

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: P674600

Luminaire Tested: **CCP-SA-2D-827-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674600
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-827-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T2R distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

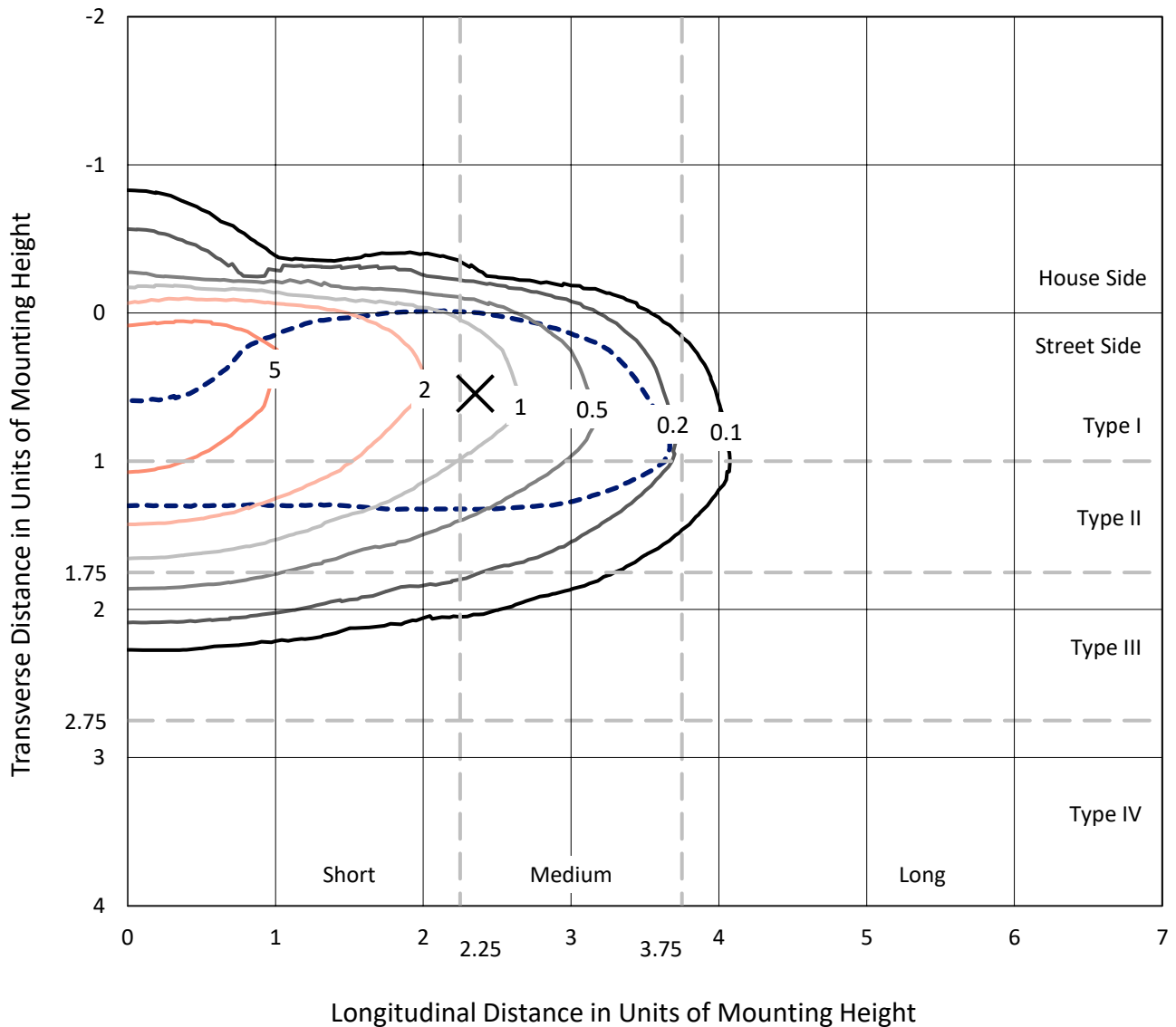
Lumens per Lamp: N/A
Luminaire Lumens: 6638.3 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 80.8
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: P674600
 CATALOG NUMBER: CCP-SA-2D-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

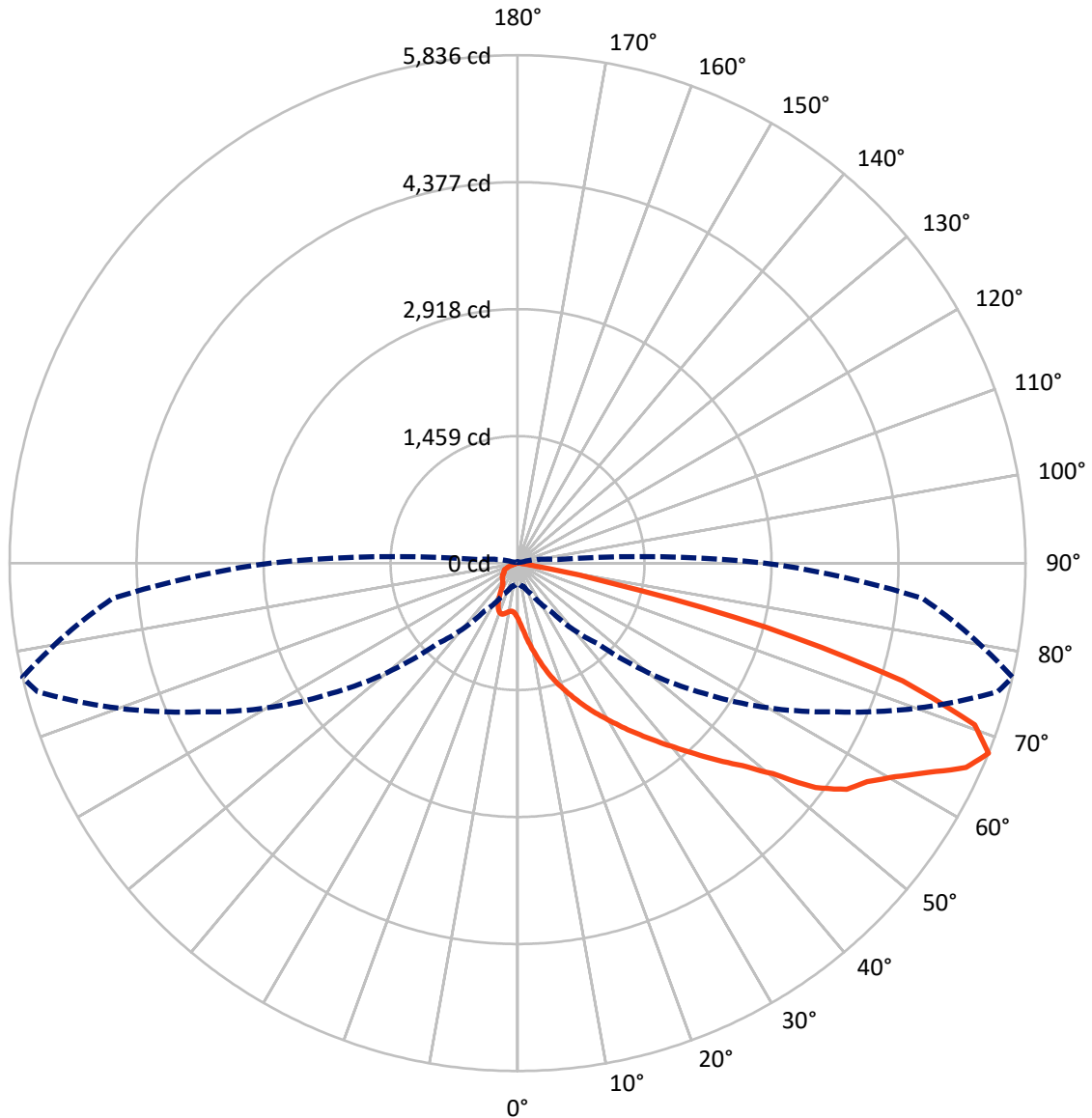
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P674600
CATALOG NUMBER: CCP-SA-2D-827-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: CCP-SA-2D-827-U-T2R-HSS

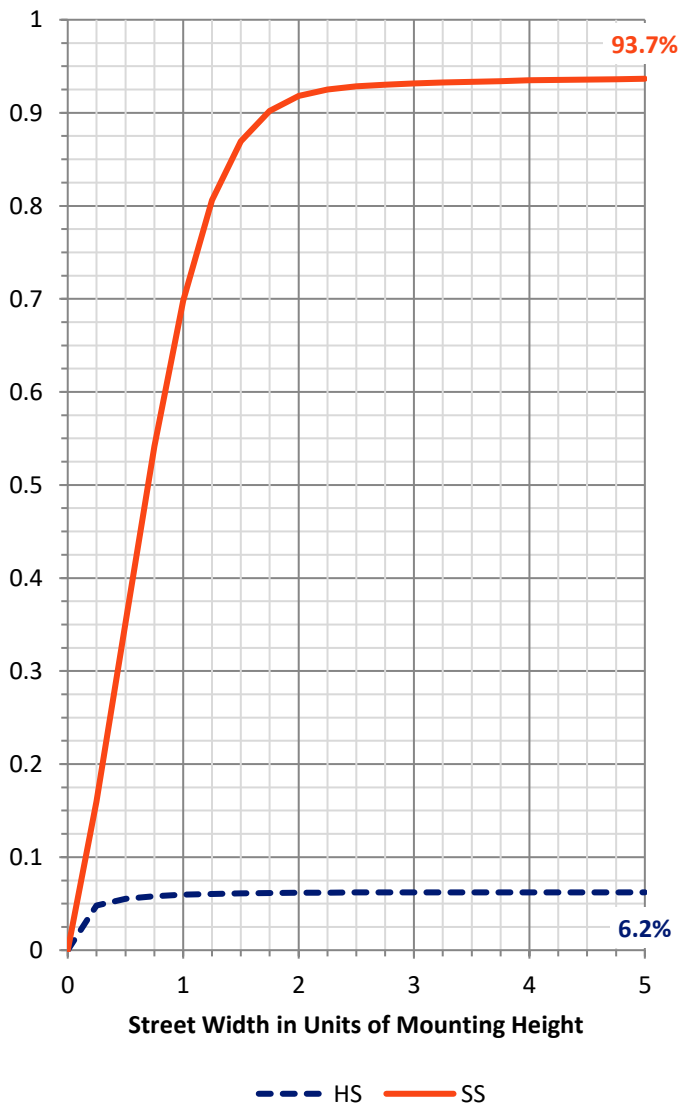
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 414.8 | 0.0 | 414.8 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 6223.5 | 0.0 | 6223.5 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 6638.3 | 0.0 | 6638.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.7 | 1.1 |
| 10°-20° | 276.3 | 4.2 |
| 20°-30° | 539.9 | 8.1 |
| 30°-40° | 943.9 | 14.2 |
| 40°-50° | 1376.5 | 20.7 |
| 50°-60° | 1609.6 | 24.2 |
| 60°-70° | 1304.8 | 19.7 |
| 70°-80° | 490.2 | 7.4 |
| 80°-90° | 22.3 | 0.3 |
| 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° | 6638.3 | 100.0 |
| 0°-180° | 6638.3 | 100.0 |



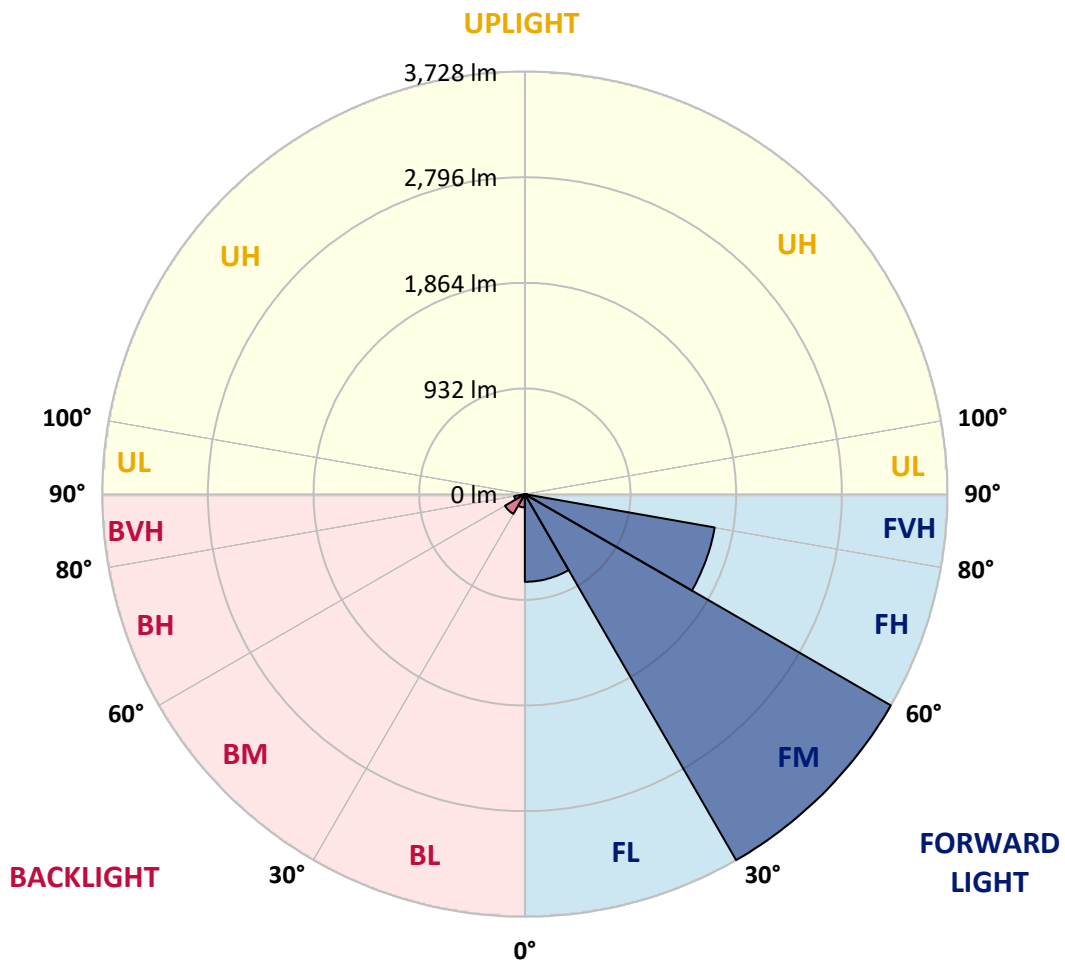
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 CATALOG NUMBER: CCP-SA-2D-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 773.3 | 11.6 | | | |
| FM (30°-60°) | 3728.2 | 56.2 | | | |
| FH (60°-80°) | 1700.9 | 25.6 | | | G1/1800 |
| FVH (80°-90°) | 21.0 | 0.3 | | | G1/100 |
| BL (0°-30°) | 117.6 | 1.8 | B1/500 | | |
| BM (30°-60°) | 201.8 | 3.0 | B0/220 | | |
| BH (60°-80°) | 94.1 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.3 | 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 II Medium





REPORT NUMBER: P674600

CATALOG NUMBER: CCP-SA-2D-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 |
| 2.5° | 954.6 | 919.9 | 926.5 | 912.1 | 893.5 | 850.4 | 804.8 | 759.3 | 718.5 | 709.5 | 668.8 |
| 5° | 1222.5 | 1211.7 | 1200.3 | 1190.7 | 1151.8 | 1097.9 | 1015.8 | 911.5 | 817.4 | 801.2 | 716.7 |
| 7.5° | 1430.4 | 1414.3 | 1424.5 | 1395.1 | 1354.3 | 1302.2 | 1197.9 | 1086.5 | 941.4 | 917.5 | 786.2 |
| 10° | 1583.9 | 1574.9 | 1579.7 | 1565.9 | 1546.1 | 1494.0 | 1390.9 | 1251.3 | 1083.5 | 1037.9 | 864.1 |
| 12.5° | 1698.9 | 1700.7 | 1721.7 | 1722.9 | 1706.7 | 1664.2 | 1555.1 | 1409.5 | 1212.3 | 1171.6 | 950.4 |
| 15° | 1782.8 | 1784.6 | 1810.4 | 1837.9 | 1856.5 | 1834.4 | 1735.5 | 1572.5 | 1363.9 | 1308.2 | 1040.9 |
| 17.5° | 1796.6 | 1797.8 | 1843.3 | 1899.1 | 1956.6 | 1975.8 | 1899.7 | 1734.3 | 1502.4 | 1438.8 | 1144.6 |
| 20° | 1805.6 | 1815.8 | 1856.5 | 1920.6 | 2011.7 | 2071.1 | 2029.7 | 1889.5 | 1636.6 | 1562.9 | 1246.5 |
| 22.5° | 1914.7 | 1914.7 | 1938.6 | 1984.2 | 2056.7 | 2149.6 | 2141.2 | 2032.1 | 1767.2 | 1694.1 | 1347.7 |
| 25° | 2146.0 | 2146.0 | 2122.6 | 2110.6 | 2149.6 | 2222.7 | 2243.7 | 2184.3 | 1916.5 | 1830.2 | 1454.4 |
| 27.5° | 2452.2 | 2452.2 | 2415.6 | 2327.6 | 2294.0 | 2324.6 | 2346.7 | 2316.8 | 2054.3 | 1969.2 | 1567.1 |
| 30° | 2769.8 | 2780.6 | 2717.1 | 2605.0 | 2487.6 | 2464.2 | 2442.6 | 2436.0 | 2201.1 | 2105.2 | 1681.5 |
| 32.5° | 3088.6 | 3087.4 | 3008.3 | 2868.7 | 2715.3 | 2632.6 | 2562.5 | 2554.7 | 2356.9 | 2262.8 | 1790.0 |
| 35° | 3343.3 | 3343.9 | 3260.6 | 3117.4 | 2940.0 | 2834.5 | 2721.9 | 2685.3 | 2527.7 | 2422.8 | 1919.4 |
| 37.5° | 3563.8 | 3551.3 | 3461.4 | 3325.3 | 3159.9 | 3050.9 | 2910.6 | 2815.4 | 2704.5 | 2597.8 | 2048.9 |
| 40° | 3690.3 | 3673.5 | 3586.0 | 3456.6 | 3331.3 | 3248.0 | 3124.6 | 2972.4 | 2898.7 | 2783.6 | 2196.3 |
| 42.5° | 3708.9 | 3694.5 | 3636.3 | 3558.4 | 3456.0 | 3382.9 | 3349.9 | 3149.7 | 3102.4 | 2998.1 | 2372.5 |
| 45° | 3656.7 | 3633.4 | 3614.2 | 3573.4 | 3544.7 | 3509.3 | 3554.2 | 3338.5 | 3336.1 | 3232.4 | 2546.9 |
| 47.5° | 3527.3 | 3495.5 | 3500.3 | 3545.3 | 3577.6 | 3609.4 | 3749.6 | 3586.0 | 3571.6 | 3474.5 | 2775.8 |
| 50° | 3306.2 | 3290.6 | 3343.3 | 3432.0 | 3560.2 | 3687.3 | 3944.4 | 3838.9 | 3895.8 | 3804.7 | 3091.6 |
| 52.5° | 2856.7 | 2875.9 | 3033.5 | 3246.8 | 3468.6 | 3723.8 | 4127.1 | 4216.4 | 4362.1 | 4287.2 | 3409.2 |
| 55° | 2317.4 | 2310.2 | 2520.5 | 2899.3 | 3253.4 | 3700.5 | 4206.8 | 4438.8 | 4667.7 | 4589.2 | 3586.0 |
| 57.5° | 1866.7 | 1879.3 | 2021.3 | 2395.9 | 2888.5 | 3520.1 | 4225.4 | 4555.0 | 4790.5 | 4738.4 | 3749.6 |
| 60° | 1401.1 | 1413.1 | 1542.5 | 1868.5 | 2403.1 | 3143.8 | 4072.0 | 4595.8 | 5021.3 | 4981.7 | 4010.9 |
| 62.5° | 891.7 | 907.3 | 1037.3 | 1354.3 | 1836.8 | 2558.9 | 3727.4 | 4553.2 | 5262.2 | 5295.1 | 4367.5 |
| 65° | 438.7 | 452.4 | 548.3 | 791.0 | 1227.9 | 1913.5 | 3246.8 | 4390.8 | 5569.0 | 5663.1 | 4653.3 |
| 67.5° | 242.7 | 249.3 | 282.3 | 402.7 | 685.0 | 1312.4 | 2609.2 | 4043.8 | 5709.8 | 5835.7 | 4672.5 |
| 70° | 188.8 | 190.6 | 203.2 | 234.9 | 333.8 | 770.1 | 1855.9 | 3466.2 | 5418.0 | 5570.2 | 4283.6 |
| 72.5° | 158.8 | 161.2 | 167.2 | 178.0 | 208.5 | 400.9 | 1166.2 | 2678.7 | 4558.6 | 4627.5 | 3313.9 |
| 75° | 116.3 | 119.9 | 136.6 | 146.2 | 164.8 | 243.3 | 514.2 | 1609.6 | 3012.5 | 2944.8 | 1854.1 |
| 77.5° | 97.7 | 100.7 | 104.9 | 118.7 | 136.0 | 166.0 | 180.4 | 674.8 | 1226.1 | 1066.1 | 486.6 |
| 80° | 66.5 | 70.1 | 81.5 | 88.7 | 115.1 | 109.7 | 74.9 | 181.0 | 246.3 | 200.8 | 93.5 |
| 82.5° | 47.3 | 50.3 | 56.3 | 72.5 | 83.3 | 58.1 | 40.8 | 55.1 | 59.3 | 56.3 | 30.6 |
| 85° | 15.0 | 19.2 | 40.8 | 59.9 | 44.9 | 19.8 | 25.8 | 21.0 | 18.6 | 18.0 | 12.0 |
| 87.5° | 3.0 | 3.0 | 20.4 | 24.0 | 18.0 | 10.2 | 9.0 | 6.6 | 8.4 | 8.4 | 6.6 |
| 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-2D-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 | 635.8 |
| 2.5° | 649.6 | 622.6 | 583.7 | 547.1 | 510.0 | 483.6 | 465.0 | 446.5 | 439.3 | 436.3 | 428.5 |
| 5° | 678.4 | 626.8 | 549.5 | 487.2 | 441.7 | 412.9 | 395.5 | 380.5 | 370.9 | 367.9 | 363.8 |
| 7.5° | 719.7 | 645.4 | 534.5 | 462.6 | 417.1 | 385.9 | 357.8 | 325.4 | 299.6 | 289.4 | 285.3 |
| 10° | 764.7 | 673.6 | 536.9 | 457.8 | 397.3 | 329.0 | 266.1 | 213.9 | 191.2 | 182.8 | 176.8 |
| 12.5° | 830.6 | 704.7 | 547.1 | 452.4 | 338.0 | 234.9 | 170.2 | 148.6 | 143.2 | 142.0 | 140.8 |
| 15° | 896.5 | 748.5 | 563.9 | 416.5 | 252.3 | 160.0 | 141.4 | 133.6 | 130.6 | 127.6 | 127.6 |
| 17.5° | 963.0 | 790.4 | 570.5 | 346.4 | 174.4 | 138.4 | 128.8 | 122.3 | 117.5 | 115.1 | 113.3 |
| 20° | 1037.9 | 834.8 | 551.3 | 260.7 | 139.6 | 126.4 | 115.7 | 107.9 | 103.7 | 101.3 | 99.5 |
| 22.5° | 1118.8 | 878.5 | 509.4 | 181.6 | 127.0 | 113.9 | 103.7 | 95.9 | 91.7 | 89.3 | 88.7 |
| 25° | 1194.9 | 916.3 | 442.3 | 136.6 | 114.5 | 101.9 | 92.3 | 85.7 | 82.7 | 80.3 | 79.7 |
| 27.5° | 1273.4 | 948.6 | 354.8 | 120.5 | 104.3 | 92.3 | 82.7 | 77.3 | 74.3 | 72.5 | 71.9 |
| 30° | 1350.1 | 970.8 | 264.3 | 110.3 | 95.3 | 83.3 | 74.9 | 70.7 | 67.7 | 65.9 | 65.3 |
| 32.5° | 1429.3 | 983.4 | 178.6 | 101.3 | 86.3 | 75.5 | 68.3 | 64.1 | 62.3 | 60.5 | 60.5 |
| 35° | 1505.4 | 981.6 | 128.8 | 92.9 | 79.1 | 68.3 | 61.7 | 58.7 | 58.1 | 56.3 | 56.3 |
| 37.5° | 1588.7 | 969.0 | 109.7 | 85.1 | 71.3 | 61.7 | 56.3 | 54.5 | 53.9 | 52.7 | 52.1 |
| 40° | 1683.3 | 940.8 | 100.1 | 79.1 | 64.7 | 56.3 | 51.5 | 50.3 | 49.7 | 48.5 | 48.5 |
| 42.5° | 1787.0 | 904.3 | 94.7 | 72.5 | 59.3 | 50.9 | 47.3 | 45.5 | 44.9 | 43.7 | 43.7 |
| 45° | 1907.5 | 869.5 | 91.1 | 65.9 | 54.5 | 46.7 | 43.1 | 41.3 | 40.8 | 39.6 | 39.6 |
| 47.5° | 2071.7 | 849.8 | 85.1 | 59.9 | 49.1 | 42.5 | 39.0 | 37.8 | 36.6 | 35.4 | 35.4 |
| 50° | 2297.6 | 826.4 | 77.3 | 53.9 | 44.9 | 38.4 | 36.0 | 34.2 | 33.6 | 32.4 | 32.4 |
| 52.5° | 2483.4 | 776.6 | 69.5 | 47.9 | 40.2 | 35.4 | 33.0 | 31.8 | 30.6 | 30.0 | 30.0 |
| 55° | 2548.7 | 718.5 | 61.7 | 43.1 | 36.6 | 33.0 | 30.6 | 29.4 | 28.8 | 28.2 | 28.2 |
| 57.5° | 2653.0 | 699.9 | 54.5 | 38.4 | 33.0 | 30.6 | 28.2 | 27.6 | 27.0 | 26.4 | 25.8 |
| 60° | 2830.9 | 710.7 | 47.9 | 34.2 | 30.0 | 27.6 | 25.8 | 25.2 | 24.0 | 22.8 | 22.8 |
| 62.5° | 3003.5 | 697.5 | 40.8 | 30.0 | 25.8 | 24.6 | 22.8 | 21.6 | 19.2 | 17.4 | 16.2 |
| 65° | 3045.5 | 609.5 | 35.4 | 25.2 | 21.6 | 20.4 | 18.6 | 16.2 | 12.6 | 10.2 | 10.2 |
| 67.5° | 2842.3 | 463.2 | 30.6 | 21.6 | 18.0 | 16.8 | 13.2 | 10.8 | 7.8 | 6.0 | 6.0 |
| 70° | 2345.5 | 293.6 | 25.2 | 16.8 | 15.0 | 11.4 | 8.4 | 7.8 | 5.4 | 4.8 | 4.2 |
| 72.5° | 1692.3 | 160.6 | 21.0 | 13.8 | 10.8 | 7.2 | 6.0 | 4.8 | 3.6 | 2.4 | 2.4 |
| 75° | 857.0 | 75.5 | 15.6 | 10.8 | 7.2 | 4.8 | 3.6 | 2.4 | 2.4 | 1.8 | 1.8 |
| 77.5° | 242.7 | 34.8 | 10.2 | 7.2 | 4.8 | 3.0 | 2.4 | 1.8 | 1.8 | 1.2 | 1.2 |
| 80° | 47.9 | 17.4 | 6.6 | 4.8 | 3.6 | 2.4 | 1.8 | 1.2 | 1.2 | 0.6 | 0.6 |
| 82.5° | 17.4 | 9.0 | 4.8 | 3.6 | 3.0 | 2.4 | 1.2 | 0.6 | 0.6 | 0.0 | 0.0 |
| 85° | 9.0 | 4.8 | 3.6 | 3.0 | 2.4 | 1.8 | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.8 | 3.6 | 3.0 | 3.0 | 2.4 | 1.8 | 1.2 | 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)