

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:

Luminaire Tested: **ENV-SA1F-740-U-T4FT-HSS-ULG**

Issue Date: 3/30/2022

Test Information

Test Method: LM-79-08
Report Number:
REPORT IS A COMBINATION OF REPORTS P401874 AND P226775
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1F-740-U-T4FT-HSS-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7287.9 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')
IES Classification: Type IV - Short
BUG Rating: B1 - U5 - G2

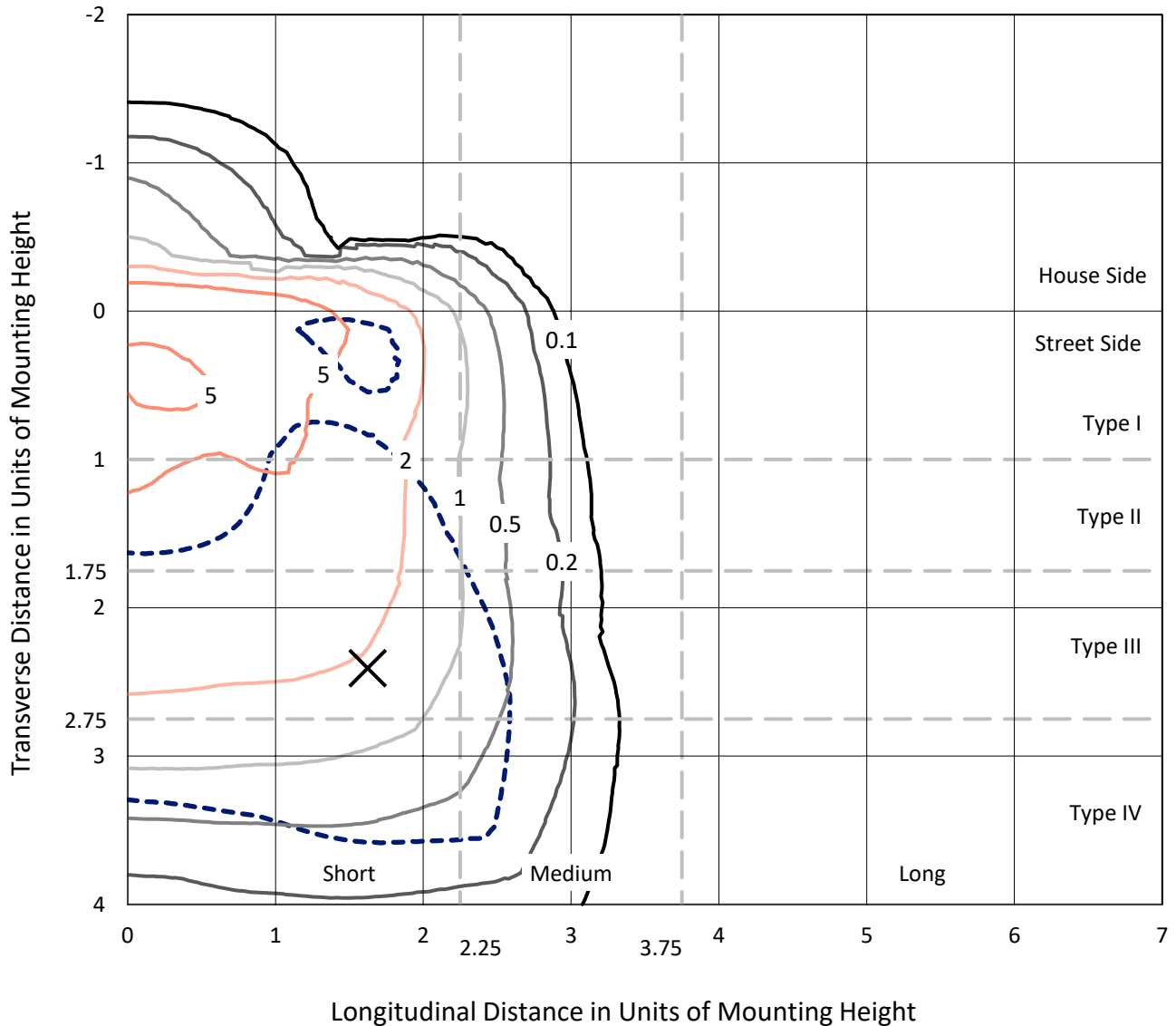
Input Watts (W): 82.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1F-740-U-T4FT-HSS-ULG

Iso-Footcandle Lines of Horizontal Illumination

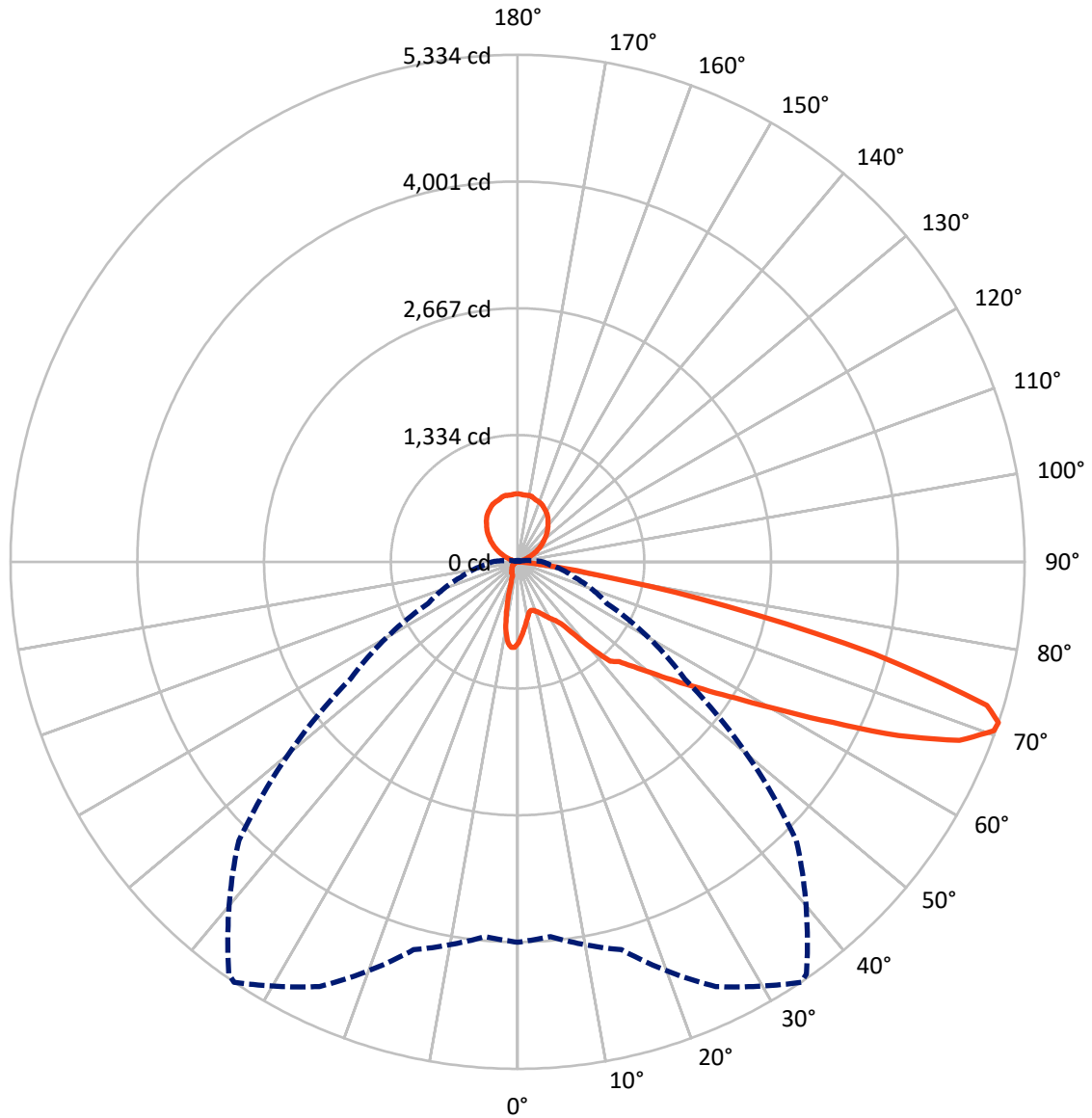
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

REPORT NUMBER:
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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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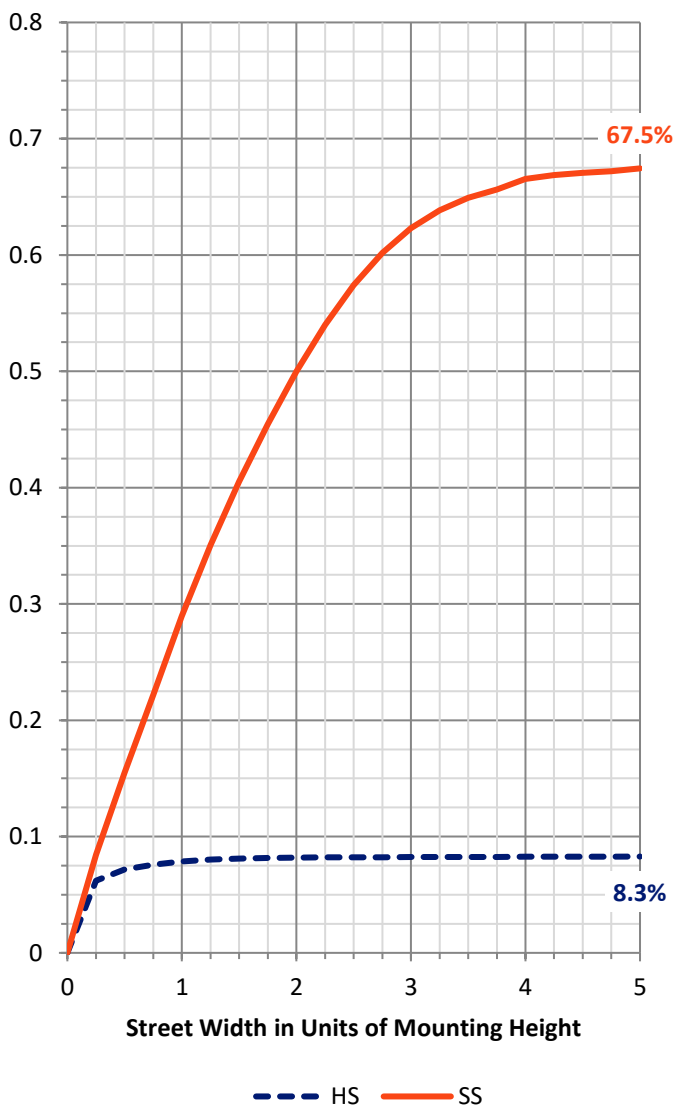
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 609.7 | 887.0 | 1496.7 |
| | % Fixture | 8.4 | 12.2 | 20.5 |
| Street Side | Lumens | 4904.3 | 887.0 | 5791.2 |
| | % Fixture | 67.3 | 12.2 | 79.5 |
| Total | Lumens | 5514.0 | 1773.9 | 7287.9 |
| | % Fixture | 75.7 | 24.3 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.3 | 1.0 |
| 10°-20° | 172.6 | 2.4 |
| 20°-30° | 257.6 | 3.5 |
| 30°-40° | 430.2 | 5.9 |
| 40°-50° | 777.0 | 10.7 |
| 50°-60° | 1232.9 | 16.9 |
| 60°-70° | 1656.8 | 22.7 |
| 70°-80° | 879.1 | 12.1 |
| 80°-90° | 32.4 | 0.4 |
| 90°-100° | 8.4 | 0.1 |
| 100°-110° | 58.7 | 0.8 |
| 110°-120° | 169.9 | 2.3 |
| 120°-130° | 279.4 | 3.8 |
| 130°-140° | 344.6 | 4.7 |
| 140°-150° | 352.5 | 4.8 |
| 150°-160° | 297.0 | 4.1 |
| 160°-170° | 195.5 | 2.7 |
| 170°-180° | 67.8 | 0.9 |
| 0°-90° | 5514.0 | 75.7 |
| 0°-180° | 7287.9 | 100.0 |

Coefficient of Utilization

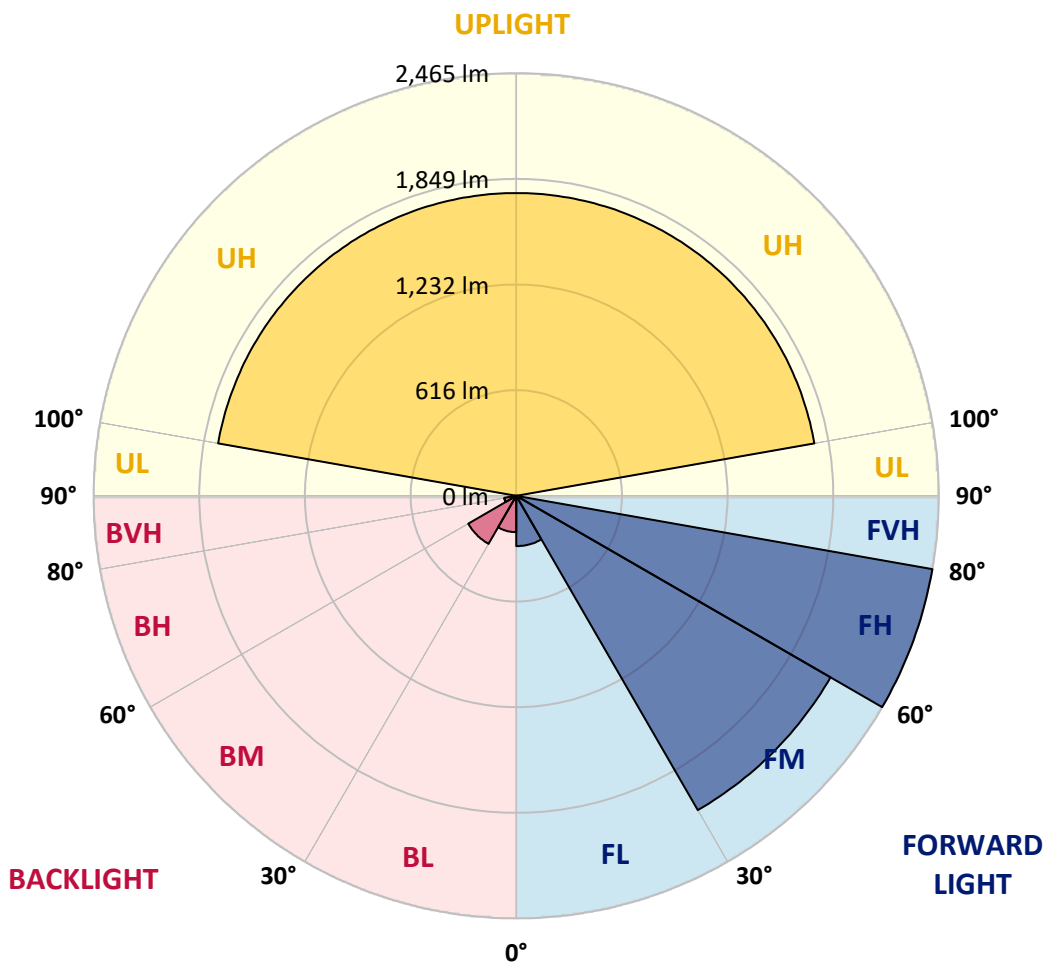


REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1F-740-U-T4FT-HSS-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|---------|
| | | | B | U | G |
| FL (0°-30°) | 293.4 | 4.0 | | | |
| FM (30°-60°) | 2116.7 | 29.0 | | | |
| FH (60°-80°) | 2464.7 | 33.8 | | | G2/5000 |
| FVH (80°-90°) | 29.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 212.1 | 2.9 | B1/500 | | |
| BM (30°-60°) | 323.5 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 71.2 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 8.4 | 0.1 | | U1/10 | |
| UH (100°-180°) | 1765.5 | 24.2 | | U5 | |

BUG Rating: B1-U5-G2
 Type IV Short





REPORT NUMBER:

CATALOG NUMBER: ENV-SA1F-740-U-T4FT-HSS-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 |
| 2.5° | 778.0 | 768.0 | 776.9 | 781.3 | 784.6 | 789.1 | 795.7 | 807.9 | 821.2 | 836.7 | 845.5 |
| 5° | 678.4 | 683.9 | 687.3 | 699.4 | 711.6 | 713.8 | 734.8 | 759.2 | 790.2 | 821.2 | 847.7 |
| 7.5° | 597.6 | 597.6 | 607.6 | 626.4 | 646.3 | 648.5 | 685.0 | 717.1 | 761.4 | 809.0 | 852.2 |
| 10° | 533.4 | 535.6 | 543.4 | 562.2 | 587.7 | 593.2 | 634.1 | 678.4 | 733.7 | 795.7 | 856.6 |
| 12.5° | 512.4 | 511.3 | 510.2 | 523.5 | 544.5 | 550.0 | 595.4 | 648.5 | 713.8 | 789.1 | 867.6 |
| 15° | 525.7 | 522.4 | 514.6 | 516.8 | 530.1 | 535.6 | 575.5 | 628.6 | 701.6 | 788.0 | 886.5 |
| 17.5° | 546.7 | 542.3 | 527.9 | 523.5 | 537.9 | 543.4 | 576.6 | 623.1 | 697.2 | 793.5 | 908.6 |
| 20° | 572.2 | 567.7 | 545.6 | 540.1 | 554.5 | 558.9 | 593.2 | 633.0 | 699.4 | 804.6 | 938.5 |
| 22.5° | 608.7 | 603.1 | 571.1 | 564.4 | 578.8 | 583.2 | 619.7 | 656.3 | 712.7 | 824.5 | 979.4 |
| 25° | 652.9 | 646.3 | 605.4 | 596.5 | 614.2 | 618.6 | 655.2 | 689.5 | 734.8 | 851.0 | 1031.4 |
| 27.5° | 701.6 | 693.9 | 650.7 | 633.0 | 652.9 | 659.6 | 693.9 | 731.5 | 766.9 | 884.2 | 1100.1 |
| 30° | 745.9 | 737.1 | 695.0 | 675.1 | 695.0 | 698.3 | 739.3 | 781.3 | 819.0 | 940.7 | 1200.8 |
| 32.5° | 868.8 | 846.6 | 781.3 | 723.8 | 737.1 | 743.7 | 793.5 | 859.9 | 916.3 | 1008.2 | 1330.2 |
| 35° | 1052.5 | 1034.8 | 955.1 | 855.5 | 809.0 | 811.2 | 875.4 | 959.5 | 985.0 | 1086.8 | 1490.7 |
| 37.5° | 1229.5 | 1214.0 | 1144.3 | 1052.5 | 963.9 | 967.2 | 978.3 | 1059.1 | 1089.0 | 1222.9 | 1686.6 |
| 40° | 1423.2 | 1398.9 | 1343.5 | 1256.1 | 1195.2 | 1180.8 | 1126.6 | 1183.1 | 1248.3 | 1394.4 | 1900.2 |
| 42.5° | 1512.8 | 1489.6 | 1432.1 | 1437.6 | 1431.0 | 1405.5 | 1298.1 | 1376.7 | 1449.8 | 1643.4 | 2135.9 |
| 45° | 1661.1 | 1615.8 | 1497.4 | 1506.2 | 1497.4 | 1499.6 | 1526.1 | 1640.1 | 1703.2 | 1906.8 | 2402.6 |
| 47.5° | 1798.4 | 1746.4 | 1622.4 | 1613.6 | 1652.3 | 1672.2 | 1815.0 | 1953.3 | 1958.8 | 2135.9 | 2611.8 |
| 50° | 1923.4 | 1885.8 | 1771.8 | 1772.9 | 1843.7 | 1865.9 | 2151.4 | 2277.6 | 2165.8 | 2311.9 | 2775.6 |
| 52.5° | 2089.4 | 2036.3 | 1934.5 | 1971.0 | 2081.7 | 2101.6 | 2486.7 | 2562.0 | 2315.2 | 2471.2 | 2904.0 |
| 55° | 2243.3 | 2214.5 | 2139.2 | 2193.5 | 2362.8 | 2414.8 | 2827.6 | 2781.1 | 2420.3 | 2612.9 | 2965.9 |
| 57.5° | 2495.6 | 2467.9 | 2448.0 | 2475.7 | 2702.5 | 2767.8 | 3172.9 | 2936.0 | 2502.2 | 2707.0 | 2937.2 |
| 60° | 2916.1 | 2888.5 | 2828.7 | 2854.2 | 3149.6 | 3182.8 | 3444.0 | 3093.2 | 2534.3 | 2733.5 | 2824.3 |
| 62.5° | 3435.2 | 3400.9 | 3304.6 | 3421.9 | 3718.5 | 3717.4 | 3725.1 | 3176.2 | 2493.4 | 2654.9 | 2526.6 |
| 65° | 3903.3 | 3855.7 | 3805.9 | 4045.0 | 4405.7 | 4355.9 | 4023.9 | 3186.2 | 2363.9 | 2275.4 | 1954.4 |
| 67.5° | 4244.2 | 4225.3 | 4253.0 | 4626.0 | 5014.4 | 4964.6 | 4313.9 | 3048.9 | 1967.7 | 1642.3 | 1207.4 |
| 70° | 4230.9 | 4192.1 | 4368.1 | 4963.5 | 5316.5 | 5275.6 | 4301.7 | 2505.5 | 1312.5 | 869.9 | 505.8 |
| 71° | 4001.8 | 3957.5 | 4225.3 | 4930.3 | 5334.2 | 5295.5 | 4146.8 | 2143.7 | 1038.1 | 614.2 | 333.1 |
| 72.5° | 3092.1 | 3226.0 | 3652.1 | 4575.1 | 5163.8 | 5114.0 | 3725.1 | 1641.2 | 657.4 | 355.2 | 167.1 |
| 75° | 1308.1 | 1381.1 | 2168.0 | 3265.8 | 3873.4 | 3848.0 | 2511.1 | 758.1 | 302.1 | 160.5 | 64.2 |
| 77.5° | 336.4 | 332.0 | 664.0 | 1401.1 | 2255.4 | 2295.3 | 1157.6 | 260.1 | 157.2 | 114.0 | 36.5 |
| 80° | 65.3 | 70.8 | 189.2 | 486.9 | 861.0 | 884.2 | 377.4 | 114.0 | 105.1 | 89.6 | 18.8 |
| 82.5° | 6.6 | 7.7 | 33.2 | 150.5 | 288.8 | 278.9 | 83.0 | 43.2 | 64.2 | 60.9 | 8.9 |
| 85° | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 4.4 | 15.5 | 16.6 | 2.2 |
| 87.5° | 0.0 | 0.0 | 1.1 | 1.1 | 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 |
| 92.5° | 4.1 | 4.1 | 5.1 | 6.1 | 6.1 | 6.1 | 6.1 | 7.2 | 7.2 | 6.1 | 6.1 |
| 95° | 5.1 | 5.1 | 6.1 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 8.2 | 7.2 | 7.2 |
| 97.5° | 7.2 | 7.2 | 8.2 | 8.2 | 9.1 | 9.2 | 9.2 | 12.3 | 10.2 | 9.2 | 8.2 |
| 100° | 8.2 | 8.2 | 9.2 | 10.2 | 12.1 | 12.3 | 21.5 | 29.7 | 26.6 | 23.5 | 19.4 |
| 102.5° | 11.3 | 11.3 | 13.3 | 18.4 | 26.7 | 27.6 | 40.9 | 51.1 | 48.1 | 43.0 | 39.9 |
| 105° | 21.5 | 22.5 | 27.6 | 36.8 | 47.9 | 49.1 | 64.4 | 73.7 | 71.6 | 66.5 | 62.4 |
| 107.5° | 41.9 | 43.0 | 50.1 | 59.3 | 73.2 | 74.7 | 90.0 | 97.2 | 96.2 | 92.1 | 89.0 |



REPORT NUMBER:

CATALOG NUMBER: ENV-SA1F-740-U-T4FT-HSS-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 67.5 | 69.6 | 75.7 | 89.0 | 102.8 | 104.3 | 116.6 | 122.8 | 123.8 | 121.7 | 118.7 |
| 112.5° | 101.3 | 101.3 | 108.4 | 123.8 | 135.8 | 137.1 | 146.3 | 151.4 | 153.4 | 152.4 | 150.4 |
| 115° | 143.2 | 142.2 | 150.4 | 162.6 | 171.0 | 171.9 | 178.0 | 183.1 | 186.2 | 183.1 | 181.1 |
| 117.5° | 188.2 | 188.2 | 193.3 | 201.5 | 206.1 | 206.6 | 209.7 | 215.8 | 219.9 | 214.8 | 212.8 |
| 120° | 230.2 | 228.1 | 231.2 | 238.3 | 242.0 | 242.4 | 248.6 | 251.6 | 255.7 | 250.6 | 248.6 |
| 122.5° | 269.0 | 266.0 | 267.0 | 273.1 | 276.8 | 277.2 | 283.4 | 285.4 | 289.5 | 284.4 | 282.3 |
| 125° | 304.8 | 300.7 | 302.8 | 305.9 | 311.4 | 312.0 | 317.1 | 320.2 | 322.2 | 317.1 | 317.1 |
| 127.5° | 337.6 | 336.6 | 336.6 | 340.6 | 346.2 | 346.8 | 347.8 | 352.9 | 353.9 | 353.9 | 352.9 |
| 130° | 371.3 | 369.3 | 370.3 | 374.4 | 378.1 | 378.5 | 380.5 | 385.7 | 389.7 | 389.7 | 387.7 |
| 132.5° | 405.1 | 403.0 | 402.0 | 410.2 | 413.0 | 413.3 | 414.3 | 420.4 | 425.5 | 423.5 | 423.5 |
| 135° | 438.8 | 435.8 | 435.8 | 441.9 | 444.7 | 445.0 | 447.0 | 453.2 | 458.3 | 457.3 | 460.3 |
| 137.5° | 470.6 | 467.5 | 469.5 | 470.6 | 474.2 | 474.6 | 478.7 | 483.9 | 485.9 | 486.9 | 492.0 |
| 140° | 499.2 | 496.1 | 498.2 | 500.2 | 502.1 | 502.3 | 508.4 | 511.5 | 513.5 | 515.6 | 520.7 |
| 142.5° | 529.9 | 526.8 | 528.9 | 529.9 | 532.7 | 533.0 | 537.0 | 539.1 | 545.2 | 545.2 | 546.3 |
| 145° | 562.6 | 558.5 | 556.5 | 559.6 | 562.3 | 562.6 | 563.6 | 568.8 | 574.9 | 573.9 | 570.8 |
| 147.5° | 588.2 | 585.1 | 584.1 | 587.2 | 587.2 | 587.2 | 588.2 | 593.3 | 598.4 | 599.4 | 596.4 |
| 150° | 608.7 | 605.6 | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 | 610.7 | 613.8 | 616.8 | 619.9 |
| 152.5° | 625.0 | 622.0 | 622.0 | 623.0 | 623.9 | 624.0 | 624.0 | 625.0 | 628.1 | 632.2 | 637.3 |
| 155° | 643.4 | 639.3 | 639.3 | 641.4 | 644.2 | 644.5 | 642.4 | 640.4 | 645.5 | 650.6 | 652.6 |
| 157.5° | 660.8 | 657.8 | 657.8 | 658.8 | 660.6 | 660.8 | 659.8 | 658.8 | 662.9 | 664.9 | 664.9 |
| 160° | 678.2 | 675.1 | 674.1 | 671.1 | 670.1 | 670.0 | 670.0 | 673.1 | 679.2 | 676.2 | 675.1 |
| 162.5° | 688.4 | 684.4 | 684.4 | 680.3 | 676.6 | 676.2 | 678.2 | 682.3 | 686.4 | 685.4 | 683.3 |
| 165° | 696.6 | 693.6 | 691.5 | 691.5 | 688.7 | 688.4 | 688.4 | 687.4 | 692.5 | 695.6 | 693.6 |
| 167.5° | 705.8 | 702.8 | 699.7 | 701.7 | 703.6 | 703.8 | 700.7 | 693.6 | 699.7 | 703.8 | 703.8 |
| 170° | 714.0 | 711.0 | 707.9 | 707.9 | 708.8 | 708.9 | 706.9 | 701.7 | 704.8 | 709.9 | 712.0 |
| 172.5° | 715.0 | 713.0 | 711.0 | 708.9 | 706.1 | 705.8 | 705.8 | 704.8 | 707.9 | 709.9 | 712.0 |
| 175° | 716.1 | 714.0 | 713.0 | 711.0 | 707.3 | 706.9 | 705.8 | 705.8 | 711.0 | 712.0 | 709.9 |
| 177.5° | 723.2 | 721.2 | 716.1 | 715.0 | 713.2 | 713.0 | 711.0 | 709.9 | 715.0 | 717.1 | 714.0 |
| 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |



REPORT NUMBER:

CATALOG NUMBER: ENV-SA1F-740-U-T4FT-HSS-ULG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 | 854.4 |
| 2.5° | 852.2 | 862.1 | 873.2 | 880.9 | 888.7 | 889.8 | 900.8 | 898.6 | 902.0 | 903.1 | 902.0 |
| 5° | 862.1 | 875.4 | 896.4 | 907.5 | 911.9 | 904.2 | 902.0 | 889.8 | 885.4 | 879.8 | 874.3 |
| 7.5° | 873.2 | 889.8 | 914.1 | 919.7 | 904.2 | 875.4 | 852.2 | 822.3 | 794.6 | 776.9 | 779.1 |
| 10° | 885.4 | 906.4 | 926.3 | 911.9 | 872.1 | 815.6 | 750.3 | 683.9 | 625.3 | 603.1 | 610.9 |
| 12.5° | 900.8 | 926.3 | 935.2 | 895.3 | 817.8 | 703.9 | 585.4 | 484.7 | 423.9 | 387.3 | 382.9 |
| 15° | 924.1 | 949.5 | 939.6 | 868.8 | 731.5 | 553.3 | 406.2 | 304.3 | 245.7 | 226.9 | 216.9 |
| 17.5° | 952.9 | 977.2 | 939.6 | 821.2 | 608.7 | 396.2 | 246.8 | 184.8 | 166.0 | 161.6 | 162.7 |
| 20° | 988.3 | 1011.5 | 935.2 | 749.2 | 469.2 | 243.5 | 164.9 | 152.7 | 152.7 | 152.7 | 151.6 |
| 22.5° | 1035.9 | 1048.0 | 928.5 | 654.1 | 323.2 | 164.9 | 146.1 | 145.0 | 146.1 | 146.1 | 146.1 |
| 25° | 1093.4 | 1091.2 | 916.3 | 540.1 | 203.6 | 140.5 | 139.4 | 139.4 | 140.5 | 141.7 | 141.7 |
| 27.5° | 1169.8 | 1146.5 | 895.3 | 403.9 | 143.9 | 130.6 | 132.8 | 135.0 | 137.2 | 139.4 | 139.4 |
| 30° | 1276.0 | 1219.6 | 861.0 | 273.4 | 121.7 | 120.6 | 125.1 | 131.7 | 135.0 | 137.2 | 137.2 |
| 32.5° | 1390.0 | 1294.8 | 802.4 | 174.9 | 111.8 | 110.7 | 115.1 | 125.1 | 133.9 | 136.1 | 136.1 |
| 35° | 1533.9 | 1375.6 | 714.9 | 126.2 | 105.1 | 102.9 | 107.3 | 116.2 | 129.5 | 136.1 | 136.1 |
| 37.5° | 1685.5 | 1461.9 | 587.7 | 106.2 | 98.5 | 96.3 | 99.6 | 106.2 | 121.7 | 133.9 | 135.0 |
| 40° | 1847.1 | 1538.3 | 441.6 | 98.5 | 91.9 | 90.7 | 91.9 | 98.5 | 110.7 | 127.3 | 130.6 |
| 42.5° | 2009.7 | 1602.5 | 308.8 | 90.7 | 86.3 | 84.1 | 86.3 | 90.7 | 101.8 | 116.2 | 118.4 |
| 45° | 2189.0 | 1673.3 | 205.8 | 84.1 | 81.9 | 79.7 | 81.9 | 85.2 | 93.0 | 100.7 | 101.8 |
| 47.5° | 2319.6 | 1698.8 | 141.7 | 76.4 | 75.3 | 76.4 | 77.5 | 79.7 | 84.1 | 85.2 | 84.1 |
| 50° | 2405.9 | 1685.5 | 101.8 | 68.6 | 69.7 | 73.0 | 73.0 | 74.1 | 74.1 | 70.8 | 69.7 |
| 52.5° | 2469.0 | 1636.8 | 78.6 | 58.7 | 65.3 | 68.6 | 68.6 | 66.4 | 64.2 | 59.8 | 58.7 |
| 55° | 2475.7 | 1527.2 | 62.0 | 50.9 | 58.7 | 64.2 | 63.1 | 58.7 | 54.2 | 49.8 | 49.8 |
| 57.5° | 2391.6 | 1361.2 | 50.9 | 43.2 | 50.9 | 56.4 | 54.2 | 49.8 | 44.3 | 40.9 | 40.9 |
| 60° | 2255.4 | 1190.8 | 43.2 | 36.5 | 42.1 | 47.6 | 44.3 | 40.9 | 35.4 | 32.1 | 32.1 |
| 62.5° | 2004.2 | 1022.6 | 35.4 | 29.9 | 34.3 | 37.6 | 36.5 | 33.2 | 27.7 | 25.5 | 24.3 |
| 65° | 1536.1 | 778.0 | 26.6 | 23.2 | 26.6 | 31.0 | 28.8 | 25.5 | 22.1 | 18.8 | 17.7 |
| 67.5° | 923.0 | 468.1 | 21.0 | 17.7 | 21.0 | 24.3 | 22.1 | 18.8 | 15.5 | 13.3 | 13.3 |
| 70° | 390.7 | 200.3 | 16.6 | 13.3 | 15.5 | 18.8 | 17.7 | 15.5 | 12.2 | 11.1 | 11.1 |
| 71° | 265.6 | 142.8 | 14.4 | 12.2 | 14.4 | 17.7 | 16.6 | 14.4 | 12.2 | 11.1 | 11.1 |
| 72.5° | 136.1 | 73.0 | 12.2 | 10.0 | 13.3 | 15.5 | 15.5 | 13.3 | 11.1 | 11.1 | 11.1 |
| 75° | 48.7 | 31.0 | 10.0 | 8.9 | 11.1 | 11.1 | 12.2 | 12.2 | 12.2 | 12.2 | 11.1 |
| 77.5° | 27.7 | 18.8 | 8.9 | 8.9 | 8.9 | 10.0 | 12.2 | 13.3 | 14.4 | 14.4 | 13.3 |
| 80° | 15.5 | 10.0 | 5.5 | 6.6 | 8.9 | 10.0 | 12.2 | 13.3 | 15.5 | 15.5 | 14.4 |
| 82.5° | 7.7 | 3.3 | 1.1 | 3.3 | 5.5 | 8.9 | 10.0 | 11.1 | 13.3 | 12.2 | 12.2 |
| 85° | 1.1 | 0.0 | 0.0 | 1.1 | 3.3 | 4.4 | 6.6 | 8.9 | 11.1 | 11.1 | 10.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 2.2 | 3.3 | 5.5 | 7.7 | 8.9 | 7.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 6.1 | 6.1 | 6.1 | 7.2 | 7.2 | 6.1 | 6.1 | 6.1 | 5.1 | 4.1 | 4.1 |
| 95° | 7.2 | 7.2 | 7.2 | 8.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.1 | 5.1 | 5.1 |
| 97.5° | 8.2 | 8.2 | 9.2 | 10.2 | 12.3 | 9.2 | 9.2 | 8.2 | 8.2 | 7.2 | 7.2 |
| 100° | 19.4 | 19.4 | 23.5 | 26.6 | 29.7 | 21.5 | 12.3 | 10.2 | 9.2 | 8.2 | 8.2 |
| 102.5° | 38.9 | 39.9 | 43.0 | 48.1 | 51.1 | 40.9 | 27.6 | 18.4 | 13.3 | 11.3 | 11.3 |
| 105° | 62.4 | 62.4 | 66.5 | 71.6 | 73.7 | 64.4 | 49.1 | 36.8 | 27.6 | 22.5 | 21.5 |
| 107.5° | 88.0 | 89.0 | 92.1 | 96.2 | 97.2 | 90.0 | 74.7 | 59.3 | 50.1 | 43.0 | 41.9 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 119.7 | 118.7 | 121.7 | 123.8 | 122.8 | 116.6 | 104.3 | 89.0 | 75.7 | 69.6 | 67.5 |
| 112.5° | 150.4 | 150.4 | 152.4 | 153.4 | 151.4 | 146.3 | 137.1 | 123.8 | 108.4 | 101.3 | 101.3 |
| 115° | 182.1 | 181.1 | 183.1 | 186.2 | 183.1 | 178.0 | 171.9 | 162.6 | 150.4 | 142.2 | 143.2 |
| 117.5° | 213.8 | 212.8 | 214.8 | 219.9 | 215.8 | 209.7 | 206.6 | 201.5 | 193.3 | 188.2 | 188.2 |
| 120° | 248.6 | 248.6 | 250.6 | 255.7 | 251.6 | 248.6 | 242.4 | 238.3 | 231.2 | 228.1 | 230.2 |
| 122.5° | 283.4 | 282.3 | 284.4 | 289.5 | 285.4 | 283.4 | 277.2 | 273.1 | 267.0 | 266.0 | 269.0 |
| 125° | 317.1 | 317.1 | 317.1 | 322.2 | 320.2 | 317.1 | 312.0 | 305.9 | 302.8 | 300.7 | 304.8 |
| 127.5° | 355.0 | 352.9 | 353.9 | 353.9 | 352.9 | 347.8 | 346.8 | 340.6 | 336.6 | 336.6 | 337.6 |
| 130° | 388.7 | 387.7 | 389.7 | 389.7 | 385.7 | 380.5 | 378.5 | 374.4 | 370.3 | 369.3 | 371.3 |
| 132.5° | 424.5 | 423.5 | 423.5 | 425.5 | 420.4 | 414.3 | 413.3 | 410.2 | 402.0 | 403.0 | 405.1 |
| 135° | 461.4 | 460.3 | 457.3 | 458.3 | 453.2 | 447.0 | 445.0 | 441.9 | 435.8 | 435.8 | 438.8 |
| 137.5° | 493.1 | 492.0 | 486.9 | 485.9 | 483.9 | 478.7 | 474.6 | 470.6 | 469.5 | 467.5 | 470.6 |
| 140° | 522.7 | 520.7 | 515.6 | 513.5 | 511.5 | 508.4 | 502.3 | 500.2 | 498.2 | 496.1 | 499.2 |
| 142.5° | 548.3 | 546.3 | 545.2 | 545.2 | 539.1 | 537.0 | 533.0 | 529.9 | 528.9 | 526.8 | 529.9 |
| 145° | 572.9 | 570.8 | 573.9 | 574.9 | 568.8 | 563.6 | 562.6 | 559.6 | 556.5 | 558.5 | 562.6 |
| 147.5° | 598.4 | 596.4 | 599.4 | 598.4 | 593.3 | 588.2 | 587.2 | 587.2 | 584.1 | 585.1 | 588.2 |
| 150° | 624.0 | 619.9 | 616.8 | 613.8 | 610.7 | 606.6 | 606.6 | 606.6 | 606.6 | 605.6 | 608.7 |
| 152.5° | 642.4 | 637.3 | 632.2 | 628.1 | 625.0 | 624.0 | 624.0 | 623.0 | 622.0 | 622.0 | 625.0 |
| 155° | 655.7 | 652.6 | 650.6 | 645.5 | 640.4 | 642.4 | 644.5 | 641.4 | 639.3 | 639.3 | 643.4 |
| 157.5° | 670.0 | 664.9 | 664.9 | 662.9 | 658.8 | 659.8 | 660.8 | 658.8 | 657.8 | 657.8 | 660.8 |
| 160° | 681.3 | 675.1 | 676.2 | 679.2 | 673.1 | 670.0 | 670.0 | 671.1 | 674.1 | 675.1 | 678.2 |
| 162.5° | 689.5 | 683.3 | 685.4 | 686.4 | 682.3 | 678.2 | 676.2 | 680.3 | 684.4 | 684.4 | 688.4 |
| 165° | 697.7 | 693.6 | 695.6 | 692.5 | 687.4 | 688.4 | 688.4 | 691.5 | 691.5 | 693.6 | 696.6 |
| 167.5° | 709.9 | 703.8 | 703.8 | 699.7 | 693.6 | 700.7 | 703.8 | 701.7 | 699.7 | 702.8 | 705.8 |
| 170° | 717.1 | 712.0 | 709.9 | 704.8 | 701.7 | 706.9 | 708.9 | 707.9 | 707.9 | 711.0 | 714.0 |
| 172.5° | 717.1 | 712.0 | 709.9 | 707.9 | 704.8 | 705.8 | 705.8 | 708.9 | 711.0 | 713.0 | 715.0 |
| 175° | 715.0 | 709.9 | 712.0 | 711.0 | 705.8 | 705.8 | 706.9 | 711.0 | 713.0 | 714.0 | 716.1 |
| 177.5° | 718.1 | 714.0 | 717.1 | 715.0 | 709.9 | 711.0 | 713.0 | 715.0 | 716.1 | 721.2 | 723.2 |
| 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |

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