

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: INVUE

Report Number: P367446

Luminaire Tested: **MSA-SA2C-740-U-SLL**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367446
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: INVUE
Catalog Number: MSA-SA2C-740-U-SLL
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) 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: 10568 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

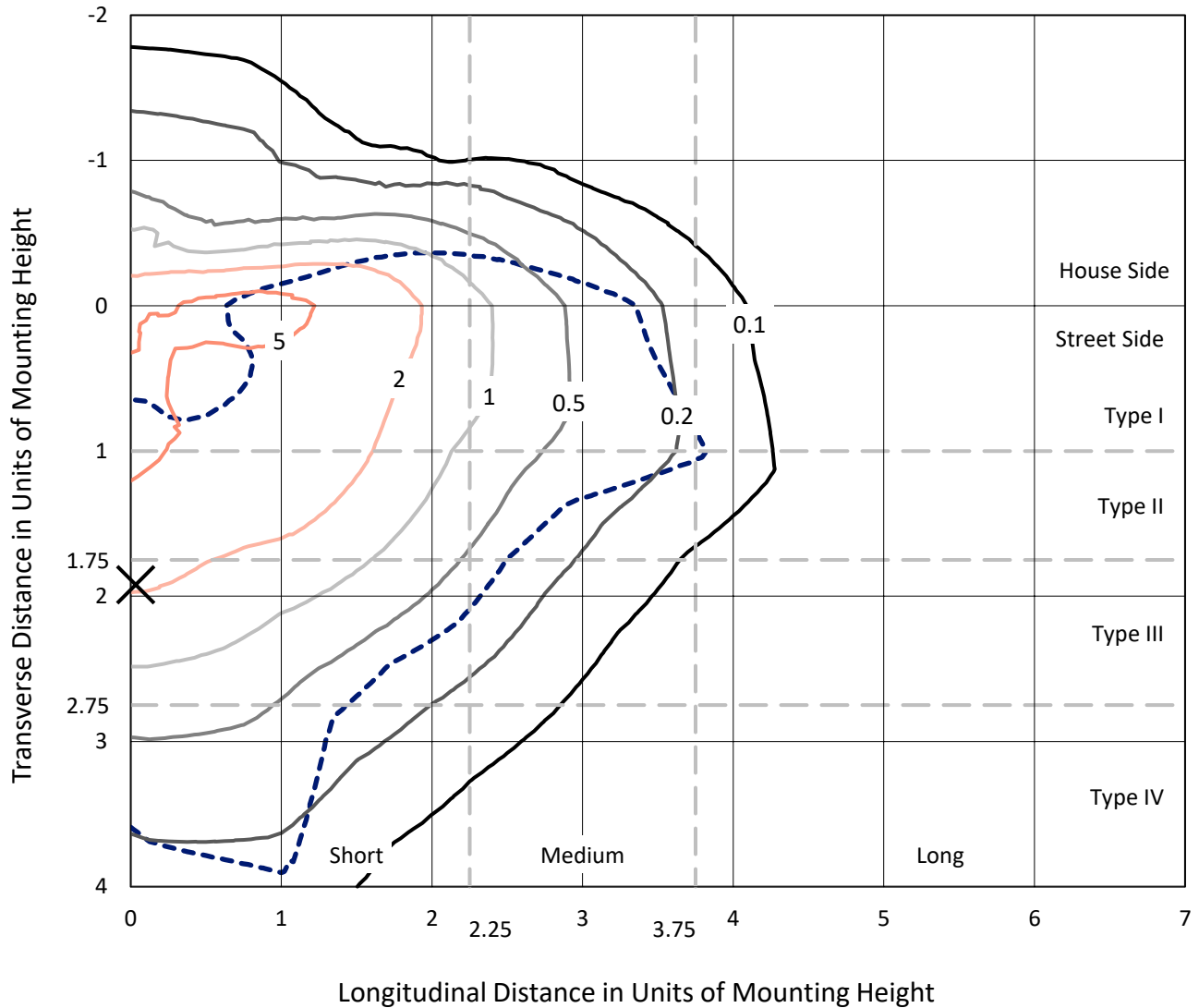
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

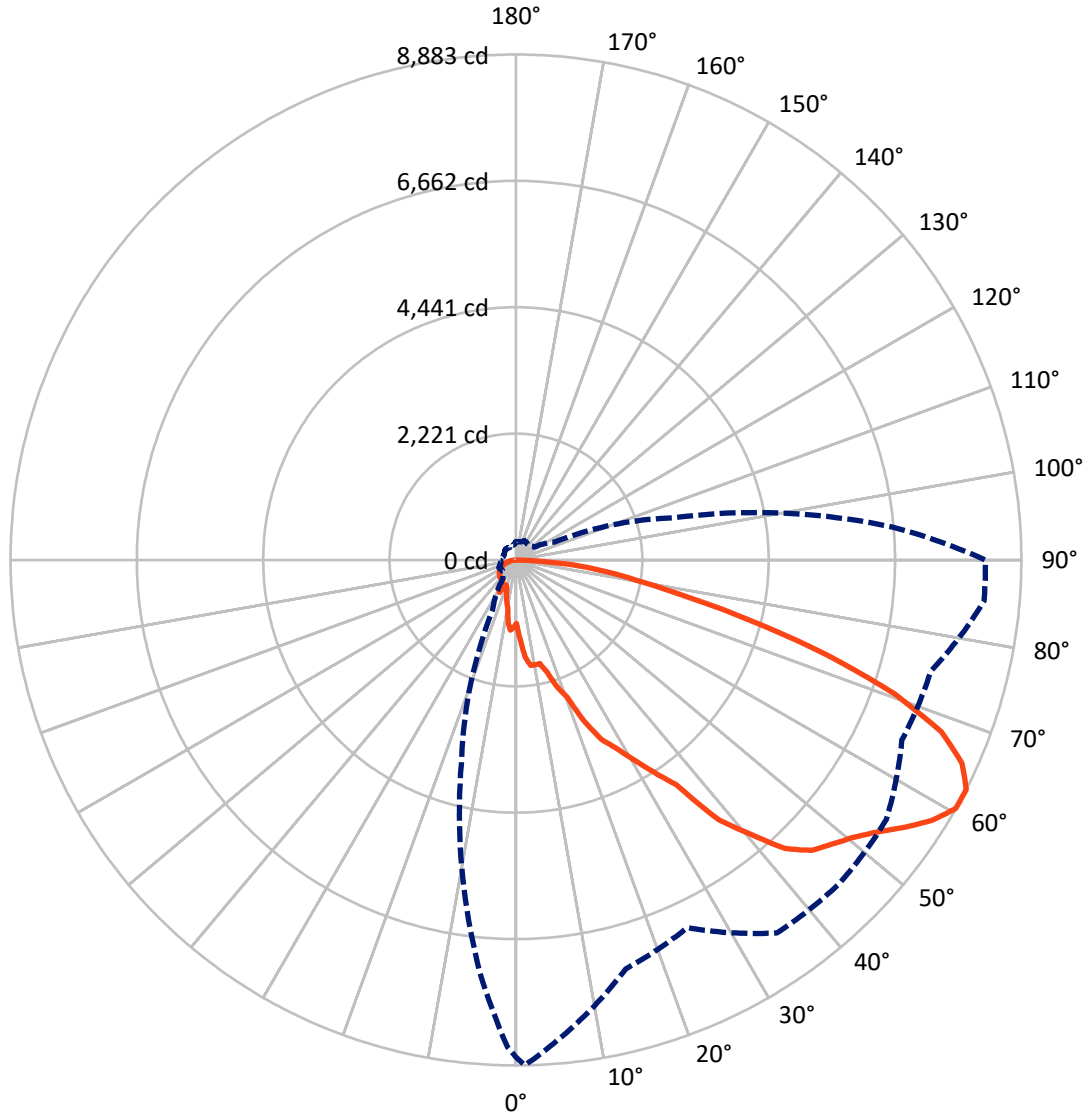
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 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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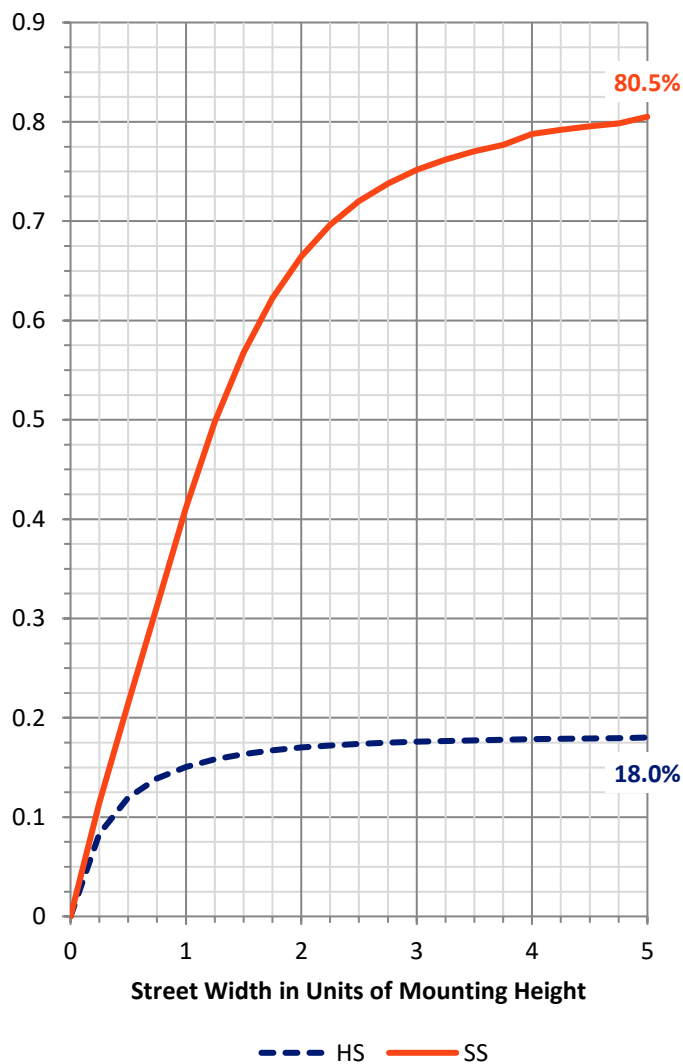
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1924.4 | 0.0 | 1924.4 |
| | % Fixture | 18.2 | 0.0 | 18.2 |
| Street Side | Lumens | 8643.6 | 0.0 | 8643.6 |
| | % Fixture | 81.8 | 0.0 | 81.8 |
| Total | Lumens | 10568.0 | 0.0 | 10568.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 127.7 | 1.2 |
| 10°-20° | 371.2 | 3.5 |
| 20°-30° | 655.4 | 6.2 |
| 30°-40° | 1020.8 | 9.7 |
| 40°-50° | 1680.9 | 15.9 |
| 50°-60° | 2399.1 | 22.7 |
| 60°-70° | 2544.0 | 24.1 |
| 70°-80° | 1405.2 | 13.3 |
| 80°-90° | 363.4 | 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° | 10568.0 | 100.0 |
| 0°-180° | 10568.0 | 100.0 |

Coefficient of Utilization



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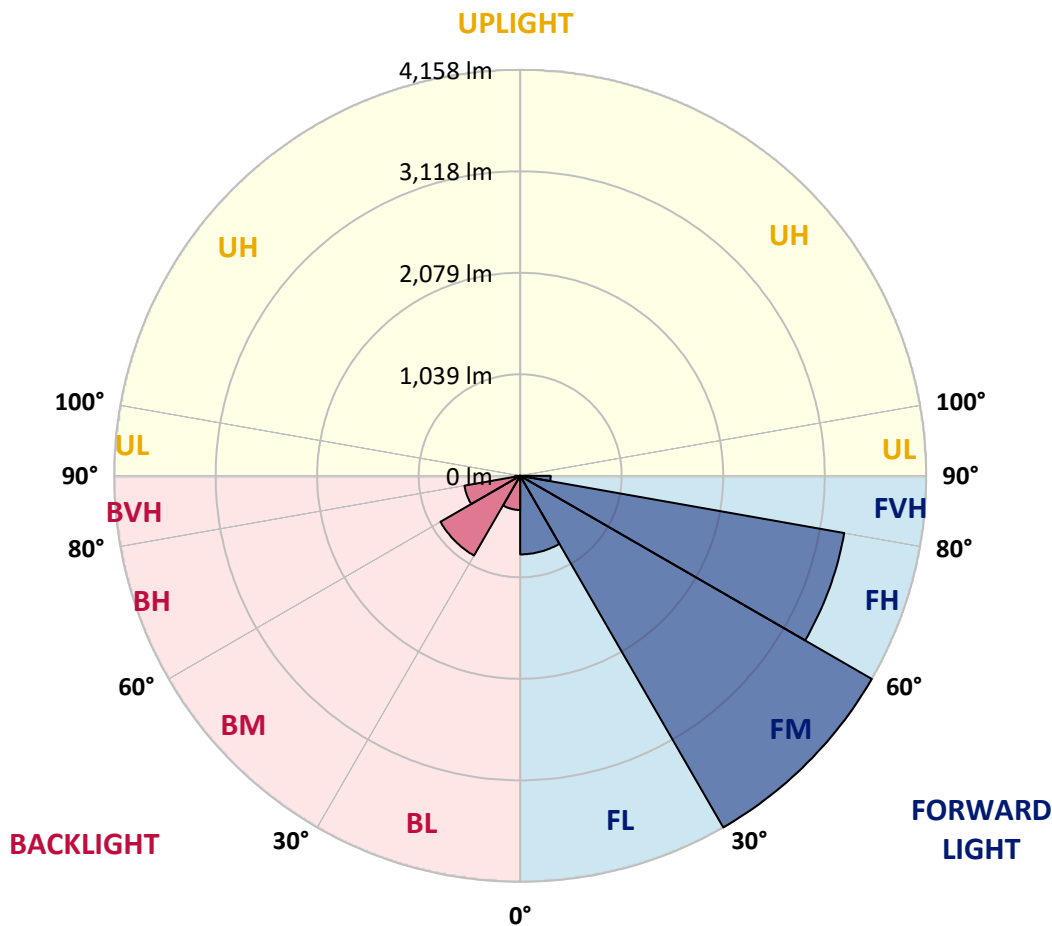
CATALOG NUMBER: MSA-SA2C-740-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 804.4 | 7.6 | | | |
| FM (30°-60°) | 4157.6 | 39.3 | | | |
| FH (60°-80°) | 3369.5 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 312.2 | 3.0 | | | G3/500 |
| BL (0°-30°) | 350.0 | 3.3 | B1/500 | | |
| BM (30°-60°) | 943.4 | 8.9 | B1/1000 | | |
| BH (60°-80°) | 579.8 | 5.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 51.3 | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 |
| 2.5° | 1370.3 | 1382.1 | 1358.0 | 1330.8 | 1218.5 | 1326.7 | 1294.4 | 1354.4 | 1334.9 | 1204.6 | 1443.1 |
| 5° | 1693.4 | 1714.9 | 1691.3 | 1772.9 | 1778.0 | 1799.0 | 1604.7 | 1725.7 | 1683.6 | 1672.9 | 1793.4 |
| 7.5° | 1849.3 | 1871.3 | 1931.3 | 2076.5 | 2189.8 | 2087.2 | 1973.9 | 1948.8 | 1915.9 | 1830.3 | 1903.1 |
| 10° | 1859.0 | 1871.3 | 1951.8 | 2259.5 | 2314.4 | 2387.2 | 2313.9 | 2141.1 | 2069.8 | 1883.6 | 1828.2 |
| 12.5° | 1829.8 | 1868.2 | 1972.4 | 2347.2 | 2510.3 | 2589.8 | 2607.8 | 2415.4 | 2240.6 | 2028.3 | 2000.0 |
| 15° | 2026.2 | 2040.0 | 2189.3 | 2409.8 | 2522.1 | 2589.3 | 2647.8 | 2529.3 | 2474.4 | 2306.2 | 2080.0 |
| 17.5° | 2307.7 | 2346.2 | 2468.3 | 2549.8 | 2625.7 | 2638.5 | 2590.3 | 2544.2 | 2457.0 | 2681.6 | 2441.1 |
| 20° | 2498.5 | 2572.9 | 2722.6 | 2738.0 | 2578.5 | 2606.7 | 2600.1 | 2603.1 | 2553.4 | 2968.8 | 2836.5 |
| 22.5° | 3003.1 | 3083.7 | 3104.2 | 3014.9 | 2714.4 | 2585.7 | 2611.3 | 2685.7 | 2881.6 | 3237.5 | 3387.3 |
| 25° | 3460.1 | 3491.4 | 3678.5 | 3448.8 | 2969.8 | 2689.3 | 2647.2 | 2839.6 | 3159.0 | 3689.8 | 3796.5 |
| 27.5° | 3698.5 | 3739.1 | 3863.7 | 3363.7 | 3001.6 | 2556.0 | 2457.5 | 2750.3 | 3076.0 | 3477.0 | 3945.2 |
| 30° | 4003.7 | 4068.3 | 4238.0 | 3448.8 | 3097.5 | 2643.1 | 2425.2 | 2705.2 | 3065.2 | 3616.5 | 4260.1 |
| 32.5° | 4318.0 | 4443.7 | 4569.9 | 3748.8 | 3084.2 | 2776.5 | 2631.9 | 2654.4 | 3162.6 | 3908.8 | 4586.3 |
| 35° | 4734.5 | 4845.2 | 4954.0 | 3922.1 | 3352.9 | 2887.8 | 2744.2 | 2983.1 | 3412.9 | 4247.8 | 5041.1 |
| 37.5° | 5624.7 | 5800.1 | 5513.5 | 4415.5 | 3645.2 | 3389.3 | 3130.3 | 3271.9 | 3677.5 | 4530.4 | 5784.2 |
| 40° | 6191.9 | 6323.7 | 6046.8 | 4751.4 | 4160.1 | 3727.3 | 3684.7 | 3696.5 | 4042.1 | 4772.4 | 6284.2 |
| 42.5° | 6755.5 | 6934.0 | 6493.5 | 5212.4 | 4782.7 | 4425.2 | 4205.7 | 4190.9 | 4450.4 | 5207.3 | 6853.0 |
| 45° | 7176.1 | 7281.2 | 6646.8 | 5601.2 | 5450.4 | 5185.2 | 5020.6 | 4759.6 | 4986.8 | 5508.3 | 7204.8 |
| 47.5° | 7376.1 | 7461.7 | 6893.5 | 5827.3 | 5883.2 | 5897.1 | 6194.0 | 5748.9 | 5455.5 | 5711.9 | 7389.4 |
| 50° | 7625.8 | 7666.3 | 7038.6 | 6026.3 | 6294.5 | 6902.7 | 6974.0 | 6219.6 | 5911.9 | 5934.0 | 7498.6 |
| 52.5° | 7924.3 | 7941.2 | 7250.4 | 6256.0 | 6710.4 | 7564.3 | 7454.0 | 7017.6 | 6346.3 | 6339.6 | 7704.3 |
| 55° | 8299.7 | 8289.4 | 7516.1 | 6565.3 | 7007.3 | 7957.6 | 7874.0 | 7556.1 | 6819.6 | 6675.5 | 8024.3 |
| 57.5° | 8633.5 | 8627.4 | 7868.4 | 6849.9 | 7257.1 | 8159.7 | 8184.3 | 8100.2 | 7141.7 | 6916.1 | 8371.0 |
| 60° | 8797.1 | 8875.6 | 8269.4 | 7161.2 | 7273.0 | 8251.0 | 8260.2 | 8126.3 | 7501.7 | 7224.8 | 8463.3 |
| 62.5° | 8733.5 | 8882.8 | 8466.4 | 7441.2 | 7126.8 | 8001.7 | 8040.2 | 7947.9 | 7485.3 | 7548.9 | 8257.1 |
| 65° | 8444.3 | 8616.6 | 8295.6 | 7590.4 | 7037.1 | 7584.3 | 7594.0 | 7360.7 | 7250.9 | 7763.8 | 7774.0 |
| 67.5° | 7901.7 | 8063.3 | 7752.0 | 7352.5 | 6422.7 | 6459.1 | 6676.6 | 6695.5 | 6535.5 | 7601.7 | 7095.6 |
| 70° | 6952.0 | 7065.8 | 6870.9 | 6764.8 | 5368.3 | 5155.0 | 5390.9 | 5491.9 | 5564.7 | 7016.6 | 6281.2 |
| 72.5° | 5503.7 | 5723.7 | 5754.5 | 5823.7 | 4322.2 | 3966.8 | 4141.6 | 3991.9 | 4466.3 | 5971.9 | 5131.9 |
| 75° | 4071.9 | 4257.5 | 4457.0 | 4843.2 | 3406.7 | 2969.8 | 2948.3 | 2871.9 | 3314.9 | 4802.7 | 3806.2 |
| 77.5° | 2877.5 | 2996.0 | 3149.3 | 3868.8 | 2570.8 | 2287.2 | 2300.6 | 2223.1 | 2393.9 | 3629.8 | 2629.3 |
| 80° | 2062.6 | 2124.7 | 2195.9 | 2548.8 | 1896.5 | 1973.4 | 1975.4 | 1902.1 | 1780.0 | 2465.2 | 1754.9 |
| 82.5° | 1469.8 | 1518.0 | 1599.5 | 1681.1 | 1413.9 | 1617.5 | 1615.9 | 1611.3 | 1411.3 | 1666.2 | 1098.0 |
| 85° | 818.5 | 883.1 | 1024.6 | 1317.0 | 1021.0 | 1156.4 | 1016.9 | 1120.0 | 1035.9 | 1109.3 | 555.9 |
| 87.5° | 57.4 | 51.3 | 229.2 | 763.1 | 476.4 | 348.2 | 182.6 | 361.5 | 463.6 | 579.5 | 77.4 |
| 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: MSA-SA2C-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 |
| 2.5° | 1492.3 | 1510.3 | 1440.0 | 1334.4 | 1363.1 | 1331.8 | 1292.3 | 1230.8 | 1104.1 | 1182.6 | 1183.1 |
| 5° | 1792.3 | 1724.1 | 1669.3 | 1617.5 | 1530.3 | 1398.5 | 1381.1 | 1275.4 | 1215.9 | 1247.2 | 1242.6 |
| 7.5° | 1886.2 | 1789.3 | 1706.7 | 1521.6 | 1360.0 | 1155.4 | 1093.9 | 1031.3 | 1005.2 | 1081.1 | 1111.3 |
| 10° | 1783.1 | 1682.1 | 1601.1 | 1375.9 | 1266.2 | 1138.5 | 969.3 | 882.6 | 831.3 | 851.3 | 863.1 |
| 12.5° | 1866.2 | 1763.1 | 1508.2 | 1382.6 | 1201.6 | 1123.6 | 975.4 | 848.2 | 772.3 | 790.8 | 768.7 |
| 15° | 1946.2 | 1807.2 | 1552.3 | 1302.1 | 1155.4 | 1042.6 | 922.6 | 791.3 | 702.1 | 670.3 | 653.3 |
| 17.5° | 2238.5 | 2007.7 | 1547.2 | 1257.0 | 1088.7 | 959.0 | 814.4 | 670.8 | 611.3 | 578.5 | 550.3 |
| 20° | 2594.9 | 2273.4 | 1574.9 | 1210.3 | 1018.0 | 854.4 | 696.9 | 563.6 | 522.1 | 500.5 | 492.8 |
| 22.5° | 3019.0 | 2613.9 | 1733.4 | 1203.6 | 951.3 | 778.0 | 632.3 | 549.2 | 502.6 | 479.0 | 469.2 |
| 25° | 3356.0 | 2966.2 | 1850.3 | 1248.7 | 947.7 | 714.9 | 593.3 | 610.3 | 588.7 | 595.9 | 539.0 |
| 27.5° | 3683.2 | 3062.1 | 1784.7 | 1228.7 | 852.3 | 603.1 | 584.1 | 619.5 | 638.0 | 643.6 | 641.6 |
| 30° | 3959.6 | 3467.3 | 1799.0 | 1115.9 | 720.0 | 491.3 | 447.2 | 464.6 | 515.4 | 595.9 | 611.3 |
| 32.5° | 4364.2 | 3661.1 | 1921.6 | 1047.7 | 643.6 | 439.5 | 390.3 | 383.6 | 395.4 | 424.6 | 449.8 |
| 35° | 4837.5 | 4107.3 | 1955.9 | 1029.8 | 590.8 | 416.4 | 382.1 | 366.7 | 372.8 | 394.9 | 400.0 |
| 37.5° | 5720.1 | 4432.4 | 2083.1 | 1007.7 | 571.3 | 402.6 | 375.9 | 370.3 | 383.6 | 401.5 | 411.8 |
| 40° | 6206.8 | 5017.0 | 2089.3 | 988.7 | 546.2 | 396.9 | 380.0 | 377.4 | 385.7 | 410.3 | 416.4 |
| 42.5° | 6855.5 | 5350.4 | 2185.7 | 966.7 | 537.4 | 404.6 | 388.2 | 387.2 | 394.4 | 408.7 | 420.0 |
| 45° | 7250.9 | 5573.5 | 2190.8 | 953.9 | 535.4 | 438.5 | 399.0 | 395.4 | 393.9 | 402.6 | 412.8 |
| 47.5° | 7505.8 | 5895.0 | 2253.4 | 939.5 | 547.7 | 447.2 | 411.8 | 396.4 | 391.3 | 394.9 | 402.6 |
| 50° | 7747.4 | 6151.9 | 2371.9 | 937.5 | 560.5 | 438.5 | 434.4 | 395.9 | 385.7 | 384.1 | 389.8 |
| 52.5° | 8043.8 | 6574.5 | 2518.0 | 956.9 | 557.4 | 425.7 | 451.3 | 393.9 | 375.4 | 371.8 | 377.4 |
| 55° | 8475.1 | 7027.3 | 2673.4 | 940.5 | 525.7 | 401.0 | 434.9 | 392.3 | 364.6 | 358.0 | 363.1 |
| 57.5° | 8754.6 | 7286.8 | 2847.2 | 926.7 | 477.4 | 382.6 | 420.0 | 393.3 | 365.6 | 350.8 | 353.9 |
| 60° | 8661.7 | 7147.3 | 2915.5 | 842.1 | 431.8 | 368.2 | 384.6 | 385.1 | 356.4 | 342.6 | 345.1 |
| 62.5° | 8251.5 | 6642.2 | 2851.9 | 743.6 | 398.0 | 347.7 | 348.2 | 369.8 | 329.8 | 320.0 | 324.1 |
| 65° | 7678.1 | 6014.0 | 2594.4 | 679.5 | 382.1 | 326.2 | 318.0 | 324.6 | 293.9 | 286.7 | 294.9 |
| 67.5° | 6974.5 | 5239.6 | 2211.3 | 611.8 | 376.4 | 296.9 | 287.2 | 284.6 | 265.1 | 256.9 | 265.1 |
| 70° | 6091.9 | 4387.3 | 1767.7 | 564.1 | 354.9 | 265.1 | 257.4 | 254.9 | 238.5 | 232.3 | 239.5 |
| 72.5° | 4896.5 | 3425.7 | 1364.1 | 527.7 | 331.3 | 235.9 | 229.2 | 226.2 | 212.3 | 203.6 | 212.3 |
| 75° | 3482.6 | 2618.0 | 1013.4 | 471.8 | 298.0 | 206.2 | 198.5 | 194.4 | 181.5 | 173.3 | 181.0 |
| 77.5° | 2474.9 | 1965.2 | 707.7 | 390.3 | 245.6 | 174.4 | 169.7 | 163.1 | 151.8 | 142.1 | 149.7 |
| 80° | 1829.8 | 1404.1 | 456.4 | 301.0 | 187.7 | 139.5 | 136.9 | 132.3 | 121.5 | 109.7 | 115.4 |
| 82.5° | 1204.6 | 1012.3 | 261.5 | 204.1 | 136.4 | 100.5 | 102.6 | 99.5 | 89.2 | 76.9 | 80.0 |
| 85° | 539.5 | 599.5 | 139.0 | 112.3 | 88.7 | 60.5 | 66.2 | 64.1 | 56.4 | 44.6 | 45.6 |
| 87.5° | 51.8 | 101.0 | 42.6 | 41.0 | 32.8 | 19.0 | 23.6 | 20.0 | 16.9 | 10.8 | 8.2 |
| 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: MSA-SA2C-740-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 | 1114.4 |
| 2.5° | 1201.1 | 1128.7 | 1056.4 | 1100.5 | 1101.6 | 1113.4 | 1114.9 | 1071.3 | 1106.2 | 1132.8 | 1160.5 |
| 5° | 1220.0 | 1172.8 | 1175.4 | 1132.8 | 1109.8 | 1139.5 | 1133.4 | 1121.6 | 1142.6 | 1171.8 | 1207.2 |
| 7.5° | 1082.6 | 1051.8 | 1046.7 | 1005.7 | 906.2 | 884.1 | 902.6 | 910.3 | 938.5 | 983.6 | 1021.6 |
| 10° | 845.1 | 906.2 | 837.5 | 821.6 | 795.4 | 744.1 | 714.4 | 710.8 | 770.8 | 807.2 | 839.0 |
| 12.5° | 761.6 | 746.2 | 738.0 | 694.4 | 694.4 | 640.0 | 622.6 | 638.5 | 730.8 | 756.9 | 798.0 |
| 15° | 648.7 | 637.5 | 599.5 | 578.0 | 567.7 | 545.7 | 564.1 | 579.5 | 665.7 | 667.7 | 710.8 |
| 17.5° | 538.5 | 531.8 | 495.9 | 491.8 | 481.5 | 471.8 | 488.7 | 525.7 | 572.3 | 564.1 | 584.1 |
| 20° | 481.5 | 458.5 | 425.7 | 437.4 | 426.7 | 419.0 | 411.8 | 464.1 | 496.9 | 507.7 | 519.5 |
| 22.5° | 467.2 | 425.1 | 405.7 | 394.9 | 395.4 | 383.1 | 384.6 | 428.2 | 478.0 | 484.6 | 477.4 |
| 25° | 533.9 | 459.0 | 395.9 | 364.6 | 352.8 | 348.7 | 360.5 | 399.0 | 459.0 | 473.3 | 479.0 |
| 27.5° | 624.6 | 498.5 | 407.7 | 354.4 | 330.8 | 332.8 | 349.8 | 376.4 | 447.2 | 472.8 | 479.5 |
| 30° | 599.5 | 468.7 | 408.2 | 346.7 | 317.4 | 328.2 | 334.4 | 360.0 | 438.0 | 476.4 | 509.8 |
| 32.5° | 462.6 | 421.5 | 410.8 | 352.8 | 341.0 | 324.1 | 332.8 | 357.4 | 410.8 | 434.9 | 436.4 |
| 35° | 391.8 | 360.5 | 353.3 | 339.0 | 322.6 | 315.4 | 325.1 | 346.7 | 381.5 | 396.4 | 394.4 |
| 37.5° | 388.7 | 354.4 | 326.2 | 320.0 | 313.3 | 311.3 | 316.9 | 336.9 | 372.3 | 398.5 | 392.8 |
| 40° | 393.9 | 351.3 | 322.6 | 311.8 | 314.4 | 305.1 | 310.8 | 335.4 | 373.9 | 398.5 | 393.3 |
| 42.5° | 387.7 | 347.7 | 318.0 | 309.8 | 312.3 | 299.5 | 306.2 | 331.8 | 369.8 | 399.0 | 389.2 |
| 45° | 375.4 | 339.5 | 315.4 | 301.5 | 313.3 | 294.4 | 302.6 | 322.6 | 357.4 | 389.2 | 378.0 |
| 47.5° | 363.1 | 329.8 | 304.6 | 295.9 | 307.7 | 289.2 | 292.8 | 310.3 | 345.1 | 376.4 | 366.7 |
| 50° | 349.8 | 317.4 | 295.9 | 293.3 | 301.5 | 288.2 | 282.6 | 296.9 | 330.3 | 361.5 | 353.3 |
| 52.5° | 335.4 | 307.2 | 289.8 | 288.7 | 296.4 | 281.5 | 273.3 | 284.6 | 314.4 | 345.6 | 339.0 |
| 55° | 321.5 | 295.9 | 282.1 | 284.6 | 293.3 | 275.9 | 265.6 | 272.8 | 297.4 | 328.2 | 319.0 |
| 57.5° | 307.7 | 283.1 | 271.8 | 279.0 | 285.6 | 268.7 | 255.9 | 260.0 | 280.0 | 310.3 | 299.5 |
| 60° | 295.4 | 271.8 | 260.5 | 269.2 | 275.4 | 258.0 | 243.1 | 245.6 | 263.6 | 290.8 | 281.0 |
| 62.5° | 279.5 | 259.5 | 244.6 | 255.9 | 260.5 | 243.6 | 227.7 | 230.8 | 245.1 | 270.8 | 263.6 |
| 65° | 256.9 | 244.1 | 230.3 | 238.0 | 244.1 | 226.7 | 211.8 | 215.4 | 226.2 | 250.3 | 245.1 |
| 67.5° | 237.4 | 225.1 | 215.9 | 222.1 | 223.1 | 209.7 | 196.4 | 198.5 | 207.2 | 229.7 | 224.1 |
| 70° | 215.9 | 204.1 | 196.9 | 201.5 | 201.0 | 189.7 | 179.5 | 180.0 | 187.2 | 207.7 | 200.0 |
| 72.5° | 192.3 | 181.0 | 177.4 | 180.0 | 178.0 | 167.7 | 158.0 | 161.5 | 166.2 | 181.5 | 175.4 |
| 75° | 167.2 | 156.9 | 154.9 | 157.4 | 154.4 | 144.6 | 135.9 | 139.5 | 143.6 | 156.4 | 148.7 |
| 77.5° | 141.0 | 131.8 | 132.3 | 132.8 | 128.7 | 122.1 | 113.3 | 116.9 | 119.5 | 128.2 | 120.5 |
| 80° | 112.3 | 105.1 | 107.2 | 107.2 | 102.6 | 98.0 | 89.7 | 90.8 | 92.3 | 95.4 | 89.7 |
| 82.5° | 82.1 | 82.1 | 82.1 | 82.6 | 72.8 | 74.4 | 67.2 | 66.7 | 65.1 | 64.6 | 61.0 |
| 85° | 48.7 | 50.8 | 51.8 | 53.3 | 39.5 | 46.2 | 40.0 | 38.5 | 35.4 | 32.3 | 31.3 |
| 87.5° | 10.8 | 13.8 | 13.8 | 13.3 | 0.0 | 5.1 | 2.6 | 4.1 | 1.0 | 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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| 87.5° | 8.7 | 13.3 | 11.8 | 5.1 | 21.5 | 30.3 | 41.0 | 148.2 | 59.0 | 57.4 |
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