

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: P401421

Luminaire Tested: **ENV-SA1D-722-U-SLR-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401421
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-SA1D-722-U-SLR-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2200K, 800mA 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: 3121 lumens
Efficiency: N/A
Efficacy: 72.4 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): 43.1
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

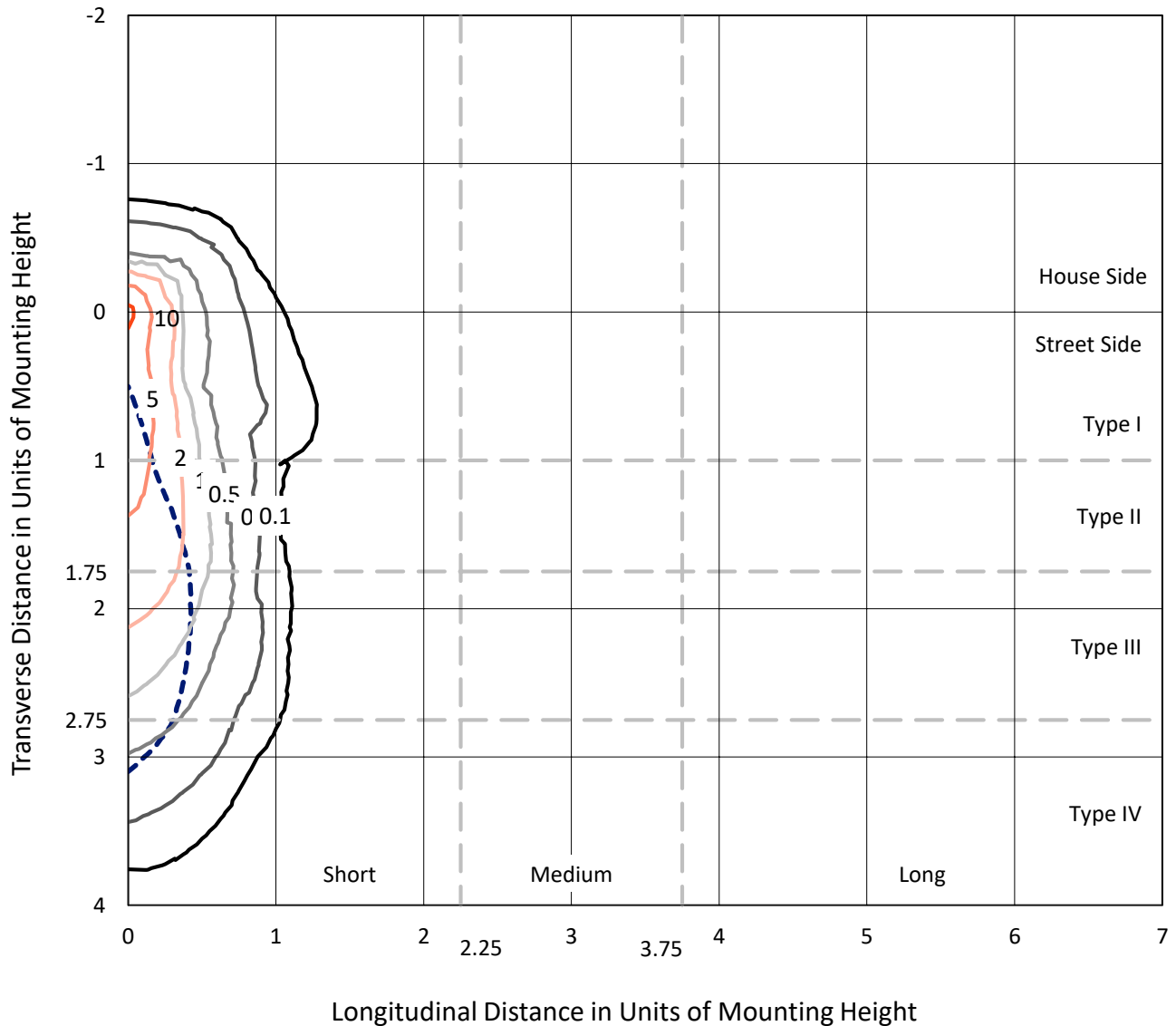


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

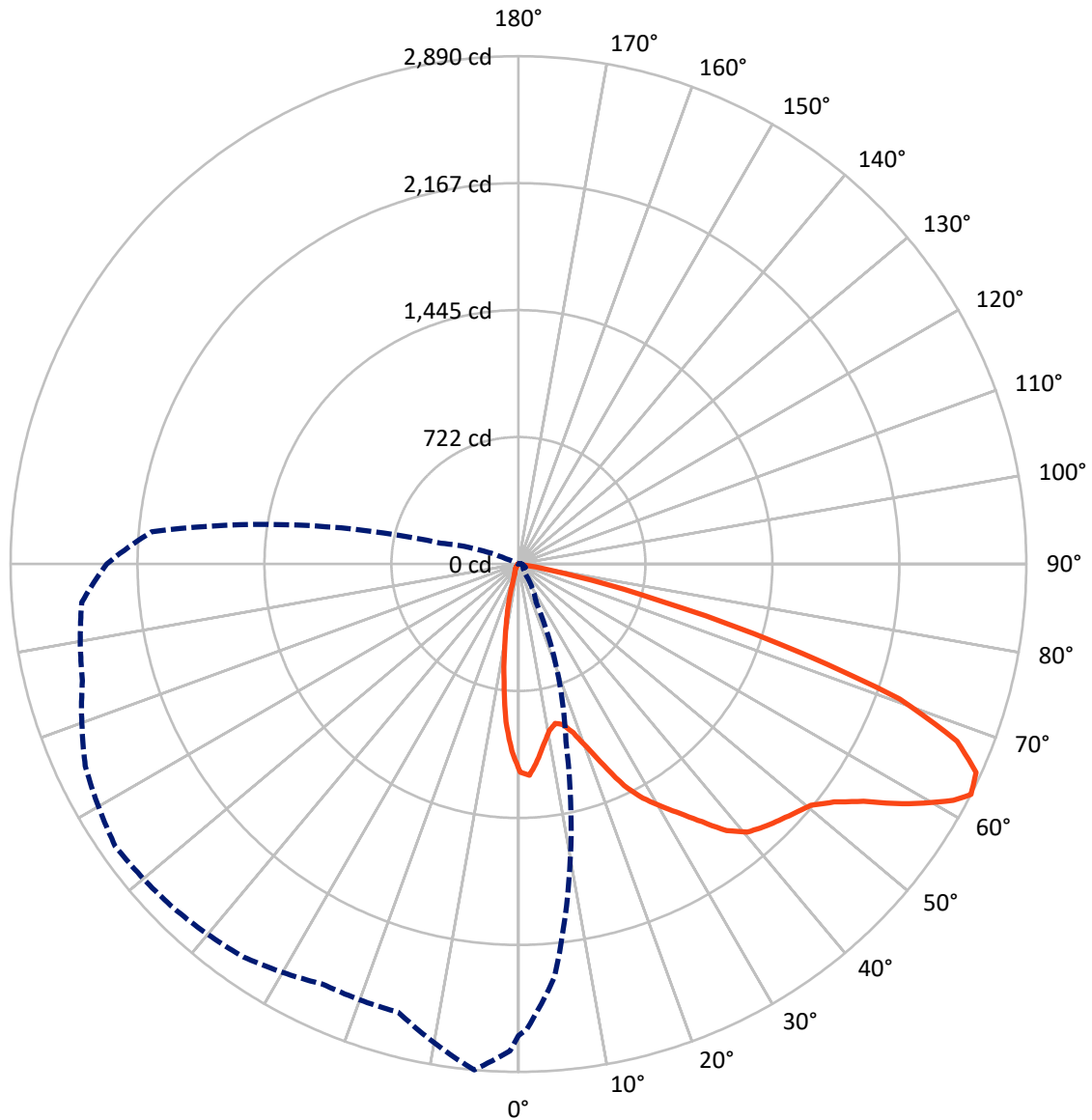


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - Semi-Cutoff

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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 | 439.0 | 0.0 | 439.0 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 2682.0 | 0.0 | 2682.0 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 3121.0 | 0.0 | 3121.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.8 | 2.8 |
| 10°-20° | 168.7 | 5.4 |
| 20°-30° | 234.8 | 7.5 |
| 30°-40° | 339.6 | 10.9 |
| 40°-50° | 486.9 | 15.6 |
| 50°-60° | 706.4 | 22.6 |
| 60°-70° | 764.3 | 24.5 |
| 70°-80° | 308.7 | 9.9 |
| 80°-90° | 22.9 | 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° | 3121.0 | 100.0 |
| 0°-180° | 3121.0 | 100.0 |



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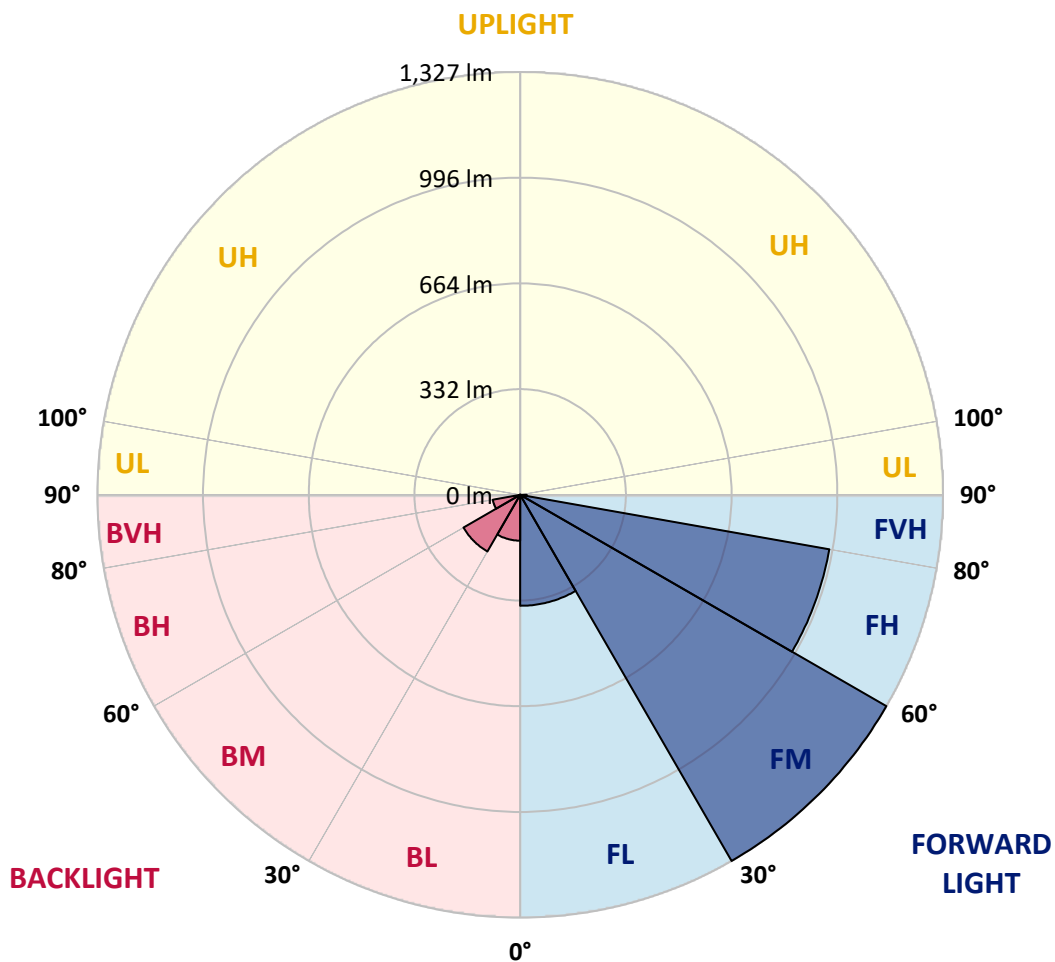
CATALOG NUMBER: ENV-SA1D-722-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 348.4 | 11.2 | | | |
| FM | (30°-60°) | 1327.5 | 42.5 | | | |
| FH | (60°-80°) | 985.6 | 31.6 | | | G1/1800 |
| FVH | (80°-90°) | 20.5 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 143.9 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 205.4 | 6.6 | B0/220 | | |
| BH | (60°-80°) | 87.3 | 2.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 2.3 | 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° | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 |
| 2.5° | 1188.8 | 1183.9 | 1172.7 | 1148.7 | 1114.1 | 1091.8 | 1077.6 | 1059.1 | 1040.0 | 1033.8 | 1021.4 |
| 5° | 1085.1 | 1077.0 | 1061.6 | 1001.1 | 946.7 | 892.4 | 853.5 | 816.4 | 804.1 | 779.4 | 794.2 |
| 7.5° | 985.0 | 981.3 | 945.5 | 867.1 | 780.6 | 710.8 | 666.3 | 612.0 | 595.9 | 570.6 | 550.2 |
| 10° | 906.6 | 903.5 | 860.3 | 757.7 | 664.5 | 606.4 | 571.2 | 536.0 | 500.8 | 465.0 | 436.6 |
| 12.5° | 867.1 | 860.3 | 810.2 | 699.7 | 613.2 | 565.1 | 528.0 | 481.1 | 443.4 | 395.2 | 360.7 |
| 15° | 873.2 | 867.1 | 809.6 | 690.4 | 588.5 | 521.8 | 466.9 | 411.3 | 358.2 | 310.6 | 276.7 |
| 17.5° | 922.6 | 920.2 | 850.4 | 698.5 | 558.9 | 470.6 | 397.1 | 322.4 | 259.4 | 208.1 | 179.1 |
| 20° | 1019.0 | 1011.6 | 910.3 | 715.8 | 528.0 | 411.3 | 310.6 | 218.6 | 166.1 | 130.9 | 118.6 |
| 22.5° | 1138.2 | 1121.5 | 1004.8 | 741.1 | 498.4 | 347.7 | 224.8 | 147.0 | 118.6 | 105.0 | 96.3 |
| 25° | 1278.3 | 1279.0 | 1122.1 | 775.0 | 468.7 | 288.4 | 157.5 | 116.7 | 100.0 | 90.2 | 82.8 |
| 27.5° | 1392.0 | 1383.3 | 1227.7 | 809.0 | 436.6 | 236.5 | 132.2 | 101.9 | 87.7 | 77.2 | 72.9 |
| 30° | 1476.0 | 1463.0 | 1297.5 | 832.5 | 395.2 | 200.1 | 118.6 | 97.0 | 82.8 | 71.0 | 65.5 |
| 32.5° | 1562.4 | 1546.4 | 1360.5 | 845.4 | 370.5 | 182.8 | 105.0 | 84.6 | 74.1 | 69.2 | 61.8 |
| 35° | 1663.7 | 1649.5 | 1430.3 | 844.2 | 357.6 | 172.9 | 95.1 | 76.6 | 63.0 | 55.0 | 50.0 |
| 37.5° | 1776.7 | 1747.7 | 1502.5 | 838.6 | 348.3 | 168.0 | 86.5 | 71.0 | 58.7 | 50.0 | 43.8 |
| 40° | 1873.7 | 1844.6 | 1569.2 | 831.2 | 342.1 | 163.0 | 81.5 | 67.3 | 55.6 | 46.3 | 40.1 |
| 42.5° | 1949.6 | 1921.8 | 1631.6 | 822.0 | 339.0 | 152.5 | 84.0 | 64.8 | 53.1 | 43.8 | 37.1 |
| 45° | 2015.1 | 1986.7 | 1705.7 | 820.7 | 337.8 | 145.1 | 82.8 | 64.2 | 51.9 | 40.8 | 34.6 |
| 47.5° | 2091.1 | 2076.2 | 1803.3 | 841.1 | 332.9 | 139.6 | 76.0 | 69.2 | 51.3 | 39.5 | 32.7 |
| 50° | 2203.5 | 2190.5 | 1931.1 | 901.6 | 325.5 | 134.0 | 69.2 | 76.0 | 51.3 | 38.3 | 30.9 |
| 52.5° | 2360.9 | 2346.1 | 2132.4 | 980.7 | 318.7 | 127.8 | 62.4 | 73.5 | 51.9 | 36.4 | 29.6 |
| 55° | 2524.0 | 2521.5 | 2322.6 | 1064.7 | 312.5 | 114.2 | 55.0 | 66.1 | 50.6 | 34.0 | 27.8 |
| 57.5° | 2651.8 | 2649.9 | 2465.3 | 1121.5 | 300.8 | 92.0 | 50.0 | 55.0 | 46.9 | 30.9 | 25.3 |
| 60° | 2704.3 | 2688.9 | 2480.7 | 1121.5 | 273.6 | 76.0 | 45.7 | 43.2 | 47.6 | 27.8 | 22.2 |
| 61° | 2704.3 | 2684.5 | 2452.9 | 1104.8 | 260.0 | 72.3 | 43.2 | 40.1 | 48.8 | 26.6 | 21.0 |
| 62.5° | 2683.3 | 2650.6 | 2357.8 | 1044.9 | 238.4 | 72.3 | 39.5 | 35.8 | 44.5 | 25.3 | 19.1 |
| 65° | 2590.0 | 2536.3 | 2134.9 | 908.4 | 216.1 | 74.1 | 34.0 | 30.3 | 32.1 | 21.6 | 16.7 |
| 67.5° | 2359.7 | 2299.2 | 1845.9 | 718.8 | 198.2 | 78.4 | 28.4 | 26.6 | 24.7 | 19.1 | 14.8 |
| 70° | 1944.1 | 1892.8 | 1506.2 | 538.5 | 184.0 | 79.7 | 24.7 | 22.2 | 21.0 | 16.7 | 13.0 |
| 72.5° | 1242.5 | 1157.9 | 940.5 | 365.0 | 147.6 | 69.2 | 20.4 | 21.0 | 19.1 | 13.6 | 10.5 |
| 75° | 600.3 | 623.7 | 547.2 | 184.0 | 99.4 | 45.1 | 16.1 | 17.3 | 15.4 | 12.4 | 9.3 |
| 77.5° | 268.6 | 263.7 | 261.2 | 46.9 | 25.3 | 15.4 | 9.9 | 11.7 | 12.4 | 11.1 | 8.0 |
| 80° | 27.8 | 37.7 | 22.2 | 14.2 | 9.3 | 6.8 | 5.6 | 6.2 | 7.4 | 8.0 | 4.3 |
| 82.5° | 1.2 | 0.6 | 0.6 | 1.9 | 1.9 | 1.2 | 0.0 | 0.0 | 1.2 | 1.2 | 0.6 |
| 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-SA1D-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 |
| 2.5° | 1010.3 | 1027.0 | 1019.6 | 1017.7 | 1027.6 | 1022.7 | 1037.5 | 1038.1 | 1049.2 | 1064.1 | 1073.3 |
| 5° | 794.2 | 781.2 | 807.1 | 824.4 | 846.1 | 839.3 | 865.2 | 862.1 | 876.3 | 899.8 | 890.5 |
| 7.5° | 551.5 | 553.3 | 566.9 | 582.4 | 640.4 | 652.1 | 660.8 | 667.6 | 667.0 | 672.5 | 682.4 |
| 10° | 421.8 | 411.3 | 402.0 | 423.6 | 446.5 | 471.8 | 475.5 | 484.8 | 459.5 | 470.0 | 474.9 |
| 12.5° | 345.2 | 332.9 | 312.5 | 301.4 | 306.9 | 321.7 | 327.9 | 333.5 | 318.7 | 319.3 | 330.4 |
| 15° | 261.8 | 245.2 | 237.1 | 222.3 | 216.8 | 215.5 | 218.6 | 210.6 | 208.7 | 201.9 | 206.3 |
| 17.5° | 170.4 | 165.5 | 161.2 | 158.1 | 153.8 | 152.5 | 141.4 | 122.3 | 111.2 | 108.7 | 108.7 |
| 20° | 113.6 | 109.9 | 109.9 | 116.1 | 114.2 | 109.3 | 94.5 | 78.4 | 70.4 | 67.9 | 69.2 |
| 22.5° | 93.3 | 90.8 | 87.1 | 87.1 | 89.5 | 85.8 | 72.3 | 60.5 | 55.0 | 55.0 | 55.0 |
| 25° | 80.9 | 79.7 | 76.0 | 72.3 | 73.5 | 70.4 | 58.7 | 51.3 | 47.6 | 46.9 | 47.6 |
| 27.5° | 71.0 | 70.4 | 66.1 | 62.4 | 62.4 | 59.9 | 50.6 | 43.8 | 41.4 | 40.1 | 40.8 |
| 30° | 64.2 | 63.0 | 58.1 | 55.0 | 54.3 | 51.9 | 43.2 | 38.3 | 35.8 | 35.2 | 35.2 |
| 32.5° | 59.3 | 56.8 | 52.5 | 49.4 | 47.6 | 43.8 | 37.7 | 32.7 | 30.3 | 29.6 | 29.6 |
| 35° | 47.6 | 47.6 | 45.7 | 43.8 | 41.4 | 35.8 | 31.5 | 27.2 | 24.7 | 24.1 | 24.1 |
| 37.5° | 41.4 | 38.9 | 35.8 | 36.4 | 35.2 | 30.3 | 25.9 | 21.6 | 19.8 | 19.1 | 19.1 |
| 40° | 37.7 | 34.6 | 30.3 | 28.4 | 29.0 | 26.6 | 21.6 | 16.7 | 14.2 | 14.8 | 14.2 |
| 42.5° | 34.0 | 31.5 | 26.6 | 22.2 | 21.6 | 22.2 | 16.7 | 11.7 | 9.9 | 9.9 | 9.9 |
| 45° | 31.5 | 29.0 | 23.5 | 18.5 | 15.4 | 17.3 | 13.0 | 8.0 | 6.2 | 6.2 | 6.2 |
| 47.5° | 29.6 | 27.2 | 21.0 | 15.4 | 11.1 | 11.7 | 9.3 | 4.9 | 3.7 | 2.5 | 3.1 |
| 50° | 28.4 | 25.3 | 19.1 | 12.4 | 8.0 | 6.8 | 6.2 | 2.5 | 0.6 | 0.6 | 0.0 |
| 52.5° | 26.6 | 24.1 | 17.3 | 10.5 | 6.2 | 4.3 | 3.1 | 0.6 | 0.0 | 0.0 | 0.0 |
| 55° | 25.3 | 22.2 | 15.4 | 9.3 | 4.9 | 2.5 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 22.8 | 20.4 | 13.6 | 7.4 | 3.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 20.4 | 18.5 | 11.7 | 5.6 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 61° | 19.1 | 17.3 | 11.1 | 4.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 17.9 | 16.1 | 9.9 | 3.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 15.4 | 13.6 | 8.6 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 13.6 | 12.4 | 7.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 11.7 | 10.5 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 9.9 | 9.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 8.6 | 7.4 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 6.8 | 6.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 3.7 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.6 | 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-SA1D-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 | 1183.9 |
| 2.5° | 1082.0 | 1103.6 | 1124.0 | 1149.9 | 1164.1 | 1203.0 | 1230.8 | 1254.3 | 1272.8 | 1276.5 | 1291.3 |
| 5° | 915.2 | 945.5 | 965.2 | 1019.6 | 1049.9 | 1114.7 | 1164.7 | 1224.0 | 1277.1 | 1306.1 | 1332.7 |
| 7.5° | 689.2 | 704.0 | 738.0 | 792.3 | 864.0 | 920.2 | 1004.8 | 1079.5 | 1175.2 | 1227.7 | 1277.1 |
| 10° | 486.6 | 500.2 | 550.2 | 607.1 | 672.5 | 767.0 | 869.5 | 967.7 | 1064.7 | 1132.0 | 1190.0 |
| 12.5° | 342.1 | 386.6 | 436.0 | 508.3 | 572.5 | 641.6 | 751.0 | 865.8 | 986.9 | 1051.1 | 1114.1 |
| 15° | 224.8 | 264.3 | 332.9 | 423.6 | 503.9 | 571.2 | 673.1 | 807.8 | 961.5 | 1033.2 | 1093.1 |
| 17.5° | 111.2 | 140.2 | 200.7 | 298.3 | 405.1 | 511.3 | 634.2 | 797.3 | 994.3 | 1075.2 | 1131.4 |
| 20° | 69.8 | 78.4 | 100.7 | 168.6 | 291.5 | 448.3 | 605.2 | 818.3 | 1083.2 | 1172.7 | 1209.2 |
| 22.5° | 56.2 | 58.7 | 67.3 | 89.5 | 177.9 | 370.5 | 579.9 | 846.7 | 1180.8 | 1290.1 | 1327.8 |
| 25° | 48.2 | 50.0 | 55.0 | 66.1 | 103.1 | 277.9 | 549.0 | 896.7 | 1294.4 | 1426.6 | 1435.8 |
| 27.5° | 41.4 | 43.2 | 47.6 | 56.2 | 73.5 | 187.1 | 504.5 | 955.4 | 1430.3 | 1546.4 | 1540.2 |
| 30° | 35.2 | 37.7 | 42.0 | 48.2 | 58.1 | 126.6 | 421.8 | 1014.6 | 1530.3 | 1623.6 | 1613.7 |
| 32.5° | 30.3 | 32.1 | 35.8 | 41.4 | 48.2 | 87.1 | 316.8 | 1053.6 | 1613.7 | 1696.4 | 1674.8 |
| 35° | 24.7 | 26.6 | 29.6 | 34.6 | 38.9 | 61.8 | 239.6 | 1054.8 | 1699.5 | 1786.6 | 1732.3 |
| 37.5° | 19.8 | 21.0 | 24.1 | 28.4 | 32.1 | 48.2 | 176.0 | 1034.4 | 1805.7 | 1903.9 | 1797.7 |
| 40° | 14.8 | 16.7 | 19.8 | 23.5 | 27.2 | 40.8 | 131.5 | 985.0 | 1909.5 | 2021.3 | 1876.8 |
| 42.5° | 9.9 | 12.4 | 15.4 | 19.1 | 25.9 | 32.7 | 92.6 | 902.9 | 1993.5 | 2125.6 | 1954.0 |
| 45° | 6.2 | 8.0 | 11.7 | 16.1 | 26.6 | 25.9 | 61.8 | 804.7 | 2053.4 | 2205.3 | 2006.4 |
| 47.5° | 3.1 | 4.9 | 8.6 | 15.4 | 23.5 | 19.1 | 38.3 | 710.8 | 2107.7 | 2251.6 | 2030.5 |
| 50° | 0.6 | 1.9 | 6.2 | 19.1 | 19.8 | 14.2 | 25.3 | 652.1 | 2136.1 | 2239.9 | 2028.1 |
| 52.5° | 0.0 | 0.0 | 4.3 | 18.5 | 14.2 | 11.1 | 19.8 | 643.5 | 2180.6 | 2255.3 | 2070.7 |
| 55° | 0.0 | 0.0 | 1.9 | 8.0 | 8.0 | 9.3 | 17.3 | 631.8 | 2259.6 | 2347.3 | 2199.1 |
| 57.5° | 0.0 | 0.0 | 0.0 | 3.7 | 4.9 | 7.4 | 16.1 | 600.9 | 2343.0 | 2444.9 | 2355.4 |
| 60° | 0.0 | 0.0 | 0.0 | 1.9 | 3.1 | 6.2 | 14.2 | 530.5 | 2266.4 | 2445.5 | 2485.1 |
| 61° | 0.0 | 0.0 | 0.0 | 1.9 | 2.5 | 5.6 | 13.0 | 505.8 | 2197.9 | 2406.0 | 2501.1 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.6 | 1.9 | 4.3 | 11.1 | 457.0 | 2095.4 | 2342.4 | 2493.7 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 2.5 | 8.6 | 369.3 | 1924.3 | 2182.5 | 2408.5 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 5.6 | 260.0 | 1678.5 | 2001.5 | 2226.3 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 150.7 | 1352.5 | 1694.6 | 1907.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 68.5 | 877.6 | 1308.6 | 1504.4 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.0 | 540.4 | 945.5 | 1124.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.0 | 366.2 | 629.3 | 756.5 |
| 80° | 0.0 | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 225.4 | 392.8 | 426.7 |
| 82.5° | 0.0 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 116.7 | 277.3 | 282.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 48.8 | 58.7 |
| 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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| 2.5° | 1304.9 | 1308.6 | 1311.1 | 1306.8 | 1280.2 | 1265.4 | 1235.7 | 1203.0 | 1191.9 | 1188.8 |
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| 20° | 1162.9 | 1102.3 | 1067.1 | 1066.5 | 1112.2 | 1187.6 | 1195.0 | 1111.0 | 1054.8 | 1019.0 |
| 22.5° | 1213.5 | 1083.2 | 1028.9 | 1030.1 | 1086.3 | 1217.8 | 1287.0 | 1244.4 | 1182.6 | 1138.2 |
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| 27.5° | 1364.2 | 1119.0 | 1014.6 | 1022.7 | 1094.3 | 1258.6 | 1443.2 | 1508.1 | 1440.1 | 1392.0 |
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| 35° | 1516.1 | 1239.4 | 1077.0 | 1092.5 | 1198.1 | 1333.9 | 1547.0 | 1801.4 | 1737.2 | 1663.7 |
| 37.5° | 1558.1 | 1283.9 | 1134.5 | 1167.2 | 1270.9 | 1397.5 | 1603.2 | 1924.9 | 1858.9 | 1776.7 |
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| 42.5° | 1621.7 | 1429.0 | 1422.9 | 1474.1 | 1539.0 | 1542.0 | 1683.5 | 2044.7 | 2028.1 | 1949.6 |
| 45° | 1669.3 | 1595.2 | 1645.8 | 1729.8 | 1725.5 | 1634.7 | 1678.5 | 2080.6 | 2081.8 | 2015.1 |
| 47.5° | 1747.1 | 1803.3 | 1949.6 | 2006.4 | 1977.4 | 1761.3 | 1683.5 | 2115.8 | 2143.5 | 2091.1 |
| 50° | 1858.2 | 2039.2 | 2230.6 | 2306.0 | 2221.4 | 1888.5 | 1727.3 | 2157.8 | 2241.7 | 2203.5 |
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| 55° | 2089.2 | 2371.4 | 2674.6 | 2726.5 | 2633.9 | 2178.1 | 1967.5 | 2381.9 | 2517.8 | 2524.0 |
| 57.5° | 2228.2 | 2510.4 | 2795.1 | 2847.6 | 2777.2 | 2369.6 | 2163.3 | 2573.4 | 2653.7 | 2651.8 |
| 60° | 2382.5 | 2640.1 | 2849.4 | 2878.4 | 2838.3 | 2561.0 | 2373.9 | 2748.8 | 2746.9 | 2704.3 |
| 61° | 2470.9 | 2681.4 | 2845.7 | 2854.4 | 2815.5 | 2617.2 | 2482.6 | 2816.1 | 2760.5 | 2704.3 |
| 62.5° | 2568.4 | 2719.1 | 2800.0 | 2771.0 | 2729.0 | 2637.0 | 2640.1 | 2889.6 | 2769.8 | 2683.3 |
| 65° | 2667.2 | 2624.6 | 2589.4 | 2450.5 | 2410.9 | 2455.4 | 2772.8 | 2861.8 | 2713.6 | 2590.0 |
| 67.5° | 2498.0 | 2249.1 | 2173.2 | 2033.6 | 1877.4 | 2058.9 | 2646.9 | 2691.9 | 2524.0 | 2359.7 |
| 70° | 2041.6 | 1652.6 | 1562.4 | 1557.5 | 1445.1 | 1644.6 | 2334.4 | 2301.6 | 2094.8 | 1944.1 |
| 72.5° | 1600.1 | 1127.7 | 1004.8 | 1033.2 | 1010.9 | 1225.9 | 1909.5 | 1544.5 | 1343.2 | 1242.5 |
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| 77.5° | 827.5 | 577.4 | 575.6 | 531.7 | 513.2 | 452.7 | 627.4 | 326.1 | 266.2 | 268.6 |
| 80° | 476.8 | 353.9 | 415.0 | 329.2 | 329.8 | 265.6 | 253.8 | 47.6 | 38.3 | 27.8 |
| 82.5° | 273.6 | 169.8 | 128.5 | 50.6 | 106.2 | 106.2 | 20.4 | 0.6 | 0.6 | 1.2 |
| 85° | 26.6 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 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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