

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: P366962

Luminaire Tested: **MSA-SA1C-760-U-SLL**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366962
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-SA1C-760-U-SLL
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) 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: 5373 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

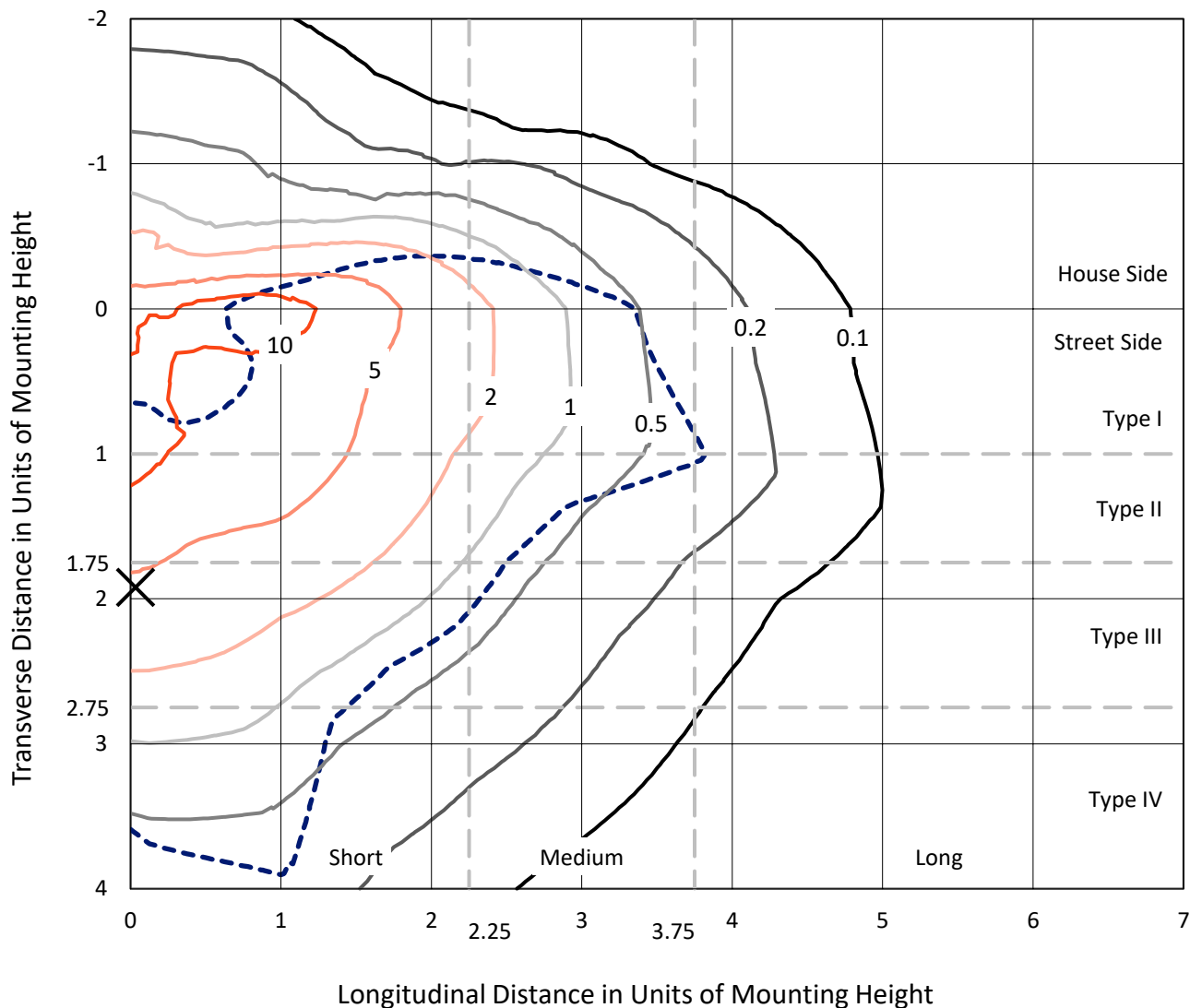
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

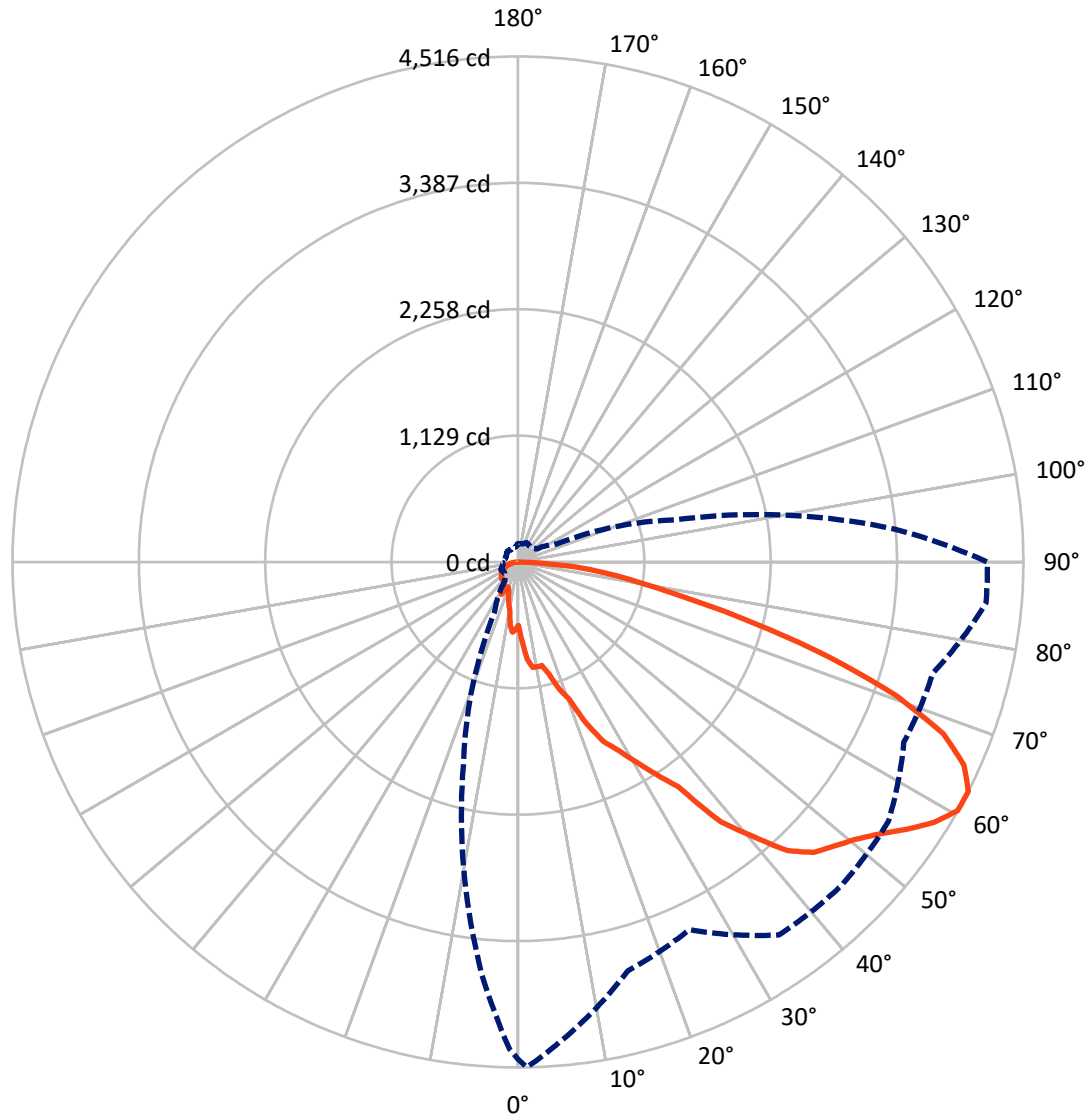
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 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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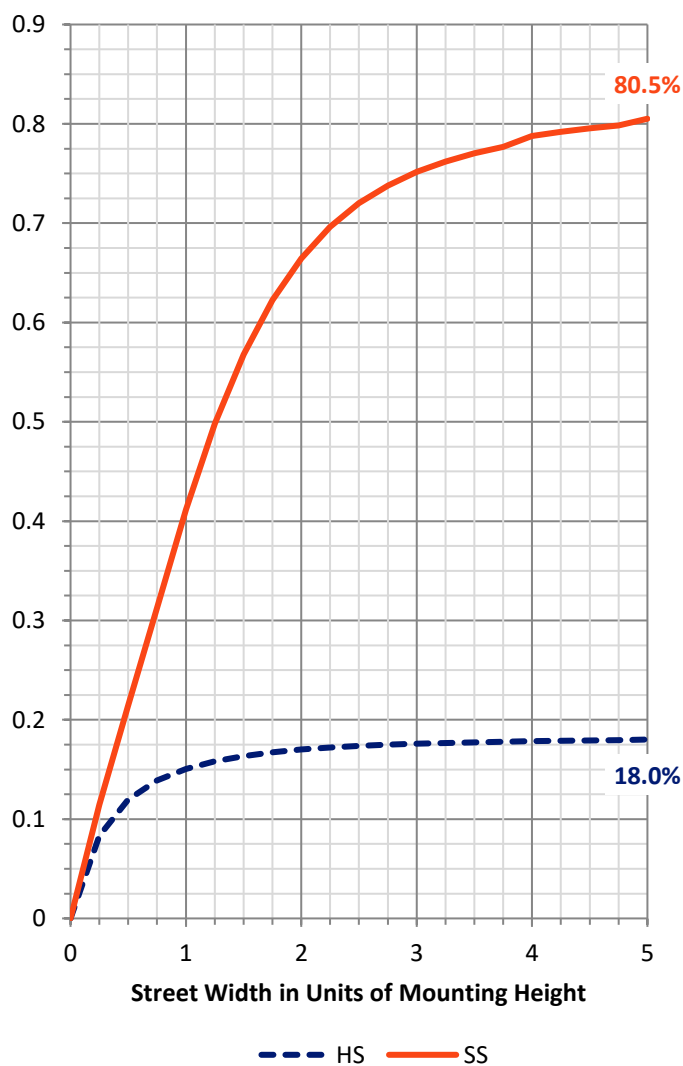
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 978.4 | 0.0 | 978.4 |
| | % Fixture | 18.2 | 0.0 | 18.2 |
| Street Side | Lumens | 4394.6 | 0.0 | 4394.6 |
| | % Fixture | 81.8 | 0.0 | 81.8 |
| Total | Lumens | 5373.0 | 0.0 | 5373.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.0 | 1.2 |
| 10°-20° | 188.7 | 3.5 |
| 20°-30° | 333.2 | 6.2 |
| 30°-40° | 519.0 | 9.7 |
| 40°-50° | 854.6 | 15.9 |
| 50°-60° | 1219.8 | 22.7 |
| 60°-70° | 1293.4 | 24.1 |
| 70°-80° | 714.4 | 13.3 |
| 80°-90° | 184.8 | 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° | 5373.0 | 100.0 |
| 0°-180° | 5373.0 | 100.0 |

Coefficient of Utilization



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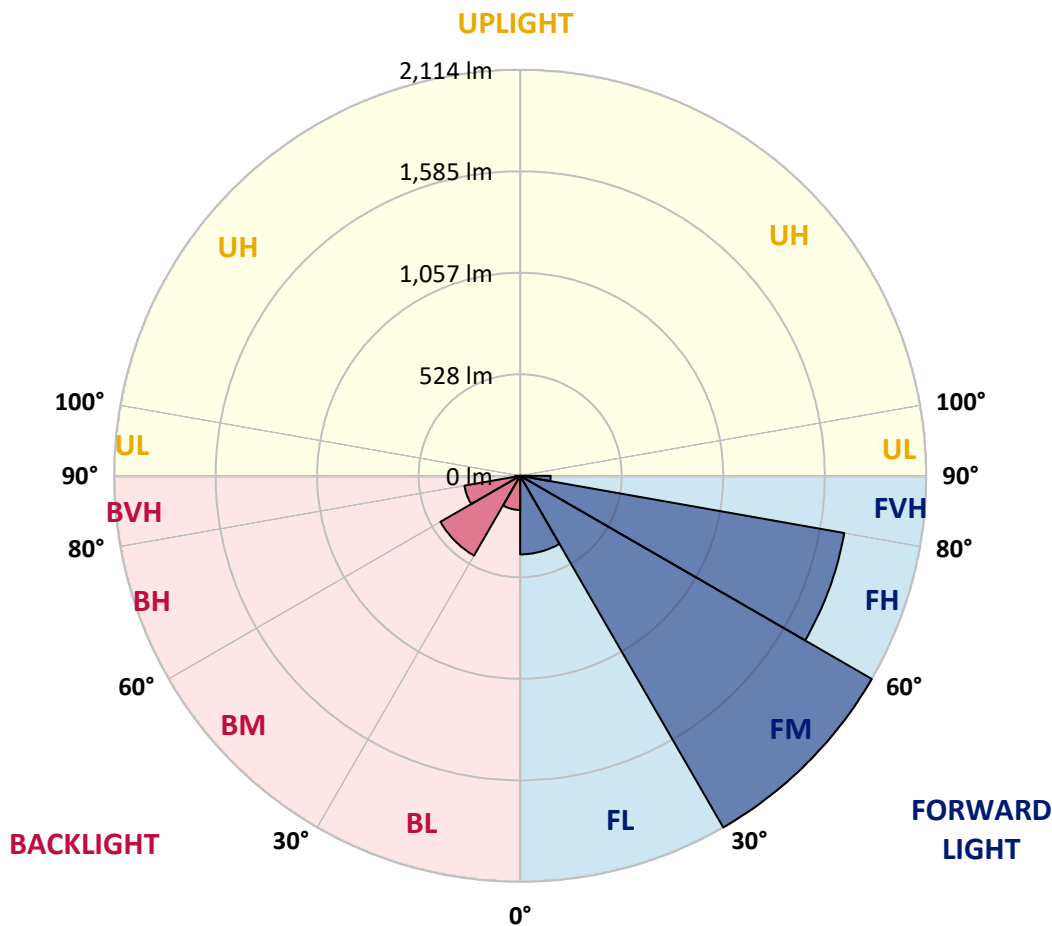
CATALOG NUMBER: MSA-SA1C-760-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 409.0 | 7.6 | | | |
| FM (30°-60°) | 2113.8 | 39.3 | | | |
| FH (60°-80°) | 1713.1 | 31.9 | | | G1/1800 |
| FVH (80°-90°) | 158.7 | 3.0 | | | G2/225 |
| BL (0°-30°) | 177.9 | 3.3 | B1/500 | | |
| BM (30°-60°) | 479.6 | 8.9 | B1/1000 | | |
| BH (60°-80°) | 294.8 | 5.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 26.1 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CATALOG NUMBER: MSA-SA1C-760-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 |
| 2.5° | 696.7 | 702.7 | 690.4 | 676.6 | 619.5 | 674.5 | 658.1 | 688.6 | 678.7 | 612.5 | 733.7 |
| 5° | 860.9 | 871.9 | 859.9 | 901.4 | 904.0 | 914.7 | 815.8 | 877.4 | 856.0 | 850.5 | 911.8 |
| 7.5° | 940.2 | 951.4 | 981.9 | 1055.7 | 1113.3 | 1061.2 | 1003.6 | 990.8 | 974.1 | 930.6 | 967.6 |
| 10° | 945.2 | 951.4 | 992.4 | 1148.8 | 1176.7 | 1213.7 | 1176.4 | 1088.6 | 1052.3 | 957.7 | 929.5 |
| 12.5° | 930.3 | 949.9 | 1002.8 | 1193.4 | 1276.3 | 1316.7 | 1325.8 | 1228.1 | 1139.2 | 1031.2 | 1016.9 |
| 15° | 1030.2 | 1037.2 | 1113.1 | 1225.2 | 1282.3 | 1316.5 | 1346.2 | 1285.9 | 1258.0 | 1172.5 | 1057.5 |
| 17.5° | 1173.3 | 1192.9 | 1254.9 | 1296.4 | 1335.0 | 1341.5 | 1317.0 | 1293.5 | 1249.2 | 1363.4 | 1241.1 |
| 20° | 1270.3 | 1308.1 | 1384.2 | 1392.1 | 1311.0 | 1325.3 | 1321.9 | 1323.5 | 1298.2 | 1509.4 | 1442.1 |
| 22.5° | 1526.9 | 1567.8 | 1578.2 | 1532.9 | 1380.1 | 1314.6 | 1327.7 | 1365.5 | 1465.1 | 1646.0 | 1722.2 |
| 25° | 1759.2 | 1775.1 | 1870.3 | 1753.4 | 1509.9 | 1367.3 | 1345.9 | 1443.7 | 1606.1 | 1876.0 | 1930.2 |
| 27.5° | 1880.4 | 1901.0 | 1964.4 | 1710.2 | 1526.1 | 1299.5 | 1249.4 | 1398.3 | 1563.9 | 1767.8 | 2005.8 |
| 30° | 2035.6 | 2068.4 | 2154.7 | 1753.4 | 1574.8 | 1343.8 | 1233.0 | 1375.4 | 1558.4 | 1838.7 | 2165.9 |
| 32.5° | 2195.4 | 2259.3 | 2323.4 | 1906.0 | 1568.1 | 1411.6 | 1338.1 | 1349.6 | 1608.0 | 1987.3 | 2331.8 |
| 35° | 2407.1 | 2463.4 | 2518.7 | 1994.1 | 1704.7 | 1468.2 | 1395.2 | 1516.7 | 1735.2 | 2159.7 | 2563.0 |
| 37.5° | 2859.7 | 2948.9 | 2803.2 | 2244.9 | 1853.3 | 1723.2 | 1591.5 | 1663.5 | 1869.7 | 2303.3 | 2940.8 |
| 40° | 3148.1 | 3215.1 | 3074.3 | 2415.7 | 2115.1 | 1895.0 | 1873.4 | 1879.4 | 2055.1 | 2426.4 | 3195.0 |
| 42.5° | 3434.7 | 3525.4 | 3301.4 | 2650.1 | 2431.6 | 2249.9 | 2138.3 | 2130.7 | 2262.7 | 2647.5 | 3484.2 |
| 45° | 3648.5 | 3701.9 | 3379.4 | 2847.7 | 2771.1 | 2636.3 | 2552.6 | 2419.9 | 2535.4 | 2800.6 | 3663.1 |
| 47.5° | 3750.2 | 3793.7 | 3504.8 | 2962.7 | 2991.2 | 2998.2 | 3149.2 | 2922.8 | 2773.7 | 2904.1 | 3756.9 |
| 50° | 3877.1 | 3897.7 | 3578.6 | 3063.9 | 3200.3 | 3509.5 | 3545.7 | 3162.2 | 3005.8 | 3017.0 | 3812.5 |
| 52.5° | 4028.9 | 4037.5 | 3686.3 | 3180.7 | 3411.7 | 3845.8 | 3789.8 | 3567.9 | 3226.6 | 3223.2 | 3917.0 |
| 55° | 4219.7 | 4214.5 | 3821.3 | 3337.9 | 3562.7 | 4045.8 | 4003.3 | 3841.7 | 3467.3 | 3394.0 | 4079.7 |
| 57.5° | 4389.5 | 4386.3 | 4000.5 | 3482.6 | 3689.7 | 4148.6 | 4161.1 | 4118.3 | 3631.0 | 3516.3 | 4256.0 |
| 60° | 4472.7 | 4512.5 | 4204.4 | 3640.9 | 3697.7 | 4195.0 | 4199.7 | 4131.6 | 3814.0 | 3673.2 | 4302.9 |
| 62.5° | 4440.3 | 4516.2 | 4304.5 | 3783.3 | 3623.4 | 4068.3 | 4087.8 | 4040.9 | 3805.7 | 3838.0 | 4198.1 |
| 65° | 4293.3 | 4380.9 | 4217.7 | 3859.1 | 3577.8 | 3856.0 | 3861.0 | 3742.3 | 3686.5 | 3947.3 | 3952.5 |
| 67.5° | 4017.4 | 4099.5 | 3941.3 | 3738.2 | 3265.4 | 3284.0 | 3394.5 | 3404.2 | 3322.8 | 3864.9 | 3607.5 |
| 70° | 3534.5 | 3592.4 | 3493.3 | 3439.4 | 2729.4 | 2620.9 | 2740.8 | 2792.2 | 2829.2 | 3567.4 | 3193.5 |
| 72.5° | 2798.2 | 2910.1 | 2925.7 | 2960.9 | 2197.5 | 2016.8 | 2105.7 | 2029.6 | 2270.7 | 3036.3 | 2609.2 |
| 75° | 2070.2 | 2164.6 | 2266.0 | 2462.4 | 1732.1 | 1509.9 | 1499.0 | 1460.1 | 1685.4 | 2441.8 | 1935.2 |
| 77.5° | 1463.0 | 1523.2 | 1601.2 | 1967.0 | 1307.1 | 1162.9 | 1169.7 | 1130.3 | 1217.1 | 1845.5 | 1336.8 |
| 80° | 1048.7 | 1080.2 | 1116.5 | 1295.9 | 964.2 | 1003.3 | 1004.4 | 967.1 | 905.0 | 1253.4 | 892.2 |
| 82.5° | 747.3 | 771.8 | 813.2 | 854.7 | 718.8 | 822.4 | 821.6 | 819.2 | 717.5 | 847.1 | 558.2 |
| 85° | 416.1 | 449.0 | 520.9 | 669.6 | 519.1 | 588.0 | 517.0 | 569.4 | 526.7 | 564.0 | 282.6 |
| 87.5° | 29.2 | 26.1 | 116.5 | 388.0 | 242.2 | 177.0 | 92.8 | 183.8 | 235.7 | 294.6 | 39.4 |
| 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-SA1C-760-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 |
| 2.5° | 758.7 | 767.9 | 732.1 | 678.4 | 693.0 | 677.1 | 657.1 | 625.8 | 561.4 | 601.3 | 601.5 |
| 5° | 911.3 | 876.6 | 848.7 | 822.4 | 778.0 | 711.0 | 702.2 | 648.4 | 618.2 | 634.1 | 631.8 |
| 7.5° | 959.0 | 909.7 | 867.7 | 773.6 | 691.5 | 587.4 | 556.1 | 524.3 | 511.0 | 549.6 | 565.0 |
| 10° | 906.6 | 855.2 | 814.0 | 699.6 | 643.8 | 578.8 | 492.8 | 448.7 | 422.7 | 432.8 | 438.8 |
| 12.5° | 948.8 | 896.4 | 766.8 | 702.9 | 610.9 | 571.3 | 495.9 | 431.3 | 392.7 | 402.1 | 390.8 |
| 15° | 989.5 | 918.8 | 789.2 | 662.0 | 587.4 | 530.1 | 469.1 | 402.3 | 356.9 | 340.8 | 332.2 |
| 17.5° | 1138.1 | 1020.8 | 786.6 | 639.1 | 553.5 | 487.6 | 414.0 | 341.0 | 310.8 | 294.1 | 279.8 |
| 20° | 1319.3 | 1155.8 | 800.7 | 615.3 | 517.6 | 434.4 | 354.3 | 286.5 | 265.4 | 254.5 | 250.6 |
| 22.5° | 1534.9 | 1329.0 | 881.3 | 611.9 | 483.7 | 395.5 | 321.5 | 279.2 | 255.5 | 243.5 | 238.6 |
| 25° | 1706.3 | 1508.1 | 940.7 | 634.9 | 481.8 | 363.5 | 301.7 | 310.3 | 299.3 | 303.0 | 274.0 |
| 27.5° | 1872.6 | 1556.8 | 907.4 | 624.7 | 433.3 | 306.6 | 297.0 | 315.0 | 324.4 | 327.2 | 326.2 |
| 30° | 2013.1 | 1762.8 | 914.7 | 567.4 | 366.1 | 249.8 | 227.4 | 236.2 | 262.0 | 303.0 | 310.8 |
| 32.5° | 2218.9 | 1861.4 | 977.0 | 532.7 | 327.2 | 223.5 | 198.4 | 195.0 | 201.0 | 215.9 | 228.7 |
| 35° | 2459.5 | 2088.2 | 994.4 | 523.6 | 300.4 | 211.7 | 194.2 | 186.4 | 189.6 | 200.8 | 203.4 |
| 37.5° | 2908.2 | 2253.5 | 1059.1 | 512.3 | 290.5 | 204.7 | 191.1 | 188.3 | 195.0 | 204.2 | 209.4 |
| 40° | 3155.7 | 2550.8 | 1062.2 | 502.7 | 277.7 | 201.8 | 193.2 | 191.9 | 196.1 | 208.6 | 211.7 |
| 42.5° | 3485.5 | 2720.2 | 1111.3 | 491.5 | 273.3 | 205.7 | 197.4 | 196.9 | 200.5 | 207.8 | 213.5 |
| 45° | 3686.5 | 2833.7 | 1113.9 | 485.0 | 272.2 | 222.9 | 202.9 | 201.0 | 200.2 | 204.7 | 209.9 |
| 47.5° | 3816.1 | 2997.2 | 1145.7 | 477.7 | 278.5 | 227.4 | 209.4 | 201.5 | 198.9 | 200.8 | 204.7 |
| 50° | 3938.9 | 3127.8 | 1205.9 | 476.6 | 285.0 | 222.9 | 220.8 | 201.3 | 196.1 | 195.3 | 198.2 |
| 52.5° | 4089.6 | 3342.6 | 1280.2 | 486.5 | 283.4 | 216.4 | 229.4 | 200.2 | 190.9 | 189.0 | 191.9 |
| 55° | 4308.9 | 3572.9 | 1359.2 | 478.2 | 267.3 | 203.9 | 221.1 | 199.5 | 185.4 | 182.0 | 184.6 |
| 57.5° | 4451.0 | 3704.8 | 1447.6 | 471.1 | 242.7 | 194.5 | 213.5 | 200.0 | 185.9 | 178.3 | 179.9 |
| 60° | 4403.8 | 3633.9 | 1482.3 | 428.1 | 219.5 | 187.2 | 195.6 | 195.8 | 181.2 | 174.2 | 175.5 |
| 62.5° | 4195.2 | 3377.0 | 1449.9 | 378.1 | 202.3 | 176.8 | 177.0 | 188.0 | 167.7 | 162.7 | 164.8 |
| 65° | 3903.7 | 3057.6 | 1319.1 | 345.5 | 194.2 | 165.8 | 161.7 | 165.0 | 149.4 | 145.8 | 149.9 |
| 67.5° | 3546.0 | 2663.9 | 1124.3 | 311.1 | 191.4 | 151.0 | 146.0 | 144.7 | 134.8 | 130.6 | 134.8 |
| 70° | 3097.3 | 2230.6 | 898.8 | 286.8 | 180.4 | 134.8 | 130.9 | 129.6 | 121.2 | 118.1 | 121.8 |
| 72.5° | 2489.5 | 1741.7 | 693.6 | 268.3 | 168.4 | 119.9 | 116.5 | 115.0 | 107.9 | 103.5 | 107.9 |
| 75° | 1770.7 | 1331.1 | 515.2 | 239.9 | 151.5 | 104.8 | 100.9 | 98.8 | 92.3 | 88.1 | 92.0 |
| 77.5° | 1258.3 | 999.1 | 359.8 | 198.4 | 124.9 | 88.6 | 86.3 | 82.9 | 77.2 | 72.2 | 76.1 |
| 80° | 930.3 | 713.9 | 232.1 | 153.1 | 95.4 | 70.9 | 69.6 | 67.3 | 61.8 | 55.8 | 58.7 |
| 82.5° | 612.5 | 514.7 | 133.0 | 103.8 | 69.4 | 51.1 | 52.1 | 50.6 | 45.4 | 39.1 | 40.7 |
| 85° | 274.3 | 304.8 | 70.7 | 57.1 | 45.1 | 30.8 | 33.6 | 32.6 | 28.7 | 22.7 | 23.2 |
| 87.5° | 26.3 | 51.4 | 21.6 | 20.9 | 16.7 | 9.6 | 12.0 | 10.2 | 8.6 | 5.5 | 4.2 |
| 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-SA1C-760-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 |
| 2.5° | 610.6 | 573.9 | 537.1 | 559.5 | 560.1 | 566.1 | 566.8 | 544.7 | 562.4 | 576.0 | 590.0 |
| 5° | 620.3 | 596.3 | 597.6 | 576.0 | 564.2 | 579.4 | 576.2 | 570.2 | 580.9 | 595.8 | 613.8 |
| 7.5° | 550.4 | 534.8 | 532.2 | 511.3 | 460.7 | 449.5 | 458.9 | 462.8 | 477.1 | 500.1 | 519.4 |
| 10° | 429.7 | 460.7 | 425.8 | 417.7 | 404.4 | 378.3 | 363.2 | 361.4 | 391.9 | 410.4 | 426.6 |
| 12.5° | 387.2 | 379.4 | 375.2 | 353.0 | 353.0 | 325.4 | 316.5 | 324.6 | 371.5 | 384.8 | 405.7 |
| 15° | 329.8 | 324.1 | 304.8 | 293.8 | 288.6 | 277.4 | 286.8 | 294.6 | 338.4 | 339.5 | 361.4 |
| 17.5° | 273.8 | 270.4 | 252.1 | 250.0 | 244.8 | 239.9 | 248.5 | 267.3 | 291.0 | 286.8 | 297.0 |
| 20° | 244.8 | 233.1 | 216.4 | 222.4 | 216.9 | 213.0 | 209.4 | 236.0 | 252.7 | 258.1 | 264.1 |
| 22.5° | 237.5 | 216.1 | 206.2 | 200.8 | 201.0 | 194.8 | 195.6 | 217.7 | 243.0 | 246.4 | 242.7 |
| 25° | 271.4 | 233.4 | 201.3 | 185.4 | 179.4 | 177.3 | 183.3 | 202.9 | 233.4 | 240.7 | 243.5 |
| 27.5° | 317.6 | 253.4 | 207.3 | 180.2 | 168.2 | 169.2 | 177.8 | 191.4 | 227.4 | 240.4 | 243.8 |
| 30° | 304.8 | 238.3 | 207.5 | 176.3 | 161.4 | 166.9 | 170.0 | 183.0 | 222.7 | 242.2 | 259.2 |
| 32.5° | 235.2 | 214.3 | 208.8 | 179.4 | 173.4 | 164.8 | 169.2 | 181.7 | 208.8 | 221.1 | 221.9 |
| 35° | 199.2 | 183.3 | 179.6 | 172.3 | 164.0 | 160.4 | 165.3 | 176.3 | 194.0 | 201.5 | 200.5 |
| 37.5° | 197.6 | 180.2 | 165.8 | 162.7 | 159.3 | 158.3 | 161.1 | 171.3 | 189.3 | 202.6 | 199.7 |
| 40° | 200.2 | 178.6 | 164.0 | 158.5 | 159.8 | 155.1 | 158.0 | 170.5 | 190.1 | 202.6 | 200.0 |
| 42.5° | 197.1 | 176.8 | 161.7 | 157.5 | 158.8 | 152.3 | 155.7 | 168.7 | 188.0 | 202.9 | 197.9 |
| 45° | 190.9 | 172.6 | 160.4 | 153.3 | 159.3 | 149.7 | 153.8 | 164.0 | 181.7 | 197.9 | 192.2 |
| 47.5° | 184.6 | 167.7 | 154.9 | 150.4 | 156.4 | 147.1 | 148.9 | 157.7 | 175.5 | 191.4 | 186.4 |
| 50° | 177.8 | 161.4 | 150.4 | 149.1 | 153.3 | 146.5 | 143.7 | 151.0 | 167.9 | 183.8 | 179.6 |
| 52.5° | 170.5 | 156.2 | 147.3 | 146.8 | 150.7 | 143.1 | 139.0 | 144.7 | 159.8 | 175.7 | 172.3 |
| 55° | 163.5 | 150.4 | 143.4 | 144.7 | 149.1 | 140.3 | 135.1 | 138.7 | 151.2 | 166.9 | 162.2 |
| 57.5° | 156.4 | 143.9 | 138.2 | 141.8 | 145.2 | 136.6 | 130.1 | 132.2 | 142.4 | 157.7 | 152.3 |
| 60° | 150.2 | 138.2 | 132.5 | 136.9 | 140.0 | 131.1 | 123.6 | 124.9 | 134.0 | 147.8 | 142.9 |
| 62.5° | 142.1 | 131.9 | 124.4 | 130.1 | 132.5 | 123.8 | 115.8 | 117.3 | 124.6 | 137.7 | 134.0 |
| 65° | 130.6 | 124.1 | 117.1 | 121.0 | 124.1 | 115.2 | 107.7 | 109.5 | 115.0 | 127.2 | 124.6 |
| 67.5° | 120.7 | 114.5 | 109.8 | 112.9 | 113.4 | 106.6 | 99.9 | 100.9 | 105.3 | 116.8 | 113.9 |
| 70° | 109.8 | 103.8 | 100.1 | 102.5 | 102.2 | 96.5 | 91.3 | 91.5 | 95.2 | 105.6 | 101.7 |
| 72.5° | 97.8 | 92.0 | 90.2 | 91.5 | 90.5 | 85.3 | 80.3 | 82.1 | 84.5 | 92.3 | 89.2 |
| 75° | 85.0 | 79.8 | 78.7 | 80.0 | 78.5 | 73.5 | 69.1 | 70.9 | 73.0 | 79.5 | 75.6 |
| 77.5° | 71.7 | 67.0 | 67.3 | 67.5 | 65.4 | 62.1 | 57.6 | 59.4 | 60.8 | 65.2 | 61.3 |
| 80° | 57.1 | 53.5 | 54.5 | 54.5 | 52.1 | 49.8 | 45.6 | 46.2 | 46.9 | 48.5 | 45.6 |
| 82.5° | 41.7 | 41.7 | 41.7 | 42.0 | 37.0 | 37.8 | 34.2 | 33.9 | 33.1 | 32.9 | 31.0 |
| 85° | 24.8 | 25.8 | 26.3 | 27.1 | 20.1 | 23.5 | 20.3 | 19.6 | 18.0 | 16.4 | 15.9 |
| 87.5° | 5.5 | 7.0 | 7.0 | 6.8 | 0.0 | 2.6 | 1.3 | 2.1 | 0.5 | 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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| 32.5° | 213.0 | 208.8 | 207.5 | 225.8 | 321.2 | 559.5 | 1159.0 | 2006.4 | 2138.0 | 2195.4 |
| 35° | 192.2 | 185.6 | 188.3 | 209.1 | 302.7 | 554.3 | 1212.7 | 2184.4 | 2371.9 | 2407.1 |
| 37.5° | 191.4 | 183.8 | 187.2 | 202.9 | 309.2 | 563.7 | 1298.7 | 2470.2 | 2784.4 | 2859.7 |
| 40° | 189.6 | 185.4 | 187.2 | 198.9 | 302.5 | 568.9 | 1348.3 | 2710.3 | 3071.7 | 3148.1 |
| 42.5° | 189.3 | 187.2 | 189.0 | 202.1 | 295.4 | 571.3 | 1416.8 | 2927.3 | 3374.4 | 3434.7 |
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| 50° | 180.2 | 190.3 | 214.8 | 198.7 | 277.4 | 561.9 | 1581.1 | 3323.1 | 3816.4 | 3877.1 |
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| 55° | 165.0 | 184.3 | 202.1 | 178.3 | 264.9 | 548.8 | 1817.8 | 3695.7 | 4183.0 | 4219.7 |
| 57.5° | 157.0 | 177.3 | 188.0 | 172.6 | 243.8 | 550.9 | 1917.4 | 3863.8 | 4357.4 | 4389.5 |
| 60° | 149.7 | 176.5 | 167.9 | 166.6 | 222.1 | 523.0 | 1949.8 | 3862.0 | 4422.3 | 4472.7 |
| 62.5° | 141.8 | 166.6 | 153.8 | 158.5 | 203.1 | 494.4 | 1881.2 | 3696.4 | 4352.2 | 4440.3 |
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| 67.5° | 119.7 | 126.5 | 130.9 | 143.4 | 210.2 | 411.4 | 1471.1 | 3053.2 | 3879.5 | 4017.4 |
| 70° | 107.4 | 114.2 | 119.2 | 131.1 | 216.1 | 394.8 | 1171.0 | 2559.9 | 3394.5 | 3534.5 |
| 72.5° | 94.9 | 101.9 | 105.9 | 116.3 | 208.1 | 359.0 | 866.7 | 1991.8 | 2724.7 | 2798.2 |
| 75° | 81.9 | 88.6 | 91.8 | 101.4 | 180.7 | 297.0 | 598.4 | 1508.6 | 1995.7 | 2070.2 |
| 77.5° | 68.6 | 75.9 | 76.9 | 84.7 | 137.9 | 227.1 | 383.5 | 1157.1 | 1413.2 | 1463.0 |
| 80° | 54.8 | 62.1 | 62.1 | 66.2 | 97.0 | 156.2 | 229.7 | 872.9 | 1029.1 | 1048.7 |
| 82.5° | 39.4 | 47.2 | 46.7 | 46.9 | 67.0 | 96.7 | 133.0 | 654.2 | 743.6 | 747.3 |
| 85° | 23.2 | 28.7 | 28.4 | 26.1 | 39.6 | 52.1 | 72.0 | 406.2 | 415.1 | 416.1 |
| 87.5° | 4.4 | 6.8 | 6.0 | 2.6 | 11.0 | 15.4 | 20.9 | 75.4 | 30.0 | 29.2 |
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