

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: P401800

Luminaire Tested: **ENV-SA1F-727-U-SLR**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401800
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: ENV-SA1F-727-U-SLR
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5758 lumens
Efficiency: N/A
Efficacy: 87.1 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 - 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

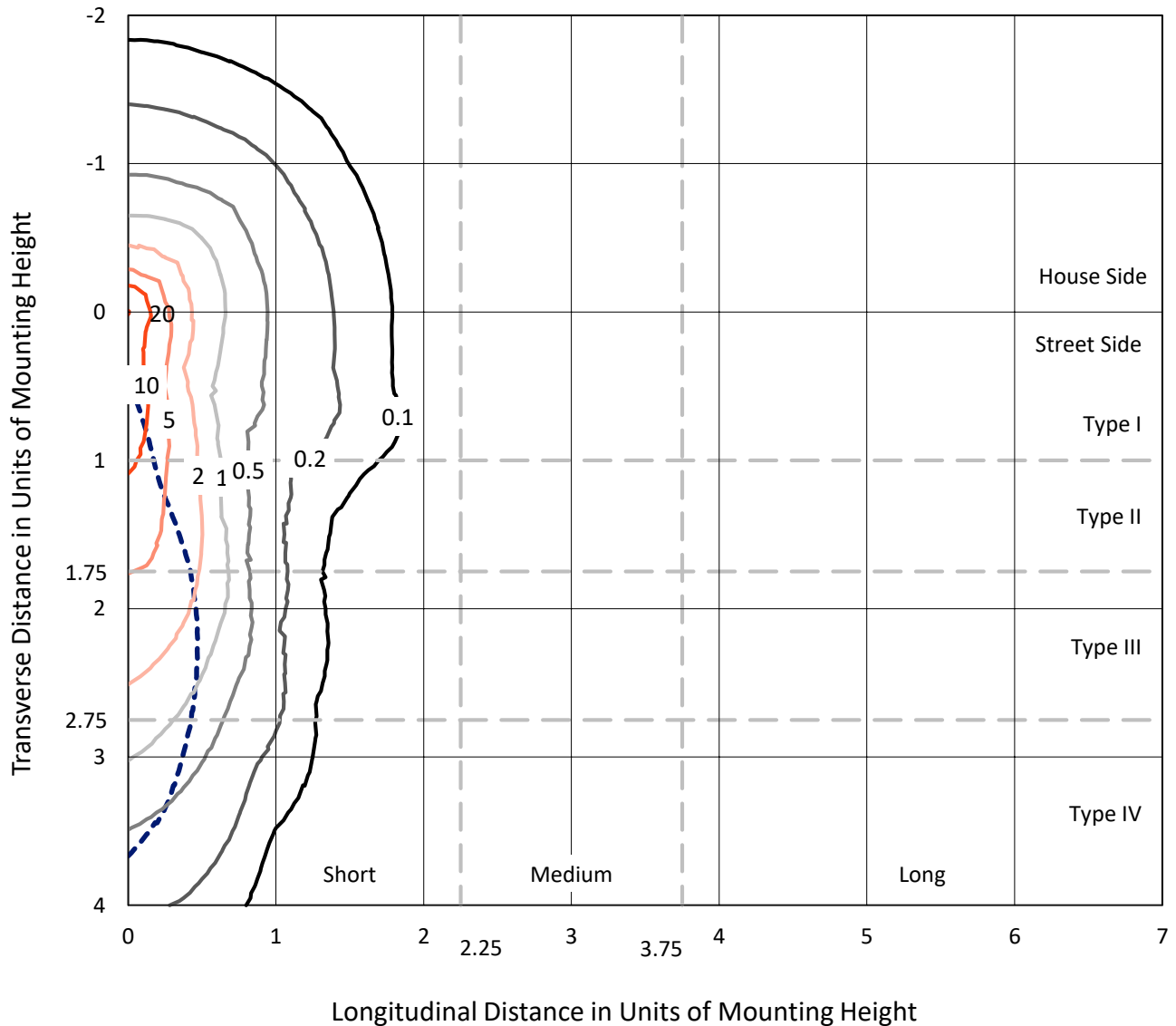


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

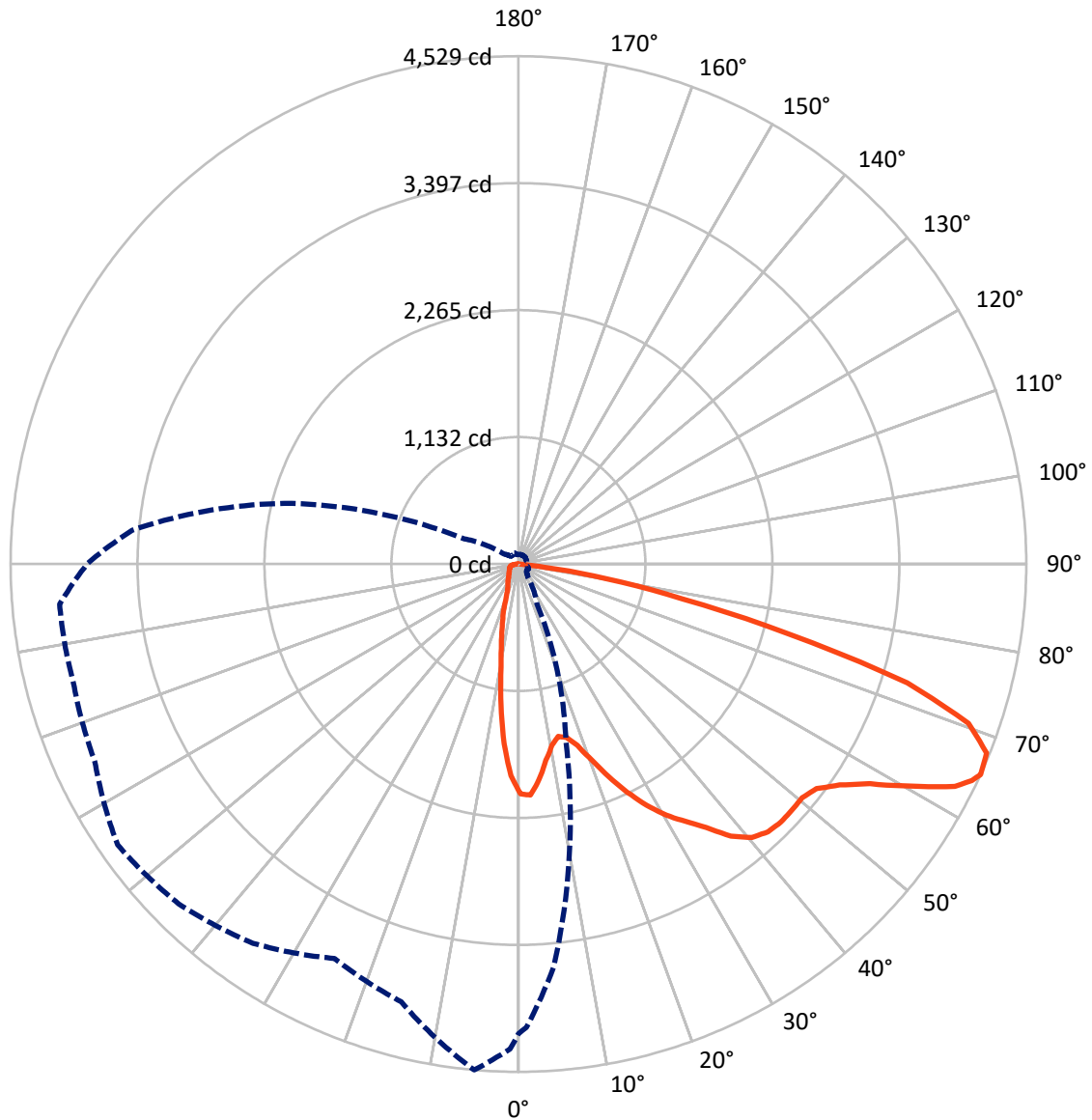


Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
 Type IV - Short - Non-Cutoff

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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 | 1181.4 | 0.0 | 1181.4 |
| | % Fixture | 20.5 | 0.0 | 20.5 |
| Street Side | Lumens | 4576.5 | 0.0 | 4576.5 |
| | % Fixture | 79.5 | 0.0 | 79.5 |
| Total | Lumens | 5758.0 | 0.0 | 5758.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 156.3 | 2.7 |
| 10°-20° | 311.3 | 5.4 |
| 20°-30° | 431.7 | 7.5 |
| 30°-40° | 603.5 | 10.5 |
| 40°-50° | 821.1 | 14.3 |
| 50°-60° | 1122.9 | 19.5 |
| 60°-70° | 1373.0 | 23.8 |
| 70°-80° | 828.9 | 14.4 |
| 80°-90° | 109.3 | 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° | 5758.0 | 100.0 |
| 0°-180° | 5758.0 | 100.0 |



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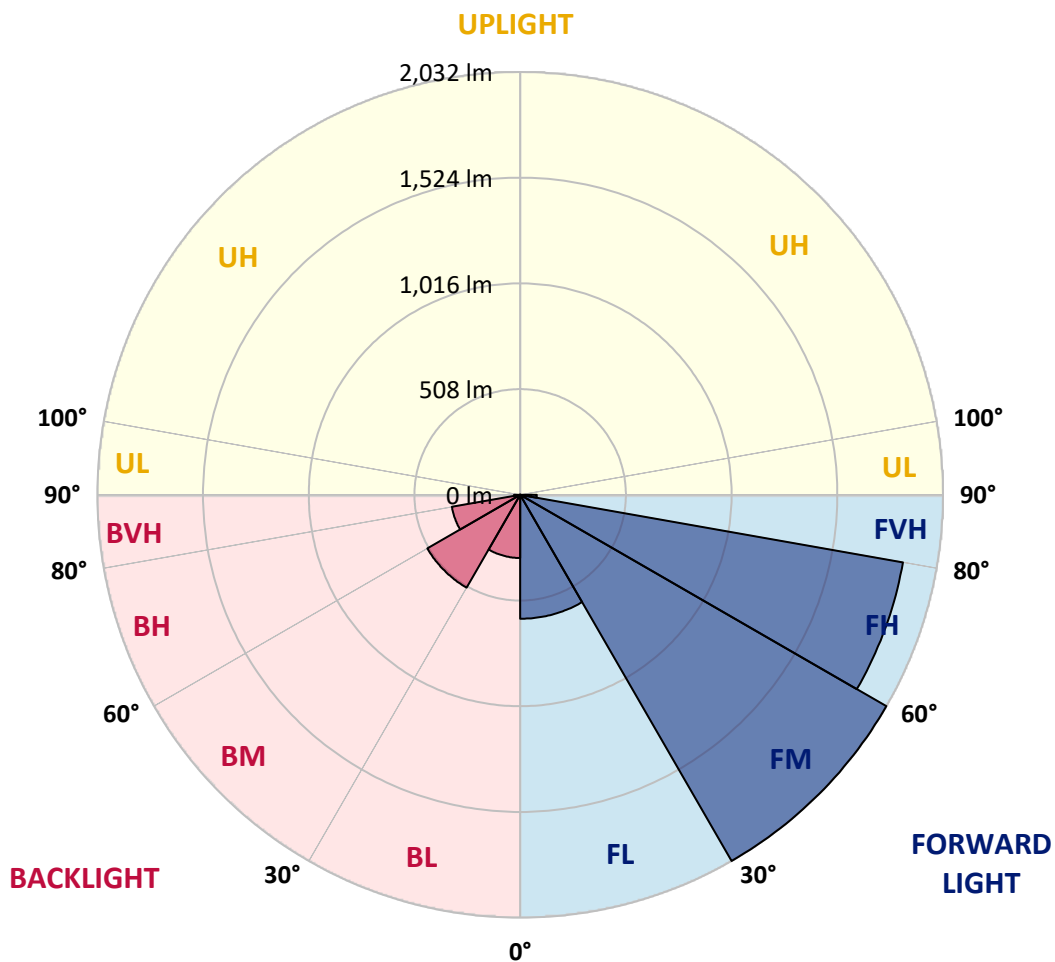
CATALOG NUMBER: ENV-SA1F-727-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 595.8 | 10.3 | | | |
| FM | (30°-60°) | 2032.5 | 35.3 | | | |
| FH | (60°-80°) | 1868.4 | 32.4 | | | G2/5000 |
| FVH | (80°-90°) | 79.9 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 303.6 | 5.3 | B1/500 | | |
| BM | (30°-60°) | 515.0 | 8.9 | B1/1000 | | |
| BH | (60°-80°) | 333.4 | 5.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 29.4 | 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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 |
| 2.5° | 2044.2 | 2038.4 | 2024.0 | 1985.4 | 1944.0 | 1894.9 | 1886.3 | 1833.3 | 1839.1 | 1823.7 | 1827.5 |
| 5° | 1867.0 | 1859.3 | 1819.8 | 1742.8 | 1637.8 | 1577.2 | 1530.0 | 1502.1 | 1479.0 | 1467.4 | 1481.9 |
| 7.5° | 1694.7 | 1684.1 | 1636.9 | 1501.1 | 1384.6 | 1288.3 | 1211.3 | 1164.1 | 1117.9 | 1081.3 | 1064.0 |
| 10° | 1555.0 | 1551.2 | 1488.6 | 1335.5 | 1189.1 | 1071.7 | 1021.6 | 971.5 | 932.1 | 880.1 | 837.7 |
| 12.5° | 1484.8 | 1473.2 | 1399.1 | 1220.9 | 1078.4 | 1006.2 | 959.0 | 895.5 | 841.6 | 778.0 | 723.1 |
| 15° | 1487.6 | 1474.2 | 1381.7 | 1194.9 | 1039.9 | 952.3 | 880.1 | 804.0 | 725.0 | 660.5 | 604.7 |
| 17.5° | 1570.4 | 1560.8 | 1448.2 | 1219.0 | 1007.2 | 885.8 | 773.2 | 675.0 | 588.3 | 507.4 | 457.4 |
| 20° | 1710.1 | 1695.6 | 1539.6 | 1247.9 | 965.8 | 809.8 | 656.7 | 521.9 | 428.5 | 357.2 | 317.7 |
| 22.5° | 1892.0 | 1865.1 | 1669.6 | 1283.5 | 924.4 | 723.1 | 530.5 | 380.3 | 297.5 | 261.9 | 251.3 |
| 25° | 2086.5 | 2065.4 | 1826.6 | 1328.8 | 880.1 | 628.8 | 392.9 | 276.3 | 247.5 | 233.0 | 225.3 |
| 27.5° | 2265.6 | 2231.0 | 1995.1 | 1378.8 | 821.3 | 534.4 | 298.5 | 237.8 | 218.6 | 211.8 | 207.0 |
| 30° | 2393.7 | 2363.9 | 2111.6 | 1436.6 | 770.3 | 436.2 | 255.2 | 215.7 | 200.3 | 189.7 | 187.8 |
| 32.5° | 2516.0 | 2473.6 | 2196.3 | 1463.6 | 727.9 | 383.2 | 235.9 | 200.3 | 185.8 | 175.2 | 171.4 |
| 35° | 2660.4 | 2618.1 | 2293.6 | 1467.4 | 696.2 | 361.1 | 217.6 | 188.7 | 173.3 | 163.7 | 158.9 |
| 37.5° | 2830.8 | 2773.1 | 2403.3 | 1470.3 | 664.4 | 352.4 | 202.2 | 179.1 | 163.7 | 153.1 | 149.2 |
| 40° | 2992.6 | 2948.3 | 2516.0 | 1465.5 | 643.2 | 339.9 | 192.6 | 168.5 | 154.1 | 144.4 | 139.6 |
| 42.5° | 3114.9 | 3067.7 | 2612.3 | 1451.1 | 630.7 | 318.7 | 196.4 | 160.8 | 147.3 | 136.7 | 131.0 |
| 45° | 3177.5 | 3135.1 | 2699.9 | 1437.6 | 623.9 | 300.4 | 192.6 | 157.9 | 142.5 | 130.0 | 124.2 |
| 47.5° | 3224.7 | 3183.3 | 2789.4 | 1431.8 | 612.4 | 286.9 | 177.2 | 168.5 | 137.7 | 123.2 | 117.5 |
| 50° | 3300.7 | 3265.1 | 2910.8 | 1464.5 | 594.1 | 278.3 | 162.7 | 180.1 | 135.8 | 117.5 | 110.7 |
| 52.5° | 3437.5 | 3414.3 | 3111.0 | 1540.6 | 574.8 | 263.8 | 148.3 | 172.4 | 137.7 | 113.6 | 105.9 |
| 55° | 3692.6 | 3678.2 | 3386.4 | 1640.7 | 556.5 | 245.5 | 132.9 | 156.0 | 136.7 | 106.9 | 101.1 |
| 57.5° | 3968.0 | 3964.1 | 3720.5 | 1728.4 | 529.6 | 214.7 | 123.2 | 131.9 | 130.0 | 101.1 | 94.4 |
| 60° | 4152.9 | 4140.4 | 3874.6 | 1777.5 | 494.9 | 177.2 | 115.5 | 111.7 | 132.9 | 95.3 | 87.6 |
| 62.5° | 4216.4 | 4175.0 | 3828.4 | 1759.2 | 442.9 | 153.1 | 106.9 | 102.1 | 123.2 | 89.5 | 80.9 |
| 64° | 4212.6 | 4151.9 | 3708.0 | 1689.8 | 409.2 | 148.3 | 102.1 | 95.3 | 108.8 | 85.7 | 78.0 |
| 65° | 4190.4 | 4132.7 | 3607.9 | 1635.9 | 390.9 | 148.3 | 99.2 | 92.4 | 99.2 | 83.8 | 76.1 |
| 67.5° | 4048.9 | 3972.8 | 3266.1 | 1385.6 | 343.7 | 150.2 | 92.4 | 84.7 | 82.8 | 77.0 | 71.3 |
| 70° | 3726.3 | 3627.1 | 2797.1 | 1090.0 | 318.7 | 151.2 | 84.7 | 77.0 | 74.1 | 70.3 | 65.5 |
| 72.5° | 2992.6 | 2859.7 | 2226.2 | 779.0 | 292.7 | 148.3 | 77.0 | 70.3 | 67.4 | 63.5 | 58.7 |
| 75° | 2006.6 | 1861.2 | 1640.7 | 513.2 | 239.8 | 132.9 | 66.4 | 60.7 | 59.7 | 55.8 | 52.0 |
| 77.5° | 1131.4 | 1070.7 | 968.7 | 282.1 | 165.6 | 91.5 | 53.0 | 49.1 | 50.1 | 48.1 | 44.3 |
| 80° | 591.2 | 563.3 | 518.0 | 136.7 | 79.9 | 44.3 | 33.7 | 33.7 | 38.5 | 38.5 | 36.6 |
| 82.5° | 208.9 | 209.9 | 203.2 | 30.8 | 16.4 | 13.5 | 11.6 | 16.4 | 22.1 | 27.0 | 27.0 |
| 85° | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 3.9 | 6.7 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 |
| 2.5° | 1794.8 | 1800.6 | 1816.0 | 1813.1 | 1828.5 | 1821.8 | 1842.0 | 1852.6 | 1858.3 | 1888.2 | 1902.6 |
| 5° | 1470.3 | 1472.2 | 1527.1 | 1538.7 | 1567.6 | 1552.2 | 1587.8 | 1574.3 | 1603.2 | 1607.0 | 1655.2 |
| 7.5° | 1080.3 | 1084.2 | 1111.2 | 1174.7 | 1237.3 | 1263.3 | 1273.9 | 1290.3 | 1276.8 | 1272.0 | 1278.7 |
| 10° | 821.3 | 824.2 | 827.1 | 872.4 | 927.2 | 982.1 | 982.1 | 983.1 | 959.0 | 934.9 | 930.1 |
| 12.5° | 701.9 | 683.6 | 654.8 | 655.7 | 694.2 | 720.2 | 740.4 | 719.3 | 715.4 | 727.0 | 739.5 |
| 15° | 577.7 | 559.4 | 540.2 | 517.1 | 518.0 | 536.3 | 546.9 | 545.9 | 565.2 | 573.9 | 599.9 |
| 17.5° | 448.7 | 422.7 | 423.7 | 410.2 | 391.9 | 403.4 | 406.3 | 423.7 | 448.7 | 460.3 | 465.1 |
| 20° | 301.4 | 301.4 | 309.1 | 325.5 | 316.8 | 324.5 | 325.5 | 338.9 | 350.5 | 343.7 | 350.5 |
| 22.5° | 249.4 | 248.4 | 251.3 | 261.9 | 270.6 | 277.3 | 279.2 | 278.3 | 266.7 | 261.9 | 271.5 |
| 25° | 226.3 | 225.3 | 226.3 | 232.1 | 241.7 | 250.3 | 246.5 | 240.7 | 227.2 | 226.3 | 228.2 |
| 27.5° | 207.0 | 208.0 | 209.9 | 213.8 | 219.5 | 230.1 | 226.3 | 214.7 | 208.0 | 206.1 | 206.1 |
| 30° | 190.6 | 190.6 | 194.5 | 198.4 | 205.1 | 214.7 | 208.0 | 198.4 | 191.6 | 189.7 | 188.7 |
| 32.5° | 174.3 | 177.2 | 180.1 | 183.9 | 189.7 | 199.3 | 193.5 | 184.9 | 178.1 | 174.3 | 171.4 |
| 35° | 157.9 | 159.8 | 165.6 | 171.4 | 176.2 | 183.9 | 180.1 | 172.4 | 165.6 | 156.9 | 153.1 |
| 37.5° | 148.3 | 148.3 | 151.2 | 159.8 | 163.7 | 169.5 | 167.5 | 160.8 | 150.2 | 143.5 | 142.5 |
| 40° | 139.6 | 139.6 | 140.6 | 145.4 | 152.1 | 158.9 | 155.0 | 144.4 | 137.7 | 134.8 | 133.8 |
| 42.5° | 131.0 | 131.0 | 131.9 | 131.9 | 140.6 | 152.1 | 142.5 | 131.9 | 129.0 | 127.1 | 126.1 |
| 45° | 123.2 | 123.2 | 123.2 | 122.3 | 127.1 | 141.5 | 131.0 | 122.3 | 120.4 | 120.4 | 119.4 |
| 47.5° | 117.5 | 116.5 | 115.5 | 113.6 | 116.5 | 128.1 | 119.4 | 114.6 | 113.6 | 114.6 | 113.6 |
| 50° | 109.8 | 108.8 | 107.8 | 106.9 | 108.8 | 113.6 | 111.7 | 106.9 | 107.8 | 107.8 | 108.8 |
| 52.5° | 103.0 | 102.1 | 101.1 | 100.1 | 102.1 | 105.9 | 105.9 | 102.1 | 102.1 | 103.0 | 104.0 |
| 55° | 99.2 | 97.3 | 96.3 | 96.3 | 97.3 | 102.1 | 101.1 | 98.2 | 98.2 | 100.1 | 101.1 |
| 57.5° | 93.4 | 91.5 | 91.5 | 90.5 | 92.4 | 98.2 | 97.3 | 94.4 | 94.4 | 95.3 | 97.3 |
| 60° | 87.6 | 86.7 | 85.7 | 87.6 | 88.6 | 94.4 | 93.4 | 91.5 | 90.5 | 93.4 | 93.4 |
| 62.5° | 80.9 | 80.9 | 80.9 | 82.8 | 83.8 | 90.5 | 89.5 | 88.6 | 88.6 | 89.5 | 88.6 |
| 64° | 77.0 | 77.0 | 78.0 | 79.0 | 80.9 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 85.7 |
| 65° | 75.1 | 75.1 | 77.0 | 78.0 | 79.0 | 85.7 | 84.7 | 85.7 | 86.7 | 85.7 | 83.8 |
| 67.5° | 70.3 | 70.3 | 73.2 | 73.2 | 74.1 | 81.8 | 80.9 | 82.8 | 84.7 | 82.8 | 80.9 |
| 70° | 64.5 | 65.5 | 68.4 | 67.4 | 69.3 | 78.0 | 75.1 | 79.0 | 82.8 | 79.9 | 78.0 |
| 72.5° | 58.7 | 59.7 | 63.5 | 61.6 | 62.6 | 73.2 | 69.3 | 73.2 | 79.0 | 77.0 | 75.1 |
| 75° | 53.0 | 53.9 | 56.8 | 55.8 | 57.8 | 67.4 | 63.5 | 67.4 | 73.2 | 73.2 | 72.2 |
| 77.5° | 45.3 | 47.2 | 49.1 | 48.1 | 52.0 | 60.7 | 56.8 | 59.7 | 64.5 | 68.4 | 66.4 |
| 80° | 36.6 | 39.5 | 40.4 | 41.4 | 45.3 | 52.0 | 49.1 | 50.1 | 54.9 | 57.8 | 58.7 |
| 82.5° | 25.0 | 29.8 | 31.8 | 32.7 | 38.5 | 40.4 | 41.4 | 40.4 | 43.3 | 47.2 | 44.3 |
| 85° | 7.7 | 9.6 | 18.3 | 23.1 | 28.9 | 28.9 | 33.7 | 31.8 | 33.7 | 29.8 | 25.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 6.7 | 17.3 | 17.3 | 24.1 | 22.1 | 23.1 | 17.3 | 15.4 |
| 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-SA1F-727-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 | 2049.0 |
| 2.5° | 1905.5 | 1921.9 | 1958.5 | 2000.9 | 2024.0 | 2074.0 | 2104.8 | 2137.6 | 2170.3 | 2177.1 | 2187.6 |
| 5° | 1664.8 | 1684.1 | 1725.5 | 1782.3 | 1839.1 | 1905.5 | 1982.6 | 2064.4 | 2154.9 | 2193.4 | 2231.0 |
| 7.5° | 1297.0 | 1300.8 | 1359.6 | 1462.6 | 1512.7 | 1607.0 | 1716.8 | 1842.9 | 1982.6 | 2054.8 | 2131.8 |
| 10° | 958.1 | 997.5 | 1041.8 | 1127.5 | 1253.7 | 1362.5 | 1498.2 | 1645.6 | 1790.9 | 1895.9 | 1975.8 |
| 12.5° | 753.0 | 803.0 | 876.2 | 970.6 | 1065.9 | 1168.9 | 1325.9 | 1483.8 | 1662.9 | 1757.2 | 1855.5 |
| 15° | 620.1 | 683.6 | 779.0 | 878.1 | 966.7 | 1058.2 | 1197.8 | 1391.4 | 1620.5 | 1716.8 | 1804.4 |
| 17.5° | 491.1 | 561.4 | 663.4 | 767.4 | 873.3 | 985.0 | 1146.8 | 1386.5 | 1665.8 | 1777.5 | 1868.0 |
| 20° | 376.5 | 431.4 | 517.1 | 622.0 | 746.2 | 899.3 | 1106.3 | 1423.1 | 1799.6 | 1939.2 | 1998.9 |
| 22.5° | 279.2 | 311.0 | 378.4 | 488.2 | 634.5 | 823.3 | 1065.9 | 1475.1 | 1965.2 | 2128.9 | 2174.2 |
| 25° | 231.1 | 239.8 | 270.6 | 365.9 | 517.1 | 737.6 | 1035.1 | 1542.5 | 2130.8 | 2314.7 | 2347.5 |
| 27.5° | 208.0 | 212.8 | 227.2 | 262.9 | 404.4 | 667.3 | 994.6 | 1620.5 | 2305.1 | 2498.7 | 2495.8 |
| 30° | 187.8 | 188.7 | 197.4 | 222.4 | 328.3 | 604.7 | 947.5 | 1707.2 | 2460.1 | 2630.6 | 2621.9 |
| 32.5° | 169.5 | 169.5 | 181.0 | 200.3 | 280.2 | 547.9 | 890.7 | 1769.8 | 2594.9 | 2738.4 | 2710.5 |
| 35° | 153.1 | 156.0 | 166.6 | 185.8 | 248.4 | 484.3 | 837.7 | 1792.9 | 2710.5 | 2868.4 | 2789.4 |
| 37.5° | 141.5 | 145.4 | 156.0 | 174.3 | 221.5 | 437.1 | 794.4 | 1819.8 | 2853.0 | 3025.3 | 2878.0 |
| 40° | 133.8 | 136.7 | 146.4 | 161.8 | 200.3 | 397.7 | 747.2 | 1838.1 | 2994.5 | 3192.9 | 2971.4 |
| 42.5° | 126.1 | 129.0 | 138.7 | 153.1 | 190.6 | 351.4 | 701.9 | 1848.7 | 3141.9 | 3338.3 | 3049.4 |
| 45° | 119.4 | 123.2 | 132.9 | 146.4 | 191.6 | 310.0 | 664.4 | 1844.9 | 3230.4 | 3443.2 | 3110.1 |
| 47.5° | 114.6 | 118.4 | 129.0 | 146.4 | 185.8 | 286.0 | 632.6 | 1831.4 | 3295.9 | 3511.6 | 3138.0 |
| 50° | 109.8 | 113.6 | 126.1 | 161.8 | 176.2 | 279.2 | 608.5 | 1829.5 | 3364.3 | 3525.1 | 3138.0 |
| 52.5° | 105.0 | 111.7 | 127.1 | 162.7 | 161.8 | 276.3 | 589.3 | 1880.5 | 3458.6 | 3548.2 | 3165.9 |
| 55° | 102.1 | 107.8 | 131.0 | 150.2 | 141.5 | 266.7 | 577.7 | 1950.8 | 3617.5 | 3675.3 | 3306.5 |
| 57.5° | 98.2 | 103.0 | 129.0 | 140.6 | 126.1 | 244.6 | 568.1 | 2018.2 | 3826.5 | 3911.2 | 3586.7 |
| 60° | 93.4 | 99.2 | 125.2 | 120.4 | 114.6 | 208.0 | 562.3 | 2074.0 | 3904.5 | 4063.3 | 3888.1 |
| 62.5° | 88.6 | 95.3 | 136.7 | 105.0 | 105.9 | 173.3 | 551.7 | 2127.9 | 3739.8 | 4026.7 | 4081.6 |
| 64° | 85.7 | 92.4 | 127.1 | 98.2 | 101.1 | 157.9 | 541.1 | 2130.8 | 3594.4 | 3940.1 | 4118.2 |
| 65° | 83.8 | 89.5 | 118.4 | 94.4 | 97.3 | 154.1 | 531.5 | 2090.4 | 3457.7 | 3847.6 | 4107.6 |
| 67.5° | 80.9 | 84.7 | 91.5 | 87.6 | 90.5 | 147.3 | 466.0 | 1912.3 | 3166.9 | 3609.8 | 3943.0 |
| 70° | 77.0 | 79.9 | 80.9 | 79.9 | 84.7 | 142.5 | 393.8 | 1659.0 | 2849.1 | 3360.4 | 3686.8 |
| 72.5° | 73.2 | 73.2 | 73.2 | 72.2 | 78.0 | 135.8 | 354.3 | 1340.3 | 2462.1 | 3033.1 | 3368.1 |
| 75° | 70.3 | 67.4 | 66.4 | 64.5 | 71.3 | 131.9 | 319.7 | 1006.2 | 1902.6 | 2526.6 | 2822.2 |
| 77.5° | 64.5 | 61.6 | 58.7 | 56.8 | 63.5 | 117.5 | 266.7 | 710.6 | 1402.9 | 1838.1 | 2178.0 |
| 80° | 55.8 | 53.9 | 50.1 | 47.2 | 53.0 | 92.4 | 202.2 | 439.1 | 1026.4 | 1241.1 | 1428.9 |
| 82.5° | 45.3 | 44.3 | 40.4 | 36.6 | 38.5 | 66.4 | 137.7 | 223.4 | 684.6 | 674.0 | 798.2 |
| 85° | 27.9 | 34.7 | 29.8 | 24.1 | 26.0 | 38.5 | 55.8 | 71.3 | 209.9 | 126.1 | 195.5 |
| 87.5° | 16.4 | 22.1 | 18.3 | 12.5 | 9.6 | 17.3 | 15.4 | 14.4 | 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° | 2354.2 | 1950.8 | 1719.7 | 1724.5 | 1866.0 | 2115.4 | 2466.9 | 2736.5 | 2594.9 | 2516.0 |
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| 37.5° | 2473.6 | 2066.3 | 1837.2 | 1864.1 | 2029.7 | 2240.6 | 2579.5 | 3080.2 | 2943.5 | 2830.8 |
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| 85° | 223.4 | 117.5 | 32.7 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 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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