

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: P401617

Luminaire Tested: **ENV-SA1E-727-U-SLL-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1E-727-U-SLL-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4423 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

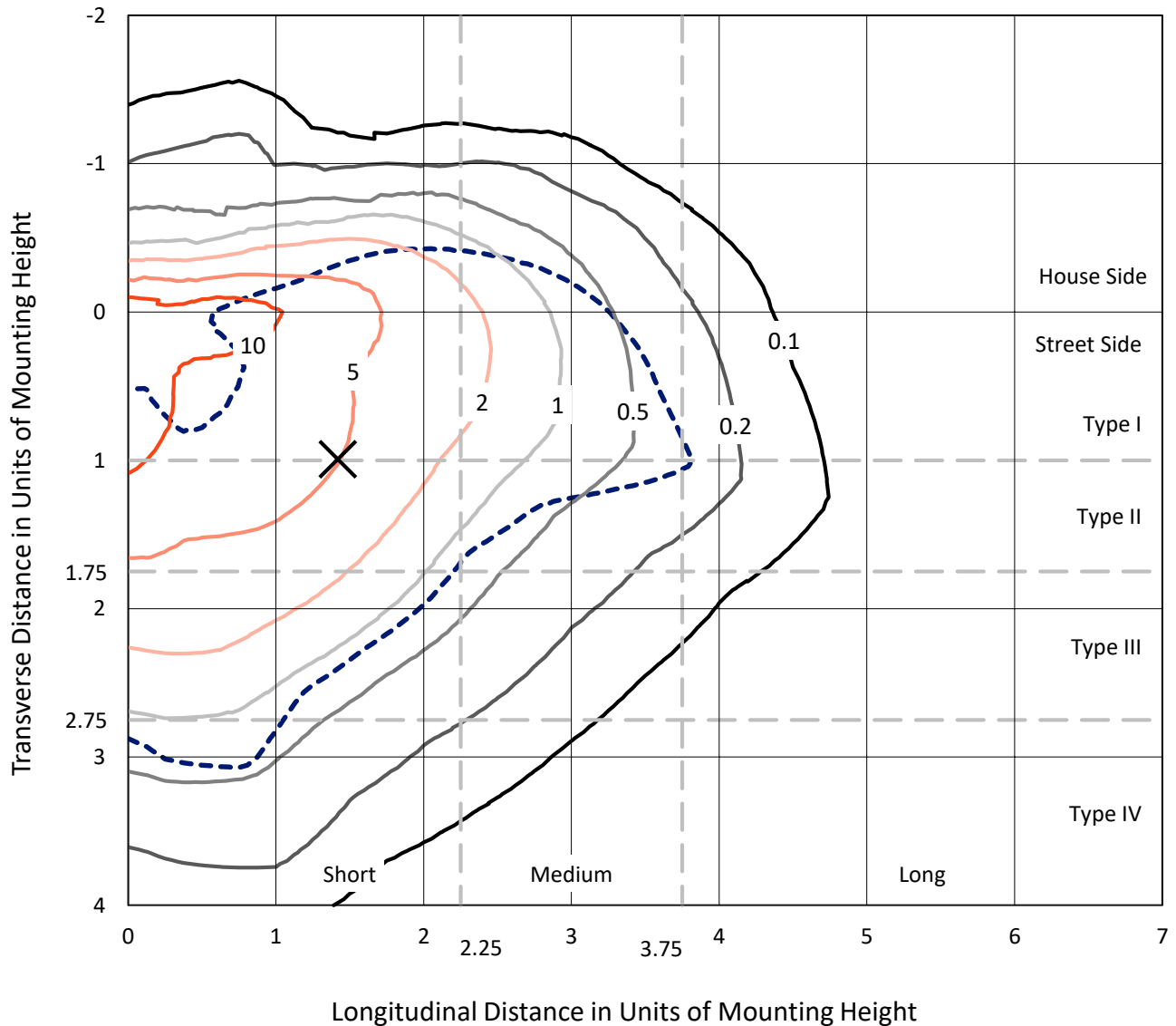
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

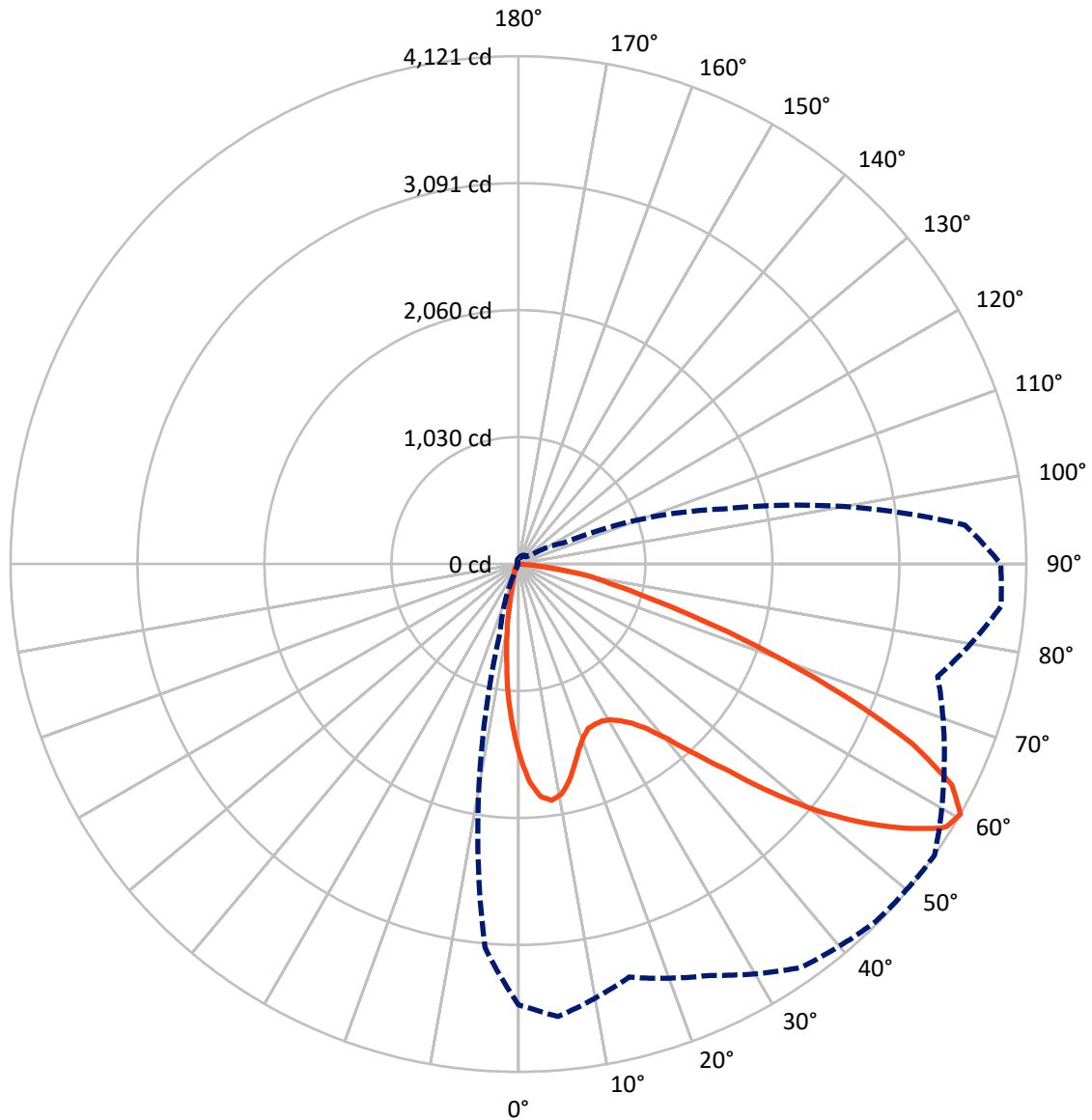


Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Short - Semi-Cutoff

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CATALOG NUMBER: ENV-SA1E-727-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 783.3 | 0.0 | 783.3 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 3639.7 | 0.0 | 3639.7 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 4423.0 | 0.0 | 4423.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.5 | 2.7 |
| 10°-20° | 223.6 | 5.1 |
| 20°-30° | 318.9 | 7.2 |
| 30°-40° | 467.8 | 10.6 |
| 40°-50° | 689.7 | 15.6 |
| 50°-60° | 1021.7 | 23.1 |
| 60°-70° | 1088.8 | 24.6 |
| 70°-80° | 451.6 | 10.2 |
| 80°-90° | 43.4 | 1.0 |
| 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° | 4423.0 | 100.0 |
| 0°-180° | 4423.0 | 100.0 |



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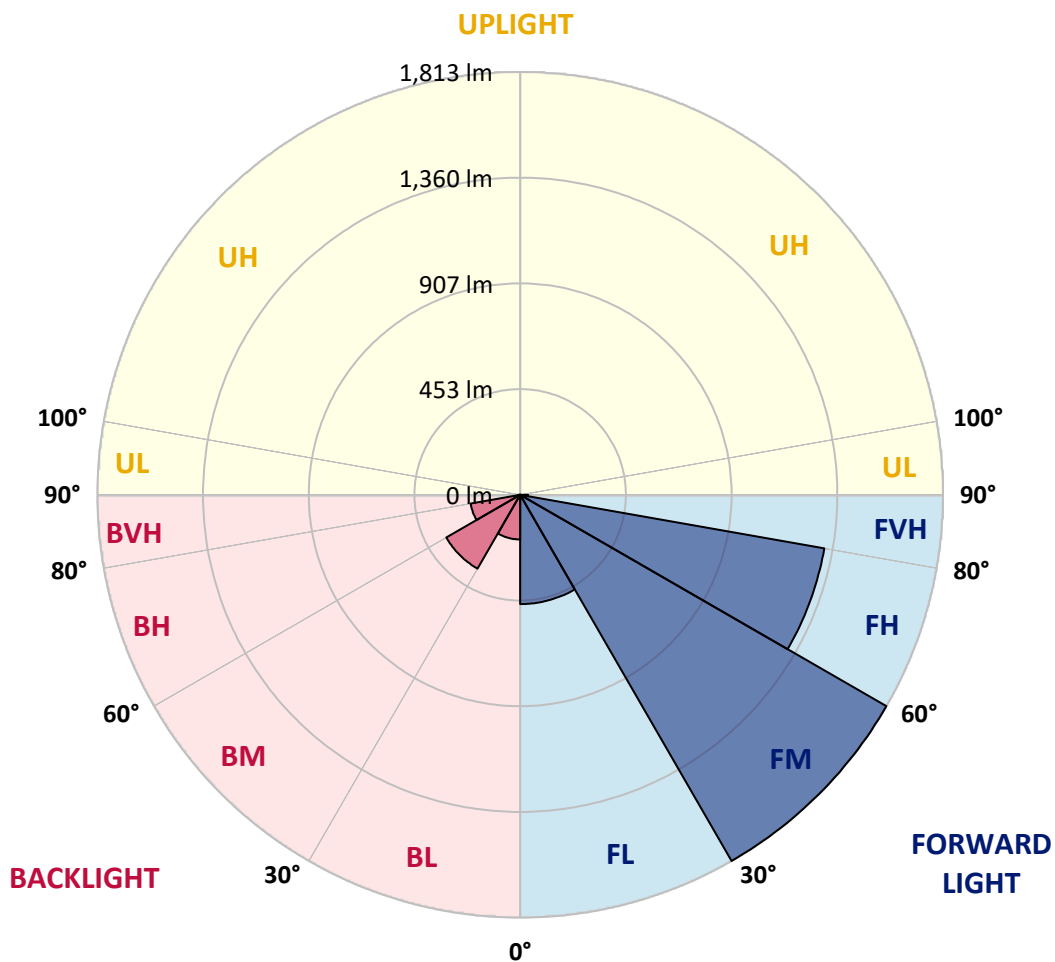
CATALOG NUMBER: ENV-SA1E-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 468.5 | 10.6 | | | |
| FM | (30°-60°) | 1813.5 | 41.0 | | | |
| FH | (60°-80°) | 1324.5 | 29.9 | | | G1/1800 |
| FVH | (80°-90°) | 33.2 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 191.5 | 4.3 | B1/500 | | |
| BM | (30°-60°) | 365.7 | 8.3 | B1/1000 | | |
| BH | (60°-80°) | 215.9 | 4.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 10.2 | 0.2 | | | 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 Short



REPORT NUMBER: P401617

CATALOG NUMBER: ENV-SA1E-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 |
| 2.5° | 1631.4 | 1628.9 | 1652.3 | 1700.8 | 1730.9 | 1749.3 | 1752.7 | 1771.9 | 1752.7 | 1742.6 | 1706.7 |
| 5° | 1583.7 | 1582.9 | 1628.1 | 1734.3 | 1821.2 | 1886.4 | 1918.2 | 1896.5 | 1863.0 | 1797.0 | 1716.7 |
| 7.5° | 1451.6 | 1451.6 | 1536.9 | 1679.1 | 1824.6 | 1937.5 | 1975.9 | 1935.8 | 1856.3 | 1723.4 | 1579.6 |
| 10° | 1343.8 | 1353.8 | 1435.7 | 1605.5 | 1766.9 | 1890.6 | 1933.3 | 1902.3 | 1798.6 | 1626.4 | 1457.5 |
| 12.5° | 1279.4 | 1285.2 | 1376.4 | 1547.0 | 1697.5 | 1797.8 | 1823.7 | 1814.5 | 1739.3 | 1552.0 | 1373.0 |
| 15° | 1285.2 | 1293.6 | 1398.1 | 1537.8 | 1635.6 | 1675.7 | 1684.9 | 1696.6 | 1665.7 | 1521.9 | 1345.4 |
| 17.5° | 1377.2 | 1383.1 | 1488.4 | 1578.7 | 1574.5 | 1562.0 | 1565.3 | 1584.6 | 1621.4 | 1547.0 | 1401.5 |
| 20° | 1524.4 | 1539.4 | 1645.6 | 1647.3 | 1542.8 | 1484.2 | 1469.2 | 1501.0 | 1600.5 | 1613.0 | 1521.0 |
| 22.5° | 1713.4 | 1719.2 | 1827.1 | 1762.7 | 1546.1 | 1430.7 | 1413.2 | 1449.1 | 1607.2 | 1720.0 | 1686.6 |
| 25° | 1932.4 | 1953.3 | 2011.9 | 1912.4 | 1594.6 | 1423.2 | 1411.5 | 1441.6 | 1631.4 | 1833.8 | 1857.2 |
| 27.5° | 2080.4 | 2097.2 | 2153.2 | 2014.4 | 1638.1 | 1427.4 | 1405.6 | 1442.4 | 1660.7 | 1940.8 | 2039.5 |
| 30° | 2212.6 | 2224.3 | 2245.2 | 2067.9 | 1687.4 | 1448.3 | 1413.2 | 1465.8 | 1676.6 | 1963.4 | 2157.4 |
| 32.5° | 2337.2 | 2351.4 | 2338.8 | 2132.3 | 1741.8 | 1487.6 | 1427.4 | 1515.2 | 1710.8 | 2008.5 | 2260.2 |
| 35° | 2497.7 | 2498.5 | 2455.9 | 2196.7 | 1803.7 | 1534.4 | 1469.2 | 1585.4 | 1777.7 | 2078.8 | 2370.6 |
| 37.5° | 2688.4 | 2690.0 | 2582.2 | 2262.7 | 1873.9 | 1613.0 | 1567.9 | 1694.1 | 1874.7 | 2159.9 | 2528.6 |
| 40° | 2854.8 | 2861.4 | 2718.5 | 2338.8 | 1960.0 | 1766.0 | 1761.9 | 1866.4 | 1999.3 | 2267.7 | 2698.4 |
| 42.5° | 2999.4 | 3018.6 | 2843.9 | 2402.4 | 2082.1 | 2001.0 | 2011.0 | 2106.4 | 2150.7 | 2358.1 | 2803.7 |
| 45° | 3145.7 | 3144.9 | 2946.7 | 2465.9 | 2286.1 | 2303.7 | 2399.0 | 2394.8 | 2322.1 | 2406.6 | 2886.5 |
| 47.5° | 3236.9 | 3232.7 | 3009.4 | 2569.6 | 2561.3 | 2729.3 | 2830.5 | 2775.3 | 2511.9 | 2458.4 | 2990.2 |
| 50° | 3272.0 | 3270.3 | 3058.8 | 2701.7 | 2841.4 | 3114.8 | 3259.5 | 3149.1 | 2744.4 | 2545.4 | 3114.0 |
| 52.5° | 3371.5 | 3363.2 | 3172.5 | 2852.2 | 3094.7 | 3486.1 | 3605.7 | 3482.7 | 2976.0 | 2701.7 | 3257.8 |
| 55° | 3527.1 | 3529.6 | 3368.2 | 3028.7 | 3297.9 | 3747.8 | 3894.1 | 3784.6 | 3212.6 | 2916.6 | 3455.1 |
| 57.5° | 3631.6 | 3639.1 | 3584.7 | 3225.2 | 3515.3 | 3930.9 | 4073.1 | 4042.1 | 3527.9 | 3173.3 | 3686.8 |
| 58° | 3641.6 | 3647.5 | 3619.0 | 3262.8 | 3548.0 | 3951.8 | 4097.3 | 4075.6 | 3597.3 | 3255.3 | 3742.0 |
| 60° | 3577.2 | 3594.8 | 3685.9 | 3470.2 | 3682.6 | 3996.2 | 4101.5 | 4120.7 | 3812.2 | 3521.2 | 3930.9 |
| 62.5° | 3402.5 | 3408.3 | 3573.9 | 3702.6 | 3774.6 | 3886.6 | 3896.6 | 3946.8 | 3900.8 | 3833.1 | 4099.8 |
| 65° | 3188.4 | 3188.4 | 3367.3 | 3713.5 | 3536.2 | 3517.9 | 3459.3 | 3509.5 | 3642.4 | 4028.8 | 4088.1 |
| 67.5° | 2816.3 | 2818.8 | 3047.1 | 3308.0 | 2931.7 | 2868.1 | 2830.5 | 2848.9 | 3132.4 | 3865.7 | 3860.7 |
| 70° | 2276.1 | 2274.4 | 2509.4 | 2678.3 | 2175.8 | 2121.4 | 2166.6 | 2160.7 | 2544.5 | 3435.1 | 3370.7 |
| 72.5° | 1609.7 | 1623.9 | 1865.5 | 2068.7 | 1477.5 | 1273.5 | 1472.5 | 1549.5 | 1914.0 | 2895.7 | 2608.1 |
| 75° | 906.4 | 925.7 | 1123.0 | 1437.4 | 932.4 | 861.3 | 963.3 | 1072.8 | 1383.9 | 2305.4 | 1751.8 |
| 77.5° | 454.9 | 462.4 | 575.3 | 691.5 | 565.3 | 656.4 | 650.6 | 755.1 | 949.1 | 1555.3 | 1001.8 |
| 80° | 262.6 | 277.6 | 316.1 | 357.1 | 316.1 | 416.4 | 483.3 | 568.6 | 584.5 | 804.4 | 558.6 |
| 82.5° | 105.4 | 117.9 | 148.0 | 168.1 | 131.3 | 123.8 | 84.5 | 265.9 | 352.0 | 388.8 | 214.1 |
| 85° | 0.0 | 0.0 | 0.8 | 1.7 | 2.5 | 2.5 | 4.2 | 46.8 | 86.1 | 19.2 | 35.1 |
| 87.5° | 0.0 | 0.0 | 0.8 | 0.8 | 1.7 | 2.5 | 3.3 | 5.9 | 7.5 | 9.2 | 31.8 |
| 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: ENV-SA1E-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 |
| 2.5° | 1693.3 | 1684.1 | 1653.1 | 1606.3 | 1577.1 | 1531.9 | 1513.5 | 1470.9 | 1449.1 | 1413.2 | 1413.2 |
| 5° | 1676.6 | 1638.9 | 1561.2 | 1460.0 | 1388.1 | 1312.8 | 1288.6 | 1238.4 | 1202.4 | 1159.8 | 1142.2 |
| 7.5° | 1524.4 | 1471.7 | 1350.4 | 1232.5 | 1118.0 | 1041.9 | 966.6 | 915.6 | 867.1 | 832.0 | 837.0 |
| 10° | 1384.7 | 1309.5 | 1176.5 | 1026.8 | 908.1 | 828.7 | 760.9 | 701.6 | 651.4 | 602.1 | 594.5 |
| 12.5° | 1293.6 | 1207.5 | 1048.6 | 888.0 | 799.4 | 740.9 | 678.2 | 612.9 | 551.0 | 496.7 | 475.0 |
| 15° | 1255.1 | 1161.5 | 984.2 | 832.8 | 751.7 | 676.5 | 603.7 | 523.5 | 452.4 | 387.2 | 369.6 |
| 17.5° | 1296.9 | 1184.9 | 978.3 | 796.1 | 683.2 | 588.7 | 487.5 | 399.7 | 316.1 | 269.3 | 255.0 |
| 20° | 1410.7 | 1265.2 | 997.6 | 759.3 | 607.1 | 485.0 | 361.2 | 261.7 | 214.9 | 186.5 | 177.3 |
| 22.5° | 1575.4 | 1398.1 | 1030.2 | 723.3 | 530.1 | 361.2 | 249.2 | 189.0 | 161.4 | 146.3 | 142.2 |
| 25° | 1754.3 | 1569.5 | 1090.4 | 693.2 | 453.2 | 268.4 | 184.8 | 154.7 | 138.0 | 127.1 | 122.9 |
| 27.5° | 1955.8 | 1739.3 | 1164.0 | 670.6 | 382.1 | 214.9 | 158.9 | 136.3 | 122.9 | 115.4 | 112.0 |
| 30° | 2082.1 | 1861.4 | 1220.0 | 630.5 | 333.6 | 195.7 | 151.4 | 128.8 | 114.6 | 108.7 | 106.2 |
| 32.5° | 2198.3 | 1957.5 | 1273.5 | 584.5 | 296.8 | 173.1 | 147.2 | 135.5 | 118.7 | 107.0 | 102.0 |
| 35° | 2326.3 | 2056.2 | 1299.4 | 556.9 | 272.6 | 150.5 | 121.2 | 105.4 | 96.2 | 94.5 | 92.0 |
| 37.5° | 2516.9 | 2173.3 | 1316.2 | 541.9 | 257.5 | 137.1 | 112.9 | 95.3 | 84.5 | 74.4 | 70.2 |
| 40° | 2697.5 | 2294.5 | 1324.5 | 527.6 | 250.0 | 128.8 | 107.9 | 90.3 | 78.6 | 69.4 | 65.2 |
| 42.5° | 2838.9 | 2404.9 | 1329.5 | 517.6 | 236.6 | 123.8 | 103.7 | 87.0 | 74.4 | 65.2 | 61.0 |
| 45° | 2954.3 | 2532.8 | 1325.4 | 514.3 | 225.8 | 127.1 | 102.0 | 84.5 | 71.1 | 61.9 | 57.7 |
| 47.5° | 3067.1 | 2671.6 | 1341.2 | 510.1 | 214.9 | 122.1 | 102.9 | 83.6 | 68.6 | 59.4 | 55.2 |
| 50° | 3215.2 | 2839.7 | 1398.9 | 498.4 | 207.4 | 114.6 | 111.2 | 84.5 | 67.7 | 57.7 | 54.4 |
| 52.5° | 3406.6 | 3072.2 | 1503.5 | 485.8 | 198.2 | 107.9 | 116.2 | 84.5 | 66.1 | 56.0 | 51.8 |
| 55° | 3639.1 | 3333.1 | 1618.9 | 467.4 | 182.3 | 99.5 | 111.2 | 84.5 | 64.4 | 55.2 | 50.2 |
| 57.5° | 3828.9 | 3565.5 | 1710.0 | 445.7 | 153.0 | 89.5 | 102.0 | 81.1 | 60.2 | 51.8 | 47.7 |
| 58° | 3845.6 | 3592.3 | 1722.6 | 439.8 | 149.7 | 87.8 | 99.5 | 80.3 | 58.5 | 51.0 | 46.8 |
| 60° | 3913.4 | 3635.8 | 1727.6 | 408.1 | 124.6 | 83.6 | 86.1 | 77.8 | 55.2 | 47.7 | 44.3 |
| 62.5° | 3890.0 | 3491.9 | 1621.4 | 352.0 | 111.2 | 76.1 | 71.9 | 79.4 | 51.0 | 43.5 | 40.1 |
| 65° | 3773.7 | 3209.3 | 1420.7 | 315.2 | 112.0 | 67.7 | 61.9 | 69.4 | 46.8 | 39.3 | 36.0 |
| 67.5° | 3496.9 | 2780.3 | 1153.9 | 295.2 | 117.1 | 60.2 | 53.5 | 51.8 | 41.8 | 35.1 | 32.6 |
| 70° | 2982.7 | 2278.6 | 874.7 | 277.6 | 123.8 | 53.5 | 49.3 | 46.0 | 38.5 | 32.6 | 29.3 |
| 72.5° | 2196.7 | 1687.4 | 636.3 | 260.1 | 120.4 | 47.7 | 46.0 | 41.8 | 35.1 | 29.3 | 27.6 |
| 75° | 1370.5 | 980.0 | 435.7 | 212.4 | 107.9 | 41.8 | 42.6 | 39.3 | 31.8 | 27.6 | 25.1 |
| 77.5° | 800.2 | 688.2 | 214.9 | 158.0 | 74.4 | 36.8 | 37.6 | 36.0 | 32.6 | 25.9 | 24.2 |
| 80° | 479.1 | 428.1 | 92.0 | 67.7 | 41.0 | 32.6 | 31.8 | 33.4 | 30.9 | 24.2 | 22.6 |
| 82.5° | 207.4 | 185.6 | 44.3 | 37.6 | 33.4 | 28.4 | 27.6 | 28.4 | 26.8 | 20.1 | 19.2 |
| 85° | 11.7 | 30.9 | 20.9 | 27.6 | 25.1 | 20.9 | 20.9 | 21.7 | 19.2 | 15.9 | 15.9 |
| 87.5° | 10.9 | 23.4 | 13.4 | 16.7 | 18.4 | 15.9 | 16.7 | 16.7 | 15.9 | 14.2 | 13.4 |
| 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: ENV-SA1E-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 |
| 2.5° | 1393.9 | 1384.7 | 1357.1 | 1347.1 | 1303.6 | 1314.5 | 1317.8 | 1313.7 | 1315.3 | 1318.7 | 1331.2 |
| 5° | 1154.8 | 1139.7 | 1103.8 | 1080.4 | 1067.8 | 1059.5 | 1020.2 | 1021.0 | 1026.8 | 1004.3 | 1033.5 |
| 7.5° | 820.3 | 837.0 | 840.4 | 818.6 | 805.3 | 776.8 | 740.9 | 720.8 | 686.5 | 705.7 | 709.9 |
| 10° | 587.0 | 578.6 | 594.5 | 587.0 | 566.1 | 555.2 | 516.8 | 513.4 | 510.1 | 507.6 | 531.8 |
| 12.5° | 447.4 | 422.3 | 403.9 | 408.1 | 392.2 | 365.4 | 358.7 | 359.6 | 362.9 | 362.9 | 369.6 |
| 15° | 354.5 | 316.1 | 286.8 | 269.3 | 271.8 | 245.0 | 237.5 | 212.4 | 209.0 | 201.5 | 203.2 |
| 17.5° | 248.3 | 232.5 | 214.9 | 194.8 | 186.5 | 162.2 | 133.0 | 119.6 | 109.5 | 111.2 | 116.2 |
| 20° | 171.4 | 164.7 | 159.7 | 149.7 | 141.3 | 112.9 | 94.5 | 88.6 | 87.8 | 89.5 | 91.1 |
| 22.5° | 138.0 | 131.3 | 126.3 | 122.9 | 112.0 | 91.1 | 81.1 | 76.9 | 76.9 | 76.9 | 77.8 |
| 25° | 118.7 | 112.0 | 105.4 | 105.4 | 95.3 | 79.4 | 71.9 | 68.6 | 67.7 | 66.9 | 68.6 |
| 27.5° | 110.4 | 101.2 | 94.5 | 90.3 | 82.8 | 70.2 | 63.6 | 60.2 | 59.4 | 59.4 | 60.2 |
| 30° | 102.0 | 92.8 | 86.1 | 80.3 | 71.9 | 62.7 | 56.0 | 53.5 | 51.8 | 51.8 | 52.7 |
| 32.5° | 97.0 | 87.8 | 79.4 | 71.9 | 62.7 | 55.2 | 49.3 | 46.0 | 44.3 | 45.2 | 46.0 |
| 35° | 86.1 | 78.6 | 71.1 | 63.6 | 55.2 | 48.5 | 42.6 | 39.3 | 38.5 | 38.5 | 39.3 |
| 37.5° | 67.7 | 61.9 | 60.2 | 56.0 | 48.5 | 41.8 | 36.0 | 32.6 | 31.8 | 31.8 | 32.6 |
| 40° | 61.0 | 53.5 | 50.2 | 48.5 | 44.3 | 36.0 | 29.3 | 25.9 | 25.9 | 25.1 | 26.8 |
| 42.5° | 56.0 | 48.5 | 42.6 | 41.0 | 38.5 | 30.9 | 23.4 | 20.9 | 20.1 | 20.1 | 20.9 |
| 45° | 52.7 | 44.3 | 36.8 | 32.6 | 32.6 | 25.1 | 19.2 | 15.9 | 15.1 | 15.1 | 15.9 |
| 47.5° | 51.0 | 41.8 | 32.6 | 26.8 | 25.9 | 20.9 | 15.1 | 11.7 | 10.9 | 10.9 | 10.9 |
| 50° | 49.3 | 38.5 | 29.3 | 22.6 | 20.1 | 17.6 | 11.7 | 9.2 | 8.4 | 8.4 | 8.4 |
| 52.5° | 46.8 | 36.8 | 26.8 | 20.1 | 15.9 | 13.4 | 9.2 | 6.7 | 5.9 | 5.0 | 5.9 |
| 55° | 45.2 | 34.3 | 25.9 | 18.4 | 13.4 | 10.0 | 6.7 | 5.0 | 4.2 | 4.2 | 4.2 |
| 57.5° | 42.6 | 31.8 | 23.4 | 17.6 | 12.5 | 7.5 | 5.0 | 3.3 | 2.5 | 2.5 | 3.3 |
| 58° | 41.8 | 31.8 | 22.6 | 16.7 | 11.7 | 7.5 | 5.0 | 3.3 | 2.5 | 2.5 | 3.3 |
| 60° | 39.3 | 29.3 | 21.7 | 15.1 | 10.9 | 6.7 | 4.2 | 2.5 | 1.7 | 1.7 | 2.5 |
| 62.5° | 36.8 | 26.8 | 19.2 | 13.4 | 9.2 | 5.9 | 3.3 | 1.7 | 0.8 | 0.8 | 0.8 |
| 65° | 32.6 | 24.2 | 16.7 | 12.5 | 7.5 | 4.2 | 2.5 | 0.8 | 0.0 | 0.0 | 0.0 |
| 67.5° | 29.3 | 22.6 | 15.1 | 10.9 | 6.7 | 3.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 26.8 | 20.9 | 13.4 | 9.2 | 5.9 | 2.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 25.1 | 19.2 | 12.5 | 8.4 | 4.2 | 2.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 24.2 | 18.4 | 12.5 | 7.5 | 4.2 | 2.5 | 1.7 | 0.8 | 0.0 | 0.0 | 0.8 |
| 77.5° | 23.4 | 18.4 | 12.5 | 7.5 | 5.0 | 2.5 | 2.5 | 1.7 | 1.7 | 0.8 | 2.5 |
| 80° | 21.7 | 16.7 | 10.9 | 6.7 | 4.2 | 3.3 | 2.5 | 1.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 18.4 | 13.4 | 9.2 | 6.7 | 4.2 | 2.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 15.1 | 10.9 | 7.5 | 4.2 | 2.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 13.4 | 8.4 | 5.9 | 3.3 | 1.7 | 0.8 | 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 | 0.0 |



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| 0° | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 | 1562.0 |
| 2.5° | 1342.1 | 1380.5 | 1396.4 | 1450.0 | 1473.4 | 1521.9 | 1563.7 | 1599.6 | 1617.2 | 1631.4 |
| 5° | 1041.1 | 1077.8 | 1117.2 | 1196.6 | 1265.2 | 1338.7 | 1430.7 | 1526.0 | 1553.6 | 1583.7 |
| 7.5° | 726.6 | 781.0 | 847.1 | 918.1 | 1016.0 | 1127.2 | 1259.3 | 1377.2 | 1436.6 | 1451.6 |
| 10° | 564.4 | 628.8 | 699.1 | 769.3 | 850.4 | 969.1 | 1102.1 | 1254.3 | 1317.8 | 1343.8 |
| 12.5° | 423.9 | 510.1 | 593.7 | 676.5 | 746.7 | 849.6 | 994.2 | 1175.7 | 1245.9 | 1279.4 |
| 15° | 255.0 | 352.0 | 454.9 | 566.1 | 663.9 | 784.3 | 947.4 | 1159.0 | 1247.6 | 1285.2 |
| 17.5° | 127.1 | 173.9 | 268.4 | 435.7 | 580.3 | 730.0 | 946.6 | 1219.2 | 1328.7 | 1377.2 |
| 20° | 94.5 | 107.0 | 143.0 | 271.8 | 482.5 | 684.8 | 956.6 | 1322.0 | 1483.4 | 1524.4 |
| 22.5° | 81.1 | 90.3 | 102.9 | 158.9 | 361.2 | 643.0 | 991.7 | 1458.3 | 1659.0 | 1713.4 |
| 25° | 71.1 | 78.6 | 88.6 | 109.5 | 247.5 | 593.7 | 1057.8 | 1650.6 | 1858.0 | 1932.4 |
| 27.5° | 62.7 | 69.4 | 77.8 | 92.0 | 165.6 | 500.9 | 1095.4 | 1812.0 | 2018.6 | 2080.4 |
| 30° | 55.2 | 60.2 | 68.6 | 78.6 | 122.1 | 387.2 | 1130.5 | 1954.2 | 2164.1 | 2212.6 |
| 32.5° | 48.5 | 52.7 | 59.4 | 66.9 | 92.8 | 293.5 | 1132.2 | 2076.3 | 2291.2 | 2337.2 |
| 35° | 41.0 | 46.0 | 51.0 | 57.7 | 73.6 | 229.1 | 1097.9 | 2197.5 | 2441.7 | 2497.7 |
| 37.5° | 34.3 | 38.5 | 44.3 | 50.2 | 66.9 | 177.3 | 1026.8 | 2339.7 | 2624.8 | 2688.4 |
| 40° | 29.3 | 33.4 | 38.5 | 45.2 | 59.4 | 128.8 | 913.1 | 2468.4 | 2796.2 | 2854.8 |
| 42.5° | 23.4 | 27.6 | 33.4 | 44.3 | 49.3 | 92.8 | 798.6 | 2592.2 | 2945.1 | 2999.4 |
| 45° | 18.4 | 23.4 | 30.9 | 42.6 | 41.0 | 65.2 | 699.9 | 2701.7 | 3073.0 | 3145.7 |
| 47.5° | 13.4 | 19.2 | 30.9 | 38.5 | 33.4 | 46.8 | 649.7 | 2807.1 | 3187.6 | 3236.9 |
| 50° | 10.0 | 15.9 | 33.4 | 32.6 | 28.4 | 40.1 | 657.2 | 2924.2 | 3240.2 | 3272.0 |
| 52.5° | 7.5 | 13.4 | 25.9 | 23.4 | 24.2 | 35.1 | 686.5 | 3078.9 | 3348.9 | 3371.5 |
| 55° | 6.7 | 10.0 | 15.9 | 17.6 | 21.7 | 33.4 | 679.0 | 3225.2 | 3487.7 | 3527.1 |
| 57.5° | 5.9 | 8.4 | 12.5 | 14.2 | 19.2 | 31.8 | 636.3 | 3289.6 | 3577.2 | 3631.6 |
| 58° | 5.0 | 8.4 | 11.7 | 14.2 | 19.2 | 30.9 | 625.5 | 3272.0 | 3573.0 | 3641.6 |
| 60° | 4.2 | 7.5 | 10.9 | 12.5 | 16.7 | 27.6 | 572.8 | 3123.2 | 3481.1 | 3577.2 |
| 62.5° | 3.3 | 5.0 | 8.4 | 9.2 | 13.4 | 22.6 | 471.6 | 2882.3 | 3283.7 | 3402.5 |
| 65° | 1.7 | 3.3 | 5.0 | 6.7 | 9.2 | 16.7 | 335.3 | 2597.2 | 3072.2 | 3188.4 |
| 67.5° | 0.0 | 1.7 | 3.3 | 4.2 | 5.9 | 12.5 | 193.2 | 2204.2 | 2724.3 | 2816.3 |
| 70° | 0.0 | 0.8 | 1.7 | 2.5 | 3.3 | 8.4 | 102.0 | 1618.0 | 2110.5 | 2276.1 |
| 72.5° | 0.8 | 0.8 | 0.8 | 0.0 | 1.7 | 6.7 | 45.2 | 959.9 | 1439.1 | 1609.7 |
| 75° | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 3.3 | 19.2 | 505.9 | 825.3 | 906.4 |
| 77.5° | 3.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.8 | 9.2 | 272.6 | 428.1 | 454.9 |
| 80° | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 91.1 | 256.7 | 262.6 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 110.4 | 105.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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 |

(END OF REPORT)