

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: P401943

Luminaire Tested: **ENT-SA1F-830-U-SLR-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401943
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: ENT-SA1F-830-U-SLR-HSS
Description: ENTRI LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 4652 lumens
Efficiency: N/A
Efficacy: 70.4 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 - 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

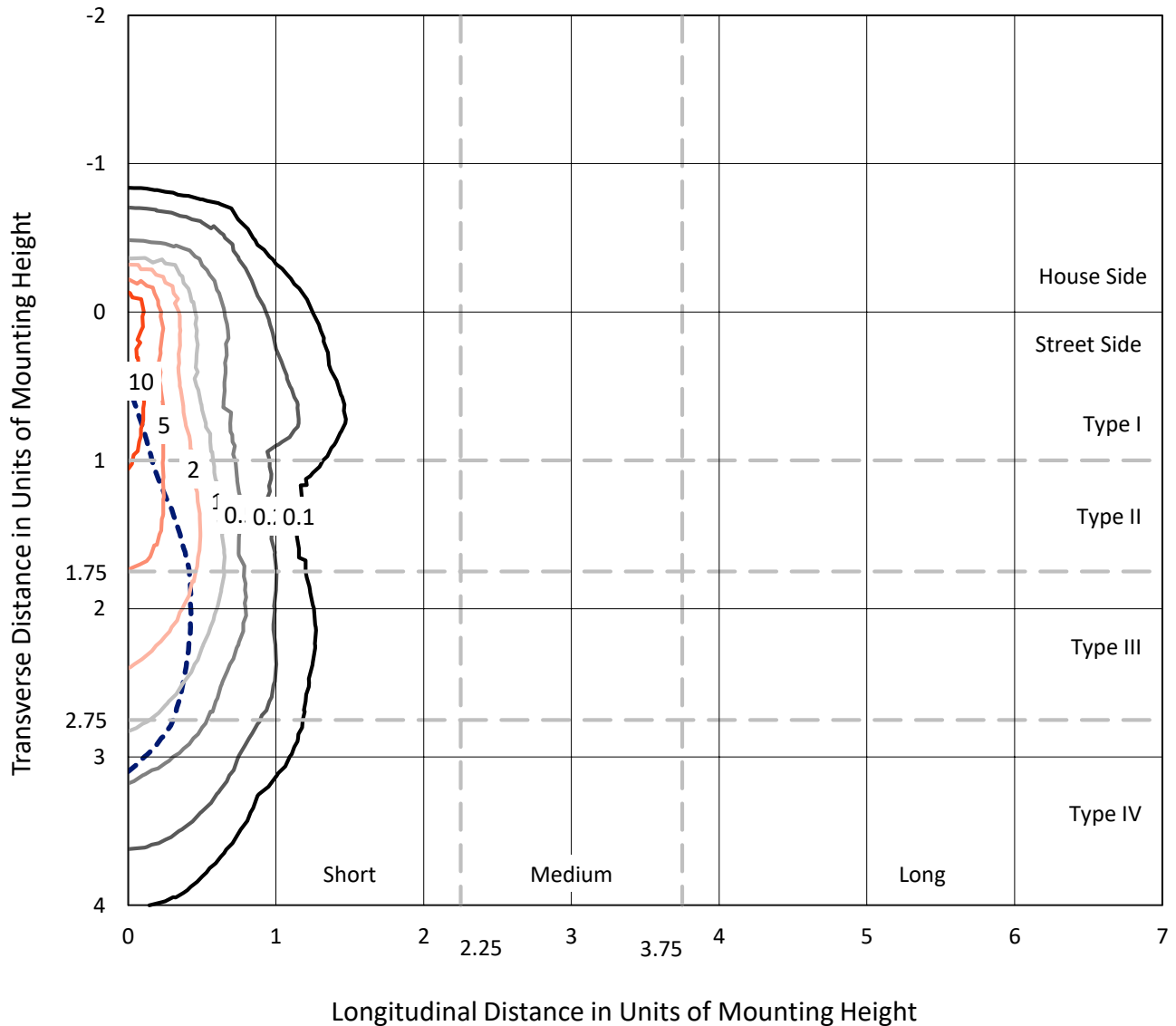


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Iso-Footcandle Lines of Horizontal Illumination

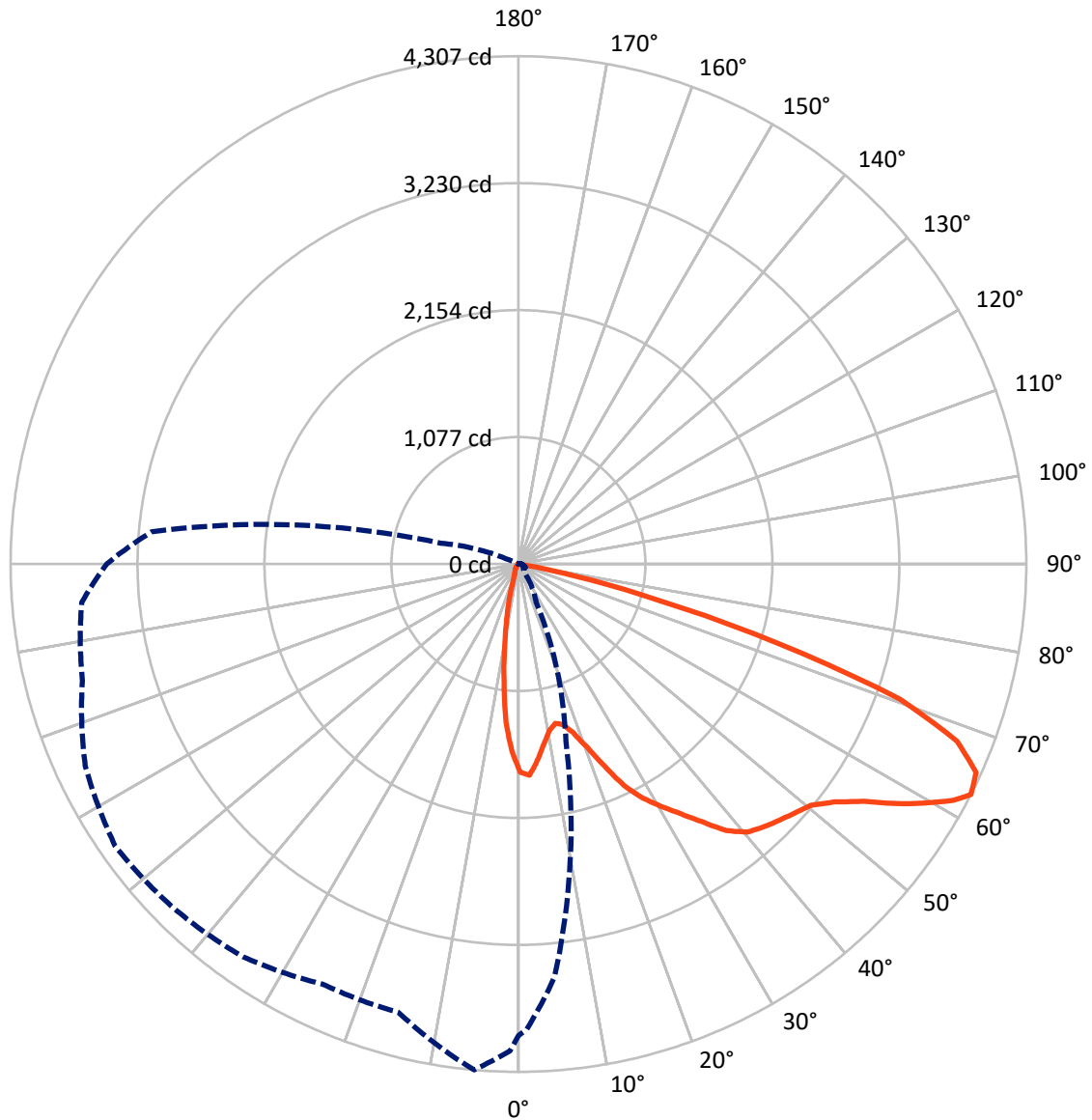
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 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 | 654.4 | 0.0 | 654.4 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 3997.6 | 0.0 | 3997.6 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 4652.0 | 0.0 | 4652.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 132.3 | 2.8 |
| 10°-20° | 251.5 | 5.4 |
| 20°-30° | 350.0 | 7.5 |
| 30°-40° | 506.2 | 10.9 |
| 40°-50° | 725.8 | 15.6 |
| 50°-60° | 1052.9 | 22.6 |
| 60°-70° | 1139.2 | 24.5 |
| 70°-80° | 460.1 | 9.9 |
| 80°-90° | 34.1 | 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° | 4652.0 | 100.0 |
| 0°-180° | 4652.0 | 100.0 |



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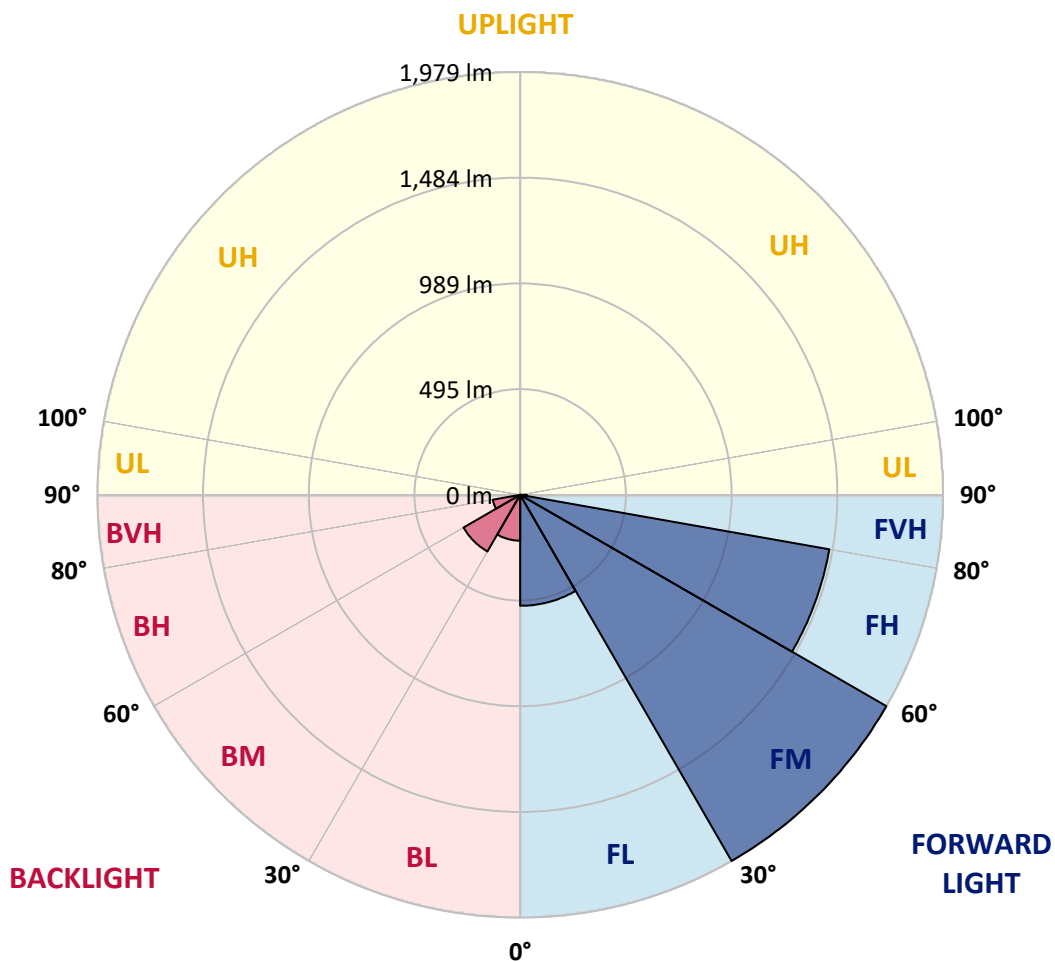
CATALOG NUMBER: ENT-SA1F-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 519.3 | 11.2 | | | |
| FM | (30°-60°) | 1978.6 | 42.5 | | | |
| FH | (60°-80°) | 1469.1 | 31.6 | | | G1/1800 |
| FVH | (80°-90°) | 30.6 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 214.5 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 306.2 | 6.6 | B1/1000 | | |
| BH | (60°-80°) | 130.1 | 2.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 3.5 | 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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 |
| 2.5° | 1772.0 | 1764.6 | 1748.0 | 1712.1 | 1660.6 | 1627.4 | 1606.3 | 1578.7 | 1550.1 | 1540.9 | 1522.5 |
| 5° | 1617.3 | 1605.4 | 1582.3 | 1492.1 | 1411.1 | 1330.1 | 1272.1 | 1216.9 | 1198.5 | 1161.7 | 1183.8 |
| 7.5° | 1468.2 | 1462.7 | 1409.3 | 1292.4 | 1163.5 | 1059.5 | 993.2 | 912.2 | 888.3 | 850.5 | 820.2 |
| 10° | 1351.3 | 1346.7 | 1282.3 | 1129.5 | 990.5 | 903.9 | 851.5 | 799.0 | 746.5 | 693.1 | 650.8 |
| 12.5° | 1292.4 | 1282.3 | 1207.7 | 1042.9 | 914.1 | 842.3 | 787.0 | 717.1 | 660.9 | 589.1 | 537.6 |
| 15° | 1301.6 | 1292.4 | 1206.8 | 1029.1 | 877.2 | 777.8 | 695.9 | 613.1 | 533.9 | 463.0 | 412.4 |
| 17.5° | 1375.2 | 1371.5 | 1267.5 | 1041.1 | 833.1 | 701.4 | 591.9 | 480.5 | 386.6 | 310.2 | 266.9 |
| 20° | 1518.8 | 1507.8 | 1356.8 | 1066.9 | 787.0 | 613.1 | 463.0 | 325.9 | 247.6 | 195.1 | 176.7 |
| 22.5° | 1696.5 | 1671.6 | 1497.7 | 1104.6 | 742.8 | 518.2 | 335.1 | 219.1 | 176.7 | 156.5 | 143.6 |
| 25° | 1905.4 | 1906.4 | 1672.6 | 1155.2 | 698.7 | 429.9 | 234.7 | 174.0 | 149.1 | 134.4 | 123.3 |
| 27.5° | 2074.8 | 2061.9 | 1830.0 | 1205.9 | 650.8 | 352.6 | 197.0 | 151.9 | 130.7 | 115.1 | 108.6 |
| 30° | 2200.0 | 2180.7 | 1934.0 | 1240.8 | 589.1 | 298.2 | 176.7 | 144.5 | 123.3 | 105.9 | 97.6 |
| 32.5° | 2328.9 | 2304.9 | 2027.9 | 1260.2 | 552.3 | 272.5 | 156.5 | 126.1 | 110.5 | 103.1 | 92.1 |
| 35° | 2479.8 | 2458.7 | 2131.9 | 1258.3 | 533.0 | 257.7 | 141.8 | 114.1 | 93.9 | 81.9 | 74.6 |
| 37.5° | 2648.3 | 2605.0 | 2239.6 | 1250.0 | 519.2 | 250.4 | 128.9 | 105.9 | 87.4 | 74.6 | 65.4 |
| 40° | 2792.8 | 2749.5 | 2339.0 | 1239.0 | 510.0 | 243.0 | 121.5 | 100.3 | 82.8 | 69.0 | 59.8 |
| 42.5° | 2906.0 | 2864.6 | 2432.0 | 1225.2 | 505.4 | 227.4 | 125.2 | 96.7 | 79.2 | 65.4 | 55.2 |
| 45° | 3003.6 | 2961.3 | 2542.4 | 1223.3 | 503.5 | 216.3 | 123.3 | 95.7 | 77.3 | 60.8 | 51.5 |
| 47.5° | 3116.8 | 3094.7 | 2687.9 | 1253.7 | 496.2 | 208.0 | 113.2 | 103.1 | 76.4 | 58.9 | 48.8 |
| 50° | 3284.3 | 3265.0 | 2878.4 | 1343.9 | 485.1 | 199.7 | 103.1 | 113.2 | 76.4 | 57.1 | 46.0 |
| 52.5° | 3519.1 | 3497.0 | 3178.5 | 1461.8 | 475.0 | 190.5 | 93.0 | 109.5 | 77.3 | 54.3 | 44.2 |
| 55° | 3762.1 | 3758.4 | 3462.0 | 1586.9 | 465.8 | 170.3 | 81.9 | 98.5 | 75.5 | 50.6 | 41.4 |
| 57.5° | 3952.6 | 3949.9 | 3674.6 | 1671.6 | 448.3 | 137.2 | 74.6 | 81.9 | 70.0 | 46.0 | 37.7 |
| 60° | 4030.9 | 4007.9 | 3697.7 | 1671.6 | 407.8 | 113.2 | 68.1 | 64.4 | 70.9 | 41.4 | 33.1 |
| 61° | 4030.9 | 4001.4 | 3656.2 | 1646.8 | 387.5 | 107.7 | 64.4 | 59.8 | 72.7 | 39.6 | 31.3 |
| 62.5° | 3999.6 | 3950.8 | 3514.5 | 1557.5 | 355.3 | 107.7 | 58.9 | 53.4 | 66.3 | 37.7 | 28.5 |
| 65° | 3860.6 | 3780.5 | 3182.2 | 1354.1 | 322.2 | 110.5 | 50.6 | 45.1 | 47.9 | 32.2 | 24.9 |
| 67.5° | 3517.2 | 3427.0 | 2751.4 | 1071.5 | 295.5 | 116.9 | 42.3 | 39.6 | 36.8 | 28.5 | 22.1 |
| 70° | 2897.7 | 2821.3 | 2245.1 | 802.7 | 274.3 | 118.7 | 36.8 | 33.1 | 31.3 | 24.9 | 19.3 |
| 72.5° | 1852.0 | 1725.9 | 1401.9 | 544.0 | 220.0 | 103.1 | 30.4 | 31.3 | 28.5 | 20.3 | 15.6 |
| 75° | 894.7 | 929.7 | 815.6 | 274.3 | 148.2 | 67.2 | 23.9 | 25.8 | 23.0 | 18.4 | 13.8 |
| 77.5° | 400.4 | 393.1 | 389.4 | 70.0 | 37.7 | 23.0 | 14.7 | 17.5 | 18.4 | 16.6 | 12.0 |
| 80° | 41.4 | 56.2 | 33.1 | 21.2 | 13.8 | 10.1 | 8.3 | 9.2 | 11.0 | 12.0 | 6.4 |
| 82.5° | 1.8 | 0.9 | 0.9 | 2.8 | 2.8 | 1.8 | 0.0 | 0.0 | 1.8 | 1.8 | 0.9 |
| 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: ENT-SA1F-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 |
| 2.5° | 1505.9 | 1530.8 | 1519.7 | 1517.0 | 1531.7 | 1524.3 | 1546.4 | 1547.4 | 1563.9 | 1586.0 | 1599.8 |
| 5° | 1183.8 | 1164.4 | 1203.1 | 1228.9 | 1261.1 | 1251.0 | 1289.6 | 1285.0 | 1306.2 | 1341.2 | 1327.4 |
| 7.5° | 822.0 | 824.8 | 845.0 | 868.0 | 954.6 | 972.0 | 984.9 | 995.1 | 994.1 | 1002.4 | 1017.2 |
| 10° | 628.7 | 613.1 | 599.2 | 631.5 | 665.5 | 703.3 | 708.8 | 722.6 | 684.9 | 700.5 | 707.9 |
| 12.5° | 514.6 | 496.2 | 465.8 | 449.2 | 457.5 | 479.6 | 488.8 | 497.1 | 475.0 | 475.9 | 492.5 |
| 15° | 390.3 | 365.4 | 353.5 | 331.4 | 323.1 | 321.3 | 325.9 | 313.9 | 311.1 | 301.0 | 307.4 |
| 17.5° | 254.1 | 246.7 | 240.3 | 235.6 | 229.2 | 227.4 | 210.8 | 182.3 | 165.7 | 162.0 | 162.0 |
| 20° | 169.4 | 163.8 | 163.8 | 173.1 | 170.3 | 162.9 | 140.8 | 116.9 | 104.9 | 101.3 | 103.1 |
| 22.5° | 139.0 | 135.3 | 129.8 | 129.8 | 133.5 | 127.9 | 107.7 | 90.2 | 81.9 | 81.9 | 81.9 |
| 25° | 120.6 | 118.7 | 113.2 | 107.7 | 109.5 | 104.9 | 87.4 | 76.4 | 70.9 | 70.0 | 70.9 |
| 27.5° | 105.9 | 104.9 | 98.5 | 93.0 | 93.0 | 89.3 | 75.5 | 65.4 | 61.7 | 59.8 | 60.8 |
| 30° | 95.7 | 93.9 | 86.5 | 81.9 | 81.0 | 77.3 | 64.4 | 57.1 | 53.4 | 52.5 | 52.5 |
| 32.5° | 88.4 | 84.7 | 78.2 | 73.6 | 70.9 | 65.4 | 56.2 | 48.8 | 45.1 | 44.2 | 44.2 |
| 35° | 70.9 | 70.9 | 68.1 | 65.4 | 61.7 | 53.4 | 46.9 | 40.5 | 36.8 | 35.9 | 35.9 |
| 37.5° | 61.7 | 58.0 | 53.4 | 54.3 | 52.5 | 45.1 | 38.7 | 32.2 | 29.5 | 28.5 | 28.5 |
| 40° | 56.2 | 51.5 | 45.1 | 42.3 | 43.3 | 39.6 | 32.2 | 24.9 | 21.2 | 22.1 | 21.2 |
| 42.5° | 50.6 | 46.9 | 39.6 | 33.1 | 32.2 | 33.1 | 24.9 | 17.5 | 14.7 | 14.7 | 14.7 |
| 45° | 46.9 | 43.3 | 35.0 | 27.6 | 23.0 | 25.8 | 19.3 | 12.0 | 9.2 | 9.2 | 9.2 |
| 47.5° | 44.2 | 40.5 | 31.3 | 23.0 | 16.6 | 17.5 | 13.8 | 7.4 | 5.5 | 3.7 | 4.6 |
| 50° | 42.3 | 37.7 | 28.5 | 18.4 | 12.0 | 10.1 | 9.2 | 3.7 | 0.9 | 0.9 | 0.0 |
| 52.5° | 39.6 | 35.9 | 25.8 | 15.6 | 9.2 | 6.4 | 4.6 | 0.9 | 0.0 | 0.0 | 0.0 |
| 55° | 37.7 | 33.1 | 23.0 | 13.8 | 7.4 | 3.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 34.1 | 30.4 | 20.3 | 11.0 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 30.4 | 27.6 | 17.5 | 8.3 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 61° | 28.5 | 25.8 | 16.6 | 7.4 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 26.7 | 23.9 | 14.7 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 23.0 | 20.3 | 12.9 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 20.3 | 18.4 | 11.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 17.5 | 15.6 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 14.7 | 13.8 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 12.9 | 11.0 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 10.1 | 9.2 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 5.5 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.9 | 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: ENT-SA1F-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 | 1764.6 |
| 2.5° | 1612.7 | 1644.9 | 1675.3 | 1714.0 | 1735.1 | 1793.1 | 1834.6 | 1869.5 | 1897.2 | 1902.7 | 1924.8 |
| 5° | 1364.2 | 1409.3 | 1438.7 | 1519.7 | 1564.9 | 1661.5 | 1736.1 | 1824.4 | 1903.6 | 1946.9 | 1986.4 |
| 7.5° | 1027.3 | 1049.4 | 1100.0 | 1181.0 | 1287.8 | 1371.5 | 1497.7 | 1609.0 | 1751.7 | 1830.0 | 1903.6 |
| 10° | 725.4 | 745.6 | 820.2 | 904.9 | 1002.4 | 1143.3 | 1296.1 | 1442.4 | 1586.9 | 1687.3 | 1773.8 |
| 12.5° | 510.0 | 576.2 | 649.9 | 757.6 | 853.3 | 956.4 | 1119.3 | 1290.5 | 1471.0 | 1566.7 | 1660.6 |
| 15° | 335.1 | 394.0 | 496.2 | 631.5 | 751.1 | 851.5 | 1003.3 | 1204.0 | 1433.2 | 1540.0 | 1629.3 |
| 17.5° | 165.7 | 209.0 | 299.2 | 444.6 | 603.8 | 762.2 | 945.4 | 1188.4 | 1482.0 | 1602.6 | 1686.4 |
| 20° | 104.0 | 116.9 | 150.0 | 251.3 | 434.5 | 668.3 | 902.1 | 1219.7 | 1614.6 | 1748.0 | 1802.3 |
| 22.5° | 83.8 | 87.4 | 100.3 | 133.5 | 265.1 | 552.3 | 864.4 | 1262.0 | 1760.0 | 1922.9 | 1979.1 |
| 25° | 71.8 | 74.6 | 81.9 | 98.5 | 153.7 | 414.2 | 818.3 | 1336.6 | 1929.4 | 2126.4 | 2140.2 |
| 27.5° | 61.7 | 64.4 | 70.9 | 83.8 | 109.5 | 278.9 | 752.0 | 1424.0 | 2131.9 | 2304.9 | 2295.7 |
| 30° | 52.5 | 56.2 | 62.6 | 71.8 | 86.5 | 188.7 | 628.7 | 1512.4 | 2281.0 | 2420.0 | 2405.3 |
| 32.5° | 45.1 | 47.9 | 53.4 | 61.7 | 71.8 | 129.8 | 472.2 | 1570.4 | 2405.3 | 2528.6 | 2496.4 |
| 35° | 36.8 | 39.6 | 44.2 | 51.5 | 58.0 | 92.1 | 357.2 | 1572.2 | 2533.2 | 2663.0 | 2582.0 |
| 37.5° | 29.5 | 31.3 | 35.9 | 42.3 | 47.9 | 71.8 | 262.3 | 1541.8 | 2691.5 | 2837.9 | 2679.6 |
| 40° | 22.1 | 24.9 | 29.5 | 35.0 | 40.5 | 60.8 | 196.1 | 1468.2 | 2846.2 | 3012.8 | 2797.4 |
| 42.5° | 14.7 | 18.4 | 23.0 | 28.5 | 38.7 | 48.8 | 138.1 | 1345.8 | 2971.4 | 3168.4 | 2912.5 |
| 45° | 9.2 | 12.0 | 17.5 | 23.9 | 39.6 | 38.7 | 92.1 | 1199.4 | 3060.7 | 3287.1 | 2990.7 |
| 47.5° | 4.6 | 7.4 | 12.9 | 23.0 | 35.0 | 28.5 | 57.1 | 1059.5 | 3141.7 | 3356.1 | 3026.6 |
| 50° | 0.9 | 2.8 | 9.2 | 28.5 | 29.5 | 21.2 | 37.7 | 972.0 | 3184.0 | 3338.7 | 3022.9 |
| 52.5° | 0.0 | 0.0 | 6.4 | 27.6 | 21.2 | 16.6 | 29.5 | 959.2 | 3250.3 | 3361.7 | 3086.4 |
| 55° | 0.0 | 0.0 | 2.8 | 12.0 | 12.0 | 13.8 | 25.8 | 941.7 | 3368.1 | 3498.8 | 3277.9 |
| 57.5° | 0.0 | 0.0 | 0.0 | 5.5 | 7.4 | 11.0 | 23.9 | 895.6 | 3492.4 | 3644.3 | 3510.8 |
| 60° | 0.0 | 0.0 | 0.0 | 2.8 | 4.6 | 9.2 | 21.2 | 790.7 | 3378.2 | 3645.2 | 3704.1 |
| 61° | 0.0 | 0.0 | 0.0 | 2.8 | 3.7 | 8.3 | 19.3 | 753.9 | 3276.1 | 3586.3 | 3728.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.9 | 2.8 | 6.4 | 16.6 | 681.2 | 3123.3 | 3491.5 | 3717.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 3.7 | 12.9 | 550.5 | 2868.3 | 3253.1 | 3590.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 8.3 | 387.5 | 2501.9 | 2983.3 | 3318.4 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 224.6 | 2015.9 | 2525.9 | 2842.5 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 102.2 | 1308.0 | 1950.5 | 2242.3 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.3 | 805.4 | 1409.3 | 1675.3 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.3 | 545.9 | 938.0 | 1127.6 |
| 80° | 0.0 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 336.0 | 585.4 | 636.1 |
| 82.5° | 0.0 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 174.0 | 413.3 | 421.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 72.7 | 87.4 |
| 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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| 22.5° | 1808.8 | 1614.6 | 1533.6 | 1535.4 | 1619.2 | 1815.2 | 1918.3 | 1854.8 | 1762.8 | 1696.5 |
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| 27.5° | 2033.4 | 1667.9 | 1512.4 | 1524.3 | 1631.1 | 1876.0 | 2151.2 | 2247.9 | 2146.6 | 2074.8 |
| 30° | 2112.6 | 1726.9 | 1529.0 | 1541.8 | 1656.0 | 1892.6 | 2183.4 | 2385.0 | 2280.1 | 2200.0 |
| 32.5° | 2187.1 | 1787.6 | 1555.6 | 1568.5 | 1705.7 | 1926.6 | 2244.2 | 2523.1 | 2408.0 | 2328.9 |
| 35° | 2259.8 | 1847.4 | 1605.4 | 1628.4 | 1785.8 | 1988.3 | 2305.9 | 2685.1 | 2589.4 | 2479.8 |
| 37.5° | 2322.4 | 1913.7 | 1691.0 | 1739.7 | 1894.4 | 2083.1 | 2389.6 | 2869.2 | 2770.7 | 2648.3 |
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| 45° | 2488.1 | 2377.7 | 2453.1 | 2578.3 | 2571.9 | 2436.6 | 2501.9 | 3101.2 | 3103.0 | 3003.6 |
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| 57.5° | 3321.2 | 3741.8 | 4166.2 | 4244.4 | 4139.5 | 3532.0 | 3224.5 | 3835.7 | 3955.4 | 3952.6 |
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| 61° | 3682.9 | 3996.8 | 4241.7 | 4254.6 | 4196.6 | 3901.1 | 3700.4 | 4197.5 | 4114.6 | 4030.9 |
| 62.5° | 3828.4 | 4053.0 | 4173.6 | 4130.3 | 4067.7 | 3930.5 | 3935.1 | 4307.0 | 4128.4 | 3999.6 |
| 65° | 3975.6 | 3912.1 | 3859.7 | 3652.5 | 3593.6 | 3659.9 | 4133.1 | 4265.6 | 4044.7 | 3860.6 |
| 67.5° | 3723.4 | 3352.5 | 3239.2 | 3031.2 | 2798.3 | 3069.0 | 3945.3 | 4012.5 | 3762.1 | 3517.2 |
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| 77.5° | 1233.5 | 860.7 | 857.9 | 792.6 | 764.9 | 674.7 | 935.2 | 486.0 | 396.7 | 400.4 |
| 80° | 710.6 | 527.4 | 618.6 | 490.6 | 491.5 | 395.8 | 378.3 | 70.9 | 57.1 | 41.4 |
| 82.5° | 407.8 | 253.1 | 191.5 | 75.5 | 158.3 | 158.3 | 30.4 | 0.9 | 0.9 | 1.8 |
| 85° | 39.6 | 12.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 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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