

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: P401780

Luminaire Tested: **ENT-SA1F-722-U-SLL**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1F-722-U-SLL
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2200K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5061 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

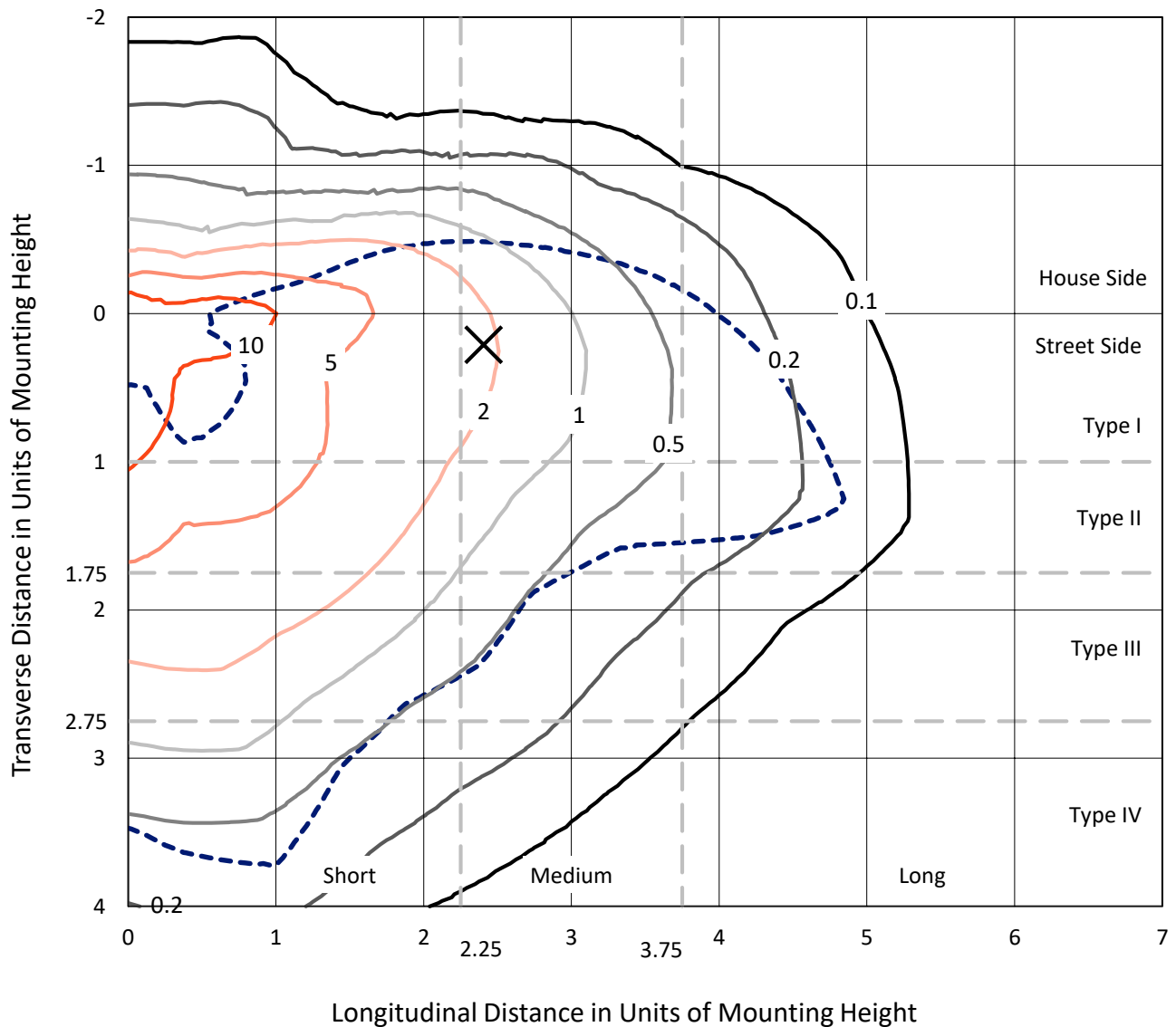
Input Watts (W): 66.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

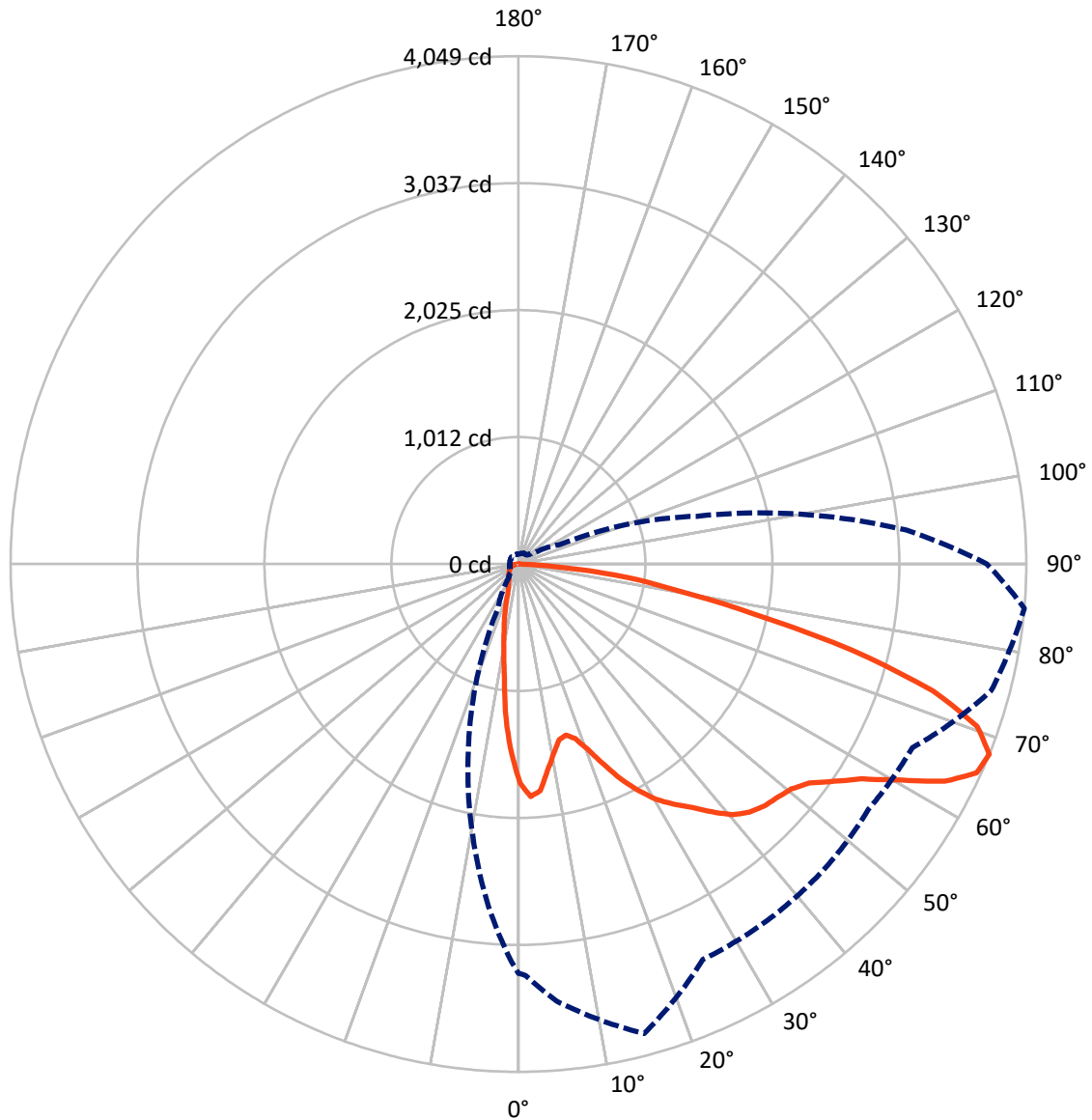
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1019.7 | 0.0 | 1019.7 |
| | % Fixture | 20.1 | 0.0 | 20.1 |
| Street Side | Lumens | 4041.3 | 0.0 | 4041.3 |
| | % Fixture | 79.9 | 0.0 | 79.9 |
| Total | Lumens | 5061.0 | 0.0 | 5061.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 132.9 | 2.6 |
| 10°-20° | 262.2 | 5.2 |
| 20°-30° | 366.3 | 7.2 |
| 30°-40° | 516.4 | 10.2 |
| 40°-50° | 715.5 | 14.1 |
| 50°-60° | 1005.4 | 19.9 |
| 60°-70° | 1229.2 | 24.3 |
| 70°-80° | 722.4 | 14.3 |
| 80°-90° | 110.6 | 2.2 |
| 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° | 5061.0 | 100.0 |
| 0°-180° | 5061.0 | 100.0 |



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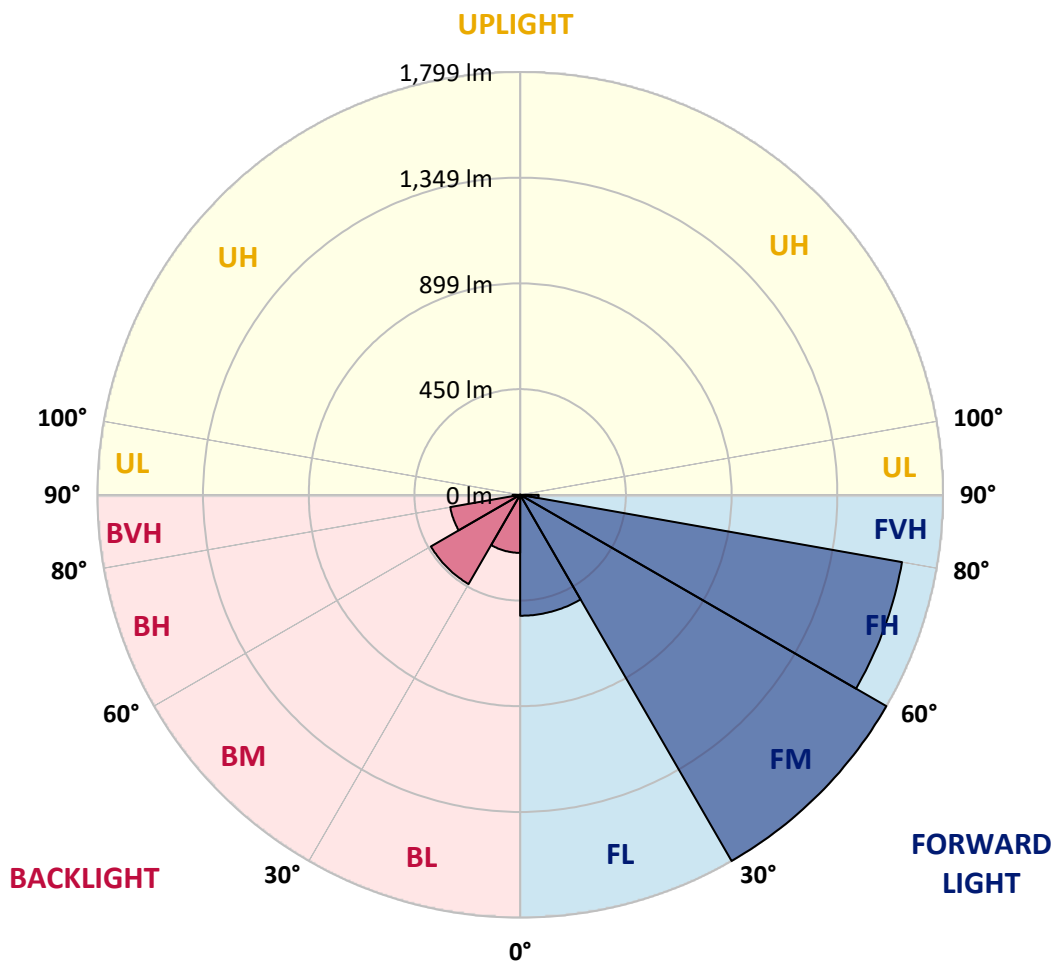
CATALOG NUMBER: ENT-SA1F-722-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 514.5 | 10.2 | | | |
| FM | (30°-60°) | 1799.0 | 35.5 | | | |
| FH | (60°-80°) | 1649.5 | 32.6 | | | G1/1800 |
| FVH | (80°-90°) | 78.3 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 247.0 | 4.9 | B1/500 | | |
| BM | (30°-60°) | 438.4 | 8.7 | B1/1000 | | |
| BH | (60°-80°) | 302.1 | 6.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 32.3 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 |
| 2.5° | 1796.5 | 1788.3 | 1816.0 | 1856.7 | 1884.4 | 1903.9 | 1910.4 | 1909.6 | 1903.9 | 1888.4 | 1855.9 |
| 5° | 1716.7 | 1709.4 | 1765.6 | 1855.9 | 1934.8 | 1991.8 | 2008.0 | 1985.2 | 1956.8 | 1896.6 | 1816.8 |
| 7.5° | 1565.4 | 1576.8 | 1648.4 | 1775.3 | 1902.3 | 1992.6 | 2014.5 | 1978.7 | 1920.2 | 1797.3 | 1663.0 |
| 10° | 1450.7 | 1456.4 | 1536.9 | 1689.9 | 1825.0 | 1917.7 | 1956.0 | 1924.2 | 1847.7 | 1692.3 | 1536.9 |
| 12.5° | 1379.9 | 1385.6 | 1463.7 | 1605.3 | 1749.3 | 1821.7 | 1833.1 | 1832.3 | 1768.8 | 1618.3 | 1438.5 |
| 15° | 1389.7 | 1397.0 | 1475.1 | 1592.3 | 1673.6 | 1705.4 | 1706.2 | 1715.1 | 1696.4 | 1581.7 | 1414.9 |
| 17.5° | 1484.1 | 1484.1 | 1558.9 | 1629.7 | 1611.0 | 1588.2 | 1605.3 | 1621.6 | 1654.1 | 1603.7 | 1462.9 |
| 20° | 1632.9 | 1639.5 | 1708.6 | 1696.4 | 1582.5 | 1525.5 | 1505.2 | 1533.7 | 1634.6 | 1669.6 | 1576.0 |
| 22.5° | 1794.0 | 1811.1 | 1883.5 | 1794.0 | 1577.6 | 1467.0 | 1444.2 | 1475.1 | 1637.0 | 1773.7 | 1731.4 |
| 25° | 1972.2 | 1993.4 | 2042.2 | 1908.0 | 1592.3 | 1434.4 | 1419.0 | 1448.3 | 1643.5 | 1869.7 | 1899.0 |
| 27.5° | 2135.0 | 2136.6 | 2184.6 | 2004.0 | 1630.5 | 1437.7 | 1411.6 | 1449.9 | 1661.4 | 1945.4 | 2047.1 |
| 30° | 2250.5 | 2250.5 | 2271.6 | 2052.8 | 1677.7 | 1458.0 | 1418.1 | 1474.3 | 1686.6 | 1986.9 | 2181.3 |
| 32.5° | 2356.3 | 2362.0 | 2351.4 | 2104.0 | 1722.4 | 1487.3 | 1433.6 | 1523.1 | 1726.5 | 2021.0 | 2284.7 |
| 35° | 2490.5 | 2489.7 | 2442.5 | 2144.7 | 1763.9 | 1519.0 | 1471.8 | 1584.9 | 1784.3 | 2071.5 | 2383.1 |
| 37.5° | 2656.5 | 2648.3 | 2548.3 | 2181.3 | 1814.4 | 1573.6 | 1544.3 | 1669.6 | 1861.6 | 2130.9 | 2507.6 |
| 40° | 2807.0 | 2794.0 | 2645.1 | 2215.5 | 1854.3 | 1679.3 | 1662.2 | 1774.5 | 1959.2 | 2204.9 | 2628.8 |
| 42.5° | 2924.2 | 2904.6 | 2727.3 | 2239.9 | 1914.5 | 1845.3 | 1859.9 | 1963.3 | 2057.7 | 2270.8 | 2704.5 |
| 45° | 3022.6 | 3002.3 | 2789.1 | 2252.1 | 2060.1 | 2082.1 | 2110.5 | 2196.8 | 2162.6 | 2288.7 | 2750.9 |
| 47.5° | 3093.4 | 3060.0 | 2816.0 | 2287.9 | 2257.0 | 2358.7 | 2446.6 | 2452.3 | 2310.7 | 2287.9 | 2779.3 |
| 50° | 3134.9 | 3098.3 | 2841.2 | 2376.6 | 2485.6 | 2672.8 | 2766.3 | 2722.4 | 2464.5 | 2302.6 | 2820.0 |
| 52.5° | 3218.7 | 3180.5 | 2946.1 | 2520.6 | 2719.9 | 2990.9 | 3041.3 | 2970.5 | 2623.9 | 2378.2 | 2901.4 |
| 55° | 3429.4 | 3412.3 | 3149.5 | 2714.3 | 2950.2 | 3248.0 | 3270.8 | 3200.0 | 2790.7 | 2509.2 | 3056.8 |
| 57.5° | 3667.8 | 3630.4 | 3424.5 | 2957.5 | 3170.7 | 3449.0 | 3485.6 | 3387.9 | 2965.7 | 2693.1 | 3230.1 |
| 60° | 3734.5 | 3727.2 | 3657.2 | 3241.5 | 3398.5 | 3663.8 | 3666.2 | 3541.7 | 3169.9 | 2912.0 | 3494.5 |
| 62.5° | 3636.9 | 3660.5 | 3754.1 | 3504.3 | 3589.7 | 3807.8 | 3787.4 | 3658.1 | 3383.9 | 3260.2 | 3815.9 |
| 65° | 3466.9 | 3500.2 | 3688.2 | 3752.4 | 3633.6 | 3779.3 | 3736.2 | 3654.0 | 3518.9 | 3635.3 | 4015.2 |
| 67.5° | 3262.6 | 3280.5 | 3499.4 | 3876.1 | 3479.9 | 3466.0 | 3445.7 | 3408.3 | 3465.2 | 3902.1 | 4049.4 |
| 70° | 3050.3 | 3065.7 | 3267.5 | 3706.1 | 3018.5 | 2859.9 | 2842.8 | 2810.3 | 3032.4 | 3898.9 | 3881.8 |
| 72.5° | 2571.1 | 2561.3 | 2747.6 | 3093.4 | 2305.0 | 2089.4 | 2234.2 | 2163.4 | 2453.1 | 3502.7 | 3457.9 |
| 75° | 1597.1 | 1650.8 | 1884.4 | 2169.1 | 1579.2 | 1431.2 | 1631.3 | 1613.4 | 1991.8 | 3016.1 | 2753.3 |
| 77.5° | 973.1 | 983.7 | 1115.5 | 1352.2 | 951.1 | 991.8 | 1048.8 | 1159.4 | 1476.7 | 2444.9 | 1919.3 |
| 80° | 509.3 | 473.5 | 570.4 | 742.0 | 564.7 | 665.5 | 768.9 | 890.9 | 937.3 | 1593.9 | 1283.1 |
| 82.5° | 147.3 | 146.5 | 192.8 | 310.8 | 267.7 | 327.1 | 388.1 | 559.8 | 614.3 | 947.9 | 878.7 |
| 85° | 0.8 | 0.8 | 0.8 | 1.6 | 2.4 | 4.1 | 17.1 | 144.0 | 190.4 | 439.4 | 361.2 |
| 87.5° | 0.0 | 0.0 | 0.8 | 1.6 | 1.6 | 3.3 | 4.9 | 6.5 | 8.1 | 9.8 | 35.8 |
| 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: ENT-SA1F-722-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 |
| 2.5° | 1845.3 | 1833.1 | 1807.1 | 1772.1 | 1747.7 | 1705.4 | 1696.4 | 1669.6 | 1642.7 | 1620.7 | 1621.6 |
| 5° | 1778.6 | 1737.1 | 1673.6 | 1600.4 | 1530.4 | 1467.8 | 1455.6 | 1419.0 | 1408.4 | 1397.8 | 1368.5 |
| 7.5° | 1603.7 | 1554.8 | 1466.2 | 1357.9 | 1270.1 | 1210.7 | 1147.2 | 1109.0 | 1074.8 | 1035.7 | 1045.5 |
| 10° | 1469.4 | 1399.4 | 1277.4 | 1150.5 | 1040.6 | 960.9 | 890.9 | 855.1 | 805.5 | 769.7 | 764.8 |
| 12.5° | 1366.1 | 1290.4 | 1144.0 | 995.1 | 891.7 | 845.4 | 800.6 | 744.5 | 689.1 | 642.0 | 617.5 |
| 15° | 1331.9 | 1246.5 | 1076.4 | 928.3 | 847.0 | 790.8 | 728.2 | 663.9 | 596.4 | 545.9 | 526.4 |
| 17.5° | 1371.8 | 1270.9 | 1075.6 | 899.9 | 798.2 | 716.0 | 637.9 | 565.5 | 485.7 | 435.3 | 419.8 |
| 20° | 1481.6 | 1355.5 | 1098.4 | 873.0 | 738.8 | 627.3 | 517.5 | 439.4 | 358.0 | 322.2 | 305.9 |
| 22.5° | 1634.6 | 1470.2 | 1133.4 | 840.5 | 672.9 | 519.1 | 395.4 | 297.0 | 257.1 | 239.2 | 235.1 |
| 25° | 1791.6 | 1615.9 | 1183.0 | 812.8 | 600.5 | 413.3 | 284.0 | 237.6 | 218.9 | 210.7 | 210.7 |
| 27.5° | 1964.1 | 1761.5 | 1236.7 | 779.5 | 525.6 | 307.6 | 231.1 | 209.1 | 199.3 | 194.5 | 193.6 |
| 30° | 2104.0 | 1880.3 | 1297.7 | 740.4 | 458.1 | 252.2 | 205.0 | 190.4 | 181.4 | 179.0 | 179.0 |
| 32.5° | 2204.9 | 1969.0 | 1362.0 | 701.3 | 396.2 | 227.8 | 190.4 | 177.4 | 167.6 | 166.0 | 166.0 |
| 35° | 2322.9 | 2053.6 | 1391.3 | 679.4 | 358.8 | 212.4 | 179.8 | 166.8 | 157.8 | 153.8 | 153.8 |
| 37.5° | 2464.5 | 2154.5 | 1407.6 | 658.2 | 342.5 | 197.7 | 172.5 | 157.8 | 148.9 | 144.0 | 144.0 |
| 40° | 2644.3 | 2269.2 | 1424.7 | 637.1 | 332.8 | 185.5 | 164.4 | 149.7 | 142.4 | 136.7 | 136.7 |
| 42.5° | 2772.8 | 2375.0 | 1437.7 | 619.2 | 315.7 | 179.8 | 157.8 | 144.0 | 135.1 | 130.2 | 129.4 |
| 45° | 2840.4 | 2473.4 | 1443.4 | 608.6 | 296.2 | 184.7 | 153.0 | 139.1 | 128.6 | 123.7 | 122.9 |
| 47.5° | 2885.9 | 2554.8 | 1450.7 | 600.5 | 280.7 | 175.7 | 152.1 | 134.2 | 123.7 | 117.2 | 117.2 |
| 50° | 2958.3 | 2662.2 | 1469.4 | 585.0 | 271.8 | 164.4 | 164.4 | 131.8 | 118.0 | 112.3 | 111.5 |
| 52.5° | 3087.7 | 2816.0 | 1519.9 | 567.9 | 262.0 | 153.0 | 169.2 | 132.6 | 113.9 | 107.4 | 105.8 |
| 55° | 3283.0 | 3060.9 | 1603.7 | 543.5 | 248.2 | 139.1 | 157.8 | 133.4 | 109.8 | 104.1 | 101.7 |
| 57.5° | 3536.8 | 3357.0 | 1701.3 | 524.0 | 224.6 | 127.7 | 144.0 | 129.4 | 105.0 | 100.1 | 98.4 |
| 60° | 3707.7 | 3554.7 | 1763.1 | 498.8 | 191.2 | 120.4 | 123.7 | 125.3 | 100.1 | 94.4 | 93.6 |
| 62.5° | 3799.6 | 3558.0 | 1763.9 | 463.8 | 160.3 | 113.9 | 110.7 | 127.7 | 96.0 | 88.7 | 87.9 |
| 65° | 3806.1 | 3384.7 | 1675.3 | 419.0 | 149.7 | 106.6 | 101.7 | 113.1 | 91.9 | 84.6 | 83.8 |
| 67.5° | 3735.4 | 3102.4 | 1472.7 | 367.8 | 153.8 | 100.9 | 94.4 | 95.2 | 87.1 | 80.5 | 79.7 |
| 70° | 3481.5 | 2737.0 | 1181.4 | 327.1 | 154.6 | 93.6 | 88.7 | 86.2 | 82.2 | 76.5 | 74.9 |
| 72.5° | 3003.9 | 2287.1 | 895.0 | 314.1 | 157.0 | 87.9 | 82.2 | 79.7 | 76.5 | 71.6 | 70.0 |
| 75° | 2266.8 | 1784.3 | 672.1 | 292.9 | 158.7 | 81.4 | 74.9 | 73.2 | 70.0 | 65.1 | 64.3 |
| 77.5° | 1566.2 | 1323.0 | 467.0 | 247.3 | 141.6 | 74.0 | 67.5 | 65.9 | 63.5 | 58.6 | 57.8 |
| 80° | 1057.7 | 907.2 | 286.4 | 185.5 | 107.4 | 65.1 | 58.6 | 58.6 | 56.1 | 51.3 | 51.3 |
| 82.5° | 736.3 | 677.7 | 165.2 | 121.2 | 78.1 | 53.7 | 51.3 | 51.3 | 48.8 | 43.9 | 43.1 |
| 85° | 307.6 | 410.1 | 74.0 | 65.9 | 54.5 | 42.3 | 42.3 | 43.1 | 40.7 | 36.6 | 35.8 |
| 87.5° | 10.6 | 43.9 | 29.3 | 30.9 | 32.5 | 29.3 | 32.5 | 32.5 | 31.7 | 28.5 | 27.7 |
| 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: ENT-SA1F-722-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 |
| 2.5° | 1598.0 | 1587.4 | 1554.8 | 1550.8 | 1526.4 | 1524.7 | 1535.3 | 1517.4 | 1519.0 | 1541.0 | 1537.8 |
| 5° | 1375.0 | 1350.6 | 1349.8 | 1323.0 | 1292.9 | 1285.5 | 1259.5 | 1249.7 | 1245.7 | 1236.7 | 1269.3 |
| 7.5° | 1075.6 | 1064.2 | 1074.0 | 1070.7 | 1043.1 | 1027.6 | 972.3 | 930.0 | 908.8 | 917.8 | 920.2 |
| 10° | 764.8 | 781.9 | 807.9 | 833.2 | 813.6 | 762.4 | 738.8 | 704.6 | 700.5 | 698.1 | 714.4 |
| 12.5° | 606.2 | 586.6 | 598.8 | 607.8 | 589.1 | 567.1 | 557.3 | 542.7 | 550.8 | 569.5 | 580.1 |
| 15° | 503.6 | 469.5 | 454.0 | 443.4 | 448.3 | 435.3 | 440.2 | 435.3 | 441.0 | 446.7 | 466.2 |
| 17.5° | 397.9 | 385.7 | 356.4 | 342.5 | 343.3 | 337.7 | 339.3 | 338.5 | 335.2 | 348.2 | 363.7 |
| 20° | 299.4 | 296.2 | 289.7 | 279.9 | 281.5 | 277.4 | 275.0 | 261.2 | 255.5 | 259.5 | 272.6 |
| 22.5° | 233.5 | 237.6 | 241.6 | 240.8 | 244.9 | 234.3 | 224.6 | 212.4 | 210.7 | 211.5 | 214.8 |
| 25° | 209.1 | 210.7 | 214.0 | 218.1 | 220.5 | 210.7 | 196.9 | 189.6 | 188.8 | 190.4 | 190.4 |
| 27.5° | 194.5 | 192.8 | 196.9 | 201.8 | 205.0 | 192.8 | 181.4 | 174.9 | 173.3 | 171.7 | 170.9 |
| 30° | 179.0 | 179.0 | 182.3 | 187.1 | 189.6 | 179.0 | 169.2 | 162.7 | 158.7 | 156.2 | 155.4 |
| 32.5° | 167.6 | 168.4 | 170.0 | 173.3 | 177.4 | 166.8 | 158.7 | 153.0 | 145.6 | 143.2 | 141.6 |
| 35° | 154.6 | 157.8 | 160.3 | 161.1 | 164.4 | 157.0 | 148.9 | 139.9 | 133.4 | 131.0 | 131.0 |
| 37.5° | 144.0 | 146.5 | 150.5 | 149.7 | 152.1 | 147.3 | 138.3 | 128.6 | 125.3 | 124.5 | 123.7 |
| 40° | 135.9 | 135.9 | 139.1 | 142.4 | 145.6 | 136.7 | 126.1 | 121.2 | 118.8 | 117.2 | 118.0 |
| 42.5° | 128.6 | 127.7 | 127.7 | 133.4 | 139.1 | 126.1 | 117.2 | 113.9 | 113.1 | 111.5 | 112.3 |
| 45° | 122.0 | 121.2 | 118.8 | 121.2 | 129.4 | 115.5 | 109.8 | 107.4 | 106.6 | 106.6 | 106.6 |
| 47.5° | 116.3 | 114.7 | 111.5 | 112.3 | 118.0 | 107.4 | 102.5 | 101.7 | 100.9 | 100.9 | 101.7 |
| 50° | 109.8 | 108.2 | 105.8 | 105.0 | 106.6 | 101.7 | 97.6 | 96.0 | 96.0 | 96.0 | 97.6 |
| 52.5° | 104.1 | 103.3 | 100.1 | 99.3 | 100.1 | 96.8 | 92.8 | 91.9 | 91.9 | 91.9 | 94.4 |
| 55° | 100.1 | 98.4 | 96.8 | 95.2 | 96.8 | 92.8 | 89.5 | 87.9 | 87.9 | 89.5 | 91.1 |
| 57.5° | 96.0 | 94.4 | 93.6 | 91.9 | 93.6 | 89.5 | 86.2 | 84.6 | 85.4 | 86.2 | 86.2 |
| 60° | 91.9 | 90.3 | 89.5 | 87.9 | 90.3 | 86.2 | 83.0 | 82.2 | 82.2 | 81.4 | 81.4 |
| 62.5° | 87.9 | 87.1 | 85.4 | 83.8 | 87.1 | 82.2 | 79.7 | 78.1 | 77.3 | 77.3 | 77.3 |
| 65° | 83.0 | 82.2 | 81.4 | 80.5 | 82.2 | 78.1 | 75.7 | 74.9 | 73.2 | 72.4 | 73.2 |
| 67.5° | 78.9 | 78.9 | 77.3 | 75.7 | 78.1 | 73.2 | 71.6 | 70.8 | 68.3 | 67.5 | 68.3 |
| 70° | 74.0 | 74.0 | 72.4 | 71.6 | 74.9 | 68.3 | 66.7 | 65.9 | 64.3 | 63.5 | 63.5 |
| 72.5° | 69.2 | 69.2 | 67.5 | 66.7 | 70.8 | 63.5 | 61.8 | 61.0 | 58.6 | 57.8 | 57.8 |
| 75° | 64.3 | 63.5 | 62.6 | 61.8 | 66.7 | 58.6 | 56.1 | 54.5 | 52.1 | 51.3 | 50.4 |
| 77.5° | 58.6 | 57.8 | 56.1 | 57.0 | 60.2 | 52.1 | 48.8 | 48.0 | 45.6 | 44.7 | 43.9 |
| 80° | 51.3 | 50.4 | 49.6 | 51.3 | 51.3 | 45.6 | 41.5 | 39.9 | 37.4 | 35.8 | 35.0 |
| 82.5° | 43.9 | 43.1 | 43.1 | 44.7 | 42.3 | 39.9 | 35.0 | 31.7 | 27.7 | 25.2 | 24.4 |
| 85° | 35.8 | 37.4 | 35.8 | 37.4 | 31.7 | 31.7 | 24.4 | 18.7 | 13.0 | 10.6 | 9.8 |
| 87.5° | 27.7 | 28.5 | 27.7 | 28.5 | 22.0 | 21.2 | 11.4 | 6.5 | 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 |



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| 0° | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 | 1748.5 |
| 2.5° | 1562.2 | 1563.8 | 1598.8 | 1633.8 | 1654.9 | 1707.8 | 1733.8 | 1763.1 | 1778.6 | 1796.5 |
| 5° | 1253.8 | 1284.7 | 1313.2 | 1383.2 | 1419.0 | 1502.8 | 1563.8 | 1661.4 | 1692.3 | 1716.7 |
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| 10° | 752.6 | 794.9 | 860.8 | 929.2 | 1004.8 | 1130.9 | 1246.5 | 1366.9 | 1425.5 | 1450.7 |
| 12.5° | 632.2 | 699.7 | 777.0 | 840.5 | 900.7 | 993.4 | 1139.9 | 1292.0 | 1353.1 | 1379.9 |
| 15° | 521.5 | 597.2 | 676.1 | 754.2 | 829.1 | 934.0 | 1087.8 | 1285.5 | 1362.8 | 1389.7 |
| 17.5° | 414.1 | 476.0 | 555.7 | 650.1 | 759.1 | 892.5 | 1097.6 | 1354.7 | 1449.1 | 1484.1 |
| 20° | 294.5 | 354.7 | 436.1 | 552.5 | 681.8 | 849.4 | 1120.4 | 1458.8 | 1593.1 | 1632.9 |
| 22.5° | 222.1 | 255.5 | 330.3 | 445.1 | 612.7 | 815.3 | 1156.2 | 1601.2 | 1758.2 | 1794.0 |
| 25° | 195.3 | 206.7 | 244.9 | 355.6 | 543.5 | 784.3 | 1203.4 | 1742.8 | 1933.2 | 1972.2 |
| 27.5° | 173.3 | 179.8 | 199.3 | 285.6 | 492.2 | 752.6 | 1259.5 | 1895.7 | 2083.7 | 2135.0 |
| 30° | 156.2 | 164.4 | 180.6 | 239.2 | 442.6 | 707.0 | 1310.7 | 2033.2 | 2211.4 | 2250.5 |
| 32.5° | 143.2 | 152.1 | 166.8 | 216.4 | 400.3 | 672.9 | 1340.0 | 2135.8 | 2320.5 | 2356.3 |
| 35° | 134.2 | 142.4 | 157.0 | 196.1 | 362.9 | 649.3 | 1349.0 | 2237.5 | 2453.9 | 2490.5 |
| 37.5° | 126.1 | 134.2 | 147.3 | 175.7 | 336.8 | 618.4 | 1362.8 | 2358.7 | 2608.5 | 2656.5 |
| 40° | 120.4 | 126.9 | 139.1 | 161.9 | 301.0 | 585.0 | 1379.1 | 2500.3 | 2759.0 | 2807.0 |
| 42.5° | 114.7 | 122.0 | 132.6 | 162.7 | 265.2 | 556.5 | 1389.7 | 2609.3 | 2878.6 | 2924.2 |
| 45° | 109.8 | 118.0 | 130.2 | 159.5 | 238.4 | 530.5 | 1384.8 | 2700.4 | 2987.6 | 3022.6 |
| 47.5° | 105.0 | 114.7 | 136.7 | 153.0 | 230.3 | 506.9 | 1388.9 | 2788.3 | 3065.7 | 3093.4 |
| 50° | 101.7 | 113.9 | 146.5 | 143.2 | 231.9 | 496.3 | 1427.9 | 2893.3 | 3124.3 | 3134.9 |
| 52.5° | 99.3 | 116.3 | 138.3 | 129.4 | 231.9 | 491.4 | 1502.8 | 3062.5 | 3226.0 | 3218.7 |
| 55° | 95.2 | 115.5 | 129.4 | 117.2 | 222.1 | 493.9 | 1573.6 | 3286.2 | 3470.1 | 3429.4 |
| 57.5° | 91.9 | 110.7 | 116.3 | 108.2 | 199.3 | 494.7 | 1678.5 | 3475.0 | 3662.1 | 3667.8 |
| 60° | 87.9 | 118.8 | 100.9 | 100.9 | 170.9 | 490.6 | 1771.3 | 3471.7 | 3697.1 | 3734.5 |
| 62.5° | 83.8 | 116.3 | 90.3 | 93.6 | 151.3 | 475.2 | 1827.4 | 3269.1 | 3567.7 | 3636.9 |
| 65° | 78.9 | 91.9 | 83.0 | 87.1 | 143.2 | 436.9 | 1747.7 | 3017.7 | 3392.8 | 3466.9 |
| 67.5° | 73.2 | 75.7 | 75.7 | 80.5 | 139.9 | 379.1 | 1546.7 | 2740.3 | 3173.1 | 3262.6 |
| 70° | 66.7 | 67.5 | 69.2 | 76.5 | 130.2 | 326.3 | 1259.5 | 2444.9 | 2937.2 | 3050.3 |
| 72.5° | 60.2 | 61.0 | 61.0 | 69.2 | 122.0 | 281.5 | 891.7 | 1937.2 | 2452.3 | 2571.1 |
| 75° | 52.9 | 53.7 | 52.9 | 60.2 | 106.6 | 210.7 | 529.7 | 1225.3 | 1462.9 | 1597.1 |
| 77.5° | 44.7 | 44.7 | 43.1 | 47.2 | 73.2 | 133.4 | 289.7 | 744.5 | 890.1 | 973.1 |
| 80° | 36.6 | 33.4 | 27.7 | 28.5 | 39.9 | 76.5 | 129.4 | 427.2 | 488.2 | 509.3 |
| 82.5° | 24.4 | 18.7 | 11.4 | 10.6 | 13.0 | 21.2 | 30.1 | 169.2 | 155.4 | 147.3 |
| 85° | 4.9 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

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