

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: P565349

Luminaire Tested: **MSA-SA1B-740-U-T1**

Issue Date: 8/19/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P565349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-334-1)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 8/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: MSA-SA1B-740-U-T1  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS.  
Light Source: -  
Ballast/Driver: -

**Summary**

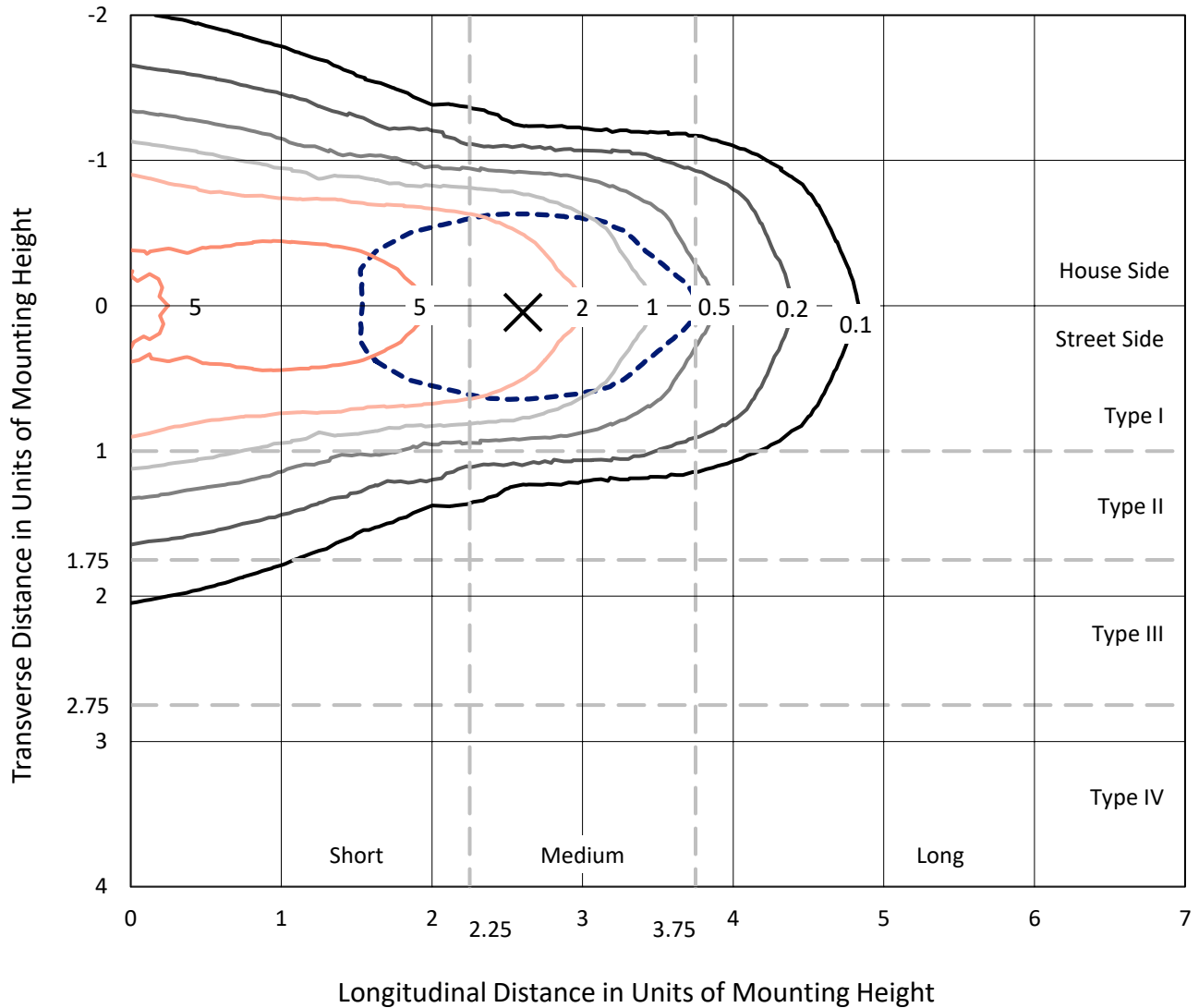
Lumens per Lamp: N/A  
Luminaire Lumens: 4579 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P565349  
 CATALOG NUMBER: MSA-SA1B-740-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

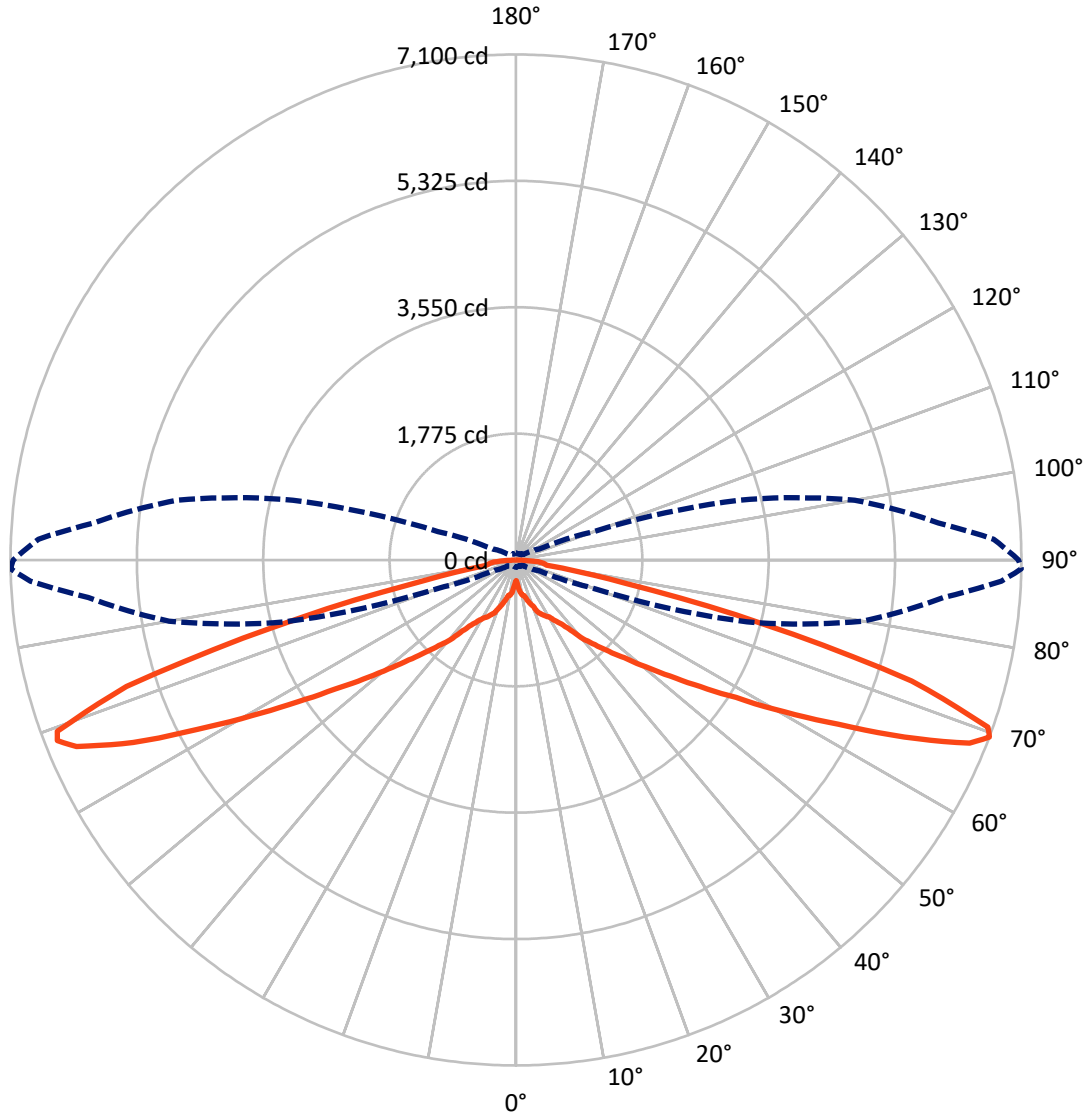
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc  
 Type I - Medium - N/A

REPORT NUMBER: P565349  
CATALOG NUMBER: MSA-SA1B-740-U-T1

### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P565349  
 CATALOG NUMBER: MSA-SA1B-740-U-T1

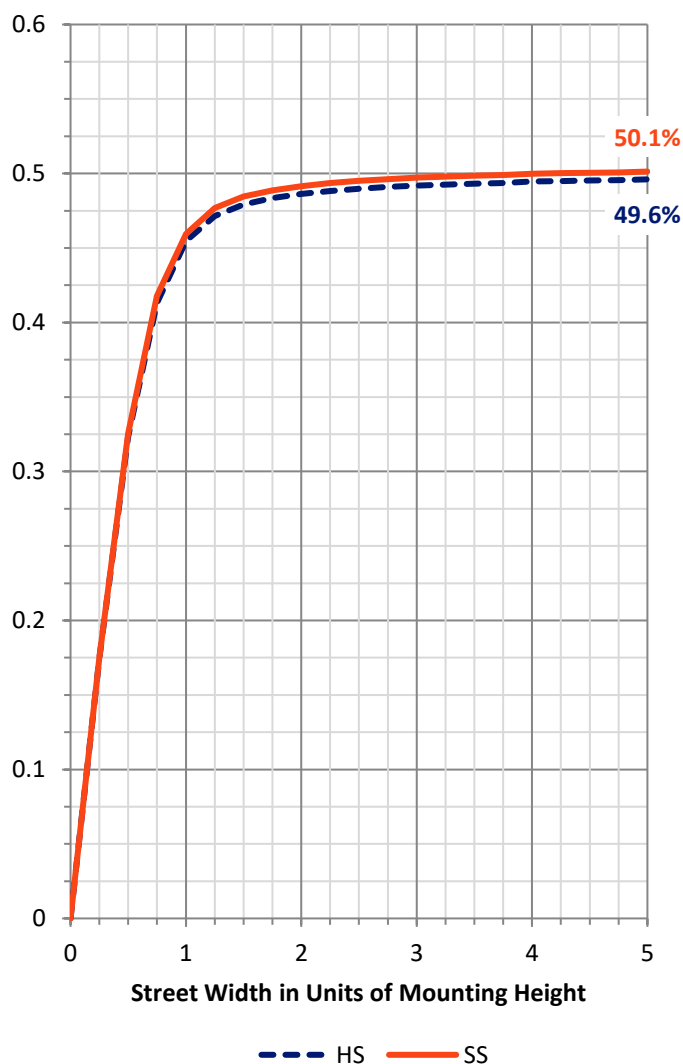
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2289.5   | 0.0    | 2289.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2289.5   | 0.0    | 2289.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4579.0   | 0.0    | 4579.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.4   | 0.8       |
| 10°-20°   | 167.9  | 3.7       |
| 20°-30°   | 335.0  | 7.3       |
| 30°-40°   | 506.6  | 11.1      |
| 40°-50°   | 735.4  | 16.1      |
| 50°-60°   | 966.2  | 21.1      |
| 60°-70°   | 1178.7 | 25.7      |
| 70°-80°   | 595.9  | 13.0      |
| 80°-90°   | 56.8   | 1.2       |
| 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°    | 4579.0 | 100.0     |
| 0°-180°   | 4579.0 | 100.0     |

**Coefficient of Utilization**

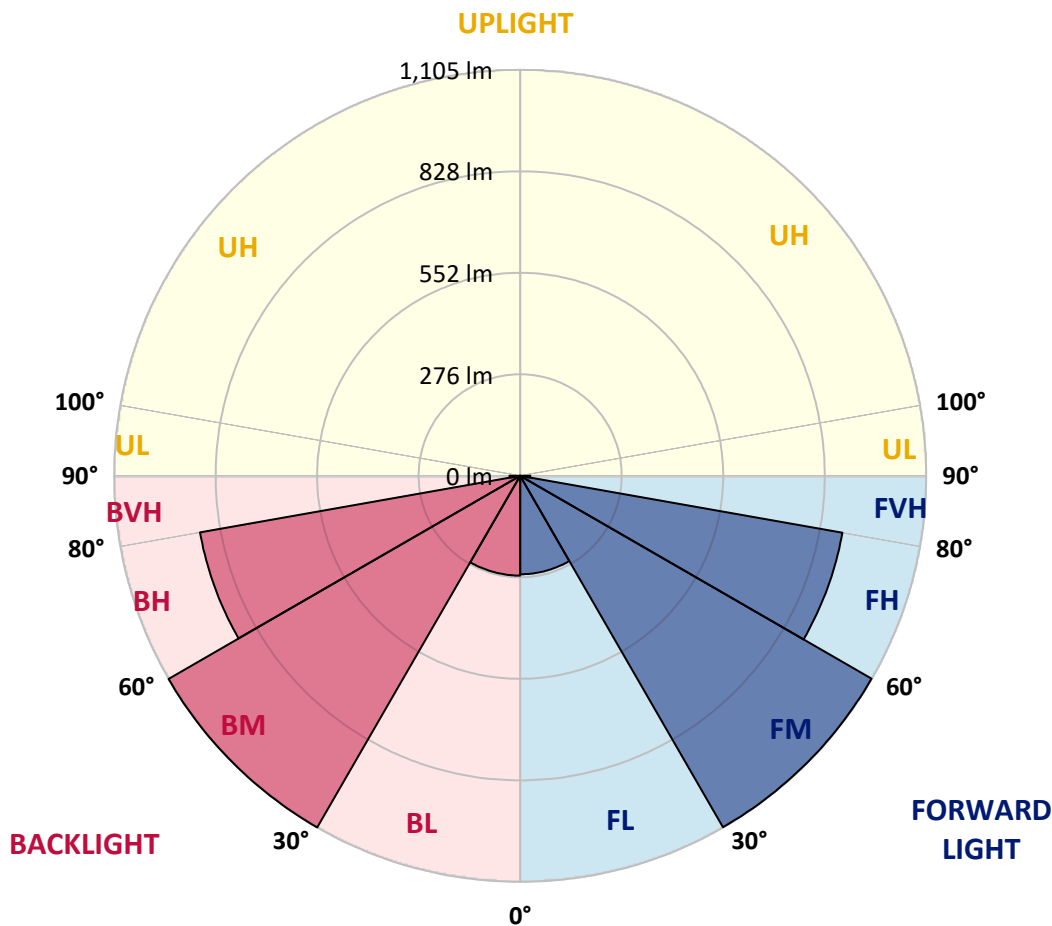


REPORT NUMBER: P565349  
 CATALOG NUMBER: MSA-SA1B-740-U-T1

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 267.8  | 5.8       |                         |      |         |
| FM (30°-60°)   | 1103.8 | 24.1      |                         |      |         |
| FH (60°-80°)   | 890.1  | 19.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 27.9   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 271.5  | 5.9       | B1/500                  |      |         |
| BM (30°-60°)   | 1104.5 | 24.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 884.4  | 19.3      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 28.9   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type I Medium





REPORT NUMBER: P565349  
 CATALOG NUMBER: MSA-SA1B-740-U-T1

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°    | 70°    | 75°    | 80°    |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0°    | 290.0 | 290.0 | 290.0 | 290.0 | 290.0 | 290.0 | 290.0 | 290.0  | 290.0  | 290.0  | 290.0  |
| 2.5°  | 340.4 | 301.1 | 297.7 | 288.3 | 295.2 | 297.7 | 291.7 | 283.2  | 292.6  | 297.7  | 288.3  |
| 5°    | 429.1 | 371.1 | 351.5 | 335.2 | 302.8 | 289.2 | 302.8 | 337.8  | 342.1  | 363.4  | 357.4  |
| 7.5°  | 472.6 | 463.2 | 438.5 | 384.7 | 332.7 | 303.7 | 340.4 | 390.7  | 416.3  | 436.8  | 458.1  |
| 10°   | 505.0 | 499.9 | 456.4 | 418.0 | 396.7 | 398.4 | 399.2 | 415.4  | 437.6  | 471.7  | 483.7  |
| 12.5° | 512.7 | 511.0 | 517.8 | 509.3 | 511.0 | 520.4 | 511.0 | 506.7  | 519.5  | 530.6  | 518.6  |
| 15°   | 562.2 | 561.3 | 563.9 | 565.6 | 599.7 | 614.2 | 599.7 | 586.9  | 577.5  | 568.1  | 587.7  |
| 17.5° | 596.3 | 592.0 | 592.9 | 609.1 | 647.5 | 687.6 | 679.9 | 662.8  | 641.5  | 654.3  | 670.5  |
| 20°   | 615.0 | 607.4 | 612.5 | 619.3 | 684.1 | 728.5 | 733.6 | 710.6  | 697.8  | 714.0  | 727.6  |
| 22.5° | 633.0 | 621.0 | 603.1 | 609.9 | 669.6 | 733.6 | 758.4 | 752.4  | 761.8  | 766.9  | 764.3  |
| 25°   | 611.6 | 619.3 | 599.7 | 619.3 | 679.9 | 738.7 | 788.2 | 823.2  | 824.0  | 821.5  | 840.2  |
| 27.5° | 598.8 | 592.9 | 559.6 | 609.9 | 660.3 | 696.9 | 823.2 | 882.0  | 900.0  | 845.4  | 882.0  |
| 30°   | 576.7 | 586.0 | 540.8 | 582.6 | 646.6 | 708.0 | 863.3 | 947.7  | 921.3  | 914.5  | 923.0  |
| 32.5° | 563.0 | 557.0 | 535.7 | 558.7 | 607.4 | 741.3 | 888.9 | 986.1  | 1019.4 | 1003.2 | 1001.5 |
| 35°   | 540.8 | 545.1 | 511.8 | 536.6 | 604.8 | 713.1 | 905.9 | 1082.5 | 1133.7 | 1120.9 | 1110.7 |
| 37.5° | 544.2 | 529.7 | 505.9 | 523.8 | 588.6 | 728.5 | 948.6 | 1175.5 | 1256.5 | 1263.4 | 1216.4 |
| 40°   | 518.6 | 510.1 | 474.3 | 504.1 | 557.9 | 719.1 | 958.8 | 1281.3 | 1418.6 | 1449.3 | 1381.9 |
| 42.5° | 482.0 | 470.9 | 450.4 | 483.7 | 540.0 | 673.0 | 973.3 | 1408.4 | 1583.2 | 1647.2 | 1585.8 |
| 45°   | 429.1 | 414.6 | 404.3 | 448.7 | 500.7 | 661.1 | 958.0 | 1514.1 | 1741.1 | 1828.9 | 1827.2 |
| 47.5° | 365.1 | 355.7 | 350.6 | 397.5 | 468.3 | 631.2 | 926.4 | 1580.7 | 1851.1 | 2076.3 | 2042.2 |
| 50°   | 292.6 | 285.8 | 284.9 | 334.4 | 413.7 | 569.8 | 890.6 | 1614.0 | 2018.3 | 2303.2 | 2333.1 |
| 52.5° | 234.6 | 229.5 | 228.6 | 268.7 | 346.3 | 487.1 | 815.5 | 1639.5 | 2177.8 | 2560.8 | 2714.4 |
| 55°   | 183.4 | 178.3 | 179.1 | 212.4 | 275.5 | 398.4 | 701.2 | 1610.5 | 2317.7 | 2824.4 | 3115.3 |
| 57.5° | 150.1 | 145.0 | 145.9 | 164.6 | 210.7 | 304.5 | 558.7 | 1547.4 | 2380.8 | 3150.3 | 3582.8 |
| 60°   | 132.2 | 127.1 | 124.5 | 133.1 | 162.1 | 229.5 | 415.4 | 1301.7 | 2391.1 | 3420.7 | 4090.3 |
| 62.5° | 122.8 | 117.7 | 115.2 | 117.7 | 133.9 | 175.7 | 299.4 | 1031.3 | 2332.2 | 3651.9 | 4555.2 |
| 65°   | 114.3 | 110.0 | 106.6 | 109.2 | 117.7 | 139.9 | 218.4 | 706.3  | 2024.3 | 3757.6 | 4893.0 |
| 67.5° | 104.9 | 101.5 | 98.1  | 101.5 | 107.5 | 117.7 | 169.8 | 447.0  | 1517.6 | 3620.3 | 5033.8 |
| 69°   | 99.8  | 94.7  | 93.0  | 95.5  | 101.5 | 108.3 | 146.7 | 356.6  | 1154.2 | 3359.3 | 4948.5 |
| 70°   | 94.7  | 91.3  | 88.7  | 93.0  | 98.1  | 103.2 | 132.2 | 302.8  | 905.1  | 3024.0 | 4736.9 |
| 72.5° | 83.6  | 81.0  | 79.3  | 83.6  | 87.9  | 91.3  | 108.3 | 215.8  | 524.6  | 2059.2 | 3756.8 |
| 75°   | 73.4  | 70.8  | 69.9  | 73.4  | 76.8  | 78.5  | 91.3  | 148.4  | 309.7  | 1077.4 | 2253.7 |
| 77.5° | 61.4  | 58.0  | 58.9  | 63.1  | 65.7  | 66.5  | 76.8  | 106.6  | 182.6  | 487.9  | 1044.1 |
| 80°   | 45.2  | 45.2  | 48.6  | 52.0  | 52.0  | 52.0  | 61.4  | 77.6   | 110.9  | 224.3  | 433.3  |
| 82.5° | 31.6  | 32.4  | 33.3  | 38.4  | 39.2  | 35.8  | 46.9  | 56.3   | 69.1   | 98.1   | 150.1  |
| 85°   | 17.9  | 18.8  | 19.6  | 23.0  | 23.9  | 21.3  | 30.7  | 35.8   | 40.1   | 48.6   | 78.5   |
| 87.5° | 6.8   | 7.7   | 10.2  | 11.9  | 12.8  | 9.4   | 14.5  | 17.1   | 17.1   | 20.5   | 35.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P565349

CATALOG NUMBER: MSA-SA1B-740-U-T1

**CANDELA DISTRIBUTION (continued):**

|       | 85°    | 87.5°  | 89°    | 90°    | 92.5°  | 95°    | 100°   | 105°   | 110°   | 115°   | 125°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0 |
| 2.5°  | 307.9  | 313.9  | 325.0  | 327.6  | 318.2  | 307.9  | 284.9  | 299.4  | 305.4  | 294.3  | 297.7 |
| 5°    | 381.3  | 394.1  | 407.8  | 391.5  | 381.3  | 374.5  | 363.4  | 364.2  | 358.3  | 338.7  | 306.2 |
| 7.5°  | 464.1  | 449.6  | 459.8  | 470.9  | 454.7  | 455.5  | 465.8  | 444.4  | 428.2  | 395.0  | 334.4 |
| 10°   | 502.4  | 502.4  | 505.0  | 505.0  | 498.2  | 498.2  | 497.3  | 463.2  | 443.6  | 429.1  | 412.0 |
| 12.5° | 505.0  | 504.1  | 514.4  | 506.7  | 508.4  | 510.1  | 514.4  | 529.7  | 524.6  | 505.9  | 521.2 |
| 15°   | 575.8  | 572.4  | 575.8  | 574.9  | 577.5  | 585.2  | 581.8  | 578.4  | 579.2  | 592.9  | 615.9 |
| 17.5° | 642.3  | 644.0  | 640.6  | 646.6  | 646.6  | 651.7  | 663.7  | 651.7  | 641.5  | 667.1  | 685.0 |
| 20°   | 719.1  | 713.1  | 699.5  | 709.7  | 712.3  | 713.1  | 732.8  | 718.3  | 703.8  | 713.1  | 734.5 |
| 22.5° | 796.7  | 795.9  | 797.6  | 798.4  | 801.9  | 789.1  | 762.6  | 758.4  | 767.7  | 754.9  | 757.5 |
| 25°   | 844.5  | 845.4  | 849.6  | 850.5  | 836.0  | 849.6  | 859.0  | 830.9  | 830.9  | 828.3  | 811.2 |
| 27.5° | 902.5  | 889.7  | 894.8  | 901.7  | 895.7  | 899.1  | 888.0  | 847.1  | 890.6  | 896.5  | 828.3 |
| 30°   | 941.8  | 935.8  | 929.8  | 936.6  | 942.6  | 958.0  | 926.4  | 922.1  | 925.5  | 957.1  | 867.5 |
| 32.5° | 1024.5 | 1033.0 | 1021.9 | 1010.9 | 1021.9 | 1018.5 | 1004.9 | 998.9  | 1041.6 | 999.8  | 894.8 |
| 35°   | 1101.3 | 1104.7 | 1105.5 | 1103.8 | 1110.7 | 1098.7 | 1098.7 | 1120.9 | 1133.7 | 1088.5 | 903.4 |
| 37.5° | 1286.4 | 1274.4 | 1249.7 | 1237.8 | 1259.1 | 1277.0 | 1224.1 | 1250.6 | 1245.4 | 1168.7 | 967.3 |
| 40°   | 1419.5 | 1446.8 | 1454.4 | 1451.0 | 1454.4 | 1403.3 | 1414.3 | 1434.0 | 1410.9 | 1283.8 | 945.2 |
| 42.5° | 1614.0 | 1631.0 | 1625.0 | 1617.4 | 1620.8 | 1611.4 | 1578.1 | 1650.6 | 1567.9 | 1412.6 | 979.3 |
| 45°   | 1791.4 | 1829.8 | 1832.3 | 1805.9 | 1827.2 | 1793.9 | 1807.6 | 1833.2 | 1749.6 | 1509.0 | 969.9 |
| 47.5° | 2002.9 | 2082.3 | 2052.4 | 2052.4 | 2073.7 | 2002.1 | 2034.5 | 2068.6 | 1846.8 | 1573.9 | 918.7 |
| 50°   | 2316.0 | 2358.7 | 2357.0 | 2349.3 | 2358.7 | 2320.3 | 2315.2 | 2310.9 | 1996.1 | 1635.3 | 887.2 |
| 52.5° | 2670.0 | 2728.0 | 2705.8 | 2714.4 | 2727.2 | 2654.7 | 2711.8 | 2555.7 | 2182.9 | 1658.3 | 815.5 |
| 55°   | 3122.1 | 3162.2 | 3140.0 | 3096.5 | 3154.5 | 3108.5 | 3127.2 | 2822.7 | 2312.6 | 1592.6 | 696.1 |
| 57.5° | 3660.4 | 3680.9 | 3644.2 | 3639.9 | 3678.3 | 3628.8 | 3597.3 | 3123.0 | 2380.0 | 1543.2 | 556.2 |
| 60°   | 4289.1 | 4353.1 | 4330.0 | 4293.4 | 4328.3 | 4284.8 | 4046.0 | 3378.0 | 2366.3 | 1312.0 | 430.8 |
| 62.5° | 5043.2 | 5108.0 | 5082.4 | 5057.7 | 5079.9 | 4966.4 | 4467.4 | 3579.4 | 2304.9 | 1039.9 | 314.8 |
| 65°   | 5665.9 | 5958.5 | 5996.9 | 5997.7 | 5890.2 | 5627.5 | 4803.5 | 3657.8 | 1980.8 | 725.9  | 230.3 |
| 67.5° | 6075.4 | 6683.6 | 6872.9 | 6804.7 | 6558.2 | 5958.5 | 4939.1 | 3504.3 | 1529.5 | 458.9  | 172.3 |
| 69°   | 6028.4 | 6826.0 | 7099.9 | 7061.5 | 6715.1 | 5953.4 | 4833.3 | 3245.8 | 1168.7 | 365.1  | 145.9 |
| 70°   | 5811.8 | 6709.2 | 7034.2 | 7051.2 | 6615.3 | 5724.8 | 4644.8 | 2949.0 | 945.2  | 311.4  | 133.9 |
| 72.5° | 4638.0 | 5528.6 | 5814.3 | 5926.1 | 5493.6 | 4584.2 | 3808.8 | 2080.6 | 547.7  | 217.5  | 108.3 |
| 75°   | 2873.0 | 3352.4 | 3589.6 | 3654.4 | 3392.5 | 2855.1 | 2311.7 | 1157.6 | 333.5  | 153.5  | 91.3  |
| 77.5° | 1288.1 | 1427.1 | 1563.6 | 1563.6 | 1461.3 | 1303.4 | 1059.5 | 559.6  | 189.4  | 109.2  | 76.8  |
| 80°   | 431.6  | 447.8  | 435.9  | 440.2  | 423.1  | 406.9  | 425.7  | 241.4  | 116.9  | 81.9   | 62.3  |
| 82.5° | 293.4  | 368.5  | 391.5  | 391.5  | 367.7  | 290.0  | 163.8  | 110.9  | 71.7   | 58.9   | 47.8  |
| 85°   | 238.9  | 291.7  | 313.1  | 322.4  | 303.7  | 244.8  | 86.2   | 53.7   | 42.7   | 37.5   | 32.4  |
| 87.5° | 80.2   | 75.1   | 70.8   | 69.1   | 72.5   | 75.9   | 42.7   | 23.0   | 19.6   | 17.9   | 17.1  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |





REPORT NUMBER: P565349  
 CATALOG NUMBER: MSA-SA1B-740-U-T1

**CANDELA DISTRIBUTION (continued):**

|       | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 290.0 | 290.0 | 290.0 | 290.0 | 290.0 | 290.0 |
| 2.5°  | 303.7 | 293.4 | 297.7 | 302.0 | 332.7 | 355.7 |
| 5°    | 302.0 | 316.5 | 348.9 | 389.8 | 408.6 | 454.7 |
| 7.5°  | 310.5 | 363.4 | 424.0 | 466.6 | 483.7 | 498.2 |
| 10°   | 415.4 | 424.8 | 445.3 | 486.2 | 520.4 | 526.3 |
| 12.5° | 536.6 | 534.0 | 519.5 | 538.3 | 521.2 | 533.2 |
| 15°   | 631.2 | 603.1 | 583.5 | 580.9 | 574.9 | 574.9 |
| 17.5° | 683.3 | 658.5 | 631.2 | 624.4 | 606.5 | 621.0 |
| 20°   | 744.7 | 702.1 | 633.8 | 627.0 | 621.0 | 607.4 |
| 22.5° | 732.8 | 690.1 | 619.3 | 610.8 | 642.3 | 640.6 |
| 25°   | 747.3 | 690.1 | 622.7 | 613.3 | 627.8 | 627.8 |
| 27.5° | 711.4 | 664.5 | 615.9 | 559.6 | 604.0 | 614.2 |
| 30°   | 702.1 | 649.2 | 592.9 | 542.5 | 587.7 | 578.4 |
| 32.5° | 751.5 | 610.8 | 555.3 | 540.0 | 573.2 | 566.4 |
| 35°   | 713.1 | 604.0 | 545.9 | 517.8 | 557.0 | 550.2 |
| 37.5° | 729.3 | 595.4 | 529.7 | 505.9 | 537.4 | 547.7 |
| 40°   | 725.9 | 555.3 | 511.0 | 480.3 | 511.8 | 516.9 |
| 42.5° | 668.8 | 524.6 | 479.4 | 448.7 | 464.9 | 482.0 |
| 45°   | 651.7 | 505.9 | 448.7 | 406.0 | 406.9 | 426.5 |
| 47.5° | 620.2 | 463.2 | 392.4 | 353.2 | 353.2 | 369.4 |
| 50°   | 567.3 | 406.0 | 328.4 | 292.6 | 291.7 | 304.5 |
| 52.5° | 488.8 | 350.6 | 277.2 | 238.0 | 235.4 | 248.2 |
| 55°   | 400.1 | 282.4 | 218.4 | 192.8 | 187.7 | 192.8 |
| 57.5° | 311.4 | 220.1 | 172.3 | 151.8 | 151.0 | 155.3 |
| 60°   | 241.4 | 172.3 | 137.3 | 125.4 | 127.1 | 133.9 |
| 62.5° | 182.6 | 137.3 | 116.9 | 112.6 | 115.2 | 122.0 |
| 65°   | 145.0 | 118.6 | 106.6 | 104.1 | 106.6 | 113.5 |
| 67.5° | 117.7 | 107.5 | 99.0  | 95.5  | 97.2  | 104.1 |
| 69°   | 108.3 | 101.5 | 94.7  | 90.4  | 92.1  | 97.2  |
| 70°   | 103.2 | 98.1  | 91.3  | 87.0  | 88.7  | 93.8  |
| 72.5° | 90.4  | 87.9  | 82.7  | 78.5  | 79.3  | 83.6  |
| 75°   | 79.3  | 77.6  | 74.2  | 69.1  | 69.1  | 74.2  |
| 77.5° | 66.5  | 67.4  | 64.0  | 58.9  | 58.0  | 60.6  |
| 80°   | 52.9  | 54.6  | 52.9  | 47.8  | 46.1  | 46.1  |
| 82.5° | 38.4  | 41.8  | 40.1  | 35.0  | 34.1  | 34.1  |
| 85°   | 23.9  | 26.4  | 25.6  | 22.2  | 22.2  | 19.6  |
| 87.5° | 11.1  | 14.5  | 13.6  | 11.9  | 11.1  | 7.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)