

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: P368253

Luminaire Tested: **PMM-SA4A-750-U-SL2-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-17)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4A-750-U-SL2-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12707 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

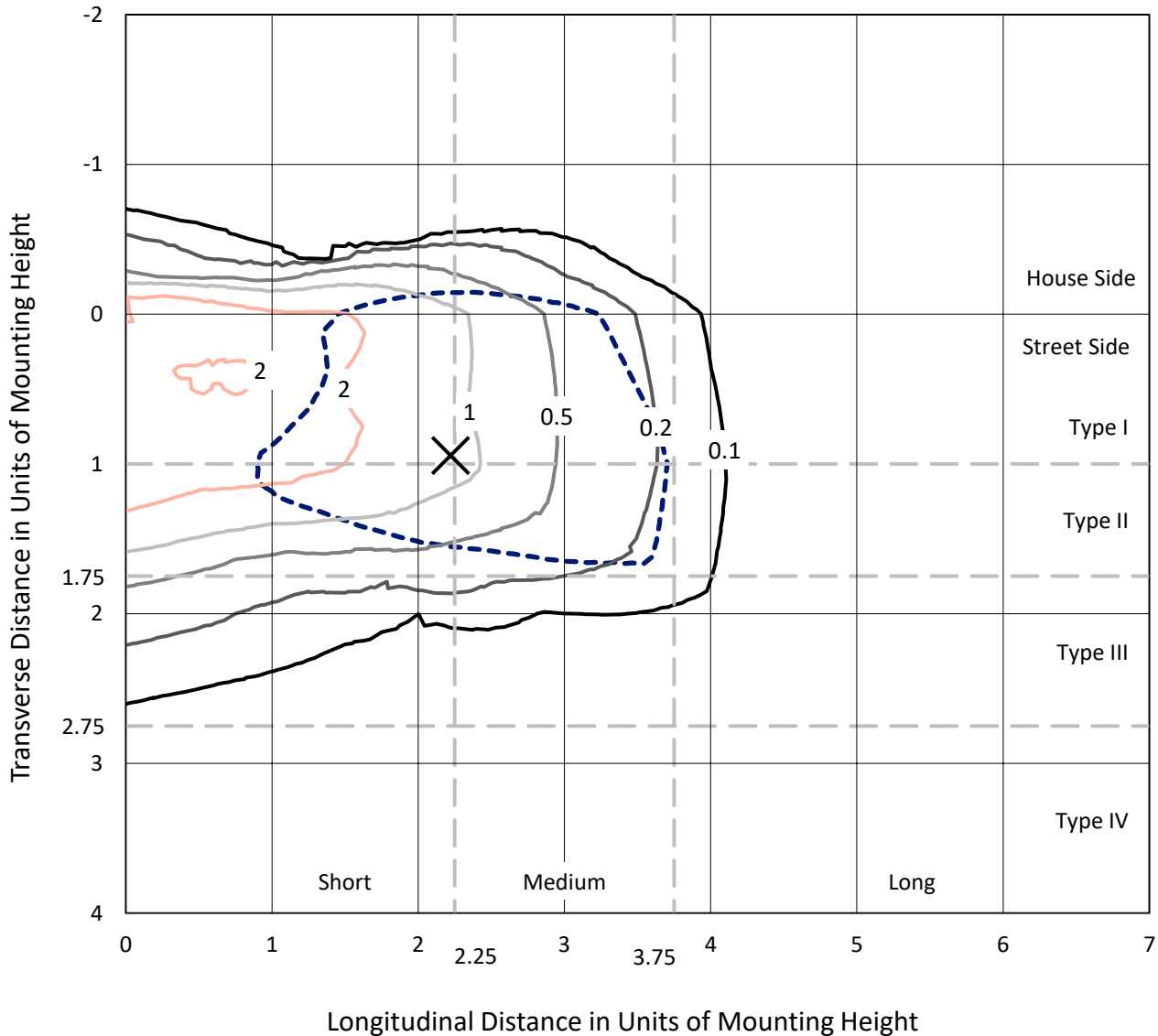
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

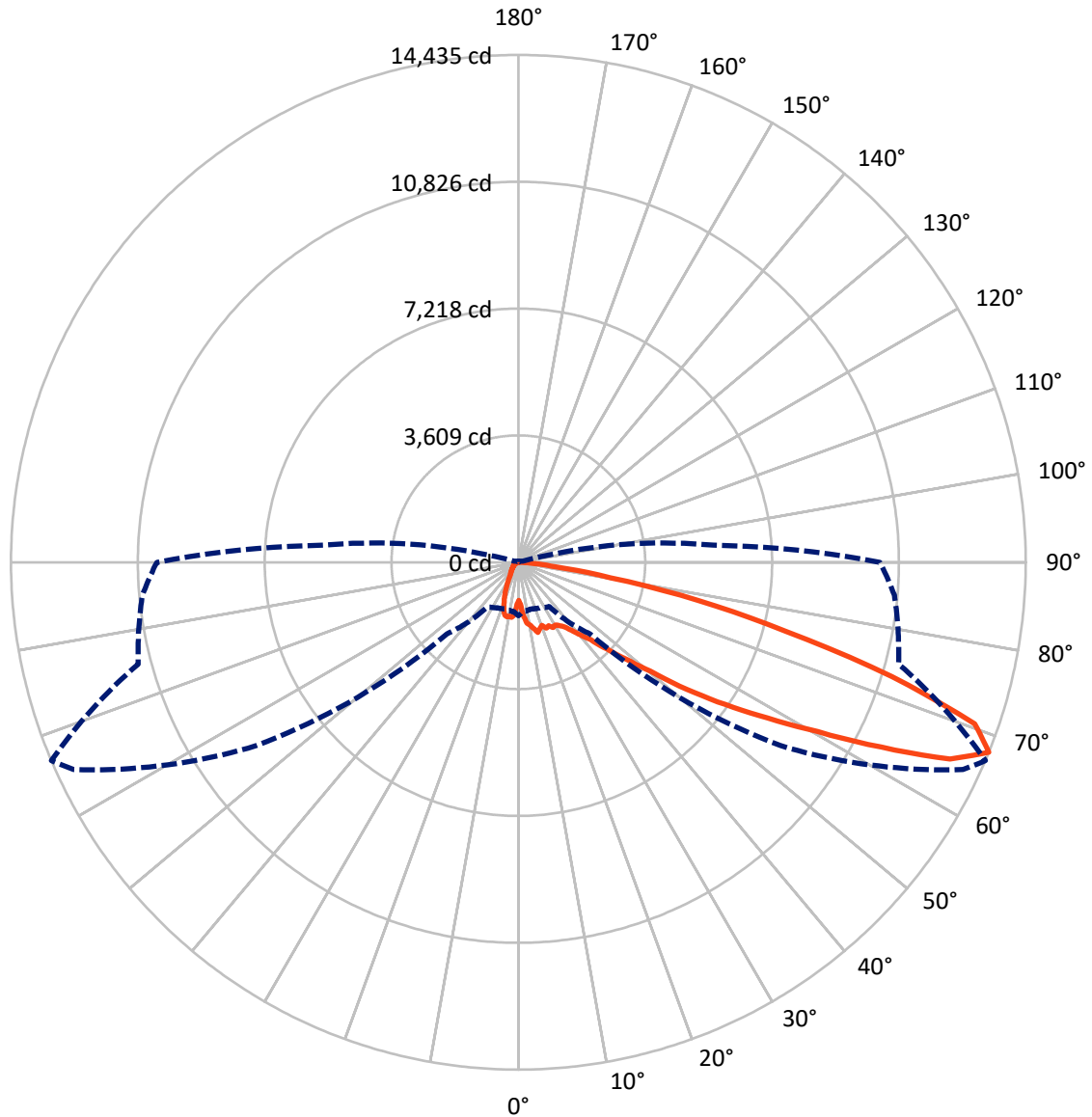
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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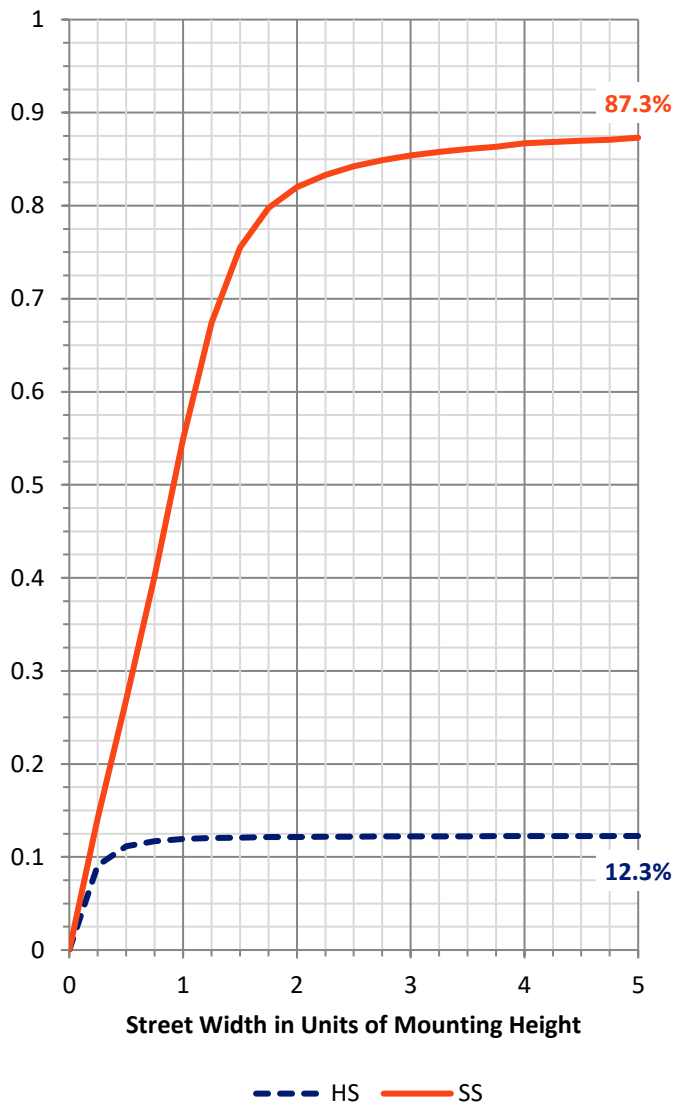
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1571.5 | 0.0 | 1571.5 |
| | % Fixture | 12.4 | 0.0 | 12.4 |
| Street Side | Lumens | 11135.5 | 0.0 | 11135.5 |
| | % Fixture | 87.6 | 0.0 | 87.6 |
| Total | Lumens | 12707.0 | 0.0 | 12707.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 135.8 | 1.1 |
| 10°-20° | 402.0 | 3.2 |
| 20°-30° | 630.0 | 5.0 |
| 30°-40° | 1015.7 | 8.0 |
| 40°-50° | 1866.5 | 14.7 |
| 50°-60° | 3152.2 | 24.8 |
| 60°-70° | 3484.9 | 27.4 |
| 70°-80° | 1824.0 | 14.4 |
| 80°-90° | 195.9 | 1.5 |
| 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° | 12707.0 | 100.0 |
| 0°-180° | 12707.0 | 100.0 |

Coefficient of Utilization



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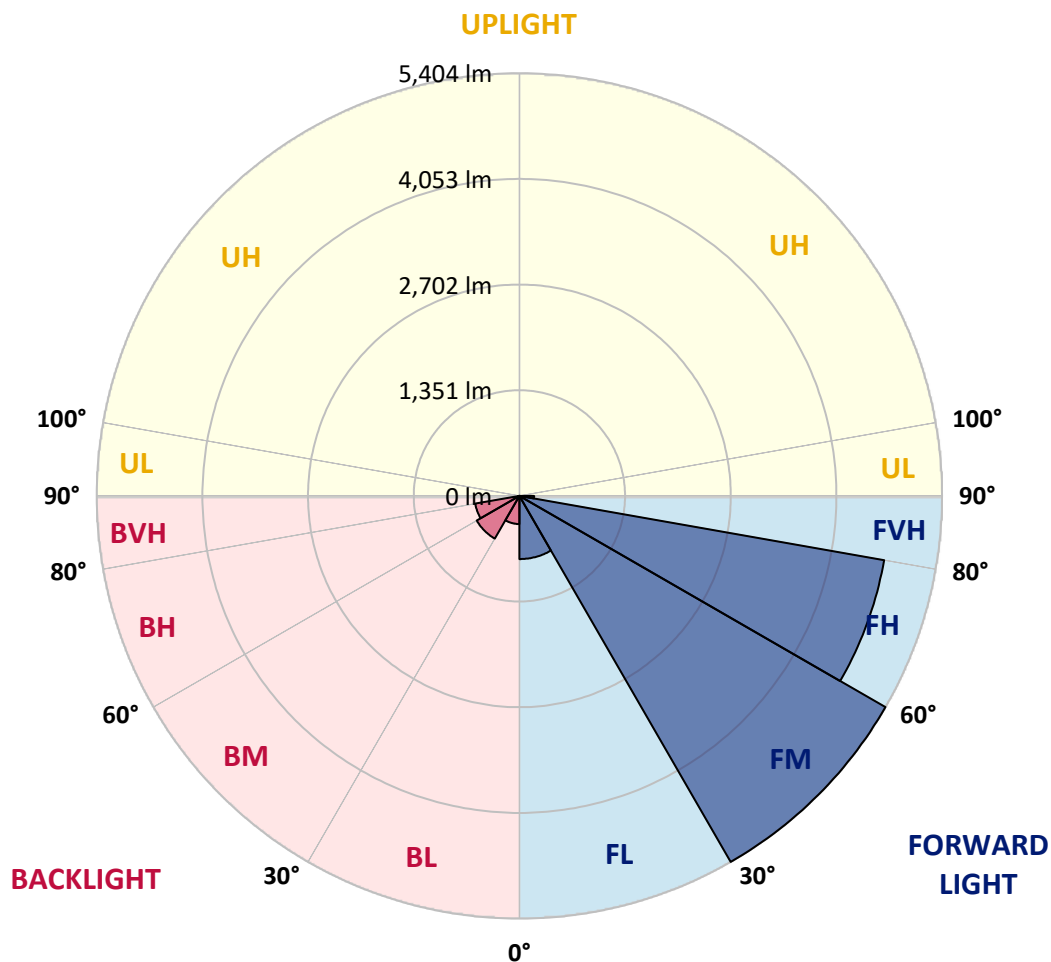
CATALOG NUMBER: PMM-SA4A-750-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 808.0 | 6.4 | | | |
| FM (30°-60°) | 5404.3 | 42.5 | | | |
| FH (60°-80°) | 4735.7 | 37.3 | | | G2/5000 |
| FVH (80°-90°) | 187.5 | 1.5 | | | G2/225 |
| BL (0°-30°) | 359.8 | 2.8 | B1/500 | | |
| BM (30°-60°) | 630.1 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 573.2 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.3 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 |
| 2.5° | 1277.6 | 1234.4 | 1160.9 | 1182.2 | 1224.7 | 1260.2 | 1243.4 | 1210.6 | 1211.2 | 1177.7 | 1298.2 |
| 5° | 1486.4 | 1428.4 | 1385.9 | 1400.7 | 1398.8 | 1397.5 | 1476.8 | 1507.1 | 1520.0 | 1575.4 | 1657.3 |
| 7.5° | 1546.4 | 1525.8 | 1481.3 | 1494.8 | 1450.3 | 1453.6 | 1592.8 | 1724.3 | 1744.9 | 1779.1 | 1924.8 |
| 10° | 1523.2 | 1483.2 | 1499.3 | 1499.3 | 1500.0 | 1572.2 | 1665.6 | 1791.3 | 1816.5 | 1948.0 | 1963.4 |
| 12.5° | 1498.0 | 1500.0 | 1563.8 | 1552.2 | 1639.9 | 1769.4 | 1801.0 | 1942.2 | 1929.9 | 2044.0 | 2213.5 |
| 15° | 1591.5 | 1640.5 | 1599.2 | 1615.4 | 1623.7 | 1775.9 | 1826.8 | 2014.4 | 2068.5 | 2212.9 | 2323.1 |
| 17.5° | 1752.0 | 1758.5 | 1672.7 | 1649.5 | 1710.1 | 1753.3 | 1855.8 | 1946.0 | 1982.1 | 2361.2 | 2517.2 |
| 20° | 1781.0 | 1822.3 | 1735.3 | 1601.2 | 1729.5 | 1788.8 | 1860.3 | 1903.5 | 1919.0 | 2406.9 | 2626.7 |
| 22.5° | 1955.7 | 1909.9 | 1770.7 | 1668.9 | 1705.6 | 1770.1 | 1814.5 | 1944.8 | 2037.6 | 2320.6 | 2731.8 |
| 25° | 2045.3 | 2033.1 | 1900.3 | 1813.3 | 1775.9 | 1770.7 | 1872.6 | 1971.2 | 2000.8 | 2410.2 | 2757.6 |
| 27.5° | 2260.0 | 2232.2 | 1975.0 | 1964.1 | 1841.0 | 1732.7 | 1874.5 | 2051.8 | 2107.2 | 2325.7 | 2854.3 |
| 30° | 2552.0 | 2541.6 | 2199.4 | 2192.3 | 1996.3 | 1801.7 | 1978.9 | 2101.4 | 2067.9 | 2368.9 | 2918.7 |
| 32.5° | 2845.9 | 2929.7 | 2579.7 | 2379.9 | 2232.9 | 2055.0 | 1949.3 | 2085.9 | 2145.9 | 2474.0 | 3037.3 |
| 35° | 3201.1 | 3261.7 | 2905.2 | 2760.2 | 2433.4 | 2173.6 | 2145.9 | 2233.5 | 2259.3 | 2599.0 | 3172.1 |
| 37.5° | 3822.5 | 3730.9 | 3427.3 | 3180.4 | 3009.0 | 2597.1 | 2460.4 | 2390.8 | 2450.8 | 2768.5 | 3447.3 |
| 40° | 4281.4 | 4223.4 | 3849.5 | 3701.9 | 3307.4 | 3066.4 | 2709.2 | 2644.1 | 2711.2 | 2942.6 | 3638.8 |
| 42.5° | 4835.1 | 4714.6 | 4362.6 | 4262.7 | 3856.6 | 3391.9 | 3029.6 | 3052.2 | 3010.3 | 3286.2 | 3974.6 |
| 45° | 5336.0 | 5064.0 | 4868.0 | 4890.6 | 4674.0 | 4046.1 | 3564.0 | 3553.0 | 3518.2 | 3783.8 | 4327.8 |
| 47.5° | 5673.1 | 5435.2 | 5244.4 | 5181.9 | 5156.1 | 5196.7 | 4336.2 | 4141.5 | 4115.8 | 4306.6 | 4884.1 |
| 50° | 5854.2 | 5593.8 | 5357.9 | 5370.8 | 5894.2 | 6288.1 | 5132.9 | 4856.4 | 4866.1 | 5065.3 | 5644.7 |
| 52.5° | 5732.4 | 5437.8 | 5189.0 | 5430.7 | 6466.6 | 7015.8 | 6451.8 | 5790.4 | 6014.7 | 5963.8 | 6665.1 |
| 55° | 5169.7 | 4913.8 | 4737.2 | 5169.7 | 6529.1 | 7799.0 | 8075.5 | 7196.3 | 7146.0 | 7030.0 | 7705.5 |
| 57.5° | 4222.8 | 4002.3 | 3893.4 | 4349.7 | 5845.2 | 8430.1 | 9706.4 | 8785.2 | 8356.6 | 7870.5 | 8569.3 |
| 60° | 3146.3 | 2983.8 | 2870.4 | 3111.5 | 4605.7 | 7817.0 | 10774.5 | 10282.6 | 9786.3 | 8680.8 | 9345.4 |
| 62.5° | 2330.2 | 2198.1 | 2077.5 | 2099.5 | 3171.4 | 6723.2 | 11184.4 | 11869.0 | 11584.1 | 9536.2 | 10077.6 |
| 65° | 1859.7 | 1739.1 | 1654.7 | 1606.3 | 1964.1 | 5058.2 | 10613.9 | 13169.1 | 13497.9 | 10341.9 | 10606.2 |
| 67.5° | 1518.7 | 1416.8 | 1374.9 | 1430.4 | 1540.6 | 2883.3 | 9090.1 | 13958.1 | 14435.1 | 11196.7 | 10736.4 |
| 70° | 1235.7 | 1151.9 | 1147.4 | 1296.9 | 1418.8 | 1757.8 | 6686.4 | 13413.4 | 13772.5 | 11342.3 | 9955.8 |
| 72.5° | 861.2 | 824.4 | 883.1 | 1095.2 | 1405.9 | 1463.9 | 3839.9 | 11100.0 | 11112.9 | 10017.7 | 8189.0 |
| 75° | 487.3 | 481.5 | 574.3 | 873.4 | 1369.1 | 1449.1 | 2140.7 | 7844.1 | 7849.9 | 7576.6 | 5673.1 |
| 77.5° | 268.2 | 250.7 | 334.5 | 590.5 | 1175.7 | 1415.5 | 1380.7 | 5356.0 | 5218.7 | 4216.3 | 2591.3 |
| 80° | 123.8 | 116.7 | 181.1 | 378.4 | 859.9 | 1338.8 | 1106.8 | 2943.9 | 2654.5 | 1373.6 | 632.4 |
| 82.5° | 50.9 | 48.3 | 83.2 | 243.0 | 543.4 | 1078.4 | 932.7 | 1306.0 | 1048.1 | 261.1 | 195.3 |
| 85° | 9.0 | 9.7 | 34.2 | 147.0 | 304.3 | 497.0 | 756.1 | 620.1 | 455.7 | 72.2 | 107.0 |
| 87.5° | 0.0 | 0.0 | 7.1 | 35.5 | 73.5 | 136.0 | 306.8 | 173.4 | 119.3 | 21.3 | 31.6 |
| 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-SA4A-750-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 | 1082.3 |
| 2.5° | 1322.1 | 1311.1 | 1200.2 | 1205.4 | 1213.1 | 1206.0 | 1204.8 | 1173.8 | 1145.5 | 1238.9 | 1237.6 |
| 5° | 1672.1 | 1594.1 | 1517.4 | 1487.7 | 1423.9 | 1340.1 | 1340.8 | 1314.3 | 1287.3 | 1325.3 | 1325.3 |
| 7.5° | 1921.5 | 1813.9 | 1716.6 | 1543.2 | 1374.3 | 1221.5 | 1208.0 | 1171.9 | 1130.6 | 1180.3 | 1189.9 |
| 10° | 1979.6 | 1886.1 | 1760.4 | 1505.8 | 1345.9 | 1197.0 | 1033.3 | 898.6 | 836.0 | 807.0 | 801.9 |
| 12.5° | 2158.1 | 2088.5 | 1807.5 | 1525.8 | 1295.6 | 1043.6 | 775.5 | 615.6 | 506.7 | 498.3 | 486.7 |
| 15° | 2277.4 | 2228.4 | 1853.9 | 1476.1 | 1082.9 | 750.3 | 487.3 | 373.9 | 330.0 | 326.2 | 320.4 |
| 17.5° | 2462.4 | 2377.3 | 1809.4 | 1318.2 | 847.0 | 495.1 | 327.5 | 295.2 | 300.4 | 312.0 | 303.0 |
| 20° | 2537.8 | 2371.5 | 1712.7 | 1089.4 | 595.0 | 332.0 | 284.3 | 266.9 | 280.4 | 291.4 | 286.2 |
| 22.5° | 2615.1 | 2388.2 | 1627.0 | 897.9 | 388.7 | 274.6 | 253.3 | 244.3 | 245.6 | 256.5 | 257.2 |
| 25° | 2614.5 | 2434.6 | 1527.7 | 699.4 | 289.4 | 244.3 | 228.8 | 217.2 | 212.7 | 220.5 | 218.5 |
| 27.5° | 2741.5 | 2381.1 | 1346.6 | 518.9 | 254.6 | 218.5 | 203.7 | 189.5 | 173.4 | 181.1 | 181.1 |
| 30° | 2742.1 | 2468.2 | 1220.2 | 372.6 | 233.3 | 194.7 | 181.8 | 159.9 | 141.2 | 147.6 | 148.3 |
| 32.5° | 2815.0 | 2392.7 | 1103.6 | 284.9 | 216.6 | 180.5 | 152.1 | 132.1 | 121.2 | 125.1 | 125.1 |
| 35° | 2898.1 | 2457.2 | 924.4 | 251.4 | 199.8 | 160.5 | 130.2 | 114.1 | 105.7 | 108.9 | 108.9 |
| 37.5° | 3172.7 | 2443.7 | 799.9 | 234.0 | 188.9 | 145.0 | 118.6 | 100.6 | 96.7 | 98.6 | 101.2 |
| 40° | 3272.0 | 2539.7 | 631.1 | 223.7 | 170.8 | 130.9 | 104.4 | 90.9 | 85.7 | 87.0 | 87.7 |
| 42.5° | 3524.7 | 2561.0 | 504.1 | 215.3 | 154.7 | 113.4 | 92.8 | 83.2 | 76.7 | 76.7 | 78.6 |
| 45° | 3803.8 | 2614.5 | 400.9 | 208.2 | 141.2 | 101.8 | 83.8 | 76.1 | 66.4 | 65.1 | 67.7 |
| 47.5° | 4207.9 | 2819.5 | 326.8 | 194.0 | 125.1 | 94.8 | 77.4 | 65.7 | 58.0 | 55.4 | 58.0 |
| 50° | 4884.1 | 3167.6 | 288.8 | 176.6 | 113.4 | 89.0 | 68.3 | 56.1 | 50.3 | 47.1 | 49.0 |
| 52.5° | 5838.1 | 3769.0 | 268.8 | 160.5 | 103.1 | 79.9 | 61.2 | 49.0 | 43.2 | 40.6 | 41.9 |
| 55° | 6897.8 | 4458.7 | 259.1 | 144.4 | 94.1 | 70.3 | 53.5 | 43.2 | 38.0 | 34.8 | 35.5 |
| 57.5° | 7877.6 | 5107.1 | 249.5 | 128.9 | 85.1 | 62.5 | 47.1 | 38.0 | 32.9 | 29.7 | 30.3 |
| 60° | 8843.2 | 5624.8 | 226.3 | 110.9 | 76.7 | 56.1 | 41.3 | 32.9 | 29.7 | 25.8 | 25.8 |
| 62.5° | 9697.3 | 5934.2 | 192.7 | 96.0 | 69.0 | 49.6 | 36.7 | 29.7 | 27.1 | 23.2 | 23.2 |
| 65° | 10278.8 | 5948.3 | 155.3 | 82.5 | 60.6 | 42.5 | 32.2 | 27.7 | 25.1 | 20.6 | 20.0 |
| 67.5° | 10287.1 | 5561.6 | 124.4 | 73.5 | 53.5 | 37.4 | 29.0 | 26.4 | 23.2 | 19.3 | 18.0 |
| 70° | 9207.4 | 4594.7 | 103.8 | 64.5 | 46.4 | 32.9 | 25.1 | 25.1 | 22.6 | 18.7 | 16.8 |
| 72.5° | 7365.2 | 3511.1 | 87.0 | 56.1 | 41.3 | 28.4 | 23.2 | 23.9 | 21.9 | 18.7 | 16.8 |
| 75° | 4950.5 | 2013.7 | 72.2 | 47.7 | 36.1 | 23.9 | 22.6 | 23.2 | 22.6 | 18.7 | 16.1 |
| 77.5° | 2279.9 | 641.4 | 56.1 | 39.3 | 30.9 | 20.0 | 21.9 | 21.9 | 20.6 | 16.8 | 14.2 |
| 80° | 513.7 | 157.9 | 40.6 | 29.0 | 25.1 | 14.8 | 20.0 | 18.0 | 16.1 | 11.6 | 8.4 |
| 82.5° | 186.9 | 48.3 | 24.5 | 18.0 | 15.5 | 5.8 | 12.9 | 12.9 | 11.6 | 8.4 | 5.2 |
| 85° | 107.0 | 25.1 | 13.5 | 11.6 | 8.4 | 2.6 | 7.1 | 7.7 | 6.4 | 5.8 | 2.6 |
| 87.5° | 34.8 | 5.8 | 6.4 | 7.1 | 6.4 | 1.3 | 2.6 | 2.6 | 1.9 | 1.3 | 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 |

(END OF REPORT)