

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: P401322

Luminaire Tested: **ENV-SA1C-740-U-SLR-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401322
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-SA1C-740-U-SLR-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA 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: 3392 lumens
Efficiency: N/A
Efficacy: 101.9 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): 33.3
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

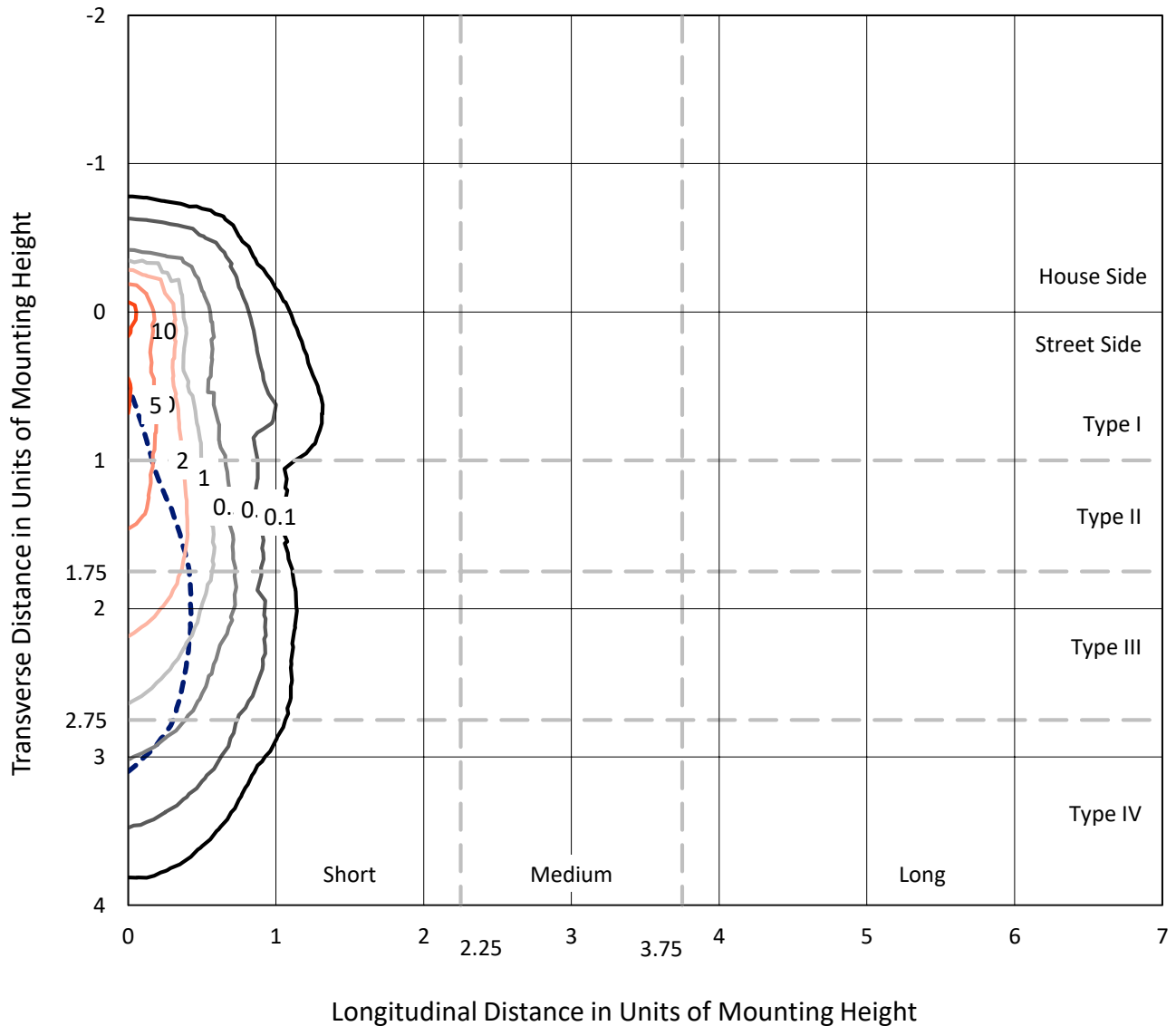


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

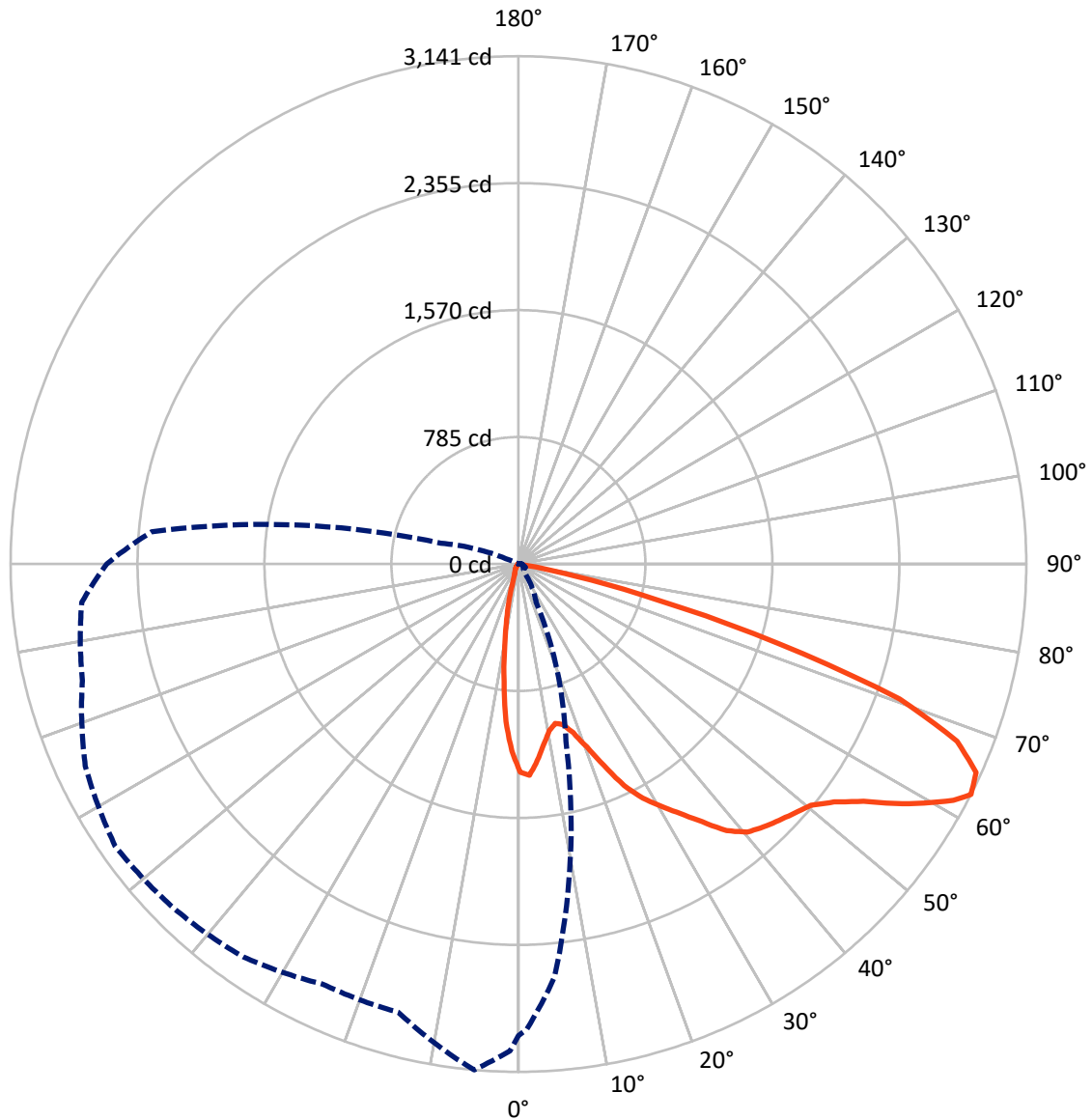


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - Semi-Cutoff

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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 | 477.1 | 0.0 | 477.1 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 2914.9 | 0.0 | 2914.9 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 3392.0 | 0.0 | 3392.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.5 | 2.8 |
| 10°-20° | 183.4 | 5.4 |
| 20°-30° | 255.2 | 7.5 |
| 30°-40° | 369.1 | 10.9 |
| 40°-50° | 529.2 | 15.6 |
| 50°-60° | 767.7 | 22.6 |
| 60°-70° | 830.6 | 24.5 |
| 70°-80° | 335.5 | 9.9 |
| 80°-90° | 24.8 | 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° | 3392.0 | 100.0 |
| 0°-180° | 3392.0 | 100.0 |

Coefficient of Utilization



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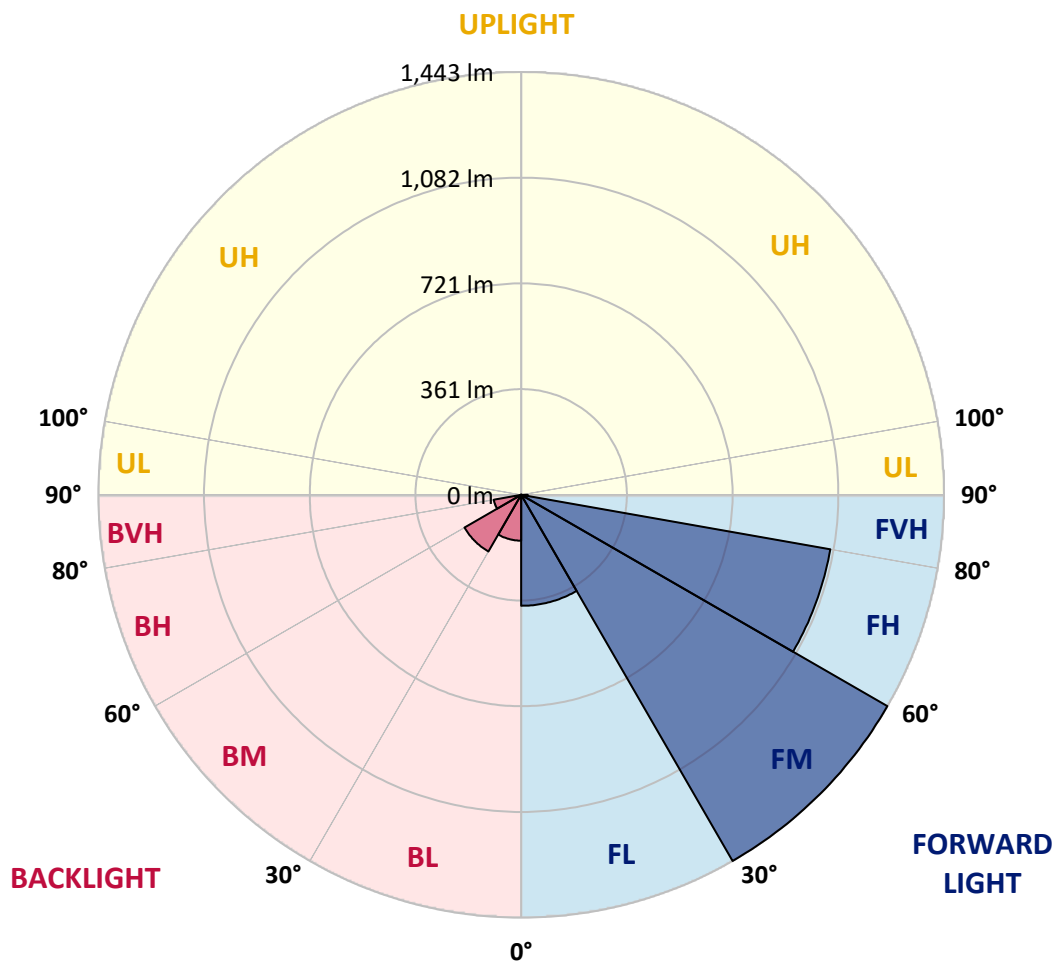
CATALOG NUMBER: ENV-SA1C-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 378.7 | 11.2 | | | |
| FM | (30°-60°) | 1442.7 | 42.5 | | | |
| FH | (60°-80°) | 1071.2 | 31.6 | | | G1/1800 |
| FVH | (80°-90°) | 22.3 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 156.4 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 223.3 | 6.6 | B1/1000 | | |
| BH | (60°-80°) | 94.9 | 2.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 2.5 | 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° | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 |
| 2.5° | 1292.0 | 1286.7 | 1274.6 | 1248.4 | 1210.8 | 1186.7 | 1171.2 | 1151.1 | 1130.3 | 1123.6 | 1110.1 |
| 5° | 1179.3 | 1170.5 | 1153.8 | 1088.0 | 1028.9 | 969.9 | 927.6 | 887.3 | 873.9 | 847.0 | 863.1 |
| 7.5° | 1070.5 | 1066.5 | 1027.6 | 942.3 | 848.4 | 772.5 | 724.2 | 665.1 | 647.7 | 620.2 | 598.0 |
| 10° | 985.3 | 981.9 | 935.0 | 823.5 | 722.2 | 659.1 | 620.8 | 582.6 | 544.3 | 505.4 | 474.5 |
| 12.5° | 942.3 | 935.0 | 880.6 | 760.4 | 666.5 | 614.1 | 573.9 | 522.9 | 481.9 | 429.6 | 392.0 |
| 15° | 949.1 | 942.3 | 879.9 | 750.4 | 639.6 | 567.1 | 507.4 | 447.0 | 389.3 | 337.6 | 300.7 |
| 17.5° | 1002.7 | 1000.1 | 924.2 | 759.1 | 607.4 | 511.4 | 431.6 | 350.4 | 281.9 | 226.2 | 194.6 |
| 20° | 1107.5 | 1099.4 | 989.3 | 777.9 | 573.9 | 447.0 | 337.6 | 237.6 | 180.5 | 142.3 | 128.9 |
| 22.5° | 1237.0 | 1218.9 | 1092.0 | 805.4 | 541.6 | 377.9 | 244.3 | 159.7 | 128.9 | 114.1 | 104.7 |
| 25° | 1389.3 | 1390.0 | 1219.5 | 842.3 | 509.4 | 313.4 | 171.2 | 126.9 | 108.7 | 98.0 | 89.9 |
| 27.5° | 1512.8 | 1503.4 | 1334.3 | 879.2 | 474.5 | 257.1 | 143.6 | 110.7 | 95.3 | 83.9 | 79.2 |
| 30° | 1604.1 | 1590.0 | 1410.2 | 904.8 | 429.6 | 217.5 | 128.9 | 105.4 | 89.9 | 77.2 | 71.1 |
| 32.5° | 1698.1 | 1680.6 | 1478.6 | 918.8 | 402.7 | 198.7 | 114.1 | 92.0 | 80.5 | 75.2 | 67.1 |
| 35° | 1808.2 | 1792.7 | 1554.5 | 917.5 | 388.6 | 187.9 | 103.4 | 83.2 | 68.5 | 59.7 | 54.4 |
| 37.5° | 1931.0 | 1899.4 | 1633.0 | 911.5 | 378.5 | 182.6 | 94.0 | 77.2 | 63.8 | 54.4 | 47.7 |
| 40° | 2036.4 | 2004.8 | 1705.5 | 903.4 | 371.8 | 177.2 | 88.6 | 73.2 | 60.4 | 50.3 | 43.6 |
| 42.5° | 2118.9 | 2088.7 | 1773.3 | 893.3 | 368.5 | 165.8 | 91.3 | 70.5 | 57.7 | 47.7 | 40.3 |
| 45° | 2190.1 | 2159.2 | 1853.8 | 892.0 | 367.1 | 157.7 | 89.9 | 69.8 | 56.4 | 44.3 | 37.6 |
| 47.5° | 2272.6 | 2256.5 | 1959.9 | 914.2 | 361.8 | 151.7 | 82.6 | 75.2 | 55.7 | 43.0 | 35.6 |
| 50° | 2394.8 | 2380.7 | 2098.8 | 979.9 | 353.7 | 145.6 | 75.2 | 82.6 | 55.7 | 41.6 | 33.6 |
| 52.5° | 2565.9 | 2549.8 | 2317.6 | 1065.8 | 346.3 | 138.9 | 67.8 | 79.9 | 56.4 | 39.6 | 32.2 |
| 55° | 2743.1 | 2740.4 | 2524.3 | 1157.1 | 339.6 | 124.2 | 59.7 | 71.8 | 55.0 | 36.9 | 30.2 |
| 57.5° | 2882.1 | 2880.0 | 2679.4 | 1218.9 | 326.9 | 100.0 | 54.4 | 59.7 | 51.0 | 33.6 | 27.5 |
| 60° | 2939.1 | 2922.3 | 2696.1 | 1218.9 | 297.3 | 82.6 | 49.7 | 47.0 | 51.7 | 30.2 | 24.2 |
| 61° | 2939.1 | 2917.6 | 2665.9 | 1200.7 | 282.6 | 78.5 | 47.0 | 43.6 | 53.0 | 28.9 | 22.8 |
| 62.5° | 2916.3 | 2880.7 | 2562.6 | 1135.6 | 259.1 | 78.5 | 43.0 | 38.9 | 48.3 | 27.5 | 20.8 |
| 65° | 2814.9 | 2756.5 | 2320.3 | 987.3 | 234.9 | 80.5 | 36.9 | 32.9 | 34.9 | 23.5 | 18.1 |
| 67.5° | 2564.6 | 2498.8 | 2006.2 | 781.3 | 215.4 | 85.2 | 30.9 | 28.9 | 26.8 | 20.8 | 16.1 |
| 70° | 2112.9 | 2057.2 | 1637.0 | 585.3 | 200.0 | 86.6 | 26.8 | 24.2 | 22.8 | 18.1 | 14.1 |
| 72.5° | 1350.4 | 1258.5 | 1022.2 | 396.7 | 160.4 | 75.2 | 22.1 | 22.8 | 20.8 | 14.8 | 11.4 |
| 75° | 652.4 | 677.9 | 594.7 | 200.0 | 108.1 | 49.0 | 17.5 | 18.8 | 16.8 | 13.4 | 10.1 |
| 77.5° | 292.0 | 286.6 | 283.9 | 51.0 | 27.5 | 16.8 | 10.7 | 12.8 | 13.4 | 12.1 | 8.7 |
| 80° | 30.2 | 40.9 | 24.2 | 15.4 | 10.1 | 7.4 | 6.0 | 6.7 | 8.1 | 8.7 | 4.7 |
| 82.5° | 1.3 | 0.7 | 0.7 | 2.0 | 2.0 | 1.3 | 0.0 | 0.0 | 1.3 | 1.3 | 0.7 |
| 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-SA1C-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 |
| 2.5° | 1098.1 | 1116.2 | 1108.1 | 1106.1 | 1116.8 | 1111.5 | 1127.6 | 1128.3 | 1140.3 | 1156.4 | 1166.5 |
| 5° | 863.1 | 849.0 | 877.2 | 896.0 | 919.5 | 912.1 | 940.3 | 937.0 | 952.4 | 977.9 | 967.8 |
| 7.5° | 599.4 | 601.4 | 616.1 | 632.9 | 696.0 | 708.8 | 718.2 | 725.5 | 724.9 | 730.9 | 741.7 |
| 10° | 458.4 | 447.0 | 436.9 | 460.4 | 485.3 | 512.8 | 516.8 | 526.9 | 499.4 | 510.8 | 516.1 |
| 12.5° | 375.2 | 361.8 | 339.6 | 327.5 | 333.6 | 349.7 | 356.4 | 362.4 | 346.3 | 347.0 | 359.1 |
| 15° | 284.6 | 266.5 | 257.7 | 241.6 | 235.6 | 234.2 | 237.6 | 228.9 | 226.9 | 219.5 | 224.2 |
| 17.5° | 185.2 | 179.9 | 175.2 | 171.8 | 167.1 | 165.8 | 153.7 | 132.9 | 120.8 | 118.1 | 118.1 |
| 20° | 123.5 | 119.5 | 119.5 | 126.2 | 124.2 | 118.8 | 102.7 | 85.2 | 76.5 | 73.8 | 75.2 |
| 22.5° | 101.3 | 98.7 | 94.6 | 94.6 | 97.3 | 93.3 | 78.5 | 65.8 | 59.7 | 59.7 | 59.7 |
| 25° | 87.9 | 86.6 | 82.6 | 78.5 | 79.9 | 76.5 | 63.8 | 55.7 | 51.7 | 51.0 | 51.7 |
| 27.5° | 77.2 | 76.5 | 71.8 | 67.8 | 67.8 | 65.1 | 55.0 | 47.7 | 45.0 | 43.6 | 44.3 |
| 30° | 69.8 | 68.5 | 63.1 | 59.7 | 59.1 | 56.4 | 47.0 | 41.6 | 38.9 | 38.3 | 38.3 |
| 32.5° | 64.4 | 61.7 | 57.1 | 53.7 | 51.7 | 47.7 | 40.9 | 35.6 | 32.9 | 32.2 | 32.2 |
| 35° | 51.7 | 51.7 | 49.7 | 47.7 | 45.0 | 38.9 | 34.2 | 29.5 | 26.8 | 26.2 | 26.2 |
| 37.5° | 45.0 | 42.3 | 38.9 | 39.6 | 38.3 | 32.9 | 28.2 | 23.5 | 21.5 | 20.8 | 20.8 |
| 40° | 40.9 | 37.6 | 32.9 | 30.9 | 31.5 | 28.9 | 23.5 | 18.1 | 15.4 | 16.1 | 15.4 |
| 42.5° | 36.9 | 34.2 | 28.9 | 24.2 | 23.5 | 24.2 | 18.1 | 12.8 | 10.7 | 10.7 | 10.7 |
| 45° | 34.2 | 31.5 | 25.5 | 20.1 | 16.8 | 18.8 | 14.1 | 8.7 | 6.7 | 6.7 | 6.7 |
| 47.5° | 32.2 | 29.5 | 22.8 | 16.8 | 12.1 | 12.8 | 10.1 | 5.4 | 4.0 | 2.7 | 3.4 |
| 50° | 30.9 | 27.5 | 20.8 | 13.4 | 8.7 | 7.4 | 6.7 | 2.7 | 0.7 | 0.7 | 0.0 |
| 52.5° | 28.9 | 26.2 | 18.8 | 11.4 | 6.7 | 4.7 | 3.4 | 0.7 | 0.0 | 0.0 | 0.0 |
| 55° | 27.5 | 24.2 | 16.8 | 10.1 | 5.4 | 2.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 24.8 | 22.1 | 14.8 | 8.1 | 4.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 22.1 | 20.1 | 12.8 | 6.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 61° | 20.8 | 18.8 | 12.1 | 5.4 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 19.5 | 17.5 | 10.7 | 4.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 16.8 | 14.8 | 9.4 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 14.8 | 13.4 | 8.1 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 12.8 | 11.4 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 10.7 | 10.1 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 9.4 | 8.1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 7.4 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 4.0 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.7 | 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-SA1C-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 | 1286.7 |
| 2.5° | 1175.9 | 1199.4 | 1221.6 | 1249.7 | 1265.2 | 1307.5 | 1337.7 | 1363.2 | 1383.3 | 1387.3 | 1403.4 |
| 5° | 994.7 | 1027.6 | 1049.1 | 1108.1 | 1141.0 | 1211.5 | 1265.8 | 1330.3 | 1388.0 | 1419.6 | 1448.4 |
| 7.5° | 749.0 | 765.1 | 802.1 | 861.1 | 939.0 | 1000.1 | 1092.0 | 1173.2 | 1277.3 | 1334.3 | 1388.0 |
| 10° | 528.9 | 543.7 | 598.0 | 659.8 | 730.9 | 833.6 | 945.0 | 1051.7 | 1157.1 | 1230.3 | 1293.4 |
| 12.5° | 371.8 | 420.2 | 473.9 | 552.4 | 622.2 | 697.4 | 816.2 | 941.0 | 1072.5 | 1142.4 | 1210.8 |
| 15° | 244.3 | 287.3 | 361.8 | 460.4 | 547.7 | 620.8 | 731.6 | 877.9 | 1045.0 | 1122.9 | 1188.0 |
| 17.5° | 120.8 | 152.4 | 218.1 | 324.2 | 440.3 | 555.7 | 689.3 | 866.5 | 1080.6 | 1168.5 | 1229.6 |
| 20° | 75.8 | 85.2 | 109.4 | 183.2 | 316.8 | 487.3 | 657.8 | 889.3 | 1177.3 | 1274.6 | 1314.2 |
| 22.5° | 61.1 | 63.8 | 73.2 | 97.3 | 193.3 | 402.7 | 630.2 | 920.2 | 1283.3 | 1402.1 | 1443.0 |
| 25° | 52.4 | 54.4 | 59.7 | 71.8 | 112.1 | 302.0 | 596.7 | 974.6 | 1406.8 | 1550.4 | 1560.5 |
| 27.5° | 45.0 | 47.0 | 51.7 | 61.1 | 79.9 | 203.4 | 548.4 | 1038.3 | 1554.5 | 1680.6 | 1673.9 |
| 30° | 38.3 | 40.9 | 45.6 | 52.4 | 63.1 | 137.6 | 458.4 | 1102.8 | 1663.2 | 1764.5 | 1753.8 |
| 32.5° | 32.9 | 34.9 | 38.9 | 45.0 | 52.4 | 94.6 | 344.3 | 1145.0 | 1753.8 | 1843.7 | 1820.2 |
| 35° | 26.8 | 28.9 | 32.2 | 37.6 | 42.3 | 67.1 | 260.4 | 1146.4 | 1847.1 | 1941.7 | 1882.7 |
| 37.5° | 21.5 | 22.8 | 26.2 | 30.9 | 34.9 | 52.4 | 191.3 | 1124.2 | 1962.5 | 2069.3 | 1953.8 |
| 40° | 16.1 | 18.1 | 21.5 | 25.5 | 29.5 | 44.3 | 143.0 | 1070.5 | 2075.3 | 2196.8 | 2039.7 |
| 42.5° | 10.7 | 13.4 | 16.8 | 20.8 | 28.2 | 35.6 | 100.7 | 981.3 | 2166.6 | 2310.2 | 2123.6 |
| 45° | 6.7 | 8.7 | 12.8 | 17.5 | 28.9 | 28.2 | 67.1 | 874.6 | 2231.7 | 2396.8 | 2180.7 |
| 47.5° | 3.4 | 5.4 | 9.4 | 16.8 | 25.5 | 20.8 | 41.6 | 772.5 | 2290.7 | 2447.1 | 2206.8 |
| 50° | 0.7 | 2.0 | 6.7 | 20.8 | 21.5 | 15.4 | 27.5 | 708.8 | 2321.6 | 2434.4 | 2204.2 |
| 52.5° | 0.0 | 0.0 | 4.7 | 20.1 | 15.4 | 12.1 | 21.5 | 699.4 | 2369.9 | 2451.2 | 2250.5 |
| 55° | 0.0 | 0.0 | 2.0 | 8.7 | 8.7 | 10.1 | 18.8 | 686.6 | 2455.9 | 2551.2 | 2390.1 |
| 57.5° | 0.0 | 0.0 | 0.0 | 4.0 | 5.4 | 8.1 | 17.5 | 653.1 | 2546.5 | 2657.2 | 2559.9 |
| 60° | 0.0 | 0.0 | 0.0 | 2.0 | 3.4 | 6.7 | 15.4 | 576.5 | 2463.2 | 2657.9 | 2700.8 |
| 61° | 0.0 | 0.0 | 0.0 | 2.0 | 2.7 | 6.0 | 14.1 | 549.7 | 2388.7 | 2614.9 | 2718.3 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.7 | 2.0 | 4.7 | 12.1 | 496.7 | 2277.3 | 2545.8 | 2710.2 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 2.7 | 9.4 | 401.4 | 2091.4 | 2372.0 | 2617.6 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 6.0 | 282.6 | 1824.3 | 2175.3 | 2419.6 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 163.8 | 1469.9 | 1841.7 | 2072.6 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 74.5 | 953.7 | 1422.2 | 1635.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.5 | 587.3 | 1027.6 | 1221.6 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.1 | 398.0 | 683.9 | 822.2 |
| 80° | 0.0 | 1.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | 245.0 | 426.9 | 463.8 |
| 82.5° | 0.0 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 126.9 | 301.4 | 307.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.0 | 63.8 |
| 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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| 15° | 1270.5 | 1315.5 | 1314.2 | 1328.9 | 1325.6 | 1265.8 | 1153.1 | 1029.6 | 973.9 | 949.1 |
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| 20° | 1263.8 | 1198.1 | 1159.8 | 1159.1 | 1208.8 | 1290.7 | 1298.7 | 1207.5 | 1146.4 | 1107.5 |
| 22.5° | 1318.9 | 1177.3 | 1118.2 | 1119.5 | 1180.6 | 1323.6 | 1398.7 | 1352.4 | 1285.3 | 1237.0 |
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| 27.5° | 1482.6 | 1216.2 | 1102.8 | 1111.5 | 1189.3 | 1367.9 | 1568.6 | 1639.0 | 1565.2 | 1512.8 |
| 30° | 1540.4 | 1259.1 | 1114.8 | 1124.2 | 1207.5 | 1380.0 | 1592.0 | 1739.0 | 1662.5 | 1604.1 |
| 32.5° | 1594.7 | 1303.4 | 1134.3 | 1143.7 | 1243.7 | 1404.8 | 1636.3 | 1839.7 | 1755.8 | 1698.1 |
| 35° | 1647.8 | 1347.1 | 1170.5 | 1187.3 | 1302.1 | 1449.8 | 1681.3 | 1957.8 | 1888.0 | 1808.2 |
| 37.5° | 1693.4 | 1395.4 | 1233.0 | 1268.5 | 1381.3 | 1518.9 | 1742.4 | 2092.1 | 2020.3 | 1931.0 |
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| 42.5° | 1762.5 | 1553.1 | 1546.4 | 1602.1 | 1672.6 | 1675.9 | 1829.6 | 2222.3 | 2204.2 | 2118.9 |
| 45° | 1814.2 | 1733.7 | 1788.7 | 1880.0 | 1875.3 | 1776.6 | 1824.3 | 2261.2 | 2262.6 | 2190.1 |
| 47.5° | 1898.8 | 1959.9 | 2118.9 | 2180.7 | 2149.1 | 1914.2 | 1829.6 | 2299.5 | 2329.7 | 2272.6 |
| 50° | 2019.6 | 2216.2 | 2424.3 | 2506.2 | 2414.2 | 2052.5 | 1877.3 | 2345.1 | 2436.4 | 2394.8 |
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| 55° | 2270.6 | 2577.3 | 2906.9 | 2963.3 | 2862.6 | 2367.3 | 2138.4 | 2588.7 | 2736.4 | 2743.1 |
| 57.5° | 2421.6 | 2728.4 | 3037.8 | 3094.8 | 3018.3 | 2575.3 | 2351.2 | 2796.8 | 2884.1 | 2882.1 |
| 60° | 2589.4 | 2869.3 | 3096.8 | 3128.4 | 3084.8 | 2783.4 | 2580.0 | 2987.4 | 2985.4 | 2939.1 |
| 61° | 2685.4 | 2914.3 | 3092.8 | 3102.2 | 3059.9 | 2844.5 | 2698.2 | 3060.6 | 3000.2 | 2939.1 |
| 62.5° | 2791.4 | 2955.2 | 3043.1 | 3011.6 | 2966.0 | 2865.9 | 2869.3 | 3140.5 | 3010.3 | 2916.3 |
| 65° | 2898.8 | 2852.5 | 2814.3 | 2663.3 | 2620.3 | 2668.6 | 3013.6 | 3110.3 | 2949.2 | 2814.9 |
| 67.5° | 2714.9 | 2444.4 | 2361.9 | 2210.2 | 2040.4 | 2237.7 | 2876.7 | 2925.7 | 2743.1 | 2564.6 |
| 70° | 2218.9 | 1796.1 | 1698.1 | 1692.7 | 1570.6 | 1787.4 | 2537.1 | 2501.5 | 2276.7 | 2112.9 |
| 72.5° | 1739.0 | 1225.6 | 1092.0 | 1122.9 | 1098.7 | 1332.3 | 2075.3 | 1678.6 | 1459.8 | 1350.4 |
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| 80° | 518.2 | 384.6 | 451.0 | 357.7 | 358.4 | 288.6 | 275.9 | 51.7 | 41.6 | 30.2 |
| 82.5° | 297.3 | 184.6 | 139.6 | 55.0 | 115.4 | 115.4 | 22.1 | 0.7 | 0.7 | 1.3 |
| 85° | 28.9 | 8.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 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 |

(END OF REPORT)