

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: P401247

Luminaire Tested: **ENC-SA1C-722-U-T4FT-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1C-722-U-T4FT-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA 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: 2349 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

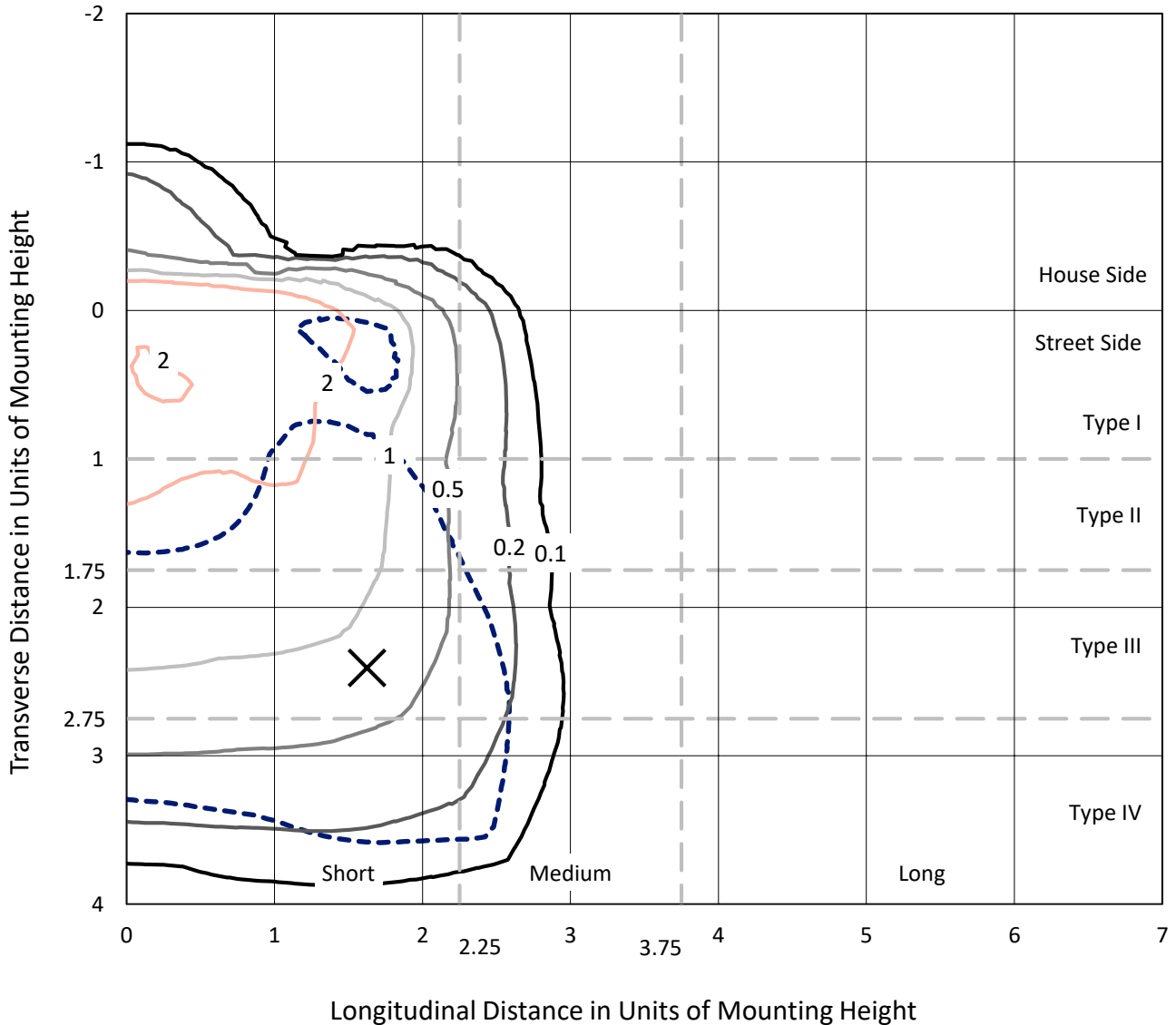
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P401247
 CATALOG NUMBER: ENC-SA1C-722-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

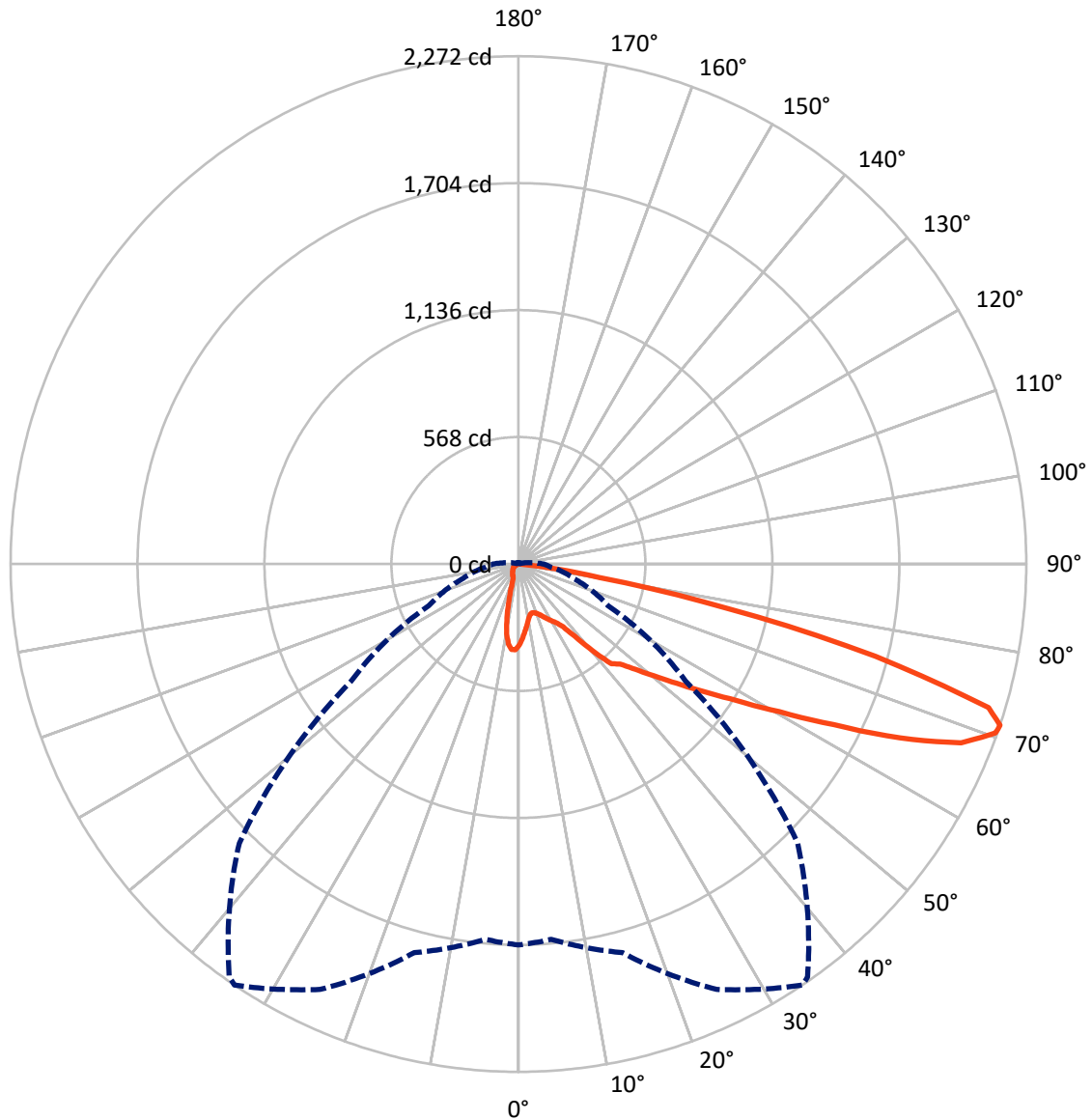
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P401247
CATALOG NUMBER: ENC-SA1C-722-U-T4FT-HSS

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 | 259.7 | 0.0 | 259.7 |
| | % Fixture | 11.1 | 0.0 | 11.1 |
| Street Side | Lumens | 2089.3 | 0.0 | 2089.3 |
| | % Fixture | 88.9 | 0.0 | 88.9 |
| Total | Lumens | 2349.0 | 0.0 | 2349.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 32.1 | 1.4 |
| 10°-20° | 73.5 | 3.1 |
| 20°-30° | 109.7 | 4.7 |
| 30°-40° | 183.3 | 7.8 |
| 40°-50° | 331.0 | 14.1 |
| 50°-60° | 525.2 | 22.4 |
| 60°-70° | 705.8 | 30.0 |
| 70°-80° | 374.5 | 15.9 |
| 80°-90° | 13.8 | 0.6 |
| 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° | 2349.0 | 100.0 |
| 0°-180° | 2349.0 | 100.0 |



REPORT NUMBER: P401247

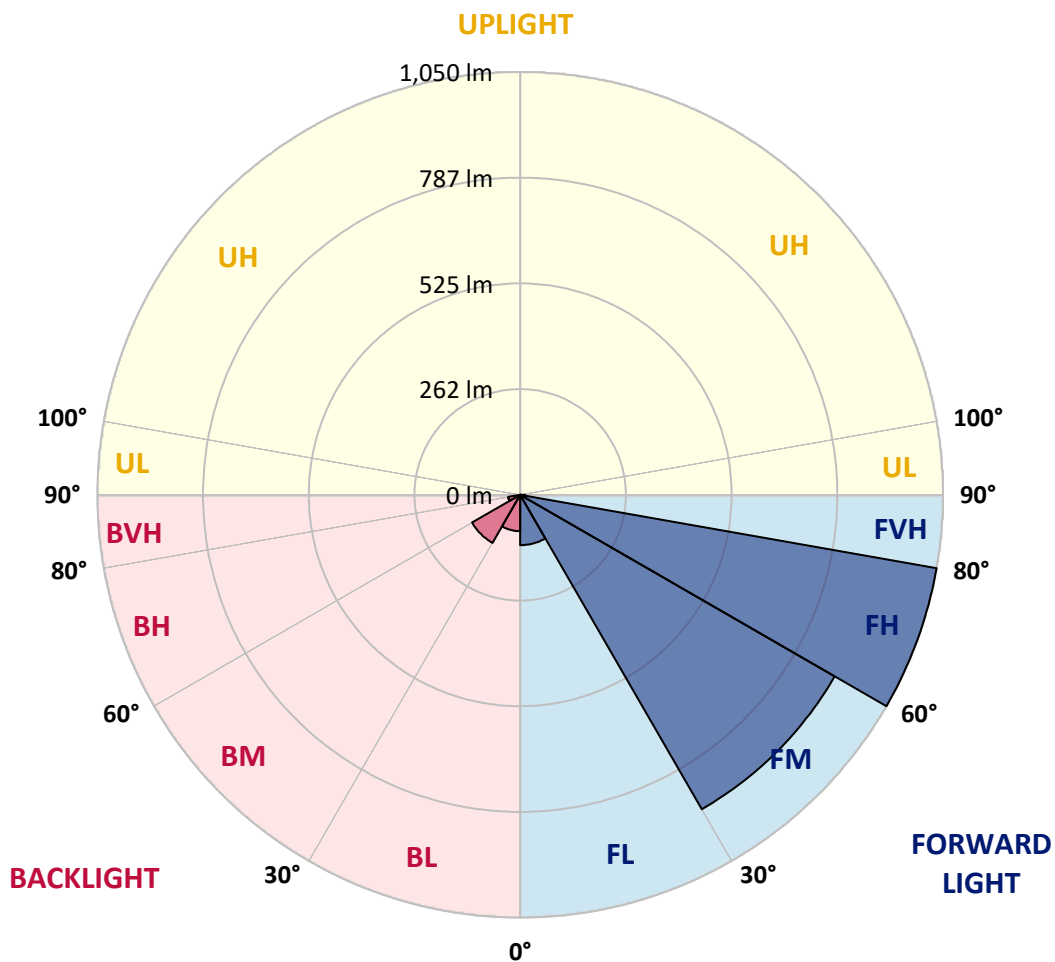
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 125.0 | 5.3 | | | |
| FM | (30°-60°) | 901.7 | 38.4 | | | |
| FH | (60°-80°) | 1050.0 | 44.7 | | | G1/1800 |
| FVH | (80°-90°) | 12.6 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 90.3 | 3.8 | B0/110 | | |
| BM | (30°-60°) | 137.8 | 5.9 | B0/220 | | |
| BH | (60°-80°) | 30.3 | 1.3 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.3 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P401247

CATALOG NUMBER: ENC-SA1C-722-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 |
| 2.5° | 331.4 | 327.2 | 331.0 | 332.8 | 334.3 | 336.1 | 339.0 | 344.2 | 349.8 | 356.4 | 360.2 |
| 5° | 289.0 | 291.4 | 292.8 | 298.0 | 303.1 | 304.1 | 313.0 | 323.4 | 336.6 | 349.8 | 361.1 |
| 7.5° | 254.6 | 254.6 | 258.8 | 266.8 | 275.3 | 276.3 | 291.8 | 305.5 | 324.4 | 344.6 | 363.0 |
| 10° | 227.2 | 228.2 | 231.5 | 239.5 | 250.3 | 252.7 | 270.1 | 289.0 | 312.6 | 339.0 | 364.9 |
| 12.5° | 218.3 | 217.8 | 217.3 | 223.0 | 232.0 | 234.3 | 253.6 | 276.3 | 304.1 | 336.1 | 369.6 |
| 15° | 223.9 | 222.5 | 219.2 | 220.2 | 225.8 | 228.2 | 245.2 | 267.8 | 298.9 | 335.7 | 377.6 |
| 17.5° | 232.9 | 231.0 | 224.9 | 223.0 | 229.1 | 231.5 | 245.6 | 265.4 | 297.0 | 338.0 | 387.1 |
| 20° | 243.7 | 241.9 | 232.4 | 230.1 | 236.2 | 238.1 | 252.7 | 269.7 | 298.0 | 342.7 | 399.8 |
| 22.5° | 259.3 | 256.9 | 243.3 | 240.4 | 246.6 | 248.5 | 264.0 | 279.6 | 303.6 | 351.2 | 417.2 |
| 25° | 278.2 | 275.3 | 257.9 | 254.1 | 261.7 | 263.5 | 279.1 | 293.7 | 313.0 | 362.6 | 439.4 |
| 27.5° | 298.9 | 295.6 | 277.2 | 269.7 | 278.2 | 281.0 | 295.6 | 311.6 | 326.7 | 376.7 | 468.6 |
| 30° | 317.8 | 314.0 | 296.1 | 287.6 | 296.1 | 297.5 | 314.9 | 332.8 | 348.9 | 400.7 | 511.5 |
| 32.5° | 370.1 | 360.7 | 332.8 | 308.3 | 314.0 | 316.8 | 338.0 | 366.3 | 390.4 | 429.5 | 566.7 |
| 35° | 448.4 | 440.8 | 406.9 | 364.4 | 344.6 | 345.6 | 372.9 | 408.8 | 419.6 | 463.0 | 635.1 |
| 37.5° | 523.8 | 517.2 | 487.5 | 448.4 | 410.6 | 412.1 | 416.8 | 451.2 | 463.9 | 521.0 | 718.5 |
| 40° | 606.3 | 595.9 | 572.3 | 535.1 | 509.2 | 503.0 | 479.9 | 504.0 | 531.8 | 594.0 | 809.5 |
| 42.5° | 644.5 | 634.6 | 610.1 | 612.4 | 609.6 | 598.8 | 553.0 | 586.5 | 617.6 | 700.1 | 909.9 |
| 45° | 707.7 | 688.3 | 637.9 | 641.7 | 637.9 | 638.8 | 650.1 | 698.7 | 725.6 | 812.3 | 1023.5 |
| 47.5° | 766.1 | 744.0 | 691.2 | 687.4 | 703.9 | 712.4 | 773.2 | 832.1 | 834.5 | 909.9 | 1112.6 |
| 50° | 819.4 | 803.4 | 754.8 | 755.3 | 785.4 | 794.9 | 916.5 | 970.3 | 922.6 | 984.9 | 1182.4 |
| 52.5° | 890.1 | 867.5 | 824.1 | 839.7 | 886.8 | 895.3 | 1059.4 | 1091.4 | 986.3 | 1052.8 | 1237.1 |
| 55° | 955.6 | 943.4 | 911.3 | 934.4 | 1006.6 | 1028.7 | 1204.6 | 1184.8 | 1031.1 | 1113.1 | 1263.5 |
| 57.5° | 1063.1 | 1051.3 | 1042.9 | 1054.6 | 1151.3 | 1179.1 | 1351.7 | 1250.8 | 1066.0 | 1153.2 | 1251.2 |
| 60° | 1242.3 | 1230.5 | 1205.0 | 1215.9 | 1341.8 | 1355.9 | 1467.2 | 1317.7 | 1079.6 | 1164.5 | 1203.2 |
| 62.5° | 1463.4 | 1448.8 | 1407.8 | 1457.7 | 1584.1 | 1583.6 | 1586.9 | 1353.1 | 1062.2 | 1131.0 | 1076.3 |
| 65° | 1662.8 | 1642.6 | 1621.3 | 1723.2 | 1876.9 | 1855.7 | 1714.2 | 1357.3 | 1007.0 | 969.3 | 832.6 |
| 67.5° | 1808.0 | 1800.0 | 1811.8 | 1970.7 | 2136.2 | 2115.0 | 1837.7 | 1298.9 | 838.3 | 699.6 | 514.4 |
| 70° | 1802.4 | 1785.9 | 1860.8 | 2114.5 | 2264.9 | 2247.4 | 1832.6 | 1067.4 | 559.1 | 370.6 | 215.5 |
| 71° | 1704.8 | 1685.9 | 1800.0 | 2100.3 | 2272.4 | 2255.9 | 1766.6 | 913.2 | 442.2 | 261.7 | 141.9 |
| 72.5° | 1317.3 | 1374.3 | 1555.8 | 1949.0 | 2199.8 | 2178.6 | 1586.9 | 699.2 | 280.0 | 151.3 | 71.2 |
| 75° | 557.3 | 588.4 | 923.6 | 1391.3 | 1650.1 | 1639.3 | 1069.7 | 322.9 | 128.7 | 68.4 | 27.3 |
| 77.5° | 143.3 | 141.4 | 282.9 | 596.9 | 960.8 | 977.8 | 493.1 | 110.8 | 66.9 | 48.6 | 15.6 |
| 80° | 27.8 | 30.2 | 80.6 | 207.4 | 366.8 | 376.7 | 160.8 | 48.6 | 44.8 | 38.2 | 8.0 |
| 82.5° | 2.8 | 3.3 | 14.1 | 64.1 | 123.1 | 118.8 | 35.4 | 18.4 | 27.3 | 25.9 | 3.8 |
| 85° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.9 | 6.6 | 7.1 | 0.9 |
| 87.5° | 0.0 | 0.0 | 0.5 | 0.5 | 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 |



REPORT NUMBER: P401247

CATALOG NUMBER: ENC-SA1C-722-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 | 364.0 |
| 2.5° | 363.0 | 367.3 | 372.0 | 375.3 | 378.6 | 379.1 | 383.8 | 382.8 | 384.2 | 384.7 | 384.2 |
| 5° | 367.3 | 372.9 | 381.9 | 386.6 | 388.5 | 385.2 | 384.2 | 379.1 | 377.2 | 374.8 | 372.5 |
| 7.5° | 372.0 | 379.1 | 389.4 | 391.8 | 385.2 | 372.9 | 363.0 | 350.3 | 338.5 | 331.0 | 331.9 |
| 10° | 377.2 | 386.1 | 394.6 | 388.5 | 371.5 | 347.5 | 319.6 | 291.4 | 266.4 | 256.9 | 260.2 |
| 12.5° | 383.8 | 394.6 | 398.4 | 381.4 | 348.4 | 299.8 | 249.4 | 206.5 | 180.6 | 165.0 | 163.1 |
| 15° | 393.7 | 404.5 | 400.3 | 370.1 | 311.6 | 235.7 | 173.0 | 129.7 | 104.7 | 96.6 | 92.4 |
| 17.5° | 405.9 | 416.3 | 400.3 | 349.8 | 259.3 | 168.8 | 105.1 | 78.7 | 70.7 | 68.8 | 69.3 |
| 20° | 421.0 | 430.9 | 398.4 | 319.2 | 199.9 | 103.7 | 70.2 | 65.1 | 65.1 | 65.1 | 64.6 |
| 22.5° | 441.3 | 446.5 | 395.6 | 278.6 | 137.7 | 70.2 | 62.2 | 61.8 | 62.2 | 62.2 | 62.2 |
| 25° | 465.8 | 464.9 | 390.4 | 230.1 | 86.7 | 59.9 | 59.4 | 59.4 | 59.9 | 60.3 | 60.3 |
| 27.5° | 498.3 | 488.4 | 381.4 | 172.1 | 61.3 | 55.6 | 56.6 | 57.5 | 58.5 | 59.4 | 59.4 |
| 30° | 543.6 | 519.5 | 366.8 | 116.4 | 51.9 | 51.4 | 53.3 | 56.1 | 57.5 | 58.5 | 58.5 |
| 32.5° | 592.2 | 551.6 | 341.8 | 74.5 | 47.6 | 47.1 | 49.0 | 53.3 | 57.0 | 58.0 | 58.0 |
| 35° | 653.4 | 586.0 | 304.6 | 53.7 | 44.8 | 43.8 | 45.7 | 49.5 | 55.2 | 58.0 | 58.0 |
| 37.5° | 718.0 | 622.8 | 250.3 | 45.3 | 42.0 | 41.0 | 42.4 | 45.3 | 51.9 | 57.0 | 57.5 |
| 40° | 786.9 | 655.3 | 188.1 | 42.0 | 39.1 | 38.7 | 39.1 | 42.0 | 47.1 | 54.2 | 55.6 |
| 42.5° | 856.2 | 682.7 | 131.5 | 38.7 | 36.8 | 35.8 | 36.8 | 38.7 | 43.4 | 49.5 | 50.4 |
| 45° | 932.5 | 712.8 | 87.7 | 35.8 | 34.9 | 33.9 | 34.9 | 36.3 | 39.6 | 42.9 | 43.4 |
| 47.5° | 988.2 | 723.7 | 60.3 | 32.5 | 32.1 | 32.5 | 33.0 | 33.9 | 35.8 | 36.3 | 35.8 |
| 50° | 1024.9 | 718.0 | 43.4 | 29.2 | 29.7 | 31.1 | 31.1 | 31.6 | 31.6 | 30.2 | 29.7 |
| 52.5° | 1051.8 | 697.3 | 33.5 | 25.0 | 27.8 | 29.2 | 29.2 | 28.3 | 27.3 | 25.5 | 25.0 |
| 55° | 1054.6 | 650.6 | 26.4 | 21.7 | 25.0 | 27.3 | 26.9 | 25.0 | 23.1 | 21.2 | 21.2 |
| 57.5° | 1018.8 | 579.9 | 21.7 | 18.4 | 21.7 | 24.0 | 23.1 | 21.2 | 18.9 | 17.4 | 17.4 |
| 60° | 960.8 | 507.3 | 18.4 | 15.6 | 17.9 | 20.3 | 18.9 | 17.4 | 15.1 | 13.7 | 13.7 |
| 62.5° | 853.8 | 435.6 | 15.1 | 12.7 | 14.6 | 16.0 | 15.6 | 14.1 | 11.8 | 10.8 | 10.4 |
| 65° | 654.4 | 331.4 | 11.3 | 9.9 | 11.3 | 13.2 | 12.3 | 10.8 | 9.4 | 8.0 | 7.5 |
| 67.5° | 393.2 | 199.4 | 9.0 | 7.5 | 9.0 | 10.4 | 9.4 | 8.0 | 6.6 | 5.7 | 5.7 |
| 70° | 166.4 | 85.3 | 7.1 | 5.7 | 6.6 | 8.0 | 7.5 | 6.6 | 5.2 | 4.7 | 4.7 |
| 71° | 113.1 | 60.8 | 6.1 | 5.2 | 6.1 | 7.5 | 7.1 | 6.1 | 5.2 | 4.7 | 4.7 |
| 72.5° | 58.0 | 31.1 | 5.2 | 4.2 | 5.7 | 6.6 | 6.6 | 5.7 | 4.7 | 4.7 | 4.7 |
| 75° | 20.7 | 13.2 | 4.2 | 3.8 | 4.7 | 4.7 | 5.2 | 5.2 | 5.2 | 5.2 | 4.7 |
| 77.5° | 11.8 | 8.0 | 3.8 | 3.8 | 3.8 | 4.2 | 5.2 | 5.7 | 6.1 | 6.1 | 5.7 |
| 80° | 6.6 | 4.2 | 2.4 | 2.8 | 3.8 | 4.2 | 5.2 | 5.7 | 6.6 | 6.6 | 6.1 |
| 82.5° | 3.3 | 1.4 | 0.5 | 1.4 | 2.4 | 3.8 | 4.2 | 4.7 | 5.7 | 5.2 | 5.2 |
| 85° | 0.5 | 0.0 | 0.0 | 0.5 | 1.4 | 1.9 | 2.8 | 3.8 | 4.7 | 4.7 | 4.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 1.4 | 2.4 | 3.3 | 3.8 | 3.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)