

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: P401798

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

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1F-727-U-SLL
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR LEFT 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 III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

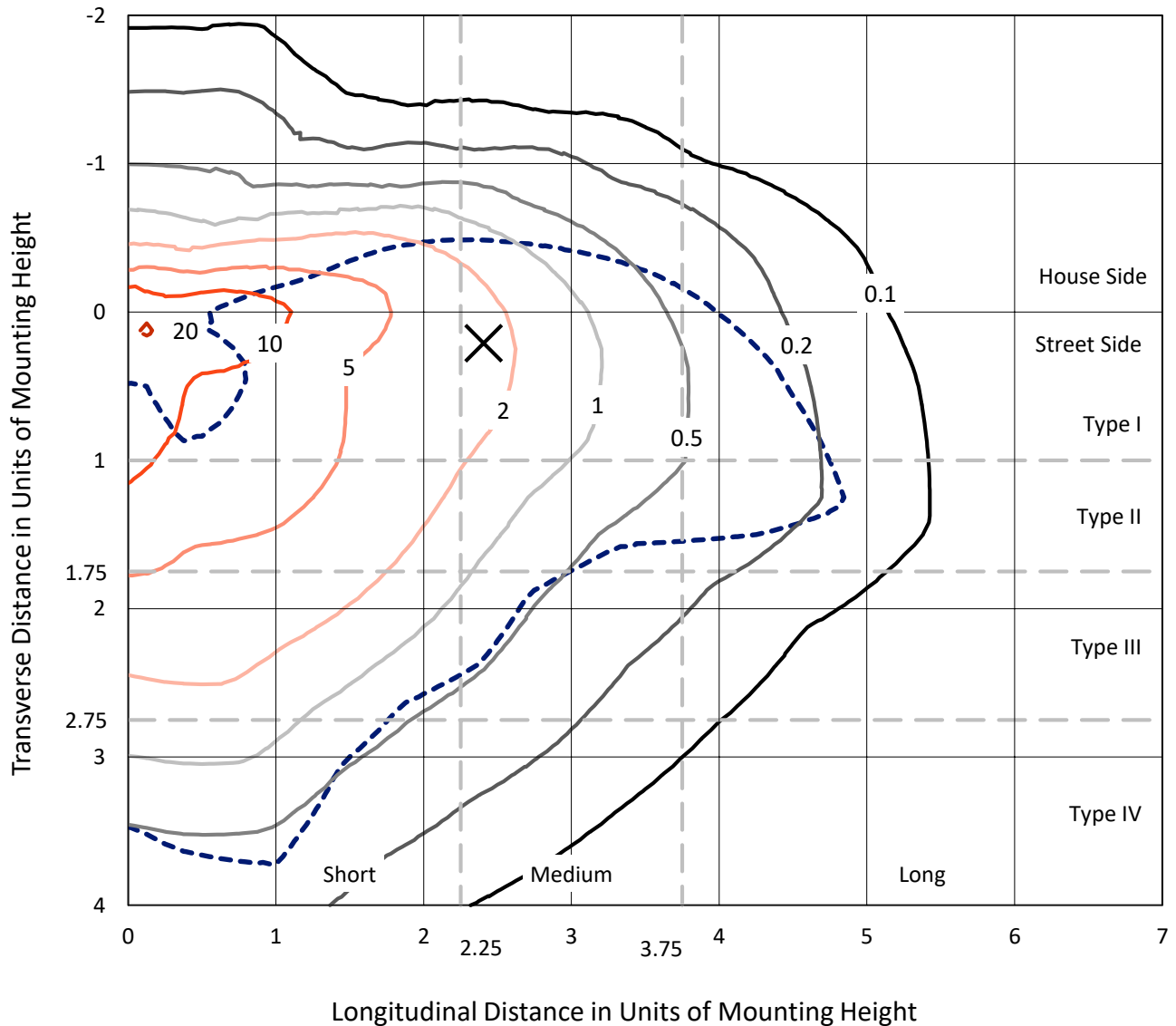
Input Watts (W): 66.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

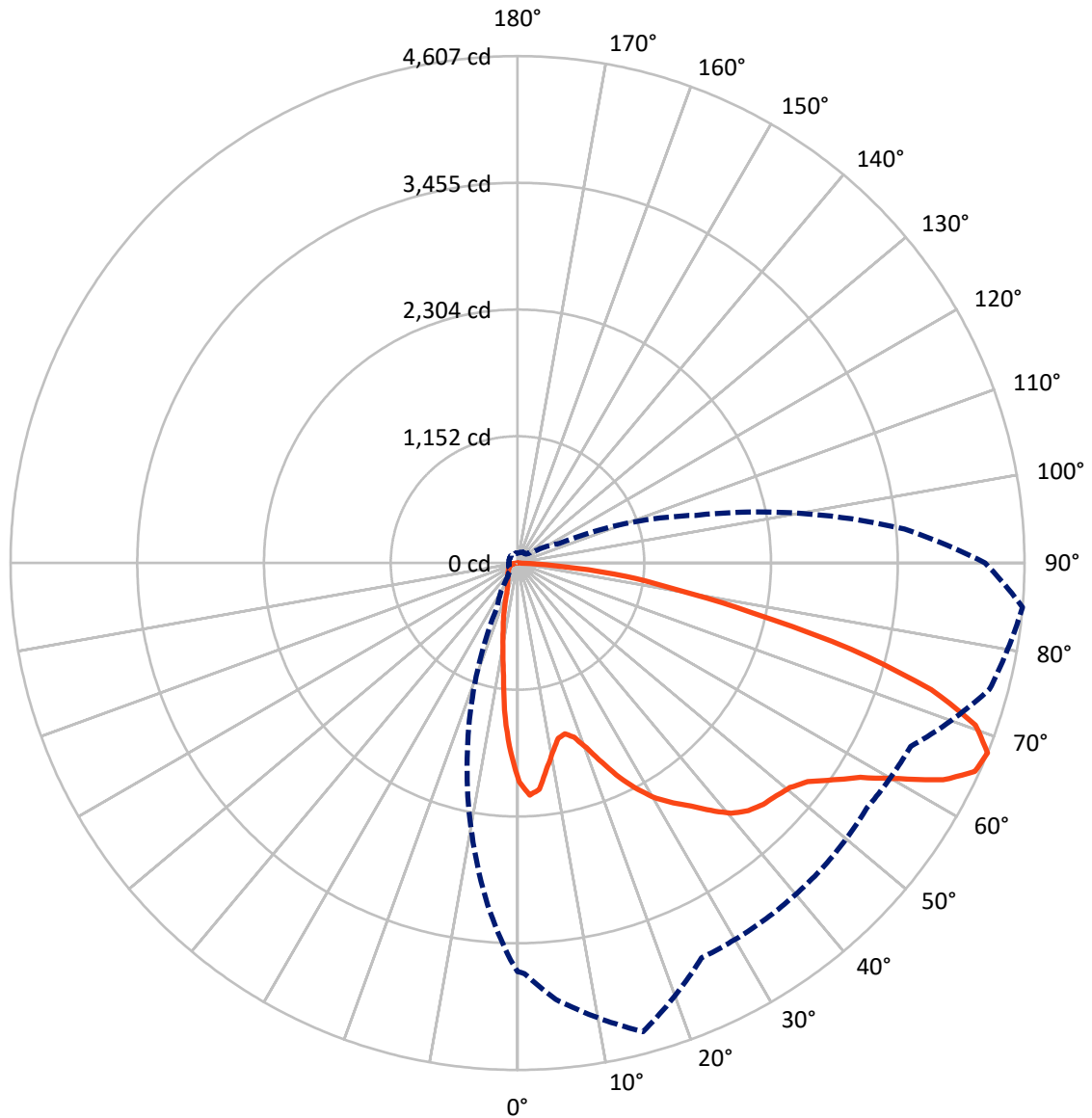
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1160.1 | 0.0 | 1160.1 |
| | % Fixture | 20.1 | 0.0 | 20.1 |
| Street Side | Lumens | 4597.9 | 0.0 | 4597.9 |
| | % Fixture | 79.9 | 0.0 | 79.9 |
| 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° | 151.3 | 2.6 |
| 10°-20° | 298.3 | 5.2 |
| 20°-30° | 416.8 | 7.2 |
| 30°-40° | 587.5 | 10.2 |
| 40°-50° | 814.1 | 14.1 |
| 50°-60° | 1143.9 | 19.9 |
| 60°-70° | 1398.5 | 24.3 |
| 70°-80° | 821.9 | 14.3 |
| 80°-90° | 125.9 | 2.2 |
| 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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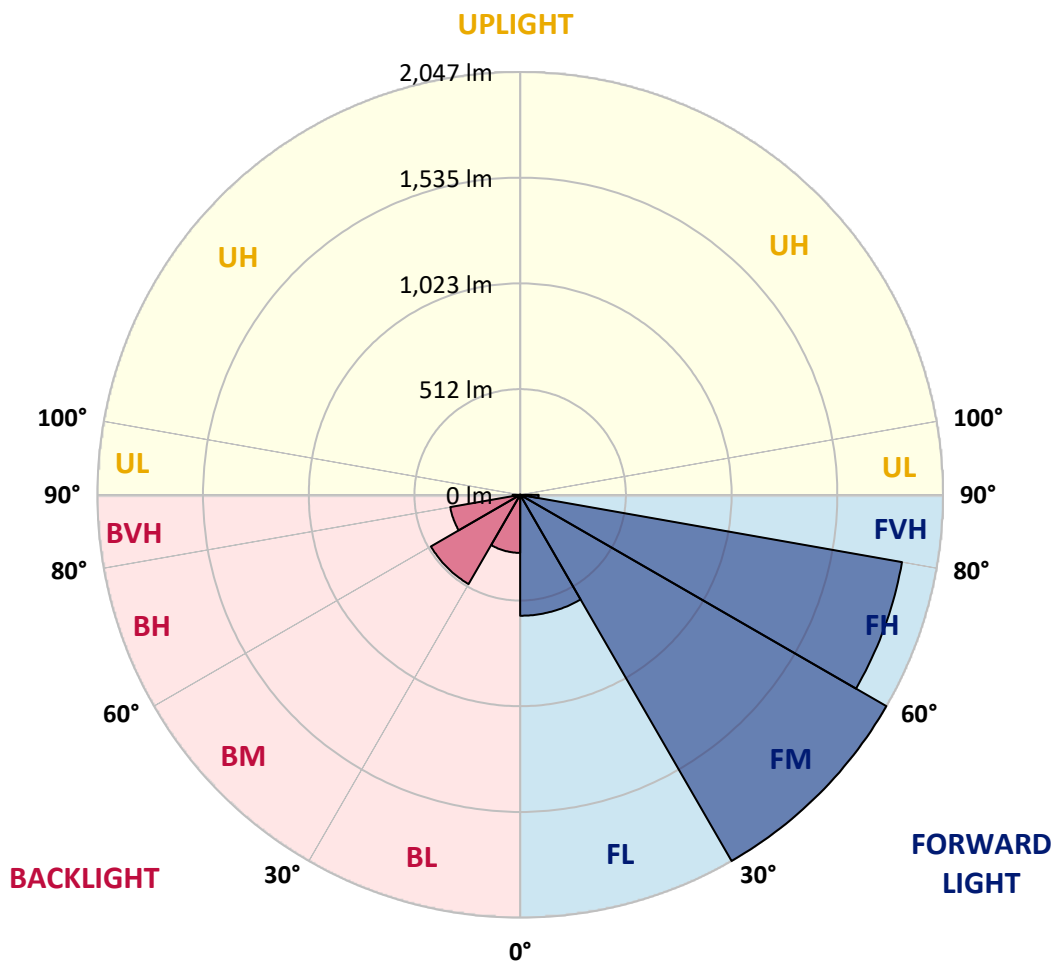
CATALOG NUMBER: ENV-SA1F-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 585.3 | 10.2 | | | |
| FM | (30°-60°) | 2046.7 | 35.5 | | | |
| FH | (60°-80°) | 1876.7 | 32.6 | | | G2/5000 |
| FVH | (80°-90°) | 89.1 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 281.0 | 4.9 | B1/500 | | |
| BM | (30°-60°) | 498.7 | 8.7 | B1/1000 | | |
| BH | (60°-80°) | 343.6 | 6.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 36.8 | 0.6 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 |
| 2.5° | 2043.9 | 2034.6 | 2066.1 | 2112.4 | 2143.9 | 2166.1 | 2173.5 | 2172.6 | 2166.1 | 2148.5 | 2111.5 |
| 5° | 1953.2 | 1944.8 | 2008.7 | 2111.5 | 2201.3 | 2266.1 | 2284.6 | 2258.7 | 2226.3 | 2157.8 | 2067.0 |
| 7.5° | 1781.0 | 1794.0 | 1875.4 | 2019.8 | 2164.2 | 2267.0 | 2292.0 | 2251.2 | 2184.6 | 2044.8 | 1892.1 |
| 10° | 1650.5 | 1657.0 | 1748.6 | 1922.6 | 2076.3 | 2181.8 | 2225.3 | 2189.2 | 2102.2 | 1925.4 | 1748.6 |
| 12.5° | 1569.9 | 1576.4 | 1665.3 | 1826.4 | 1990.2 | 2072.6 | 2085.6 | 2084.6 | 2012.4 | 1841.2 | 1636.6 |
| 15° | 1581.1 | 1589.4 | 1678.3 | 1811.6 | 1904.1 | 1940.2 | 1941.1 | 1951.3 | 1930.0 | 1799.5 | 1609.8 |
| 17.5° | 1688.4 | 1688.4 | 1773.6 | 1854.1 | 1832.8 | 1806.9 | 1826.4 | 1844.9 | 1881.9 | 1824.5 | 1664.4 |
| 20° | 1857.8 | 1865.2 | 1943.9 | 1930.0 | 1800.4 | 1735.6 | 1712.5 | 1744.9 | 1859.7 | 1899.5 | 1793.0 |
| 22.5° | 2041.1 | 2060.6 | 2142.9 | 2041.1 | 1794.9 | 1669.0 | 1643.1 | 1678.3 | 1862.5 | 2018.0 | 1969.8 |
| 25° | 2243.8 | 2267.9 | 2323.5 | 2170.7 | 1811.6 | 1632.0 | 1614.4 | 1647.7 | 1869.9 | 2127.2 | 2160.5 |
| 27.5° | 2429.0 | 2430.8 | 2485.4 | 2279.9 | 1855.1 | 1635.7 | 1606.1 | 1649.6 | 1890.2 | 2213.3 | 2329.0 |
| 30° | 2560.4 | 2560.4 | 2584.5 | 2335.5 | 1908.7 | 1658.8 | 1613.5 | 1677.3 | 1918.9 | 2260.5 | 2481.7 |
| 32.5° | 2680.8 | 2687.2 | 2675.2 | 2393.8 | 1959.7 | 1692.1 | 1631.0 | 1732.9 | 1964.3 | 2299.4 | 2599.3 |
| 35° | 2833.5 | 2832.6 | 2778.9 | 2440.1 | 2006.9 | 1728.2 | 1674.6 | 1803.2 | 2030.0 | 2356.8 | 2711.3 |
| 37.5° | 3022.3 | 3013.1 | 2899.2 | 2481.7 | 2064.3 | 1790.3 | 1756.9 | 1899.5 | 2117.9 | 2424.3 | 2852.9 |
| 40° | 3193.6 | 3178.8 | 3009.4 | 2520.6 | 2109.6 | 1910.6 | 1891.2 | 2018.9 | 2229.0 | 2508.6 | 2990.9 |
| 42.5° | 3326.9 | 3304.7 | 3102.9 | 2548.4 | 2178.1 | 2099.4 | 2116.1 | 2233.7 | 2341.0 | 2583.6 | 3077.0 |
| 45° | 3438.9 | 3415.7 | 3173.2 | 2562.3 | 2343.8 | 2368.8 | 2401.2 | 2499.3 | 2460.5 | 2603.9 | 3129.7 |
| 47.5° | 3519.4 | 3481.5 | 3203.8 | 2603.0 | 2567.8 | 2683.5 | 2783.5 | 2790.0 | 2628.9 | 2603.0 | 3162.1 |
| 50° | 3566.6 | 3525.0 | 3232.5 | 2703.9 | 2827.9 | 3040.8 | 3147.3 | 3097.3 | 2803.9 | 2619.7 | 3208.4 |
| 52.5° | 3662.0 | 3618.5 | 3351.9 | 2867.7 | 3094.5 | 3402.8 | 3460.2 | 3379.6 | 2985.3 | 2705.8 | 3301.0 |
| 55° | 3901.7 | 3882.3 | 3583.3 | 3088.1 | 3356.5 | 3695.3 | 3721.2 | 3640.7 | 3175.1 | 2854.8 | 3477.8 |
| 57.5° | 4173.0 | 4130.4 | 3896.2 | 3364.8 | 3607.4 | 3923.9 | 3965.6 | 3854.5 | 3374.1 | 3064.0 | 3674.9 |
| 60° | 4248.9 | 4240.5 | 4160.9 | 3687.9 | 3866.6 | 4168.3 | 4171.1 | 4029.5 | 3606.4 | 3313.0 | 3975.8 |
| 62.5° | 4137.8 | 4164.6 | 4271.1 | 3986.9 | 4084.1 | 4332.2 | 4309.0 | 4161.8 | 3849.9 | 3709.2 | 4341.4 |
| 65° | 3944.3 | 3982.3 | 4196.1 | 4269.2 | 4134.1 | 4299.8 | 4250.7 | 4157.2 | 4003.6 | 4135.9 | 4568.2 |
| 67.5° | 3712.0 | 3732.3 | 3981.3 | 4409.9 | 3959.1 | 3943.4 | 3920.2 | 3877.7 | 3942.5 | 4439.5 | 4607.1 |
| 70° | 3470.4 | 3488.0 | 3717.5 | 4216.5 | 3434.3 | 3253.8 | 3234.3 | 3197.3 | 3450.0 | 4435.8 | 4416.4 |
| 72.5° | 2925.1 | 2914.0 | 3126.0 | 3519.4 | 2622.4 | 2377.1 | 2541.9 | 2461.4 | 2790.9 | 3985.0 | 3934.1 |
| 75° | 1817.1 | 1878.2 | 2143.9 | 2467.9 | 1796.7 | 1628.3 | 1856.0 | 1835.6 | 2266.1 | 3431.5 | 3132.5 |
| 77.5° | 1107.1 | 1119.1 | 1269.1 | 1538.5 | 1082.1 | 1128.4 | 1193.2 | 1319.1 | 1680.1 | 2781.7 | 2183.7 |
| 80° | 579.5 | 538.7 | 648.9 | 844.2 | 642.4 | 757.2 | 874.8 | 1013.6 | 1066.4 | 1813.4 | 1459.8 |
| 82.5° | 167.5 | 166.6 | 219.4 | 353.6 | 304.5 | 372.1 | 441.5 | 636.9 | 698.9 | 1078.4 | 999.7 |
| 85° | 0.9 | 0.9 | 0.9 | 1.9 | 2.8 | 4.6 | 19.4 | 163.8 | 216.6 | 499.9 | 411.0 |
| 87.5° | 0.0 | 0.0 | 0.9 | 1.9 | 1.9 | 3.7 | 5.6 | 7.4 | 9.3 | 11.1 | 40.7 |
| 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° | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 |
| 2.5° | 2099.4 | 2085.6 | 2055.9 | 2016.1 | 1988.4 | 1940.2 | 1930.0 | 1899.5 | 1868.9 | 1843.9 | 1844.9 |
| 5° | 2023.5 | 1976.3 | 1904.1 | 1820.8 | 1741.2 | 1669.9 | 1656.0 | 1614.4 | 1602.3 | 1590.3 | 1557.0 |
| 7.5° | 1824.5 | 1769.0 | 1668.1 | 1545.0 | 1445.0 | 1377.4 | 1305.2 | 1261.7 | 1222.8 | 1178.4 | 1189.5 |
| 10° | 1671.8 | 1592.2 | 1453.3 | 1308.9 | 1183.9 | 1093.2 | 1013.6 | 972.9 | 916.4 | 875.7 | 870.1 |
| 12.5° | 1554.2 | 1468.1 | 1301.5 | 1132.1 | 1014.5 | 961.8 | 910.9 | 847.0 | 784.0 | 730.4 | 702.6 |
| 15° | 1515.3 | 1418.1 | 1224.7 | 1056.2 | 963.6 | 899.8 | 828.5 | 755.4 | 678.5 | 621.1 | 598.9 |
| 17.5° | 1560.7 | 1445.9 | 1223.7 | 1023.8 | 908.1 | 814.6 | 725.7 | 643.3 | 552.6 | 495.2 | 477.6 |
| 20° | 1685.7 | 1542.2 | 1249.7 | 993.3 | 840.5 | 713.7 | 588.7 | 499.9 | 407.3 | 366.6 | 348.1 |
| 22.5° | 1859.7 | 1672.7 | 1289.5 | 956.2 | 765.5 | 590.6 | 449.9 | 337.9 | 292.5 | 272.1 | 267.5 |
| 25° | 2038.3 | 1838.4 | 1345.9 | 924.8 | 683.1 | 470.2 | 323.1 | 270.3 | 249.0 | 239.8 | 239.8 |
| 27.5° | 2234.6 | 2004.1 | 1407.0 | 886.8 | 598.0 | 349.9 | 262.9 | 237.9 | 226.8 | 221.2 | 220.3 |
| 30° | 2393.8 | 2139.2 | 1476.5 | 842.4 | 521.2 | 287.0 | 233.3 | 216.6 | 206.4 | 203.6 | 203.6 |
| 32.5° | 2508.6 | 2240.1 | 1549.6 | 797.9 | 450.8 | 259.2 | 216.6 | 201.8 | 190.7 | 188.8 | 188.8 |
| 35° | 2642.8 | 2336.4 | 1582.9 | 772.9 | 408.2 | 241.6 | 204.6 | 189.8 | 179.6 | 175.0 | 175.0 |
| 37.5° | 2803.9 | 2451.2 | 1601.4 | 748.9 | 389.7 | 224.9 | 196.2 | 179.6 | 169.4 | 163.8 | 163.8 |
| 40° | 3008.5 | 2581.7 | 1620.9 | 724.8 | 378.6 | 211.1 | 187.0 | 170.3 | 162.0 | 155.5 | 155.5 |
| 42.5° | 3154.7 | 2702.1 | 1635.7 | 704.4 | 359.2 | 204.6 | 179.6 | 163.8 | 153.7 | 148.1 | 147.2 |
| 45° | 3231.5 | 2814.1 | 1642.2 | 692.4 | 336.9 | 210.1 | 174.0 | 158.3 | 146.3 | 140.7 | 139.8 |
| 47.5° | 3283.4 | 2906.6 | 1650.5 | 683.1 | 319.4 | 199.9 | 173.1 | 152.7 | 140.7 | 133.3 | 133.3 |
| 50° | 3365.8 | 3028.8 | 1671.8 | 665.6 | 309.2 | 187.0 | 187.0 | 150.0 | 134.2 | 127.7 | 126.8 |
| 52.5° | 3512.9 | 3203.8 | 1729.2 | 646.1 | 298.1 | 174.0 | 192.5 | 150.9 | 129.6 | 122.2 | 120.3 |
| 55° | 3735.1 | 3482.4 | 1824.5 | 618.4 | 282.3 | 158.3 | 179.6 | 151.8 | 125.0 | 118.5 | 115.7 |
| 57.5° | 4023.9 | 3819.3 | 1935.6 | 596.1 | 255.5 | 145.3 | 163.8 | 147.2 | 119.4 | 113.9 | 112.0 |
| 60° | 4218.3 | 4044.3 | 2005.9 | 567.4 | 217.5 | 137.0 | 140.7 | 142.6 | 113.9 | 107.4 | 106.5 |
| 62.5° | 4322.9 | 4048.0 | 2006.9 | 527.6 | 182.4 | 129.6 | 125.9 | 145.3 | 109.2 | 100.9 | 100.0 |
| 65° | 4330.3 | 3850.8 | 1906.0 | 476.7 | 170.3 | 121.3 | 115.7 | 128.7 | 104.6 | 96.3 | 95.3 |
| 67.5° | 4249.8 | 3529.6 | 1675.5 | 418.4 | 175.0 | 114.8 | 107.4 | 108.3 | 99.0 | 91.6 | 90.7 |
| 70° | 3961.0 | 3114.0 | 1344.1 | 372.1 | 175.9 | 106.5 | 100.9 | 98.1 | 93.5 | 87.0 | 85.2 |
| 72.5° | 3417.6 | 2602.1 | 1018.2 | 357.3 | 178.7 | 100.0 | 93.5 | 90.7 | 87.0 | 81.5 | 79.6 |
| 75° | 2578.9 | 2030.0 | 764.6 | 333.2 | 180.5 | 92.6 | 85.2 | 83.3 | 79.6 | 74.1 | 73.1 |
| 77.5° | 1781.9 | 1505.2 | 531.3 | 281.4 | 161.1 | 84.2 | 76.8 | 75.0 | 72.2 | 66.6 | 65.7 |
| 80° | 1203.4 | 1032.1 | 325.8 | 211.1 | 122.2 | 74.1 | 66.6 | 66.6 | 63.9 | 58.3 | 58.3 |
| 82.5° | 837.7 | 771.1 | 187.9 | 137.9 | 88.9 | 61.1 | 58.3 | 58.3 | 55.5 | 50.0 | 49.1 |
| 85° | 349.9 | 466.5 | 84.2 | 75.0 | 62.0 | 48.1 | 48.1 | 49.1 | 46.3 | 41.7 | 40.7 |
| 87.5° | 12.0 | 50.0 | 33.3 | 35.2 | 37.0 | 33.3 | 37.0 | 37.0 | 36.1 | 32.4 | 31.5 |
| 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-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 | 1989.3 |
| 2.5° | 1818.0 | 1806.0 | 1769.0 | 1764.3 | 1736.6 | 1734.7 | 1746.8 | 1726.4 | 1728.2 | 1753.2 | 1749.5 |
| 5° | 1564.4 | 1536.6 | 1535.7 | 1505.2 | 1470.9 | 1462.6 | 1432.9 | 1421.8 | 1417.2 | 1407.0 | 1444.1 |
| 7.5° | 1223.7 | 1210.8 | 1221.9 | 1218.2 | 1186.7 | 1169.1 | 1106.2 | 1058.0 | 1034.0 | 1044.2 | 1046.9 |
| 10° | 870.1 | 889.6 | 919.2 | 947.9 | 925.7 | 867.4 | 840.5 | 801.6 | 797.0 | 794.2 | 812.7 |
| 12.5° | 689.6 | 667.4 | 681.3 | 691.5 | 670.2 | 645.2 | 634.1 | 617.4 | 626.7 | 648.0 | 660.0 |
| 15° | 573.0 | 534.1 | 516.5 | 504.5 | 510.0 | 495.2 | 500.8 | 495.2 | 501.7 | 508.2 | 530.4 |
| 17.5° | 452.7 | 438.8 | 405.4 | 389.7 | 390.6 | 384.2 | 386.0 | 385.1 | 381.4 | 396.2 | 413.8 |
| 20° | 340.6 | 336.9 | 329.5 | 318.4 | 320.3 | 315.7 | 312.9 | 297.1 | 290.7 | 295.3 | 310.1 |
| 22.5° | 265.7 | 270.3 | 274.9 | 274.0 | 278.6 | 266.6 | 255.5 | 241.6 | 239.8 | 240.7 | 244.4 |
| 25° | 237.9 | 239.8 | 243.5 | 248.1 | 250.9 | 239.8 | 224.0 | 215.7 | 214.8 | 216.6 | 216.6 |
| 27.5° | 221.2 | 219.4 | 224.0 | 229.6 | 233.3 | 219.4 | 206.4 | 199.0 | 197.2 | 195.3 | 194.4 |
| 30° | 203.6 | 203.6 | 207.4 | 212.9 | 215.7 | 203.6 | 192.5 | 185.1 | 180.5 | 177.7 | 176.8 |
| 32.5° | 190.7 | 191.6 | 193.5 | 197.2 | 201.8 | 189.8 | 180.5 | 174.0 | 165.7 | 162.9 | 161.1 |
| 35° | 175.9 | 179.6 | 182.4 | 183.3 | 187.0 | 178.7 | 169.4 | 159.2 | 151.8 | 149.0 | 149.0 |
| 37.5° | 163.8 | 166.6 | 171.3 | 170.3 | 173.1 | 167.5 | 157.4 | 146.3 | 142.6 | 141.6 | 140.7 |
| 40° | 154.6 | 154.6 | 158.3 | 162.0 | 165.7 | 155.5 | 143.5 | 137.9 | 135.1 | 133.3 | 134.2 |
| 42.5° | 146.3 | 145.3 | 145.3 | 151.8 | 158.3 | 143.5 | 133.3 | 129.6 | 128.7 | 126.8 | 127.7 |
| 45° | 138.9 | 137.9 | 135.1 | 137.9 | 147.2 | 131.4 | 125.0 | 122.2 | 121.3 | 121.3 | 121.3 |
| 47.5° | 132.4 | 130.5 | 126.8 | 127.7 | 134.2 | 122.2 | 116.6 | 115.7 | 114.8 | 114.8 | 115.7 |
| 50° | 125.0 | 123.1 | 120.3 | 119.4 | 121.3 | 115.7 | 111.1 | 109.2 | 109.2 | 109.2 | 111.1 |
| 52.5° | 118.5 | 117.6 | 113.9 | 112.9 | 113.9 | 110.2 | 105.5 | 104.6 | 104.6 | 104.6 | 107.4 |
| 55° | 113.9 | 112.0 | 110.2 | 108.3 | 110.2 | 105.5 | 101.8 | 100.0 | 100.0 | 101.8 | 103.7 |
| 57.5° | 109.2 | 107.4 | 106.5 | 104.6 | 106.5 | 101.8 | 98.1 | 96.3 | 97.2 | 98.1 | 98.1 |
| 60° | 104.6 | 102.8 | 101.8 | 100.0 | 102.8 | 98.1 | 94.4 | 93.5 | 93.5 | 92.6 | 92.6 |
| 62.5° | 100.0 | 99.0 | 97.2 | 95.3 | 99.0 | 93.5 | 90.7 | 88.9 | 87.9 | 87.9 | 87.9 |
| 65° | 94.4 | 93.5 | 92.6 | 91.6 | 93.5 | 88.9 | 86.1 | 85.2 | 83.3 | 82.4 | 83.3 |
| 67.5° | 89.8 | 89.8 | 87.9 | 86.1 | 88.9 | 83.3 | 81.5 | 80.5 | 77.8 | 76.8 | 77.8 |
| 70° | 84.2 | 84.2 | 82.4 | 81.5 | 85.2 | 77.8 | 75.9 | 75.0 | 73.1 | 72.2 | 72.2 |
| 72.5° | 78.7 | 78.7 | 76.8 | 75.9 | 80.5 | 72.2 | 70.4 | 69.4 | 66.6 | 65.7 | 65.7 |
| 75° | 73.1 | 72.2 | 71.3 | 70.4 | 75.9 | 66.6 | 63.9 | 62.0 | 59.2 | 58.3 | 57.4 |
| 77.5° | 66.6 | 65.7 | 63.9 | 64.8 | 68.5 | 59.2 | 55.5 | 54.6 | 51.8 | 50.9 | 50.0 |
| 80° | 58.3 | 57.4 | 56.5 | 58.3 | 58.3 | 51.8 | 47.2 | 45.4 | 42.6 | 40.7 | 39.8 |
| 82.5° | 50.0 | 49.1 | 49.1 | 50.9 | 48.1 | 45.4 | 39.8 | 36.1 | 31.5 | 28.7 | 27.8 |
| 85° | 40.7 | 42.6 | 40.7 | 42.6 | 36.1 | 36.1 | 27.8 | 21.3 | 14.8 | 12.0 | 11.1 |
| 87.5° | 31.5 | 32.4 | 31.5 | 32.4 | 25.0 | 24.1 | 13.0 | 7.4 | 0.9 | 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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| 47.5° | 119.4 | 130.5 | 155.5 | 174.0 | 262.0 | 576.7 | 1580.1 | 3172.3 | 3488.0 | 3519.4 |
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| 65° | 89.8 | 104.6 | 94.4 | 99.0 | 162.9 | 497.1 | 1988.4 | 3433.3 | 3860.1 | 3944.3 |
| 67.5° | 83.3 | 86.1 | 86.1 | 91.6 | 159.2 | 431.4 | 1759.7 | 3117.7 | 3610.1 | 3712.0 |
| 70° | 75.9 | 76.8 | 78.7 | 87.0 | 148.1 | 371.2 | 1432.9 | 2781.7 | 3341.7 | 3470.4 |
| 72.5° | 68.5 | 69.4 | 69.4 | 78.7 | 138.9 | 320.3 | 1014.5 | 2204.0 | 2790.0 | 2925.1 |
| 75° | 60.2 | 61.1 | 60.2 | 68.5 | 121.3 | 239.8 | 602.6 | 1394.1 | 1664.4 | 1817.1 |
| 77.5° | 50.9 | 50.9 | 49.1 | 53.7 | 83.3 | 151.8 | 329.5 | 847.0 | 1012.7 | 1107.1 |
| 80° | 41.7 | 38.0 | 31.5 | 32.4 | 45.4 | 87.0 | 147.2 | 486.0 | 555.4 | 579.5 |
| 82.5° | 27.8 | 21.3 | 13.0 | 12.0 | 14.8 | 24.1 | 34.3 | 192.5 | 176.8 | 167.5 |
| 85° | 5.6 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |
| 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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