

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: P671467

Luminaire Tested: **CCP-SA-1A-850-U-SL3**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671467
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1A-850-U-SL3
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ SL3 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

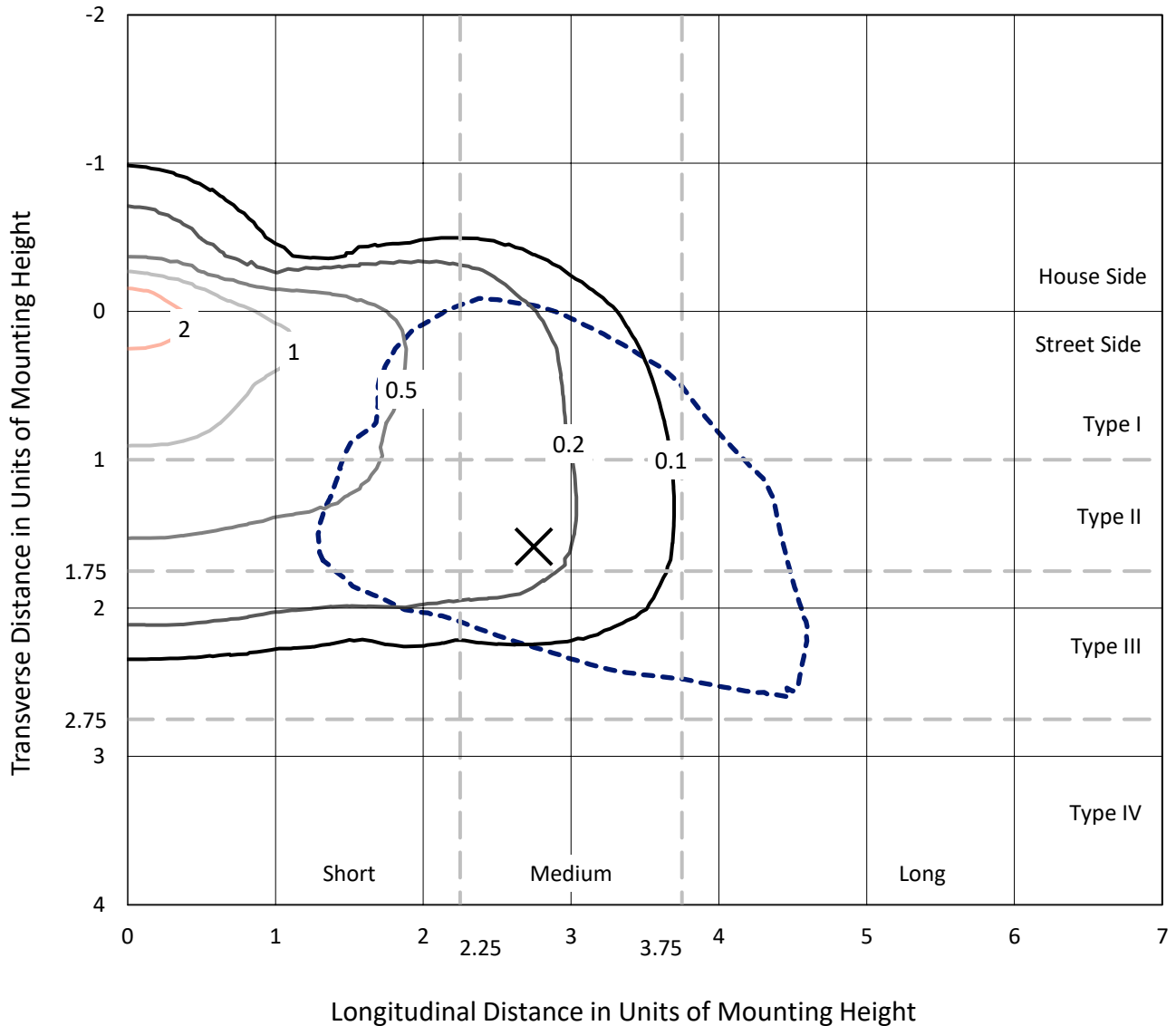
Lumens per Lamp: N/A
Luminaire Lumens: 2360.4 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 18
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: P671467
 CATALOG NUMBER: CCP-SA-1A-850-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

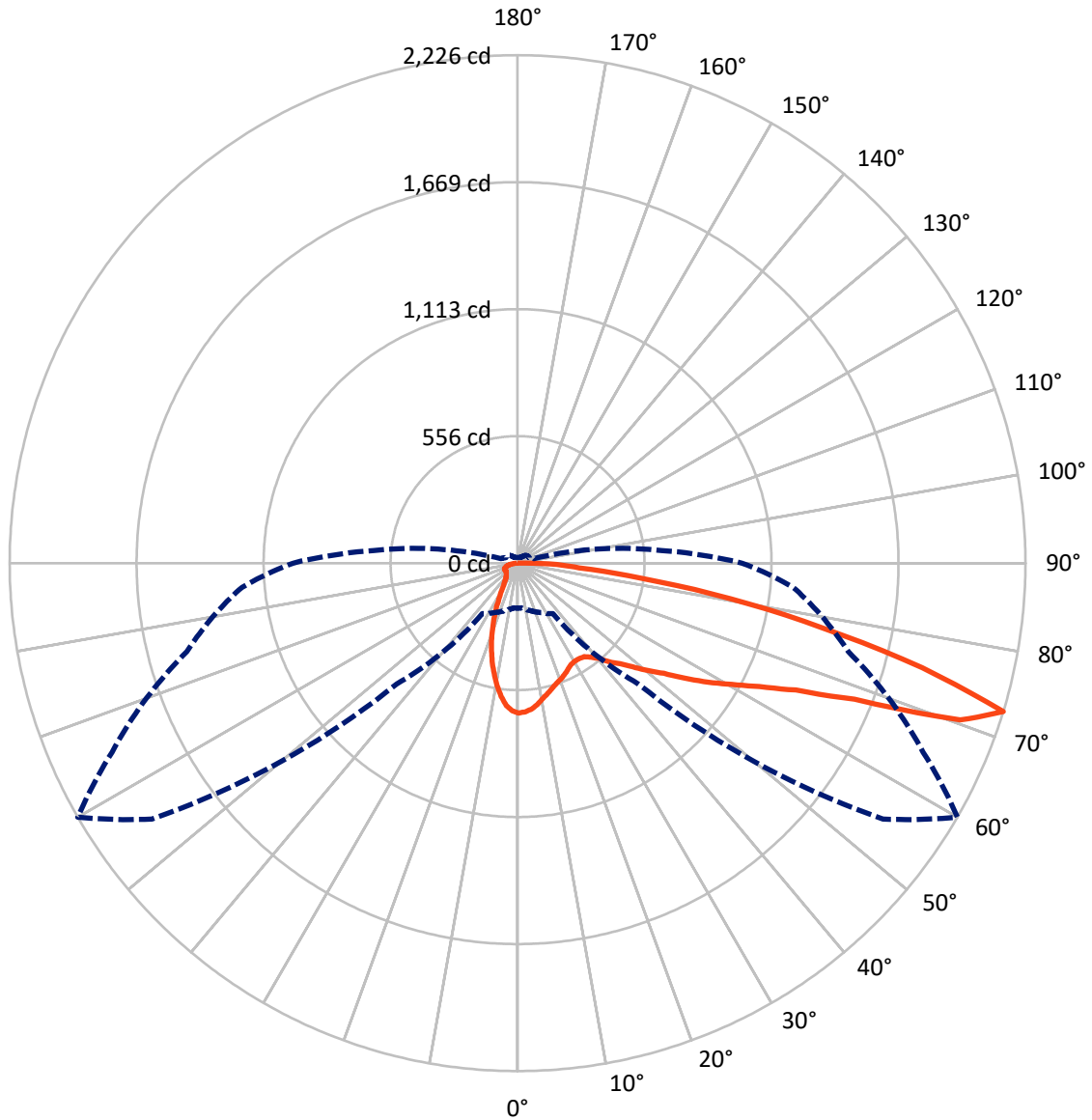
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P671467
CATALOG NUMBER: CCP-SA-1A-850-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P671467

CATALOG NUMBER: CCP-SA-1A-850-U-SL3

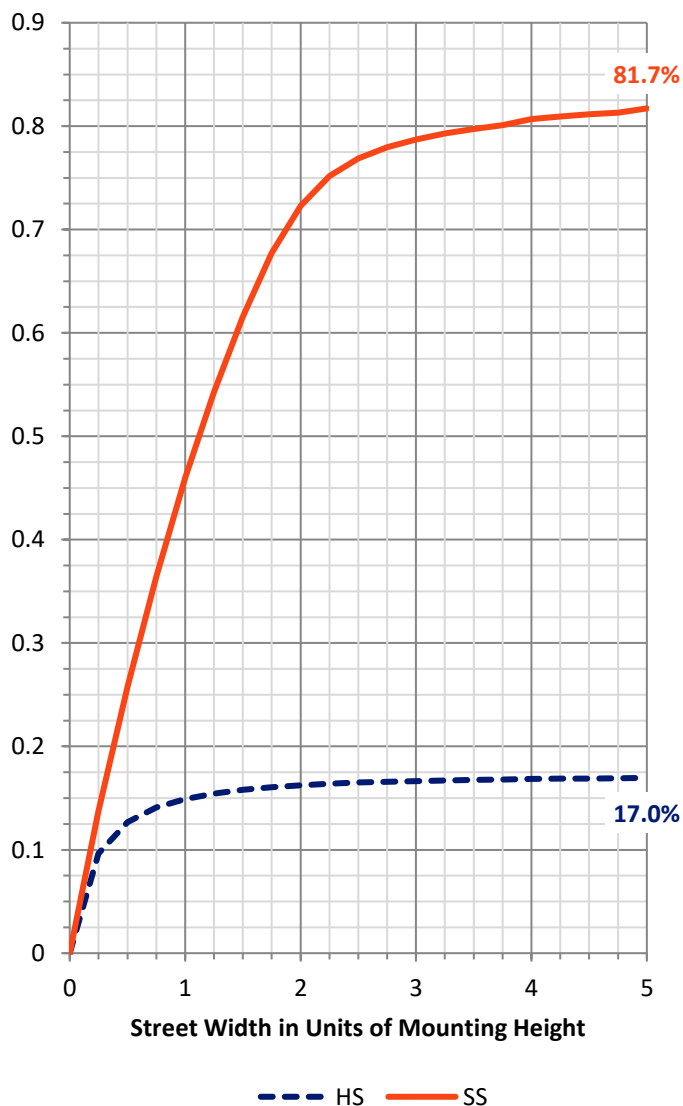
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 405.5 | 0.0 | 405.5 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 1954.9 | 0.0 | 1954.9 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 2360.4 | 0.0 | 2360.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.0 | 2.4 |
| 10°-20° | 129.2 | 5.5 |
| 20°-30° | 165.3 | 7.0 |
| 30°-40° | 211.5 | 9.0 |
| 40°-50° | 290.1 | 12.3 |
| 50°-60° | 419.6 | 17.8 |
| 60°-70° | 575.6 | 24.4 |
| 70°-80° | 431.9 | 18.3 |
| 80°-90° | 80.3 | 3.4 |
| 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° | 2360.4 | 100.0 |
| 0°-180° | 2360.4 | 100.0 |

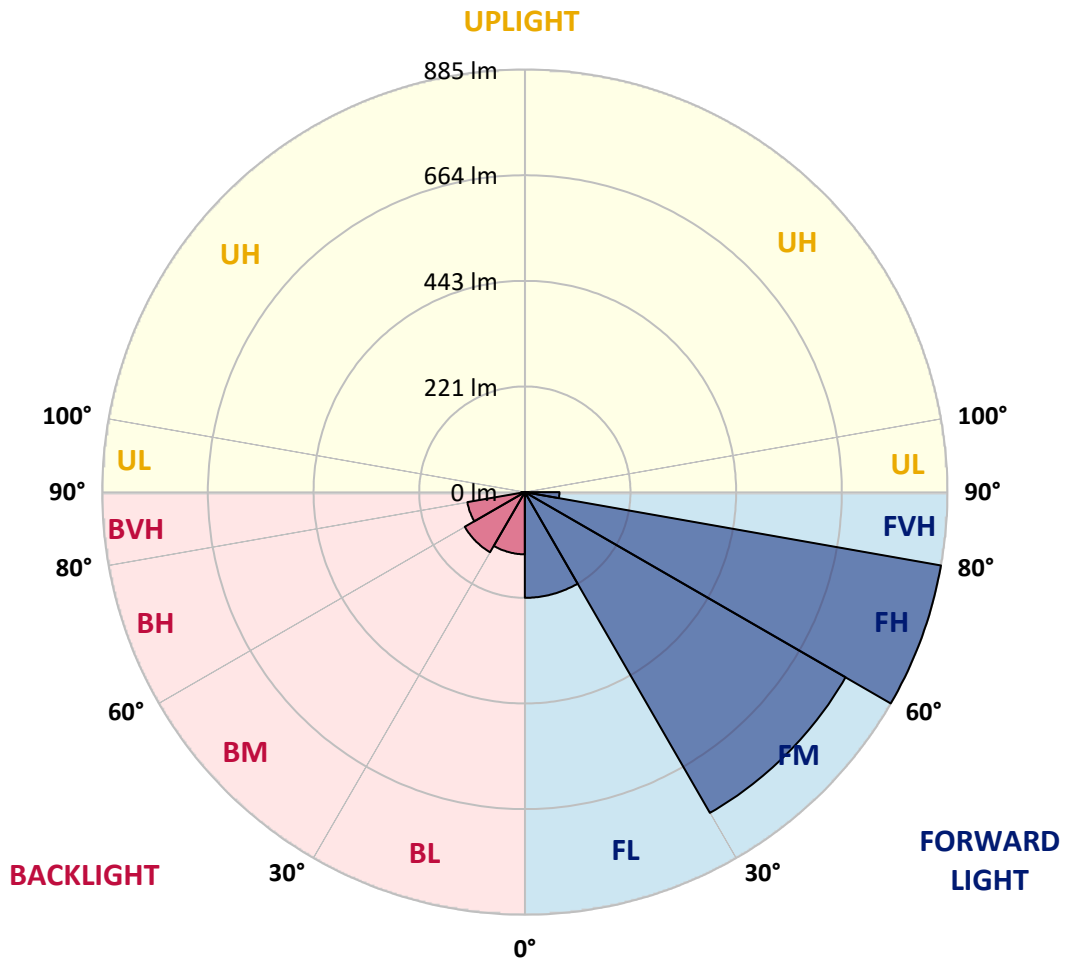


REPORT NUMBER: P671467
 CATALOG NUMBER: CCP-SA-1A-850-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 221.3 | 9.4 | | | |
| FM (30°-60°) | 775.8 | 32.9 | | | |
| FH (60°-80°) | 885.3 | 37.5 | | | G1/1800 |
| FVH (80°-90°) | 72.5 | 3.1 | | | G1/100 |
| BL (0°-30°) | 130.2 | 5.5 | B1/500 | | |
| BM (30°-60°) | 145.3 | 6.2 | B0/220 | | |
| BH (60°-80°) | 122.2 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.8 | 0.3 | | | 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 Medium





REPORT NUMBER: P671467
 CATALOG NUMBER: CCP-SA-1A-850-U-SL3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 |
| 2.5° | 643.2 | 649.3 | 651.1 | 651.1 | 656.4 | 650.2 | 659.0 | 652.0 | 653.7 | 656.4 | 654.6 |
| 5° | 612.4 | 623.0 | 616.8 | 628.3 | 623.9 | 631.8 | 642.3 | 642.3 | 639.7 | 645.0 | 640.6 |
| 7.5° | 582.6 | 579.0 | 589.6 | 589.6 | 596.6 | 607.2 | 616.0 | 624.7 | 625.6 | 627.4 | 626.5 |
| 10° | 542.1 | 546.5 | 551.8 | 558.8 | 567.6 | 578.2 | 596.6 | 603.7 | 605.4 | 616.0 | 613.3 |
| 12.5° | 508.8 | 514.9 | 518.4 | 532.5 | 540.4 | 555.3 | 576.4 | 586.1 | 587.0 | 601.9 | 601.9 |
| 15° | 484.2 | 487.7 | 495.6 | 500.8 | 518.4 | 539.5 | 559.7 | 568.5 | 578.2 | 594.0 | 589.6 |
| 17.5° | 467.5 | 471.9 | 475.4 | 482.4 | 499.1 | 516.7 | 548.3 | 553.6 | 565.0 | 587.8 | 582.6 |
| 20° | 457.8 | 458.7 | 463.9 | 468.3 | 483.3 | 500.0 | 528.1 | 542.1 | 557.1 | 577.3 | 572.0 |
| 22.5° | 459.5 | 456.0 | 455.2 | 461.3 | 463.9 | 479.8 | 514.0 | 529.0 | 550.1 | 573.8 | 565.0 |
| 25° | 463.1 | 463.9 | 462.2 | 456.9 | 457.8 | 471.9 | 494.7 | 514.0 | 537.8 | 572.9 | 555.3 |
| 27.5° | 471.9 | 476.2 | 469.2 | 463.9 | 458.7 | 463.9 | 487.7 | 501.7 | 528.1 | 577.3 | 554.4 |
| 30° | 480.6 | 485.0 | 483.3 | 475.4 | 464.8 | 463.1 | 479.8 | 497.3 | 522.8 | 580.8 | 554.4 |
| 32.5° | 493.8 | 500.0 | 493.8 | 496.5 | 484.2 | 476.2 | 482.4 | 498.2 | 528.1 | 593.1 | 555.3 |
| 35° | 508.8 | 514.0 | 515.8 | 509.6 | 507.0 | 492.1 | 495.6 | 503.5 | 533.4 | 607.2 | 564.1 |
| 37.5° | 525.4 | 531.6 | 536.9 | 537.8 | 529.0 | 520.2 | 518.4 | 522.8 | 546.5 | 631.8 | 573.8 |
| 40° | 536.9 | 540.4 | 550.9 | 559.7 | 562.4 | 550.1 | 549.2 | 549.2 | 570.3 | 653.7 | 591.4 |
| 42.5° | 556.2 | 554.4 | 569.4 | 585.2 | 589.6 | 582.6 | 584.3 | 591.4 | 603.7 | 685.4 | 619.5 |
| 45° | 565.9 | 564.1 | 581.7 | 608.0 | 628.3 | 624.7 | 626.5 | 629.1 | 640.6 | 735.5 | 666.9 |
| 47.5° | 579.0 | 580.8 | 606.3 | 636.2 | 657.3 | 669.6 | 679.2 | 678.3 | 687.1 | 786.4 | 719.6 |
| 50° | 592.2 | 595.7 | 626.5 | 658.1 | 695.0 | 716.1 | 730.2 | 739.8 | 748.6 | 840.0 | 780.3 |
| 52.5° | 617.7 | 621.2 | 655.5 | 689.8 | 737.2 | 768.0 | 803.1 | 802.2 | 803.1 | 893.6 | 840.9 |
| 55° | 654.6 | 655.5 | 675.7 | 715.2 | 779.4 | 835.6 | 884.0 | 889.2 | 874.3 | 960.4 | 910.3 |
| 57.5° | 696.8 | 700.3 | 717.9 | 747.8 | 812.8 | 900.6 | 974.5 | 985.0 | 944.6 | 1014.9 | 973.6 |
| 60° | 736.3 | 739.0 | 766.2 | 800.5 | 870.8 | 982.4 | 1065.8 | 1078.1 | 1034.2 | 1081.7 | 1039.5 |
| 62.5° | 691.5 | 704.7 | 753.0 | 831.2 | 972.7 | 1106.3 | 1181.8 | 1189.7 | 1121.2 | 1149.3 | 1109.8 |
| 65° | 553.6 | 562.4 | 631.8 | 758.3 | 979.7 | 1331.2 | 1361.1 | 1340.0 | 1240.7 | 1236.3 | 1216.1 |
| 67.5° | 308.4 | 315.4 | 362.9 | 495.6 | 825.1 | 1415.6 | 1746.8 | 1592.2 | 1426.1 | 1367.2 | 1360.2 |
| 70° | 243.4 | 245.2 | 251.3 | 278.5 | 457.8 | 1247.7 | 2050.8 | 2057.9 | 1729.2 | 1547.4 | 1390.9 |
| 72.5° | 197.7 | 196.8 | 215.3 | 239.0 | 270.6 | 748.6 | 1955.1 | 2225.7 | 1961.2 | 1499.9 | 1211.7 |
| 75° | 151.1 | 153.8 | 177.5 | 211.8 | 247.8 | 352.4 | 1458.6 | 1831.2 | 1837.3 | 1398.0 | 1021.9 |
| 77.5° | 115.1 | 116.0 | 142.3 | 187.2 | 242.5 | 248.7 | 951.6 | 1364.6 | 1370.7 | 1082.5 | 563.2 |
| 80° | 86.1 | 86.1 | 108.1 | 158.2 | 236.4 | 229.3 | 586.1 | 946.3 | 856.7 | 380.5 | 123.0 |
| 82.5° | 49.2 | 52.7 | 72.1 | 120.4 | 214.4 | 220.5 | 330.4 | 542.1 | 362.0 | 103.7 | 57.1 |
| 85° | 26.4 | 27.2 | 43.9 | 80.8 | 176.6 | 210.9 | 252.2 | 269.8 | 144.1 | 55.4 | 26.4 |
| 87.5° | 9.7 | 9.7 | 20.2 | 41.3 | 111.6 | 156.4 | 200.3 | 172.2 | 82.6 | 25.5 | 13.2 |
| 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: P671467
 CATALOG NUMBER: CCP-SA-1A-850-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 | 657.3 |
| 2.5° | 656.4 | 652.9 | 650.2 | 652.9 | 643.2 | 638.8 | 644.1 | 641.4 | 636.2 | 633.5 | 631.8 |
| 5° | 643.2 | 638.8 | 634.4 | 631.8 | 621.2 | 610.7 | 605.4 | 594.9 | 586.1 | 588.7 | 583.4 |
| 7.5° | 629.1 | 624.7 | 611.6 | 599.3 | 578.2 | 557.1 | 547.4 | 532.5 | 527.2 | 522.8 | 520.2 |
| 10° | 611.6 | 603.7 | 583.4 | 558.8 | 528.1 | 504.4 | 479.8 | 462.2 | 443.7 | 435.8 | 438.5 |
| 12.5° | 589.6 | 585.2 | 553.6 | 515.8 | 472.7 | 433.2 | 404.2 | 376.1 | 351.5 | 338.3 | 334.8 |
| 15° | 579.9 | 566.7 | 521.1 | 471.0 | 416.5 | 367.3 | 324.2 | 275.0 | 246.0 | 232.0 | 232.0 |
| 17.5° | 569.4 | 544.8 | 490.3 | 421.8 | 359.4 | 296.1 | 235.5 | 190.7 | 167.8 | 159.9 | 159.9 |
| 20° | 552.7 | 525.4 | 454.3 | 375.2 | 299.6 | 223.2 | 168.7 | 144.1 | 137.1 | 131.8 | 132.7 |
| 22.5° | 540.4 | 507.0 | 420.9 | 329.5 | 237.2 | 166.1 | 132.7 | 124.8 | 122.1 | 120.4 | 121.3 |
| 25° | 526.3 | 485.0 | 385.7 | 280.3 | 186.3 | 130.9 | 115.1 | 111.6 | 113.3 | 114.2 | 114.2 |
| 27.5° | 514.9 | 466.6 | 349.7 | 227.6 | 140.6 | 110.7 | 103.7 | 102.8 | 106.3 | 108.1 | 109.0 |
| 30° | 507.0 | 449.9 | 314.6 | 179.3 | 112.5 | 98.4 | 94.9 | 94.9 | 99.3 | 101.0 | 101.9 |
| 32.5° | 499.1 | 435.8 | 276.8 | 137.1 | 95.8 | 87.9 | 87.0 | 87.9 | 90.5 | 90.5 | 91.4 |
| 35° | 501.7 | 422.6 | 240.8 | 110.7 | 86.1 | 80.8 | 80.8 | 80.8 | 81.7 | 82.6 | 82.6 |
| 37.5° | 507.0 | 419.1 | 202.1 | 93.1 | 79.1 | 75.6 | 75.6 | 74.7 | 75.6 | 74.7 | 75.6 |
| 40° | 512.3 | 413.9 | 166.9 | 82.6 | 74.7 | 72.1 | 71.2 | 69.4 | 68.5 | 68.5 | 69.4 |
| 42.5° | 534.2 | 420.9 | 137.1 | 75.6 | 71.2 | 69.4 | 66.8 | 65.0 | 64.1 | 64.1 | 64.1 |
| 45° | 562.4 | 434.1 | 113.3 | 72.1 | 68.5 | 64.1 | 62.4 | 61.5 | 59.8 | 60.6 | 61.5 |
| 47.5° | 604.5 | 454.3 | 99.3 | 69.4 | 65.9 | 60.6 | 58.9 | 57.1 | 57.1 | 58.9 | 58.9 |
| 50° | 659.9 | 487.7 | 90.5 | 66.8 | 63.3 | 58.0 | 55.4 | 54.5 | 54.5 | 57.1 | 57.1 |
| 52.5° | 719.6 | 526.3 | 87.0 | 65.9 | 60.6 | 55.4 | 52.7 | 51.8 | 51.8 | 55.4 | 55.4 |
| 55° | 779.4 | 573.8 | 89.6 | 65.9 | 58.9 | 52.7 | 50.1 | 48.3 | 49.2 | 51.8 | 51.8 |
| 57.5° | 845.3 | 624.7 | 102.8 | 65.9 | 57.1 | 51.8 | 48.3 | 45.7 | 46.6 | 47.4 | 47.4 |
| 60° | 917.3 | 691.5 | 125.7 | 65.9 | 56.2 | 50.1 | 45.7 | 42.2 | 42.2 | 43.1 | 43.1 |
| 62.5° | 990.3 | 757.4 | 158.2 | 66.8 | 57.1 | 49.2 | 42.2 | 38.7 | 37.8 | 38.7 | 38.7 |
| 65° | 1086.0 | 862.9 | 190.7 | 66.8 | 59.8 | 47.4 | 39.5 | 35.1 | 34.3 | 34.3 | 35.1 |
| 67.5° | 1220.5 | 938.4 | 147.6 | 64.1 | 61.5 | 47.4 | 36.9 | 32.5 | 30.8 | 30.8 | 30.8 |
| 70° | 1149.3 | 791.7 | 94.0 | 59.8 | 58.9 | 49.2 | 35.1 | 29.9 | 28.1 | 27.2 | 27.2 |
| 72.5° | 984.1 | 633.5 | 75.6 | 56.2 | 54.5 | 48.3 | 33.4 | 28.1 | 25.5 | 24.6 | 24.6 |
| 75° | 789.1 | 500.0 | 65.9 | 51.0 | 47.4 | 40.4 | 30.8 | 25.5 | 23.7 | 22.0 | 22.0 |
| 77.5° | 386.6 | 209.1 | 50.1 | 44.8 | 40.4 | 30.8 | 27.2 | 23.7 | 21.1 | 19.3 | 19.3 |
| 80° | 96.7 | 72.9 | 36.9 | 35.1 | 29.9 | 23.7 | 22.0 | 20.2 | 18.5 | 16.7 | 16.7 |
| 82.5° | 51.8 | 43.1 | 26.4 | 23.7 | 20.2 | 16.7 | 16.7 | 15.8 | 14.9 | 13.2 | 12.3 |
| 85° | 26.4 | 25.5 | 17.6 | 15.8 | 13.2 | 10.5 | 11.4 | 11.4 | 10.5 | 7.9 | 7.9 |
| 87.5° | 14.1 | 14.1 | 8.8 | 7.0 | 6.2 | 5.3 | 5.3 | 5.3 | 4.4 | 3.5 | 3.5 |
| 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)