

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: P401425

Luminaire Tested: **ENC-SA1D-722-U-T3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1D-722-U-T3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3189 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.1
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

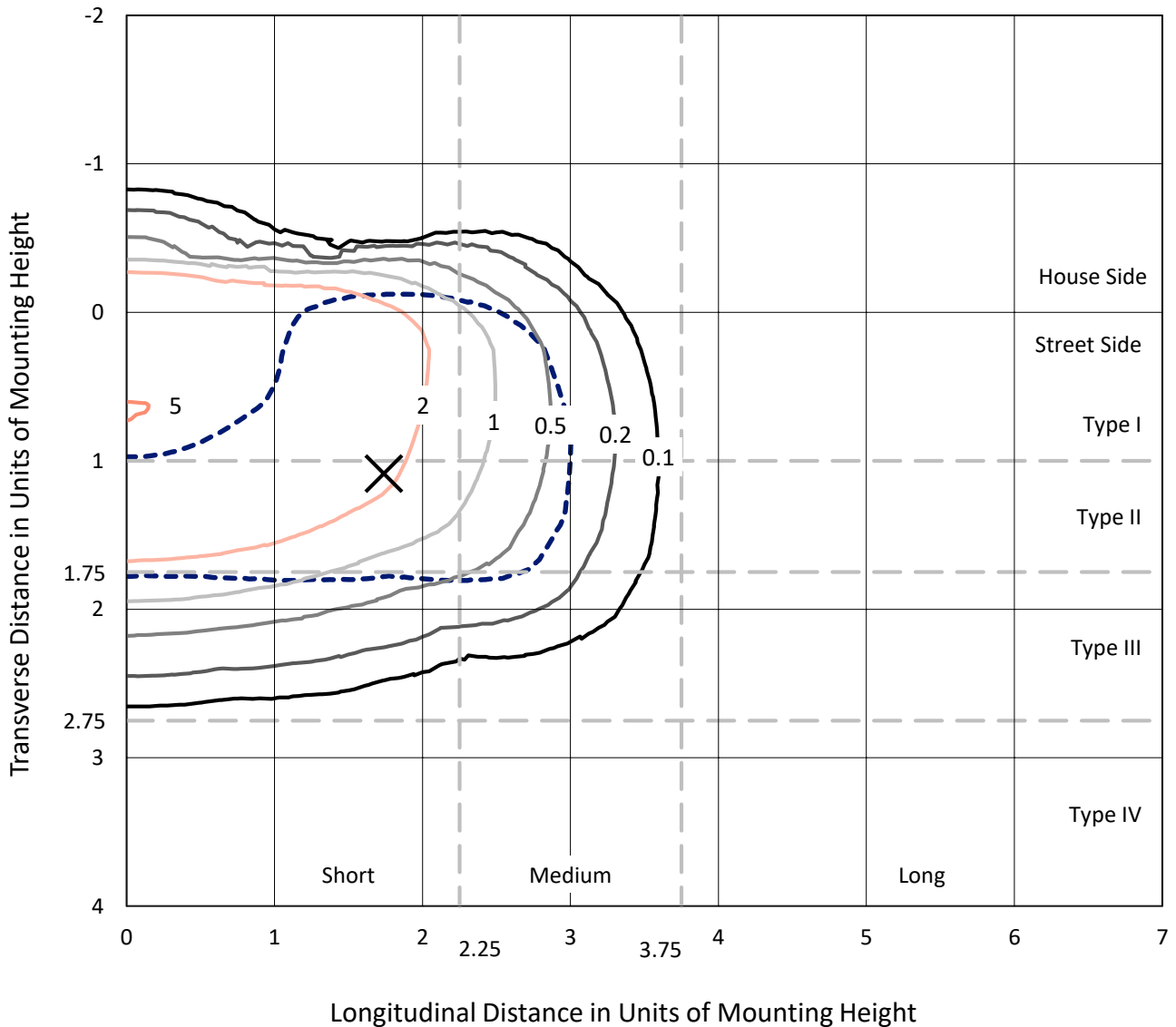


REPORT NUMBER: P401425

CATALOG NUMBER: ENC-SA1D-722-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

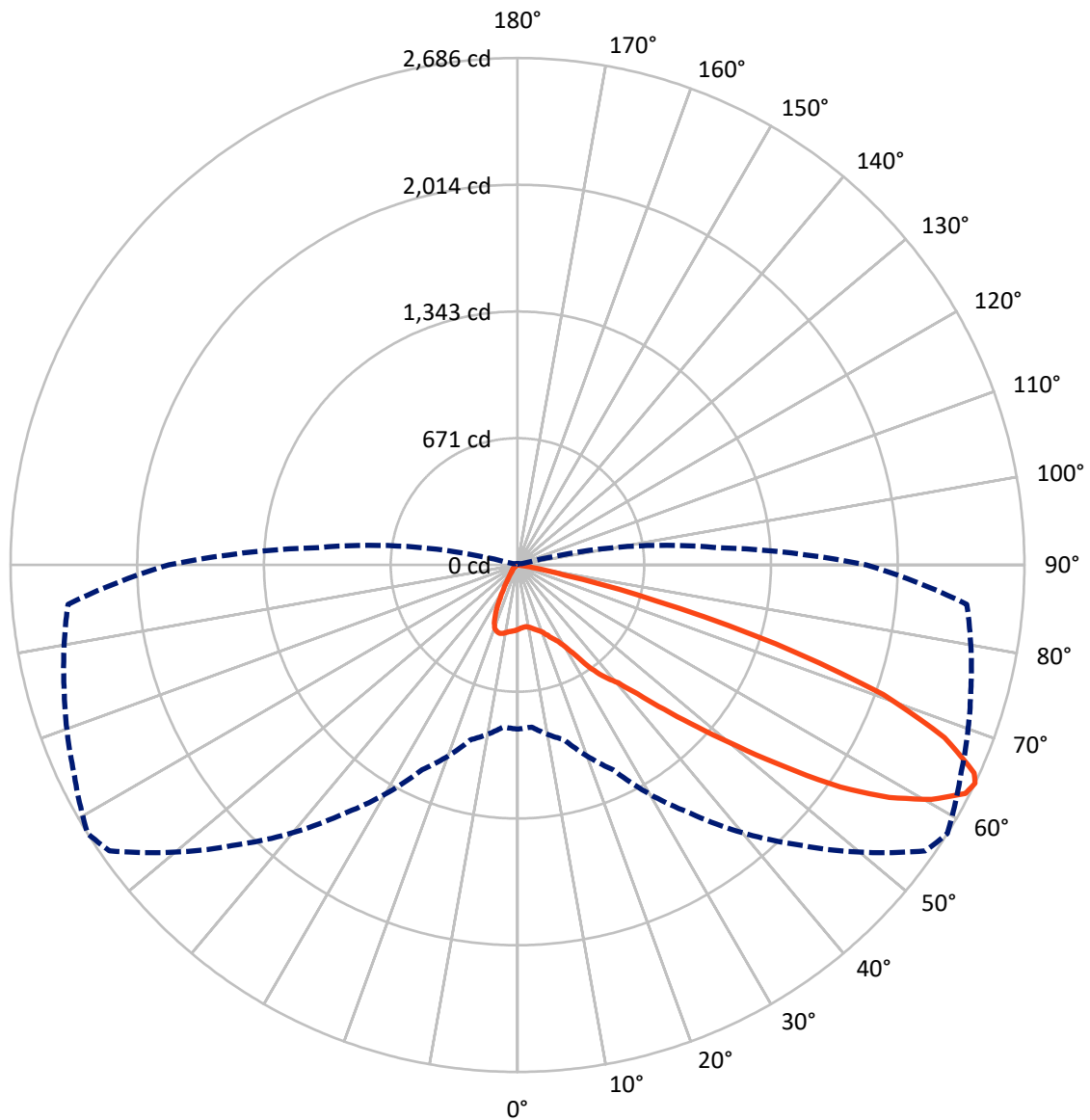


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P401425

CATALOG NUMBER: ENC-SA1D-722-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P401425

CATALOG NUMBER: ENC-SA1D-722-U-T3-HSS

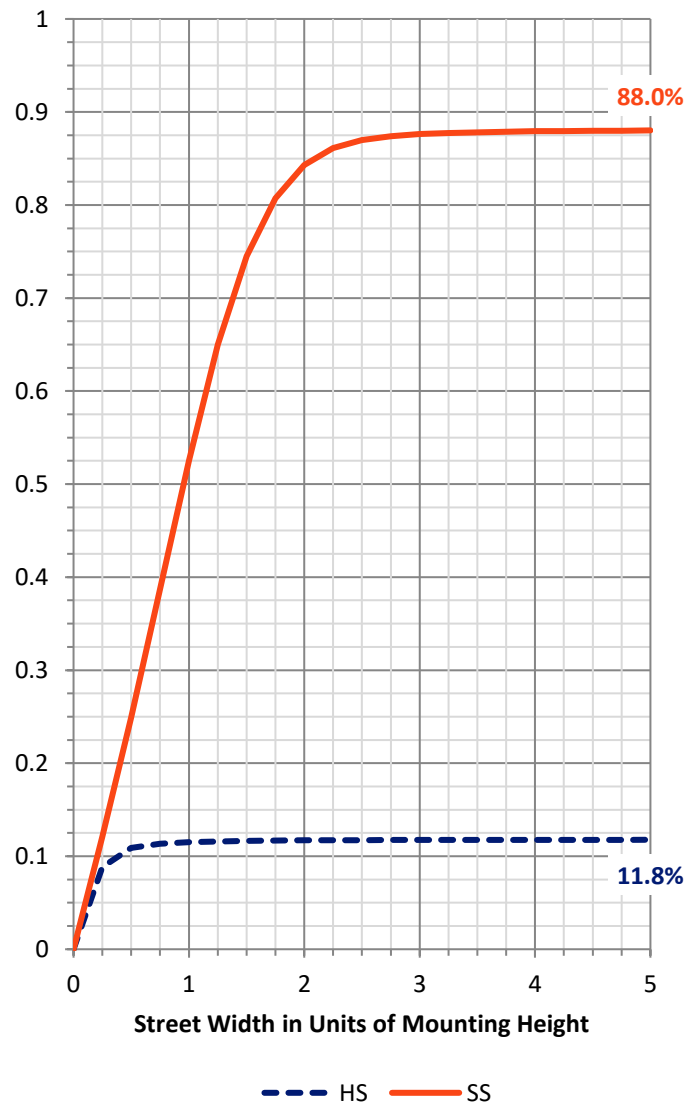
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 380.2 | 0.0 | 380.2 |
| | % Fixture | 11.9 | 0.0 | 11.9 |
| Street Side | Lumens | 2808.8 | 0.0 | 2808.8 |
| | % Fixture | 88.1 | 0.0 | 88.1 |
| Total | Lumens | 3189.0 | 0.0 | 3189.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 32.3 | 1.0 |
| 10°-20° | 94.1 | 3.0 |
| 20°-30° | 169.1 | 5.3 |
| 30°-40° | 296.4 | 9.3 |
| 40°-50° | 541.9 | 17.0 |
| 50°-60° | 927.0 | 29.1 |
| 60°-70° | 899.3 | 28.2 |
| 70°-80° | 222.7 | 7.0 |
| 80°-90° | 6.3 | 0.2 |
| 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° | 3189.0 | 100.0 |
| 0°-180° | 3189.0 | 100.0 |



REPORT NUMBER: P401425

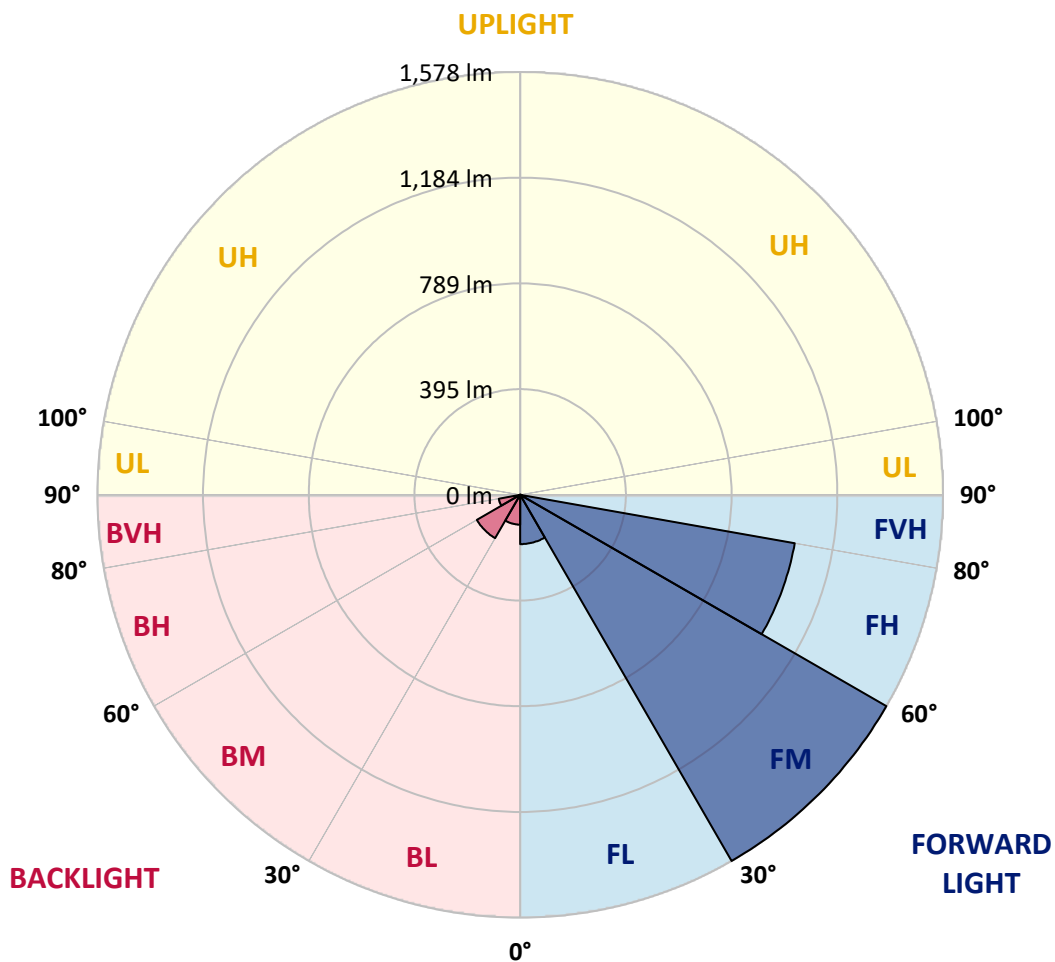
CATALOG NUMBER: ENC-SA1D-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 184.1 | 5.8 | | | |
| FM | (30°-60°) | 1578.5 | 49.5 | | | |
| FH | (60°-80°) | 1040.8 | 32.6 | | | G1/1800 |
| FVH | (80°-90°) | 5.4 | 0.2 | | | G0/10 |
| BL | (0°-30°) | 111.3 | 3.5 | B1/500 | | |
| BM | (30°-60°) | 186.7 | 5.9 | B0/220 | | |
| BH | (60°-80°) | 81.2 | 2.5 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.0 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P401425

CATALOG NUMBER: ENC-SA1D-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 |
| 2.5° | 327.4 | 327.4 | 328.6 | 329.2 | 331.0 | 332.7 | 335.1 | 335.7 | 336.9 | 339.8 | 341.0 |
| 5° | 309.7 | 310.3 | 311.5 | 314.5 | 318.6 | 323.3 | 329.2 | 331.0 | 335.7 | 341.6 | 345.7 |
| 7.5° | 302.7 | 303.2 | 305.0 | 308.6 | 313.9 | 320.9 | 328.0 | 330.4 | 336.9 | 346.3 | 352.2 |
| 10° | 301.5 | 301.5 | 303.8 | 309.1 | 315.6 | 324.5 | 332.2 | 335.1 | 344.0 | 355.2 | 364.6 |
| 12.5° | 301.5 | 301.5 | 304.4 | 310.9 | 318.6 | 329.8 | 340.4 | 344.5 | 354.6 | 368.7 | 380.5 |
| 15° | 306.8 | 308.0 | 309.7 | 313.9 | 322.7 | 335.1 | 349.9 | 354.6 | 367.0 | 384.1 | 398.8 |
| 17.5° | 344.5 | 343.4 | 337.5 | 332.2 | 330.4 | 341.0 | 358.7 | 365.2 | 383.5 | 405.3 | 421.2 |
| 20° | 417.7 | 417.1 | 406.5 | 380.5 | 357.5 | 351.6 | 372.3 | 379.9 | 406.5 | 435.4 | 447.2 |
| 22.5° | 506.2 | 509.1 | 492.6 | 457.8 | 410.6 | 380.5 | 392.3 | 403.0 | 437.2 | 472.0 | 479.1 |
| 25° | 594.1 | 597.6 | 582.3 | 538.6 | 480.8 | 428.3 | 420.1 | 429.5 | 468.4 | 503.2 | 500.3 |
| 27.5° | 697.9 | 695.0 | 679.6 | 630.1 | 562.8 | 492.6 | 457.2 | 459.0 | 489.1 | 528.0 | 518.6 |
| 30° | 774.0 | 769.9 | 755.2 | 721.5 | 658.4 | 578.2 | 510.3 | 505.0 | 513.9 | 556.9 | 546.9 |
| 32.5° | 843.7 | 846.6 | 835.4 | 790.6 | 731.0 | 666.1 | 590.0 | 575.8 | 572.3 | 608.9 | 592.3 |
| 35° | 912.7 | 912.1 | 908.0 | 868.4 | 810.0 | 748.7 | 685.0 | 674.9 | 673.7 | 709.1 | 664.3 |
| 37.5° | 995.3 | 991.2 | 983.5 | 943.4 | 896.8 | 838.4 | 770.5 | 754.6 | 751.6 | 758.7 | 706.2 |
| 40° | 1083.8 | 1089.1 | 1076.7 | 1034.8 | 984.1 | 940.4 | 845.4 | 821.2 | 801.2 | 821.8 | 788.2 |
| 42.5° | 1215.3 | 1219.5 | 1197.6 | 1168.7 | 1103.3 | 1062.5 | 966.4 | 933.3 | 923.9 | 955.2 | 917.4 |
| 45° | 1380.5 | 1372.9 | 1358.1 | 1338.1 | 1283.8 | 1221.8 | 1121.5 | 1090.3 | 1080.2 | 1133.9 | 1072.0 |
| 47.5° | 1509.2 | 1508.0 | 1508.6 | 1504.4 | 1496.2 | 1421.8 | 1302.7 | 1281.4 | 1271.4 | 1348.7 | 1280.2 |
| 50° | 1590.6 | 1595.3 | 1615.3 | 1666.7 | 1704.4 | 1673.2 | 1533.3 | 1507.4 | 1499.7 | 1579.9 | 1487.3 |
| 52.5° | 1651.9 | 1663.1 | 1696.8 | 1798.2 | 1919.2 | 1929.8 | 1814.2 | 1777.6 | 1759.9 | 1782.3 | 1653.7 |
| 55° | 1683.2 | 1688.5 | 1739.8 | 1889.7 | 2079.1 | 2155.2 | 2106.8 | 2076.1 | 2004.7 | 1962.3 | 1849.0 |
| 57.5° | 1610.0 | 1601.8 | 1690.3 | 1880.8 | 2161.7 | 2336.9 | 2357.5 | 2322.7 | 2208.3 | 2175.2 | 2086.1 |
| 60° | 1418.3 | 1414.8 | 1514.5 | 1743.4 | 2089.7 | 2379.4 | 2543.4 | 2521.5 | 2416.5 | 2338.1 | 2254.3 |
| 62.5° | 1082.0 | 1087.9 | 1193.5 | 1426.6 | 1833.0 | 2257.2 | 2646.6 | 2664.3 | 2552.8 | 2436.0 | 2378.8 |
| 64° | 869.0 | 862.0 | 958.7 | 1195.9 | 1608.3 | 2094.4 | 2639.0 | 2685.6 | 2594.1 | 2487.3 | 2390.0 |
| 65° | 729.8 | 714.5 | 807.1 | 1021.8 | 1418.3 | 1976.4 | 2584.7 | 2659.6 | 2597.1 | 2499.7 | 2349.3 |
| 67.5° | 384.1 | 392.3 | 431.9 | 620.7 | 957.5 | 1494.4 | 2327.4 | 2440.7 | 2466.1 | 2330.4 | 2047.2 |
| 70° | 172.3 | 173.5 | 198.8 | 316.8 | 529.8 | 969.3 | 1872.0 | 2055.5 | 2069.6 | 1914.5 | 1483.2 |
| 72.5° | 57.2 | 57.8 | 87.9 | 126.8 | 222.4 | 449.0 | 1264.3 | 1431.3 | 1462.0 | 1241.3 | 804.7 |
| 75° | 35.4 | 36.6 | 46.6 | 68.4 | 103.2 | 156.9 | 640.7 | 754.0 | 760.5 | 550.4 | 292.6 |
| 77.5° | 22.4 | 23.6 | 28.3 | 40.7 | 56.6 | 59.6 | 210.0 | 254.3 | 287.9 | 198.2 | 90.9 |
| 80° | 14.2 | 14.2 | 18.3 | 24.8 | 29.5 | 25.4 | 57.2 | 75.5 | 90.9 | 66.7 | 30.7 |
| 82.5° | 5.3 | 5.3 | 9.4 | 13.6 | 12.4 | 8.8 | 15.3 | 20.1 | 34.8 | 33.0 | 14.7 |
| 85° | 0.0 | 0.0 | 0.6 | 1.2 | 0.6 | 1.2 | 2.9 | 4.1 | 6.5 | 9.4 | 4.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 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: P401425

CATALOG NUMBER: ENC-SA1D-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 | 341.6 |
| 2.5° | 342.8 | 344.0 | 346.3 | 346.9 | 347.5 | 345.7 | 347.5 | 345.7 | 346.9 | 346.9 | 346.9 |
| 5° | 348.1 | 349.9 | 351.6 | 352.2 | 351.6 | 347.5 | 348.7 | 345.7 | 345.1 | 345.1 | 345.1 |
| 7.5° | 355.2 | 356.9 | 359.9 | 358.1 | 354.6 | 348.7 | 348.1 | 344.0 | 342.2 | 342.2 | 342.8 |
| 10° | 368.1 | 369.9 | 371.1 | 367.6 | 360.5 | 351.6 | 345.1 | 336.3 | 332.2 | 330.4 | 330.4 |
| 12.5° | 384.7 | 386.4 | 385.8 | 379.9 | 367.0 | 348.7 | 330.4 | 313.3 | 300.9 | 296.2 | 291.4 |
| 15° | 402.4 | 404.7 | 403.5 | 391.2 | 366.4 | 333.9 | 298.5 | 258.4 | 233.6 | 217.7 | 214.8 |
| 17.5° | 423.0 | 425.4 | 419.5 | 397.1 | 357.5 | 302.7 | 235.4 | 181.1 | 145.1 | 131.6 | 131.0 |
| 20° | 448.4 | 447.2 | 433.0 | 397.6 | 341.6 | 244.8 | 157.5 | 113.3 | 97.9 | 94.4 | 93.8 |
| 22.5° | 477.3 | 472.0 | 446.0 | 394.1 | 297.9 | 166.4 | 101.5 | 89.7 | 87.9 | 86.7 | 86.7 |
| 25° | 493.8 | 484.4 | 450.7 | 384.1 | 229.5 | 106.2 | 86.1 | 83.8 | 81.4 | 79.1 | 78.5 |
| 27.5° | 506.8 | 492.6 | 452.5 | 351.0 | 152.8 | 81.4 | 77.9 | 75.5 | 72.0 | 68.4 | 67.8 |
| 30° | 530.4 | 509.1 | 455.5 | 293.2 | 93.8 | 69.6 | 67.8 | 63.7 | 58.4 | 54.9 | 53.7 |
| 32.5° | 572.9 | 542.2 | 467.3 | 219.5 | 68.4 | 61.4 | 56.6 | 51.3 | 45.4 | 41.9 | 41.9 |
| 35° | 618.3 | 573.5 | 473.2 | 144.5 | 59.6 | 53.7 | 46.6 | 40.1 | 34.8 | 31.9 | 31.3 |
| 37.5° | 660.2 | 618.3 | 471.4 | 88.5 | 53.1 | 46.0 | 38.3 | 31.9 | 27.1 | 24.8 | 24.8 |
| 40° | 745.7 | 696.8 | 447.2 | 60.8 | 46.6 | 38.9 | 31.3 | 24.8 | 21.8 | 20.1 | 20.1 |
| 42.5° | 867.9 | 782.9 | 393.5 | 51.9 | 40.7 | 32.4 | 24.8 | 20.6 | 18.3 | 16.5 | 16.5 |
| 45° | 1004.7 | 877.9 | 313.9 | 46.6 | 35.4 | 27.1 | 20.6 | 17.1 | 14.7 | 14.2 | 14.2 |
| 47.5° | 1184.1 | 992.9 | 230.7 | 41.9 | 30.7 | 23.0 | 17.1 | 14.2 | 13.0 | 12.4 | 12.4 |
| 50° | 1341.0 | 1086.1 | 157.5 | 36.6 | 27.1 | 19.5 | 14.7 | 13.0 | 11.8 | 11.2 | 11.2 |
| 52.5° | 1483.8 | 1151.0 | 103.8 | 31.9 | 24.2 | 15.9 | 13.6 | 11.8 | 11.2 | 10.6 | 10.6 |
| 55° | 1651.9 | 1200.6 | 70.2 | 27.7 | 21.2 | 14.7 | 13.0 | 11.8 | 10.6 | 10.6 | 10.0 |
| 57.5° | 1794.7 | 1230.1 | 50.1 | 23.6 | 18.9 | 13.6 | 12.4 | 11.2 | 10.0 | 9.4 | 9.4 |
| 60° | 1877.9 | 1195.3 | 36.6 | 20.6 | 16.5 | 12.4 | 11.2 | 10.0 | 9.4 | 8.8 | 8.8 |
| 62.5° | 1900.9 | 1128.0 | 28.3 | 17.7 | 14.2 | 11.2 | 10.0 | 8.8 | 8.3 | 7.7 | 7.7 |
| 64° | 1847.8 | 1056.1 | 24.2 | 15.3 | 12.4 | 10.0 | 9.4 | 8.3 | 7.1 | 5.9 | 5.9 |
| 65° | 1772.9 | 989.4 | 21.8 | 14.2 | 11.2 | 9.4 | 8.8 | 7.7 | 5.9 | 4.7 | 4.7 |
| 67.5° | 1477.3 | 788.8 | 17.7 | 11.8 | 8.8 | 8.3 | 7.1 | 5.9 | 4.1 | 2.9 | 2.9 |
| 70° | 1049.0 | 551.6 | 13.6 | 9.4 | 7.7 | 7.7 | 6.5 | 4.7 | 2.4 | 1.2 | 1.2 |
| 72.5° | 555.2 | 286.7 | 11.2 | 7.7 | 5.9 | 5.9 | 5.3 | 2.9 | 1.8 | 1.2 | 0.6 |
| 75° | 194.1 | 94.4 | 9.4 | 6.5 | 5.3 | 4.1 | 3.5 | 2.4 | 1.8 | 1.2 | 0.6 |
| 77.5° | 59.0 | 31.3 | 8.3 | 6.5 | 4.7 | 3.5 | 4.1 | 3.5 | 3.5 | 2.4 | 1.8 |
| 80° | 18.9 | 11.2 | 4.7 | 4.1 | 4.7 | 4.7 | 4.1 | 3.5 | 4.1 | 2.9 | 2.4 |
| 82.5° | 7.1 | 4.1 | 1.8 | 2.4 | 2.4 | 2.9 | 2.9 | 2.4 | 1.8 | 0.6 | 0.0 |
| 85° | 2.4 | 1.8 | 1.2 | 1.8 | 1.8 | 1.8 | 1.2 | 1.2 | 0.6 | 0.0 | 0.0 |
| 87.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 0.6 | 0.6 | 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 |

(END OF REPORT)