

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: **ENT-SA1C-740-U-T4W-ULG**

Issue Date: 3/30/2022

Test Information

Test Method: LM-79-08
Report Number: REPORT IS A COMBINATION OF REPORTS P401340 AND P226775
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-740-U-T4W-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6284.9 lumens
Efficiency: N/A
Efficacy: 125.7 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 - G1

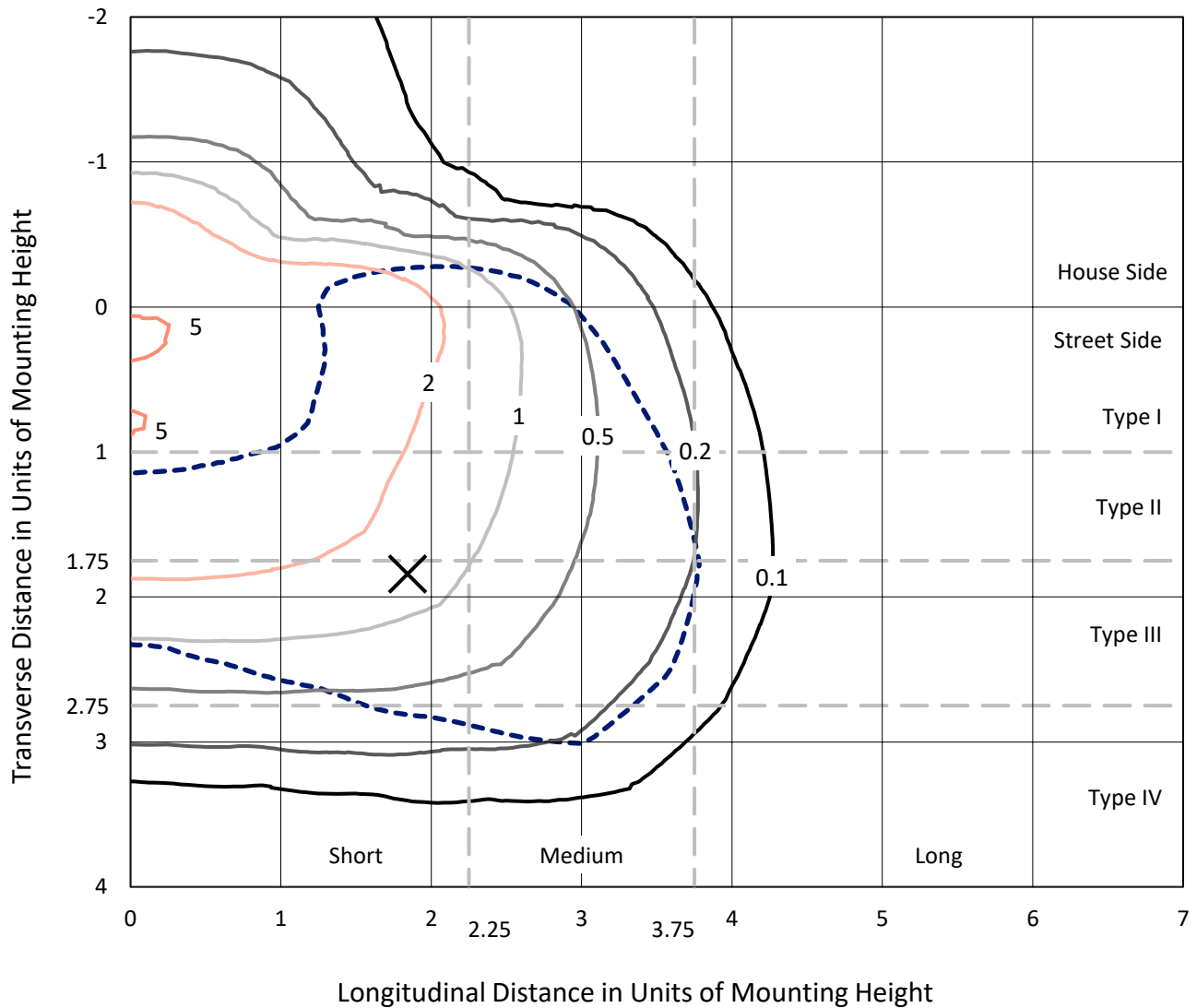
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER:
 CATALOG NUMBER: ENT-SA1C-740-U-T4W-ULG

Iso-Footcandle Lines of Horizontal Illumination

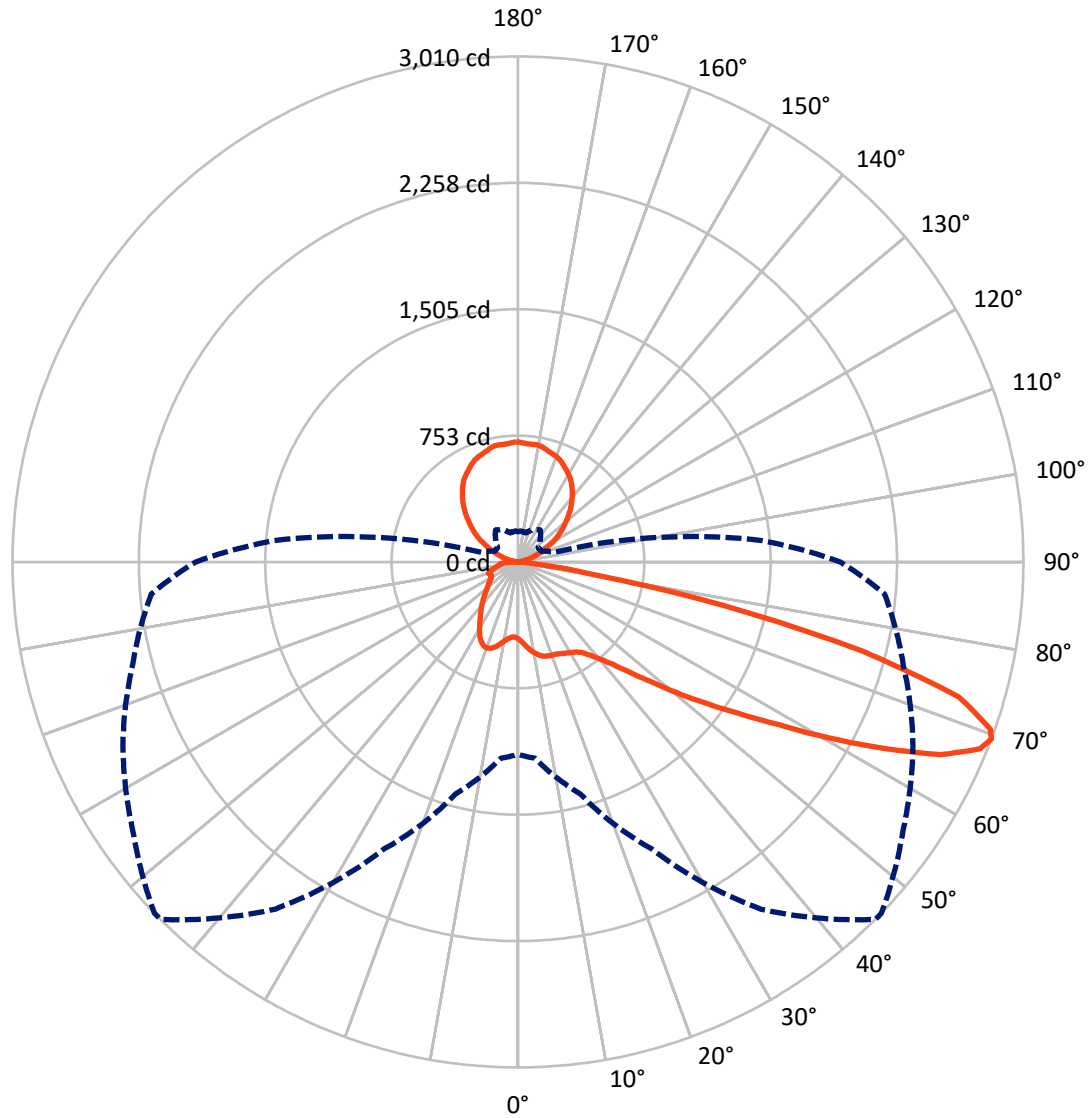
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

REPORT NUMBER:
CATALOG NUMBER: ENT-SA1C-740-U-T4W-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER:
 CATALOG NUMBER: ENT-SA1C-740-U-T4W-ULG

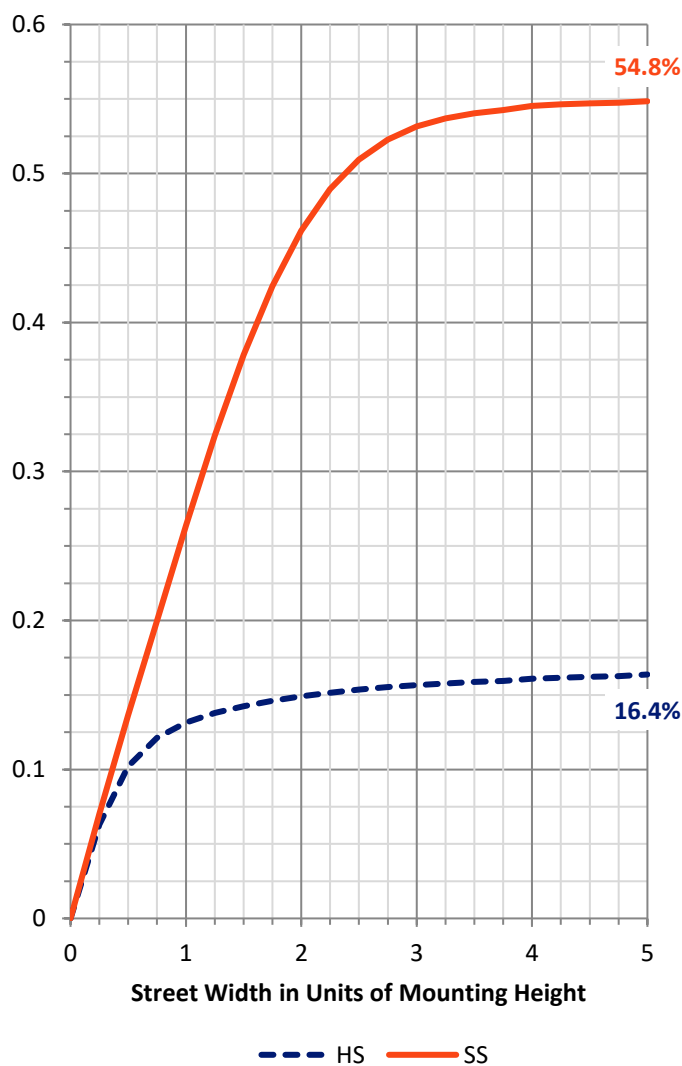
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1062.1 | 887.0 | 1949.0 |
| | % Fixture | 16.9 | 14.1 | 31.0 |
| Street Side | Lumens | 3448.9 | 887.0 | 4335.9 |
| | % Fixture | 54.9 | 14.1 | 69.0 |
| Total | Lumens | 4511.0 | 1773.9 | 6284.9 |
| | % Fixture | 71.8 | 28.2 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.6 | 0.7 |
| 10°-20° | 154.6 | 2.5 |
| 20°-30° | 261.2 | 4.2 |
| 30°-40° | 378.0 | 6.0 |
| 40°-50° | 570.7 | 9.1 |
| 50°-60° | 962.4 | 15.3 |
| 60°-70° | 1323.9 | 21.1 |
| 70°-80° | 733.7 | 11.7 |
| 80°-90° | 79.9 | 1.3 |
| 90°-100° | 8.4 | 0.1 |
| 100°-110° | 58.7 | 0.9 |
| 110°-120° | 169.9 | 2.7 |
| 120°-130° | 279.4 | 4.4 |
| 130°-140° | 344.6 | 5.5 |
| 140°-150° | 352.5 | 5.6 |
| 150°-160° | 297.0 | 4.7 |
| 160°-170° | 195.5 | 3.1 |
| 170°-180° | 67.8 | 1.1 |
| 0°-90° | 4511.0 | 71.8 |
| 0°-180° | 6284.9 | 100.0 |

Coefficient of Utilization



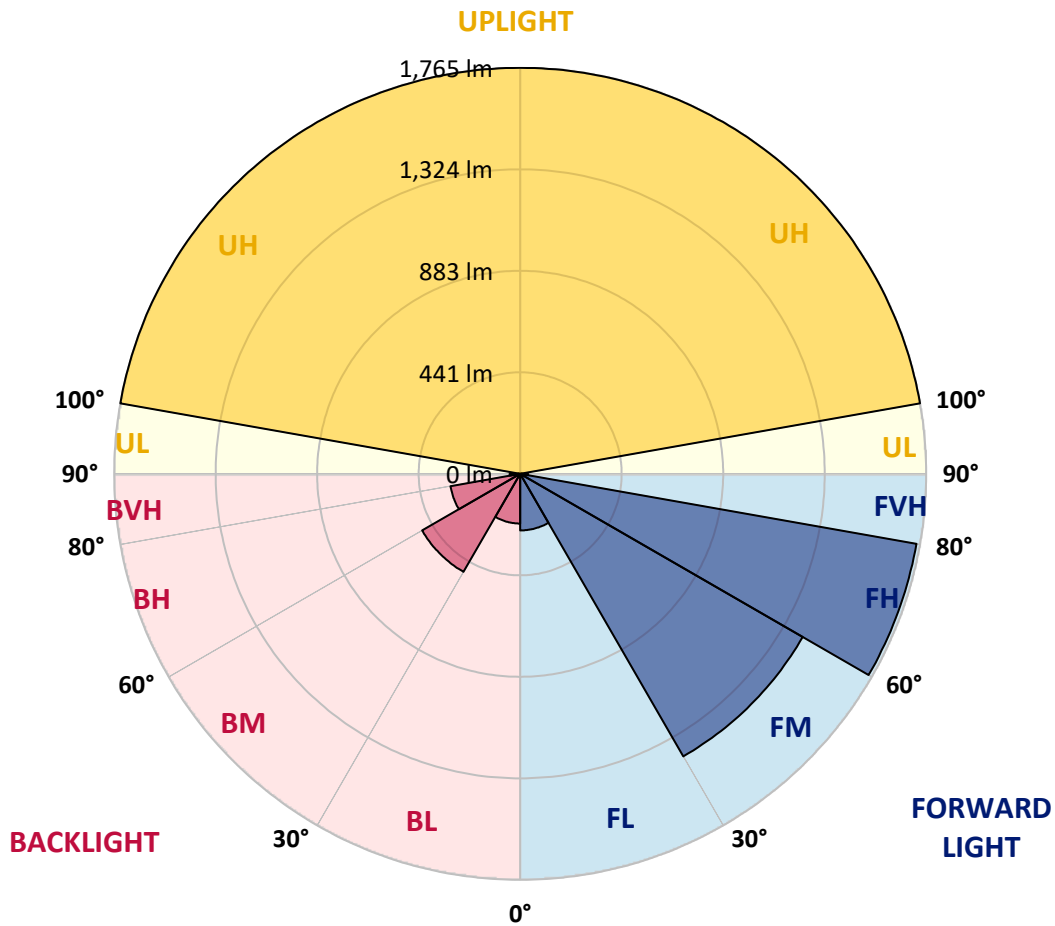
REPORT NUMBER:
 CATALOG NUMBER: ENT-SA1C-740-U-T4W-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|---------|
| | | | B | U | G |
| FL (0°-30°) | 246.2 | 3.9 | | | |
| FM (30°-60°) | 1418.8 | 22.6 | | | |
| FH (60°-80°) | 1749.8 | 27.8 | | | G1/1800 |
| FVH (80°-90°) | 34.2 | 0.5 | | | G1/100 |
| BL (0°-30°) | 216.2 | 3.4 | B1/500 | | |
| BM (30°-60°) | 492.3 | 7.8 | B1/1000 | | |
| BH (60°-80°) | 307.8 | 4.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 45.7 | 0.7 | | | G1/100 |
| UL (90°-100°) | 8.4 | 0.1 | | U1/10 | |
| UH (100°-180°) | 1765.5 | 28.1 | | U5 | |

BUG Rating: B1-U5-G1

Type IV Short





REPORT NUMBER:

CATALOG NUMBER: ENT-SA1C-740-U-T4W-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 |
| 2.5° | 486.7 | 486.1 | 486.7 | 484.2 | 481.6 | 477.8 | 476.5 | 472.0 | 468.8 | 464.3 | 460.4 |
| 5° | 522.6 | 524.6 | 523.9 | 520.7 | 510.5 | 502.8 | 502.8 | 493.1 | 482.9 | 473.3 | 464.3 |
| 7.5° | 561.8 | 561.8 | 557.9 | 551.5 | 541.2 | 529.7 | 528.4 | 515.6 | 500.8 | 487.4 | 473.3 |
| 10° | 590.0 | 591.3 | 585.5 | 576.5 | 563.7 | 551.5 | 550.2 | 535.5 | 521.4 | 504.0 | 486.7 |
| 12.5° | 609.9 | 609.9 | 604.7 | 596.4 | 581.0 | 569.5 | 568.2 | 554.7 | 540.0 | 522.0 | 502.1 |
| 15° | 620.1 | 618.8 | 614.4 | 605.4 | 591.9 | 582.3 | 580.4 | 568.8 | 556.6 | 538.7 | 517.5 |
| 17.5° | 618.2 | 618.2 | 614.4 | 605.4 | 595.8 | 588.1 | 586.8 | 578.4 | 569.5 | 552.1 | 531.0 |
| 20° | 609.9 | 609.2 | 607.9 | 600.9 | 594.5 | 591.3 | 590.0 | 586.1 | 580.4 | 565.6 | 545.7 |
| 22.5° | 602.2 | 601.5 | 599.6 | 595.1 | 592.5 | 594.5 | 594.5 | 593.8 | 593.2 | 581.6 | 562.4 |
| 25° | 606.7 | 606.0 | 602.2 | 595.8 | 595.1 | 604.1 | 604.7 | 606.7 | 607.9 | 598.3 | 578.4 |
| 27.5° | 638.1 | 636.2 | 625.3 | 608.6 | 602.8 | 614.4 | 615.6 | 621.4 | 620.1 | 609.9 | 592.5 |
| 30° | 699.6 | 700.3 | 675.9 | 640.0 | 620.8 | 625.9 | 626.5 | 632.9 | 631.0 | 622.7 | 608.6 |
| 32.5° | 792.6 | 792.6 | 752.9 | 698.4 | 649.6 | 639.4 | 637.4 | 643.2 | 650.9 | 640.0 | 625.9 |
| 35° | 910.6 | 907.4 | 859.3 | 775.3 | 699.0 | 662.4 | 661.2 | 658.6 | 672.1 | 661.8 | 641.3 |
| 37.5° | 1029.3 | 1017.7 | 970.9 | 878.6 | 768.3 | 707.3 | 702.2 | 694.5 | 702.2 | 680.4 | 662.4 |
| 40° | 1124.8 | 1122.9 | 1084.4 | 990.8 | 850.3 | 761.8 | 758.0 | 724.0 | 729.1 | 711.8 | 704.8 |
| 42.5° | 1230.0 | 1231.3 | 1205.6 | 1111.3 | 948.5 | 835.6 | 825.3 | 772.7 | 787.5 | 781.1 | 777.9 |
| 45° | 1345.4 | 1344.1 | 1324.9 | 1226.1 | 1068.4 | 938.2 | 925.4 | 860.6 | 890.7 | 886.9 | 904.9 |
| 47.5° | 1433.9 | 1441.0 | 1430.1 | 1360.2 | 1210.7 | 1062.6 | 1053.0 | 974.1 | 1019.6 | 1050.4 | 1084.4 |
| 50° | 1554.5 | 1553.8 | 1524.3 | 1495.5 | 1376.2 | 1221.6 | 1212.0 | 1124.2 | 1189.6 | 1234.5 | 1296.7 |
| 52.5° | 1703.9 | 1698.8 | 1637.8 | 1627.6 | 1577.6 | 1395.4 | 1387.1 | 1295.4 | 1389.0 | 1428.1 | 1554.5 |
| 55° | 1797.5 | 1796.9 | 1765.5 | 1783.4 | 1784.7 | 1589.1 | 1578.8 | 1497.4 | 1603.2 | 1648.1 | 1839.2 |
| 57.5° | 1875.8 | 1876.4 | 1902.7 | 1965.5 | 2007.9 | 1824.5 | 1820.6 | 1721.2 | 1828.3 | 1891.1 | 2116.9 |
| 60° | 1936.0 | 1948.9 | 2022.6 | 2166.3 | 2236.8 | 2124.6 | 2107.9 | 2002.7 | 2074.6 | 2099.6 | 2329.1 |
| 62.5° | 1911.7 | 1928.3 | 2073.3 | 2284.9 | 2466.4 | 2442.7 | 2436.9 | 2284.9 | 2284.3 | 2271.4 | 2487.5 |
| 65° | 1719.3 | 1755.2 | 1983.5 | 2280.4 | 2617.7 | 2765.9 | 2757.5 | 2551.0 | 2479.2 | 2415.1 | 2535.0 |
| 67.5° | 1407.0 | 1414.7 | 1689.8 | 2106.0 | 2616.4 | 2969.1 | 2960.2 | 2744.7 | 2600.4 | 2443.3 | 2395.8 |
| 69° | 1145.3 | 1173.6 | 1428.1 | 1885.4 | 2524.1 | 3010.2 | 3010.2 | 2798.6 | 2595.9 | 2376.0 | 2191.9 |
| 70° | 990.8 | 992.1 | 1237.7 | 1709.7 | 2398.4 | 2985.8 | 2991.6 | 2798.6 | 2559.4 | 2288.1 | 2011.1 |
| 72.5° | 464.3 | 493.1 | 648.3 | 1115.8 | 1937.3 | 2744.7 | 2758.8 | 2613.9 | 2347.1 | 1971.3 | 1508.9 |
| 75° | 139.2 | 144.3 | 216.1 | 529.1 | 1110.1 | 2114.3 | 2145.7 | 2174.6 | 1911.7 | 1451.2 | 929.2 |
| 77.5° | 82.7 | 82.1 | 104.5 | 179.6 | 513.7 | 1253.7 | 1267.8 | 1390.9 | 1240.2 | 806.7 | 422.0 |
| 80° | 40.4 | 41.7 | 55.8 | 87.2 | 192.4 | 455.3 | 500.8 | 650.3 | 549.6 | 315.5 | 154.5 |
| 82.5° | 13.5 | 14.7 | 23.1 | 35.3 | 81.4 | 146.9 | 162.2 | 203.9 | 175.7 | 114.8 | 66.1 |
| 85° | 0.0 | 0.0 | 0.6 | 1.3 | 4.5 | 10.9 | 10.9 | 24.4 | 36.6 | 40.4 | 21.8 |
| 87.5° | 0.0 | 0.0 | 0.6 | 0.6 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.9 |
| 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 | 6.2 | 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 | 9.2 | 9.2 | 9.5 | 12.3 | 10.2 | 9.2 | 8.2 |
| 100° | 8.2 | 8.2 | 9.2 | 10.2 | 12.3 | 21.5 | 22.3 | 29.7 | 26.6 | 23.5 | 19.4 |
| 102.5° | 11.3 | 11.3 | 13.3 | 18.4 | 27.6 | 40.9 | 41.9 | 51.1 | 48.1 | 43.0 | 39.9 |
| 105° | 21.5 | 22.5 | 27.6 | 36.8 | 49.1 | 64.4 | 65.3 | 73.7 | 71.6 | 66.5 | 62.4 |
| 107.5° | 41.9 | 43.0 | 50.1 | 59.3 | 74.7 | 90.0 | 90.7 | 97.2 | 96.2 | 92.1 | 89.0 |



REPORT NUMBER:
 CATALOG NUMBER: ENT-SA1C-740-U-T4W-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 67.5 | 69.6 | 75.7 | 89.0 | 104.3 | 116.6 | 117.2 | 122.8 | 123.8 | 121.7 | 118.7 |
| 112.5° | 101.3 | 101.3 | 108.4 | 123.8 | 137.1 | 146.3 | 146.8 | 151.4 | 153.4 | 152.4 | 150.4 |
| 115° | 143.2 | 142.2 | 150.4 | 162.6 | 171.9 | 178.0 | 178.5 | 183.1 | 186.2 | 183.1 | 181.1 |
| 117.5° | 188.2 | 188.2 | 193.3 | 201.5 | 206.6 | 209.7 | 210.3 | 215.8 | 219.9 | 214.8 | 212.8 |
| 120° | 230.2 | 228.1 | 231.2 | 238.3 | 242.4 | 248.6 | 248.9 | 251.6 | 255.7 | 250.6 | 248.6 |
| 122.5° | 269.0 | 266.0 | 267.0 | 273.1 | 277.2 | 283.4 | 283.6 | 285.4 | 289.5 | 284.4 | 282.3 |
| 125° | 304.8 | 300.7 | 302.8 | 305.9 | 312.0 | 317.1 | 317.4 | 320.2 | 322.2 | 317.1 | 317.1 |
| 127.5° | 337.6 | 336.6 | 336.6 | 340.6 | 346.8 | 347.8 | 348.3 | 352.9 | 353.9 | 353.9 | 352.9 |
| 130° | 371.3 | 369.3 | 370.3 | 374.4 | 378.5 | 380.5 | 381.0 | 385.7 | 389.7 | 389.7 | 387.7 |
| 132.5° | 405.1 | 403.0 | 402.0 | 410.2 | 413.3 | 414.3 | 414.9 | 420.4 | 425.5 | 423.5 | 423.5 |
| 135° | 438.8 | 435.8 | 435.8 | 441.9 | 445.0 | 447.0 | 447.6 | 453.2 | 458.3 | 457.3 | 460.3 |
| 137.5° | 470.6 | 467.5 | 469.5 | 470.6 | 474.6 | 478.7 | 479.2 | 483.9 | 485.9 | 486.9 | 492.0 |
| 140° | 499.2 | 496.1 | 498.2 | 500.2 | 502.3 | 508.4 | 508.7 | 511.5 | 513.5 | 515.6 | 520.7 |
| 142.5° | 529.9 | 526.8 | 528.9 | 529.9 | 533.0 | 537.0 | 537.2 | 539.1 | 545.2 | 545.2 | 546.3 |
| 145° | 562.6 | 558.5 | 556.5 | 559.6 | 562.6 | 563.6 | 564.1 | 568.8 | 574.9 | 573.9 | 570.8 |
| 147.5° | 588.2 | 585.1 | 584.1 | 587.2 | 587.2 | 588.2 | 588.7 | 593.3 | 598.4 | 599.4 | 596.4 |
| 150° | 608.7 | 605.6 | 606.6 | 606.6 | 606.6 | 606.6 | 607.0 | 610.7 | 613.8 | 616.8 | 619.9 |
| 152.5° | 625.0 | 622.0 | 622.0 | 623.0 | 624.0 | 624.0 | 624.1 | 625.0 | 628.1 | 632.2 | 637.3 |
| 155° | 643.4 | 639.3 | 639.3 | 641.4 | 644.5 | 642.4 | 642.2 | 640.4 | 645.5 | 650.6 | 652.6 |
| 157.5° | 660.8 | 657.8 | 657.8 | 658.8 | 660.8 | 659.8 | 659.7 | 658.8 | 662.9 | 664.9 | 664.9 |
| 160° | 678.2 | 675.1 | 674.1 | 671.1 | 670.0 | 670.0 | 670.3 | 673.1 | 679.2 | 676.2 | 675.1 |
| 162.5° | 688.4 | 684.4 | 684.4 | 680.3 | 676.2 | 678.2 | 678.6 | 682.3 | 686.4 | 685.4 | 683.3 |
| 165° | 696.6 | 693.6 | 691.5 | 691.5 | 688.4 | 688.4 | 688.3 | 687.4 | 692.5 | 695.6 | 693.6 |
| 167.5° | 705.8 | 702.8 | 699.7 | 701.7 | 703.8 | 700.7 | 700.0 | 693.6 | 699.7 | 703.8 | 703.8 |
| 170° | 714.0 | 711.0 | 707.9 | 707.9 | 708.9 | 706.9 | 706.4 | 701.7 | 704.8 | 709.9 | 712.0 |
| 172.5° | 715.0 | 713.0 | 711.0 | 708.9 | 705.8 | 705.8 | 705.7 | 704.8 | 707.9 | 709.9 | 712.0 |
| 175° | 716.1 | 714.0 | 713.0 | 711.0 | 706.9 | 705.8 | 705.8 | 705.8 | 711.0 | 712.0 | 709.9 |
| 177.5° | 723.2 | 721.2 | 716.1 | 715.0 | 713.0 | 711.0 | 710.9 | 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: ENT-SA1C-740-U-T4W-ULG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 | 457.9 |
| 2.5° | 458.5 | 457.2 | 454.7 | 452.1 | 450.8 | 447.6 | 448.3 | 447.0 | 446.3 | 446.3 | 447.0 |
| 5° | 459.8 | 457.9 | 454.0 | 451.5 | 448.9 | 447.6 | 450.8 | 452.1 | 453.4 | 453.4 | 454.0 |
| 7.5° | 467.5 | 463.6 | 459.2 | 456.0 | 456.6 | 458.5 | 463.6 | 467.5 | 469.4 | 470.7 | 472.0 |
| 10° | 480.3 | 475.8 | 469.4 | 468.8 | 470.1 | 475.2 | 482.2 | 488.0 | 493.1 | 496.4 | 496.4 |
| 12.5° | 493.8 | 488.0 | 482.9 | 484.2 | 489.9 | 497.6 | 504.7 | 511.1 | 515.6 | 518.8 | 519.4 |
| 15° | 508.5 | 502.8 | 497.6 | 500.8 | 510.5 | 519.4 | 525.9 | 528.4 | 530.3 | 533.5 | 534.2 |
| 17.5° | 522.0 | 516.9 | 512.4 | 520.7 | 529.1 | 536.1 | 538.0 | 536.8 | 534.2 | 536.1 | 537.4 |
| 20° | 536.1 | 531.6 | 529.1 | 538.0 | 543.8 | 544.5 | 539.3 | 533.5 | 527.1 | 527.1 | 527.8 |
| 22.5° | 553.4 | 547.7 | 546.4 | 550.9 | 548.9 | 541.2 | 528.4 | 519.4 | 510.5 | 509.2 | 511.1 |
| 25° | 570.1 | 564.3 | 563.7 | 560.5 | 543.8 | 523.9 | 506.6 | 496.4 | 489.3 | 489.9 | 493.8 |
| 27.5° | 586.8 | 582.9 | 583.6 | 566.3 | 529.1 | 498.9 | 475.8 | 467.5 | 469.4 | 470.7 | 474.6 |
| 30° | 603.4 | 603.4 | 606.0 | 566.3 | 508.5 | 463.6 | 441.8 | 441.2 | 446.3 | 450.2 | 454.7 |
| 32.5° | 622.7 | 628.5 | 624.0 | 559.2 | 481.0 | 427.7 | 410.4 | 411.7 | 417.5 | 423.9 | 427.7 |
| 35° | 641.3 | 654.8 | 641.9 | 543.2 | 443.1 | 395.0 | 380.9 | 379.0 | 383.5 | 389.3 | 391.2 |
| 37.5° | 670.8 | 692.6 | 657.3 | 518.2 | 404.0 | 366.2 | 352.1 | 346.9 | 342.4 | 346.9 | 346.3 |
| 40° | 722.1 | 748.4 | 668.9 | 476.5 | 366.2 | 339.2 | 324.5 | 314.9 | 304.0 | 294.3 | 294.3 |
| 42.5° | 804.2 | 821.5 | 675.3 | 425.8 | 328.3 | 312.3 | 297.6 | 283.4 | 266.8 | 249.5 | 249.5 |
| 45° | 938.2 | 942.0 | 677.8 | 371.9 | 293.7 | 285.4 | 270.0 | 256.5 | 234.7 | 217.4 | 213.5 |
| 47.5° | 1117.1 | 1100.4 | 684.3 | 320.0 | 263.6 | 261.6 | 248.8 | 233.4 | 209.7 | 193.7 | 191.7 |
| 50° | 1357.6 | 1285.8 | 712.5 | 278.3 | 239.2 | 241.1 | 231.5 | 213.5 | 191.1 | 179.6 | 177.0 |
| 52.5° | 1628.2 | 1519.8 | 734.3 | 245.0 | 218.0 | 223.8 | 216.8 | 199.4 | 180.2 | 170.6 | 168.7 |
| 55° | 1923.9 | 1744.9 | 729.1 | 222.5 | 202.0 | 208.4 | 205.9 | 191.1 | 173.8 | 165.5 | 163.5 |
| 57.5° | 2165.0 | 1903.3 | 684.3 | 202.6 | 186.0 | 195.0 | 197.5 | 186.0 | 169.9 | 162.2 | 160.3 |
| 60° | 2345.8 | 1989.9 | 591.9 | 186.0 | 173.1 | 184.0 | 191.1 | 182.8 | 169.3 | 164.8 | 162.9 |
| 62.5° | 2427.9 | 1982.2 | 472.0 | 173.1 | 163.5 | 176.4 | 191.7 | 187.9 | 178.9 | 182.1 | 182.8 |
| 65° | 2381.7 | 1885.4 | 354.0 | 163.5 | 157.8 | 177.6 | 202.6 | 202.6 | 189.2 | 195.0 | 195.6 |
| 67.5° | 2145.1 | 1632.1 | 257.8 | 156.5 | 152.0 | 184.0 | 223.2 | 210.3 | 184.7 | 189.2 | 187.3 |
| 69° | 1920.0 | 1460.2 | 221.2 | 152.6 | 147.5 | 187.3 | 232.1 | 211.6 | 179.6 | 184.7 | 179.6 |
| 70° | 1754.6 | 1305.0 | 198.8 | 149.4 | 145.6 | 187.3 | 234.7 | 210.3 | 177.0 | 180.8 | 175.1 |
| 72.5° | 1248.6 | 906.1 | 163.5 | 143.0 | 138.5 | 173.1 | 230.2 | 203.3 | 169.9 | 165.5 | 154.5 |
| 75° | 725.9 | 500.8 | 139.2 | 136.0 | 122.5 | 152.0 | 218.7 | 195.6 | 162.9 | 154.5 | 146.9 |
| 77.5° | 304.6 | 223.8 | 118.6 | 123.8 | 108.4 | 135.3 | 204.6 | 187.9 | 154.5 | 143.0 | 139.2 |
| 80° | 123.8 | 111.6 | 98.8 | 107.1 | 94.3 | 119.3 | 188.5 | 175.1 | 142.4 | 130.8 | 125.1 |
| 82.5° | 64.8 | 61.6 | 75.7 | 86.6 | 78.2 | 109.7 | 177.6 | 166.1 | 132.1 | 120.6 | 113.5 |
| 85° | 19.2 | 25.7 | 43.0 | 59.0 | 59.6 | 98.8 | 172.5 | 153.9 | 114.8 | 99.4 | 98.1 |
| 87.5° | 1.3 | 5.1 | 14.7 | 30.8 | 39.1 | 75.7 | 139.8 | 126.3 | 93.0 | 78.2 | 78.9 |
| 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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| 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 |
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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 |
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| 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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