

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: P401601

Luminaire Tested: **ENV-SA1E-722-U-SLR-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401601
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: ENV-SA1E-722-U-SLR-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2200K, 1050mA 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: 3888 lumens
Efficiency: N/A
Efficacy: 68.0 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): 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

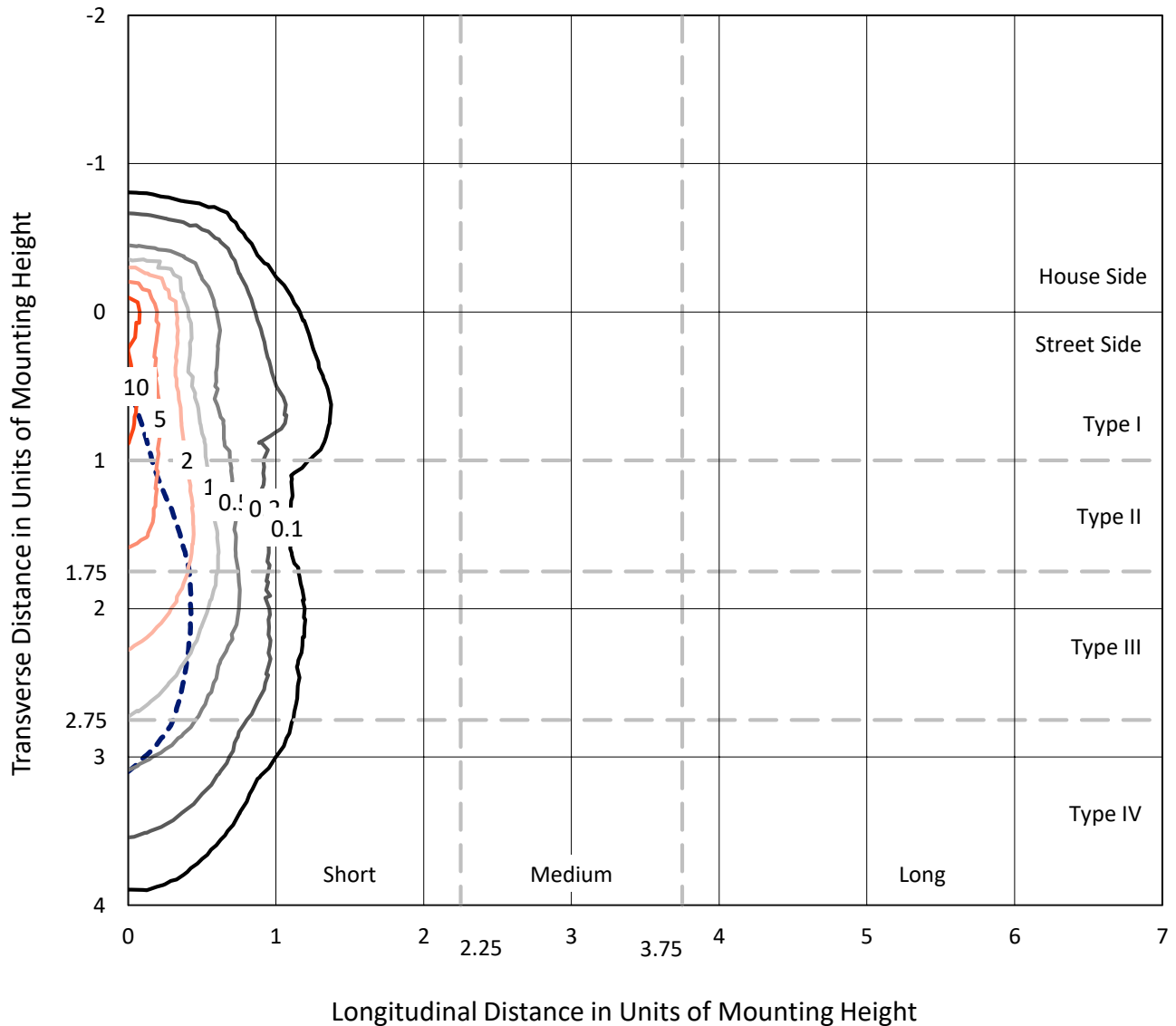


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

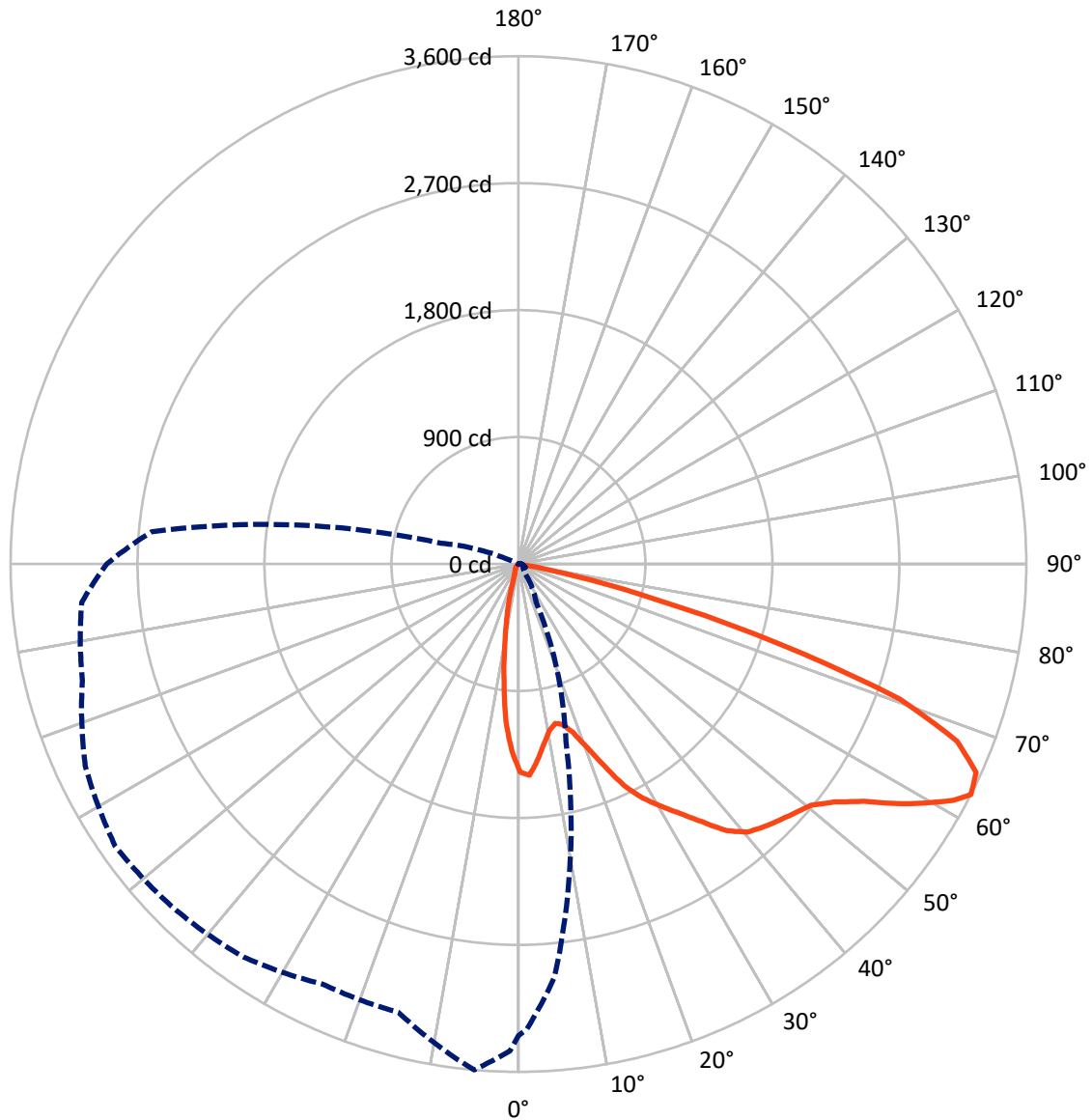


Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Short - Semi-Cutoff

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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 | 546.9 | 0.0 | 546.9 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 3341.1 | 0.0 | 3341.1 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 3888.0 | 0.0 | 3888.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.6 | 2.8 |
| 10°-20° | 210.2 | 5.4 |
| 20°-30° | 292.5 | 7.5 |
| 30°-40° | 423.0 | 10.9 |
| 40°-50° | 606.6 | 15.6 |
| 50°-60° | 880.0 | 22.6 |
| 60°-70° | 952.1 | 24.5 |
| 70°-80° | 384.5 | 9.9 |
| 80°-90° | 28.5 | 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° | 3888.0 | 100.0 |
| 0°-180° | 3888.0 | 100.0 |



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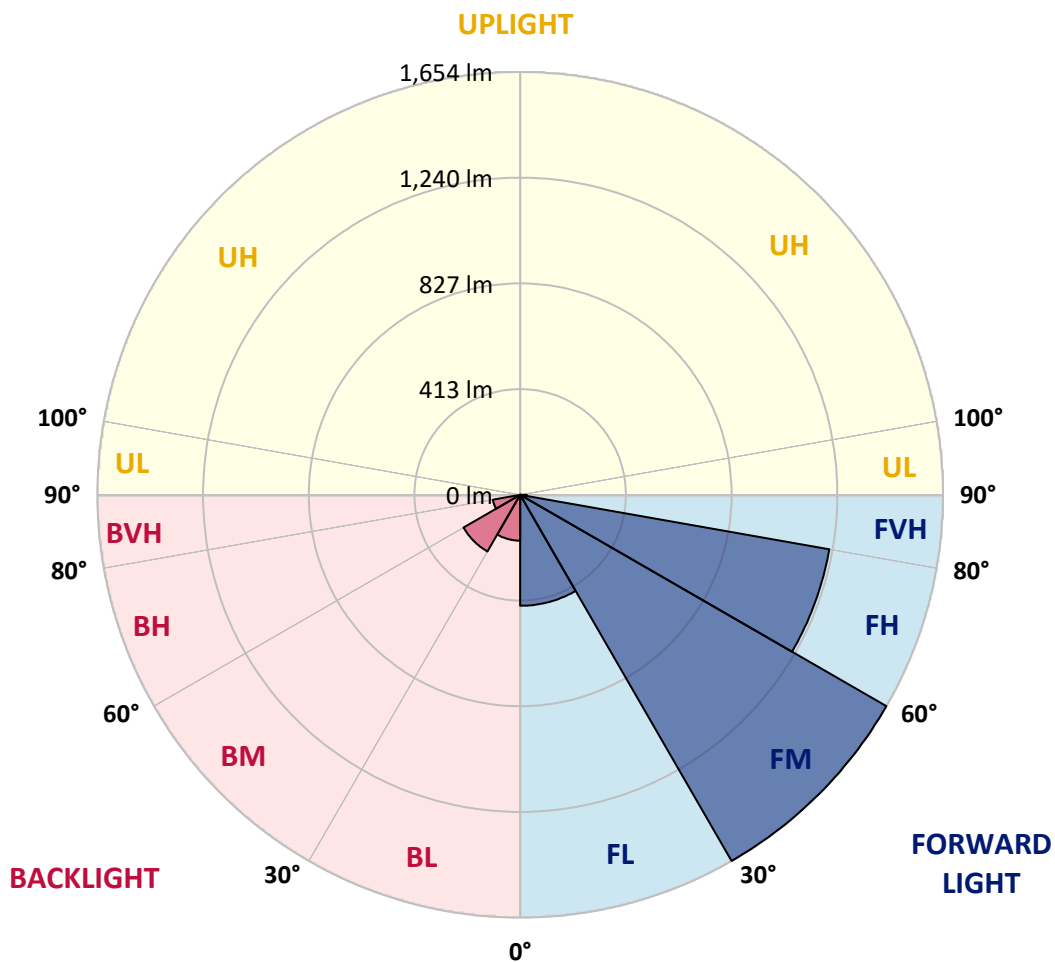
CATALOG NUMBER: ENV-SA1E-722-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 434.0 | 11.2 | | | |
| FM | (30°-60°) | 1653.7 | 42.5 | | | |
| FH | (60°-80°) | 1227.8 | 31.6 | | | G1/1800 |
| FVH | (80°-90°) | 25.6 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 179.3 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 255.9 | 6.6 | B1/1000 | | |
| BH | (60°-80°) | 108.8 | 2.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 2.9 | 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° | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 |
| 2.5° | 1481.0 | 1474.8 | 1461.0 | 1430.9 | 1387.9 | 1360.2 | 1342.5 | 1319.4 | 1295.5 | 1287.9 | 1272.5 |
| 5° | 1351.7 | 1341.7 | 1322.5 | 1247.1 | 1179.4 | 1111.7 | 1063.2 | 1017.1 | 1001.7 | 970.9 | 989.4 |
| 7.5° | 1227.1 | 1222.5 | 1177.8 | 1080.1 | 972.4 | 885.5 | 830.1 | 762.4 | 742.4 | 710.9 | 685.5 |
| 10° | 1129.4 | 1125.5 | 1071.7 | 944.0 | 827.8 | 755.5 | 711.6 | 667.8 | 623.9 | 579.3 | 543.9 |
| 12.5° | 1080.1 | 1071.7 | 1009.4 | 871.6 | 763.9 | 703.9 | 657.8 | 599.3 | 552.4 | 492.4 | 449.3 |
| 15° | 1087.8 | 1080.1 | 1008.6 | 860.1 | 733.2 | 650.1 | 581.6 | 512.4 | 446.2 | 387.0 | 344.7 |
| 17.5° | 1149.4 | 1146.3 | 1059.4 | 870.1 | 696.2 | 586.2 | 494.7 | 401.6 | 323.1 | 259.3 | 223.1 |
| 20° | 1269.4 | 1260.2 | 1134.0 | 891.6 | 657.8 | 512.4 | 387.0 | 272.3 | 206.9 | 163.1 | 147.7 |
| 22.5° | 1417.9 | 1397.1 | 1251.7 | 923.2 | 620.8 | 433.1 | 280.0 | 183.1 | 147.7 | 130.8 | 120.0 |
| 25° | 1592.5 | 1593.3 | 1397.9 | 965.5 | 583.9 | 359.3 | 196.2 | 145.4 | 124.6 | 112.3 | 103.1 |
| 27.5° | 1734.1 | 1723.3 | 1529.4 | 1007.8 | 543.9 | 294.7 | 164.6 | 126.9 | 109.2 | 96.2 | 90.8 |
| 30° | 1838.7 | 1822.5 | 1616.4 | 1037.1 | 492.4 | 249.3 | 147.7 | 120.8 | 103.1 | 88.5 | 81.5 |
| 32.5° | 1946.4 | 1926.4 | 1694.8 | 1053.2 | 461.6 | 227.7 | 130.8 | 105.4 | 92.3 | 86.2 | 76.9 |
| 35° | 2072.6 | 2054.9 | 1781.8 | 1051.7 | 445.4 | 215.4 | 118.5 | 95.4 | 78.5 | 68.5 | 62.3 |
| 37.5° | 2213.4 | 2177.2 | 1871.8 | 1044.7 | 433.9 | 209.3 | 107.7 | 88.5 | 73.1 | 62.3 | 54.6 |
| 40° | 2334.1 | 2298.0 | 1954.9 | 1035.5 | 426.2 | 203.1 | 101.6 | 83.9 | 69.2 | 57.7 | 50.0 |
| 42.5° | 2428.8 | 2394.1 | 2032.6 | 1024.0 | 422.4 | 190.0 | 104.6 | 80.8 | 66.2 | 54.6 | 46.2 |
| 45° | 2510.3 | 2474.9 | 2124.9 | 1022.4 | 420.8 | 180.8 | 103.1 | 80.0 | 64.6 | 50.8 | 43.1 |
| 47.5° | 2604.9 | 2586.5 | 2246.4 | 1047.8 | 414.7 | 173.9 | 94.6 | 86.2 | 63.9 | 49.2 | 40.8 |
| 50° | 2745.0 | 2728.8 | 2405.7 | 1123.2 | 405.4 | 166.9 | 86.2 | 94.6 | 63.9 | 47.7 | 38.5 |
| 52.5° | 2941.1 | 2922.7 | 2656.5 | 1221.7 | 397.0 | 159.3 | 77.7 | 91.5 | 64.6 | 45.4 | 36.9 |
| 55° | 3144.2 | 3141.2 | 2893.4 | 1326.3 | 389.3 | 142.3 | 68.5 | 82.3 | 63.1 | 42.3 | 34.6 |
| 57.5° | 3303.5 | 3301.2 | 3071.2 | 1397.1 | 374.7 | 114.6 | 62.3 | 68.5 | 58.5 | 38.5 | 31.5 |
| 60° | 3368.9 | 3349.6 | 3090.4 | 1397.1 | 340.8 | 94.6 | 56.9 | 53.9 | 59.2 | 34.6 | 27.7 |
| 61° | 3368.9 | 3344.3 | 3055.8 | 1376.3 | 323.9 | 90.0 | 53.9 | 50.0 | 60.8 | 33.1 | 26.2 |
| 62.5° | 3342.7 | 3302.0 | 2937.3 | 1301.7 | 297.0 | 90.0 | 49.2 | 44.6 | 55.4 | 31.5 | 23.8 |
| 65° | 3226.6 | 3159.6 | 2659.6 | 1131.7 | 269.3 | 92.3 | 42.3 | 37.7 | 40.0 | 26.9 | 20.8 |
| 67.5° | 2939.6 | 2864.2 | 2299.5 | 895.5 | 247.0 | 97.7 | 35.4 | 33.1 | 30.8 | 23.8 | 18.5 |
| 70° | 2421.8 | 2358.0 | 1876.4 | 670.9 | 229.3 | 99.2 | 30.8 | 27.7 | 26.2 | 20.8 | 16.2 |
| 72.5° | 1547.9 | 1442.5 | 1171.7 | 454.7 | 183.9 | 86.2 | 25.4 | 26.2 | 23.8 | 16.9 | 13.1 |
| 75° | 747.8 | 777.0 | 681.6 | 229.3 | 123.9 | 56.2 | 20.0 | 21.5 | 19.2 | 15.4 | 11.5 |
| 77.5° | 334.7 | 328.5 | 325.4 | 58.5 | 31.5 | 19.2 | 12.3 | 14.6 | 15.4 | 13.8 | 10.0 |
| 80° | 34.6 | 46.9 | 27.7 | 17.7 | 11.5 | 8.5 | 6.9 | 7.7 | 9.2 | 10.0 | 5.4 |
| 82.5° | 1.5 | 0.8 | 0.8 | 2.3 | 2.3 | 1.5 | 0.0 | 0.0 | 1.5 | 1.5 | 0.8 |
| 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: ENV-SA1E-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 |
| 2.5° | 1258.6 | 1279.4 | 1270.2 | 1267.9 | 1280.2 | 1274.0 | 1292.5 | 1293.2 | 1307.1 | 1325.6 | 1337.1 |
| 5° | 989.4 | 973.2 | 1005.5 | 1027.1 | 1054.0 | 1045.5 | 1077.8 | 1074.0 | 1091.7 | 1120.9 | 1109.4 |
| 7.5° | 687.0 | 689.3 | 706.2 | 725.5 | 797.8 | 812.4 | 823.2 | 831.6 | 830.9 | 837.8 | 850.1 |
| 10° | 525.5 | 512.4 | 500.8 | 527.8 | 556.2 | 587.8 | 592.4 | 603.9 | 572.4 | 585.5 | 591.6 |
| 12.5° | 430.1 | 414.7 | 389.3 | 375.4 | 382.4 | 400.8 | 408.5 | 415.4 | 397.0 | 397.7 | 411.6 |
| 15° | 326.2 | 305.4 | 295.4 | 277.0 | 270.0 | 268.5 | 272.3 | 262.3 | 260.0 | 251.6 | 257.0 |
| 17.5° | 212.3 | 206.2 | 200.8 | 196.9 | 191.6 | 190.0 | 176.2 | 152.3 | 138.5 | 135.4 | 135.4 |
| 20° | 141.6 | 136.9 | 136.9 | 144.6 | 142.3 | 136.2 | 117.7 | 97.7 | 87.7 | 84.6 | 86.2 |
| 22.5° | 116.2 | 113.1 | 108.5 | 108.5 | 111.6 | 106.9 | 90.0 | 75.4 | 68.5 | 68.5 | 68.5 |
| 25° | 100.8 | 99.2 | 94.6 | 90.0 | 91.5 | 87.7 | 73.1 | 63.9 | 59.2 | 58.5 | 59.2 |
| 27.5° | 88.5 | 87.7 | 82.3 | 77.7 | 77.7 | 74.6 | 63.1 | 54.6 | 51.5 | 50.0 | 50.8 |
| 30° | 80.0 | 78.5 | 72.3 | 68.5 | 67.7 | 64.6 | 53.9 | 47.7 | 44.6 | 43.9 | 43.9 |
| 32.5° | 73.9 | 70.8 | 65.4 | 61.5 | 59.2 | 54.6 | 46.9 | 40.8 | 37.7 | 36.9 | 36.9 |
| 35° | 59.2 | 59.2 | 56.9 | 54.6 | 51.5 | 44.6 | 39.2 | 33.9 | 30.8 | 30.0 | 30.0 |
| 37.5° | 51.5 | 48.5 | 44.6 | 45.4 | 43.9 | 37.7 | 32.3 | 26.9 | 24.6 | 23.8 | 23.8 |
| 40° | 46.9 | 43.1 | 37.7 | 35.4 | 36.2 | 33.1 | 26.9 | 20.8 | 17.7 | 18.5 | 17.7 |
| 42.5° | 42.3 | 39.2 | 33.1 | 27.7 | 26.9 | 27.7 | 20.8 | 14.6 | 12.3 | 12.3 | 12.3 |
| 45° | 39.2 | 36.2 | 29.2 | 23.1 | 19.2 | 21.5 | 16.2 | 10.0 | 7.7 | 7.7 | 7.7 |
| 47.5° | 36.9 | 33.9 | 26.2 | 19.2 | 13.8 | 14.6 | 11.5 | 6.2 | 4.6 | 3.1 | 3.8 |
| 50° | 35.4 | 31.5 | 23.8 | 15.4 | 10.0 | 8.5 | 7.7 | 3.1 | 0.8 | 0.8 | 0.0 |
| 52.5° | 33.1 | 30.0 | 21.5 | 13.1 | 7.7 | 5.4 | 3.8 | 0.8 | 0.0 | 0.0 | 0.0 |
| 55° | 31.5 | 27.7 | 19.2 | 11.5 | 6.2 | 3.1 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 28.5 | 25.4 | 16.9 | 9.2 | 4.6 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 25.4 | 23.1 | 14.6 | 6.9 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 61° | 23.8 | 21.5 | 13.8 | 6.2 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 22.3 | 20.0 | 12.3 | 4.6 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 19.2 | 16.9 | 10.8 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 16.9 | 15.4 | 9.2 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 14.6 | 13.1 | 6.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 12.3 | 11.5 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 10.8 | 9.2 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 8.5 | 7.7 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 4.6 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.8 | 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: ENV-SA1E-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 | 1474.8 |
| 2.5° | 1347.9 | 1374.8 | 1400.2 | 1432.5 | 1450.2 | 1498.6 | 1533.3 | 1562.5 | 1585.6 | 1590.2 | 1608.7 |
| 5° | 1140.1 | 1177.8 | 1202.5 | 1270.2 | 1307.9 | 1388.6 | 1451.0 | 1524.8 | 1591.0 | 1627.1 | 1660.2 |
| 7.5° | 858.6 | 877.0 | 919.3 | 987.0 | 1076.3 | 1146.3 | 1251.7 | 1344.8 | 1464.0 | 1529.4 | 1591.0 |
| 10° | 606.2 | 623.2 | 685.5 | 756.2 | 837.8 | 955.5 | 1083.2 | 1205.5 | 1326.3 | 1410.2 | 1482.5 |
| 12.5° | 426.2 | 481.6 | 543.1 | 633.2 | 713.2 | 799.3 | 935.5 | 1078.6 | 1229.4 | 1309.4 | 1387.9 |
| 15° | 280.0 | 329.3 | 414.7 | 527.8 | 627.8 | 711.6 | 838.6 | 1006.3 | 1197.8 | 1287.1 | 1361.7 |
| 17.5° | 138.5 | 174.6 | 250.0 | 371.6 | 504.7 | 637.0 | 790.1 | 993.2 | 1238.6 | 1339.4 | 1409.4 |
| 20° | 86.9 | 97.7 | 125.4 | 210.0 | 363.1 | 558.5 | 753.9 | 1019.4 | 1349.4 | 1461.0 | 1506.3 |
| 22.5° | 70.0 | 73.1 | 83.9 | 111.6 | 221.6 | 461.6 | 722.4 | 1054.7 | 1471.0 | 1607.1 | 1654.1 |
| 25° | 60.0 | 62.3 | 68.5 | 82.3 | 128.5 | 346.2 | 683.9 | 1117.1 | 1612.5 | 1777.1 | 1788.7 |
| 27.5° | 51.5 | 53.9 | 59.2 | 70.0 | 91.5 | 233.1 | 628.5 | 1190.1 | 1781.8 | 1926.4 | 1918.7 |
| 30° | 43.9 | 46.9 | 52.3 | 60.0 | 72.3 | 157.7 | 525.5 | 1264.0 | 1906.4 | 2022.6 | 2010.3 |
| 32.5° | 37.7 | 40.0 | 44.6 | 51.5 | 60.0 | 108.5 | 394.7 | 1312.5 | 2010.3 | 2113.3 | 2086.4 |
| 35° | 30.8 | 33.1 | 36.9 | 43.1 | 48.5 | 76.9 | 298.5 | 1314.0 | 2117.2 | 2225.7 | 2158.0 |
| 37.5° | 24.6 | 26.2 | 30.0 | 35.4 | 40.0 | 60.0 | 219.3 | 1288.6 | 2249.5 | 2371.8 | 2239.5 |
| 40° | 18.5 | 20.8 | 24.6 | 29.2 | 33.9 | 50.8 | 163.9 | 1227.1 | 2378.8 | 2518.0 | 2338.0 |
| 42.5° | 12.3 | 15.4 | 19.2 | 23.8 | 32.3 | 40.8 | 115.4 | 1124.8 | 2483.4 | 2648.0 | 2434.2 |
| 45° | 7.7 | 10.0 | 14.6 | 20.0 | 33.1 | 32.3 | 76.9 | 1002.4 | 2558.0 | 2747.3 | 2499.5 |
| 47.5° | 3.8 | 6.2 | 10.8 | 19.2 | 29.2 | 23.8 | 47.7 | 885.5 | 2625.7 | 2805.0 | 2529.5 |
| 50° | 0.8 | 2.3 | 7.7 | 23.8 | 24.6 | 17.7 | 31.5 | 812.4 | 2661.1 | 2790.3 | 2526.5 |
| 52.5° | 0.0 | 0.0 | 5.4 | 23.1 | 17.7 | 13.8 | 24.6 | 801.6 | 2716.5 | 2809.6 | 2579.6 |
| 55° | 0.0 | 0.0 | 2.3 | 10.0 | 10.0 | 11.5 | 21.5 | 787.0 | 2815.0 | 2924.2 | 2739.6 |
| 57.5° | 0.0 | 0.0 | 0.0 | 4.6 | 6.2 | 9.2 | 20.0 | 748.6 | 2918.8 | 3045.8 | 2934.2 |
| 60° | 0.0 | 0.0 | 0.0 | 2.3 | 3.8 | 7.7 | 17.7 | 660.9 | 2823.4 | 3046.5 | 3095.8 |
| 61° | 0.0 | 0.0 | 0.0 | 2.3 | 3.1 | 6.9 | 16.2 | 630.1 | 2738.0 | 2997.3 | 3115.8 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.8 | 2.3 | 5.4 | 13.8 | 569.3 | 2610.3 | 2918.1 | 3106.5 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 3.1 | 10.8 | 460.1 | 2397.2 | 2718.8 | 3000.4 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 6.9 | 323.9 | 2091.0 | 2493.4 | 2773.4 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 187.7 | 1684.8 | 2111.0 | 2375.7 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 85.4 | 1093.2 | 1630.2 | 1874.1 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.2 | 673.2 | 1177.8 | 1400.2 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.2 | 456.2 | 783.9 | 942.4 |
| 80° | 0.0 | 1.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 280.8 | 489.3 | 531.6 |
| 82.5° | 0.0 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 145.4 | 345.4 | 352.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60.8 | 73.1 |
| 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° | 1765.6 | 1443.3 | 1277.9 | 1288.6 | 1384.0 | 1581.7 | 1824.8 | 1993.3 | 1905.6 | 1838.7 |
| 32.5° | 1827.9 | 1494.0 | 1300.2 | 1310.9 | 1425.6 | 1610.2 | 1875.6 | 2108.7 | 2012.6 | 1946.4 |
| 35° | 1888.7 | 1544.0 | 1341.7 | 1360.9 | 1492.5 | 1661.7 | 1927.2 | 2244.1 | 2164.1 | 2072.6 |
| 37.5° | 1941.0 | 1599.4 | 1413.3 | 1454.0 | 1583.3 | 1741.0 | 1997.2 | 2398.0 | 2315.7 | 2213.4 |
| 40° | 1984.9 | 1664.8 | 1561.0 | 1606.4 | 1721.8 | 1824.8 | 2074.9 | 2498.8 | 2444.2 | 2334.1 |
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| 61° | 3078.1 | 3340.4 | 3545.1 | 3555.8 | 3507.4 | 3260.4 | 3092.7 | 3508.1 | 3438.9 | 3368.9 |
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| 75° | 1562.5 | 998.6 | 861.6 | 855.5 | 825.5 | 1040.1 | 1741.8 | 1014.0 | 837.0 | 747.8 |
| 77.5° | 1030.9 | 719.3 | 717.0 | 662.4 | 639.3 | 563.9 | 781.6 | 406.2 | 331.6 | 334.7 |
| 80° | 593.9 | 440.8 | 517.0 | 410.1 | 410.8 | 330.8 | 316.2 | 59.2 | 47.7 | 34.6 |
| 82.5° | 340.8 | 211.6 | 160.0 | 63.1 | 132.3 | 132.3 | 25.4 | 0.8 | 0.8 | 1.5 |
| 85° | 33.1 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 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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