

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: P401764

Luminaire Tested: **ENC-SA1E-830-U-SLR**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1E-830-U-SLR
Description: ENTRI LED LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4943 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - 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

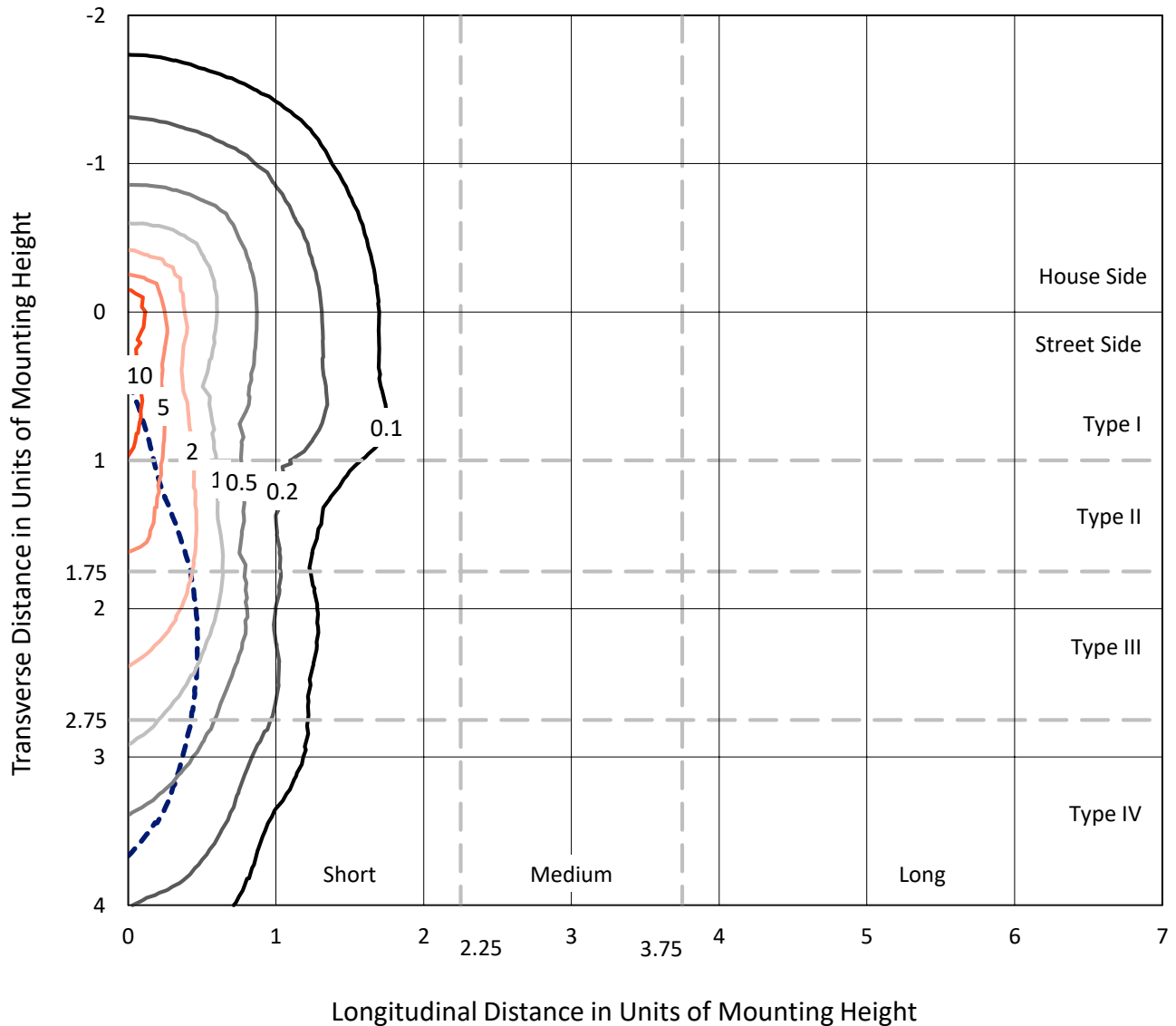


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

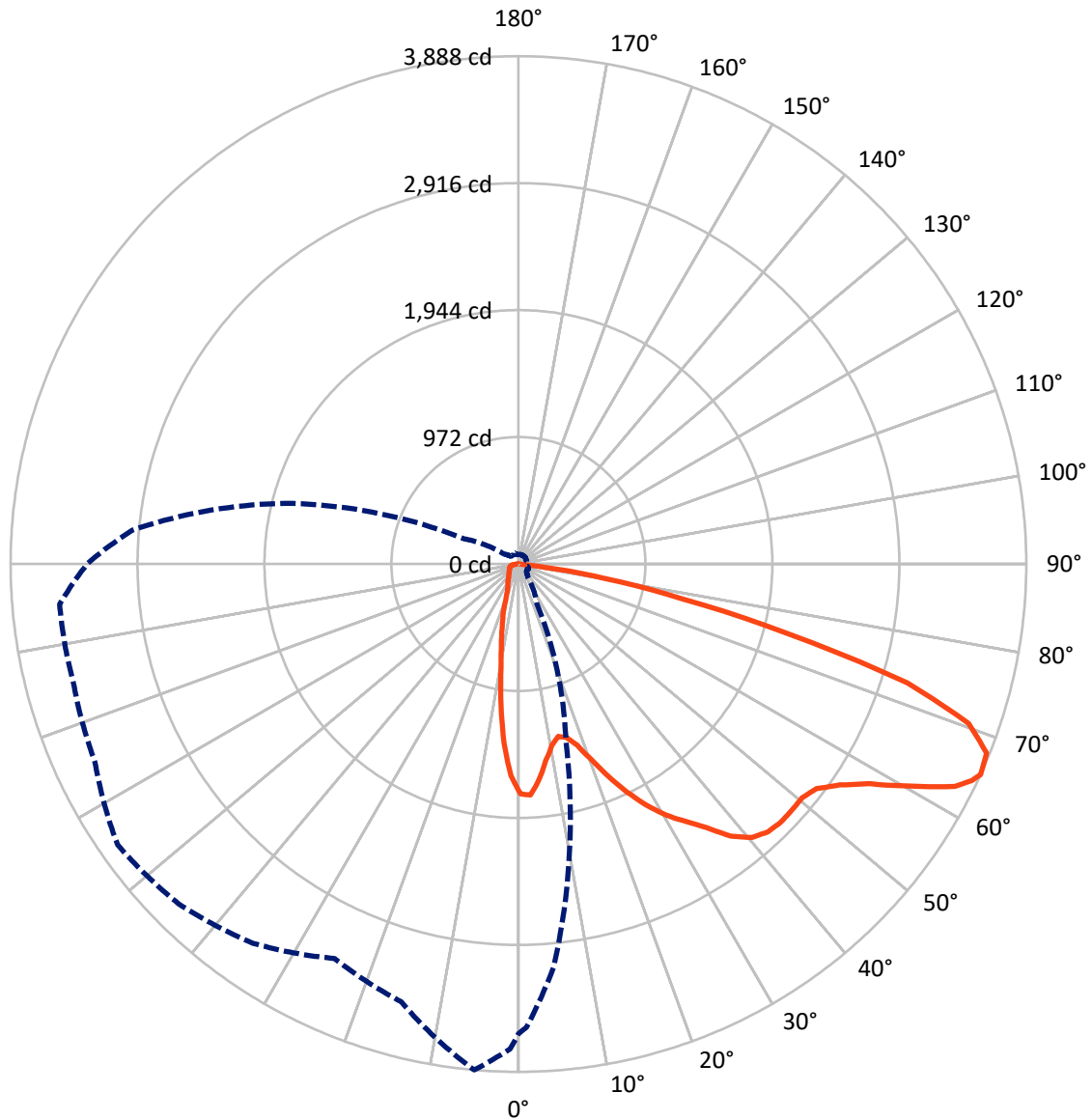


Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1014.2 | 0.0 | 1014.2 |
| | % Fixture | 20.5 | 0.0 | 20.5 |
| Street Side | Lumens | 3928.8 | 0.0 | 3928.8 |
| | % Fixture | 79.5 | 0.0 | 79.5 |
| Total | Lumens | 4943.0 | 0.0 | 4943.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 134.2 | 2.7 |
| 10°-20° | 267.3 | 5.4 |
| 20°-30° | 370.6 | 7.5 |
| 30°-40° | 518.0 | 10.5 |
| 40°-50° | 704.9 | 14.3 |
| 50°-60° | 964.0 | 19.5 |
| 60°-70° | 1178.6 | 23.8 |
| 70°-80° | 711.6 | 14.4 |
| 80°-90° | 93.8 | 1.9 |
| 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° | 4943.0 | 100.0 |
| 0°-180° | 4943.0 | 100.0 |



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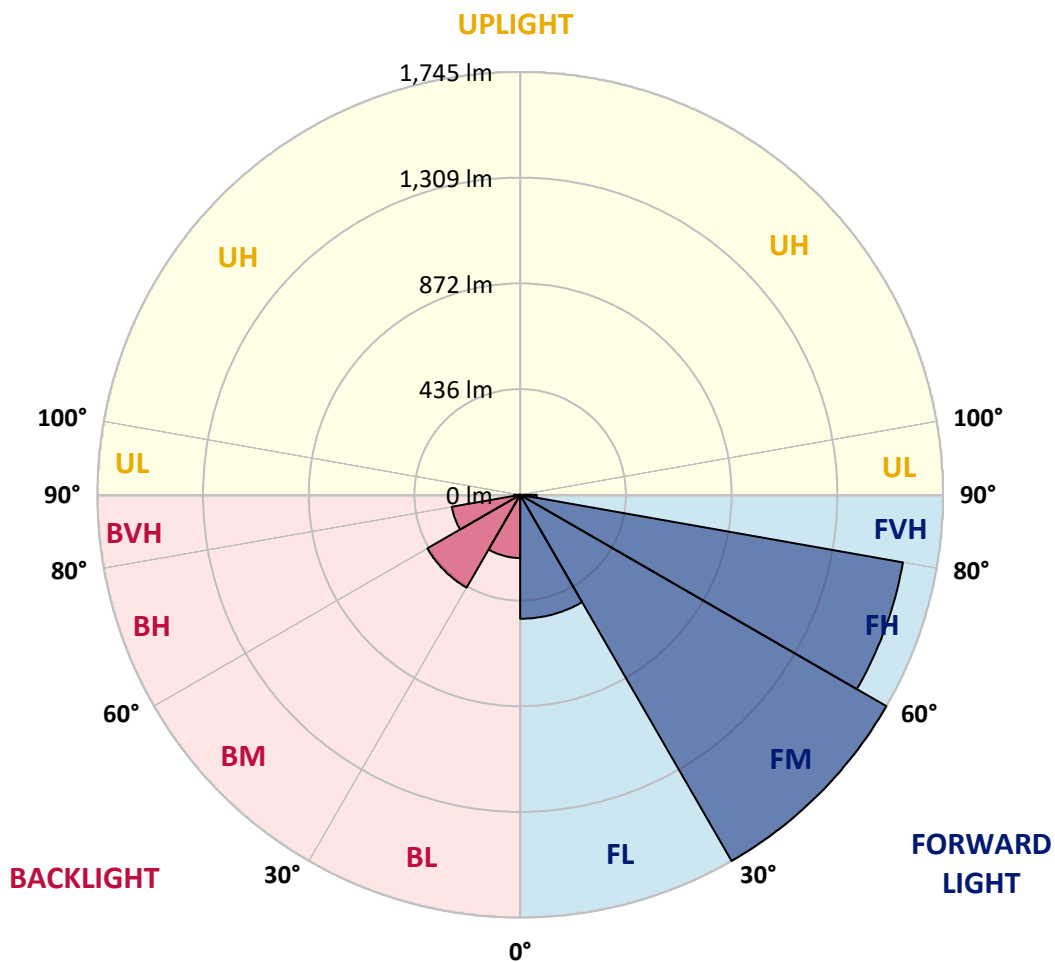
CATALOG NUMBER: ENC-SA1E-830-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 511.4 | 10.3 | | | |
| FM | (30°-60°) | 1744.8 | 35.3 | | | |
| FH | (60°-80°) | 1604.0 | 32.4 | | | G1/1800 |
| FVH | (80°-90°) | 68.6 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 260.6 | 5.3 | B1/500 | | |
| BM | (30°-60°) | 442.1 | 8.9 | B1/1000 | | |
| BH | (60°-80°) | 286.2 | 5.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 25.3 | 0.5 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 |
| 2.5° | 1754.8 | 1749.9 | 1737.5 | 1704.4 | 1668.9 | 1626.7 | 1619.3 | 1573.8 | 1578.8 | 1565.6 | 1568.9 |
| 5° | 1602.8 | 1596.1 | 1562.2 | 1496.1 | 1406.0 | 1353.9 | 1313.4 | 1289.5 | 1269.6 | 1259.7 | 1272.1 |
| 7.5° | 1454.8 | 1445.7 | 1405.2 | 1288.6 | 1188.6 | 1106.0 | 1039.8 | 999.3 | 959.7 | 928.3 | 913.4 |
| 10° | 1334.9 | 1331.6 | 1277.9 | 1146.5 | 1020.8 | 920.0 | 877.0 | 834.0 | 800.1 | 755.5 | 719.1 |
| 12.5° | 1274.6 | 1264.7 | 1201.0 | 1048.1 | 925.8 | 863.8 | 823.3 | 768.7 | 722.4 | 667.9 | 620.8 |
| 15° | 1277.1 | 1265.5 | 1186.2 | 1025.8 | 892.7 | 817.5 | 755.5 | 690.2 | 622.4 | 567.0 | 519.1 |
| 17.5° | 1348.2 | 1339.9 | 1243.2 | 1046.5 | 864.6 | 760.5 | 663.7 | 579.4 | 505.0 | 435.6 | 392.6 |
| 20° | 1468.0 | 1455.6 | 1321.7 | 1071.3 | 829.1 | 695.2 | 563.7 | 448.0 | 367.8 | 306.7 | 272.8 |
| 22.5° | 1624.2 | 1601.1 | 1433.3 | 1101.8 | 793.5 | 620.8 | 455.4 | 326.5 | 255.4 | 224.8 | 215.7 |
| 25° | 1791.2 | 1773.0 | 1568.0 | 1140.7 | 755.5 | 539.8 | 337.2 | 237.2 | 212.4 | 200.0 | 193.4 |
| 27.5° | 1945.0 | 1915.2 | 1712.7 | 1183.7 | 705.1 | 458.8 | 256.2 | 204.2 | 187.6 | 181.8 | 177.7 |
| 30° | 2054.9 | 2029.3 | 1812.7 | 1233.3 | 661.3 | 374.4 | 219.0 | 185.2 | 171.9 | 162.8 | 161.2 |
| 32.5° | 2159.9 | 2123.5 | 1885.4 | 1256.4 | 624.9 | 329.0 | 202.5 | 171.9 | 159.5 | 150.4 | 147.1 |
| 35° | 2283.9 | 2247.5 | 1968.9 | 1259.7 | 597.6 | 310.0 | 186.8 | 162.0 | 148.8 | 140.5 | 136.4 |
| 37.5° | 2430.2 | 2380.6 | 2063.2 | 1262.2 | 570.3 | 302.5 | 173.6 | 153.7 | 140.5 | 131.4 | 128.1 |
| 40° | 2569.0 | 2531.0 | 2159.9 | 1258.1 | 552.2 | 291.8 | 165.3 | 144.7 | 132.3 | 124.0 | 119.9 |
| 42.5° | 2674.0 | 2633.5 | 2242.5 | 1245.7 | 541.4 | 273.6 | 168.6 | 138.0 | 126.5 | 117.4 | 112.4 |
| 45° | 2727.7 | 2691.4 | 2317.7 | 1234.1 | 535.6 | 257.9 | 165.3 | 135.6 | 122.3 | 111.6 | 106.6 |
| 47.5° | 2768.2 | 2732.7 | 2394.6 | 1229.1 | 525.7 | 246.3 | 152.1 | 144.7 | 118.2 | 105.8 | 100.8 |
| 50° | 2833.5 | 2803.0 | 2498.8 | 1257.2 | 510.0 | 238.9 | 139.7 | 154.6 | 116.5 | 100.8 | 95.1 |
| 52.5° | 2950.9 | 2931.1 | 2670.7 | 1322.5 | 493.5 | 226.5 | 127.3 | 148.0 | 118.2 | 97.5 | 90.9 |
| 55° | 3170.0 | 3157.6 | 2907.1 | 1408.5 | 477.8 | 210.8 | 114.1 | 133.9 | 117.4 | 91.8 | 86.8 |
| 57.5° | 3406.4 | 3403.1 | 3193.9 | 1483.7 | 454.6 | 184.3 | 105.8 | 113.2 | 111.6 | 86.8 | 81.0 |
| 60° | 3565.1 | 3554.3 | 3326.2 | 1525.9 | 424.9 | 152.1 | 99.2 | 95.9 | 114.1 | 81.8 | 75.2 |
| 62.5° | 3619.6 | 3584.1 | 3286.5 | 1510.2 | 380.2 | 131.4 | 91.8 | 87.6 | 105.8 | 76.9 | 69.4 |
| 64° | 3616.3 | 3564.2 | 3183.2 | 1450.7 | 351.3 | 127.3 | 87.6 | 81.8 | 93.4 | 73.6 | 67.0 |
| 65° | 3597.3 | 3547.7 | 3097.2 | 1404.4 | 335.6 | 127.3 | 85.1 | 79.4 | 85.1 | 71.9 | 65.3 |
| 67.5° | 3475.8 | 3410.5 | 2803.8 | 1189.5 | 295.1 | 128.9 | 79.4 | 72.7 | 71.1 | 66.1 | 61.2 |
| 70° | 3198.9 | 3113.7 | 2401.2 | 935.7 | 273.6 | 129.8 | 72.7 | 66.1 | 63.6 | 60.3 | 56.2 |
| 72.5° | 2569.0 | 2455.0 | 1911.1 | 668.7 | 251.3 | 127.3 | 66.1 | 60.3 | 57.9 | 54.6 | 50.4 |
| 75° | 1722.6 | 1597.8 | 1408.5 | 440.6 | 205.8 | 114.1 | 57.0 | 52.1 | 51.2 | 47.9 | 44.6 |
| 77.5° | 971.2 | 919.2 | 831.5 | 242.2 | 142.2 | 78.5 | 45.5 | 42.2 | 43.0 | 41.3 | 38.0 |
| 80° | 507.5 | 483.6 | 444.7 | 117.4 | 68.6 | 38.0 | 28.9 | 28.9 | 33.1 | 33.1 | 31.4 |
| 82.5° | 179.4 | 180.2 | 174.4 | 26.5 | 14.1 | 11.6 | 9.9 | 14.1 | 19.0 | 23.1 | 23.1 |
| 85° | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.3 | 5.8 |
| 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-SA1E-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 |
| 2.5° | 1540.8 | 1545.7 | 1558.9 | 1556.5 | 1569.7 | 1563.9 | 1581.3 | 1590.4 | 1595.3 | 1620.9 | 1633.3 |
| 5° | 1262.2 | 1263.9 | 1311.0 | 1320.9 | 1345.7 | 1332.5 | 1363.0 | 1351.5 | 1376.3 | 1379.6 | 1420.9 |
| 7.5° | 927.4 | 930.7 | 953.9 | 1008.4 | 1062.2 | 1084.5 | 1093.6 | 1107.6 | 1096.1 | 1091.9 | 1097.7 |
| 10° | 705.1 | 707.6 | 710.0 | 748.9 | 796.0 | 843.1 | 843.1 | 843.9 | 823.3 | 802.6 | 798.5 |
| 12.5° | 602.6 | 586.9 | 562.1 | 562.9 | 596.0 | 618.3 | 635.6 | 617.5 | 614.2 | 624.1 | 634.8 |
| 15° | 496.0 | 480.2 | 463.7 | 443.9 | 444.7 | 460.4 | 469.5 | 468.7 | 485.2 | 492.6 | 515.0 |
| 17.5° | 385.2 | 362.9 | 363.7 | 352.1 | 336.4 | 346.3 | 348.8 | 363.7 | 385.2 | 395.1 | 399.2 |
| 20° | 258.7 | 258.7 | 265.3 | 279.4 | 271.9 | 278.6 | 279.4 | 291.0 | 300.9 | 295.1 | 300.9 |
| 22.5° | 214.1 | 213.3 | 215.7 | 224.8 | 232.3 | 238.1 | 239.7 | 238.9 | 229.0 | 224.8 | 233.1 |
| 25° | 194.2 | 193.4 | 194.2 | 199.2 | 207.5 | 214.9 | 211.6 | 206.6 | 195.1 | 194.2 | 195.9 |
| 27.5° | 177.7 | 178.5 | 180.2 | 183.5 | 188.5 | 197.6 | 194.2 | 184.3 | 178.5 | 176.9 | 176.9 |
| 30° | 163.7 | 163.7 | 167.0 | 170.3 | 176.1 | 184.3 | 178.5 | 170.3 | 164.5 | 162.8 | 162.0 |
| 32.5° | 149.6 | 152.1 | 154.6 | 157.9 | 162.8 | 171.1 | 166.1 | 158.7 | 152.9 | 149.6 | 147.1 |
| 35° | 135.6 | 137.2 | 142.2 | 147.1 | 151.3 | 157.9 | 154.6 | 148.0 | 142.2 | 134.7 | 131.4 |
| 37.5° | 127.3 | 127.3 | 129.8 | 137.2 | 140.5 | 145.5 | 143.8 | 138.0 | 128.9 | 123.2 | 122.3 |
| 40° | 119.9 | 119.9 | 120.7 | 124.8 | 130.6 | 136.4 | 133.1 | 124.0 | 118.2 | 115.7 | 114.9 |
| 42.5° | 112.4 | 112.4 | 113.2 | 113.2 | 120.7 | 130.6 | 122.3 | 113.2 | 110.8 | 109.1 | 108.3 |
| 45° | 105.8 | 105.8 | 105.8 | 105.0 | 109.1 | 121.5 | 112.4 | 105.0 | 103.3 | 103.3 | 102.5 |
| 47.5° | 100.8 | 100.0 | 99.2 | 97.5 | 100.0 | 109.9 | 102.5 | 98.4 | 97.5 | 98.4 | 97.5 |
| 50° | 94.2 | 93.4 | 92.6 | 91.8 | 93.4 | 97.5 | 95.9 | 91.8 | 92.6 | 92.6 | 93.4 |
| 52.5° | 88.4 | 87.6 | 86.8 | 86.0 | 87.6 | 90.9 | 90.9 | 87.6 | 87.6 | 88.4 | 89.3 |
| 55° | 85.1 | 83.5 | 82.7 | 82.7 | 83.5 | 87.6 | 86.8 | 84.3 | 84.3 | 86.0 | 86.8 |
| 57.5° | 80.2 | 78.5 | 78.5 | 77.7 | 79.4 | 84.3 | 83.5 | 81.0 | 81.0 | 81.8 | 83.5 |
| 60° | 75.2 | 74.4 | 73.6 | 75.2 | 76.0 | 81.0 | 80.2 | 78.5 | 77.7 | 80.2 | 80.2 |
| 62.5° | 69.4 | 69.4 | 69.4 | 71.1 | 71.9 | 77.7 | 76.9 | 76.0 | 76.0 | 76.9 | 76.0 |
| 64° | 66.1 | 66.1 | 67.0 | 67.8 | 69.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 73.6 |
| 65° | 64.5 | 64.5 | 66.1 | 67.0 | 67.8 | 73.6 | 72.7 | 73.6 | 74.4 | 73.6 | 71.9 |
| 67.5° | 60.3 | 60.3 | 62.8 | 62.8 | 63.6 | 70.3 | 69.4 | 71.1 | 72.7 | 71.1 | 69.4 |
| 70° | 55.4 | 56.2 | 58.7 | 57.9 | 59.5 | 67.0 | 64.5 | 67.8 | 71.1 | 68.6 | 67.0 |
| 72.5° | 50.4 | 51.2 | 54.6 | 52.9 | 53.7 | 62.8 | 59.5 | 62.8 | 67.8 | 66.1 | 64.5 |
| 75° | 45.5 | 46.3 | 48.8 | 47.9 | 49.6 | 57.9 | 54.6 | 57.9 | 62.8 | 62.8 | 62.0 |
| 77.5° | 38.8 | 40.5 | 42.2 | 41.3 | 44.6 | 52.1 | 48.8 | 51.2 | 55.4 | 58.7 | 57.0 |
| 80° | 31.4 | 33.9 | 34.7 | 35.5 | 38.8 | 44.6 | 42.2 | 43.0 | 47.1 | 49.6 | 50.4 |
| 82.5° | 21.5 | 25.6 | 27.3 | 28.1 | 33.1 | 34.7 | 35.5 | 34.7 | 37.2 | 40.5 | 38.0 |
| 85° | 6.6 | 8.3 | 15.7 | 19.8 | 24.8 | 24.8 | 28.9 | 27.3 | 28.9 | 25.6 | 21.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 5.8 | 14.9 | 14.9 | 20.7 | 19.0 | 19.8 | 14.9 | 13.2 |
| 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-830-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 | 1759.0 |
| 2.5° | 1635.8 | 1649.9 | 1681.3 | 1717.6 | 1737.5 | 1780.5 | 1806.9 | 1835.0 | 1863.1 | 1868.9 | 1878.0 |
| 5° | 1429.2 | 1445.7 | 1481.2 | 1530.0 | 1578.8 | 1635.8 | 1701.9 | 1772.2 | 1849.9 | 1883.0 | 1915.2 |
| 7.5° | 1113.4 | 1116.7 | 1167.1 | 1255.6 | 1298.6 | 1379.6 | 1473.8 | 1582.1 | 1701.9 | 1763.9 | 1830.1 |
| 10° | 822.5 | 856.3 | 894.4 | 967.9 | 1076.2 | 1169.6 | 1286.2 | 1412.6 | 1537.5 | 1627.5 | 1696.2 |
| 12.5° | 646.4 | 689.4 | 752.2 | 833.2 | 915.0 | 1003.5 | 1138.2 | 1273.8 | 1427.5 | 1508.5 | 1592.8 |
| 15° | 532.3 | 586.9 | 668.7 | 753.8 | 829.9 | 908.4 | 1028.3 | 1194.4 | 1391.1 | 1473.8 | 1549.0 |
| 17.5° | 421.6 | 481.9 | 569.5 | 658.8 | 749.7 | 845.6 | 984.5 | 1190.3 | 1430.0 | 1525.9 | 1603.6 |
| 20° | 323.2 | 370.3 | 443.9 | 534.0 | 640.6 | 772.0 | 949.7 | 1221.7 | 1544.9 | 1664.7 | 1716.0 |
| 22.5° | 239.7 | 267.0 | 324.8 | 419.1 | 544.7 | 706.7 | 915.0 | 1266.3 | 1687.1 | 1827.6 | 1866.4 |
| 25° | 198.4 | 205.8 | 232.3 | 314.1 | 443.9 | 633.2 | 888.6 | 1324.2 | 1829.2 | 1987.1 | 2015.2 |
| 27.5° | 178.5 | 182.7 | 195.1 | 225.7 | 347.2 | 572.8 | 853.9 | 1391.1 | 1978.8 | 2145.0 | 2142.5 |
| 30° | 161.2 | 162.0 | 169.5 | 190.9 | 281.9 | 519.1 | 813.4 | 1465.5 | 2111.9 | 2258.2 | 2250.8 |
| 32.5° | 145.5 | 145.5 | 155.4 | 171.9 | 240.5 | 470.3 | 764.6 | 1519.3 | 2227.6 | 2350.8 | 2326.8 |
| 35° | 131.4 | 133.9 | 143.0 | 159.5 | 213.3 | 415.8 | 719.1 | 1539.1 | 2326.8 | 2462.4 | 2394.6 |
| 37.5° | 121.5 | 124.8 | 133.9 | 149.6 | 190.1 | 375.3 | 681.9 | 1562.2 | 2449.2 | 2597.1 | 2470.7 |
| 40° | 114.9 | 117.4 | 125.6 | 138.9 | 171.9 | 341.4 | 641.4 | 1578.0 | 2570.7 | 2741.0 | 2550.8 |
| 42.5° | 108.3 | 110.8 | 119.0 | 131.4 | 163.7 | 301.7 | 602.6 | 1587.0 | 2697.2 | 2865.8 | 2617.8 |
| 45° | 102.5 | 105.8 | 114.1 | 125.6 | 164.5 | 266.2 | 570.3 | 1583.7 | 2773.2 | 2955.9 | 2669.9 |
| 47.5° | 98.4 | 101.7 | 110.8 | 125.6 | 159.5 | 245.5 | 543.1 | 1572.2 | 2829.4 | 3014.6 | 2693.8 |
| 50° | 94.2 | 97.5 | 108.3 | 138.9 | 151.3 | 239.7 | 522.4 | 1570.5 | 2888.1 | 3026.1 | 2693.8 |
| 52.5° | 90.1 | 95.9 | 109.1 | 139.7 | 138.9 | 237.2 | 505.9 | 1614.3 | 2969.1 | 3046.0 | 2717.8 |
| 55° | 87.6 | 92.6 | 112.4 | 128.9 | 121.5 | 229.0 | 496.0 | 1674.7 | 3105.5 | 3155.1 | 2838.5 |
| 57.5° | 84.3 | 88.4 | 110.8 | 120.7 | 108.3 | 210.0 | 487.7 | 1732.5 | 3284.9 | 3357.6 | 3079.0 |
| 60° | 80.2 | 85.1 | 107.5 | 103.3 | 98.4 | 178.5 | 482.7 | 1780.5 | 3351.8 | 3488.2 | 3337.8 |
| 62.5° | 76.0 | 81.8 | 117.4 | 90.1 | 90.9 | 148.8 | 473.6 | 1826.8 | 3210.5 | 3456.8 | 3503.9 |
| 64° | 73.6 | 79.4 | 109.1 | 84.3 | 86.8 | 135.6 | 464.5 | 1829.2 | 3085.6 | 3382.4 | 3535.3 |
| 65° | 71.9 | 76.9 | 101.7 | 81.0 | 83.5 | 132.3 | 456.3 | 1794.5 | 2968.3 | 3303.0 | 3526.2 |
| 67.5° | 69.4 | 72.7 | 78.5 | 75.2 | 77.7 | 126.5 | 400.1 | 1641.6 | 2718.6 | 3098.9 | 3384.9 |
| 70° | 66.1 | 68.6 | 69.4 | 68.6 | 72.7 | 122.3 | 338.1 | 1424.2 | 2445.9 | 2884.8 | 3165.0 |
| 72.5° | 62.8 | 62.8 | 62.8 | 62.0 | 67.0 | 116.5 | 304.2 | 1150.6 | 2113.6 | 2603.7 | 2891.4 |
| 75° | 60.3 | 57.9 | 57.0 | 55.4 | 61.2 | 113.2 | 274.4 | 863.8 | 1633.3 | 2169.0 | 2422.7 |
| 77.5° | 55.4 | 52.9 | 50.4 | 48.8 | 54.6 | 100.8 | 229.0 | 610.0 | 1204.3 | 1578.0 | 1869.7 |
| 80° | 47.9 | 46.3 | 43.0 | 40.5 | 45.5 | 79.4 | 173.6 | 376.9 | 881.1 | 1065.5 | 1226.7 |
| 82.5° | 38.8 | 38.0 | 34.7 | 31.4 | 33.1 | 57.0 | 118.2 | 191.8 | 587.7 | 578.6 | 685.2 |
| 85° | 24.0 | 29.8 | 25.6 | 20.7 | 22.3 | 33.1 | 47.9 | 61.2 | 180.2 | 108.3 | 167.8 |
| 87.5° | 14.1 | 19.0 | 15.7 | 10.7 | 8.3 | 14.9 | 13.2 | 12.4 | 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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| 32.5° | 2021.0 | 1674.7 | 1476.3 | 1480.4 | 1601.9 | 1816.0 | 2117.7 | 2349.2 | 2227.6 | 2159.9 |
| 35° | 2075.6 | 1719.3 | 1510.2 | 1524.2 | 1659.0 | 1859.8 | 2159.9 | 2476.5 | 2369.0 | 2283.9 |
| 37.5° | 2123.5 | 1773.9 | 1577.1 | 1600.3 | 1742.4 | 1923.5 | 2214.4 | 2644.2 | 2526.9 | 2430.2 |
| 40° | 2150.8 | 1822.6 | 1676.3 | 1711.0 | 1850.7 | 2006.1 | 2283.9 | 2753.4 | 2678.1 | 2569.0 |
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| 45° | 2182.2 | 2021.8 | 2075.6 | 2134.2 | 2207.8 | 2169.0 | 2298.7 | 2818.7 | 2807.9 | 2727.7 |
| 47.5° | 2231.0 | 2221.0 | 2353.3 | 2434.3 | 2430.2 | 2297.1 | 2264.0 | 2817.0 | 2834.4 | 2768.2 |
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| 52.5° | 2448.3 | 2685.6 | 2946.8 | 2979.8 | 2915.4 | 2538.4 | 2307.0 | 2857.5 | 2986.5 | 2950.9 |
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| 64° | 3428.7 | 3562.6 | 3756.0 | 3699.8 | 3553.5 | 3297.3 | 3327.8 | 3847.8 | 3708.1 | 3616.3 |
| 65° | 3526.2 | 3578.3 | 3746.9 | 3679.1 | 3544.4 | 3332.0 | 3469.2 | 3888.3 | 3713.9 | 3597.3 |
| 67.5° | 3701.5 | 3488.2 | 3500.6 | 3446.9 | 3326.2 | 3299.7 | 3700.6 | 3865.9 | 3650.2 | 3475.8 |
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| 75° | 2666.6 | 1902.0 | 1617.6 | 1643.3 | 1490.3 | 1659.8 | 2520.3 | 2133.4 | 1827.6 | 1722.6 |
| 77.5° | 2069.8 | 1344.0 | 1117.5 | 1087.0 | 1056.4 | 1074.6 | 1732.5 | 1281.2 | 1067.9 | 971.2 |
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| 82.5° | 700.9 | 486.9 | 553.0 | 443.1 | 356.3 | 256.2 | 301.7 | 202.5 | 171.1 | 179.4 |
| 85° | 191.8 | 100.8 | 28.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 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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