

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: P672175

Luminaire Tested: **CCP-SA-2E-835-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672175
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-835-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T2R distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

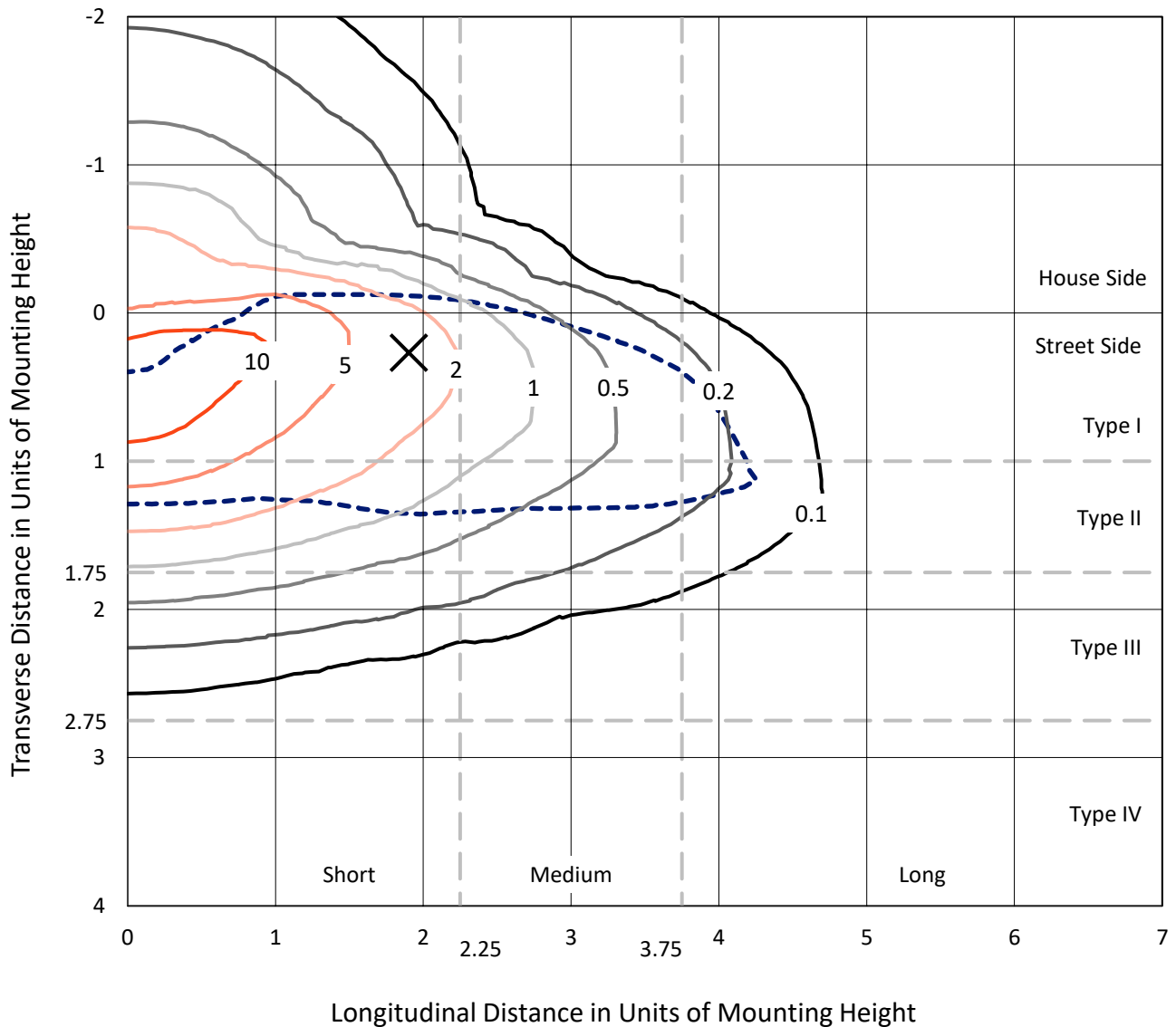
Lumens per Lamp: N/A
Luminaire Lumens: 11444.2 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{in}): 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: P672175
 CATALOG NUMBER: CCP-SA-2E-835-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

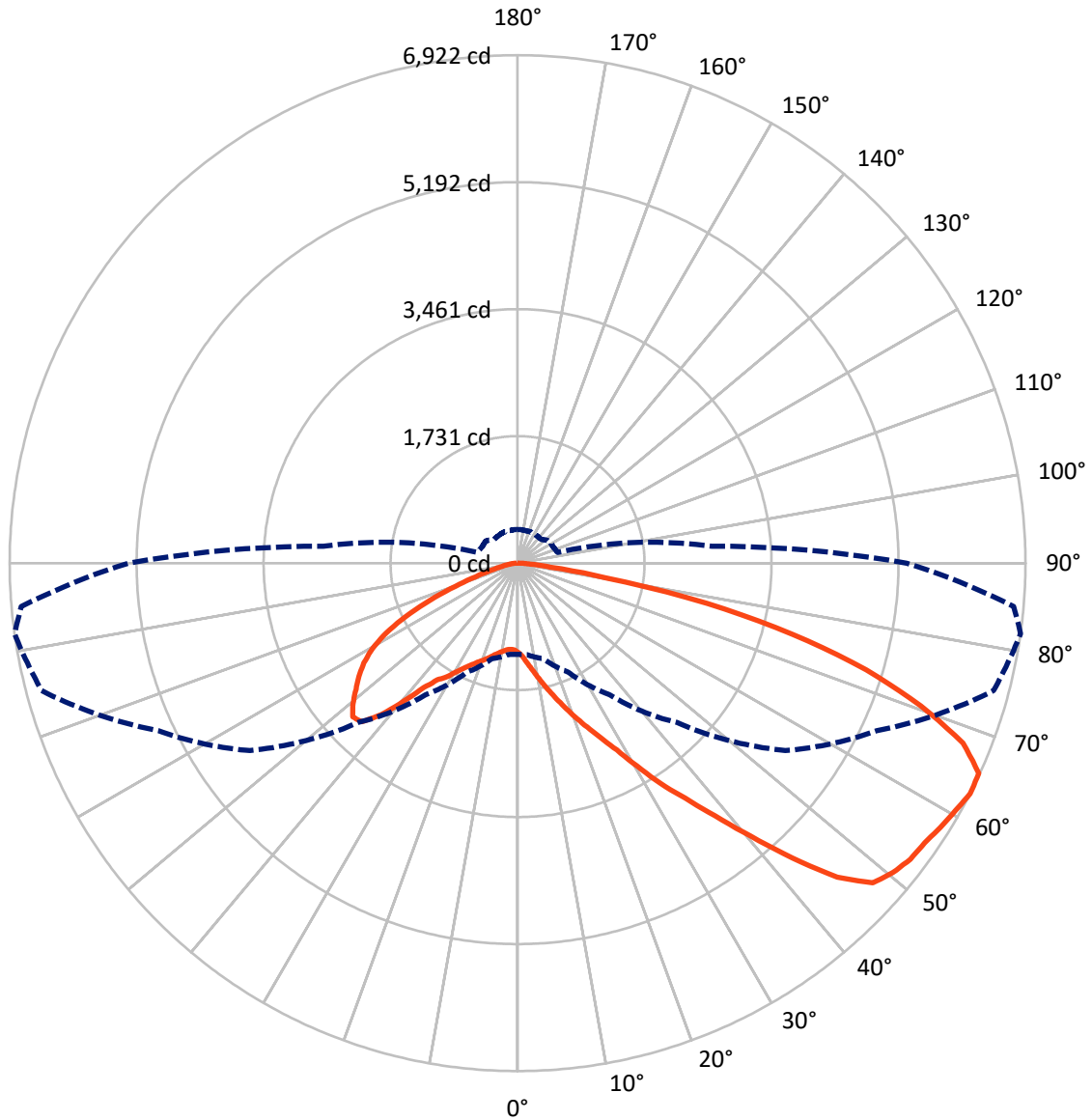
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

REPORT NUMBER: P672175
CATALOG NUMBER: CCP-SA-2E-835-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P672175

CATALOG NUMBER: CCP-SA-2E-835-U-T2R

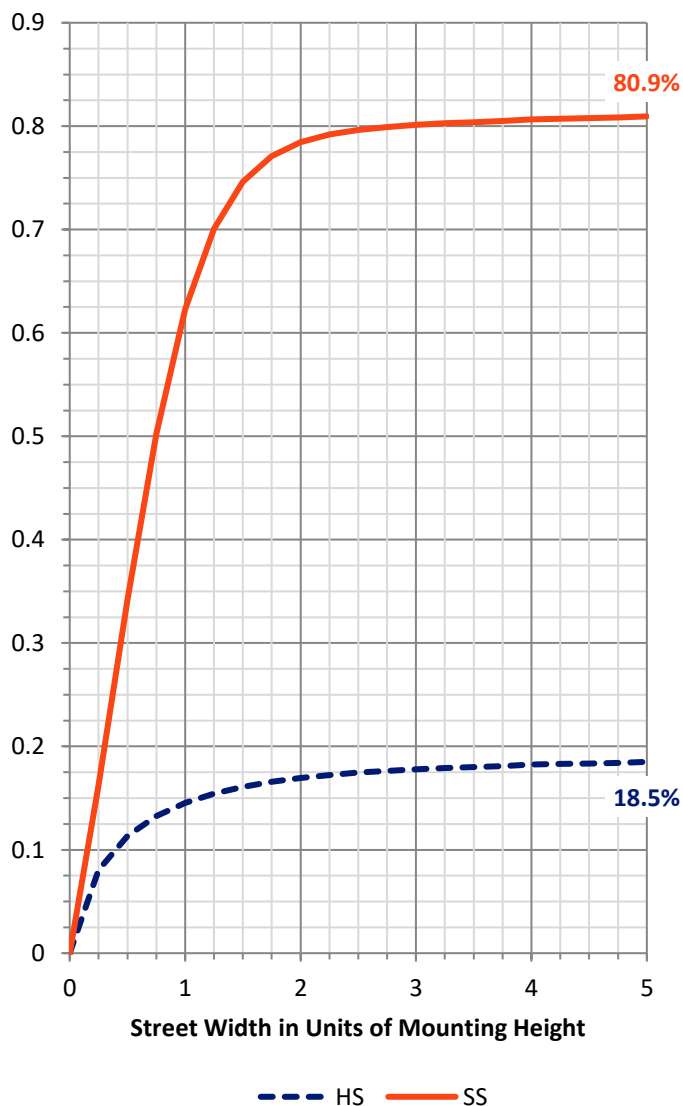
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2156.0 | 0.0 | 2156.0 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 9288.2 | 0.0 | 9288.2 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 11444.2 | 0.0 | 11444.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 134.7 | 1.2 |
| 10°-20° | 508.0 | 4.4 |
| 20°-30° | 1051.9 | 9.2 |
| 30°-40° | 1785.4 | 15.6 |
| 40°-50° | 2431.3 | 21.2 |
| 50°-60° | 2461.1 | 21.5 |
| 60°-70° | 1939.6 | 16.9 |
| 70°-80° | 955.5 | 8.3 |
| 80°-90° | 176.7 | 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° | 11444.2 | 100.0 |
| 0°-180° | 11444.2 | 100.0 |



REPORT NUMBER: P672175

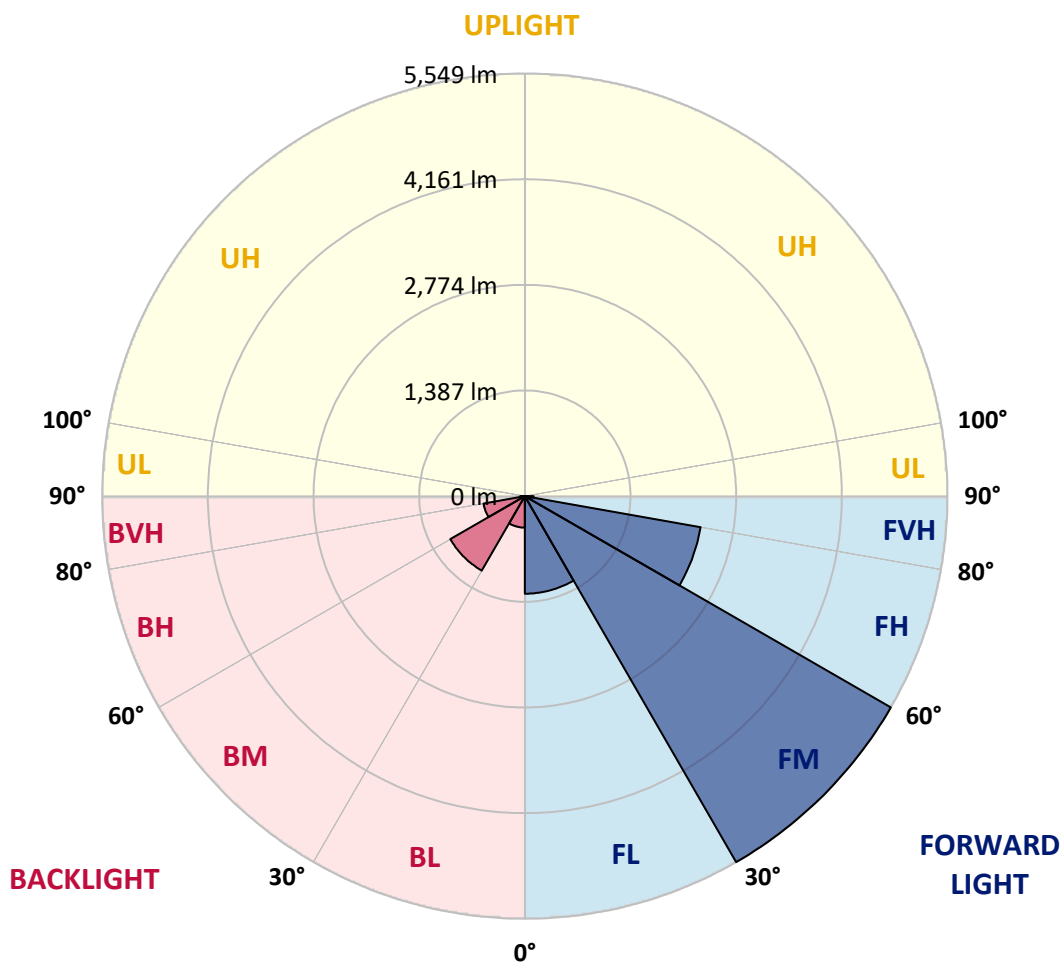
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1280.9 | 11.2 | | | |
| FM | (30°-60°) | 5548.5 | 48.5 | | | |
| FH | (60°-80°) | 2343.9 | 20.5 | | | G2/5000 |
| FVH | (80°-90°) | 114.8 | 1.0 | | | G2/225 |
| BL | (0°-30°) | 413.7 | 3.6 | B1/500 | | |
| BM | (30°-60°) | 1129.3 | 9.9 | B2/2500 | | |
| BH | (60°-80°) | 551.1 | 4.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 61.9 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P672175

CATALOG NUMBER: CCP-SA-2E-835-U-T2R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 |
| 2.5° | 1620.8 | 1596.0 | 1582.9 | 1568.0 | 1526.8 | 1500.5 | 1451.0 | 1393.3 | 1326.6 | 1269.7 | 1259.0 |
| 5° | 1962.7 | 1938.0 | 1941.3 | 1905.0 | 1844.9 | 1788.9 | 1696.6 | 1587.8 | 1460.9 | 1363.7 | 1329.9 |
| 7.5° | 2204.1 | 2176.9 | 2183.5 | 2168.7 | 2120.1 | 2058.3 | 1941.3 | 1801.2 | 1615.8 | 1471.6 | 1417.2 |
| 10° | 2365.6 | 2368.9 | 2373.9 | 2368.1 | 2336.8 | 2293.1 | 2176.9 | 2022.0 | 1791.3 | 1599.3 | 1525.2 |
| 12.5° | 2548.6 | 2557.6 | 2556.0 | 2558.4 | 2542.0 | 2507.4 | 2393.6 | 2247.8 | 1978.4 | 1736.9 | 1640.5 |
| 15° | 2781.7 | 2772.7 | 2780.1 | 2790.8 | 2772.7 | 2734.8 | 2634.3 | 2461.2 | 2174.5 | 1890.2 | 1770.7 |
| 17.5° | 3037.2 | 3018.2 | 3038.0 | 3027.3 | 3014.1 | 2989.4 | 2879.0 | 2694.4 | 2377.2 | 2055.8 | 1915.7 |
| 20° | 3258.0 | 3245.6 | 3256.4 | 3258.0 | 3260.5 | 3255.5 | 3141.8 | 2945.7 | 2589.8 | 2236.3 | 2072.3 |
| 22.5° | 3506.0 | 3500.2 | 3498.6 | 3499.4 | 3501.9 | 3507.7 | 3430.2 | 3220.9 | 2825.4 | 2425.8 | 2241.2 |
| 25° | 3852.9 | 3847.1 | 3809.2 | 3767.2 | 3742.5 | 3760.6 | 3720.3 | 3533.2 | 3085.8 | 2638.4 | 2426.6 |
| 27.5° | 4241.8 | 4232.8 | 4182.5 | 4076.2 | 3997.1 | 4010.3 | 4006.2 | 3877.6 | 3385.7 | 2882.3 | 2649.1 |
| 30° | 4645.6 | 4623.3 | 4554.1 | 4405.0 | 4280.6 | 4257.5 | 4269.0 | 4226.2 | 3763.1 | 3206.1 | 2958.9 |
| 32.5° | 5005.7 | 4964.5 | 4873.0 | 4722.2 | 4573.9 | 4507.1 | 4508.8 | 4527.7 | 4173.4 | 3583.5 | 3283.5 |
| 35° | 5225.7 | 5198.5 | 5130.1 | 4977.6 | 4812.0 | 4767.5 | 4755.2 | 4849.9 | 4550.0 | 3932.8 | 3574.4 |
| 37.5° | 5344.3 | 5317.9 | 5244.6 | 5121.8 | 4996.6 | 4978.5 | 5001.5 | 5148.2 | 4977.6 | 4368.7 | 3969.9 |
| 40° | 5322.9 | 5294.9 | 5247.1 | 5161.4 | 5079.0 | 5093.0 | 5195.2 | 5421.8 | 5444.8 | 4890.3 | 4533.5 |
| 42.5° | 5146.6 | 5116.9 | 5112.8 | 5107.0 | 5068.3 | 5130.1 | 5314.6 | 5622.0 | 5874.1 | 5492.6 | 5215.8 |
| 45° | 4835.1 | 4817.0 | 4838.4 | 4937.3 | 4985.9 | 5105.4 | 5370.7 | 5719.2 | 6251.5 | 6104.8 | 5860.9 |
| 47.5° | 4440.4 | 4429.7 | 4478.3 | 4634.9 | 4792.2 | 5029.5 | 5407.8 | 5745.6 | 6511.1 | 6511.1 | 6283.6 |
| 50° | 3998.8 | 3994.6 | 4058.9 | 4286.3 | 4532.7 | 4890.3 | 5403.6 | 5770.3 | 6624.8 | 6630.5 | 6432.8 |
| 52.5° | 3382.4 | 3403.8 | 3575.2 | 3875.2 | 4209.7 | 4671.9 | 5346.0 | 5839.5 | 6689.0 | 6702.2 | 6532.5 |
| 55° | 2672.2 | 2692.8 | 2951.5 | 3355.2 | 3783.7 | 4406.6 | 5173.7 | 5818.9 | 6701.4 | 6731.1 | 6589.3 |
| 57.5° | 2133.3 | 2137.4 | 2298.9 | 2778.4 | 3309.1 | 4067.1 | 4975.2 | 5682.1 | 6665.1 | 6794.5 | 6676.7 |
| 60° | 1669.4 | 1682.6 | 1790.5 | 2170.4 | 2758.7 | 3629.6 | 4753.5 | 5547.0 | 6685.7 | 6854.7 | 6755.8 |
| 62.5° | 1243.4 | 1246.7 | 1347.2 | 1641.4 | 2191.8 | 3071.8 | 4452.8 | 5402.8 | 6714.6 | 6922.2 | 6787.9 |
| 65° | 810.0 | 809.1 | 906.4 | 1171.7 | 1637.2 | 2469.5 | 3980.6 | 5177.0 | 6717.1 | 6907.4 | 6640.4 |
| 67.5° | 515.0 | 518.3 | 560.3 | 727.6 | 1095.9 | 1863.8 | 3337.9 | 4757.6 | 6600.0 | 6548.1 | 6103.2 |
| 70° | 417.8 | 418.6 | 431.8 | 475.4 | 667.4 | 1273.9 | 2509.0 | 4101.8 | 6230.1 | 5832.1 | 5304.8 |
| 72.5° | 372.4 | 373.3 | 379.9 | 384.8 | 444.9 | 765.5 | 1646.3 | 3330.5 | 5572.5 | 4971.0 | 4400.9 |
| 75° | 334.5 | 334.5 | 338.7 | 333.7 | 365.0 | 480.4 | 934.4 | 2504.1 | 4589.5 | 3871.0 | 3324.7 |
| 77.5° | 293.3 | 292.5 | 292.5 | 290.0 | 315.6 | 351.0 | 468.0 | 1747.7 | 3305.8 | 2640.0 | 2156.3 |
| 80° | 248.8 | 247.2 | 249.7 | 248.0 | 272.7 | 266.1 | 272.7 | 1078.6 | 1792.1 | 1210.4 | 917.9 |
| 82.5° | 193.6 | 193.6 | 201.1 | 202.7 | 224.9 | 192.8 | 192.0 | 511.7 | 680.6 | 452.4 | 338.7 |
| 85° | 101.3 | 113.7 | 153.3 | 159.9 | 169.7 | 121.1 | 140.9 | 239.0 | 272.7 | 173.0 | 123.6 |
| 87.5° | 30.5 | 32.1 | 93.9 | 105.5 | 104.6 | 61.0 | 86.5 | 115.4 | 127.7 | 76.6 | 50.3 |
| 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: P672175
 CATALOG NUMBER: CCP-SA-2E-835-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 | 1217.0 |
| 2.5° | 1231.8 | 1203.0 | 1142.0 | 1087.6 | 1046.4 | 1006.9 | 979.7 | 965.7 | 947.6 | 950.0 | 944.3 |
| 5° | 1269.7 | 1210.4 | 1102.5 | 1015.1 | 956.6 | 912.1 | 885.0 | 870.9 | 857.8 | 851.2 | 856.1 |
| 7.5° | 1326.6 | 1234.3 | 1083.5 | 978.1 | 917.1 | 879.2 | 864.4 | 860.2 | 856.9 | 854.5 | 858.6 |
| 10° | 1399.9 | 1276.3 | 1080.2 | 964.9 | 908.8 | 885.8 | 880.0 | 877.5 | 874.2 | 870.9 | 873.4 |
| 12.5° | 1474.9 | 1322.5 | 1091.8 | 968.2 | 922.0 | 904.7 | 897.3 | 894.0 | 885.8 | 881.7 | 882.5 |
| 15° | 1568.9 | 1378.5 | 1107.4 | 981.4 | 939.3 | 917.1 | 907.2 | 898.1 | 885.0 | 879.2 | 881.7 |
| 17.5° | 1669.4 | 1445.3 | 1128.8 | 993.7 | 945.9 | 918.7 | 899.0 | 885.8 | 872.6 | 864.4 | 865.2 |
| 20° | 1783.1 | 1511.2 | 1147.8 | 997.8 | 942.6 | 904.7 | 880.8 | 865.2 | 847.9 | 838.8 | 836.3 |
| 22.5° | 1900.9 | 1580.4 | 1162.6 | 994.5 | 924.5 | 880.8 | 853.6 | 834.7 | 814.1 | 800.1 | 800.9 |
| 25° | 2044.3 | 1674.3 | 1175.0 | 983.0 | 900.6 | 849.5 | 819.0 | 795.1 | 773.7 | 760.5 | 761.4 |
| 27.5° | 2216.5 | 1780.6 | 1189.8 | 964.9 | 871.8 | 815.7 | 780.3 | 756.4 | 735.8 | 723.5 | 721.8 |
| 30° | 2446.4 | 1919.0 | 1206.3 | 942.6 | 835.5 | 778.7 | 744.1 | 719.3 | 699.6 | 688.0 | 688.0 |
| 32.5° | 2705.1 | 2088.0 | 1217.8 | 916.3 | 795.1 | 739.1 | 707.8 | 688.0 | 673.2 | 657.5 | 655.9 |
| 35° | 2930.1 | 2219.0 | 1253.3 | 895.7 | 759.7 | 702.0 | 680.6 | 666.6 | 644.3 | 629.5 | 627.0 |
| 37.5° | 3260.5 | 2449.7 | 1357.9 | 889.9 | 716.9 | 673.2 | 669.1 | 642.7 | 617.2 | 589.1 | 586.7 |
| 40° | 3792.8 | 2849.3 | 1479.9 | 861.9 | 672.4 | 657.5 | 653.4 | 618.0 | 557.8 | 540.5 | 537.2 |
| 42.5° | 4470.1 | 3330.5 | 1493.0 | 780.3 | 641.1 | 644.3 | 632.0 | 562.8 | 536.4 | 523.2 | 519.9 |
| 45° | 5081.5 | 3721.1 | 1418.1 | 697.1 | 618.0 | 624.6 | 599.0 | 542.2 | 527.3 | 515.0 | 511.7 |
| 47.5° | 5425.1 | 3841.4 | 1276.3 | 634.5 | 600.7 | 607.3 | 546.3 | 532.3 | 517.5 | 505.1 | 501.8 |
| 50° | 5521.5 | 3736.7 | 1111.5 | 598.2 | 587.5 | 590.0 | 532.3 | 524.0 | 510.9 | 501.0 | 496.0 |
| 52.5° | 5540.4 | 3580.2 | 959.1 | 576.8 | 577.6 | 555.4 | 519.9 | 513.3 | 505.1 | 489.4 | 483.7 |
| 55° | 5548.7 | 3439.3 | 822.3 | 563.6 | 571.0 | 510.9 | 506.7 | 501.8 | 495.2 | 478.7 | 475.4 |
| 57.5° | 5570.1 | 3258.8 | 715.2 | 553.7 | 562.8 | 490.3 | 491.9 | 488.6 | 480.4 | 473.0 | 471.3 |
| 60° | 5509.1 | 3009.2 | 632.8 | 543.8 | 551.2 | 473.0 | 474.6 | 476.3 | 468.8 | 467.2 | 466.4 |
| 62.5° | 5304.8 | 2654.9 | 562.8 | 530.6 | 527.3 | 455.7 | 455.7 | 462.3 | 455.7 | 458.1 | 458.1 |
| 65° | 4883.7 | 2203.3 | 500.2 | 505.9 | 490.3 | 436.7 | 435.9 | 447.4 | 437.5 | 448.2 | 449.1 |
| 67.5° | 4166.0 | 1667.7 | 435.9 | 467.2 | 451.5 | 416.9 | 420.2 | 429.3 | 416.1 | 438.4 | 438.4 |
| 70° | 3297.6 | 1134.6 | 369.1 | 412.8 | 412.0 | 394.7 | 405.4 | 404.6 | 389.7 | 422.7 | 416.9 |
| 72.5° | 2456.3 | 728.4 | 300.8 | 346.1 | 360.1 | 370.8 | 390.6 | 373.3 | 359.3 | 378.2 | 360.9 |
| 75° | 1716.3 | 456.5 | 237.3 | 273.6 | 299.9 | 344.4 | 372.4 | 337.8 | 317.2 | 311.5 | 306.5 |
| 77.5° | 1027.5 | 291.7 | 187.0 | 208.5 | 234.0 | 313.1 | 349.4 | 300.8 | 269.4 | 266.1 | 256.3 |
| 80° | 473.8 | 190.3 | 142.5 | 155.7 | 166.4 | 268.6 | 318.1 | 257.1 | 219.2 | 215.9 | 204.3 |
| 82.5° | 214.2 | 125.2 | 106.3 | 111.2 | 112.1 | 213.4 | 268.6 | 203.5 | 167.3 | 271.1 | 234.8 |
| 85° | 99.7 | 80.7 | 69.2 | 65.9 | 66.7 | 142.5 | 195.3 | 140.1 | 190.3 | 148.3 | 112.9 |
| 87.5° | 42.8 | 41.2 | 35.4 | 28.0 | 25.5 | 30.5 | 75.0 | 58.5 | 83.2 | 33.0 | 22.2 |
| 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)