

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: P596288

Luminaire Tested: **MSA-SA2D-722-U-SLL**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2D-722-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: 8494 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

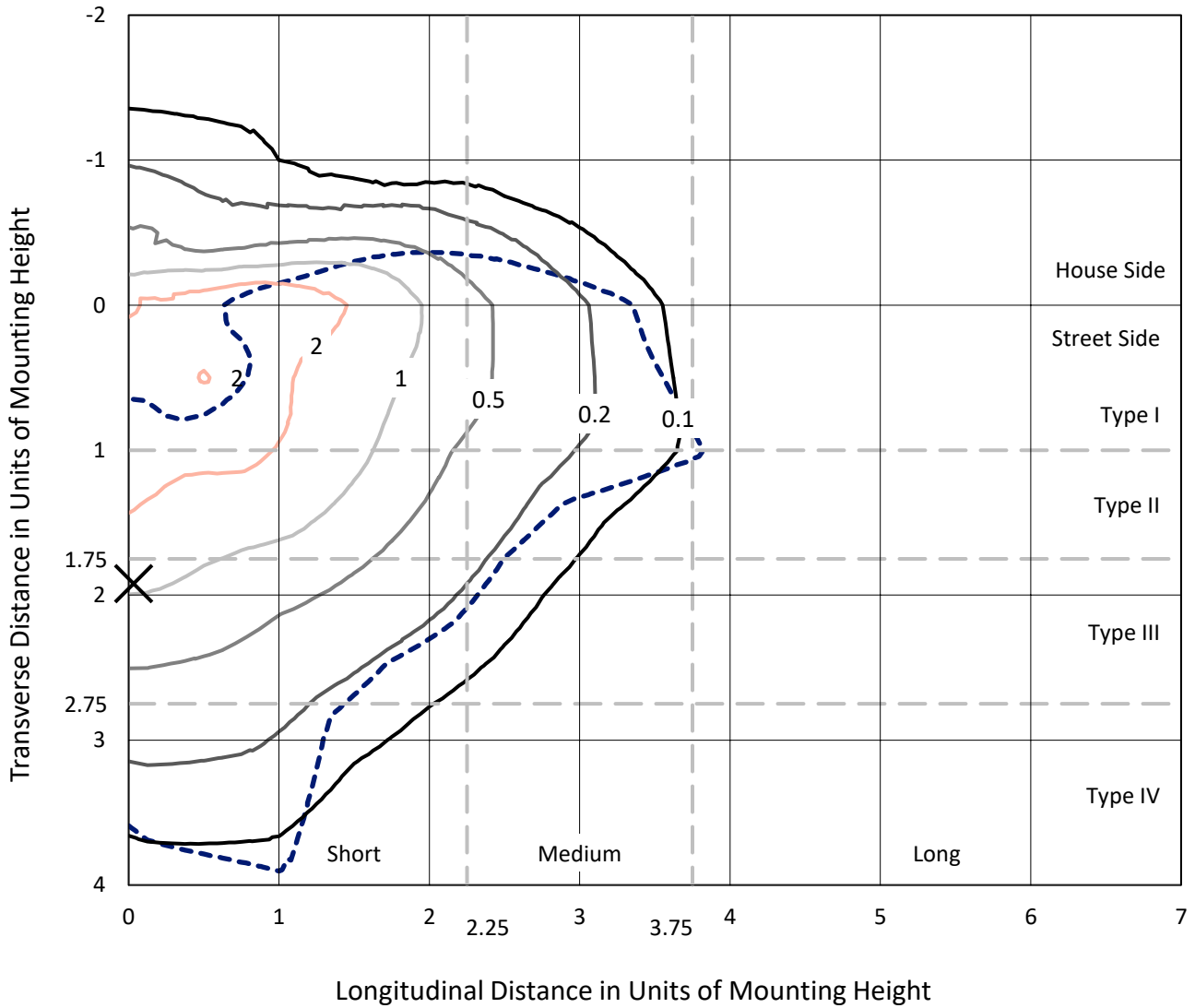
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P596288
 CATALOG NUMBER: MSA-SA2D-722-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

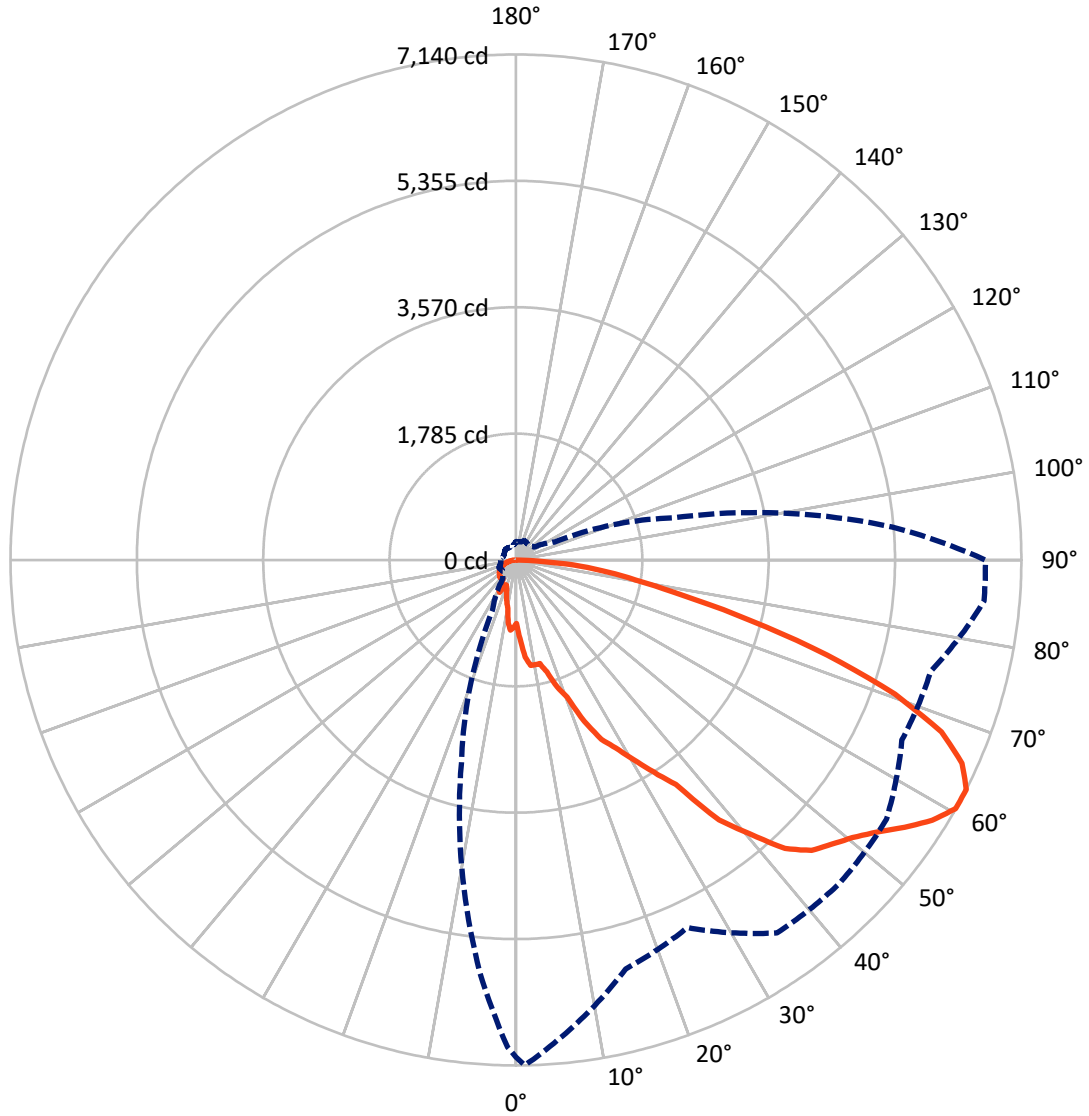
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P596288
CATALOG NUMBER: MSA-SA2D-722-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 1-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P596288

CATALOG NUMBER: MSA-SA2D-722-U-SLL

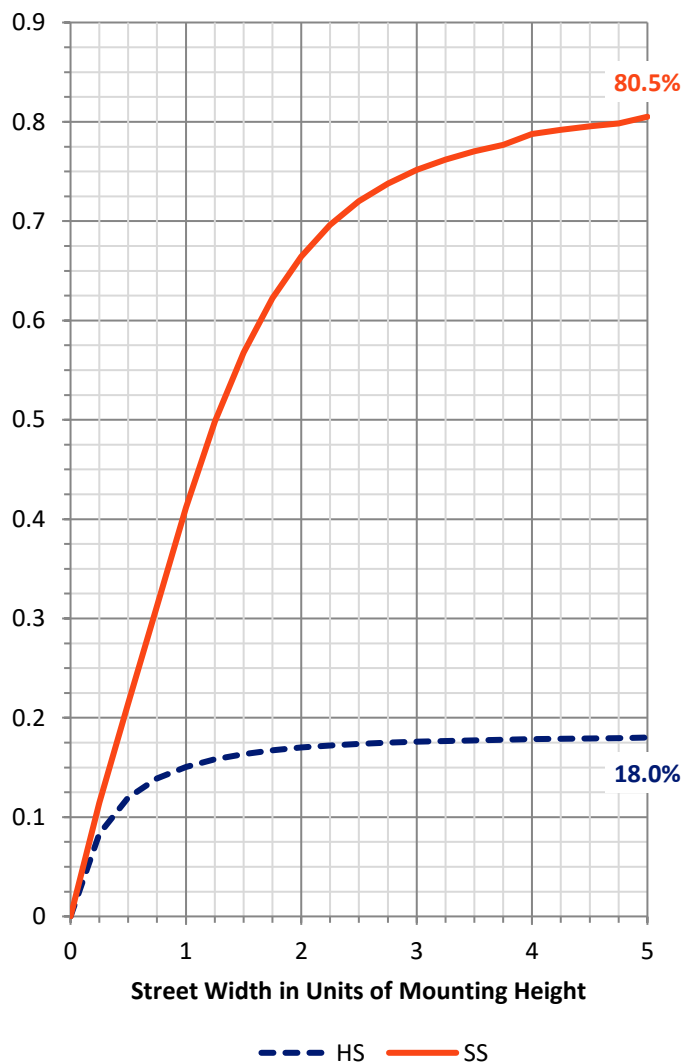
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1546.7 | 0.0 | 1546.7 |
| | % Fixture | 18.2 | 0.0 | 18.2 |
| Street Side | Lumens | 6947.3 | 0.0 | 6947.3 |
| | % Fixture | 81.8 | 0.0 | 81.8 |
| Total | Lumens | 8494.0 | 0.0 | 8494.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.7 | 1.2 |
| 10°-20° | 298.4 | 3.5 |
| 20°-30° | 526.8 | 6.2 |
| 30°-40° | 820.5 | 9.7 |
| 40°-50° | 1351.1 | 15.9 |
| 50°-60° | 1928.3 | 22.7 |
| 60°-70° | 2044.8 | 24.1 |
| 70°-80° | 1129.4 | 13.3 |
| 80°-90° | 292.1 | 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° | 8494.0 | 100.0 |
| 0°-180° | 8494.0 | 100.0 |

Coefficient of Utilization



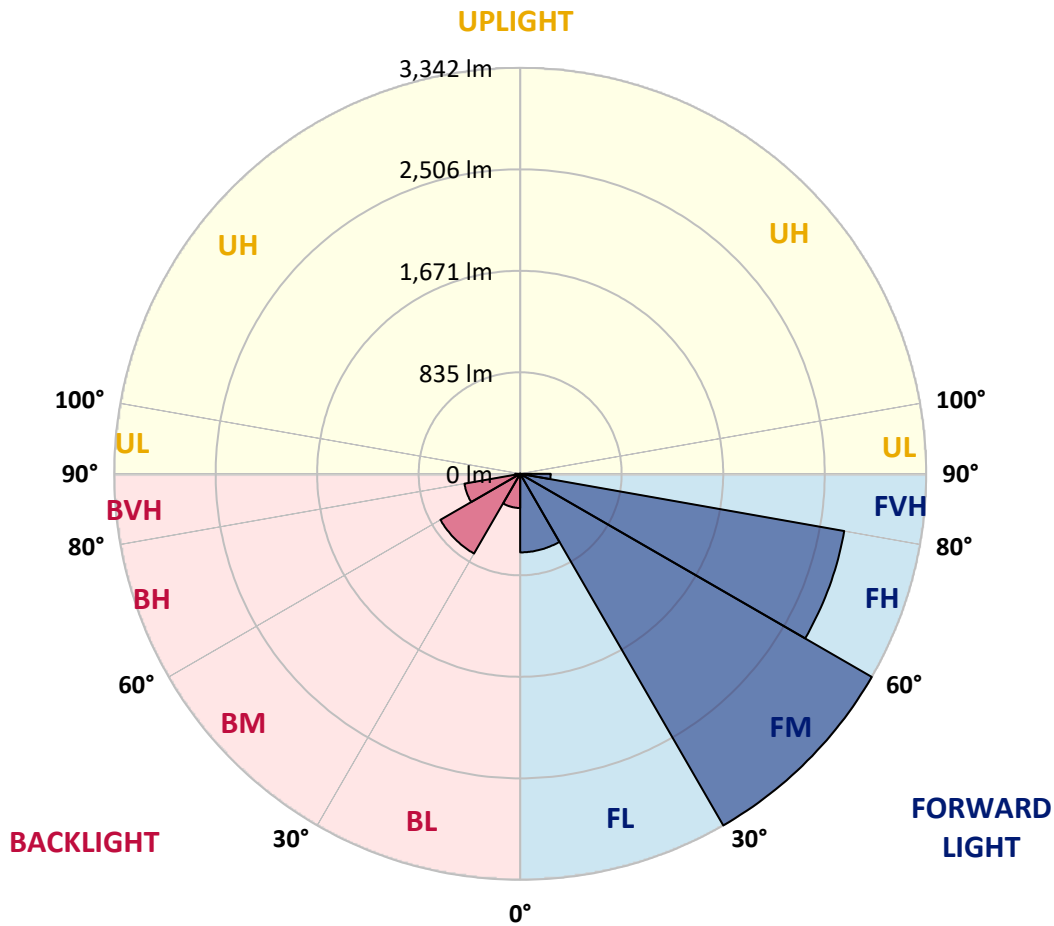
REPORT NUMBER: P596288
 CATALOG NUMBER: MSA-SA2D-722-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 646.5 | 7.6 | | | |
| FM (30°-60°) | 3341.6 | 39.3 | | | |
| FH (60°-80°) | 2708.2 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 250.9 | 3.0 | | | G3/500 |
| BL (0°-30°) | 281.3 | 3.3 | B1/500 | | |
| BM (30°-60°) | 758.2 | 8.9 | B1/1000 | | |
| BH (60°-80°) | 466.0 | 5.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 41.2 | 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-G3

Type IV Short





REPORT NUMBER: P596288
 CATALOG NUMBER: MSA-SA2D-722-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 |
| 2.5° | 1101.4 | 1110.8 | 1091.5 | 1069.6 | 979.4 | 1066.3 | 1040.4 | 1088.6 | 1072.9 | 968.2 | 1159.9 |
| 5° | 1361.0 | 1378.4 | 1359.4 | 1424.9 | 1429.1 | 1446.0 | 1289.7 | 1387.0 | 1353.2 | 1344.6 | 1441.4 |
| 7.5° | 1486.3 | 1504.1 | 1552.3 | 1668.9 | 1760.0 | 1677.6 | 1586.5 | 1566.3 | 1539.9 | 1471.1 | 1529.6 |
| 10° | 1494.2 | 1504.1 | 1568.8 | 1816.1 | 1860.2 | 1918.7 | 1859.8 | 1720.9 | 1663.6 | 1514.0 | 1469.4 |
| 12.5° | 1470.7 | 1501.6 | 1585.3 | 1886.6 | 2017.7 | 2081.5 | 2096.0 | 1941.4 | 1800.8 | 1630.2 | 1607.5 |
| 15° | 1628.6 | 1639.7 | 1759.6 | 1936.9 | 2027.1 | 2081.1 | 2128.1 | 2032.9 | 1988.8 | 1853.6 | 1671.8 |
| 17.5° | 1854.8 | 1885.8 | 1983.9 | 2049.4 | 2110.4 | 2120.7 | 2082.0 | 2044.9 | 1974.8 | 2155.3 | 1962.0 |
| 20° | 2008.2 | 2067.9 | 2188.3 | 2200.7 | 2072.5 | 2095.1 | 2089.8 | 2092.3 | 2052.3 | 2386.2 | 2279.8 |
| 22.5° | 2413.8 | 2478.5 | 2495.0 | 2423.3 | 2181.7 | 2078.3 | 2098.9 | 2158.6 | 2316.1 | 2602.1 | 2722.5 |
| 25° | 2781.0 | 2806.2 | 2956.6 | 2772.0 | 2387.0 | 2161.5 | 2127.7 | 2282.3 | 2539.1 | 2965.7 | 3051.4 |
| 27.5° | 2972.7 | 3005.3 | 3105.4 | 2703.5 | 2412.5 | 2054.3 | 1975.2 | 2210.6 | 2472.3 | 2794.6 | 3171.0 |
| 30° | 3217.9 | 3269.9 | 3406.3 | 2772.0 | 2489.6 | 2124.4 | 1949.2 | 2174.3 | 2463.6 | 2906.7 | 3424.0 |
| 32.5° | 3470.6 | 3571.6 | 3673.0 | 3013.1 | 2478.9 | 2231.6 | 2115.3 | 2133.5 | 2542.0 | 3141.7 | 3686.2 |
| 35° | 3805.3 | 3894.3 | 3981.7 | 3152.4 | 2694.9 | 2321.0 | 2205.6 | 2397.7 | 2743.1 | 3414.2 | 4051.8 |
| 37.5° | 4520.9 | 4661.8 | 4431.4 | 3548.9 | 2929.8 | 2724.1 | 2516.0 | 2629.8 | 2955.8 | 3641.3 | 4649.1 |
| 40° | 4976.8 | 5082.7 | 4860.1 | 3818.9 | 3343.7 | 2995.8 | 2961.6 | 2971.0 | 3248.9 | 3835.8 | 5050.9 |
| 42.5° | 5429.7 | 5573.2 | 5219.1 | 4189.5 | 3844.1 | 3556.8 | 3380.4 | 3368.4 | 3577.0 | 4185.4 | 5508.1 |
| 45° | 5767.7 | 5852.2 | 5342.4 | 4501.9 | 4380.7 | 4167.6 | 4035.3 | 3825.5 | 4008.1 | 4427.3 | 5790.8 |
| 47.5° | 5928.5 | 5997.3 | 5540.6 | 4683.7 | 4728.6 | 4739.7 | 4978.4 | 4620.6 | 4384.9 | 4590.9 | 5939.2 |
| 50° | 6129.2 | 6161.8 | 5657.3 | 4843.6 | 5059.2 | 5548.0 | 5605.3 | 4999.0 | 4751.7 | 4769.4 | 6027.0 |
| 52.5° | 6369.1 | 6382.7 | 5827.5 | 5028.3 | 5393.5 | 6079.8 | 5991.1 | 5640.4 | 5100.8 | 5095.5 | 6192.3 |
| 55° | 6670.8 | 6662.6 | 6041.0 | 5276.8 | 5632.1 | 6395.9 | 6328.7 | 6073.2 | 5481.3 | 5365.4 | 6449.5 |
| 57.5° | 6939.2 | 6934.2 | 6324.2 | 5505.6 | 5832.9 | 6558.3 | 6578.1 | 6510.5 | 5740.1 | 5558.8 | 6728.1 |
| 60° | 7070.7 | 7133.7 | 6646.5 | 5755.8 | 5845.6 | 6631.7 | 6639.1 | 6531.5 | 6029.5 | 5806.9 | 6802.3 |
| 62.5° | 7019.6 | 7139.5 | 6804.8 | 5980.8 | 5728.2 | 6431.4 | 6462.3 | 6388.1 | 6016.3 | 6067.4 | 6636.6 |
| 65° | 6787.1 | 6925.6 | 6667.5 | 6100.8 | 5656.0 | 6095.8 | 6103.7 | 5916.1 | 5827.9 | 6240.1 | 6248.4 |
| 67.5° | 6351.0 | 6480.8 | 6230.6 | 5909.5 | 5162.2 | 5191.5 | 5366.3 | 5381.5 | 5252.9 | 6109.9 | 5703.0 |
| 70° | 5587.6 | 5679.1 | 5522.5 | 5437.2 | 4314.8 | 4143.3 | 4332.9 | 4414.1 | 4472.6 | 5639.6 | 5048.5 |
| 72.5° | 4423.6 | 4600.4 | 4625.2 | 4680.8 | 3473.9 | 3188.3 | 3328.8 | 3208.5 | 3589.7 | 4799.9 | 4124.8 |
| 75° | 3272.8 | 3422.0 | 3582.3 | 3892.7 | 2738.2 | 2387.0 | 2369.7 | 2308.3 | 2664.4 | 3860.1 | 3059.3 |
| 77.5° | 2312.8 | 2408.0 | 2531.2 | 3109.5 | 2066.3 | 1838.4 | 1849.1 | 1786.8 | 1924.1 | 2917.5 | 2113.3 |
| 80° | 1657.8 | 1707.7 | 1765.0 | 2048.6 | 1524.3 | 1586.1 | 1587.7 | 1528.8 | 1430.7 | 1981.4 | 1410.5 |
| 82.5° | 1181.3 | 1220.1 | 1285.6 | 1351.2 | 1136.4 | 1300.0 | 1298.8 | 1295.1 | 1134.3 | 1339.2 | 882.5 |
| 85° | 657.9 | 709.8 | 823.6 | 1058.5 | 820.7 | 929.5 | 817.4 | 900.2 | 832.6 | 891.6 | 446.8 |
| 87.5° | 46.2 | 41.2 | 184.2 | 613.3 | 382.9 | 279.9 | 146.7 | 290.6 | 372.6 | 465.8 | 62.2 |
| 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: P596288
 CATALOG NUMBER: MSA-SA2D-722-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|
| 0° | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 |
| 2.5° | 1199.5 | 1213.9 | 1157.4 | 1072.5 | 1095.6 | 1070.5 | 1038.7 | 989.3 | 887.4 | 950.5 | 950.9 |
| 5° | 1440.6 | 1385.8 | 1341.7 | 1300.0 | 1230.0 | 1124.0 | 1110.0 | 1025.1 | 977.3 | 1002.4 | 998.7 |
| 7.5° | 1516.0 | 1438.1 | 1371.8 | 1223.0 | 1093.1 | 928.7 | 879.2 | 828.9 | 807.9 | 868.9 | 893.2 |
| 10° | 1433.2 | 1352.0 | 1286.8 | 1105.9 | 1017.7 | 915.1 | 779.0 | 709.4 | 668.2 | 684.2 | 693.7 |
| 12.5° | 1500.0 | 1417.1 | 1212.2 | 1111.3 | 965.8 | 903.1 | 784.0 | 681.8 | 620.8 | 635.6 | 617.9 |
| 15° | 1564.3 | 1452.5 | 1247.7 | 1046.5 | 928.7 | 838.0 | 741.5 | 636.0 | 564.3 | 538.7 | 525.1 |
| 17.5° | 1799.2 | 1613.7 | 1243.6 | 1010.3 | 875.1 | 770.8 | 654.6 | 539.1 | 491.3 | 464.9 | 442.3 |
| 20° | 2085.7 | 1827.2 | 1265.8 | 972.8 | 818.2 | 686.7 | 560.2 | 453.0 | 419.6 | 402.3 | 396.1 |
| 22.5° | 2426.5 | 2100.9 | 1393.2 | 967.4 | 764.6 | 625.3 | 508.2 | 441.5 | 403.9 | 385.0 | 377.2 |
| 25° | 2697.4 | 2384.1 | 1487.2 | 1003.7 | 761.7 | 574.6 | 476.9 | 490.5 | 473.2 | 479.0 | 433.2 |
| 27.5° | 2960.3 | 2461.2 | 1434.4 | 987.6 | 685.1 | 484.7 | 469.5 | 497.9 | 512.8 | 517.3 | 515.6 |
| 30° | 3182.5 | 2786.8 | 1446.0 | 896.9 | 578.7 | 394.9 | 359.4 | 373.4 | 414.2 | 479.0 | 491.3 |
| 32.5° | 3507.7 | 2942.6 | 1544.5 | 842.1 | 517.3 | 353.2 | 313.7 | 308.3 | 317.8 | 341.3 | 361.5 |
| 35° | 3888.2 | 3301.2 | 1572.1 | 827.7 | 474.8 | 334.7 | 307.1 | 294.7 | 299.7 | 317.4 | 321.5 |
| 37.5° | 4597.5 | 3562.5 | 1674.3 | 809.9 | 459.2 | 323.6 | 302.1 | 297.6 | 308.3 | 322.7 | 331.0 |
| 40° | 4988.7 | 4032.4 | 1679.3 | 794.7 | 439.0 | 319.0 | 305.4 | 303.4 | 310.0 | 329.8 | 334.7 |
| 42.5° | 5510.1 | 4300.4 | 1756.7 | 777.0 | 432.0 | 325.2 | 312.0 | 311.2 | 317.0 | 328.5 | 337.6 |
| 45° | 5827.9 | 4479.7 | 1760.9 | 766.7 | 430.3 | 352.4 | 320.7 | 317.8 | 316.6 | 323.6 | 331.8 |
| 47.5° | 6032.8 | 4738.1 | 1811.2 | 755.1 | 440.2 | 359.4 | 331.0 | 318.6 | 314.5 | 317.4 | 323.6 |
| 50° | 6226.9 | 4944.6 | 1906.4 | 753.5 | 450.5 | 352.4 | 349.1 | 318.2 | 310.0 | 308.7 | 313.3 |
| 52.5° | 6465.2 | 5284.2 | 2023.8 | 769.1 | 448.0 | 342.1 | 362.7 | 316.6 | 301.7 | 298.8 | 303.4 |
| 55° | 6811.8 | 5648.2 | 2148.7 | 756.0 | 422.5 | 322.3 | 349.5 | 315.3 | 293.1 | 287.7 | 291.8 |
| 57.5° | 7036.5 | 5856.8 | 2288.5 | 744.8 | 383.7 | 307.5 | 337.6 | 316.1 | 293.9 | 281.9 | 284.4 |
| 60° | 6961.8 | 5744.7 | 2343.3 | 676.8 | 347.1 | 296.0 | 309.1 | 309.6 | 286.5 | 275.3 | 277.4 |
| 62.5° | 6632.1 | 5338.7 | 2292.2 | 597.7 | 319.9 | 279.5 | 279.9 | 297.2 | 265.0 | 257.2 | 260.5 |
| 65° | 6171.3 | 4833.7 | 2085.3 | 546.1 | 307.1 | 262.2 | 255.6 | 260.9 | 236.2 | 230.4 | 237.0 |
| 67.5° | 5605.8 | 4211.3 | 1777.4 | 491.7 | 302.5 | 238.7 | 230.8 | 228.8 | 213.1 | 206.5 | 213.1 |
| 70° | 4896.4 | 3526.3 | 1420.8 | 453.4 | 285.2 | 213.1 | 206.9 | 204.9 | 191.7 | 186.7 | 192.5 |
| 72.5° | 3935.6 | 2753.4 | 1096.4 | 424.1 | 266.3 | 189.6 | 184.2 | 181.8 | 170.6 | 163.6 | 170.6 |
| 75° | 2799.2 | 2104.2 | 814.5 | 379.2 | 239.5 | 165.7 | 159.5 | 156.2 | 145.9 | 139.3 | 145.5 |
| 77.5° | 1989.2 | 1579.5 | 568.8 | 313.7 | 197.4 | 140.1 | 136.4 | 131.1 | 122.0 | 114.2 | 120.4 |
| 80° | 1470.7 | 1128.6 | 366.8 | 242.0 | 150.9 | 112.1 | 110.1 | 106.3 | 97.7 | 88.2 | 92.7 |
| 82.5° | 968.2 | 813.7 | 210.2 | 164.1 | 109.6 | 80.8 | 82.4 | 80.0 | 71.7 | 61.8 | 64.3 |
| 85° | 433.6 | 481.8 | 111.7 | 90.3 | 71.3 | 48.6 | 53.2 | 51.5 | 45.3 | 35.9 | 36.7 |
| 87.5° | 41.6 | 81.2 | 34.2 | 33.0 | 26.4 | 15.3 | 19.0 | 16.1 | 13.6 | 8.7 | 6.6 |
| 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: P596288
 CATALOG NUMBER: MSA-SA2D-722-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 |
| 2.5° | 965.3 | 907.2 | 849.1 | 884.6 | 885.4 | 894.9 | 896.1 | 861.1 | 889.1 | 910.5 | 932.8 |
| 5° | 980.6 | 942.7 | 944.7 | 910.5 | 892.0 | 915.9 | 910.9 | 901.5 | 918.4 | 941.8 | 970.3 |
| 7.5° | 870.1 | 845.4 | 841.3 | 808.3 | 728.3 | 710.6 | 725.5 | 731.6 | 754.3 | 790.6 | 821.1 |
| 10° | 679.3 | 728.3 | 673.1 | 660.3 | 639.3 | 598.1 | 574.2 | 571.3 | 619.5 | 648.8 | 674.3 |
| 12.5° | 612.1 | 599.7 | 593.1 | 558.1 | 558.1 | 514.4 | 500.4 | 513.2 | 587.4 | 608.4 | 641.4 |
| 15° | 521.4 | 512.3 | 481.8 | 464.5 | 456.3 | 438.6 | 453.4 | 465.8 | 535.0 | 536.7 | 571.3 |
| 17.5° | 432.8 | 427.4 | 398.6 | 395.3 | 387.0 | 379.2 | 392.8 | 422.5 | 460.0 | 453.4 | 469.5 |
| 20° | 387.0 | 368.5 | 342.1 | 351.6 | 342.9 | 336.8 | 331.0 | 373.0 | 399.4 | 408.1 | 417.5 |
| 22.5° | 375.5 | 341.7 | 326.0 | 317.4 | 317.8 | 307.9 | 309.1 | 344.2 | 384.2 | 389.5 | 383.7 |
| 25° | 429.1 | 368.9 | 318.2 | 293.1 | 283.6 | 280.3 | 289.8 | 320.7 | 368.9 | 380.4 | 385.0 |
| 27.5° | 502.0 | 400.6 | 327.7 | 284.8 | 265.9 | 267.5 | 281.1 | 302.5 | 359.4 | 380.0 | 385.4 |
| 30° | 481.8 | 376.7 | 328.1 | 278.6 | 255.1 | 263.8 | 268.7 | 289.4 | 352.0 | 382.9 | 409.7 |
| 32.5° | 371.8 | 338.8 | 330.2 | 283.6 | 274.1 | 260.5 | 267.5 | 287.3 | 330.2 | 349.5 | 350.8 |
| 35° | 314.9 | 289.8 | 284.0 | 272.5 | 259.3 | 253.5 | 261.3 | 278.6 | 306.7 | 318.6 | 317.0 |
| 37.5° | 312.4 | 284.8 | 262.2 | 257.2 | 251.8 | 250.2 | 254.7 | 270.8 | 299.2 | 320.3 | 315.7 |
| 40° | 316.6 | 282.3 | 259.3 | 250.6 | 252.7 | 245.3 | 249.8 | 269.6 | 300.5 | 320.3 | 316.1 |
| 42.5° | 311.6 | 279.5 | 255.6 | 249.0 | 251.0 | 240.7 | 246.1 | 266.7 | 297.2 | 320.7 | 312.9 |
| 45° | 301.7 | 272.9 | 253.5 | 242.4 | 251.8 | 236.6 | 243.2 | 259.3 | 287.3 | 312.9 | 303.8 |
| 47.5° | 291.8 | 265.0 | 244.8 | 237.8 | 247.3 | 232.5 | 235.4 | 249.4 | 277.4 | 302.5 | 294.7 |
| 50° | 281.1 | 255.1 | 237.8 | 235.8 | 242.4 | 231.6 | 227.1 | 238.7 | 265.4 | 290.6 | 284.0 |
| 52.5° | 269.6 | 246.9 | 232.9 | 232.1 | 238.2 | 226.3 | 219.7 | 228.8 | 252.7 | 277.8 | 272.5 |
| 55° | 258.4 | 237.8 | 226.7 | 228.8 | 235.8 | 221.8 | 213.5 | 219.3 | 239.1 | 263.8 | 256.4 |
| 57.5° | 247.3 | 227.5 | 218.5 | 224.2 | 229.6 | 216.0 | 205.7 | 209.0 | 225.1 | 249.4 | 240.7 |
| 60° | 237.4 | 218.5 | 209.4 | 216.4 | 221.3 | 207.3 | 195.4 | 197.4 | 211.9 | 233.7 | 225.9 |
| 62.5° | 224.6 | 208.6 | 196.6 | 205.7 | 209.4 | 195.8 | 183.0 | 185.5 | 197.0 | 217.6 | 211.9 |
| 65° | 206.5 | 196.2 | 185.1 | 191.3 | 196.2 | 182.2 | 170.2 | 173.1 | 181.8 | 201.1 | 197.0 |
| 67.5° | 190.8 | 181.0 | 173.5 | 178.5 | 179.3 | 168.6 | 157.9 | 159.5 | 166.5 | 184.7 | 180.1 |
| 70° | 173.5 | 164.1 | 158.3 | 162.0 | 161.6 | 152.5 | 144.3 | 144.7 | 150.4 | 166.9 | 160.8 |
| 72.5° | 154.6 | 145.5 | 142.6 | 144.7 | 143.0 | 134.8 | 127.0 | 129.8 | 133.5 | 145.9 | 141.0 |
| 75° | 134.4 | 126.1 | 124.5 | 126.5 | 124.1 | 116.2 | 109.2 | 112.1 | 115.4 | 125.7 | 119.5 |
| 77.5° | 113.4 | 105.9 | 106.3 | 106.8 | 103.5 | 98.1 | 91.1 | 94.0 | 96.0 | 103.0 | 96.9 |
| 80° | 90.3 | 84.5 | 86.1 | 86.1 | 82.4 | 78.7 | 72.1 | 73.0 | 74.2 | 76.7 | 72.1 |
| 82.5° | 66.0 | 66.0 | 66.0 | 66.4 | 58.5 | 59.8 | 54.0 | 53.6 | 52.3 | 51.9 | 49.1 |
| 85° | 39.2 | 40.8 | 41.6 | 42.9 | 31.7 | 37.1 | 32.2 | 30.9 | 28.4 | 26.0 | 25.1 |
| 87.5° | 8.7 | 11.1 | 11.1 | 10.7 | 0.0 | 4.1 | 2.1 | 3.3 | 0.8 | 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 |



REPORT NUMBER: P596288
 CATALOG NUMBER: MSA-SA2D-722-U-SLL

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 | 895.7 |
| 2.5° | 907.2 | 882.5 | 928.7 | 969.9 | 963.3 | 987.2 | 931.5 | 1014.0 | 1101.4 | 1101.4 |
| 5° | 962.9 | 941.8 | 953.8 | 977.7 | 995.8 | 1079.1 | 1148.4 | 1217.2 | 1359.4 | 1361.0 |
| 7.5° | 812.0 | 857.4 | 868.1 | 861.1 | 939.0 | 1046.1 | 1160.3 | 1356.5 | 1476.9 | 1486.3 |
| 10° | 759.2 | 779.9 | 812.4 | 830.6 | 862.3 | 967.8 | 1109.6 | 1342.5 | 1470.3 | 1494.2 |
| 12.5° | 687.9 | 764.2 | 813.7 | 915.1 | 940.2 | 961.2 | 1186.7 | 1388.2 | 1476.5 | 1470.7 |
| 15° | 610.0 | 667.7 | 739.1 | 851.2 | 915.1 | 1075.8 | 1232.4 | 1535.0 | 1584.9 | 1628.6 |
| 17.5° | 486.4 | 528.8 | 623.6 | 751.4 | 909.7 | 1057.7 | 1345.4 | 1716.3 | 1809.5 | 1854.8 |
| 20° | 400.2 | 400.6 | 495.4 | 664.9 | 837.2 | 981.8 | 1388.2 | 1866.8 | 1985.1 | 2008.2 |
| 22.5° | 378.4 | 359.4 | 409.3 | 547.0 | 757.2 | 1026.8 | 1474.8 | 2108.8 | 2355.7 | 2413.8 |
| 25° | 366.4 | 343.4 | 374.7 | 482.7 | 699.9 | 1050.3 | 1649.2 | 2441.4 | 2758.4 | 2781.0 |
| 27.5° | 371.4 | 382.1 | 392.0 | 430.3 | 627.3 | 1006.2 | 1608.8 | 2590.2 | 2929.8 | 2972.7 |
| 30° | 404.8 | 422.1 | 399.4 | 412.6 | 567.6 | 942.3 | 1680.9 | 2831.7 | 3145.8 | 3217.9 |
| 32.5° | 336.8 | 330.2 | 328.1 | 357.0 | 507.8 | 884.6 | 1832.2 | 3171.8 | 3379.9 | 3470.6 |
| 35° | 303.8 | 293.5 | 297.6 | 330.6 | 478.5 | 876.3 | 1917.1 | 3453.3 | 3749.7 | 3805.3 |
| 37.5° | 302.5 | 290.6 | 296.0 | 320.7 | 488.9 | 891.1 | 2053.1 | 3905.1 | 4401.8 | 4520.9 |
| 40° | 299.7 | 293.1 | 296.0 | 314.5 | 478.1 | 899.4 | 2131.4 | 4284.7 | 4856.0 | 4976.8 |
| 42.5° | 299.2 | 296.0 | 298.8 | 319.4 | 467.0 | 903.1 | 2239.8 | 4627.6 | 5334.5 | 5429.7 |
| 45° | 298.0 | 301.3 | 301.3 | 323.6 | 462.1 | 927.8 | 2303.7 | 4795.8 | 5650.3 | 5767.7 |
| 47.5° | 292.2 | 302.1 | 318.2 | 322.3 | 441.9 | 916.3 | 2394.0 | 5050.9 | 5818.0 | 5928.5 |
| 50° | 284.8 | 300.9 | 339.6 | 314.1 | 438.6 | 888.3 | 2499.5 | 5253.3 | 6033.2 | 6129.2 |
| 52.5° | 274.9 | 298.8 | 334.7 | 298.0 | 432.8 | 883.3 | 2647.5 | 5516.3 | 6284.2 | 6369.1 |
| 55° | 260.9 | 291.4 | 319.4 | 281.9 | 418.8 | 867.7 | 2873.8 | 5842.3 | 6612.7 | 6670.8 |
| 57.5° | 248.1 | 280.3 | 297.2 | 272.9 | 385.4 | 871.0 | 3031.2 | 6108.2 | 6888.5 | 6939.2 |
| 60° | 236.6 | 279.1 | 265.4 | 263.4 | 351.2 | 826.8 | 3082.3 | 6105.3 | 6991.1 | 7070.7 |
| 62.5° | 224.2 | 263.4 | 243.2 | 250.6 | 321.1 | 781.5 | 2973.9 | 5843.6 | 6880.2 | 7019.6 |
| 65° | 208.2 | 225.9 | 224.6 | 241.5 | 321.9 | 707.7 | 2725.4 | 5381.9 | 6603.7 | 6787.1 |
| 67.5° | 189.2 | 199.9 | 206.9 | 226.7 | 332.2 | 650.4 | 2325.6 | 4826.7 | 6132.9 | 6351.0 |
| 70° | 169.8 | 180.5 | 188.4 | 207.3 | 341.7 | 624.1 | 1851.1 | 4046.9 | 5366.3 | 5587.6 |
| 72.5° | 150.0 | 161.2 | 167.3 | 183.8 | 328.9 | 567.6 | 1370.1 | 3148.7 | 4307.4 | 4423.6 |
| 75° | 129.4 | 140.1 | 145.1 | 160.3 | 285.6 | 469.5 | 946.0 | 2384.9 | 3154.9 | 3272.8 |
| 77.5° | 108.4 | 119.9 | 121.6 | 134.0 | 218.0 | 359.0 | 606.3 | 1829.3 | 2234.1 | 2312.8 |
| 80° | 86.6 | 98.1 | 98.1 | 104.7 | 153.3 | 246.9 | 363.1 | 1380.0 | 1626.9 | 1657.8 |
| 82.5° | 62.2 | 74.6 | 73.8 | 74.2 | 105.9 | 152.9 | 210.2 | 1034.2 | 1175.6 | 1181.3 |
| 85° | 36.7 | 45.3 | 44.9 | 41.2 | 62.7 | 82.4 | 113.8 | 642.2 | 656.2 | 657.9 |
| 87.5° | 7.0 | 10.7 | 9.5 | 4.1 | 17.3 | 24.3 | 33.0 | 119.1 | 47.4 | 46.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)