

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: P401600

Luminaire Tested: **ENC-SA1E-722-U-SLL**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401600
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: ENC-SA1E-722-U-SLL
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2200K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4572 lumens
Efficiency: N/A
Efficacy: 79.9 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

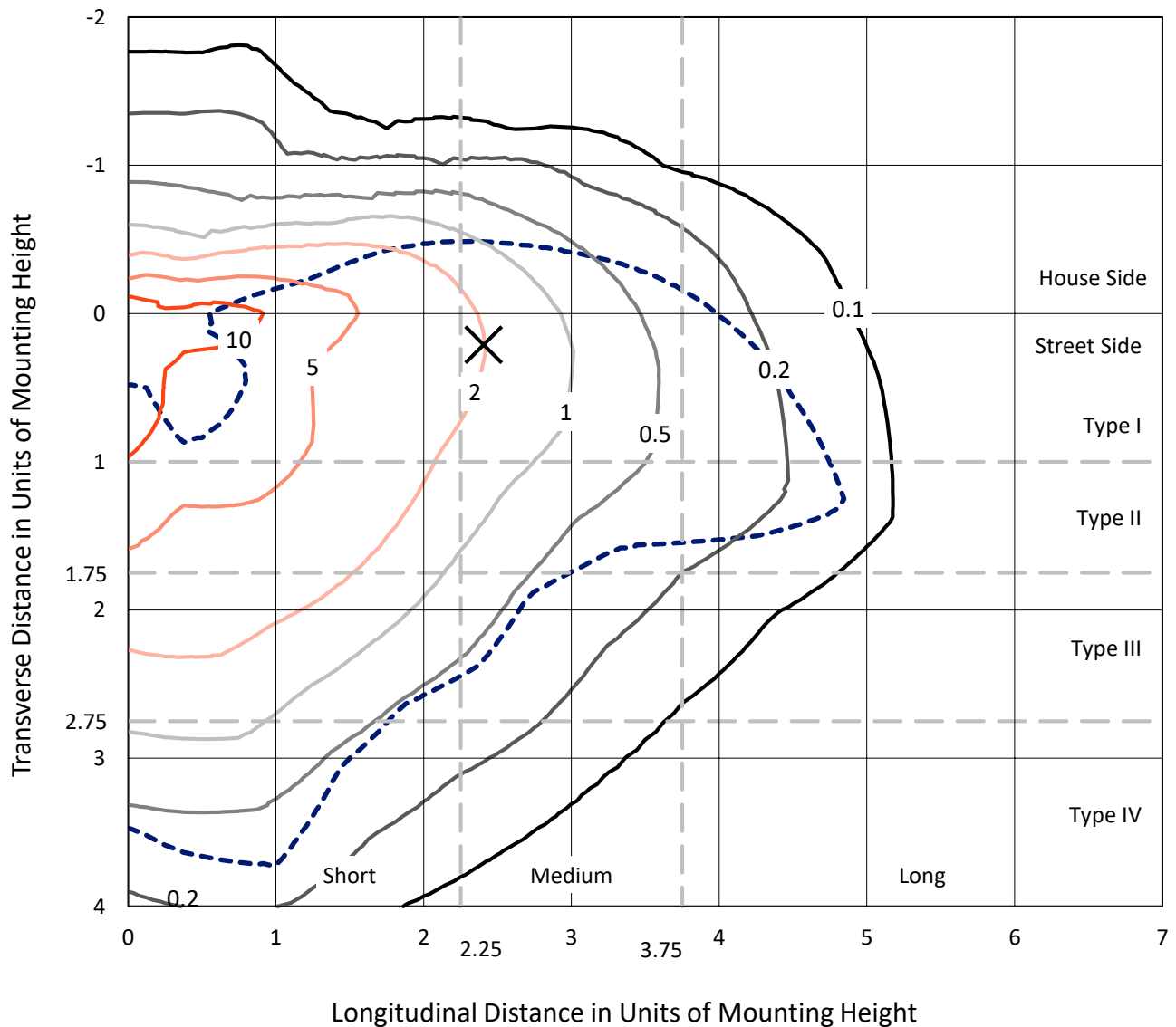
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

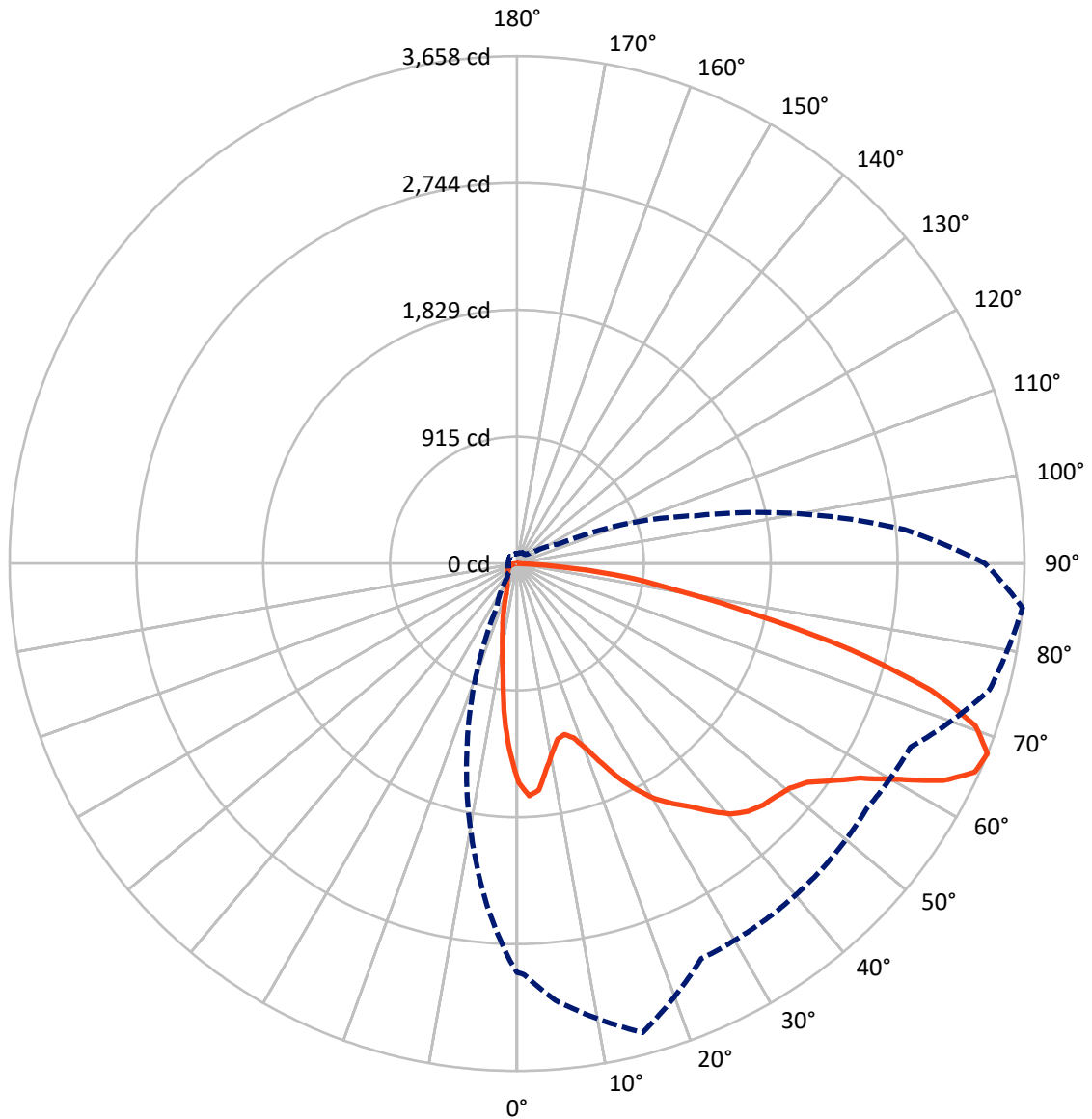
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 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 | 921.2 | 0.0 | 921.2 |
| | % Fixture | 20.1 | 0.0 | 20.1 |
| Street Side | Lumens | 3650.8 | 0.0 | 3650.8 |
| | % Fixture | 79.9 | 0.0 | 79.9 |
| Total | Lumens | 4572.0 | 0.0 | 4572.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 120.1 | 2.6 |
| 10°-20° | 236.9 | 5.2 |
| 20°-30° | 330.9 | 7.2 |
| 30°-40° | 466.5 | 10.2 |
| 40°-50° | 646.4 | 14.1 |
| 50°-60° | 908.3 | 19.9 |
| 60°-70° | 1110.4 | 24.3 |
| 70°-80° | 652.6 | 14.3 |
| 80°-90° | 99.9 | 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° | 4572.0 | 100.0 |
| 0°-180° | 4572.0 | 100.0 |



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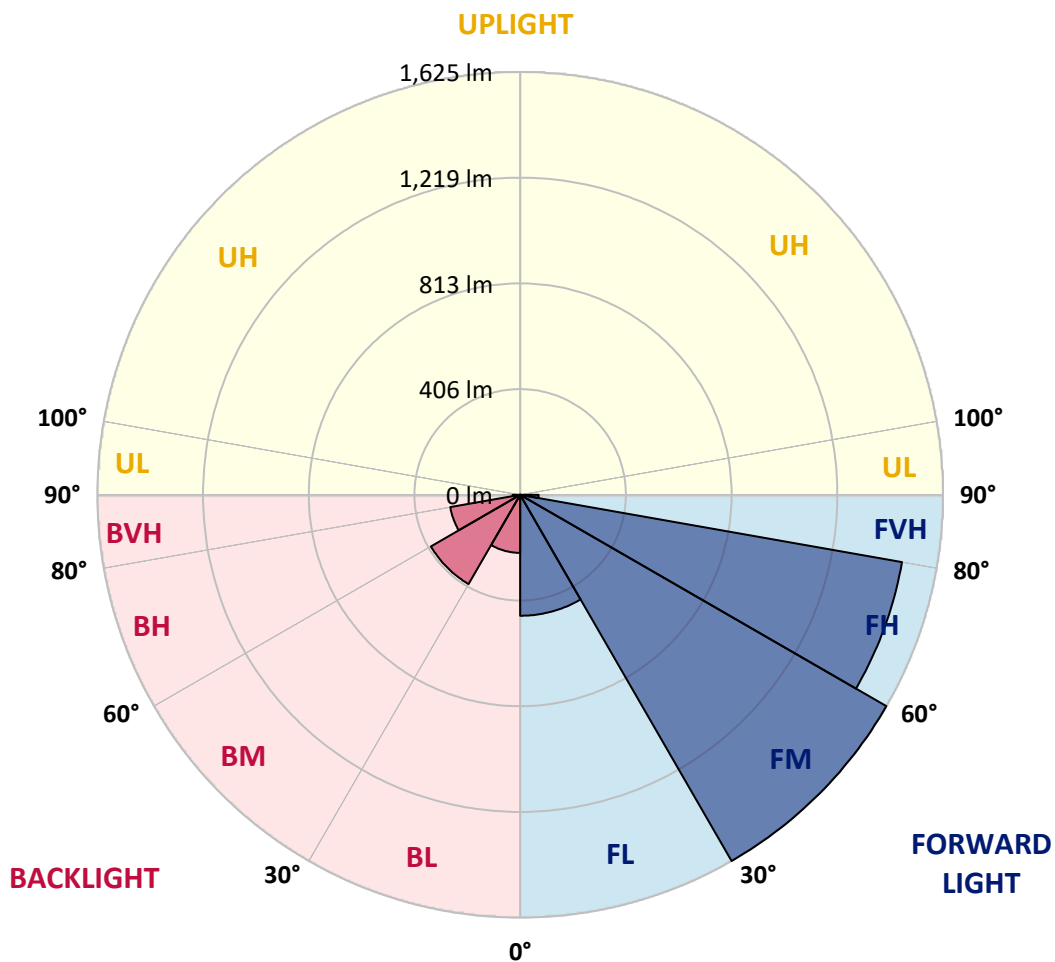
CATALOG NUMBER: ENC-SA1E-722-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 464.8 | 10.2 | | | |
| FM | (30°-60°) | 1625.2 | 35.5 | | | |
| FH | (60°-80°) | 1490.1 | 32.6 | | | G1/1800 |
| FVH | (80°-90°) | 70.7 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 223.1 | 4.9 | B1/500 | | |
| BM | (30°-60°) | 396.0 | 8.7 | B1/1000 | | |
| BH | (60°-80°) | 272.9 | 6.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 29.2 | 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° | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 |
| 2.5° | 1622.9 | 1615.6 | 1640.5 | 1677.3 | 1702.3 | 1719.9 | 1725.8 | 1725.1 | 1719.9 | 1706.0 | 1676.6 |
| 5° | 1550.9 | 1544.3 | 1595.0 | 1676.6 | 1747.9 | 1799.3 | 1814.0 | 1793.4 | 1767.7 | 1713.3 | 1641.3 |
| 7.5° | 1414.2 | 1424.5 | 1489.1 | 1603.8 | 1718.5 | 1800.0 | 1819.9 | 1787.5 | 1734.6 | 1623.6 | 1502.4 |
| 10° | 1310.5 | 1315.7 | 1388.4 | 1526.6 | 1648.6 | 1732.4 | 1767.0 | 1738.3 | 1669.2 | 1528.8 | 1388.4 |
| 12.5° | 1246.6 | 1251.7 | 1322.3 | 1450.2 | 1580.3 | 1645.7 | 1656.0 | 1655.2 | 1597.9 | 1461.9 | 1299.5 |
| 15° | 1255.4 | 1262.0 | 1332.6 | 1438.4 | 1511.9 | 1540.6 | 1541.3 | 1549.4 | 1532.5 | 1428.9 | 1278.2 |
| 17.5° | 1340.7 | 1340.7 | 1408.3 | 1472.2 | 1455.3 | 1434.7 | 1450.2 | 1464.9 | 1494.3 | 1448.7 | 1321.6 |
| 20° | 1475.2 | 1481.0 | 1543.5 | 1532.5 | 1429.6 | 1378.1 | 1359.8 | 1385.5 | 1476.6 | 1508.2 | 1423.7 |
| 22.5° | 1620.7 | 1636.1 | 1701.6 | 1620.7 | 1425.2 | 1325.2 | 1304.6 | 1332.6 | 1478.8 | 1602.3 | 1564.1 |
| 25° | 1781.7 | 1800.8 | 1844.9 | 1723.6 | 1438.4 | 1295.8 | 1281.9 | 1308.3 | 1484.7 | 1689.1 | 1715.5 |
| 27.5° | 1928.7 | 1930.1 | 1973.5 | 1810.3 | 1473.0 | 1298.8 | 1275.2 | 1309.8 | 1500.9 | 1757.4 | 1849.3 |
| 30° | 2033.0 | 2033.0 | 2052.2 | 1854.4 | 1515.6 | 1317.1 | 1281.1 | 1331.8 | 1523.7 | 1794.9 | 1970.6 |
| 32.5° | 2128.6 | 2133.7 | 2124.2 | 1900.7 | 1556.0 | 1343.6 | 1295.1 | 1375.9 | 1559.7 | 1825.8 | 2063.9 |
| 35° | 2249.9 | 2249.1 | 2206.5 | 1937.5 | 1593.5 | 1372.3 | 1329.6 | 1431.8 | 1611.9 | 1871.3 | 2152.8 |
| 37.5° | 2399.8 | 2392.5 | 2302.1 | 1970.6 | 1639.1 | 1421.5 | 1395.1 | 1508.2 | 1681.7 | 1925.0 | 2265.3 |
| 40° | 2535.8 | 2524.0 | 2389.5 | 2001.4 | 1675.1 | 1517.1 | 1501.6 | 1603.1 | 1769.9 | 1991.9 | 2374.8 |
| 42.5° | 2641.6 | 2624.0 | 2463.8 | 2023.5 | 1729.5 | 1667.0 | 1680.2 | 1773.6 | 1858.8 | 2051.4 | 2443.2 |
| 45° | 2730.6 | 2712.2 | 2519.6 | 2034.5 | 1861.0 | 1880.9 | 1906.6 | 1984.5 | 1953.7 | 2067.6 | 2485.1 |
| 47.5° | 2794.5 | 2764.4 | 2543.9 | 2066.9 | 2038.9 | 2130.8 | 2210.2 | 2215.3 | 2087.4 | 2066.9 | 2510.8 |
| 50° | 2832.0 | 2798.9 | 2566.7 | 2147.0 | 2245.5 | 2414.5 | 2499.0 | 2459.3 | 2226.4 | 2080.1 | 2547.6 |
| 52.5° | 2907.7 | 2873.2 | 2661.5 | 2277.1 | 2457.1 | 2701.9 | 2747.5 | 2683.5 | 2370.4 | 2148.4 | 2621.1 |
| 55° | 3098.1 | 3082.6 | 2845.2 | 2452.0 | 2665.2 | 2934.2 | 2954.7 | 2890.8 | 2521.1 | 2266.8 | 2761.4 |
| 57.5° | 3313.4 | 3279.6 | 3093.7 | 2671.8 | 2864.3 | 3115.7 | 3148.8 | 3060.6 | 2679.1 | 2432.9 | 2918.0 |
| 60° | 3373.7 | 3367.1 | 3303.9 | 2928.3 | 3070.1 | 3309.8 | 3312.0 | 3199.5 | 2863.6 | 2630.6 | 3156.9 |
| 62.5° | 3285.5 | 3306.8 | 3391.3 | 3165.7 | 3242.9 | 3439.9 | 3421.5 | 3304.6 | 3056.9 | 2945.2 | 3447.2 |
| 65° | 3131.9 | 3162.0 | 3331.8 | 3389.9 | 3282.6 | 3414.1 | 3375.2 | 3300.9 | 3178.9 | 3284.0 | 3627.3 |
| 67.5° | 2947.4 | 2963.6 | 3161.3 | 3501.6 | 3143.6 | 3131.1 | 3112.8 | 3079.0 | 3130.4 | 3525.1 | 3658.2 |
| 70° | 2755.6 | 2769.5 | 2951.8 | 3348.0 | 2726.9 | 2583.6 | 2568.1 | 2538.7 | 2739.4 | 3522.2 | 3506.7 |
| 72.5° | 2322.6 | 2313.8 | 2482.1 | 2794.5 | 2082.3 | 1887.5 | 2018.3 | 1954.4 | 2216.1 | 3164.2 | 3123.8 |
| 75° | 1442.8 | 1491.3 | 1702.3 | 1959.5 | 1426.7 | 1292.9 | 1473.7 | 1457.5 | 1799.3 | 2724.7 | 2487.3 |
| 77.5° | 879.1 | 888.6 | 1007.7 | 1221.6 | 859.2 | 896.0 | 947.4 | 1047.4 | 1334.0 | 2208.7 | 1733.9 |
| 80° | 460.1 | 427.8 | 515.2 | 670.3 | 510.1 | 601.2 | 694.6 | 804.8 | 846.7 | 1439.9 | 1159.1 |
| 82.5° | 133.0 | 132.3 | 174.2 | 280.8 | 241.8 | 295.5 | 350.6 | 505.7 | 554.9 | 856.3 | 793.8 |
| 85° | 0.7 | 0.7 | 0.7 | 1.5 | 2.2 | 3.7 | 15.4 | 130.1 | 172.0 | 396.9 | 326.3 |
| 87.5° | 0.0 | 0.0 | 0.7 | 1.5 | 1.5 | 2.9 | 4.4 | 5.9 | 7.4 | 8.8 | 32.3 |
| 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: ENC-SA1E-722-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 |
| 2.5° | 1667.0 | 1656.0 | 1632.5 | 1600.9 | 1578.8 | 1540.6 | 1532.5 | 1508.2 | 1484.0 | 1464.1 | 1464.9 |
| 5° | 1606.7 | 1569.2 | 1511.9 | 1445.8 | 1382.6 | 1326.0 | 1314.9 | 1281.9 | 1272.3 | 1262.7 | 1236.3 |
| 7.5° | 1448.7 | 1404.6 | 1324.5 | 1226.7 | 1147.4 | 1093.7 | 1036.4 | 1001.8 | 971.0 | 935.7 | 944.5 |
| 10° | 1327.4 | 1264.2 | 1154.0 | 1039.3 | 940.1 | 868.0 | 804.8 | 772.5 | 727.7 | 695.3 | 690.9 |
| 12.5° | 1234.1 | 1165.7 | 1033.4 | 898.9 | 805.6 | 763.7 | 723.3 | 672.5 | 622.6 | 579.9 | 557.9 |
| 15° | 1203.2 | 1126.0 | 972.4 | 838.6 | 765.1 | 714.4 | 657.8 | 599.8 | 538.8 | 493.2 | 475.6 |
| 17.5° | 1239.2 | 1148.1 | 971.7 | 812.9 | 721.0 | 646.8 | 576.2 | 510.8 | 438.8 | 393.2 | 379.3 |
| 20° | 1338.5 | 1224.5 | 992.3 | 788.7 | 667.4 | 566.7 | 467.5 | 396.9 | 323.4 | 291.1 | 276.4 |
| 22.5° | 1476.6 | 1328.2 | 1023.9 | 759.3 | 607.9 | 468.9 | 357.2 | 268.3 | 232.3 | 216.1 | 212.4 |
| 25° | 1618.5 | 1459.7 | 1068.7 | 734.3 | 542.4 | 373.4 | 256.5 | 214.6 | 197.7 | 190.4 | 190.4 |
| 27.5° | 1774.3 | 1591.3 | 1117.2 | 704.1 | 474.8 | 277.8 | 208.7 | 188.9 | 180.1 | 175.7 | 174.9 |
| 30° | 1900.7 | 1698.6 | 1172.3 | 668.9 | 413.8 | 227.9 | 185.2 | 172.0 | 163.9 | 161.7 | 161.7 |
| 32.5° | 1991.9 | 1778.7 | 1230.4 | 633.6 | 358.0 | 205.8 | 172.0 | 160.2 | 151.4 | 149.9 | 149.9 |
| 35° | 2098.5 | 1855.2 | 1256.9 | 613.7 | 324.1 | 191.8 | 162.4 | 150.7 | 142.6 | 138.9 | 138.9 |
| 37.5° | 2226.4 | 1946.3 | 1271.6 | 594.6 | 309.4 | 178.6 | 155.8 | 142.6 | 134.5 | 130.1 | 130.1 |
| 40° | 2388.8 | 2049.9 | 1287.0 | 575.5 | 300.6 | 167.6 | 148.5 | 135.2 | 128.6 | 123.5 | 123.5 |
| 42.5° | 2504.9 | 2145.5 | 1298.8 | 559.3 | 285.2 | 162.4 | 142.6 | 130.1 | 122.0 | 117.6 | 116.9 |
| 45° | 2565.9 | 2234.4 | 1303.9 | 549.8 | 267.5 | 166.8 | 138.2 | 125.7 | 116.1 | 111.7 | 111.0 |
| 47.5° | 2607.1 | 2307.9 | 1310.5 | 542.4 | 253.6 | 158.8 | 137.4 | 121.3 | 111.7 | 105.8 | 105.8 |
| 50° | 2672.5 | 2405.0 | 1327.4 | 528.5 | 245.5 | 148.5 | 148.5 | 119.1 | 106.6 | 101.4 | 100.7 |
| 52.5° | 2789.4 | 2543.9 | 1373.0 | 513.0 | 236.7 | 138.2 | 152.9 | 119.8 | 102.9 | 97.0 | 95.6 |
| 55° | 2965.8 | 2765.1 | 1448.7 | 491.0 | 224.2 | 125.7 | 142.6 | 120.5 | 99.2 | 94.1 | 91.9 |
| 57.5° | 3195.1 | 3032.7 | 1536.9 | 473.3 | 202.9 | 115.4 | 130.1 | 116.9 | 94.8 | 90.4 | 88.9 |
| 60° | 3349.4 | 3211.3 | 1592.8 | 450.6 | 172.7 | 108.8 | 111.7 | 113.2 | 90.4 | 85.3 | 84.5 |
| 62.5° | 3432.5 | 3214.2 | 1593.5 | 419.0 | 144.8 | 102.9 | 100.0 | 115.4 | 86.7 | 80.1 | 79.4 |
| 65° | 3438.4 | 3057.6 | 1513.4 | 378.5 | 135.2 | 96.3 | 91.9 | 102.2 | 83.1 | 76.4 | 75.7 |
| 67.5° | 3374.4 | 2802.6 | 1330.4 | 332.2 | 138.9 | 91.1 | 85.3 | 86.0 | 78.6 | 72.8 | 72.0 |
| 70° | 3145.1 | 2472.6 | 1067.2 | 295.5 | 139.7 | 84.5 | 80.1 | 77.9 | 74.2 | 69.1 | 67.6 |
| 72.5° | 2713.7 | 2066.1 | 808.5 | 283.7 | 141.9 | 79.4 | 74.2 | 72.0 | 69.1 | 64.7 | 63.2 |
| 75° | 2047.7 | 1611.9 | 607.1 | 264.6 | 143.3 | 73.5 | 67.6 | 66.2 | 63.2 | 58.8 | 58.1 |
| 77.5° | 1414.9 | 1195.1 | 421.9 | 223.4 | 127.9 | 66.9 | 61.0 | 59.5 | 57.3 | 52.9 | 52.2 |
| 80° | 955.5 | 819.5 | 258.7 | 167.6 | 97.0 | 58.8 | 52.9 | 52.9 | 50.7 | 46.3 | 46.3 |
| 82.5° | 665.2 | 612.3 | 149.2 | 109.5 | 70.6 | 48.5 | 46.3 | 46.3 | 44.1 | 39.7 | 39.0 |
| 85° | 277.8 | 370.4 | 66.9 | 59.5 | 49.2 | 38.2 | 38.2 | 39.0 | 36.8 | 33.1 | 32.3 |
| 87.5° | 9.6 | 39.7 | 26.5 | 27.9 | 29.4 | 26.5 | 29.4 | 29.4 | 28.7 | 25.7 | 25.0 |
| 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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CATALOG NUMBER: ENC-SA1E-722-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 |
| 2.5° | 1443.6 | 1434.0 | 1404.6 | 1400.9 | 1378.9 | 1377.4 | 1387.0 | 1370.8 | 1372.3 | 1392.1 | 1389.2 |
| 5° | 1242.2 | 1220.1 | 1219.4 | 1195.1 | 1167.9 | 1161.3 | 1137.8 | 1129.0 | 1125.3 | 1117.2 | 1146.6 |
| 7.5° | 971.7 | 961.4 | 970.2 | 967.3 | 942.3 | 928.3 | 878.3 | 840.1 | 821.0 | 829.1 | 831.3 |
| 10° | 690.9 | 706.3 | 729.9 | 752.7 | 735.0 | 688.7 | 667.4 | 636.5 | 632.8 | 630.6 | 645.3 |
| 12.5° | 547.6 | 529.9 | 541.0 | 549.1 | 532.1 | 512.3 | 503.5 | 490.3 | 497.6 | 514.5 | 524.1 |
| 15° | 455.0 | 424.1 | 410.1 | 400.6 | 405.0 | 393.2 | 397.6 | 393.2 | 398.4 | 403.5 | 421.2 |
| 17.5° | 359.4 | 348.4 | 321.9 | 309.4 | 310.2 | 305.0 | 306.5 | 305.8 | 302.8 | 314.6 | 328.6 |
| 20° | 270.5 | 267.5 | 261.7 | 252.8 | 254.3 | 250.6 | 248.4 | 235.9 | 230.8 | 234.5 | 246.2 |
| 22.5° | 210.9 | 214.6 | 218.3 | 217.6 | 221.2 | 211.7 | 202.9 | 191.8 | 190.4 | 191.1 | 194.0 |
| 25° | 188.9 | 190.4 | 193.3 | 197.0 | 199.2 | 190.4 | 177.9 | 171.3 | 170.5 | 172.0 | 172.0 |
| 27.5° | 175.7 | 174.2 | 177.9 | 182.3 | 185.2 | 174.2 | 163.9 | 158.0 | 156.6 | 155.1 | 154.4 |
| 30° | 161.7 | 161.7 | 164.6 | 169.1 | 171.3 | 161.7 | 152.9 | 147.0 | 143.3 | 141.1 | 140.4 |
| 32.5° | 151.4 | 152.1 | 153.6 | 156.6 | 160.2 | 150.7 | 143.3 | 138.2 | 131.6 | 129.4 | 127.9 |
| 35° | 139.7 | 142.6 | 144.8 | 145.5 | 148.5 | 141.9 | 134.5 | 126.4 | 120.5 | 118.3 | 118.3 |
| 37.5° | 130.1 | 132.3 | 136.0 | 135.2 | 137.4 | 133.0 | 125.0 | 116.1 | 113.2 | 112.5 | 111.7 |
| 40° | 122.7 | 122.7 | 125.7 | 128.6 | 131.6 | 123.5 | 113.9 | 109.5 | 107.3 | 105.8 | 106.6 |
| 42.5° | 116.1 | 115.4 | 115.4 | 120.5 | 125.7 | 113.9 | 105.8 | 102.9 | 102.2 | 100.7 | 101.4 |
| 45° | 110.3 | 109.5 | 107.3 | 109.5 | 116.9 | 104.4 | 99.2 | 97.0 | 96.3 | 96.3 | 96.3 |
| 47.5° | 105.1 | 103.6 | 100.7 | 101.4 | 106.6 | 97.0 | 92.6 | 91.9 | 91.1 | 91.1 | 91.9 |
| 50° | 99.2 | 97.8 | 95.6 | 94.8 | 96.3 | 91.9 | 88.2 | 86.7 | 86.7 | 86.7 | 88.2 |
| 52.5° | 94.1 | 93.3 | 90.4 | 89.7 | 90.4 | 87.5 | 83.8 | 83.1 | 83.1 | 83.1 | 85.3 |
| 55° | 90.4 | 88.9 | 87.5 | 86.0 | 87.5 | 83.8 | 80.9 | 79.4 | 79.4 | 80.9 | 82.3 |
| 57.5° | 86.7 | 85.3 | 84.5 | 83.1 | 84.5 | 80.9 | 77.9 | 76.4 | 77.2 | 77.9 | 77.9 |
| 60° | 83.1 | 81.6 | 80.9 | 79.4 | 81.6 | 77.9 | 75.0 | 74.2 | 74.2 | 73.5 | 73.5 |
| 62.5° | 79.4 | 78.6 | 77.2 | 75.7 | 78.6 | 74.2 | 72.0 | 70.6 | 69.8 | 69.8 | 69.8 |
| 65° | 75.0 | 74.2 | 73.5 | 72.8 | 74.2 | 70.6 | 68.4 | 67.6 | 66.2 | 65.4 | 66.2 |
| 67.5° | 71.3 | 71.3 | 69.8 | 68.4 | 70.6 | 66.2 | 64.7 | 63.9 | 61.7 | 61.0 | 61.7 |
| 70° | 66.9 | 66.9 | 65.4 | 64.7 | 67.6 | 61.7 | 60.3 | 59.5 | 58.1 | 57.3 | 57.3 |
| 72.5° | 62.5 | 62.5 | 61.0 | 60.3 | 63.9 | 57.3 | 55.9 | 55.1 | 52.9 | 52.2 | 52.2 |
| 75° | 58.1 | 57.3 | 56.6 | 55.9 | 60.3 | 52.9 | 50.7 | 49.2 | 47.0 | 46.3 | 45.6 |
| 77.5° | 52.9 | 52.2 | 50.7 | 51.5 | 54.4 | 47.0 | 44.1 | 43.4 | 41.2 | 40.4 | 39.7 |
| 80° | 46.3 | 45.6 | 44.8 | 46.3 | 46.3 | 41.2 | 37.5 | 36.0 | 33.8 | 32.3 | 31.6 |
| 82.5° | 39.7 | 39.0 | 39.0 | 40.4 | 38.2 | 36.0 | 31.6 | 28.7 | 25.0 | 22.8 | 22.1 |
| 85° | 32.3 | 33.8 | 32.3 | 33.8 | 28.7 | 28.7 | 22.1 | 16.9 | 11.8 | 9.6 | 8.8 |
| 87.5° | 25.0 | 25.7 | 25.0 | 25.7 | 19.8 | 19.1 | 10.3 | 5.9 | 0.7 | 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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| 22.5° | 200.7 | 230.8 | 298.4 | 402.1 | 553.5 | 736.5 | 1044.5 | 1446.5 | 1588.4 | 1620.7 |
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| 27.5° | 156.6 | 162.4 | 180.1 | 258.0 | 444.7 | 679.9 | 1137.8 | 1712.6 | 1882.4 | 1928.7 |
| 30° | 141.1 | 148.5 | 163.2 | 216.1 | 399.8 | 638.7 | 1184.1 | 1836.8 | 1997.8 | 2033.0 |
| 32.5° | 129.4 | 137.4 | 150.7 | 195.5 | 361.6 | 607.9 | 1210.6 | 1929.4 | 2096.3 | 2128.6 |
| 35° | 121.3 | 128.6 | 141.9 | 177.1 | 327.8 | 586.5 | 1218.6 | 2021.3 | 2216.8 | 2249.9 |
| 37.5° | 113.9 | 121.3 | 133.0 | 158.8 | 304.3 | 558.6 | 1231.1 | 2130.8 | 2356.4 | 2399.8 |
| 40° | 108.8 | 114.7 | 125.7 | 146.3 | 272.0 | 528.5 | 1245.8 | 2258.7 | 2492.4 | 2535.8 |
| 42.5° | 103.6 | 110.3 | 119.8 | 147.0 | 239.6 | 502.7 | 1255.4 | 2357.2 | 2600.5 | 2641.6 |
| 45° | 99.2 | 106.6 | 117.6 | 144.1 | 215.4 | 479.2 | 1251.0 | 2439.5 | 2699.0 | 2730.6 |
| 47.5° | 94.8 | 103.6 | 123.5 | 138.2 | 208.0 | 457.9 | 1254.7 | 2518.9 | 2769.5 | 2794.5 |
| 50° | 91.9 | 102.9 | 132.3 | 129.4 | 209.5 | 448.4 | 1289.9 | 2613.7 | 2822.4 | 2832.0 |
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| 55° | 86.0 | 104.4 | 116.9 | 105.8 | 200.7 | 446.2 | 1421.5 | 2968.7 | 3134.8 | 3098.1 |
| 57.5° | 83.1 | 100.0 | 105.1 | 97.8 | 180.1 | 446.9 | 1516.3 | 3139.2 | 3308.3 | 3313.4 |
| 60° | 79.4 | 107.3 | 91.1 | 91.1 | 154.4 | 443.2 | 1600.1 | 3136.3 | 3339.9 | 3373.7 |
| 62.5° | 75.7 | 105.1 | 81.6 | 84.5 | 136.7 | 429.2 | 1650.8 | 2953.3 | 3223.0 | 3285.5 |
| 65° | 71.3 | 83.1 | 75.0 | 78.6 | 129.4 | 394.7 | 1578.8 | 2726.2 | 3065.0 | 3131.9 |
| 67.5° | 66.2 | 68.4 | 68.4 | 72.8 | 126.4 | 342.5 | 1397.3 | 2475.5 | 2866.5 | 2947.4 |
| 70° | 60.3 | 61.0 | 62.5 | 69.1 | 117.6 | 294.7 | 1137.8 | 2208.7 | 2653.4 | 2755.6 |
| 72.5° | 54.4 | 55.1 | 55.1 | 62.5 | 110.3 | 254.3 | 805.6 | 1750.1 | 2215.3 | 2322.6 |
| 75° | 47.8 | 48.5 | 47.8 | 54.4 | 96.3 | 190.4 | 478.5 | 1106.9 | 1321.6 | 1442.8 |
| 77.5° | 40.4 | 40.4 | 39.0 | 42.6 | 66.2 | 120.5 | 261.7 | 672.5 | 804.1 | 879.1 |
| 80° | 33.1 | 30.1 | 25.0 | 25.7 | 36.0 | 69.1 | 116.9 | 385.9 | 441.0 | 460.1 |
| 82.5° | 22.1 | 16.9 | 10.3 | 9.6 | 11.8 | 19.1 | 27.2 | 152.9 | 140.4 | 133.0 |
| 85° | 4.4 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 |
| 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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