

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-HSS-ULG**

Issue Date: 3/30/2022

Test Information

Test Method: LM-79-08
Report Number: REPORT IS A COMBINATION OF REPORTS P401338 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-HSS-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5137.9 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')
IES Classification: Type III - Short
BUG Rating: B0 - U5 - G1

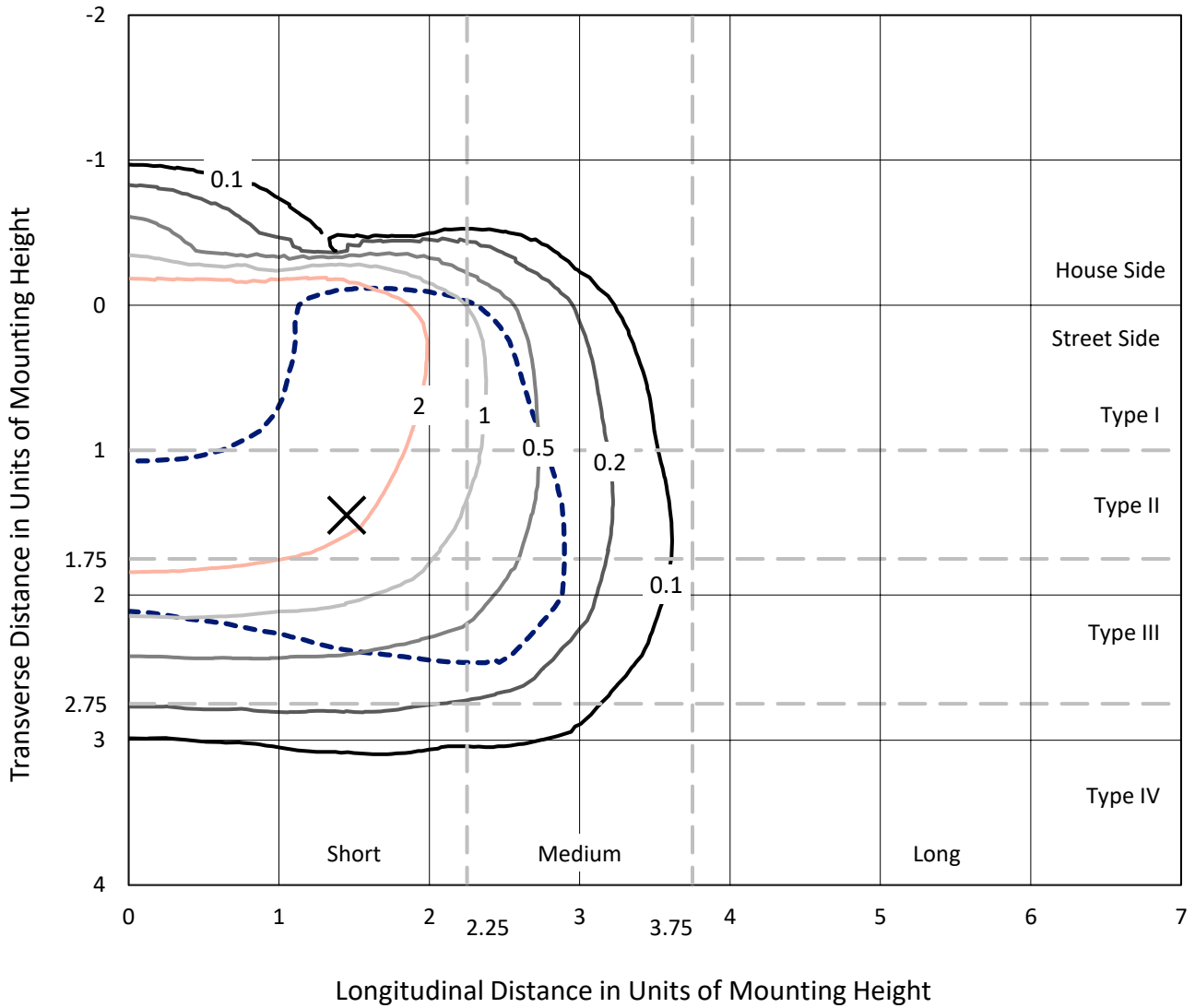
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

Iso-Footcandle Lines of Horizontal Illumination

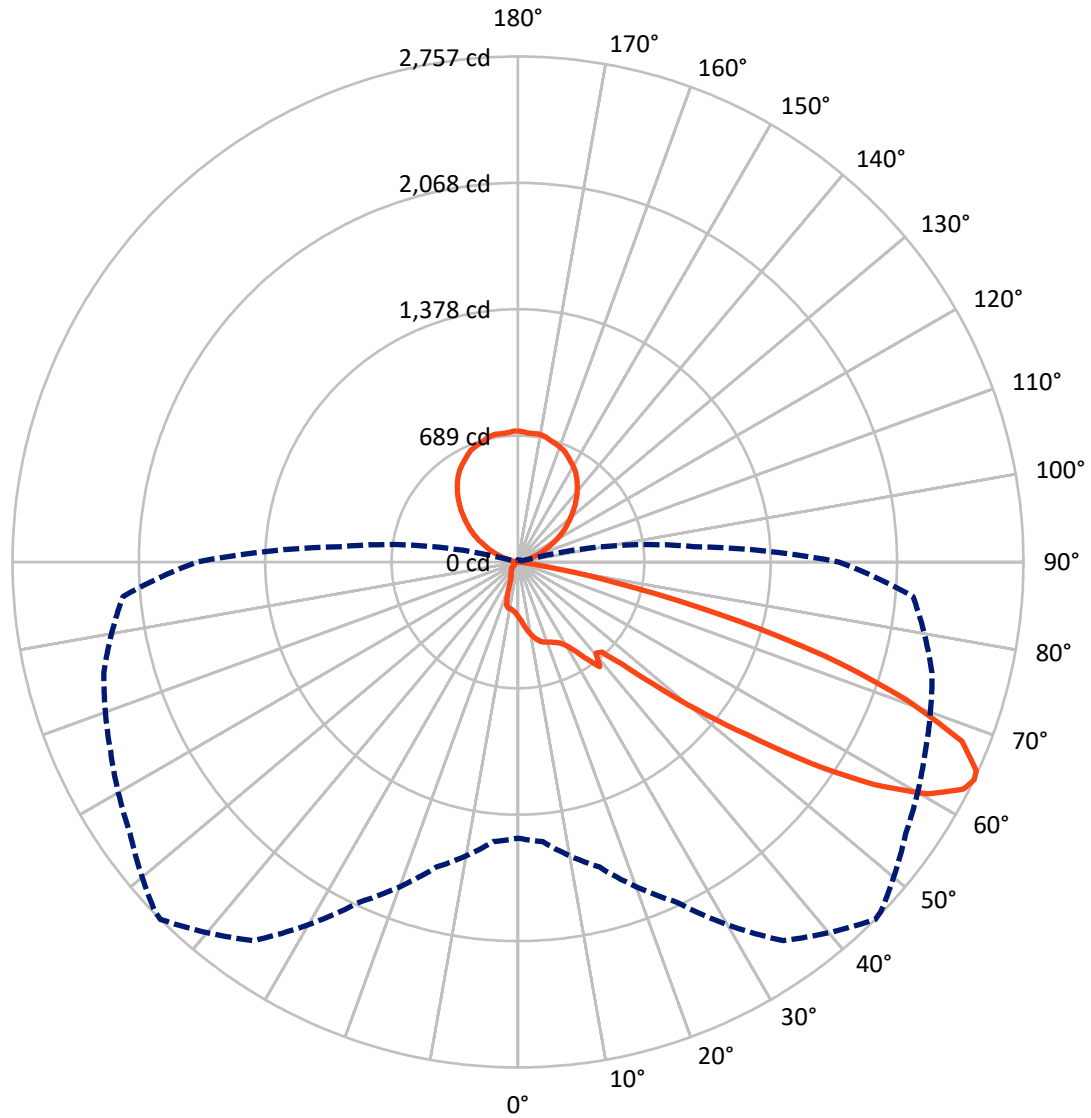
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER:
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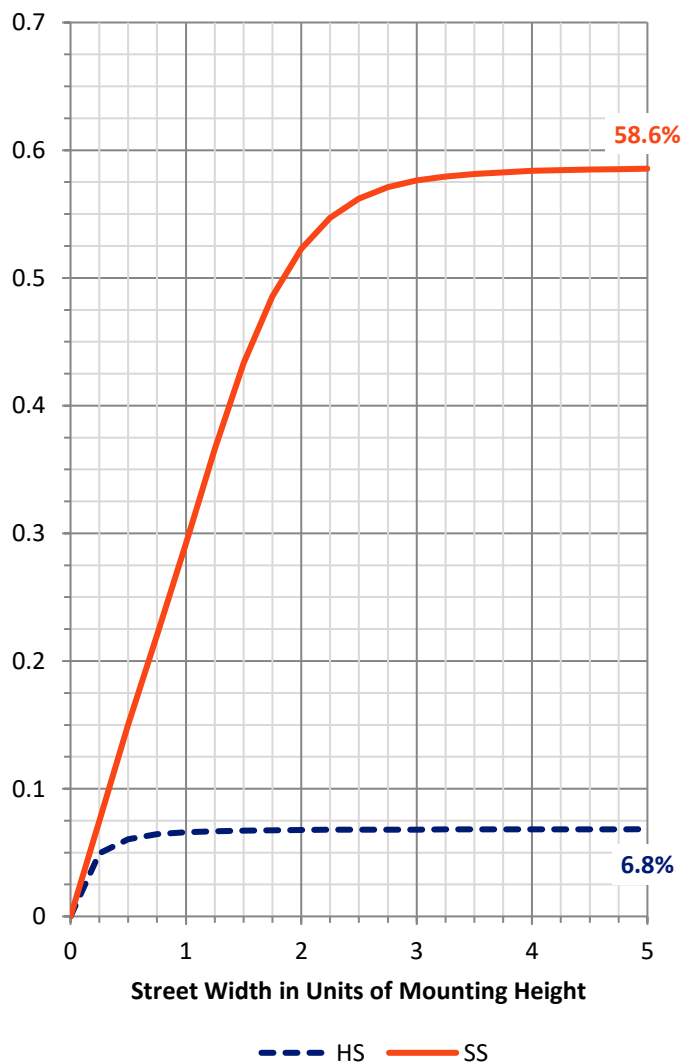
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 355.0 | 887.0 | 1241.9 |
| | % Fixture | 6.9 | 17.3 | 24.2 |
| Street Side | Lumens | 3009.0 | 887.0 | 3896.0 |
| | % Fixture | 58.6 | 17.3 | 75.8 |
| Total | Lumens | 3364.0 | 1773.9 | 5137.9 |
| | % Fixture | 65.5 | 34.5 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.2 | 0.6 |
| 10°-20° | 94.3 | 1.8 |
| 20°-30° | 153.5 | 3.0 |
| 30°-40° | 243.9 | 4.7 |
| 40°-50° | 464.5 | 9.0 |
| 50°-60° | 957.2 | 18.6 |
| 60°-70° | 1069.0 | 20.8 |
| 70°-80° | 337.6 | 6.6 |
| 80°-90° | 13.7 | 0.3 |
| 90°-100° | 8.4 | 0.2 |
| 100°-110° | 58.7 | 1.1 |
| 110°-120° | 169.9 | 3.3 |
| 120°-130° | 279.4 | 5.4 |
| 130°-140° | 344.6 | 6.7 |
| 140°-150° | 352.5 | 6.9 |
| 150°-160° | 297.0 | 5.8 |
| 160°-170° | 195.5 | 3.8 |
| 170°-180° | 67.8 | 1.3 |
| 0°-90° | 3364.0 | 65.5 |
| 0°-180° | 5137.9 | 100.0 |

Coefficient of Utilization

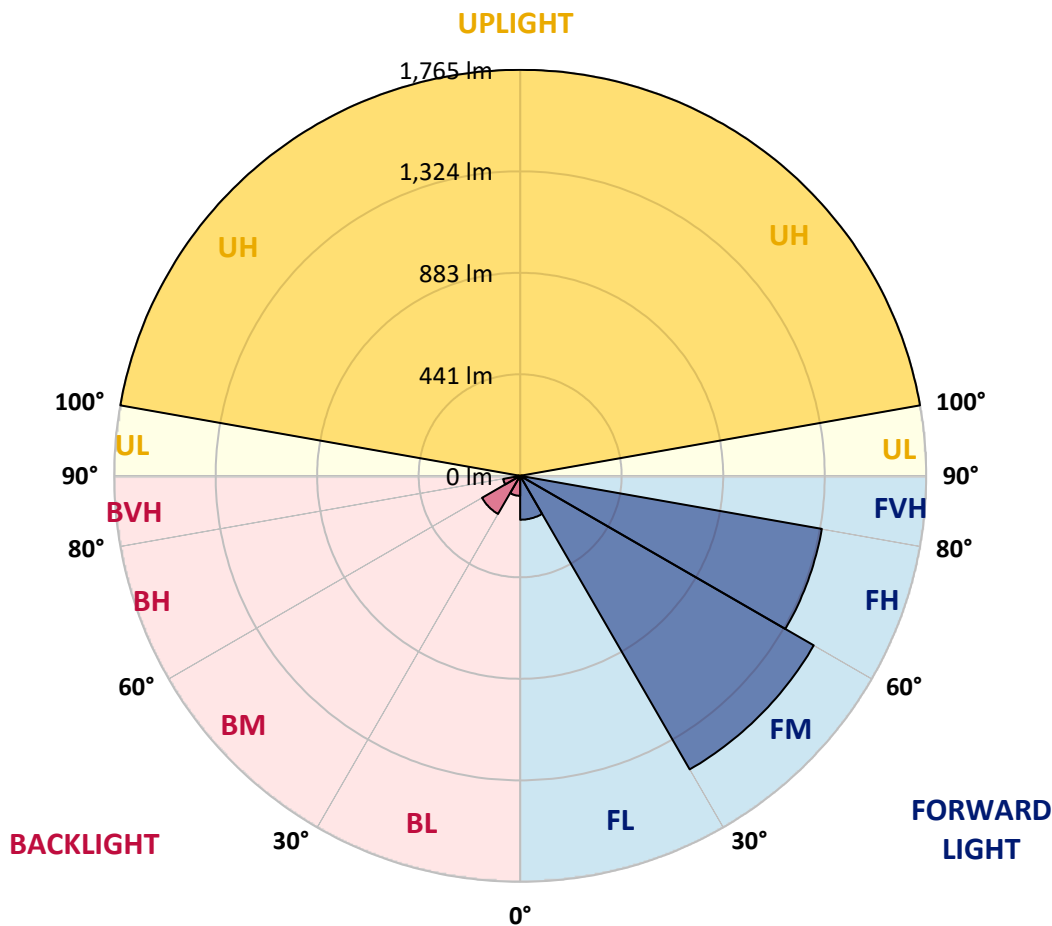


REPORT NUMBER:
 CATALOG NUMBER: ENT-SA1C-740-U-T4W-HSS-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|---------|
| | | | B | U | G |
| FL (0°-30°) | 191.1 | 3.7 | | | |
| FM (30°-60°) | 1474.0 | 28.7 | | | |
| FH (60°-80°) | 1331.9 | 25.9 | | | G1/1800 |
| FVH (80°-90°) | 12.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 87.0 | 1.7 | B0/110 | | |
| BM (30°-60°) | 191.6 | 3.7 | B0/220 | | |
| BH (60°-80°) | 74.8 | 1.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 8.4 | 0.2 | | U1/10 | |
| UH (100°-180°) | 1765.5 | 34.4 | | U5 | |

BUG Rating: B0-U5-G1
 Type III Short





REPORT NUMBER:

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 |
| 2.5° | 329.0 | 330.2 | 328.3 | 325.7 | 323.2 | 318.7 | 319.3 | 313.6 | 309.1 | 305.9 | 300.7 |
| 5° | 370.6 | 370.0 | 366.1 | 360.4 | 354.6 | 346.3 | 345.0 | 336.0 | 326.4 | 316.1 | 306.5 |
| 7.5° | 413.0 | 411.0 | 407.2 | 399.5 | 388.6 | 377.7 | 374.5 | 361.7 | 347.6 | 332.2 | 315.5 |
| 10° | 447.6 | 446.3 | 441.8 | 433.5 | 420.7 | 404.0 | 404.0 | 386.0 | 367.4 | 348.8 | 329.0 |
| 12.5° | 475.8 | 474.5 | 469.4 | 459.1 | 443.7 | 429.0 | 427.1 | 411.0 | 390.5 | 368.7 | 344.3 |
| 15° | 493.1 | 491.8 | 486.1 | 474.5 | 461.1 | 447.6 | 445.7 | 430.3 | 411.7 | 386.7 | 358.5 |
| 17.5° | 497.6 | 496.3 | 491.8 | 481.6 | 471.3 | 459.8 | 457.2 | 443.7 | 427.7 | 402.1 | 373.2 |
| 20° | 495.7 | 493.1 | 490.5 | 482.2 | 473.9 | 466.2 | 464.9 | 455.3 | 441.2 | 419.4 | 388.6 |
| 22.5° | 490.5 | 488.0 | 486.1 | 480.3 | 475.8 | 475.2 | 473.9 | 468.1 | 459.1 | 440.5 | 411.7 |
| 25° | 488.6 | 486.7 | 484.8 | 480.9 | 480.3 | 486.7 | 486.1 | 485.4 | 481.6 | 465.5 | 435.4 |
| 27.5° | 499.5 | 498.9 | 494.4 | 488.0 | 491.2 | 502.1 | 502.7 | 505.9 | 503.4 | 493.1 | 470.0 |
| 30° | 538.0 | 534.8 | 524.5 | 510.4 | 518.8 | 532.9 | 535.4 | 545.7 | 546.3 | 547.6 | 516.2 |
| 32.5° | 589.9 | 584.8 | 567.5 | 549.5 | 554.7 | 581.0 | 581.6 | 597.6 | 631.6 | 610.5 | 541.2 |
| 35° | 625.8 | 619.4 | 593.1 | 583.5 | 609.2 | 650.9 | 656.6 | 689.3 | 691.9 | 614.9 | 539.3 |
| 37.5° | 726.5 | 716.9 | 668.8 | 610.5 | 635.5 | 725.2 | 731.7 | 725.9 | 672.0 | 608.5 | 566.9 |
| 40° | 861.2 | 852.2 | 809.2 | 711.1 | 640.6 | 654.1 | 657.3 | 674.6 | 684.8 | 653.4 | 655.3 |
| 42.5° | 1036.2 | 1024.7 | 980.5 | 860.5 | 720.8 | 671.4 | 677.8 | 713.1 | 780.4 | 795.1 | 870.8 |
| 45° | 1215.1 | 1208.7 | 1163.8 | 1034.3 | 867.0 | 789.4 | 792.6 | 835.5 | 956.1 | 1049.1 | 1113.2 |
| 47.5° | 1390.2 | 1391.5 | 1353.0 | 1243.4 | 1079.8 | 993.9 | 990.1 | 1045.9 | 1198.5 | 1264.5 | 1329.9 |
| 50° | 1637.1 | 1635.8 | 1567.2 | 1499.2 | 1371.6 | 1269.7 | 1263.2 | 1294.7 | 1441.5 | 1465.9 | 1567.2 |
| 52.5° | 1917.9 | 1916.7 | 1813.4 | 1781.4 | 1727.5 | 1563.3 | 1580.7 | 1553.7 | 1659.5 | 1703.1 | 1846.8 |
| 55° | 2051.3 | 2039.8 | 1996.2 | 2036.6 | 2100.7 | 1935.9 | 1933.3 | 1830.7 | 1913.5 | 1950.6 | 2084.7 |
| 57.5° | 2037.9 | 2042.3 | 2084.0 | 2218.0 | 2428.4 | 2290.5 | 2294.3 | 2103.9 | 2152.0 | 2175.1 | 2273.2 |
| 60° | 1961.5 | 1964.8 | 2061.6 | 2284.7 | 2591.9 | 2568.2 | 2554.7 | 2359.1 | 2327.7 | 2318.1 | 2364.9 |
| 62.5° | 1743.5 | 1744.8 | 1901.9 | 2188.5 | 2590.6 | 2728.5 | 2715.6 | 2538.7 | 2440.6 | 2379.0 | 2293.7 |
| 64° | 1506.3 | 1530.6 | 1723.0 | 2046.8 | 2520.7 | 2756.7 | 2749.6 | 2582.3 | 2450.8 | 2338.0 | 2162.9 |
| 65° | 1311.3 | 1347.9 | 1580.7 | 1921.1 | 2441.8 | 2747.1 | 2738.7 | 2574.6 | 2436.7 | 2261.0 | 2027.6 |
| 67.5° | 894.5 | 913.8 | 1122.8 | 1512.0 | 2141.1 | 2611.8 | 2609.2 | 2475.8 | 2283.4 | 1953.2 | 1590.9 |
| 70° | 527.7 | 541.8 | 696.4 | 1055.5 | 1645.4 | 2243.7 | 2277.7 | 2229.6 | 1895.5 | 1403.0 | 1013.2 |
| 72.5° | 164.2 | 172.5 | 307.2 | 586.1 | 1078.6 | 1748.0 | 1792.3 | 1757.6 | 1379.9 | 876.6 | 561.7 |
| 75° | 61.6 | 64.1 | 101.3 | 254.6 | 536.7 | 1117.7 | 1131.1 | 1171.5 | 840.7 | 463.0 | 245.6 |
| 77.5° | 34.0 | 34.6 | 50.0 | 95.5 | 236.0 | 548.9 | 561.7 | 556.6 | 446.9 | 218.7 | 78.2 |
| 80° | 16.7 | 17.3 | 24.4 | 42.3 | 91.7 | 155.2 | 184.0 | 243.0 | 157.7 | 107.7 | 25.0 |
| 82.5° | 5.8 | 5.1 | 10.9 | 19.2 | 30.8 | 41.7 | 46.8 | 67.3 | 66.0 | 59.0 | 9.0 |
| 85° | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.3 | 1.3 | 8.3 | 16.7 | 19.2 | 2.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.3 | 1.3 |
| 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-HSS-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-HSS-ULG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 | 298.2 |
| 2.5° | 298.2 | 296.9 | 292.4 | 287.9 | 284.7 | 280.9 | 280.2 | 277.7 | 277.0 | 277.0 | 277.0 |
| 5° | 301.4 | 297.5 | 289.2 | 282.1 | 275.7 | 270.0 | 267.4 | 264.8 | 262.9 | 262.3 | 262.3 |
| 7.5° | 308.4 | 302.7 | 289.2 | 278.9 | 269.3 | 262.3 | 258.4 | 255.9 | 253.9 | 253.9 | 253.9 |
| 10° | 318.7 | 309.7 | 293.0 | 278.9 | 267.4 | 258.4 | 252.6 | 248.8 | 246.2 | 245.6 | 246.2 |
| 12.5° | 331.5 | 320.0 | 299.5 | 282.1 | 268.7 | 257.1 | 245.0 | 222.5 | 207.8 | 199.4 | 198.1 |
| 15° | 343.7 | 330.2 | 306.5 | 286.6 | 270.6 | 245.0 | 200.7 | 166.1 | 143.0 | 135.9 | 134.7 |
| 17.5° | 357.2 | 343.1 | 316.1 | 293.0 | 263.5 | 197.5 | 143.0 | 114.1 | 109.7 | 110.9 | 110.9 |
| 20° | 373.8 | 357.2 | 326.4 | 299.5 | 227.0 | 140.4 | 104.5 | 100.7 | 102.0 | 104.5 | 104.5 |
| 22.5° | 393.1 | 375.1 | 340.5 | 295.6 | 173.1 | 102.6 | 95.5 | 96.2 | 97.5 | 100.0 | 100.0 |
| 25° | 418.1 | 399.5 | 355.9 | 266.8 | 120.6 | 89.8 | 90.4 | 91.1 | 93.0 | 95.5 | 96.2 |
| 27.5° | 455.3 | 432.8 | 374.5 | 223.8 | 91.1 | 83.4 | 84.0 | 85.9 | 87.8 | 91.1 | 91.1 |
| 30° | 495.0 | 467.5 | 391.2 | 172.5 | 79.5 | 76.3 | 76.9 | 78.9 | 82.1 | 84.6 | 85.9 |
| 32.5° | 512.3 | 488.0 | 394.4 | 118.0 | 73.7 | 70.5 | 69.3 | 71.2 | 73.7 | 76.3 | 76.9 |
| 35° | 522.0 | 511.7 | 379.0 | 85.3 | 69.3 | 65.4 | 62.8 | 62.2 | 62.8 | 64.8 | 64.8 |
| 37.5° | 569.4 | 562.4 | 348.2 | 73.1 | 64.8 | 60.9 | 57.1 | 53.9 | 52.6 | 51.9 | 52.6 |
| 40° | 660.5 | 645.1 | 307.8 | 67.3 | 60.9 | 56.4 | 51.3 | 46.2 | 41.7 | 39.8 | 39.8 |
| 42.5° | 861.2 | 783.6 | 250.1 | 63.5 | 57.1 | 51.9 | 44.2 | 37.2 | 32.1 | 30.8 | 30.8 |
| 45° | 1077.3 | 955.4 | 187.9 | 60.3 | 53.2 | 46.8 | 37.2 | 29.5 | 25.0 | 23.7 | 23.7 |
| 47.5° | 1285.0 | 1082.4 | 131.5 | 56.4 | 48.7 | 41.0 | 30.8 | 23.7 | 20.5 | 19.9 | 19.9 |
| 50° | 1503.1 | 1192.7 | 91.7 | 51.9 | 44.2 | 35.3 | 25.0 | 19.2 | 17.3 | 17.3 | 17.3 |
| 52.5° | 1715.3 | 1274.1 | 67.3 | 47.5 | 38.5 | 29.5 | 21.2 | 17.3 | 16.0 | 16.0 | 16.0 |
| 55° | 1875.6 | 1305.6 | 51.3 | 41.7 | 32.7 | 25.0 | 19.2 | 16.7 | 15.4 | 14.7 | 14.7 |
| 57.5° | 1982.7 | 1279.3 | 41.7 | 34.6 | 27.6 | 21.8 | 17.3 | 15.4 | 14.1 | 13.5 | 13.5 |
| 60° | 1980.1 | 1192.1 | 33.3 | 28.2 | 22.4 | 18.6 | 16.0 | 14.1 | 12.8 | 12.2 | 12.2 |
| 62.5° | 1864.1 | 1050.3 | 26.3 | 22.4 | 18.6 | 16.0 | 14.1 | 12.8 | 11.5 | 10.9 | 10.3 |
| 64° | 1750.6 | 962.5 | 22.4 | 19.2 | 16.7 | 14.7 | 12.8 | 11.5 | 10.3 | 9.0 | 9.0 |
| 65° | 1627.5 | 879.1 | 20.5 | 17.3 | 14.7 | 13.5 | 12.2 | 10.9 | 9.0 | 7.7 | 7.7 |
| 67.5° | 1237.6 | 650.9 | 16.7 | 13.5 | 11.5 | 10.9 | 9.6 | 8.3 | 6.4 | 5.1 | 5.1 |
| 70° | 803.5 | 421.3 | 14.1 | 10.9 | 9.6 | 9.6 | 9.0 | 7.1 | 5.1 | 4.5 | 3.8 |
| 72.5° | 411.7 | 209.7 | 11.5 | 9.0 | 8.3 | 8.3 | 7.7 | 5.8 | 4.5 | 3.8 | 3.2 |
| 75° | 174.4 | 85.3 | 9.6 | 7.7 | 7.1 | 6.4 | 5.8 | 5.1 | 3.8 | 3.2 | 3.2 |
| 77.5° | 60.9 | 32.1 | 9.0 | 7.7 | 5.8 | 5.1 | 5.1 | 5.1 | 5.1 | 4.5 | 3.8 |
| 80° | 20.5 | 12.2 | 5.8 | 5.8 | 6.4 | 7.1 | 7.1 | 6.4 | 7.1 | 5.8 | 4.5 |
| 82.5° | 8.3 | 4.5 | 1.9 | 2.6 | 4.5 | 5.1 | 5.8 | 5.8 | 5.8 | 4.5 | 3.8 |
| 85° | 1.9 | 1.3 | 1.3 | 1.9 | 1.9 | 2.6 | 2.6 | 3.2 | 3.2 | 2.6 | 2.6 |
| 87.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.9 | 1.3 | 1.9 | 1.9 | 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° | 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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| 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 |
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| 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 |
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| 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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