

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: P673519

Luminaire Tested: **CCP-SA-1C-727-U-T4W-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673519
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1C-727-U-T4W-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ T4W distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

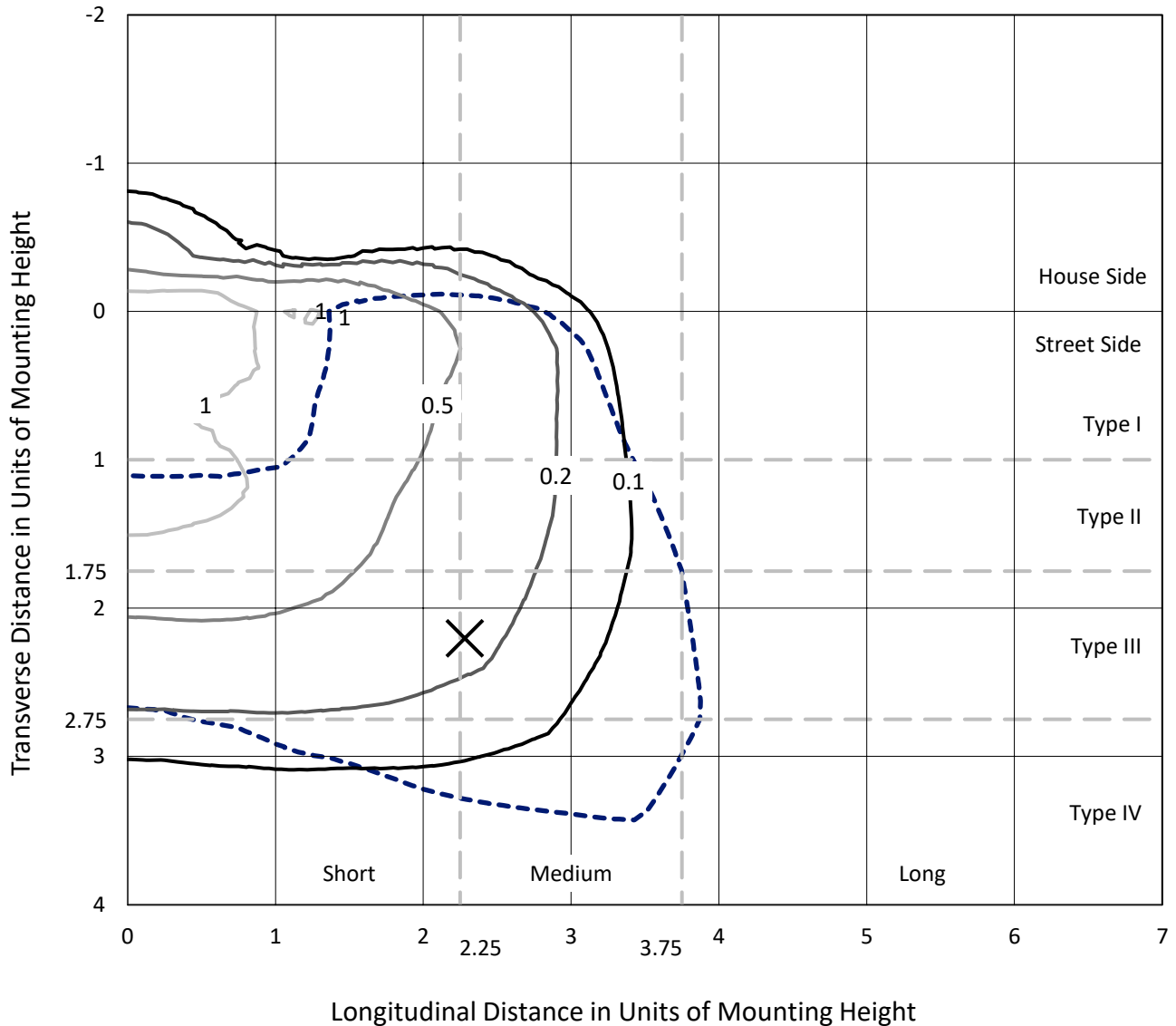
Lumens per Lamp: N/A
Luminaire Lumens: 2728 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
Input Voltage (V): 120
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: P673519
 CATALOG NUMBER: CCP-SA-1C-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

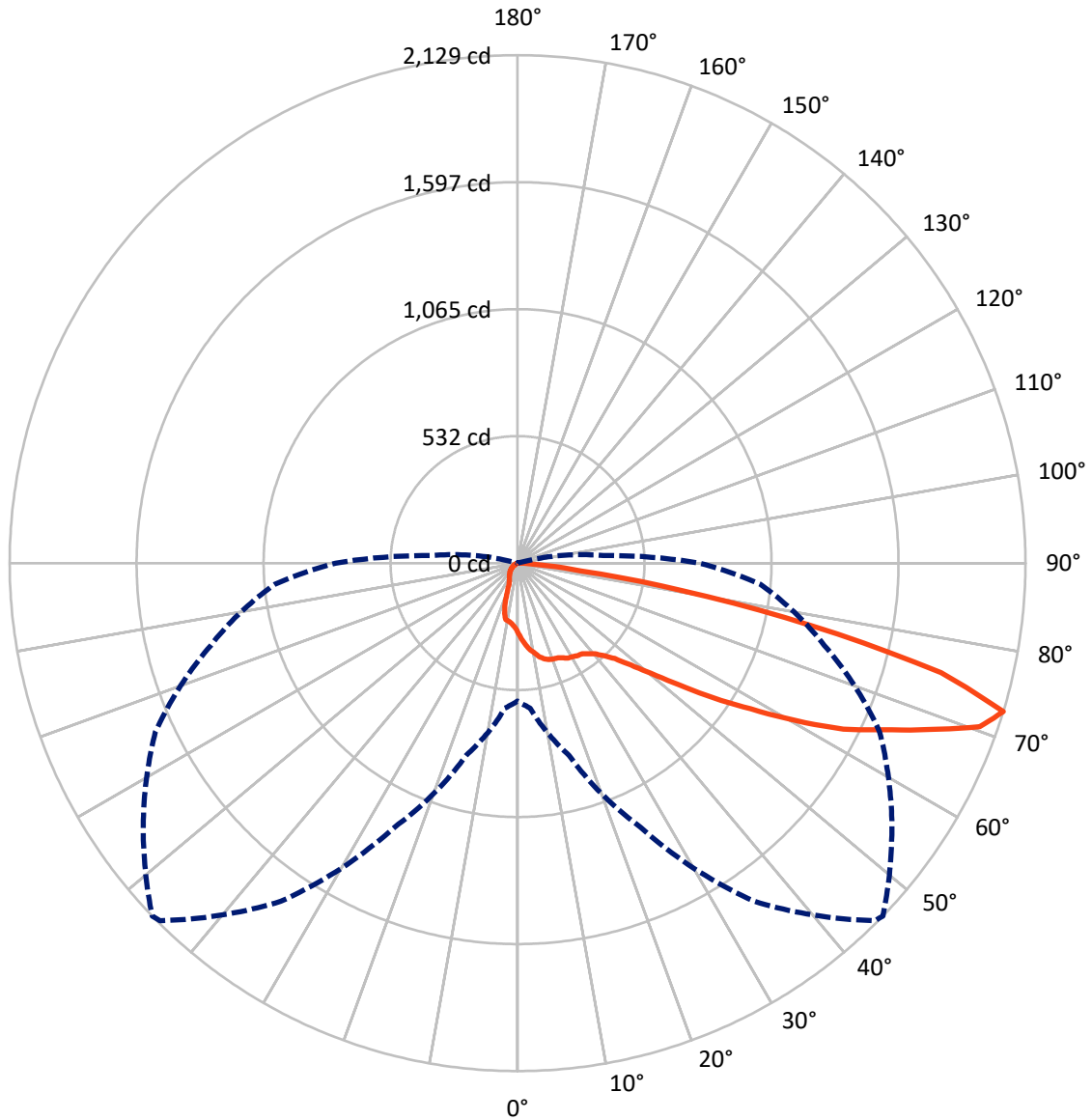
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P673519
CATALOG NUMBER: CCP-SA-1C-727-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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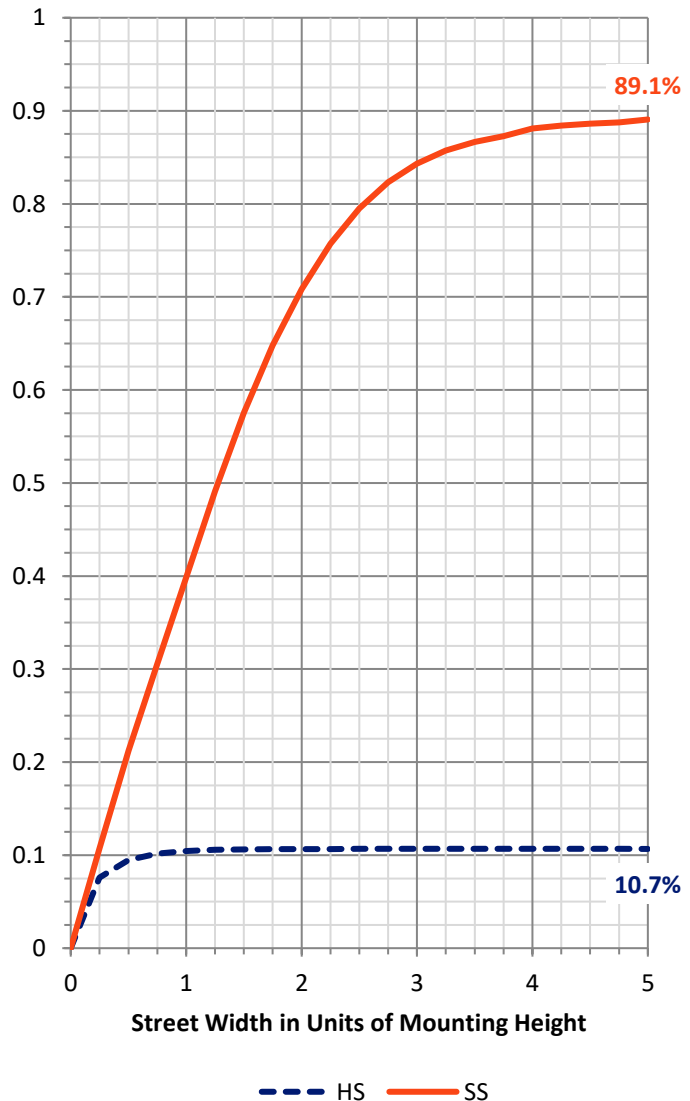
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 293.7 | 0.0 | 293.7 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 2434.3 | 0.0 | 2434.3 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 2728.0 | 0.0 | 2728.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.2 | 1.1 |
| 10°-20° | 88.1 | 3.2 |
| 20°-30° | 137.9 | 5.1 |
| 30°-40° | 193.1 | 7.1 |
| 40°-50° | 318.5 | 11.7 |
| 50°-60° | 572.5 | 21.0 |
| 60°-70° | 829.8 | 30.4 |
| 70°-80° | 517.8 | 19.0 |
| 80°-90° | 41.0 | 1.5 |
| 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° | 2728.0 | 100.0 |
| 0°-180° | 2728.0 | 100.0 |

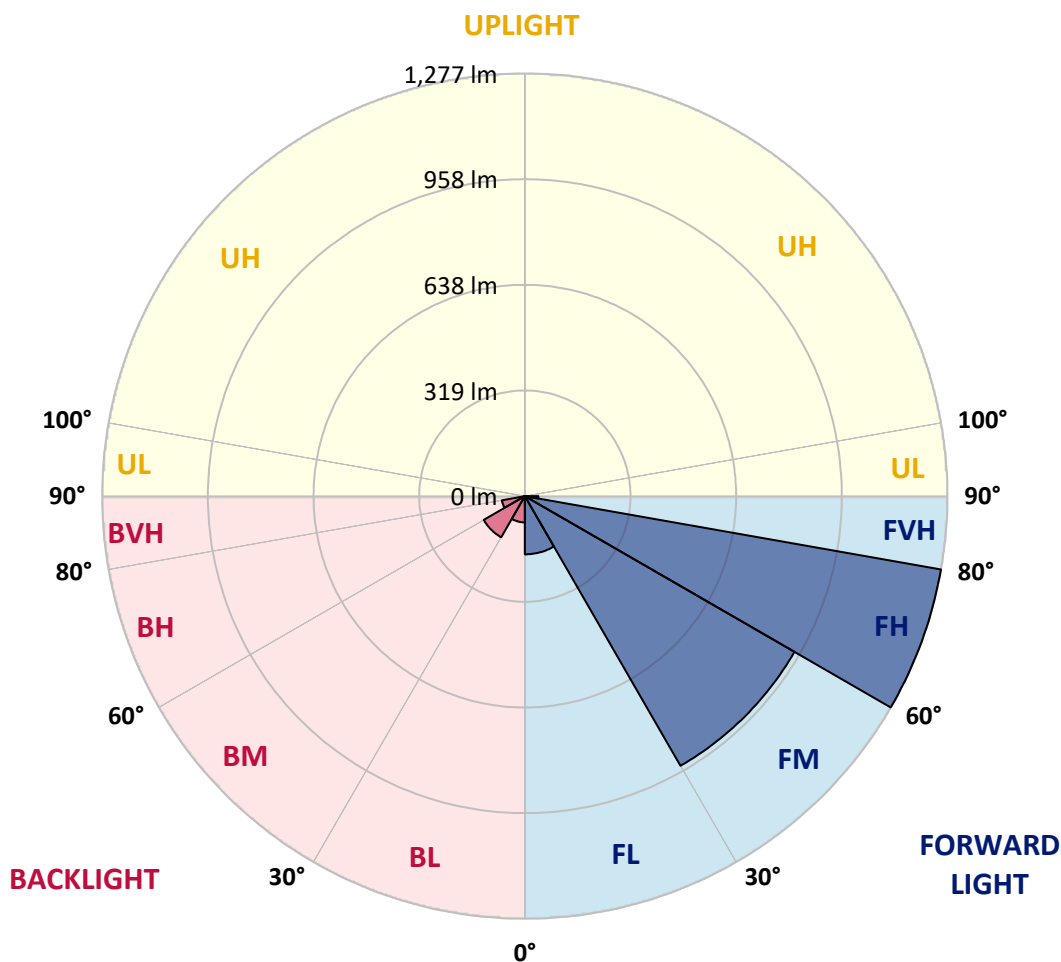


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 175.8 | 6.4 | | | |
| FM (30°-60°) | 940.7 | 34.5 | | | |
| FH (60°-80°) | 1277.0 | 46.8 | | | G1/1800 |
| FVH (80°-90°) | 40.8 | 1.5 | | | G1/100 |
| BL (0°-30°) | 79.4 | 2.9 | B0/110 | | |
| BM (30°-60°) | 143.5 | 5.3 | B0/220 | | |
| BH (60°-80°) | 70.6 | 2.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.2 | 0.0 | | | 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 Medium





REPORT NUMBER: P673519

CATALOG NUMBER: CCP-SA-1C-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 |
| 2.5° | 326.4 | 325.0 | 327.0 | 326.4 | 318.0 | 319.4 | 318.7 | 313.1 | 303.4 | 297.8 | 294.3 |
| 5° | 363.9 | 367.4 | 364.6 | 358.4 | 353.5 | 343.7 | 342.4 | 333.3 | 318.0 | 308.3 | 297.8 |
| 7.5° | 402.9 | 402.9 | 397.3 | 387.6 | 377.1 | 366.7 | 365.3 | 350.0 | 336.8 | 320.1 | 305.5 |
| 10° | 432.1 | 428.6 | 424.5 | 414.0 | 402.2 | 388.3 | 381.3 | 370.2 | 355.6 | 335.4 | 316.6 |
| 12.5° | 457.9 | 452.3 | 445.3 | 430.0 | 416.1 | 400.8 | 402.2 | 384.1 | 374.4 | 356.3 | 328.4 |
| 15° | 472.5 | 467.6 | 461.3 | 447.4 | 425.9 | 418.9 | 416.1 | 405.0 | 387.6 | 369.5 | 343.1 |
| 17.5° | 476.0 | 472.5 | 464.1 | 446.0 | 434.2 | 425.9 | 425.2 | 411.9 | 404.3 | 389.0 | 359.8 |
| 20° | 469.0 | 462.7 | 456.5 | 444.6 | 433.5 | 430.7 | 428.6 | 428.6 | 418.9 | 398.7 | 370.2 |
| 22.5° | 457.2 | 450.2 | 446.7 | 439.8 | 430.7 | 430.0 | 431.4 | 430.0 | 422.4 | 409.2 | 381.3 |
| 25° | 448.1 | 444.6 | 439.1 | 437.0 | 431.4 | 441.9 | 439.8 | 437.7 | 435.6 | 420.3 | 398.7 |
| 27.5° | 450.9 | 450.2 | 446.0 | 437.7 | 433.5 | 444.6 | 450.9 | 451.6 | 450.9 | 435.6 | 414.7 |
| 30° | 452.3 | 448.8 | 444.6 | 442.6 | 443.9 | 455.1 | 455.1 | 470.4 | 464.1 | 448.8 | 430.7 |
| 32.5° | 468.3 | 466.2 | 452.3 | 447.4 | 448.1 | 461.3 | 462.0 | 477.3 | 475.3 | 464.8 | 444.6 |
| 35° | 502.4 | 488.5 | 468.3 | 454.4 | 454.4 | 471.8 | 466.2 | 488.5 | 494.0 | 477.3 | 454.4 |
| 37.5° | 553.2 | 542.8 | 506.6 | 475.3 | 463.4 | 476.0 | 481.5 | 494.0 | 510.7 | 496.1 | 473.9 |
| 40° | 654.1 | 652.0 | 600.5 | 533.0 | 486.4 | 497.5 | 499.6 | 519.1 | 530.2 | 510.1 | 503.8 |
| 42.5° | 801.6 | 791.2 | 743.2 | 636.7 | 528.1 | 523.3 | 530.9 | 543.5 | 569.9 | 553.2 | 537.9 |
| 45° | 945.7 | 940.8 | 892.8 | 773.8 | 604.0 | 574.8 | 570.6 | 592.9 | 631.8 | 613.7 | 601.9 |
| 47.5° | 1050.0 | 1040.3 | 1013.1 | 912.9 | 715.3 | 635.3 | 638.1 | 660.4 | 709.8 | 695.8 | 699.3 |
| 50° | 1130.0 | 1125.2 | 1096.6 | 1041.7 | 855.9 | 730.6 | 725.1 | 747.3 | 814.1 | 823.2 | 832.9 |
| 52.5° | 1217.7 | 1226.8 | 1188.5 | 1141.9 | 1022.2 | 858.7 | 846.1 | 853.8 | 940.1 | 961.0 | 988.1 |
| 55° | 1301.9 | 1316.5 | 1278.3 | 1272.0 | 1196.2 | 1000.6 | 998.5 | 980.4 | 1091.8 | 1094.6 | 1109.2 |
| 57.5° | 1356.9 | 1352.0 | 1349.2 | 1383.3 | 1370.1 | 1163.4 | 1153.0 | 1134.9 | 1235.8 | 1217.7 | 1261.6 |
| 60° | 1361.1 | 1375.0 | 1421.6 | 1505.8 | 1529.5 | 1354.8 | 1339.5 | 1290.1 | 1360.4 | 1317.2 | 1400.7 |
| 62.5° | 1392.4 | 1403.5 | 1489.8 | 1606.0 | 1636.6 | 1523.2 | 1533.6 | 1408.4 | 1466.8 | 1432.7 | 1555.2 |
| 65° | 1313.1 | 1347.8 | 1521.1 | 1683.9 | 1777.2 | 1693.7 | 1683.2 | 1560.8 | 1576.1 | 1544.1 | 1707.6 |
| 67.5° | 1241.4 | 1254.6 | 1435.5 | 1707.6 | 1888.5 | 1864.9 | 1860.7 | 1695.8 | 1688.8 | 1629.7 | 1750.7 |
| 70° | 1009.0 | 1025.0 | 1203.8 | 1586.5 | 1926.1 | 2064.6 | 2054.8 | 1885.0 | 1765.4 | 1583.0 | 1529.5 |
| 72.5° | 578.2 | 610.3 | 834.3 | 1221.9 | 1730.6 | 2120.2 | 2129.3 | 1915.7 | 1674.9 | 1331.1 | 1021.5 |
| 75° | 189.3 | 198.3 | 346.5 | 692.4 | 1294.3 | 1849.5 | 1833.5 | 1646.4 | 1351.3 | 878.8 | 461.3 |
| 77.5° | 64.0 | 65.4 | 102.3 | 250.5 | 717.4 | 1249.7 | 1258.8 | 1176.7 | 830.1 | 365.3 | 127.3 |
| 80° | 32.7 | 34.8 | 50.1 | 93.9 | 295.0 | 680.5 | 695.1 | 670.8 | 347.9 | 107.9 | 30.6 |
| 82.5° | 15.3 | 16.0 | 29.2 | 52.2 | 135.0 | 267.2 | 267.2 | 293.6 | 123.2 | 60.5 | 12.5 |
| 85° | 5.6 | 5.6 | 15.3 | 29.9 | 57.1 | 89.1 | 89.8 | 90.5 | 64.7 | 45.2 | 5.6 |
| 87.5° | 2.1 | 2.1 | 7.7 | 12.5 | 20.9 | 27.1 | 27.1 | 21.6 | 32.7 | 29.9 | 2.1 |
| 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: P673519

CATALOG NUMBER: CCP-SA-1C-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 |
| 2.5° | 292.9 | 288.8 | 285.3 | 280.4 | 274.2 | 270.7 | 271.4 | 267.2 | 267.2 | 265.1 | 264.4 |
| 5° | 292.9 | 288.8 | 279.7 | 271.4 | 265.8 | 258.9 | 255.4 | 252.6 | 252.6 | 251.2 | 251.9 |
| 7.5° | 295.0 | 288.8 | 276.2 | 265.1 | 256.1 | 249.1 | 243.5 | 242.8 | 241.5 | 238.0 | 240.8 |
| 10° | 307.6 | 298.5 | 277.6 | 262.3 | 251.9 | 244.2 | 234.5 | 231.7 | 227.5 | 221.3 | 222.0 |
| 12.5° | 318.0 | 306.2 | 287.4 | 266.5 | 253.3 | 240.8 | 218.5 | 194.1 | 183.7 | 172.6 | 173.3 |
| 15° | 333.3 | 316.6 | 290.9 | 272.1 | 253.3 | 212.9 | 172.6 | 141.3 | 124.6 | 116.2 | 116.2 |
| 17.5° | 341.7 | 327.7 | 300.6 | 275.6 | 233.1 | 173.3 | 122.5 | 95.3 | 92.5 | 93.9 | 93.9 |
| 20° | 359.1 | 340.3 | 311.7 | 278.3 | 199.7 | 123.2 | 89.8 | 87.0 | 88.4 | 91.2 | 90.5 |
| 22.5° | 370.2 | 351.4 | 320.1 | 265.8 | 154.5 | 88.4 | 84.2 | 82.8 | 84.2 | 87.7 | 87.7 |
| 25° | 379.2 | 367.4 | 333.3 | 235.2 | 109.2 | 80.0 | 78.6 | 80.0 | 81.4 | 82.8 | 84.9 |
| 27.5° | 401.5 | 381.3 | 342.4 | 195.5 | 78.6 | 74.5 | 75.8 | 76.5 | 76.5 | 78.6 | 79.3 |
| 30° | 416.1 | 400.1 | 349.3 | 151.0 | 69.6 | 68.9 | 70.3 | 71.0 | 71.7 | 73.8 | 74.5 |
| 32.5° | 430.0 | 424.5 | 340.3 | 102.3 | 65.4 | 64.0 | 63.3 | 64.0 | 66.8 | 68.9 | 68.2 |
| 35° | 450.2 | 446.7 | 327.0 | 71.0 | 61.2 | 58.5 | 57.1 | 57.8 | 59.8 | 61.9 | 61.2 |
| 37.5° | 474.6 | 478.0 | 295.0 | 61.9 | 57.1 | 53.6 | 50.8 | 50.8 | 51.5 | 53.6 | 54.3 |
| 40° | 503.1 | 512.1 | 257.5 | 57.8 | 54.3 | 50.1 | 47.3 | 43.8 | 43.1 | 42.4 | 43.1 |
| 42.5° | 555.3 | 565.7 | 215.0 | 55.0 | 50.1 | 45.2 | 41.1 | 36.9 | 33.4 | 31.3 | 31.3 |
| 45° | 628.3 | 620.0 | 159.3 | 52.2 | 48.0 | 41.1 | 34.8 | 29.9 | 25.1 | 23.0 | 23.0 |
| 47.5° | 729.2 | 700.7 | 109.2 | 49.4 | 44.5 | 36.2 | 29.2 | 23.0 | 18.8 | 16.7 | 16.7 |
| 50° | 869.1 | 775.2 | 71.0 | 46.6 | 42.4 | 31.3 | 23.7 | 16.7 | 13.9 | 13.2 | 13.9 |
| 52.5° | 1001.3 | 851.0 | 56.4 | 43.1 | 38.3 | 27.1 | 18.1 | 13.9 | 12.5 | 11.8 | 11.8 |
| 55° | 1123.1 | 889.3 | 50.1 | 39.7 | 34.8 | 22.3 | 15.3 | 11.8 | 11.1 | 10.4 | 10.4 |
| 57.5° | 1226.1 | 902.5 | 43.1 | 34.8 | 27.8 | 17.4 | 12.5 | 10.4 | 9.0 | 8.4 | 8.4 |
| 60° | 1315.1 | 906.0 | 33.4 | 27.8 | 20.2 | 13.2 | 10.4 | 9.0 | 7.7 | 6.3 | 6.3 |
| 62.5° | 1386.1 | 881.6 | 23.7 | 19.5 | 13.9 | 10.4 | 9.0 | 6.3 | 4.2 | 2.8 | 2.1 |
| 65° | 1442.5 | 832.9 | 16.0 | 13.2 | 9.0 | 7.7 | 5.6 | 2.8 | 0.7 | 0.0 | 0.0 |
| 67.5° | 1376.4 | 722.3 | 12.5 | 9.7 | 6.3 | 4.9 | 2.8 | 0.7 | 0.0 | 0.0 | 0.0 |
| 70° | 1122.4 | 560.2 | 9.0 | 6.3 | 4.2 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 764.0 | 361.1 | 7.0 | 4.2 | 2.1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 343.1 | 129.4 | 4.9 | 2.8 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 83.5 | 30.6 | 3.5 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 22.3 | 7.7 | 2.1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 8.4 | 2.8 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.5 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.4 | 0.7 | 0.0 | 0.0 | 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 |

(END OF REPORT)