

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: P671026

Luminaire Tested: **CCP-SA-1C-840-U-T4FT**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671026
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1C-840-U-T4FT
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ T4FT distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

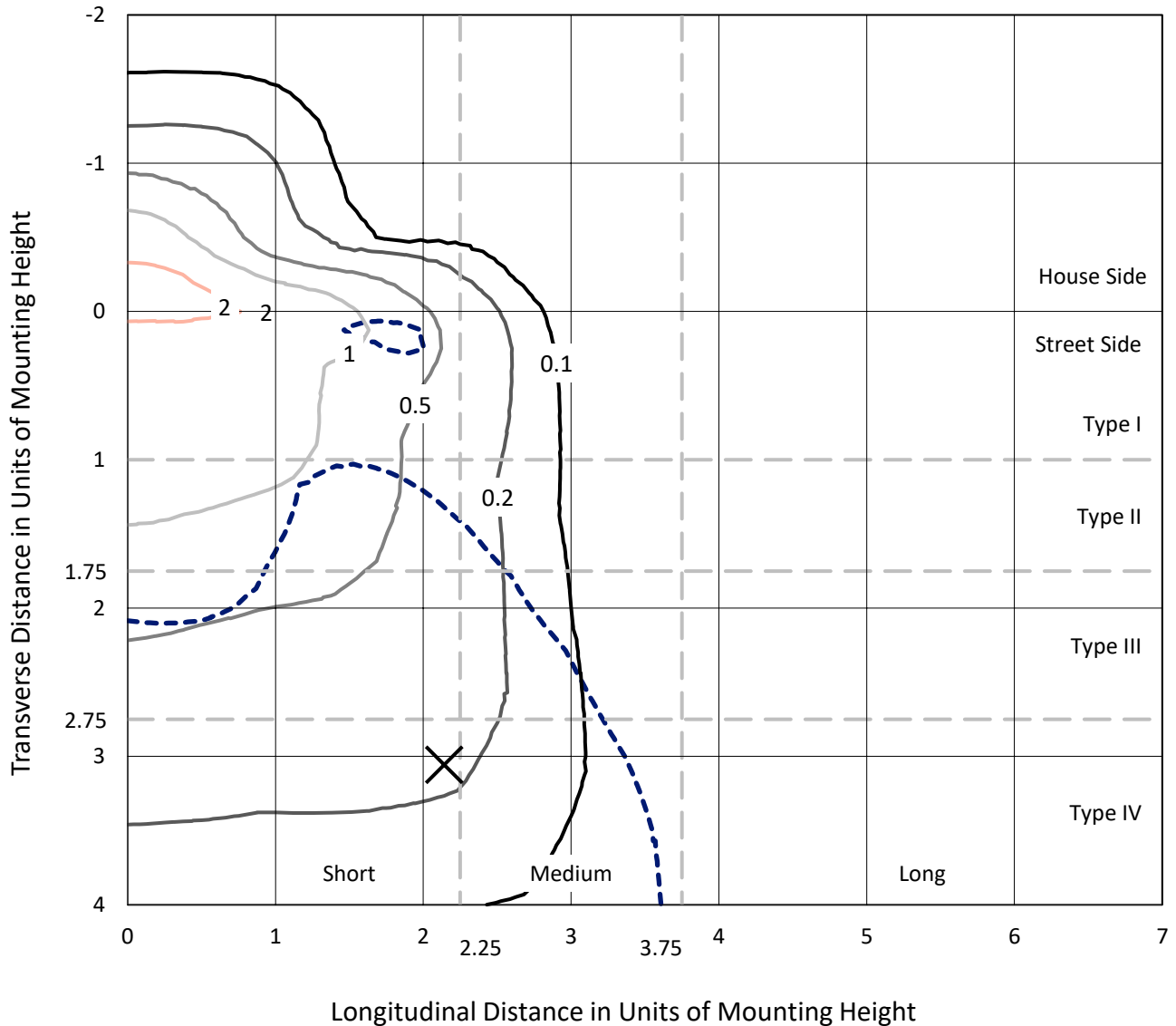
Lumens per Lamp: N/A
Luminaire Lumens: 3852.4 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

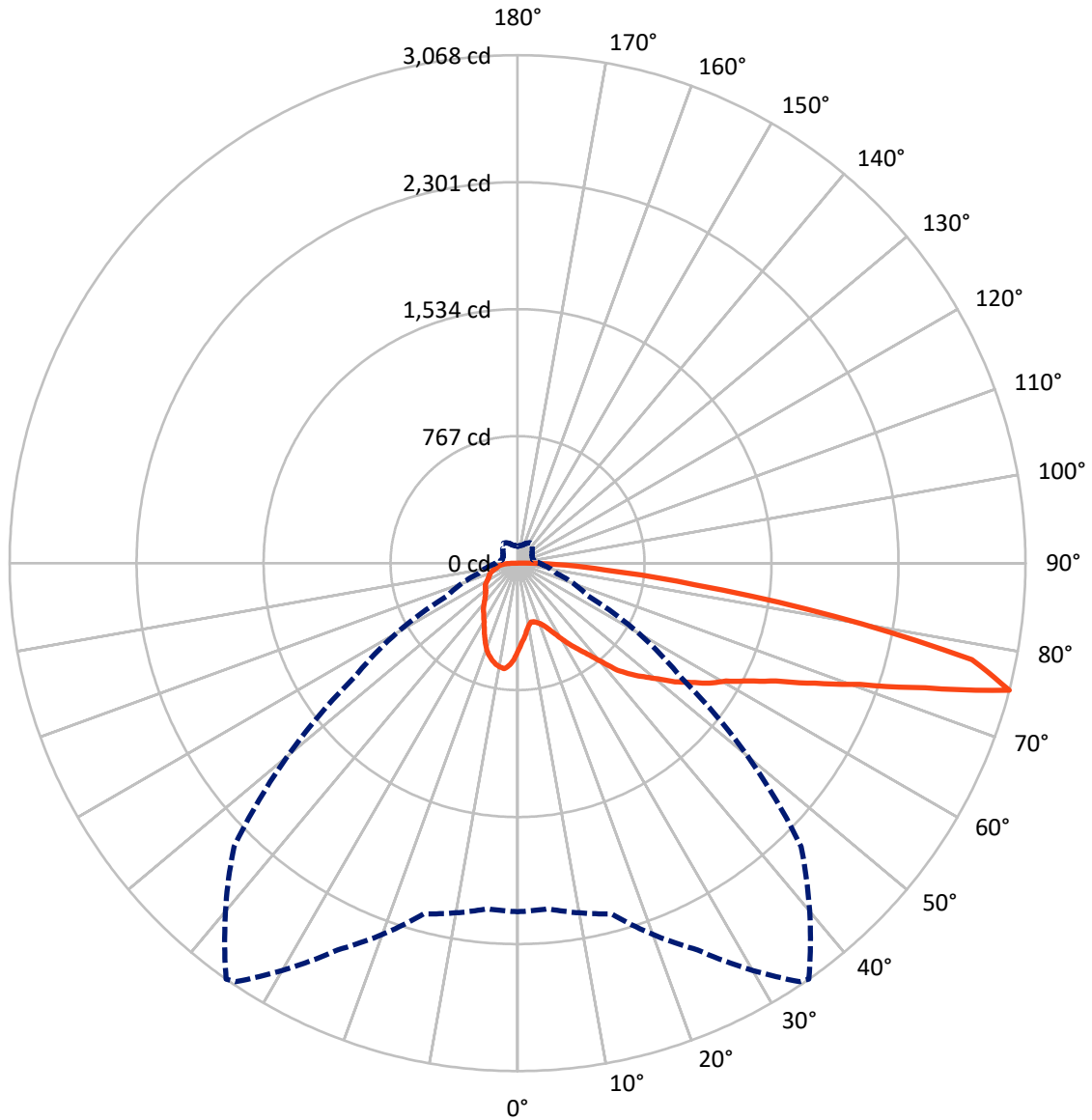
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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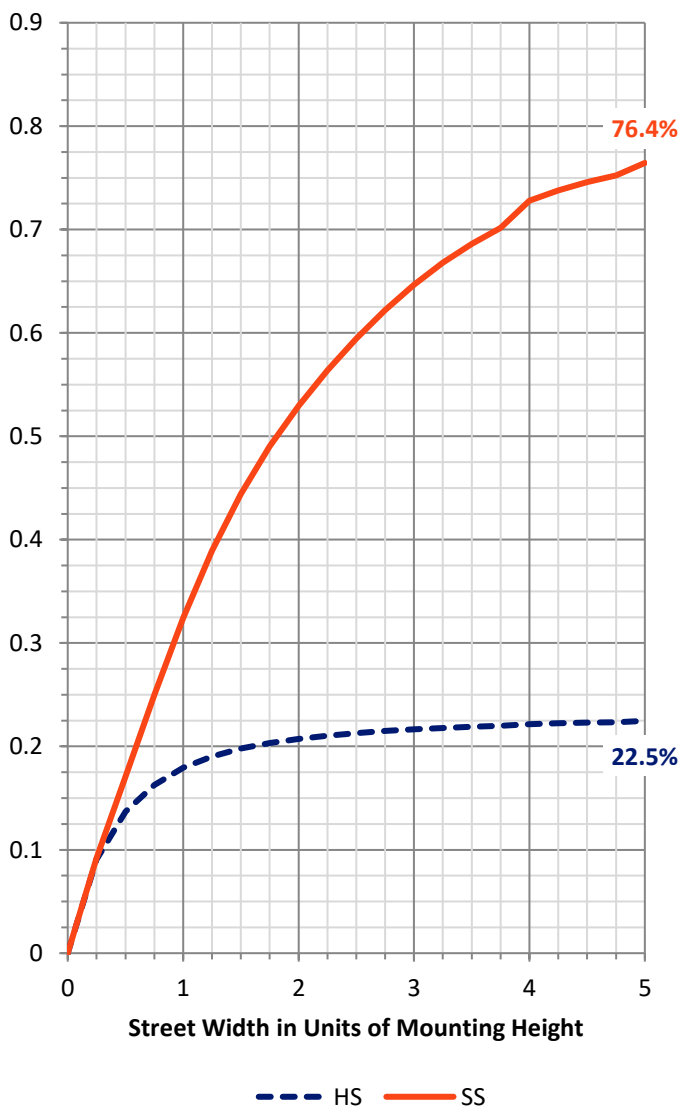
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 885.4 | 0.0 | 885.4 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 2967.0 | 0.0 | 2967.0 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 3852.4 | 0.0 | 3852.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.3 | 1.3 |
| 10°-20° | 146.0 | 3.8 |
| 20°-30° | 242.2 | 6.3 |
| 30°-40° | 359.0 | 9.3 |
| 40°-50° | 517.7 | 13.4 |
| 50°-60° | 711.9 | 18.5 |
| 60°-70° | 879.3 | 22.8 |
| 70°-80° | 804.5 | 20.9 |
| 80°-90° | 141.6 | 3.7 |
| 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° | 3852.4 | 100.0 |
| 0°-180° | 3852.4 | 100.0 |



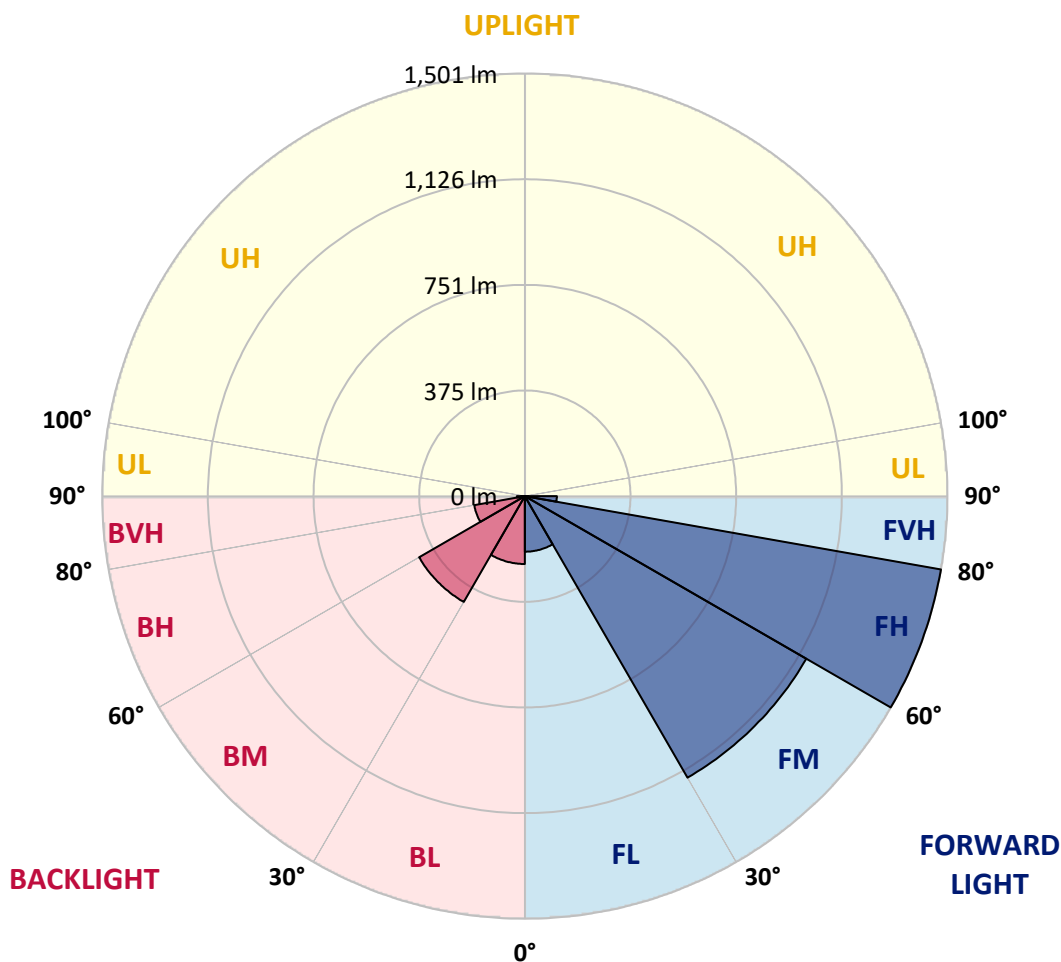
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 197.5 | 5.1 | | | |
| FM (30°-60°) | 1154.7 | 30.0 | | | |
| FH (60°-80°) | 1501.2 | 39.0 | | | G1/1800 |
| FVH (80°-90°) | 113.7 | 3.0 | | | G2/225 |
| BL (0°-30°) | 241.0 | 6.3 | B1/500 | | |
| BM (30°-60°) | 433.9 | 11.3 | B1/1000 | | |
| BH (60°-80°) | 182.6 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 28.0 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 |
| 2.5° | 478.1 | 473.9 | 478.1 | 481.0 | 481.0 | 481.0 | 485.2 | 498.0 | 506.5 | 512.2 | 522.1 |
| 5° | 428.5 | 429.9 | 432.7 | 439.8 | 444.1 | 446.9 | 454.0 | 469.6 | 482.4 | 500.9 | 522.1 |
| 7.5° | 384.5 | 387.3 | 391.6 | 398.7 | 408.6 | 407.2 | 422.8 | 444.1 | 468.2 | 492.3 | 523.6 |
| 10° | 361.8 | 367.5 | 368.9 | 370.3 | 380.2 | 380.2 | 401.5 | 425.7 | 455.4 | 486.7 | 523.6 |
| 12.5° | 366.1 | 366.1 | 361.8 | 360.4 | 366.1 | 364.6 | 383.1 | 411.5 | 444.1 | 488.1 | 529.2 |
| 15° | 378.8 | 378.8 | 370.3 | 361.8 | 370.3 | 367.5 | 383.1 | 405.8 | 444.1 | 489.5 | 540.6 |
| 17.5° | 395.9 | 397.3 | 387.3 | 373.2 | 376.0 | 377.4 | 388.8 | 410.0 | 444.1 | 492.3 | 556.2 |
| 20° | 429.9 | 422.8 | 407.2 | 384.5 | 394.4 | 390.2 | 407.2 | 425.7 | 452.6 | 503.7 | 578.9 |
| 22.5° | 459.7 | 459.7 | 429.9 | 410.0 | 411.5 | 411.5 | 427.1 | 442.7 | 465.4 | 519.3 | 595.9 |
| 25° | 507.9 | 505.1 | 468.2 | 438.4 | 441.3 | 442.7 | 451.2 | 469.6 | 486.7 | 527.8 | 617.2 |
| 27.5° | 569.0 | 561.9 | 525.0 | 490.9 | 479.6 | 483.8 | 488.1 | 502.3 | 506.5 | 542.0 | 642.7 |
| 30° | 634.2 | 624.3 | 593.1 | 539.2 | 533.5 | 534.9 | 527.8 | 536.3 | 530.6 | 564.7 | 668.3 |
| 32.5° | 675.4 | 675.4 | 645.6 | 605.8 | 590.2 | 590.2 | 566.1 | 571.8 | 571.8 | 586.0 | 713.7 |
| 35° | 710.8 | 708.0 | 688.1 | 658.3 | 648.4 | 642.7 | 618.6 | 627.1 | 612.9 | 627.1 | 777.5 |
| 37.5° | 764.8 | 756.2 | 747.7 | 727.9 | 708.0 | 703.7 | 691.0 | 696.6 | 676.8 | 669.7 | 849.9 |
| 40° | 827.2 | 822.9 | 814.4 | 805.9 | 786.0 | 784.6 | 770.4 | 776.1 | 754.8 | 727.9 | 922.2 |
| 42.5° | 919.4 | 906.6 | 879.7 | 872.6 | 876.8 | 882.5 | 876.8 | 866.9 | 828.6 | 794.5 | 1000.3 |
| 45° | 1011.6 | 991.8 | 940.7 | 929.3 | 962.0 | 957.7 | 981.8 | 977.6 | 915.2 | 861.2 | 1082.6 |
| 47.5° | 1071.2 | 1054.2 | 1013.1 | 1006.0 | 1020.1 | 1025.8 | 1098.2 | 1085.4 | 986.1 | 922.2 | 1162.0 |
| 50° | 1113.8 | 1115.2 | 1061.3 | 1079.7 | 1098.2 | 1098.2 | 1189.0 | 1187.6 | 1072.6 | 997.4 | 1265.6 |
| 52.5° | 1176.2 | 1156.4 | 1133.7 | 1150.7 | 1176.2 | 1190.4 | 1302.5 | 1271.3 | 1126.6 | 1061.3 | 1381.9 |
| 55° | 1208.9 | 1200.3 | 1180.5 | 1210.3 | 1264.2 | 1271.3 | 1390.5 | 1366.3 | 1187.6 | 1136.5 | 1501.1 |
| 57.5° | 1221.6 | 1228.7 | 1261.3 | 1274.1 | 1349.3 | 1367.8 | 1469.9 | 1435.9 | 1244.3 | 1230.1 | 1593.4 |
| 60° | 1278.4 | 1268.4 | 1312.4 | 1363.5 | 1435.9 | 1445.8 | 1569.2 | 1495.5 | 1299.7 | 1291.1 | 1623.2 |
| 62.5° | 1393.3 | 1367.8 | 1391.9 | 1452.9 | 1553.6 | 1566.4 | 1674.2 | 1574.9 | 1323.8 | 1332.3 | 1621.7 |
| 65° | 1560.7 | 1542.3 | 1506.8 | 1555.0 | 1696.9 | 1715.4 | 1797.7 | 1643.0 | 1316.7 | 1318.1 | 1506.8 |
| 67.5° | 1757.9 | 1728.1 | 1691.3 | 1721.1 | 1894.1 | 1936.7 | 1948.1 | 1672.8 | 1267.0 | 1238.6 | 1225.9 |
| 70° | 1931.0 | 1911.2 | 1887.1 | 1938.1 | 2179.3 | 2194.9 | 2135.4 | 1654.4 | 1129.4 | 994.6 | 817.3 |
| 72.5° | 2092.8 | 2082.9 | 2097.0 | 2288.6 | 2565.3 | 2575.2 | 2311.3 | 1538.0 | 892.4 | 603.0 | 380.2 |
| 75° | 2105.6 | 2095.6 | 2193.5 | 2578.0 | 3049.1 | 3067.5 | 2420.5 | 1206.0 | 471.1 | 245.5 | 160.3 |
| 77.5° | 1425.9 | 1455.7 | 1638.8 | 2257.4 | 2800.8 | 2805.0 | 1979.3 | 560.4 | 194.4 | 144.7 | 112.1 |
| 80° | 350.5 | 388.8 | 617.2 | 1167.7 | 1888.5 | 1935.3 | 1084.0 | 188.7 | 127.7 | 110.7 | 83.7 |
| 82.5° | 127.7 | 139.0 | 251.1 | 527.8 | 1061.3 | 1079.7 | 378.8 | 102.2 | 92.2 | 85.1 | 61.0 |
| 85° | 61.0 | 62.4 | 119.2 | 259.6 | 536.3 | 530.6 | 136.2 | 61.0 | 66.7 | 58.2 | 36.9 |
| 87.5° | 25.5 | 25.5 | 52.5 | 120.6 | 236.9 | 229.9 | 44.0 | 28.4 | 38.3 | 34.1 | 18.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: CCP-SA-1C-840-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 | 527.8 |
| 2.5° | 529.2 | 532.1 | 543.4 | 551.9 | 560.4 | 567.5 | 578.9 | 578.9 | 586.0 | 586.0 | 586.0 |
| 5° | 527.8 | 543.4 | 561.9 | 581.7 | 594.5 | 607.3 | 618.6 | 620.0 | 624.3 | 630.0 | 631.4 |
| 7.5° | 533.5 | 549.1 | 578.9 | 607.3 | 622.9 | 628.5 | 642.7 | 638.5 | 638.5 | 638.5 | 642.7 |
| 10° | 544.8 | 561.9 | 603.0 | 628.5 | 639.9 | 641.3 | 637.1 | 634.2 | 625.7 | 622.9 | 618.6 |
| 12.5° | 553.3 | 583.1 | 624.3 | 644.2 | 639.9 | 635.6 | 625.7 | 611.5 | 601.6 | 598.7 | 598.7 |
| 15° | 574.6 | 604.4 | 642.7 | 649.8 | 642.7 | 620.0 | 607.3 | 591.7 | 583.1 | 570.4 | 576.0 |
| 17.5° | 593.1 | 627.1 | 661.2 | 652.7 | 638.5 | 603.0 | 584.6 | 561.9 | 550.5 | 536.3 | 536.3 |
| 20° | 617.2 | 648.4 | 678.2 | 655.5 | 624.3 | 586.0 | 556.2 | 527.8 | 512.2 | 498.0 | 500.9 |
| 22.5° | 644.2 | 672.5 | 688.1 | 644.2 | 603.0 | 559.0 | 517.9 | 490.9 | 471.1 | 462.5 | 465.4 |
| 25° | 665.4 | 696.6 | 693.8 | 625.7 | 577.5 | 525.0 | 479.6 | 454.0 | 449.8 | 441.3 | 441.3 |
| 27.5° | 692.4 | 725.0 | 689.6 | 603.0 | 534.9 | 471.1 | 442.7 | 432.7 | 432.7 | 428.5 | 431.3 |
| 30° | 727.9 | 750.6 | 679.6 | 570.4 | 481.0 | 422.8 | 408.6 | 414.3 | 424.2 | 420.0 | 421.4 |
| 32.5° | 786.0 | 783.2 | 671.1 | 533.5 | 424.2 | 376.0 | 385.9 | 397.3 | 405.8 | 410.0 | 412.9 |
| 35° | 842.8 | 824.3 | 661.2 | 483.8 | 371.7 | 353.3 | 361.8 | 374.6 | 390.2 | 394.4 | 395.9 |
| 37.5° | 899.5 | 866.9 | 644.2 | 422.8 | 339.1 | 333.4 | 341.9 | 349.0 | 361.8 | 364.6 | 367.5 |
| 40° | 959.1 | 895.3 | 614.4 | 363.2 | 312.1 | 312.1 | 317.8 | 319.2 | 326.3 | 330.6 | 333.4 |
| 42.5° | 1011.6 | 922.2 | 560.4 | 307.9 | 283.8 | 293.7 | 295.1 | 292.3 | 286.6 | 289.4 | 290.9 |
| 45° | 1075.5 | 952.0 | 498.0 | 268.2 | 262.5 | 275.3 | 278.1 | 266.7 | 256.8 | 251.1 | 248.3 |
| 47.5° | 1137.9 | 983.3 | 444.1 | 235.5 | 242.6 | 262.5 | 262.5 | 249.7 | 232.7 | 218.5 | 212.8 |
| 50° | 1194.7 | 1014.5 | 400.1 | 215.7 | 222.8 | 252.6 | 255.4 | 231.3 | 212.8 | 195.8 | 193.0 |
| 52.5° | 1289.7 | 1067.0 | 354.7 | 200.1 | 211.4 | 245.5 | 244.0 | 222.8 | 198.6 | 180.2 | 178.8 |
| 55° | 1373.4 | 1119.5 | 295.1 | 184.4 | 200.1 | 235.5 | 239.8 | 214.2 | 181.6 | 164.6 | 161.7 |
| 57.5° | 1434.4 | 1132.2 | 235.5 | 168.8 | 188.7 | 224.2 | 229.9 | 197.2 | 170.3 | 156.1 | 154.7 |
| 60° | 1445.8 | 1082.6 | 191.5 | 156.1 | 173.1 | 208.6 | 212.8 | 187.3 | 161.7 | 150.4 | 147.6 |
| 62.5° | 1393.3 | 987.5 | 163.2 | 144.7 | 160.3 | 193.0 | 201.5 | 175.9 | 153.2 | 143.3 | 141.9 |
| 65° | 1274.1 | 848.5 | 143.3 | 134.8 | 151.8 | 181.6 | 191.5 | 167.4 | 146.1 | 137.6 | 136.2 |
| 67.5° | 1008.8 | 651.2 | 127.7 | 127.7 | 140.5 | 170.3 | 184.4 | 161.7 | 139.0 | 133.4 | 132.0 |
| 70° | 659.8 | 391.6 | 116.3 | 117.8 | 132.0 | 160.3 | 175.9 | 154.7 | 130.5 | 129.1 | 126.3 |
| 72.5° | 283.8 | 180.2 | 103.6 | 107.8 | 119.2 | 143.3 | 163.2 | 144.7 | 120.6 | 116.3 | 112.1 |
| 75° | 130.5 | 109.3 | 93.6 | 96.5 | 106.4 | 126.3 | 147.6 | 133.4 | 112.1 | 105.0 | 100.7 |
| 77.5° | 92.2 | 79.5 | 78.0 | 83.7 | 90.8 | 109.3 | 130.5 | 124.9 | 103.6 | 97.9 | 95.1 |
| 80° | 68.1 | 61.0 | 65.3 | 70.9 | 75.2 | 100.7 | 123.4 | 114.9 | 95.1 | 86.5 | 82.3 |
| 82.5° | 48.2 | 45.4 | 51.1 | 56.8 | 61.0 | 88.0 | 113.5 | 100.7 | 79.5 | 72.4 | 65.3 |
| 85° | 28.4 | 29.8 | 35.5 | 38.3 | 42.6 | 65.3 | 95.1 | 80.9 | 61.0 | 46.8 | 45.4 |
| 87.5° | 12.8 | 12.8 | 17.0 | 18.4 | 21.3 | 38.3 | 63.8 | 51.1 | 38.3 | 29.8 | 28.4 |
| 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)