

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: P401923

Luminaire Tested: **ENT-SA1F-827-U-SLL-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401923
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: ENT-SA1F-827-U-SLL-HSS
Description: ENTRI LED LUMINAIRE
(1) 80 CRI, 2700K, 1200mA 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: 4303 lumens
Efficiency: N/A
Efficacy: 65.1 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): 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

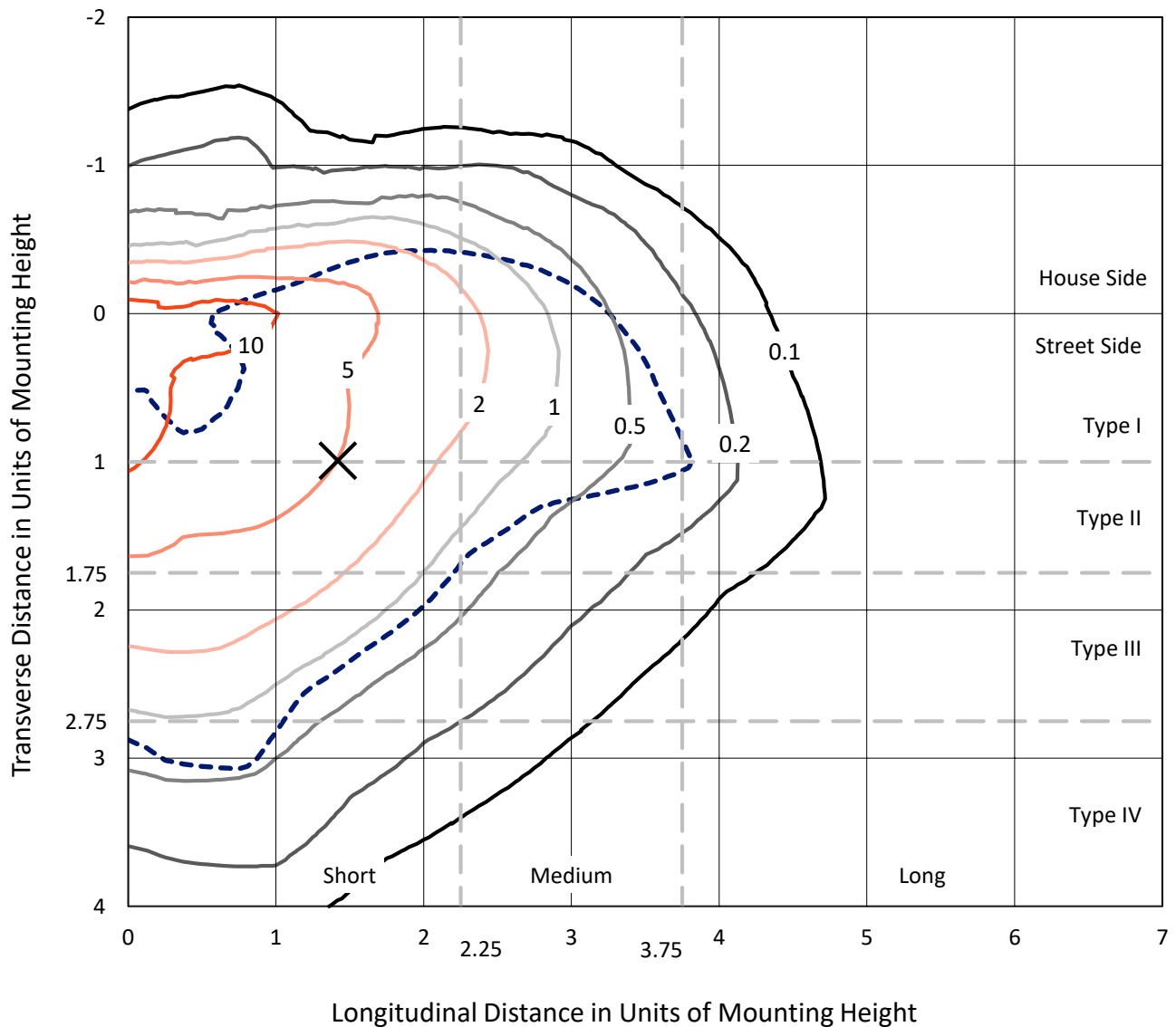


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

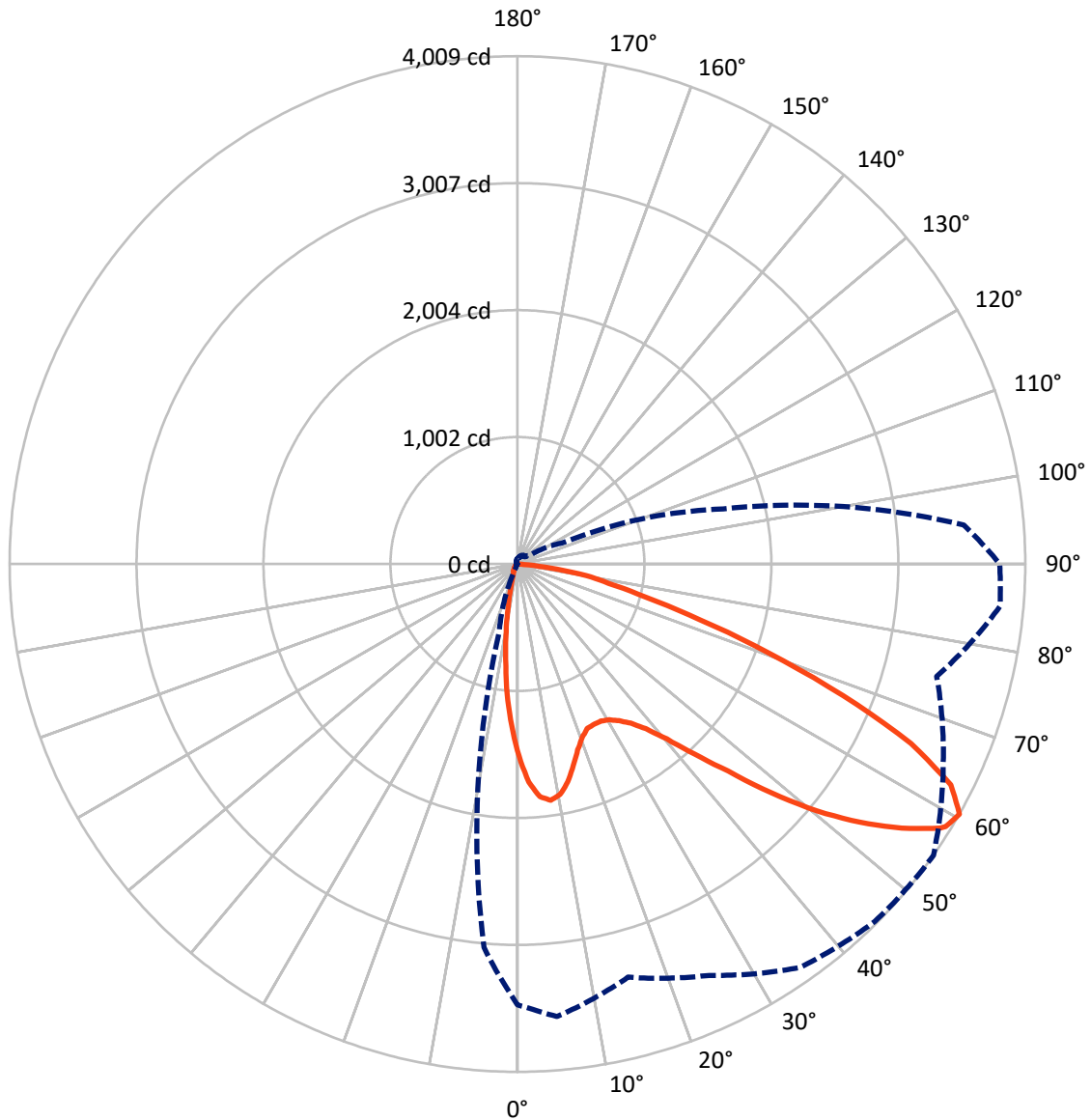


Based on 10 foot mounting height. Maximum calculated value = 17.9 fc
 Type III - Short - Semi-Cutoff

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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 | 762.0 | 0.0 | 762.0 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 3541.0 | 0.0 | 3541.0 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 4303.0 | 0.0 | 4303.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.3 | 2.7 |
| 10°-20° | 217.5 | 5.1 |
| 20°-30° | 310.3 | 7.2 |
| 30°-40° | 455.1 | 10.6 |
| 40°-50° | 671.0 | 15.6 |
| 50°-60° | 994.0 | 23.1 |
| 60°-70° | 1059.3 | 24.6 |
| 70°-80° | 439.4 | 10.2 |
| 80°-90° | 42.2 | 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° | 4303.0 | 100.0 |
| 0°-180° | 4303.0 | 100.0 |



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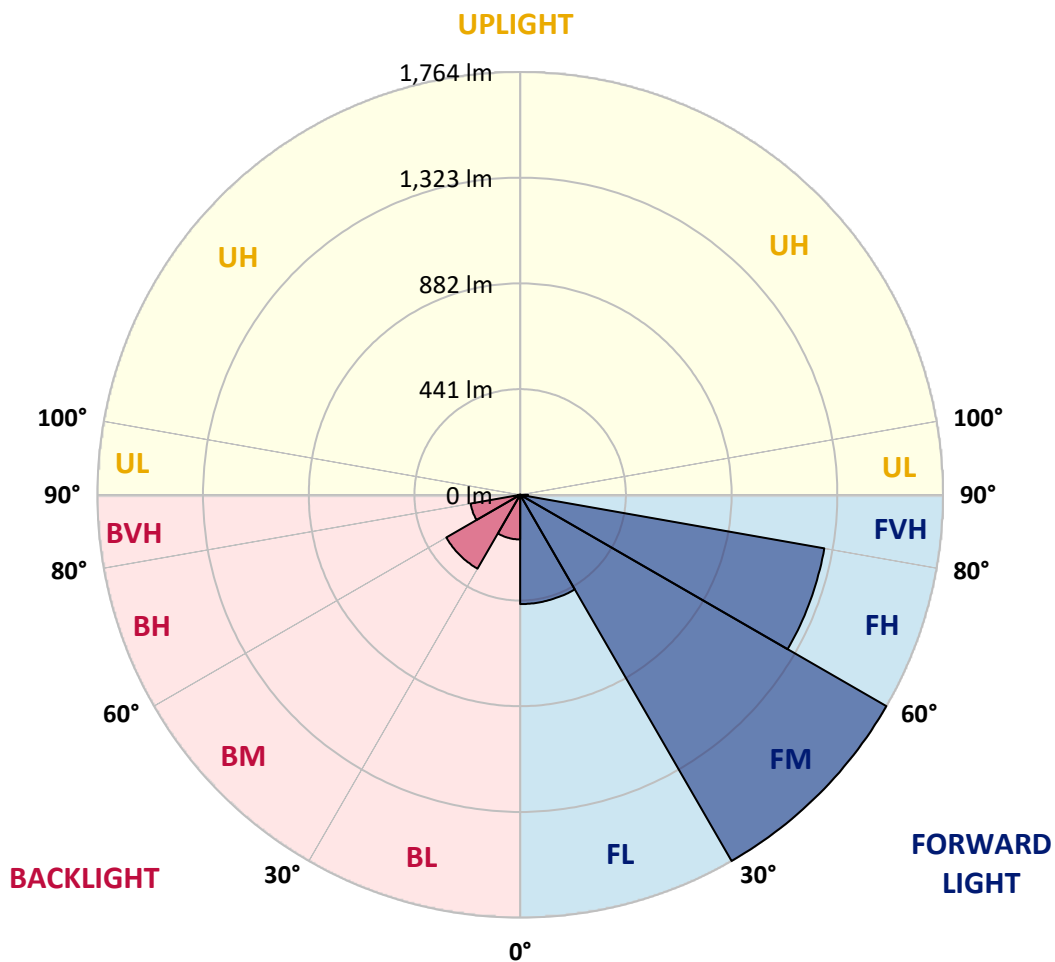
CATALOG NUMBER: ENT-SA1F-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 455.8 | 10.6 | | | |
| FM | (30°-60°) | 1764.3 | 41.0 | | | |
| FH | (60°-80°) | 1288.6 | 29.9 | | | G1/1800 |
| FVH | (80°-90°) | 32.3 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 186.3 | 4.3 | B1/500 | | |
| BM | (30°-60°) | 355.8 | 8.3 | B1/1000 | | |
| BH | (60°-80°) | 210.1 | 4.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 9.9 | 0.2 | | | G0/10 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 |
| 2.5° | 1587.1 | 1584.7 | 1607.5 | 1654.7 | 1684.0 | 1701.8 | 1705.1 | 1723.8 | 1705.1 | 1695.3 | 1660.4 |
| 5° | 1540.8 | 1540.0 | 1583.9 | 1687.2 | 1771.8 | 1835.3 | 1866.2 | 1845.0 | 1812.5 | 1748.2 | 1670.1 |
| 7.5° | 1412.2 | 1412.2 | 1495.2 | 1633.5 | 1775.1 | 1884.9 | 1922.3 | 1883.3 | 1806.0 | 1676.6 | 1536.7 |
| 10° | 1307.3 | 1317.1 | 1396.8 | 1561.9 | 1718.9 | 1839.3 | 1880.8 | 1850.7 | 1749.8 | 1582.3 | 1417.9 |
| 12.5° | 1244.7 | 1250.4 | 1339.0 | 1505.0 | 1651.4 | 1749.0 | 1774.3 | 1765.3 | 1692.1 | 1509.9 | 1335.8 |
| 15° | 1250.4 | 1258.5 | 1360.2 | 1496.0 | 1591.2 | 1630.3 | 1639.2 | 1650.6 | 1620.5 | 1480.6 | 1308.9 |
| 17.5° | 1339.8 | 1345.5 | 1448.0 | 1535.9 | 1531.8 | 1519.6 | 1522.9 | 1541.6 | 1577.4 | 1505.0 | 1363.4 |
| 20° | 1483.0 | 1497.7 | 1601.0 | 1602.6 | 1500.9 | 1444.0 | 1429.3 | 1460.2 | 1557.0 | 1569.2 | 1479.8 |
| 22.5° | 1666.9 | 1672.6 | 1777.5 | 1714.9 | 1504.2 | 1391.9 | 1374.8 | 1409.8 | 1563.6 | 1673.4 | 1640.8 |
| 25° | 1880.0 | 1900.3 | 1957.3 | 1860.5 | 1551.4 | 1384.6 | 1373.2 | 1402.5 | 1587.1 | 1784.0 | 1806.8 |
| 27.5° | 2024.0 | 2040.3 | 2094.8 | 1959.7 | 1593.7 | 1388.7 | 1367.5 | 1403.3 | 1615.6 | 1888.1 | 1984.1 |
| 30° | 2152.5 | 2163.9 | 2184.3 | 2011.8 | 1641.7 | 1409.0 | 1374.8 | 1426.1 | 1631.1 | 1910.1 | 2098.8 |
| 32.5° | 2273.7 | 2287.6 | 2275.4 | 2074.4 | 1694.5 | 1447.2 | 1388.7 | 1474.1 | 1664.4 | 1954.0 | 2198.9 |
| 35° | 2429.9 | 2430.7 | 2389.3 | 2137.1 | 1754.7 | 1492.8 | 1429.3 | 1542.4 | 1729.5 | 2022.4 | 2306.3 |
| 37.5° | 2615.4 | 2617.0 | 2512.1 | 2201.3 | 1823.1 | 1569.2 | 1525.3 | 1648.2 | 1823.9 | 2101.3 | 2460.0 |
| 40° | 2777.3 | 2783.8 | 2644.7 | 2275.4 | 1906.9 | 1718.1 | 1714.1 | 1815.7 | 1945.1 | 2206.2 | 2625.2 |
| 42.5° | 2918.0 | 2936.7 | 2766.7 | 2337.2 | 2025.6 | 1946.7 | 1956.5 | 2049.2 | 2092.3 | 2294.1 | 2727.7 |
| 45° | 3060.4 | 3059.6 | 2866.8 | 2399.0 | 2224.1 | 2241.2 | 2333.9 | 2329.9 | 2259.1 | 2341.3 | 2808.2 |
| 47.5° | 3149.1 | 3145.0 | 2927.8 | 2499.9 | 2491.8 | 2655.3 | 2753.7 | 2700.0 | 2443.8 | 2391.7 | 2909.1 |
| 50° | 3183.2 | 3181.6 | 2975.8 | 2628.4 | 2764.3 | 3030.3 | 3171.0 | 3063.7 | 2669.9 | 2476.3 | 3029.5 |
| 52.5° | 3280.0 | 3271.9 | 3086.4 | 2774.9 | 3010.8 | 3391.5 | 3507.8 | 3388.2 | 2895.3 | 2628.4 | 3169.4 |
| 55° | 3431.4 | 3433.8 | 3276.8 | 2946.5 | 3208.5 | 3646.1 | 3788.5 | 3681.9 | 3125.5 | 2837.5 | 3361.4 |
| 57.5° | 3533.0 | 3540.4 | 3487.5 | 3137.7 | 3420.0 | 3824.3 | 3962.6 | 3932.5 | 3432.2 | 3087.2 | 3586.7 |
| 58° | 3542.8 | 3548.5 | 3520.8 | 3174.3 | 3451.7 | 3844.6 | 3986.2 | 3965.0 | 3499.7 | 3167.0 | 3640.4 |
| 60° | 3480.2 | 3497.3 | 3585.9 | 3376.0 | 3582.7 | 3887.7 | 3990.2 | 4008.9 | 3708.8 | 3425.7 | 3824.3 |
| 62.5° | 3310.1 | 3315.8 | 3476.9 | 3602.2 | 3672.2 | 3781.2 | 3790.9 | 3839.7 | 3795.0 | 3729.1 | 3988.6 |
| 65° | 3101.9 | 3101.9 | 3276.0 | 3612.8 | 3440.3 | 3422.4 | 3365.5 | 3414.3 | 3543.6 | 3919.5 | 3977.2 |
| 67.5° | 2739.9 | 2742.3 | 2964.4 | 3218.2 | 2852.1 | 2790.3 | 2753.7 | 2771.6 | 3047.4 | 3760.8 | 3755.9 |
| 70° | 2214.4 | 2212.7 | 2441.3 | 2605.7 | 2116.7 | 2063.9 | 2107.8 | 2102.1 | 2475.5 | 3341.9 | 3279.2 |
| 72.5° | 1566.0 | 1579.8 | 1814.9 | 2012.6 | 1437.5 | 1239.0 | 1432.6 | 1507.4 | 1862.1 | 2817.2 | 2537.3 |
| 75° | 881.8 | 900.5 | 1092.5 | 1398.4 | 907.1 | 837.9 | 937.2 | 1043.7 | 1346.3 | 2242.8 | 1704.3 |
| 77.5° | 442.5 | 449.9 | 559.7 | 672.8 | 549.9 | 638.6 | 632.9 | 734.6 | 923.3 | 1513.1 | 974.6 |
| 80° | 255.4 | 270.1 | 307.5 | 347.4 | 307.5 | 405.1 | 470.2 | 553.2 | 568.6 | 782.6 | 543.4 |
| 82.5° | 102.5 | 114.7 | 144.0 | 163.5 | 127.7 | 120.4 | 82.2 | 258.7 | 342.5 | 378.3 | 208.3 |
| 85° | 0.0 | 0.0 | 0.8 | 1.6 | 2.4 | 2.4 | 4.1 | 45.6 | 83.8 | 18.7 | 34.2 |
| 87.5° | 0.0 | 0.0 | 0.8 | 0.8 | 1.6 | 2.4 | 3.3 | 5.7 | 7.3 | 8.9 | 30.9 |
| 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-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 |
| 2.5° | 1647.3 | 1638.4 | 1608.3 | 1562.7 | 1534.3 | 1490.3 | 1472.4 | 1431.0 | 1409.8 | 1374.8 | 1374.8 |
| 5° | 1631.1 | 1594.5 | 1518.8 | 1420.4 | 1350.4 | 1277.2 | 1253.6 | 1204.8 | 1169.8 | 1128.3 | 1111.2 |
| 7.5° | 1483.0 | 1431.8 | 1313.8 | 1199.1 | 1087.7 | 1013.6 | 940.4 | 890.8 | 843.6 | 809.4 | 814.3 |
| 10° | 1347.2 | 1273.9 | 1144.6 | 999.0 | 883.5 | 806.2 | 740.3 | 682.5 | 633.7 | 585.7 | 578.4 |
| 12.5° | 1258.5 | 1174.7 | 1020.1 | 863.9 | 777.7 | 720.8 | 659.8 | 596.3 | 536.1 | 483.2 | 462.1 |
| 15° | 1221.1 | 1130.0 | 957.5 | 810.2 | 731.3 | 658.1 | 587.3 | 509.3 | 440.1 | 376.7 | 359.6 |
| 17.5° | 1261.7 | 1152.7 | 951.8 | 774.5 | 664.6 | 572.7 | 474.3 | 388.9 | 307.5 | 261.9 | 248.1 |
| 20° | 1372.4 | 1230.8 | 970.5 | 738.7 | 590.6 | 471.8 | 351.4 | 254.6 | 209.1 | 181.4 | 172.5 |
| 22.5° | 1532.6 | 1360.2 | 1002.2 | 703.7 | 515.8 | 351.4 | 242.4 | 183.9 | 157.0 | 142.4 | 138.3 |
| 25° | 1706.7 | 1526.9 | 1060.8 | 674.4 | 440.9 | 261.1 | 179.8 | 150.5 | 134.2 | 123.7 | 119.6 |
| 27.5° | 1902.8 | 1692.1 | 1132.4 | 652.4 | 371.8 | 209.1 | 154.6 | 132.6 | 119.6 | 112.3 | 109.0 |
| 30° | 2025.6 | 1810.9 | 1186.9 | 613.4 | 324.6 | 190.4 | 147.2 | 125.3 | 111.4 | 105.8 | 103.3 |
| 32.5° | 2138.7 | 1904.4 | 1239.0 | 568.6 | 288.8 | 168.4 | 143.2 | 131.8 | 115.5 | 104.1 | 99.2 |
| 35° | 2263.2 | 2000.4 | 1264.2 | 541.8 | 265.2 | 146.4 | 118.0 | 102.5 | 93.6 | 91.9 | 89.5 |
| 37.5° | 2448.6 | 2114.3 | 1280.5 | 527.2 | 250.6 | 133.4 | 109.8 | 92.7 | 82.2 | 72.4 | 68.3 |
| 40° | 2624.4 | 2232.3 | 1288.6 | 513.3 | 243.2 | 125.3 | 104.9 | 87.9 | 76.5 | 67.5 | 63.5 |
| 42.5° | 2761.8 | 2339.6 | 1293.5 | 503.6 | 230.2 | 120.4 | 100.9 | 84.6 | 72.4 | 63.5 | 59.4 |
| 45° | 2874.1 | 2464.1 | 1289.4 | 500.3 | 219.6 | 123.7 | 99.2 | 82.2 | 69.1 | 60.2 | 56.1 |
| 47.5° | 2983.9 | 2599.1 | 1304.9 | 496.2 | 209.1 | 118.8 | 100.1 | 81.4 | 66.7 | 57.8 | 53.7 |
| 50° | 3127.9 | 2762.7 | 1361.0 | 484.8 | 201.7 | 111.4 | 108.2 | 82.2 | 65.9 | 56.1 | 52.9 |
| 52.5° | 3314.2 | 2988.8 | 1462.7 | 472.6 | 192.8 | 104.9 | 113.1 | 82.2 | 64.3 | 54.5 | 50.4 |
| 55° | 3540.4 | 3242.6 | 1574.9 | 454.7 | 177.3 | 96.8 | 108.2 | 82.2 | 62.6 | 53.7 | 48.8 |
| 57.5° | 3725.0 | 3468.8 | 1663.6 | 433.6 | 148.9 | 87.0 | 99.2 | 78.9 | 58.6 | 50.4 | 46.4 |
| 58° | 3741.3 | 3494.8 | 1675.8 | 427.9 | 145.6 | 85.4 | 96.8 | 78.1 | 56.9 | 49.6 | 45.6 |
| 60° | 3807.2 | 3537.1 | 1680.7 | 397.0 | 121.2 | 81.4 | 83.8 | 75.7 | 53.7 | 46.4 | 43.1 |
| 62.5° | 3784.4 | 3397.2 | 1577.4 | 342.5 | 108.2 | 74.0 | 70.0 | 77.3 | 49.6 | 42.3 | 39.0 |
| 65° | 3671.3 | 3122.2 | 1382.1 | 306.7 | 109.0 | 65.9 | 60.2 | 67.5 | 45.6 | 38.2 | 35.0 |
| 67.5° | 3402.1 | 2704.9 | 1122.6 | 287.2 | 113.9 | 58.6 | 52.1 | 50.4 | 40.7 | 34.2 | 31.7 |
| 70° | 2901.8 | 2216.8 | 850.9 | 270.1 | 120.4 | 52.1 | 48.0 | 44.7 | 37.4 | 31.7 | 28.5 |
| 72.5° | 2137.1 | 1641.7 | 619.1 | 253.0 | 117.1 | 46.4 | 44.7 | 40.7 | 34.2 | 28.5 | 26.8 |
| 75° | 1333.3 | 953.4 | 423.8 | 206.6 | 104.9 | 40.7 | 41.5 | 38.2 | 30.9 | 26.8 | 24.4 |
| 77.5° | 778.5 | 669.5 | 209.1 | 153.8 | 72.4 | 35.8 | 36.6 | 35.0 | 31.7 | 25.2 | 23.6 |
| 80° | 466.1 | 416.5 | 89.5 | 65.9 | 39.9 | 31.7 | 30.9 | 32.5 | 30.1 | 23.6 | 22.0 |
| 82.5° | 201.7 | 180.6 | 43.1 | 36.6 | 32.5 | 27.7 | 26.8 | 27.7 | 26.0 | 19.5 | 18.7 |
| 85° | 11.4 | 30.1 | 20.3 | 26.8 | 24.4 | 20.3 | 20.3 | 21.2 | 18.7 | 15.5 | 15.5 |
| 87.5° | 10.6 | 22.8 | 13.0 | 16.3 | 17.9 | 15.5 | 16.3 | 16.3 | 15.5 | 13.8 | 13.0 |
| 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: ENT-SA1F-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 | 1519.6 |
| 2.5° | 1356.1 | 1347.2 | 1320.3 | 1310.6 | 1268.3 | 1278.8 | 1282.1 | 1278.0 | 1279.6 | 1282.9 | 1295.1 |
| 5° | 1123.4 | 1108.8 | 1073.8 | 1051.0 | 1038.8 | 1030.7 | 992.5 | 993.3 | 999.0 | 977.0 | 1005.5 |
| 7.5° | 798.0 | 814.3 | 817.6 | 796.4 | 783.4 | 755.7 | 720.8 | 701.2 | 667.9 | 686.6 | 690.7 |
| 10° | 571.1 | 562.9 | 578.4 | 571.1 | 550.7 | 540.2 | 502.7 | 499.5 | 496.2 | 493.8 | 517.4 |
| 12.5° | 435.2 | 410.8 | 392.9 | 397.0 | 381.5 | 355.5 | 349.0 | 349.8 | 353.1 | 353.1 | 359.6 |
| 15° | 344.9 | 307.5 | 279.0 | 261.9 | 264.4 | 238.4 | 231.0 | 206.6 | 203.4 | 196.1 | 197.7 |
| 17.5° | 241.6 | 226.2 | 209.1 | 189.5 | 181.4 | 157.8 | 129.3 | 116.3 | 106.6 | 108.2 | 113.1 |
| 20° | 166.8 | 160.3 | 155.4 | 145.6 | 137.5 | 109.8 | 91.9 | 86.2 | 85.4 | 87.0 | 88.7 |
| 22.5° | 134.2 | 127.7 | 122.8 | 119.6 | 109.0 | 88.7 | 78.9 | 74.8 | 74.8 | 74.8 | 75.7 |
| 25° | 115.5 | 109.0 | 102.5 | 102.5 | 92.7 | 77.3 | 70.0 | 66.7 | 65.9 | 65.1 | 66.7 |
| 27.5° | 107.4 | 98.4 | 91.9 | 87.9 | 80.5 | 68.3 | 61.8 | 58.6 | 57.8 | 57.8 | 58.6 |
| 30° | 99.2 | 90.3 | 83.8 | 78.1 | 70.0 | 61.0 | 54.5 | 52.1 | 50.4 | 50.4 | 51.3 |
| 32.5° | 94.4 | 85.4 | 77.3 | 70.0 | 61.0 | 53.7 | 48.0 | 44.7 | 43.1 | 43.9 | 44.7 |
| 35° | 83.8 | 76.5 | 69.1 | 61.8 | 53.7 | 47.2 | 41.5 | 38.2 | 37.4 | 37.4 | 38.2 |
| 37.5° | 65.9 | 60.2 | 58.6 | 54.5 | 47.2 | 40.7 | 35.0 | 31.7 | 30.9 | 30.9 | 31.7 |
| 40° | 59.4 | 52.1 | 48.8 | 47.2 | 43.1 | 35.0 | 28.5 | 25.2 | 25.2 | 24.4 | 26.0 |
| 42.5° | 54.5 | 47.2 | 41.5 | 39.9 | 37.4 | 30.1 | 22.8 | 20.3 | 19.5 | 19.5 | 20.3 |
| 45° | 51.3 | 43.1 | 35.8 | 31.7 | 31.7 | 24.4 | 18.7 | 15.5 | 14.6 | 14.6 | 15.5 |
| 47.5° | 49.6 | 40.7 | 31.7 | 26.0 | 25.2 | 20.3 | 14.6 | 11.4 | 10.6 | 10.6 | 10.6 |
| 50° | 48.0 | 37.4 | 28.5 | 22.0 | 19.5 | 17.1 | 11.4 | 8.9 | 8.1 | 8.1 | 8.1 |
| 52.5° | 45.6 | 35.8 | 26.0 | 19.5 | 15.5 | 13.0 | 8.9 | 6.5 | 5.7 | 4.9 | 5.7 |
| 55° | 43.9 | 33.4 | 25.2 | 17.9 | 13.0 | 9.8 | 6.5 | 4.9 | 4.1 | 4.1 | 4.1 |
| 57.5° | 41.5 | 30.9 | 22.8 | 17.1 | 12.2 | 7.3 | 4.9 | 3.3 | 2.4 | 2.4 | 3.3 |
| 58° | 40.7 | 30.9 | 22.0 | 16.3 | 11.4 | 7.3 | 4.9 | 3.3 | 2.4 | 2.4 | 3.3 |
| 60° | 38.2 | 28.5 | 21.2 | 14.6 | 10.6 | 6.5 | 4.1 | 2.4 | 1.6 | 1.6 | 2.4 |
| 62.5° | 35.8 | 26.0 | 18.7 | 13.0 | 8.9 | 5.7 | 3.3 | 1.6 | 0.8 | 0.8 | 0.8 |
| 65° | 31.7 | 23.6 | 16.3 | 12.2 | 7.3 | 4.1 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 |
| 67.5° | 28.5 | 22.0 | 14.6 | 10.6 | 6.5 | 3.3 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 26.0 | 20.3 | 13.0 | 8.9 | 5.7 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 24.4 | 18.7 | 12.2 | 8.1 | 4.1 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 23.6 | 17.9 | 12.2 | 7.3 | 4.1 | 2.4 | 1.6 | 0.8 | 0.0 | 0.0 | 0.8 |
| 77.5° | 22.8 | 17.9 | 12.2 | 7.3 | 4.9 | 2.4 | 2.4 | 1.6 | 1.6 | 0.8 | 2.4 |
| 80° | 21.2 | 16.3 | 10.6 | 6.5 | 4.1 | 3.3 | 2.4 | 1.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 17.9 | 13.0 | 8.9 | 6.5 | 4.1 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 14.6 | 10.6 | 7.3 | 4.1 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 13.0 | 8.1 | 5.7 | 3.3 | 1.6 | 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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| 35° | 39.9 | 44.7 | 49.6 | 56.1 | 71.6 | 222.9 | 1068.1 | 2137.9 | 2375.4 | 2429.9 |
| 37.5° | 33.4 | 37.4 | 43.1 | 48.8 | 65.1 | 172.5 | 999.0 | 2276.2 | 2553.6 | 2615.4 |
| 40° | 28.5 | 32.5 | 37.4 | 43.9 | 57.8 | 125.3 | 888.3 | 2401.5 | 2720.4 | 2777.3 |
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| 45° | 17.9 | 22.8 | 30.1 | 41.5 | 39.9 | 63.5 | 680.9 | 2628.4 | 2989.6 | 3060.4 |
| 47.5° | 13.0 | 18.7 | 30.1 | 37.4 | 32.5 | 45.6 | 632.1 | 2730.9 | 3101.1 | 3149.1 |
| 50° | 9.8 | 15.5 | 32.5 | 31.7 | 27.7 | 39.0 | 639.4 | 2844.8 | 3152.3 | 3183.2 |
| 52.5° | 7.3 | 13.0 | 25.2 | 22.8 | 23.6 | 34.2 | 667.9 | 2995.3 | 3258.1 | 3280.0 |
| 55° | 6.5 | 9.8 | 15.5 | 17.1 | 21.2 | 32.5 | 660.6 | 3137.7 | 3393.1 | 3431.4 |
| 57.5° | 5.7 | 8.1 | 12.2 | 13.8 | 18.7 | 30.9 | 619.1 | 3200.3 | 3480.2 | 3533.0 |
| 58° | 4.9 | 8.1 | 11.4 | 13.8 | 18.7 | 30.1 | 608.5 | 3183.2 | 3476.1 | 3542.8 |
| 60° | 4.1 | 7.3 | 10.6 | 12.2 | 16.3 | 26.8 | 557.2 | 3038.4 | 3386.6 | 3480.2 |
| 62.5° | 3.3 | 4.9 | 8.1 | 8.9 | 13.0 | 22.0 | 458.8 | 2804.1 | 3194.6 | 3310.1 |
| 65° | 1.6 | 3.3 | 4.9 | 6.5 | 8.9 | 16.3 | 326.2 | 2526.7 | 2988.8 | 3101.9 |
| 67.5° | 0.0 | 1.6 | 3.3 | 4.1 | 5.7 | 12.2 | 187.9 | 2144.4 | 2650.4 | 2739.9 |
| 70° | 0.0 | 0.8 | 1.6 | 2.4 | 3.3 | 8.1 | 99.2 | 1574.1 | 2053.3 | 2214.4 |
| 72.5° | 0.8 | 0.8 | 0.8 | 0.0 | 1.6 | 6.5 | 43.9 | 933.9 | 1400.0 | 1566.0 |
| 75° | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 3.3 | 18.7 | 492.2 | 802.9 | 881.8 |
| 77.5° | 3.3 | 1.6 | 0.0 | 0.0 | 0.0 | 0.8 | 8.9 | 265.2 | 416.5 | 442.5 |
| 80° | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 88.7 | 249.7 | 255.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 107.4 | 102.5 |
| 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)