

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: P676461

Luminaire Tested: **CCW-SA-2E-827-U-T3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676461
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-827-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T3 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

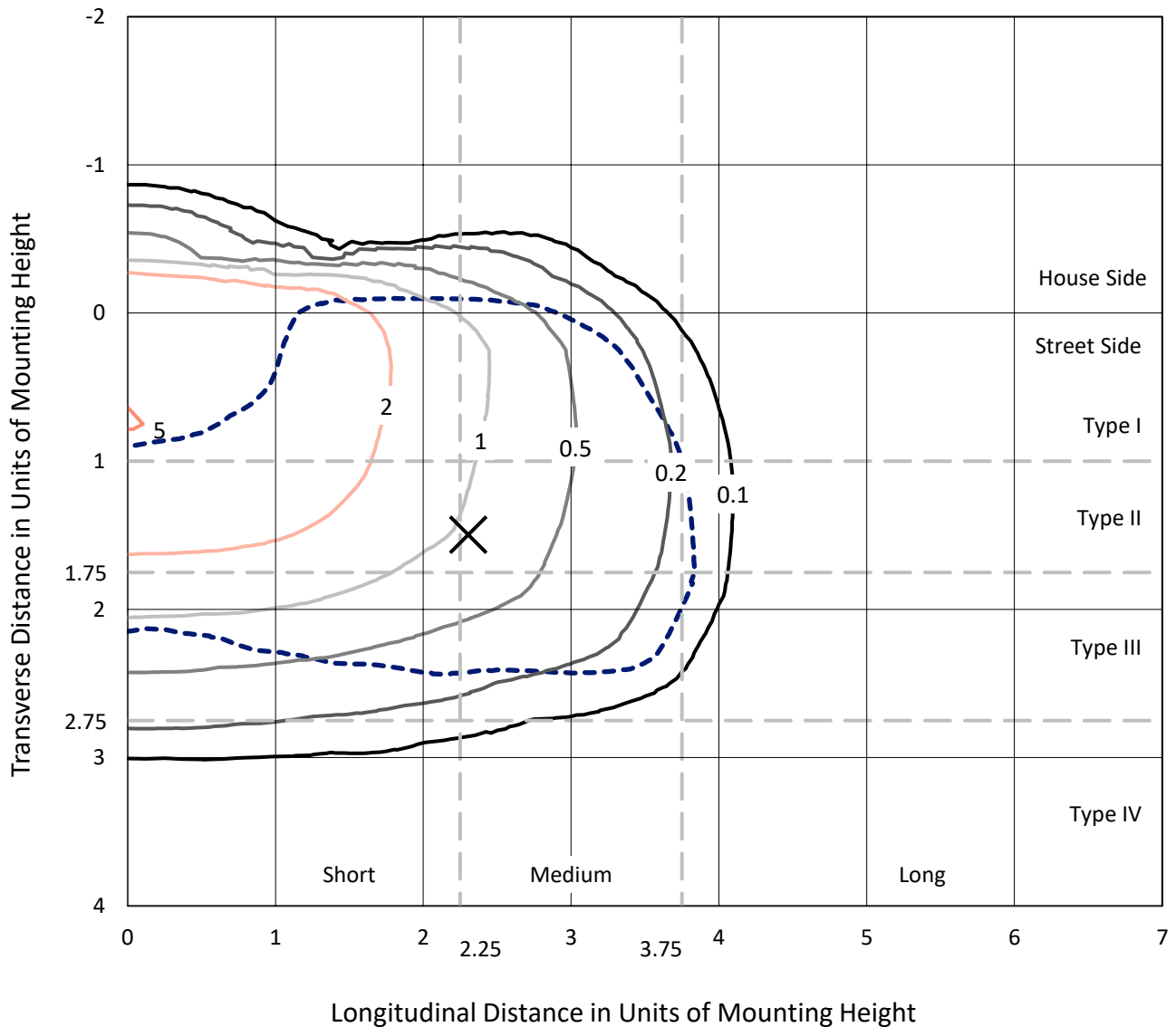
Lumens per Lamp: N/A
Luminaire Lumens: 7240.9 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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: P676461
 CATALOG NUMBER: CCW-SA-2E-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

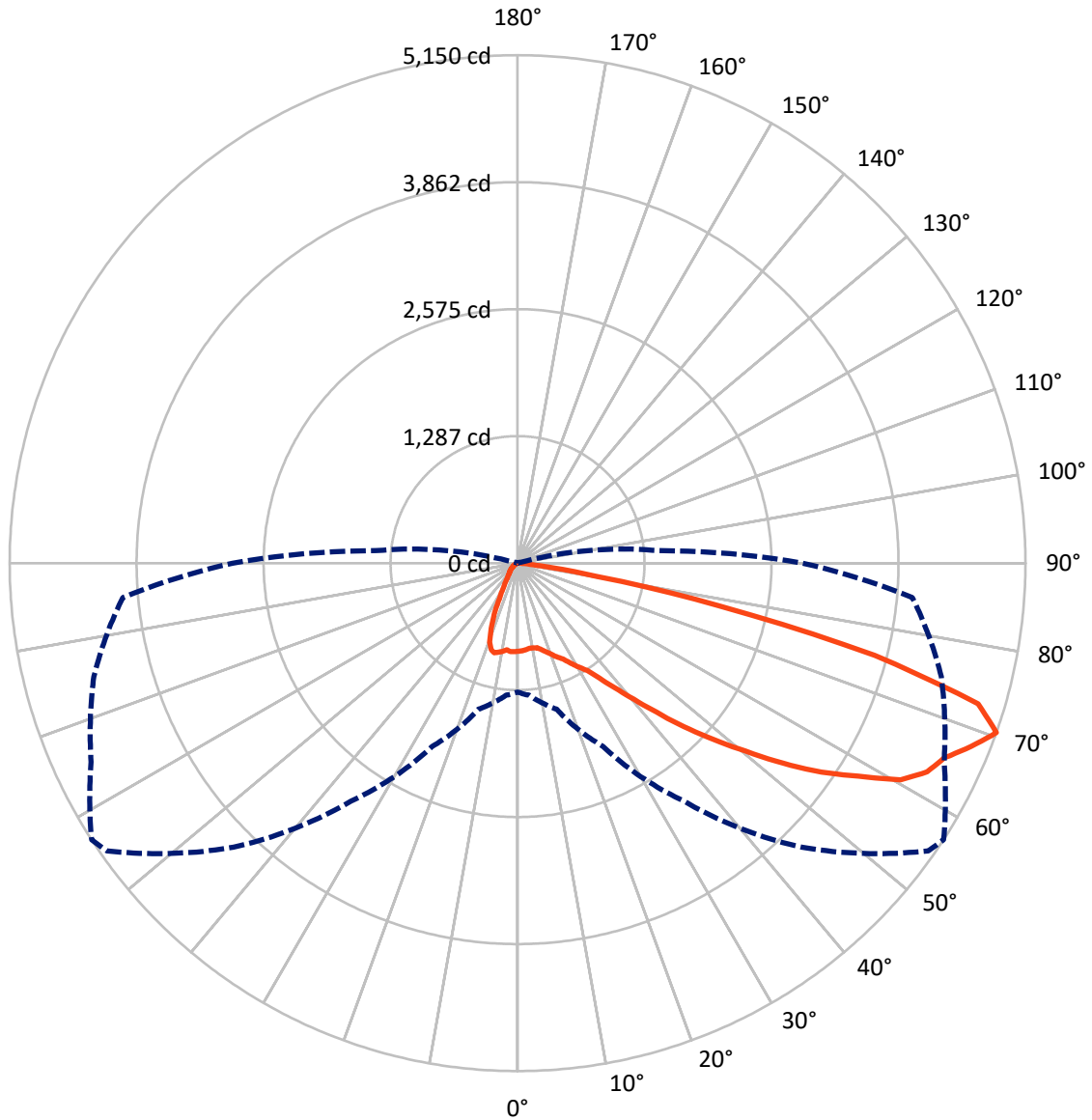
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P676461
CATALOG NUMBER: CCW-SA-2E-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P676461
 CATALOG NUMBER: CCW-SA-2E-827-U-T3-HSS

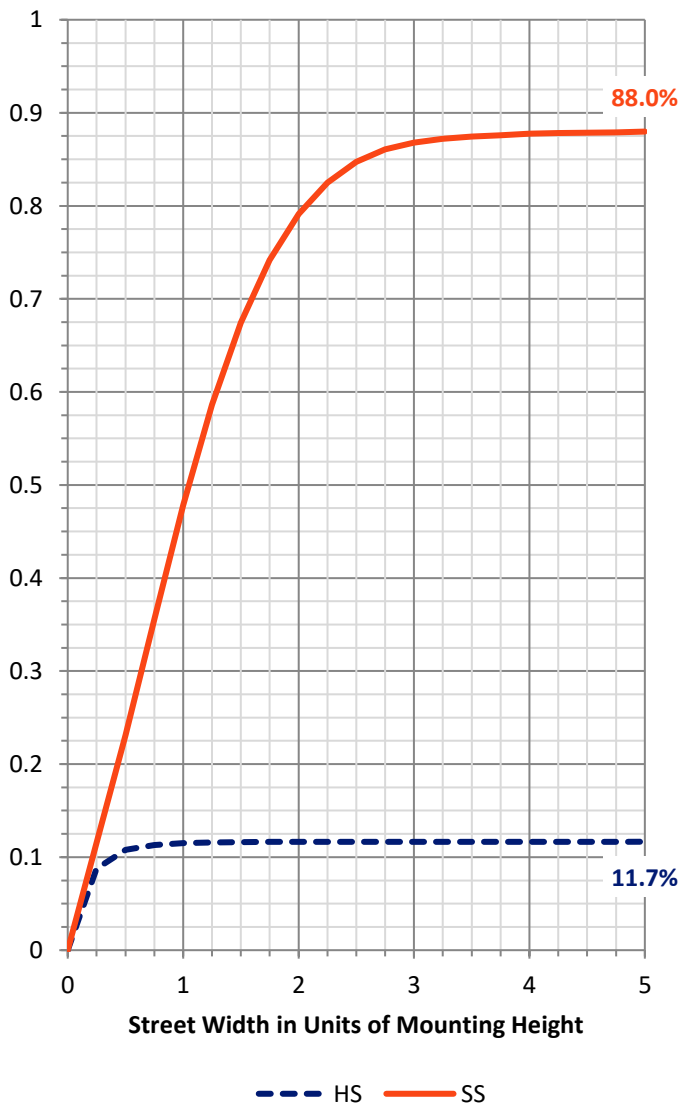
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 853.5 | 0.0 | 853.5 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 6387.4 | 0.0 | 6387.4 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 7240.9 | 0.0 | 7240.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.5 | 1.2 |
| 10°-20° | 233.4 | 3.2 |
| 20°-30° | 393.2 | 5.4 |
| 30°-40° | 673.0 | 9.3 |
| 40°-50° | 1130.0 | 15.6 |
| 50°-60° | 1734.5 | 24.0 |
| 60°-70° | 2002.5 | 27.7 |
| 70°-80° | 945.9 | 13.1 |
| 80°-90° | 44.9 | 0.6 |
| 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° | 7240.9 | 100.0 |
| 0°-180° | 7240.9 | 100.0 |



REPORT NUMBER: P676461

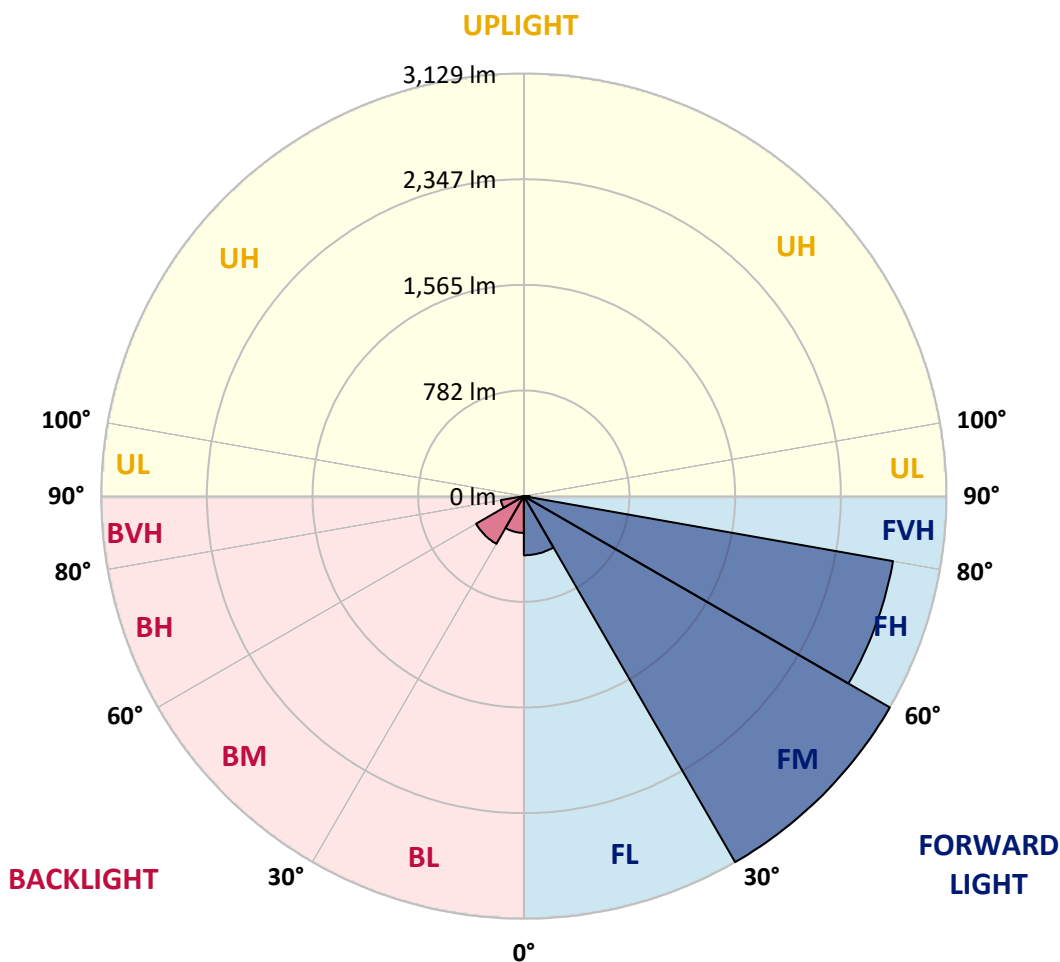
CATALOG NUMBER: CCW-SA-2E-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 438.1 | 6.0 | | | |
| FM (30°-60°) | 3129.4 | 43.2 | | | |
| FH (60°-80°) | 2775.9 | 38.3 | | | G2/5000 |
| FVH (80°-90°) | 44.1 | 0.6 | | | G1/100 |
| BL (0°-30°) | 272.1 | 3.8 | B1/500 | | |
| BM (30°-60°) | 408.0 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 172.6 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.8 | 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-G2

Type III Medium





REPORT NUMBER: P676461

CATALOG NUMBER: CCW-SA-2E-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 |
| 2.5° | 880.5 | 874.9 | 880.5 | 887.9 | 880.5 | 886.0 | 884.2 | 889.7 | 882.3 | 882.3 | 887.9 |
| 5° | 823.1 | 832.4 | 836.1 | 845.3 | 854.6 | 871.2 | 882.3 | 882.3 | 893.4 | 899.0 | 906.4 |
| 7.5° | 802.8 | 788.0 | 802.8 | 810.2 | 819.4 | 847.2 | 863.8 | 871.2 | 886.0 | 906.4 | 917.5 |
| 10° | 773.2 | 784.3 | 784.3 | 808.3 | 821.3 | 837.9 | 867.5 | 873.1 | 906.4 | 926.7 | 937.8 |
| 12.5° | 771.3 | 771.3 | 780.6 | 797.2 | 823.1 | 854.6 | 891.6 | 880.5 | 915.6 | 952.6 | 971.1 |
| 15° | 776.9 | 789.8 | 789.8 | 812.0 | 832.4 | 876.8 | 908.2 | 910.1 | 960.0 | 997.0 | 1013.7 |
| 17.5° | 800.9 | 795.4 | 802.8 | 815.7 | 847.2 | 889.7 | 941.5 | 947.1 | 1004.4 | 1054.4 | 1078.4 |
| 20° | 850.9 | 860.1 | 849.0 | 841.6 | 854.6 | 910.1 | 976.7 | 987.8 | 1052.5 | 1100.6 | 1124.7 |
| 22.5° | 1037.7 | 1030.3 | 985.9 | 934.1 | 911.9 | 937.8 | 1010.0 | 1035.9 | 1111.7 | 1169.0 | 1189.4 |
| 25° | 1248.6 | 1235.6 | 1183.8 | 1106.2 | 1004.4 | 993.3 | 1076.6 | 1076.6 | 1185.7 | 1248.6 | 1243.0 |
| 27.5° | 1448.4 | 1444.7 | 1383.6 | 1302.2 | 1157.9 | 1078.4 | 1130.2 | 1150.5 | 1268.9 | 1320.7 | 1296.7 |
| 30° | 1651.8 | 1655.5 | 1600.0 | 1502.0 | 1350.3 | 1215.3 | 1206.0 | 1222.7 | 1331.8 | 1413.2 | 1363.3 |
| 32.5° | 1888.6 | 1855.3 | 1816.5 | 1681.4 | 1542.7 | 1391.0 | 1304.1 | 1296.7 | 1402.1 | 1476.1 | 1409.5 |
| 35° | 2099.5 | 2079.1 | 2036.6 | 1914.5 | 1755.4 | 1574.1 | 1452.1 | 1433.6 | 1490.9 | 1588.9 | 1516.8 |
| 37.5° | 2284.5 | 2264.1 | 2208.6 | 2127.2 | 2003.3 | 1801.7 | 1629.6 | 1601.9 | 1625.9 | 1729.5 | 1642.6 |
| 40° | 2443.5 | 2449.1 | 2434.3 | 2354.7 | 2240.1 | 2056.9 | 1859.0 | 1814.6 | 1794.3 | 1886.8 | 1788.7 |
| 42.5° | 2558.2 | 2611.9 | 2615.6 | 2517.5 | 2425.0 | 2325.1 | 2103.2 | 2068.0 | 2019.9 | 2097.6 | 2029.2 |
| 45° | 2798.7 | 2769.1 | 2787.6 | 2752.4 | 2650.7 | 2635.9 | 2384.3 | 2364.0 | 2297.4 | 2323.3 | 2251.2 |
| 47.5° | 2987.4 | 2981.8 | 3017.0 | 2959.6 | 2931.9 | 2933.7 | 2704.3 | 2669.2 | 2574.9 | 2623.0 | 2541.6 |
| 50° | 3096.5 | 3066.9 | 3194.5 | 3238.9 | 3233.4 | 3255.6 | 3028.1 | 2998.5 | 2907.8 | 2978.1 | 2804.2 |
| 52.5° | 3122.4 | 3176.0 | 3296.3 | 3457.2 | 3525.6 | 3571.9 | 3381.4 | 3370.3 | 3272.2 | 3316.6 | 3076.1 |
| 55° | 3187.1 | 3238.9 | 3309.2 | 3573.7 | 3827.1 | 3838.2 | 3729.1 | 3740.2 | 3653.3 | 3642.2 | 3335.1 |
| 57.5° | 3185.3 | 3174.2 | 3368.4 | 3675.5 | 4026.9 | 4186.0 | 4126.8 | 4073.2 | 3978.8 | 3869.7 | 3501.6 |
| 60° | 3068.7 | 3063.2 | 3264.8 | 3688.4 | 4136.1 | 4500.5 | 4524.5 | 4461.6 | 4224.8 | 4063.9 | 3697.7 |
| 62.5° | 2837.5 | 2859.7 | 3063.2 | 3577.4 | 4239.6 | 4613.3 | 4702.1 | 4659.5 | 4365.4 | 4193.4 | 3928.9 |
| 65° | 2573.0 | 2526.8 | 2763.5 | 3300.0 | 4006.6 | 4580.0 | 4772.4 | 4757.6 | 4531.9 | 4334.0 | 4141.6 |
| 67.5° | 2064.3 | 2084.7 | 2266.0 | 2839.4 | 3608.9 | 4457.9 | 4937.0 | 4959.2 | 4665.1 | 4457.9 | 4206.3 |
| 70° | 1307.8 | 1344.8 | 1533.4 | 2051.4 | 2946.7 | 4073.2 | 5085.0 | 5149.7 | 4770.5 | 4446.8 | 4017.7 |
| 72.5° | 381.1 | 395.8 | 653.0 | 1022.9 | 1877.5 | 3266.7 | 4848.2 | 4881.5 | 4565.2 | 4036.2 | 3107.6 |
| 75° | 125.8 | 133.2 | 192.4 | 333.0 | 736.2 | 1688.8 | 3581.1 | 3738.4 | 3632.9 | 2926.3 | 1777.6 |
| 77.5° | 83.2 | 86.9 | 105.4 | 159.1 | 279.3 | 529.0 | 1920.0 | 2088.4 | 2047.7 | 1370.7 | 573.4 |
| 80° | 61.0 | 62.9 | 77.7 | 107.3 | 170.2 | 190.5 | 708.5 | 819.4 | 791.7 | 314.5 | 114.7 |
| 82.5° | 38.8 | 38.8 | 57.3 | 75.8 | 107.3 | 94.3 | 205.3 | 227.5 | 222.0 | 120.2 | 44.4 |
| 85° | 25.9 | 27.7 | 42.5 | 59.2 | 59.2 | 44.4 | 59.2 | 68.4 | 74.0 | 64.7 | 20.3 |
| 87.5° | 7.4 | 9.2 | 24.0 | 40.7 | 24.0 | 22.2 | 20.3 | 22.2 | 25.9 | 35.1 | 11.1 |
| 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: P676461
 CATALOG NUMBER: CCW-SA-2E-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 | 893.4 |
| 2.5° | 893.4 | 900.8 | 899.0 | 902.7 | 897.1 | 891.6 | 897.1 | 897.1 | 897.1 | 891.6 | 887.9 |
| 5° | 900.8 | 897.1 | 900.8 | 893.4 | 900.8 | 893.4 | 889.7 | 878.6 | 876.8 | 876.8 | 884.2 |
| 7.5° | 911.9 | 915.6 | 899.0 | 899.0 | 882.3 | 886.0 | 876.8 | 878.6 | 874.9 | 869.4 | 865.7 |
| 10° | 928.6 | 943.4 | 926.7 | 921.2 | 902.7 | 887.9 | 865.7 | 854.6 | 854.6 | 847.2 | 854.6 |
| 12.5° | 974.8 | 969.3 | 960.0 | 941.5 | 919.3 | 889.7 | 836.1 | 782.4 | 738.1 | 704.8 | 721.4 |
| 15° | 1011.8 | 1010.0 | 997.0 | 961.9 | 932.3 | 841.6 | 706.6 | 567.9 | 493.9 | 460.6 | 455.0 |
| 17.5° | 1069.2 | 1063.6 | 1041.4 | 995.2 | 897.1 | 697.4 | 484.6 | 368.1 | 296.0 | 279.3 | 273.8 |
| 20° | 1122.8 | 1121.0 | 1072.9 | 1013.7 | 808.3 | 508.7 | 316.3 | 242.3 | 222.0 | 223.8 | 220.1 |
| 22.5° | 1180.1 | 1170.9 | 1113.6 | 991.5 | 643.7 | 338.5 | 225.7 | 216.4 | 209.0 | 207.2 | 210.9 |
| 25° | 1244.9 | 1211.6 | 1154.2 | 941.5 | 473.5 | 233.1 | 212.7 | 205.3 | 197.9 | 196.1 | 196.1 |
| 27.5° | 1270.8 | 1248.6 | 1172.7 | 821.3 | 299.7 | 203.5 | 199.8 | 190.5 | 181.3 | 175.7 | 173.9 |
| 30° | 1330.0 | 1293.0 | 1191.2 | 645.6 | 212.7 | 186.8 | 181.3 | 170.2 | 157.2 | 148.0 | 148.0 |
| 32.5° | 1389.2 | 1344.8 | 1193.1 | 451.3 | 177.6 | 168.3 | 159.1 | 144.3 | 127.6 | 118.4 | 120.2 |
| 35° | 1463.2 | 1402.1 | 1172.7 | 292.3 | 159.1 | 148.0 | 129.5 | 112.8 | 98.0 | 90.6 | 90.6 |
| 37.5° | 1588.9 | 1531.6 | 1089.5 | 192.4 | 144.3 | 125.8 | 107.3 | 88.8 | 75.8 | 70.3 | 70.3 |
| 40° | 1748.0 | 1674.0 | 974.8 | 151.7 | 127.6 | 107.3 | 85.1 | 68.4 | 61.0 | 55.5 | 55.5 |
| 42.5° | 1938.5 | 1846.1 | 804.6 | 135.0 | 112.8 | 88.8 | 66.6 | 53.6 | 46.2 | 46.2 | 44.4 |
| 45° | 2129.1 | 1977.4 | 630.8 | 123.9 | 99.9 | 74.0 | 51.8 | 42.5 | 38.8 | 37.0 | 37.0 |
| 47.5° | 2401.0 | 2136.5 | 451.3 | 112.8 | 86.9 | 57.3 | 42.5 | 35.1 | 31.4 | 29.6 | 31.4 |
| 50° | 2661.8 | 2286.3 | 320.0 | 101.7 | 72.1 | 46.2 | 35.1 | 31.4 | 27.7 | 25.9 | 25.9 |
| 52.5° | 2891.2 | 2389.9 | 223.8 | 88.8 | 61.0 | 38.8 | 31.4 | 27.7 | 25.9 | 24.0 | 24.0 |
| 55° | 3017.0 | 2354.7 | 153.5 | 75.8 | 49.9 | 33.3 | 27.7 | 24.0 | 22.2 | 20.3 | 20.3 |
| 57.5° | 3146.4 | 2256.7 | 116.5 | 62.9 | 40.7 | 31.4 | 25.9 | 22.2 | 20.3 | 18.5 | 18.5 |
| 60° | 3255.6 | 2184.6 | 90.6 | 49.9 | 33.3 | 25.9 | 22.2 | 18.5 | 16.6 | 14.8 | 12.9 |
| 62.5° | 3261.1 | 2040.3 | 66.6 | 37.0 | 25.9 | 22.2 | 18.5 | 14.8 | 9.2 | 7.4 | 5.5 |
| 65° | 3283.3 | 1888.6 | 48.1 | 27.7 | 18.5 | 16.6 | 12.9 | 7.4 | 3.7 | 0.0 | 0.0 |
| 67.5° | 3205.6 | 1709.2 | 38.8 | 20.3 | 12.9 | 9.2 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 |
| 70° | 2889.3 | 1442.8 | 29.6 | 14.8 | 9.2 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2068.0 | 937.8 | 20.3 | 11.1 | 3.7 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1102.5 | 399.5 | 14.8 | 7.4 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 345.9 | 101.7 | 9.2 | 3.7 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 75.8 | 27.7 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 25.9 | 11.1 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 9.2 | 3.7 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.7 | 1.8 | 1.8 | 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)