

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-T2-ULG**

Issue Date: 3/30/2022

Test Information

Test Method: LM-79-08
Report Number:
REPORT IS A COMBINATION OF REPORTS P401868 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-T2-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9522.9 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')
IES Classification: Type III - Medium
BUG Rating: B1 - U5 - G2

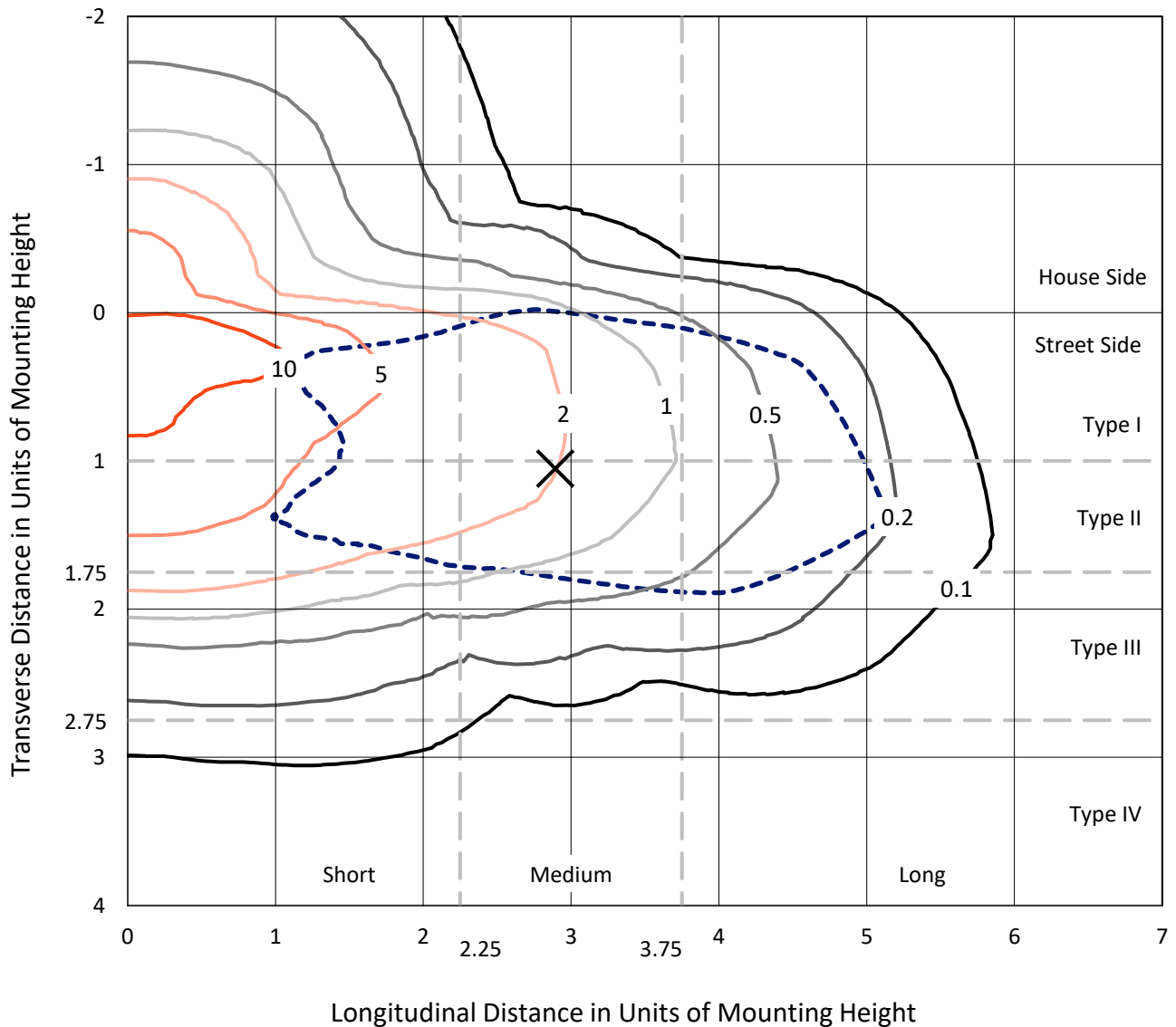
Input Watts (W): 82.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1F-740-U-T2-ULG

Iso-Footcandle Lines of Horizontal Illumination

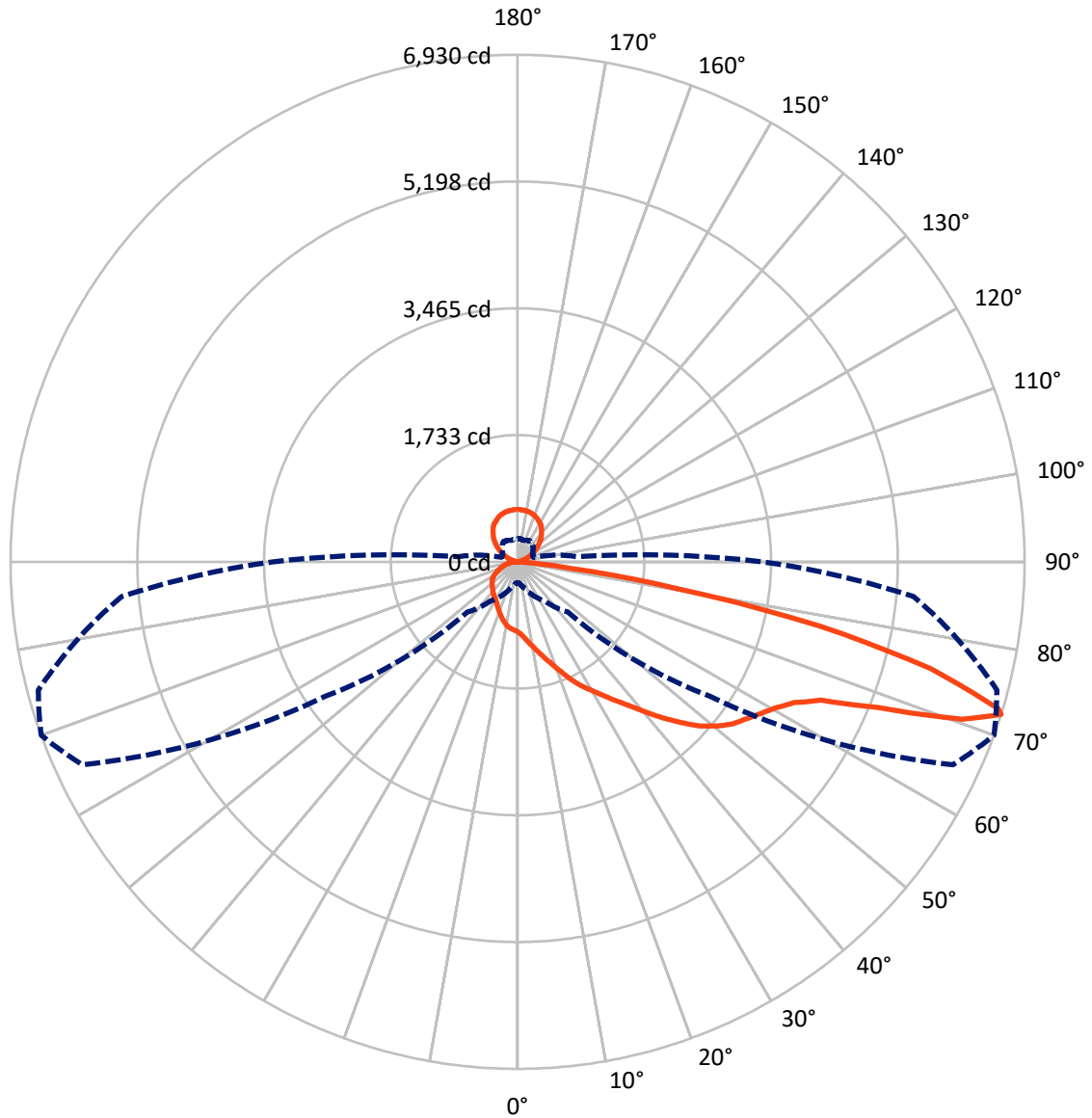
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Medium - N/A

REPORT NUMBER:
CATALOG NUMBER: ENV-SA1F-740-U-T2-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER:
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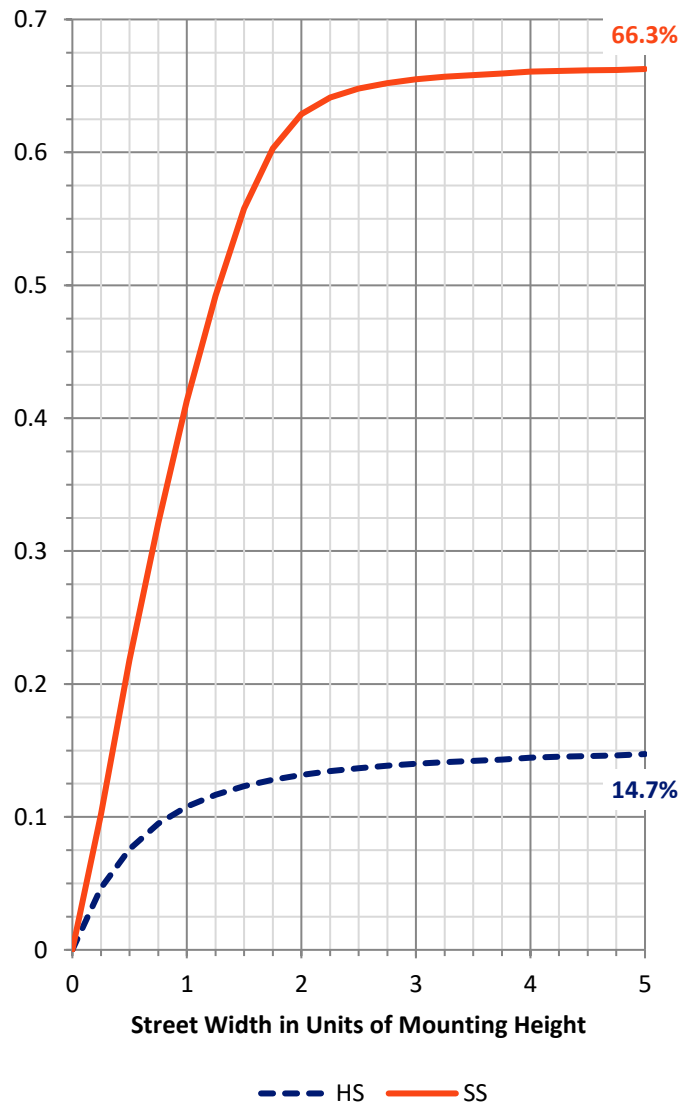
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1439.9 | 887.0 | 2326.8 |
| | % Fixture | 15.1 | 9.3 | 24.4 |
| Street Side | Lumens | 6309.1 | 887.0 | 7196.1 |
| | % Fixture | 66.3 | 9.3 | 75.6 |
| Total | Lumens | 7749.0 | 1773.9 | 9522.9 |
| | % Fixture | 81.4 | 18.6 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.5 | 1.0 |
| 10°-20° | 309.5 | 3.2 |
| 20°-30° | 548.0 | 5.8 |
| 30°-40° | 814.7 | 8.6 |
| 40°-50° | 1182.0 | 12.4 |
| 50°-60° | 1614.8 | 17.0 |
| 60°-70° | 1768.0 | 18.6 |
| 70°-80° | 1257.6 | 13.2 |
| 80°-90° | 157.9 | 1.7 |
| 90°-100° | 8.4 | 0.1 |
| 100°-110° | 58.7 | 0.6 |
| 110°-120° | 169.9 | 1.8 |
| 120°-130° | 279.4 | 2.9 |
| 130°-140° | 344.6 | 3.6 |
| 140°-150° | 352.5 | 3.7 |
| 150°-160° | 297.0 | 3.1 |
| 160°-170° | 195.5 | 2.1 |
| 170°-180° | 67.8 | 0.7 |
| 0°-90° | 7749.0 | 81.4 |
| 0°-180° | 9522.9 | 100.0 |

Coefficient of Utilization

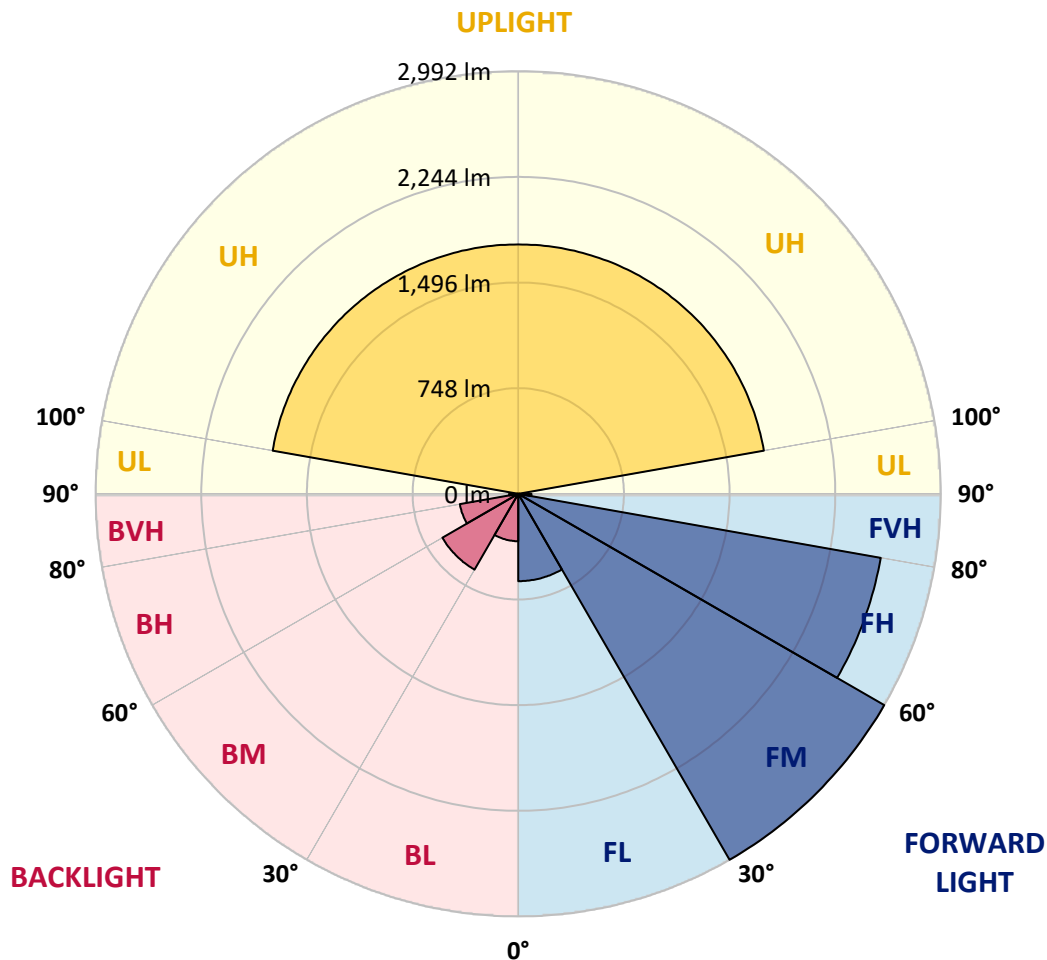


REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1F-740-U-T2-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|---------|
| | | | B | U | G |
| FL (0°-30°) | 618.5 | 6.5 | | | |
| FM (30°-60°) | 2991.6 | 31.4 | | | |
| FH (60°-80°) | 2605.8 | 27.4 | | | G2/5000 |
| FVH (80°-90°) | 93.3 | 1.0 | | | G1/100 |
| BL (0°-30°) | 335.5 | 3.5 | B1/500 | | |
| BM (30°-60°) | 620.0 | 6.5 | B1/1000 | | |
| BH (60°-80°) | 419.8 | 4.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 64.6 | 0.7 | | | G1/100 |
| UL (90°-100°) | 8.4 | 0.1 | | U1/10 | |
| UH (100°-180°) | 1765.5 | 18.5 | | U5 | |

BUG Rating: B1-U5-G2
 Type III Medium





REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1F-740-U-T2-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 |
| 2.5° | 1067.0 | 1061.5 | 1062.6 | 1052.6 | 1047.1 | 1033.8 | 1019.4 | 1003.9 | 996.2 | 990.7 | 971.8 |
| 5° | 1171.1 | 1171.1 | 1175.5 | 1167.8 | 1146.7 | 1124.6 | 1099.1 | 1064.8 | 1050.4 | 1030.5 | 992.9 |
| 7.5° | 1257.4 | 1259.6 | 1259.6 | 1257.4 | 1238.6 | 1214.2 | 1181.0 | 1139.0 | 1115.7 | 1086.9 | 1028.3 |
| 10° | 1301.7 | 1307.2 | 1311.6 | 1315.0 | 1312.8 | 1298.4 | 1260.7 | 1217.6 | 1185.5 | 1147.8 | 1069.2 |
| 12.5° | 1323.8 | 1326.0 | 1333.8 | 1350.4 | 1363.7 | 1374.7 | 1347.1 | 1296.1 | 1264.0 | 1218.7 | 1113.5 |
| 15° | 1348.2 | 1348.2 | 1355.9 | 1376.9 | 1402.4 | 1432.3 | 1429.0 | 1389.1 | 1354.8 | 1298.4 | 1170.0 |
| 17.5° | 1363.7 | 1368.1 | 1382.5 | 1404.6 | 1440.0 | 1489.9 | 1515.3 | 1493.2 | 1448.9 | 1389.1 | 1230.8 |
| 20° | 1354.8 | 1358.1 | 1386.9 | 1430.1 | 1475.5 | 1539.7 | 1603.9 | 1603.9 | 1561.8 | 1493.2 | 1298.4 |
| 22.5° | 1371.4 | 1376.9 | 1396.9 | 1437.8 | 1499.8 | 1582.8 | 1688.0 | 1724.5 | 1688.0 | 1612.7 | 1376.9 |
| 25° | 1435.6 | 1433.4 | 1450.0 | 1466.6 | 1519.7 | 1622.7 | 1759.9 | 1854.0 | 1820.8 | 1737.8 | 1453.3 |
| 27.5° | 1528.6 | 1528.6 | 1537.4 | 1536.3 | 1555.2 | 1655.9 | 1823.0 | 1968.0 | 1940.3 | 1840.7 | 1516.4 |
| 30° | 1636.0 | 1638.2 | 1636.0 | 1634.9 | 1631.5 | 1701.3 | 1879.5 | 2069.9 | 2055.5 | 1957.0 | 1574.0 |
| 32.5° | 1766.6 | 1772.1 | 1763.2 | 1741.1 | 1727.8 | 1766.6 | 1927.1 | 2183.9 | 2188.3 | 2072.1 | 1630.4 |
| 35° | 1930.4 | 1939.2 | 1906.0 | 1873.9 | 1840.7 | 1858.4 | 1982.4 | 2291.2 | 2335.5 | 2202.7 | 1699.0 |
| 37.5° | 2094.2 | 2108.6 | 2103.1 | 2016.7 | 1970.2 | 1969.1 | 2064.3 | 2425.2 | 2499.3 | 2373.1 | 1796.5 |
| 40° | 2232.6 | 2244.7 | 2251.4 | 2172.8 | 2108.6 | 2106.4 | 2185.0 | 2564.6 | 2700.8 | 2569.1 | 1911.6 |
| 42.5° | 2324.4 | 2335.5 | 2355.4 | 2308.9 | 2249.2 | 2276.8 | 2317.8 | 2703.0 | 2917.7 | 2808.1 | 2053.2 |
| 45° | 2424.1 | 2432.9 | 2445.1 | 2418.5 | 2387.5 | 2467.2 | 2486.0 | 2856.8 | 3134.7 | 3064.9 | 2219.3 |
| 47.5° | 2530.3 | 2539.2 | 2545.8 | 2525.9 | 2514.8 | 2626.6 | 2651.0 | 3014.0 | 3353.8 | 3330.6 | 2380.9 |
| 50° | 2647.6 | 2651.0 | 2657.6 | 2647.6 | 2651.0 | 2771.6 | 2787.1 | 3152.4 | 3527.6 | 3607.3 | 2549.1 |
| 52.5° | 2849.1 | 2853.5 | 2855.7 | 2808.1 | 2791.5 | 2863.5 | 2896.7 | 3299.6 | 3680.4 | 3837.5 | 2697.4 |
| 55° | 3008.5 | 3024.0 | 3093.7 | 3062.7 | 3022.9 | 2928.8 | 2987.4 | 3418.0 | 3788.8 | 4052.3 | 2852.4 |
| 57.5° | 2877.9 | 2913.3 | 3087.1 | 3233.2 | 3345.0 | 3120.3 | 3094.8 | 3539.8 | 3913.9 | 4237.1 | 3032.8 |
| 60° | 2498.2 | 2550.2 | 2802.6 | 3107.0 | 3468.9 | 3559.7 | 3315.1 | 3691.4 | 4050.0 | 4429.7 | 3226.5 |
| 62.5° | 1732.3 | 1785.4 | 2134.0 | 2620.0 | 3259.7 | 3811.0 | 3918.3 | 3960.4 | 4239.3 | 4626.7 | 3478.9 |
| 65° | 830.2 | 884.4 | 1172.2 | 1684.7 | 2574.6 | 3649.4 | 4621.2 | 4518.3 | 4558.1 | 4876.9 | 3850.8 |
| 67.5° | 528.0 | 556.8 | 669.7 | 917.6 | 1497.6 | 2842.4 | 4873.6 | 5629.6 | 5313.0 | 5453.6 | 4591.3 |
| 70° | 386.3 | 392.9 | 490.3 | 635.3 | 888.8 | 1660.3 | 4303.5 | 6693.3 | 6445.3 | 6429.8 | 5484.6 |
| 72° | 285.6 | 296.6 | 371.9 | 506.9 | 657.5 | 970.7 | 3202.2 | 6563.8 | 6930.1 | 6782.9 | 5431.4 |
| 72.5° | 269.0 | 277.8 | 343.1 | 479.3 | 621.0 | 852.3 | 2869.0 | 6413.2 | 6870.4 | 6792.9 | 5329.6 |
| 75° | 195.9 | 202.6 | 234.7 | 340.9 | 480.4 | 493.7 | 1531.9 | 4922.3 | 5834.3 | 6485.2 | 4831.5 |
| 77.5° | 135.0 | 139.5 | 156.1 | 209.2 | 328.7 | 334.3 | 649.7 | 3360.5 | 4210.5 | 5185.7 | 3715.8 |
| 80° | 81.9 | 84.1 | 94.1 | 114.0 | 209.2 | 198.1 | 267.9 | 1756.6 | 2197.1 | 2819.2 | 1723.4 |
| 82.5° | 34.3 | 35.4 | 41.0 | 45.4 | 88.5 | 94.1 | 108.5 | 573.4 | 727.2 | 881.1 | 497.0 |
| 85° | 0.0 | 0.0 | 1.1 | 1.1 | 2.2 | 10.0 | 15.5 | 70.8 | 107.4 | 128.4 | 89.7 |
| 87.5° | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 3.3 | 4.4 | 4.4 | 6.6 |
| 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 | 7.2 | 7.2 | 6.6 | 6.1 | 6.1 |
| 95° | 5.1 | 5.1 | 6.1 | 7.2 | 7.2 | 7.2 | 7.2 | 8.2 | 7.7 | 7.2 | 7.2 |
| 97.5° | 7.2 | 7.2 | 8.2 | 8.2 | 9.2 | 9.2 | 12.3 | 10.2 | 9.7 | 9.2 | 8.2 |
| 100° | 8.2 | 8.2 | 9.2 | 10.2 | 12.3 | 21.5 | 29.7 | 26.6 | 25.1 | 23.5 | 19.4 |
| 102.5° | 11.3 | 11.3 | 13.3 | 18.4 | 27.6 | 40.9 | 51.1 | 48.1 | 45.5 | 43.0 | 39.9 |
| 105° | 21.5 | 22.5 | 27.6 | 36.8 | 49.1 | 64.4 | 73.7 | 71.6 | 69.0 | 66.5 | 62.4 |
| 107.5° | 41.9 | 43.0 | 50.1 | 59.3 | 74.7 | 90.0 | 97.2 | 96.2 | 94.1 | 92.1 | 89.0 |



REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1F-740-U-T2-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 67.5 | 69.6 | 75.7 | 89.0 | 104.3 | 116.6 | 122.8 | 123.8 | 122.8 | 121.7 | 118.7 |
| 112.5° | 101.3 | 101.3 | 108.4 | 123.8 | 137.1 | 146.3 | 151.4 | 153.4 | 152.9 | 152.4 | 150.4 |
| 115° | 143.2 | 142.2 | 150.4 | 162.6 | 171.9 | 178.0 | 183.1 | 186.2 | 184.6 | 183.1 | 181.1 |
| 117.5° | 188.2 | 188.2 | 193.3 | 201.5 | 206.6 | 209.7 | 215.8 | 219.9 | 217.4 | 214.8 | 212.8 |
| 120° | 230.2 | 228.1 | 231.2 | 238.3 | 242.4 | 248.6 | 251.6 | 255.7 | 253.2 | 250.6 | 248.6 |
| 122.5° | 269.0 | 266.0 | 267.0 | 273.1 | 277.2 | 283.4 | 285.4 | 289.5 | 286.9 | 284.4 | 282.3 |
| 125° | 304.8 | 300.7 | 302.8 | 305.9 | 312.0 | 317.1 | 320.2 | 322.2 | 319.7 | 317.1 | 317.1 |
| 127.5° | 337.6 | 336.6 | 336.6 | 340.6 | 346.8 | 347.8 | 352.9 | 353.9 | 353.9 | 353.9 | 352.9 |
| 130° | 371.3 | 369.3 | 370.3 | 374.4 | 378.5 | 380.5 | 385.7 | 389.7 | 389.7 | 389.7 | 387.7 |
| 132.5° | 405.1 | 403.0 | 402.0 | 410.2 | 413.3 | 414.3 | 420.4 | 425.5 | 424.5 | 423.5 | 423.5 |
| 135° | 438.8 | 435.8 | 435.8 | 441.9 | 445.0 | 447.0 | 453.2 | 458.3 | 457.8 | 457.3 | 460.3 |
| 137.5° | 470.6 | 467.5 | 469.5 | 470.6 | 474.6 | 478.7 | 483.9 | 485.9 | 486.4 | 486.9 | 492.0 |
| 140° | 499.2 | 496.1 | 498.2 | 500.2 | 502.3 | 508.4 | 511.5 | 513.5 | 514.5 | 515.6 | 520.7 |
| 142.5° | 529.9 | 526.8 | 528.9 | 529.9 | 533.0 | 537.0 | 539.1 | 545.2 | 545.2 | 545.2 | 546.3 |
| 145° | 562.6 | 558.5 | 556.5 | 559.6 | 562.6 | 563.6 | 568.8 | 574.9 | 574.4 | 573.9 | 570.8 |
| 147.5° | 588.2 | 585.1 | 584.1 | 587.2 | 587.2 | 588.2 | 593.3 | 598.4 | 598.9 | 599.4 | 596.4 |
| 150° | 608.7 | 605.6 | 606.6 | 606.6 | 606.6 | 606.6 | 610.7 | 613.8 | 615.3 | 616.8 | 619.9 |
| 152.5° | 625.0 | 622.0 | 622.0 | 623.0 | 624.0 | 624.0 | 625.0 | 628.1 | 630.1 | 632.2 | 637.3 |
| 155° | 643.4 | 639.3 | 639.3 | 641.4 | 644.5 | 642.4 | 640.4 | 645.5 | 648.0 | 650.6 | 652.6 |
| 157.5° | 660.8 | 657.8 | 657.8 | 658.8 | 660.8 | 659.8 | 658.8 | 662.9 | 663.9 | 664.9 | 664.9 |
| 160° | 678.2 | 675.1 | 674.1 | 671.1 | 670.0 | 670.0 | 673.1 | 679.2 | 677.7 | 676.2 | 675.1 |
| 162.5° | 688.4 | 684.4 | 684.4 | 680.3 | 676.2 | 678.2 | 682.3 | 686.4 | 685.9 | 685.4 | 683.3 |
| 165° | 696.6 | 693.6 | 691.5 | 691.5 | 688.4 | 688.4 | 687.4 | 692.5 | 694.1 | 695.6 | 693.6 |
| 167.5° | 705.8 | 702.8 | 699.7 | 701.7 | 703.8 | 700.7 | 693.6 | 699.7 | 701.7 | 703.8 | 703.8 |
| 170° | 714.0 | 711.0 | 707.9 | 707.9 | 708.9 | 706.9 | 701.7 | 704.8 | 707.4 | 709.9 | 712.0 |
| 172.5° | 715.0 | 713.0 | 711.0 | 708.9 | 705.8 | 705.8 | 704.8 | 707.9 | 708.9 | 709.9 | 712.0 |
| 175° | 716.1 | 714.0 | 713.0 | 711.0 | 706.9 | 705.8 | 705.8 | 711.0 | 711.5 | 712.0 | 709.9 |
| 177.5° | 723.2 | 721.2 | 716.1 | 715.0 | 713.0 | 711.0 | 709.9 | 715.0 | 716.1 | 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-T2-ULG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 |
| 2.5° | 963.0 | 958.6 | 945.3 | 934.2 | 925.3 | 911.0 | 909.8 | 898.8 | 898.8 | 895.5 | 893.2 |
| 5° | 978.5 | 964.1 | 937.5 | 913.2 | 895.5 | 874.4 | 864.5 | 852.3 | 844.5 | 840.1 | 841.2 |
| 7.5° | 998.4 | 974.0 | 928.7 | 887.7 | 854.5 | 827.9 | 812.4 | 802.5 | 796.9 | 794.7 | 794.7 |
| 10° | 1026.1 | 988.4 | 914.3 | 852.3 | 810.2 | 790.3 | 782.6 | 781.5 | 782.6 | 783.7 | 784.8 |
| 12.5° | 1057.1 | 998.4 | 887.7 | 810.2 | 777.0 | 769.3 | 773.7 | 783.7 | 792.5 | 795.8 | 795.8 |
| 15° | 1089.2 | 1005.0 | 851.2 | 771.5 | 751.6 | 759.3 | 774.8 | 793.6 | 808.0 | 816.9 | 819.1 |
| 17.5° | 1122.4 | 1006.1 | 812.4 | 736.1 | 729.4 | 749.4 | 777.0 | 806.9 | 830.2 | 844.5 | 846.8 |
| 20° | 1157.8 | 1003.9 | 767.1 | 704.0 | 707.3 | 740.5 | 779.2 | 820.2 | 851.2 | 870.0 | 872.2 |
| 22.5° | 1196.5 | 995.1 | 722.8 | 673.0 | 688.5 | 731.6 | 777.0 | 824.6 | 857.8 | 880.0 | 884.4 |
| 25° | 1234.2 | 977.4 | 678.5 | 645.3 | 675.2 | 722.8 | 766.0 | 806.9 | 839.0 | 860.0 | 865.6 |
| 27.5° | 1254.1 | 939.7 | 636.5 | 624.3 | 665.2 | 709.5 | 740.5 | 768.2 | 785.9 | 799.2 | 804.7 |
| 30° | 1257.4 | 886.6 | 602.1 | 609.9 | 654.2 | 690.7 | 708.4 | 712.8 | 709.5 | 713.9 | 708.4 |
| 32.5° | 1250.8 | 829.0 | 574.5 | 598.8 | 636.5 | 664.1 | 668.6 | 655.3 | 635.3 | 607.7 | 608.8 |
| 35° | 1246.3 | 766.0 | 552.3 | 583.3 | 613.2 | 630.9 | 623.2 | 602.1 | 564.5 | 531.3 | 529.1 |
| 37.5° | 1254.1 | 708.4 | 533.5 | 563.4 | 583.3 | 591.1 | 580.0 | 552.3 | 519.1 | 490.3 | 487.0 |
| 40° | 1276.2 | 666.3 | 515.8 | 541.3 | 551.2 | 556.8 | 543.5 | 519.1 | 505.8 | 484.8 | 481.5 |
| 42.5° | 1319.4 | 637.6 | 499.2 | 516.9 | 521.3 | 526.9 | 513.6 | 497.0 | 509.2 | 504.7 | 504.7 |
| 45° | 1379.2 | 624.3 | 484.8 | 493.7 | 498.1 | 506.9 | 499.2 | 484.8 | 498.1 | 472.6 | 468.2 |
| 47.5° | 1456.6 | 628.7 | 474.8 | 470.4 | 483.7 | 499.2 | 490.3 | 472.6 | 468.2 | 422.8 | 415.1 |
| 50° | 1538.6 | 651.9 | 464.9 | 451.6 | 468.2 | 489.2 | 478.2 | 450.5 | 423.9 | 400.7 | 396.3 |
| 52.5° | 1634.9 | 690.7 | 456.0 | 430.6 | 450.5 | 478.2 | 470.4 | 440.5 | 412.9 | 396.3 | 392.9 |
| 55° | 1741.1 | 728.3 | 445.0 | 406.2 | 427.3 | 474.8 | 472.6 | 433.9 | 397.4 | 389.6 | 387.4 |
| 57.5° | 1860.7 | 759.3 | 431.7 | 378.6 | 404.0 | 464.9 | 462.7 | 418.4 | 392.9 | 386.3 | 385.2 |
| 60° | 2010.1 | 795.8 | 408.4 | 346.5 | 380.8 | 446.1 | 443.9 | 410.6 | 383.0 | 377.4 | 375.2 |
| 62.5° | 2213.7 | 863.4 | 368.6 | 316.6 | 356.4 | 412.9 | 426.1 | 395.2 | 368.6 | 367.5 | 367.5 |
| 65° | 2549.1 | 994.0 | 327.6 | 291.1 | 328.7 | 380.8 | 402.9 | 377.4 | 355.3 | 360.8 | 360.8 |
| 67.5° | 3183.4 | 1170.0 | 285.6 | 266.8 | 302.2 | 349.8 | 383.0 | 359.7 | 340.9 | 352.0 | 352.0 |
| 70° | 3672.6 | 1104.7 | 252.4 | 243.5 | 275.6 | 322.1 | 357.5 | 340.9 | 323.2 | 342.0 | 339.8 |
| 72° | 3350.5 | 809.1 | 230.2 | 224.7 | 253.5 | 298.9 | 335.4 | 323.2 | 304.4 | 319.9 | 315.5 |
| 72.5° | 3216.6 | 735.0 | 223.6 | 219.2 | 246.8 | 294.4 | 331.0 | 318.8 | 298.9 | 314.4 | 307.7 |
| 75° | 2805.9 | 619.8 | 194.8 | 192.6 | 219.2 | 264.5 | 302.2 | 295.5 | 275.6 | 284.5 | 277.8 |
| 77.5° | 2322.2 | 522.4 | 163.8 | 168.2 | 187.1 | 235.8 | 272.3 | 265.6 | 246.8 | 245.7 | 244.6 |
| 80° | 1089.2 | 291.1 | 135.0 | 138.4 | 157.2 | 201.5 | 234.7 | 230.2 | 212.5 | 210.3 | 207.0 |
| 82.5° | 315.5 | 139.5 | 104.0 | 106.3 | 126.2 | 164.9 | 201.5 | 199.2 | 186.0 | 182.6 | 174.9 |
| 85° | 58.7 | 45.4 | 56.5 | 66.4 | 91.9 | 137.3 | 183.7 | 179.3 | 159.4 | 145.0 | 133.9 |
| 87.5° | 3.3 | 8.9 | 18.8 | 32.1 | 58.7 | 102.9 | 148.3 | 145.0 | 127.3 | 109.6 | 110.7 |
| 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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| 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 |
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| 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 |
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| 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 |
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