

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: P401907

Luminaire Tested: **ENC-SA1F-760-U-SLR-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1F-760-U-SLR-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5854 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

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

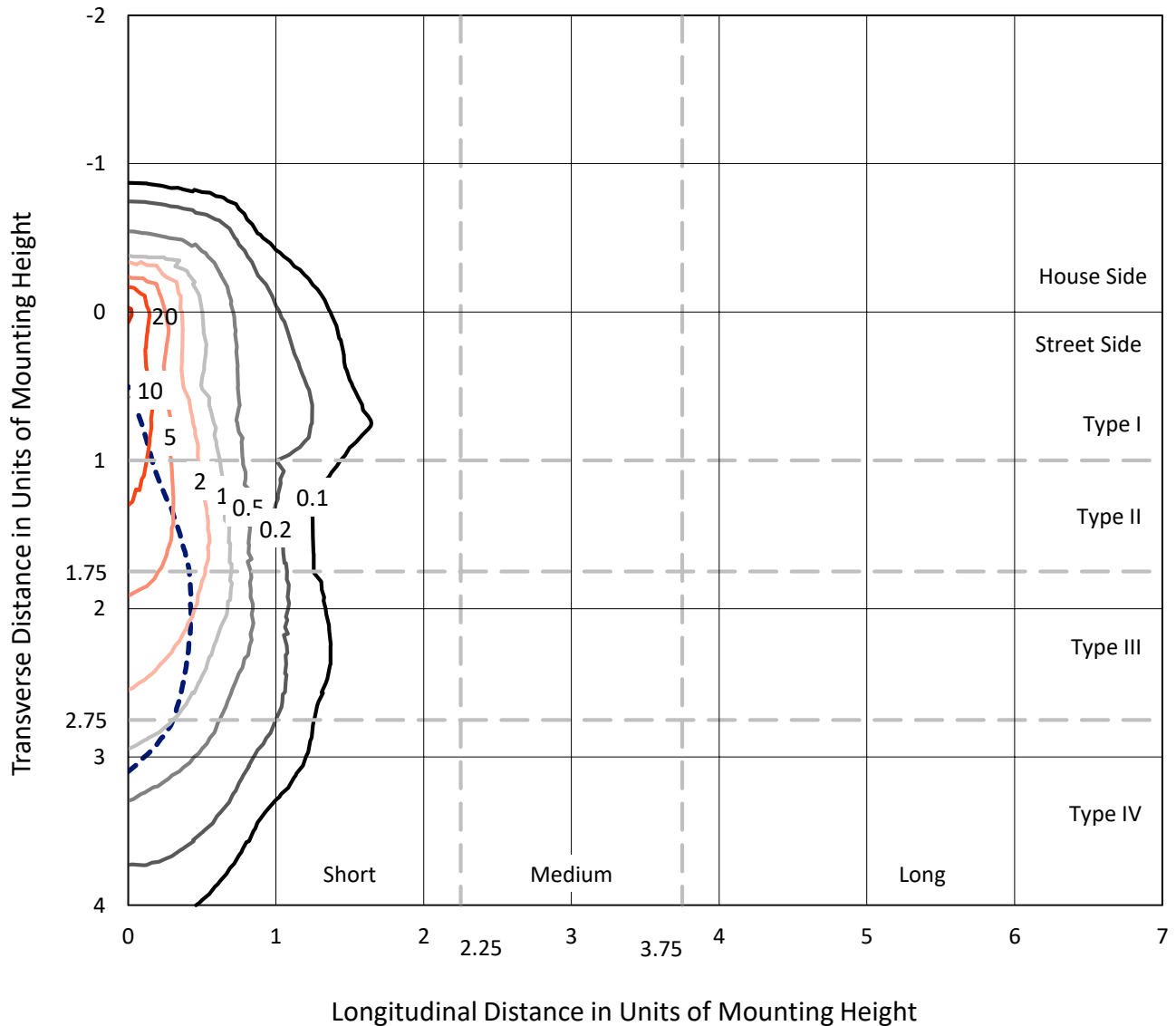


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Iso-Footcandle Lines of Horizontal Illumination

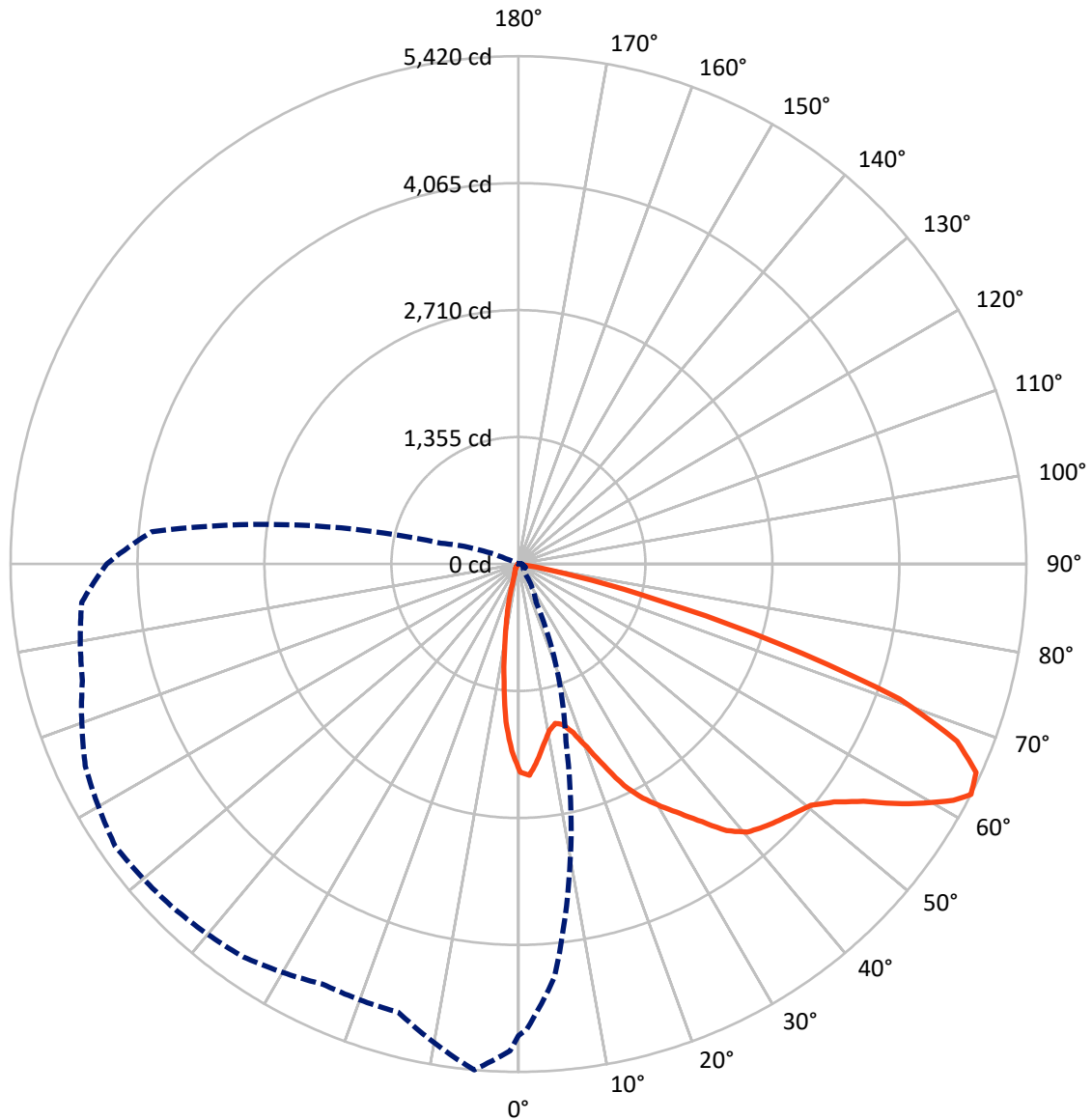
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 823.4 | 0.0 | 823.4 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 5030.6 | 0.0 | 5030.6 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 5854.0 | 0.0 | 5854.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 166.5 | 2.8 |
| 10°-20° | 316.5 | 5.4 |
| 20°-30° | 440.4 | 7.5 |
| 30°-40° | 636.9 | 10.9 |
| 40°-50° | 913.3 | 15.6 |
| 50°-60° | 1325.0 | 22.6 |
| 60°-70° | 1433.5 | 24.5 |
| 70°-80° | 579.0 | 9.9 |
| 80°-90° | 42.9 | 0.7 |
| 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° | 5854.0 | 100.0 |
| 0°-180° | 5854.0 | 100.0 |



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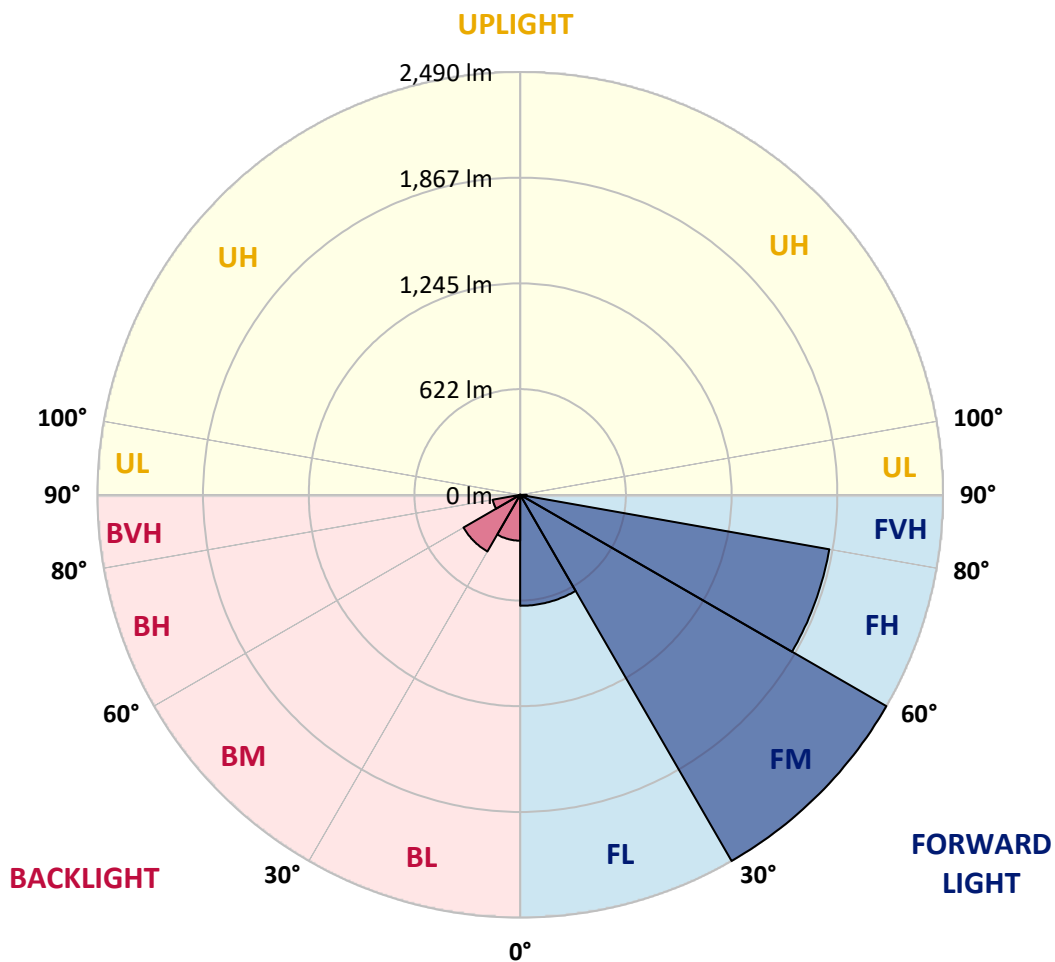
CATALOG NUMBER: ENC-SA1F-760-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 653.5 | 11.2 | | | |
| FM | (30°-60°) | 2489.9 | 42.5 | | | |
| FH | (60°-80°) | 1848.7 | 31.6 | | | G2/5000 |
| FVH | (80°-90°) | 38.5 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 270.0 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 385.3 | 6.6 | B1/1000 | | |
| BH | (60°-80°) | 163.8 | 2.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 4.4 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 |
| 2.5° | 2229.8 | 2220.5 | 2199.7 | 2154.5 | 2089.7 | 2048.0 | 2021.3 | 1986.6 | 1950.7 | 1939.1 | 1915.9 |
| 5° | 2035.2 | 2020.2 | 1991.2 | 1877.7 | 1775.7 | 1673.8 | 1600.8 | 1531.3 | 1508.2 | 1461.8 | 1489.6 |
| 7.5° | 1847.6 | 1840.6 | 1773.4 | 1626.3 | 1464.1 | 1333.3 | 1249.9 | 1147.9 | 1117.8 | 1070.3 | 1032.1 |
| 10° | 1700.4 | 1694.7 | 1613.6 | 1421.3 | 1246.4 | 1137.5 | 1071.5 | 1005.4 | 939.4 | 872.2 | 818.9 |
| 12.5° | 1626.3 | 1613.6 | 1519.7 | 1312.4 | 1150.2 | 1059.9 | 990.4 | 902.3 | 831.7 | 741.3 | 676.5 |
| 15° | 1637.9 | 1626.3 | 1518.6 | 1295.0 | 1103.9 | 978.8 | 875.7 | 771.5 | 671.8 | 582.6 | 518.9 |
| 17.5° | 1730.6 | 1725.9 | 1595.0 | 1310.1 | 1048.3 | 882.7 | 744.8 | 604.7 | 486.5 | 390.4 | 335.9 |
| 20° | 1911.3 | 1897.4 | 1707.4 | 1342.5 | 990.4 | 771.5 | 582.6 | 410.1 | 311.6 | 245.6 | 222.4 |
| 22.5° | 2134.8 | 2103.6 | 1884.6 | 1390.0 | 934.8 | 652.1 | 421.6 | 275.7 | 222.4 | 196.9 | 180.7 |
| 25° | 2397.8 | 2398.9 | 2104.7 | 1453.7 | 879.2 | 540.9 | 295.4 | 218.9 | 187.7 | 169.1 | 155.2 |
| 27.5° | 2610.9 | 2594.7 | 2302.8 | 1517.4 | 818.9 | 443.6 | 247.9 | 191.1 | 164.5 | 144.8 | 136.7 |
| 30° | 2768.4 | 2744.1 | 2433.7 | 1561.4 | 741.3 | 375.3 | 222.4 | 181.9 | 155.2 | 133.2 | 122.8 |
| 32.5° | 2930.6 | 2900.5 | 2551.8 | 1585.8 | 695.0 | 342.9 | 196.9 | 158.7 | 139.0 | 129.7 | 115.8 |
| 35° | 3120.6 | 3093.9 | 2682.7 | 1583.5 | 670.7 | 324.3 | 178.4 | 143.6 | 118.2 | 103.1 | 93.8 |
| 37.5° | 3332.6 | 3278.1 | 2818.2 | 1573.0 | 653.3 | 315.1 | 162.2 | 133.2 | 110.0 | 93.8 | 82.2 |
| 40° | 3514.4 | 3460.0 | 2943.4 | 1559.1 | 641.7 | 305.8 | 152.9 | 126.3 | 104.3 | 86.9 | 75.3 |
| 42.5° | 3656.9 | 3604.8 | 3060.3 | 1541.8 | 635.9 | 286.1 | 157.5 | 121.6 | 99.6 | 82.2 | 69.5 |
| 45° | 3779.7 | 3726.4 | 3199.3 | 1539.4 | 633.6 | 272.2 | 155.2 | 120.5 | 97.3 | 76.5 | 64.9 |
| 47.5° | 3922.2 | 3894.4 | 3382.4 | 1577.7 | 624.3 | 261.8 | 142.5 | 129.7 | 96.1 | 74.1 | 61.4 |
| 50° | 4133.0 | 4108.6 | 3622.1 | 1691.2 | 610.4 | 251.4 | 129.7 | 142.5 | 96.1 | 71.8 | 57.9 |
| 52.5° | 4428.3 | 4400.5 | 3999.8 | 1839.4 | 597.7 | 239.8 | 117.0 | 137.8 | 97.3 | 68.3 | 55.6 |
| 55° | 4734.1 | 4729.5 | 4356.5 | 1997.0 | 586.1 | 214.3 | 103.1 | 123.9 | 95.0 | 63.7 | 52.1 |
| 57.5° | 4973.9 | 4970.5 | 4624.1 | 2103.6 | 564.1 | 172.6 | 93.8 | 103.1 | 88.0 | 57.9 | 47.5 |
| 60° | 5072.4 | 5043.4 | 4653.1 | 2103.6 | 513.1 | 142.5 | 85.7 | 81.1 | 89.2 | 52.1 | 41.7 |
| 61° | 5072.4 | 5035.3 | 4600.9 | 2072.3 | 487.7 | 135.5 | 81.1 | 75.3 | 91.5 | 49.8 | 39.4 |
| 62.5° | 5033.0 | 4971.6 | 4422.6 | 1959.9 | 447.1 | 135.5 | 74.1 | 67.2 | 83.4 | 47.5 | 35.9 |
| 65° | 4858.1 | 4757.3 | 4004.4 | 1703.9 | 405.4 | 139.0 | 63.7 | 56.8 | 60.2 | 40.5 | 31.3 |
| 67.5° | 4426.0 | 4312.5 | 3462.3 | 1348.3 | 371.8 | 147.1 | 53.3 | 49.8 | 46.3 | 35.9 | 27.8 |
| 70° | 3646.5 | 3550.3 | 2825.2 | 1010.1 | 345.2 | 149.4 | 46.3 | 41.7 | 39.4 | 31.3 | 24.3 |
| 72.5° | 2330.6 | 2171.9 | 1764.2 | 684.6 | 276.8 | 129.7 | 38.2 | 39.4 | 35.9 | 25.5 | 19.7 |
| 75° | 1125.9 | 1169.9 | 1026.3 | 345.2 | 186.5 | 84.6 | 30.1 | 32.4 | 29.0 | 23.2 | 17.4 |
| 77.5° | 503.9 | 494.6 | 490.0 | 88.0 | 47.5 | 29.0 | 18.5 | 22.0 | 23.2 | 20.9 | 15.1 |
| 80° | 52.1 | 70.7 | 41.7 | 26.6 | 17.4 | 12.7 | 10.4 | 11.6 | 13.9 | 15.1 | 8.1 |
| 82.5° | 2.3 | 1.2 | 1.2 | 3.5 | 3.5 | 2.3 | 0.0 | 0.0 | 2.3 | 2.3 | 1.2 |
| 85° | 0.0 | 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 | 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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CATALOG NUMBER: ENC-SA1F-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 |
| 2.5° | 1895.0 | 1926.3 | 1912.4 | 1908.9 | 1927.5 | 1918.2 | 1946.0 | 1947.2 | 1968.0 | 1995.8 | 2013.2 |
| 5° | 1489.6 | 1465.3 | 1514.0 | 1546.4 | 1586.9 | 1574.2 | 1622.8 | 1617.0 | 1643.7 | 1687.7 | 1670.3 |
| 7.5° | 1034.4 | 1037.9 | 1063.4 | 1092.3 | 1201.2 | 1223.2 | 1239.4 | 1252.2 | 1251.0 | 1261.4 | 1280.0 |
| 10° | 791.1 | 771.5 | 754.1 | 794.6 | 837.5 | 885.0 | 891.9 | 909.3 | 861.8 | 881.5 | 890.8 |
| 12.5° | 647.5 | 624.3 | 586.1 | 565.3 | 575.7 | 603.5 | 615.1 | 625.5 | 597.7 | 598.9 | 619.7 |
| 15° | 491.1 | 459.9 | 444.8 | 417.0 | 406.6 | 404.3 | 410.1 | 395.0 | 391.5 | 378.8 | 386.9 |
| 17.5° | 319.7 | 310.4 | 302.3 | 296.5 | 288.4 | 286.1 | 265.3 | 229.4 | 208.5 | 203.9 | 203.9 |
| 20° | 213.1 | 206.2 | 206.2 | 217.8 | 214.3 | 205.0 | 177.2 | 147.1 | 132.1 | 127.4 | 129.7 |
| 22.5° | 174.9 | 170.3 | 163.3 | 163.3 | 168.0 | 161.0 | 135.5 | 113.5 | 103.1 | 103.1 | 103.1 |
| 25° | 151.7 | 149.4 | 142.5 | 135.5 | 137.8 | 132.1 | 110.0 | 96.1 | 89.2 | 88.0 | 89.2 |
| 27.5° | 133.2 | 132.1 | 123.9 | 117.0 | 117.0 | 112.4 | 95.0 | 82.2 | 77.6 | 75.3 | 76.5 |
| 30° | 120.5 | 118.2 | 108.9 | 103.1 | 101.9 | 97.3 | 81.1 | 71.8 | 67.2 | 66.0 | 66.0 |
| 32.5° | 111.2 | 106.6 | 98.5 | 92.7 | 89.2 | 82.2 | 70.7 | 61.4 | 56.8 | 55.6 | 55.6 |
| 35° | 89.2 | 89.2 | 85.7 | 82.2 | 77.6 | 67.2 | 59.1 | 51.0 | 46.3 | 45.2 | 45.2 |
| 37.5° | 77.6 | 73.0 | 67.2 | 68.3 | 66.0 | 56.8 | 48.7 | 40.5 | 37.1 | 35.9 | 35.9 |
| 40° | 70.7 | 64.9 | 56.8 | 53.3 | 54.4 | 49.8 | 40.5 | 31.3 | 26.6 | 27.8 | 26.6 |
| 42.5° | 63.7 | 59.1 | 49.8 | 41.7 | 40.5 | 41.7 | 31.3 | 22.0 | 18.5 | 18.5 | 18.5 |
| 45° | 59.1 | 54.4 | 44.0 | 34.8 | 29.0 | 32.4 | 24.3 | 15.1 | 11.6 | 11.6 | 11.6 |
| 47.5° | 55.6 | 51.0 | 39.4 | 29.0 | 20.9 | 22.0 | 17.4 | 9.3 | 7.0 | 4.6 | 5.8 |
| 50° | 53.3 | 47.5 | 35.9 | 23.2 | 15.1 | 12.7 | 11.6 | 4.6 | 1.2 | 1.2 | 0.0 |
| 52.5° | 49.8 | 45.2 | 32.4 | 19.7 | 11.6 | 8.1 | 5.8 | 1.2 | 0.0 | 0.0 | 0.0 |
| 55° | 47.5 | 41.7 | 29.0 | 17.4 | 9.3 | 4.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 42.9 | 38.2 | 25.5 | 13.9 | 7.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 38.2 | 34.8 | 22.0 | 10.4 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 61° | 35.9 | 32.4 | 20.9 | 9.3 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 33.6 | 30.1 | 18.5 | 7.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 29.0 | 25.5 | 16.2 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 25.5 | 23.2 | 13.9 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 22.0 | 19.7 | 10.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 18.5 | 17.4 | 8.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 16.2 | 13.9 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 12.7 | 11.6 | 5.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 7.0 | 5.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 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 | 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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CATALOG NUMBER: ENC-SA1F-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 | 2220.5 |
| 2.5° | 2029.4 | 2070.0 | 2108.2 | 2156.8 | 2183.5 | 2256.5 | 2308.6 | 2352.6 | 2387.3 | 2394.3 | 2422.1 |
| 5° | 1716.7 | 1773.4 | 1810.5 | 1912.4 | 1969.2 | 2090.8 | 2184.6 | 2295.8 | 2395.5 | 2449.9 | 2499.7 |
| 7.5° | 1292.7 | 1320.5 | 1384.2 | 1486.2 | 1620.5 | 1725.9 | 1884.6 | 2024.8 | 2204.3 | 2302.8 | 2395.5 |
| 10° | 912.8 | 938.3 | 1032.1 | 1138.7 | 1261.4 | 1438.7 | 1630.9 | 1815.1 | 1997.0 | 2123.2 | 2232.1 |
| 12.5° | 641.7 | 725.1 | 817.8 | 953.3 | 1073.8 | 1203.5 | 1408.5 | 1624.0 | 1851.0 | 1971.5 | 2089.7 |
| 15° | 421.6 | 495.8 | 624.3 | 794.6 | 945.2 | 1071.5 | 1262.6 | 1515.1 | 1803.5 | 1937.9 | 2050.3 |
| 17.5° | 208.5 | 262.9 | 376.5 | 559.5 | 759.9 | 959.1 | 1189.6 | 1495.4 | 1864.9 | 2016.7 | 2122.1 |
| 20° | 130.9 | 147.1 | 188.8 | 316.2 | 546.7 | 841.0 | 1135.2 | 1534.8 | 2031.7 | 2199.7 | 2268.0 |
| 22.5° | 105.4 | 110.0 | 126.3 | 168.0 | 333.6 | 695.0 | 1087.7 | 1588.1 | 2214.8 | 2419.8 | 2490.4 |
| 25° | 90.4 | 93.8 | 103.1 | 123.9 | 193.4 | 521.3 | 1029.8 | 1681.9 | 2427.9 | 2675.8 | 2693.1 |
| 27.5° | 77.6 | 81.1 | 89.2 | 105.4 | 137.8 | 351.0 | 946.4 | 1792.0 | 2682.7 | 2900.5 | 2888.9 |
| 30° | 66.0 | 70.7 | 78.8 | 90.4 | 108.9 | 237.5 | 791.1 | 1903.2 | 2870.4 | 3045.3 | 3026.8 |
| 32.5° | 56.8 | 60.2 | 67.2 | 77.6 | 90.4 | 163.3 | 594.2 | 1976.1 | 3026.8 | 3182.0 | 3141.4 |
| 35° | 46.3 | 49.8 | 55.6 | 64.9 | 73.0 | 115.8 | 449.4 | 1978.5 | 3187.8 | 3351.1 | 3249.2 |
| 37.5° | 37.1 | 39.4 | 45.2 | 53.3 | 60.2 | 90.4 | 330.1 | 1940.2 | 3387.0 | 3571.2 | 3371.9 |
| 40° | 27.8 | 31.3 | 37.1 | 44.0 | 51.0 | 76.5 | 246.7 | 1847.6 | 3581.6 | 3791.3 | 3520.2 |
| 42.5° | 18.5 | 23.2 | 29.0 | 35.9 | 48.7 | 61.4 | 173.8 | 1693.5 | 3739.1 | 3987.0 | 3665.0 |
| 45° | 11.6 | 15.1 | 22.0 | 30.1 | 49.8 | 48.7 | 115.8 | 1509.3 | 3851.5 | 4136.4 | 3763.5 |
| 47.5° | 5.8 | 9.3 | 16.2 | 29.0 | 44.0 | 35.9 | 71.8 | 1333.3 | 3953.4 | 4223.3 | 3808.6 |
| 50° | 1.2 | 3.5 | 11.6 | 35.9 | 37.1 | 26.6 | 47.5 | 1223.2 | 4006.7 | 4201.3 | 3804.0 |
| 52.5° | 0.0 | 0.0 | 8.1 | 34.8 | 26.6 | 20.9 | 37.1 | 1207.0 | 4090.1 | 4230.3 | 3883.9 |
| 55° | 0.0 | 0.0 | 3.5 | 15.1 | 15.1 | 17.4 | 32.4 | 1185.0 | 4238.4 | 4402.9 | 4124.9 |
| 57.5° | 0.0 | 0.0 | 0.0 | 7.0 | 9.3 | 13.9 | 30.1 | 1127.1 | 4394.8 | 4585.9 | 4417.9 |
| 60° | 0.0 | 0.0 | 0.0 | 3.5 | 5.8 | 11.6 | 26.6 | 995.0 | 4251.1 | 4587.0 | 4661.2 |
| 61° | 0.0 | 0.0 | 0.0 | 3.5 | 4.6 | 10.4 | 24.3 | 948.7 | 4122.5 | 4512.9 | 4691.3 |
| 62.5° | 0.0 | 0.0 | 0.0 | 1.2 | 3.5 | 8.1 | 20.9 | 857.2 | 3930.3 | 4393.6 | 4677.4 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 4.6 | 16.2 | 692.7 | 3609.4 | 4093.6 | 4517.5 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 10.4 | 487.7 | 3148.4 | 3754.2 | 4175.8 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 282.6 | 2536.8 | 3178.5 | 3577.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 128.6 | 1646.0 | 2454.5 | 2821.7 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 54.4 | 1013.6 | 1773.4 | 2108.2 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.3 | 686.9 | 1180.4 | 1419.0 |
| 80° | 0.0 | 2.3 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 9.3 | 422.8 | 736.7 | 800.4 |
| 82.5° | 0.0 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 218.9 | 520.1 | 530.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.5 | 110.0 |
| 87.5° | 0.0 | 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 | 0.0 |



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| 30° | 2658.4 | 2173.1 | 1924.0 | 1940.2 | 2083.9 | 2381.6 | 2747.6 | 3001.3 | 2869.2 | 2768.4 |
| 32.5° | 2752.2 | 2249.5 | 1957.6 | 1973.8 | 2146.4 | 2424.4 | 2824.0 | 3175.0 | 3030.2 | 2930.6 |
| 35° | 2843.7 | 2324.8 | 2020.2 | 2049.1 | 2247.2 | 2502.0 | 2901.7 | 3378.9 | 3258.4 | 3120.6 |
| 37.5° | 2922.5 | 2408.2 | 2127.9 | 2189.3 | 2383.9 | 2621.3 | 3007.1 | 3610.6 | 3486.6 | 3332.6 |
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| 62.5° | 4817.6 | 5100.2 | 5251.9 | 5197.5 | 5118.7 | 4946.1 | 4951.9 | 5419.9 | 5195.2 | 5033.0 |
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| 75° | 2352.6 | 1503.5 | 1297.3 | 1288.1 | 1242.9 | 1566.1 | 2622.5 | 1526.7 | 1260.3 | 1125.9 |
| 77.5° | 1552.2 | 1083.1 | 1079.6 | 997.3 | 962.6 | 849.1 | 1176.9 | 611.6 | 499.2 | 503.9 |
| 80° | 894.2 | 663.7 | 778.4 | 617.4 | 618.6 | 498.1 | 476.1 | 89.2 | 71.8 | 52.1 |
| 82.5° | 513.1 | 318.5 | 240.9 | 95.0 | 199.2 | 199.2 | 38.2 | 1.2 | 1.2 | 2.3 |
| 85° | 49.8 | 15.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 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 |

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