 | 1015.2 | 1063.2 | 1105.0 |
| 12.5° | 1003.0 | 982.8 | 972.0 | 914.6 | 914.6 | 843.0 | 820.0 | 840.9 | 962.5 | 997.0 | 1051.0 |
| 15° | 854.4 | 839.6 | 789.6 | 761.2 | 747.7 | 718.7 | 743.0 | 763.3 | 876.7 | 879.4 | 936.2 |
| 17.5° | 709.2 | 700.4 | 653.2 | 647.8 | 634.2 | 621.4 | 643.7 | 692.3 | 753.8 | 743.0 | 769.3 |
| 20° | 634.2 | 603.8 | 560.6 | 576.2 | 562.0 | 551.8 | 542.4 | 611.3 | 654.5 | 668.7 | 684.2 |
| 22.5° | 615.3 | 559.9 | 534.3 | 520.1 | 520.8 | 504.6 | 506.6 | 564.0 | 629.5 | 638.3 | 628.8 |
| 25° | 703.1 | 604.5 | 521.4 | 480.2 | 464.7 | 459.3 | 474.8 | 525.5 | 604.5 | 623.4 | 630.9 |
| 27.5° | 822.7 | 656.5 | 537.0 | 466.7 | 435.7 | 438.4 | 460.7 | 495.8 | 589.0 | 622.8 | 631.5 |
| 30° | 789.6 | 617.4 | 537.7 | 456.6 | 418.1 | 432.3 | 440.4 | 474.2 | 576.8 | 627.5 | 671.4 |
| 32.5° | 609.3 | 555.2 | 541.0 | 464.7 | 449.2 | 426.9 | 438.4 | 470.8 | 541.0 | 572.8 | 574.8 |
| 35° | 516.0 | 474.8 | 465.4 | 446.5 | 424.9 | 415.4 | 428.2 | 456.6 | 502.5 | 522.1 | 519.4 |
| 37.5° | 512.0 | 466.7 | 429.6 | 421.5 | 412.7 | 410.0 | 417.4 | 443.8 | 490.4 | 524.8 | 517.4 |
| 40° | 518.7 | 462.7 | 424.9 | 410.7 | 414.0 | 401.9 | 409.3 | 441.7 | 492.4 | 524.8 | 518.1 |
| 42.5° | 510.6 | 458.0 | 418.8 | 408.0 | 411.3 | 394.5 | 403.2 | 437.0 | 487.0 | 525.5 | 512.7 |
| 45° | 494.4 | 447.1 | 415.4 | 397.2 | 412.7 | 387.7 | 398.5 | 424.9 | 470.8 | 512.7 | 497.8 |
| 47.5° | 478.2 | 434.3 | 401.2 | 389.7 | 405.3 | 381.0 | 385.7 | 408.6 | 454.6 | 495.8 | 482.9 |
| 50° | 460.7 | 418.1 | 389.7 | 386.4 | 397.2 | 379.6 | 372.2 | 391.1 | 435.0 | 476.2 | 465.4 |
| 52.5° | 441.7 | 404.6 | 381.6 | 380.3 | 390.4 | 370.8 | 360.0 | 374.9 | 414.0 | 455.3 | 446.5 |
| 55° | 423.5 | 389.7 | 371.5 | 374.9 | 386.4 | 363.4 | 349.9 | 359.3 | 391.8 | 432.3 | 420.1 |
| 57.5° | 405.3 | 372.8 | 358.0 | 367.4 | 376.2 | 353.9 | 337.0 | 342.5 | 368.8 | 408.6 | 394.5 |
| 60° | 389.1 | 358.0 | 343.1 | 354.6 | 362.7 | 339.7 | 320.2 | 323.5 | 347.2 | 383.0 | 370.1 |
| 62.5° | 368.1 | 341.8 | 322.2 | 337.0 | 343.1 | 320.8 | 299.9 | 304.0 | 322.9 | 356.6 | 347.2 |
| 65° | 338.4 | 321.5 | 303.3 | 313.4 | 321.5 | 298.5 | 279.0 | 283.7 | 297.9 | 329.6 | 322.9 |
| 67.5° | 312.7 | 296.5 | 284.4 | 292.5 | 293.8 | 276.3 | 258.7 | 261.4 | 272.9 | 302.6 | 295.2 |
| 70° | 284.4 | 268.8 | 259.4 | 265.5 | 264.8 | 249.9 | 236.4 | 237.1 | 246.5 | 273.6 | 263.4 |
| 72.5° | 253.3 | 238.4 | 233.7 | 237.1 | 234.4 | 220.9 | 208.0 | 212.8 | 218.8 | 239.1 | 231.0 |
| 75° | 220.2 | 206.7 | 204.0 | 207.4 | 203.3 | 190.5 | 179.0 | 183.7 | 189.1 | 206.0 | 195.9 |
| 77.5° | 185.7 | 173.6 | 174.3 | 174.9 | 169.5 | 160.8 | 149.3 | 154.0 | 157.4 | 168.9 | 158.7 |
| 80° | 147.9 | 138.5 | 141.2 | 141.2 | 135.1 | 129.0 | 118.2 | 119.6 | 121.6 | 125.6 | 118.2 |
| 82.5° | 108.1 | 108.1 | 108.1 | 108.7 | 95.9 | 97.9 | 88.5 | 87.8 | 85.8 | 85.1 | 80.4 |
| 85° | 64.2 | 66.9 | 68.2 | 70.2 | 52.0 | 60.8 | 52.7 | 50.7 | 46.6 | 42.6 | 41.2 |
| 87.5° | 14.2 | 18.2 | 18.2 | 17.6 | 0.0 | 6.8 | 3.4 | 5.4 | 1.4 | 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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| 0° | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 | 1467.7 |
| 2.5° | 1486.7 | 1446.1 | 1521.8 | 1589.3 | 1578.5 | 1617.7 | 1526.5 | 1661.6 | 1804.8 | 1804.8 |
| 5° | 1577.8 | 1543.4 | 1563.0 | 1602.2 | 1631.9 | 1768.3 | 1881.8 | 1994.6 | 2227.6 | 2230.3 |
| 7.5° | 1330.6 | 1404.9 | 1422.5 | 1411.0 | 1538.7 | 1714.3 | 1901.4 | 2222.9 | 2420.1 | 2435.7 |
| 10° | 1244.2 | 1277.9 | 1331.3 | 1361.0 | 1413.0 | 1585.9 | 1818.3 | 2199.9 | 2409.3 | 2448.5 |
| 12.5° | 1127.3 | 1252.3 | 1333.3 | 1499.5 | 1540.7 | 1575.1 | 1944.6 | 2274.9 | 2419.4 | 2410.0 |
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| 20° | 655.9 | 656.5 | 811.9 | 1089.5 | 1371.8 | 1608.9 | 2274.9 | 3059.1 | 3252.9 | 3290.8 |
| 22.5° | 620.1 | 589.0 | 670.7 | 896.3 | 1240.8 | 1682.5 | 2416.7 | 3455.6 | 3860.2 | 3955.4 |
| 25° | 600.5 | 562.6 | 614.0 | 790.9 | 1146.9 | 1721.0 | 2702.5 | 4000.7 | 4520.1 | 4557.2 |
| 27.5° | 608.6 | 626.1 | 642.3 | 705.2 | 1028.0 | 1648.8 | 2636.3 | 4244.5 | 4801.1 | 4871.3 |
| 30° | 663.3 | 691.7 | 654.5 | 676.1 | 930.1 | 1544.1 | 2754.5 | 4640.3 | 5155.0 | 5273.2 |
| 32.5° | 551.8 | 541.0 | 537.7 | 584.9 | 832.1 | 1449.5 | 3002.4 | 5197.6 | 5538.7 | 5687.3 |
| 35° | 497.8 | 480.9 | 487.7 | 541.7 | 784.2 | 1436.0 | 3141.5 | 5658.9 | 6144.5 | 6235.7 |
| 37.5° | 495.8 | 476.2 | 485.0 | 525.5 | 801.1 | 1460.3 | 3364.4 | 6399.2 | 7213.1 | 7408.3 |
| 40° | 491.0 | 480.2 | 485.0 | 515.4 | 783.5 | 1473.8 | 3492.7 | 7021.3 | 7957.4 | 8155.3 |
| 42.5° | 490.4 | 485.0 | 489.7 | 523.5 | 765.3 | 1479.9 | 3670.4 | 7583.2 | 8741.6 | 8897.7 |
| 45° | 488.3 | 493.8 | 493.8 | 530.2 | 757.2 | 1520.4 | 3775.1 | 7858.8 | 9259.0 | 9451.5 |
| 47.5° | 478.9 | 495.1 | 521.4 | 528.2 | 724.1 | 1501.5 | 3923.0 | 8276.9 | 9533.9 | 9714.9 |
| 50° | 466.7 | 493.1 | 556.6 | 514.7 | 718.7 | 1455.6 | 4095.9 | 8608.6 | 9886.5 | 10043.9 |
| 52.5° | 450.5 | 489.7 | 548.5 | 488.3 | 709.2 | 1447.5 | 4338.4 | 9039.5 | 10297.9 | 10437.0 |
| 55° | 427.6 | 477.5 | 523.5 | 462.0 | 686.3 | 1421.8 | 4709.2 | 9573.8 | 10836.2 | 10931.4 |
| 57.5° | 406.6 | 459.3 | 487.0 | 447.1 | 631.5 | 1427.2 | 4967.2 | 10009.4 | 11288.1 | 11371.1 |
| 60° | 387.7 | 457.3 | 435.0 | 431.6 | 575.5 | 1354.9 | 5051.0 | 10004.7 | 11456.2 | 11586.6 |
| 62.5° | 367.4 | 431.6 | 398.5 | 410.7 | 526.2 | 1280.6 | 4873.3 | 9575.8 | 11274.5 | 11502.8 |
| 65° | 341.1 | 370.1 | 368.1 | 395.8 | 527.5 | 1159.7 | 4466.1 | 8819.3 | 10821.3 | 11121.9 |
| 67.5° | 310.0 | 327.6 | 339.1 | 371.5 | 544.4 | 1065.9 | 3810.9 | 7909.5 | 10050.0 | 10407.3 |
| 70° | 278.3 | 295.8 | 308.7 | 339.7 | 559.9 | 1022.6 | 3033.4 | 6631.5 | 8793.6 | 9156.3 |
| 72.5° | 245.9 | 264.1 | 274.2 | 301.2 | 539.0 | 930.1 | 2245.2 | 5159.7 | 7058.4 | 7248.9 |
| 75° | 212.1 | 229.7 | 237.8 | 262.7 | 468.1 | 769.3 | 1550.1 | 3908.1 | 5169.9 | 5363.0 |
| 77.5° | 177.6 | 196.6 | 199.3 | 219.5 | 357.3 | 588.3 | 993.6 | 2997.6 | 3660.9 | 3789.9 |
| 80° | 141.8 | 160.8 | 160.8 | 171.6 | 251.3 | 404.6 | 595.1 | 2261.4 | 2666.0 | 2716.6 |
| 82.5° | 102.0 | 122.3 | 120.9 | 121.6 | 173.6 | 250.6 | 344.5 | 1694.7 | 1926.4 | 1935.8 |
| 85° | 60.1 | 74.3 | 73.6 | 67.5 | 102.7 | 135.1 | 186.4 | 1052.3 | 1075.3 | 1078.0 |
| 87.5° | 11.5 | 17.6 | 15.5 | 6.8 | 28.4 | 39.9 | 54.0 | 195.2 | 77.7 | 75.6 |
| 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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