

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: P676240

Luminaire Tested: **CCW-SA-2E-722-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676240
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-722-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

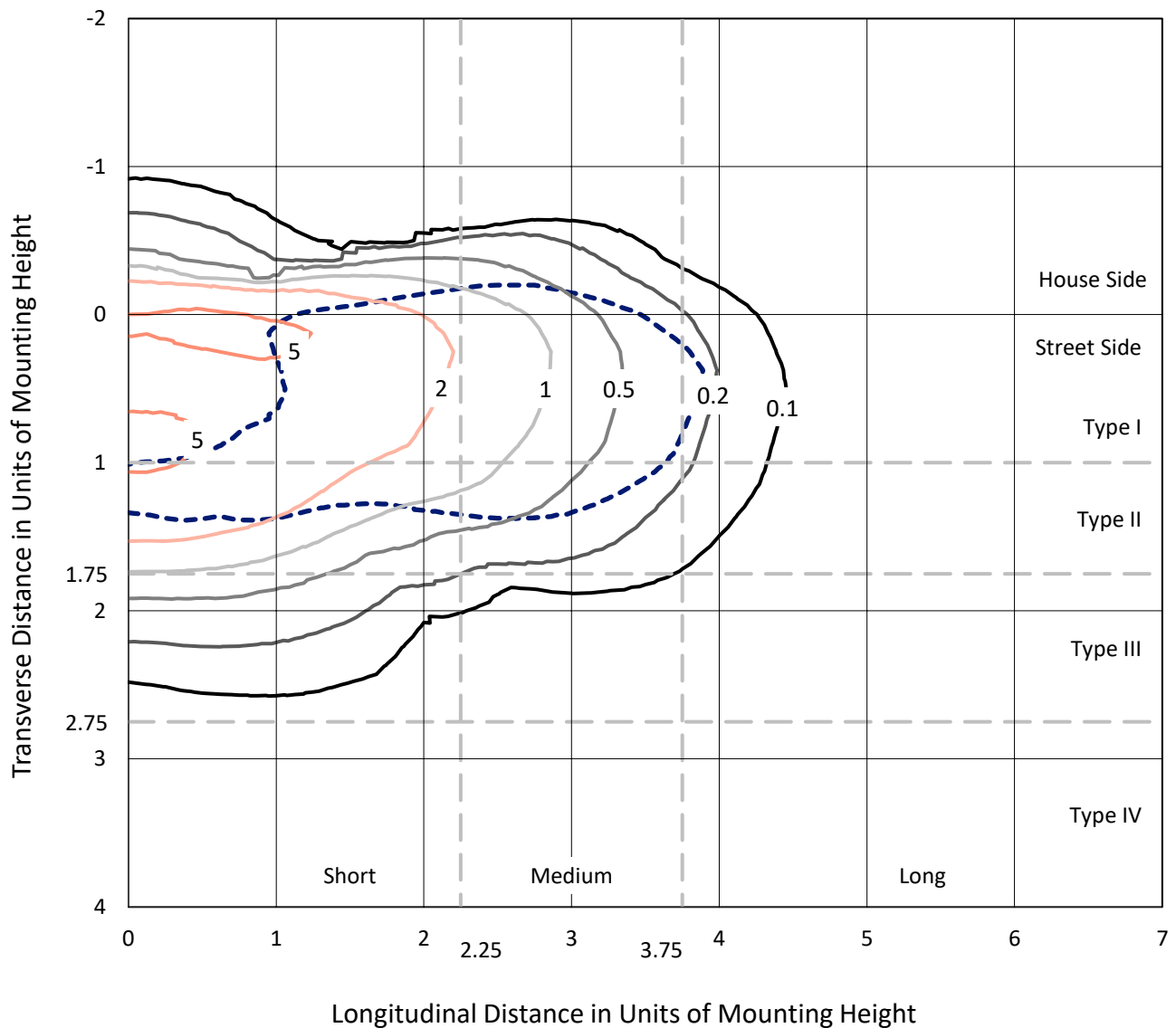
Lumens per Lamp: N/A
Luminaire Lumens: 7775.7 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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: P676240
 CATALOG NUMBER: CCW-SA-2E-722-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

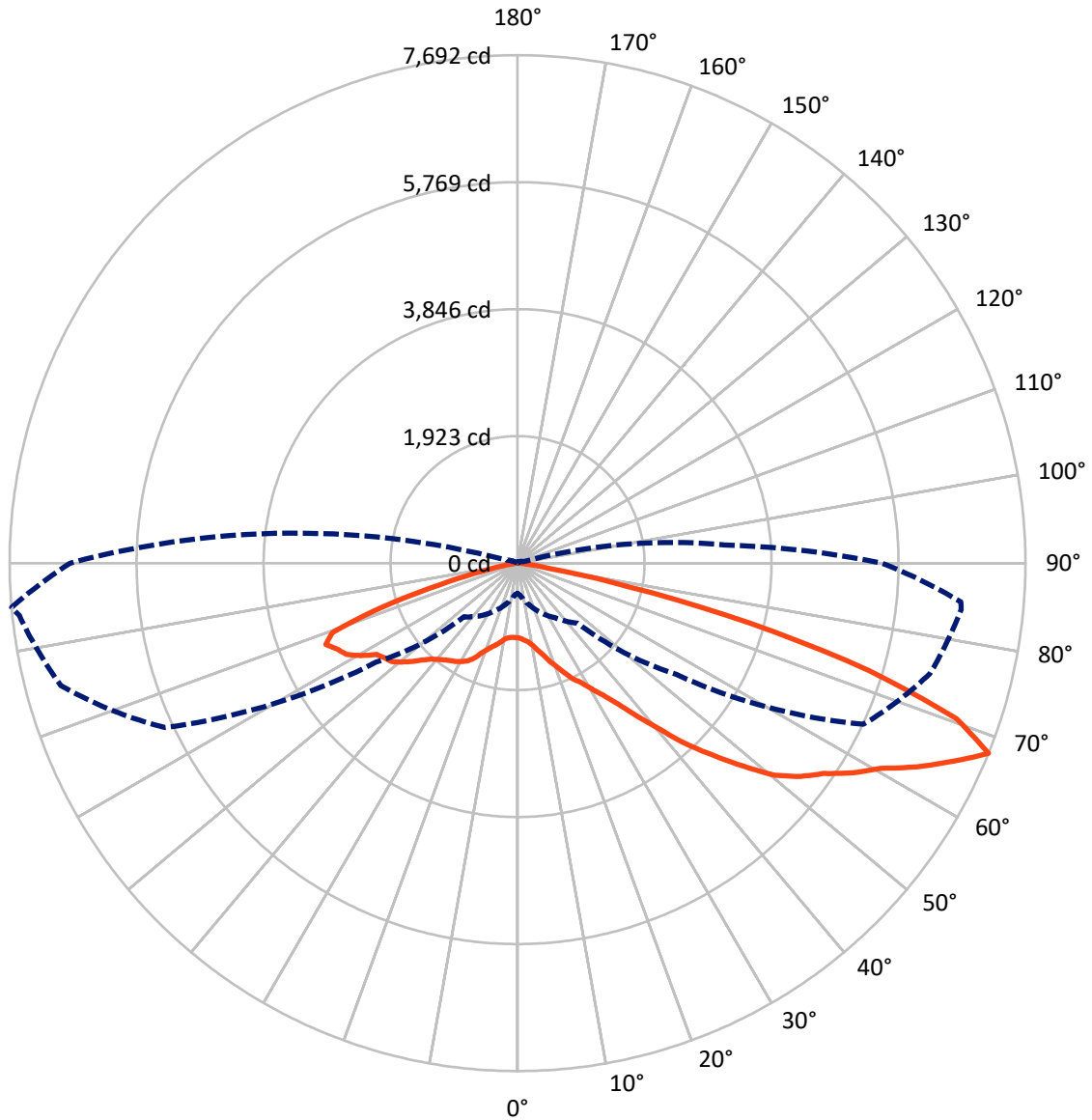
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

REPORT NUMBER: P676240
CATALOG NUMBER: CCW-SA-2E-722-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P676240
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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1104.7 | 0.0 | 1104.7 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 6671.0 | 0.0 | 6671.0 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 7775.7 | 0.0 | 7775.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 103.1 | 1.3 |
| 10°-20° | 277.2 | 3.6 |
| 20°-30° | 460.4 | 5.9 |
| 30°-40° | 792.1 | 10.2 |
| 40°-50° | 1423.5 | 18.3 |
| 50°-60° | 2026.5 | 26.1 |
| 60°-70° | 1847.5 | 23.8 |
| 70°-80° | 786.7 | 10.1 |
| 80°-90° | 58.6 | 0.8 |
| 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° | 7775.7 | 100.0 |
| 0°-180° | 7775.7 | 100.0 |



REPORT NUMBER: P676240

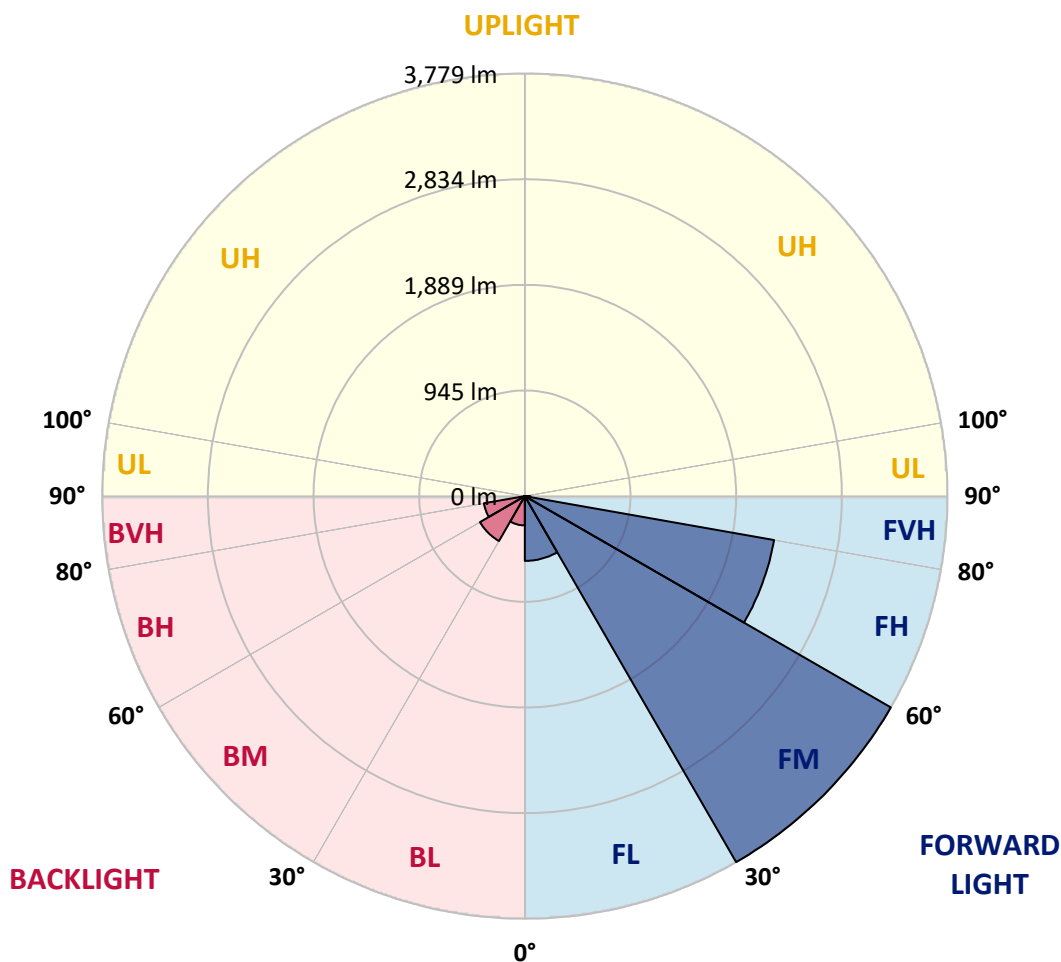
CATALOG NUMBER: CCW-SA-2E-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 579.3 | 7.4 | | | |
| FM (30°-60°) | 3779.0 | 48.6 | | | |
| FH (60°-80°) | 2263.0 | 29.1 | | | G2/5000 |
| FVH (80°-90°) | 49.7 | 0.6 | | | G1/100 |
| BL (0°-30°) | 261.5 | 3.4 | B1/500 | | |
| BM (30°-60°) | 463.1 | 6.0 | B1/1000 | | |
| BH (60°-80°) | 371.2 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 8.8 | 0.1 | | | 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 II Short





REPORT NUMBER: P676240

CATALOG NUMBER: CCW-SA-2E-722-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 |
| 2.5° | 1171.5 | 1182.6 | 1182.6 | 1178.9 | 1167.8 | 1160.3 | 1156.6 | 1149.2 | 1141.8 | 1141.8 | 1145.5 |
| 5° | 1182.6 | 1171.5 | 1186.3 | 1167.8 | 1167.8 | 1167.8 | 1182.6 | 1175.2 | 1171.5 | 1152.9 | 1152.9 |
| 7.5° | 1182.6 | 1171.5 | 1171.5 | 1182.6 | 1171.5 | 1178.9 | 1197.4 | 1190.0 | 1204.8 | 1171.5 | 1178.9 |
| 10° | 1149.2 | 1145.5 | 1152.9 | 1167.8 | 1171.5 | 1186.3 | 1204.8 | 1241.9 | 1245.6 | 1223.4 | 1219.7 |
| 12.5° | 1082.5 | 1078.8 | 1104.7 | 1112.2 | 1156.6 | 1193.7 | 1249.3 | 1279.0 | 1312.3 | 1301.2 | 1279.0 |
| 15° | 1034.3 | 1041.7 | 1060.3 | 1089.9 | 1130.7 | 1197.4 | 1260.4 | 1327.2 | 1386.5 | 1371.7 | 1364.2 |
| 17.5° | 1052.8 | 1049.1 | 1052.8 | 1071.4 | 1123.3 | 1190.0 | 1297.5 | 1375.4 | 1460.6 | 1460.6 | 1468.0 |
| 20° | 1108.4 | 1119.6 | 1115.9 | 1104.7 | 1130.7 | 1186.3 | 1297.5 | 1434.7 | 1575.6 | 1564.4 | 1564.4 |
| 22.5° | 1204.8 | 1208.5 | 1186.3 | 1178.9 | 1175.2 | 1208.5 | 1319.8 | 1508.8 | 1671.9 | 1694.2 | 1686.8 |
| 25° | 1304.9 | 1308.6 | 1301.2 | 1279.0 | 1249.3 | 1256.7 | 1360.5 | 1568.1 | 1805.4 | 1842.5 | 1835.1 |
| 27.5° | 1471.8 | 1468.0 | 1449.5 | 1423.6 | 1379.1 | 1345.7 | 1423.6 | 1612.6 | 1909.2 | 1972.2 | 1953.7 |
| 30° | 1638.6 | 1627.5 | 1601.5 | 1568.1 | 1527.4 | 1464.3 | 1501.4 | 1697.9 | 2039.0 | 2098.3 | 2057.5 |
| 32.5° | 1842.5 | 1820.2 | 1827.6 | 1775.7 | 1690.5 | 1590.4 | 1583.0 | 1775.7 | 2142.8 | 2228.0 | 2194.7 |
| 35° | 2102.0 | 2076.0 | 2039.0 | 1990.8 | 1909.2 | 1775.7 | 1735.0 | 1901.8 | 2317.0 | 2380.0 | 2380.0 |
| 37.5° | 2443.0 | 2469.0 | 2424.5 | 2224.3 | 2135.3 | 2009.3 | 1924.0 | 2031.5 | 2469.0 | 2621.0 | 2583.9 |
| 40° | 2791.5 | 2813.8 | 2732.2 | 2583.9 | 2391.1 | 2235.4 | 2183.5 | 2242.8 | 2698.8 | 2880.5 | 2810.0 |
| 42.5° | 3073.3 | 3102.9 | 3073.3 | 2880.5 | 2728.5 | 2528.3 | 2435.6 | 2491.2 | 2995.4 | 3214.1 | 3121.5 |
| 45° | 3369.8 | 3399.5 | 3366.1 | 3240.1 | 3091.8 | 2976.9 | 2743.3 | 2813.8 | 3306.8 | 3633.0 | 3529.2 |
| 47.5° | 3592.3 | 3629.3 | 3570.0 | 3544.1 | 3425.4 | 3406.9 | 3010.2 | 3088.1 | 3633.0 | 4055.7 | 3925.9 |
| 50° | 3644.2 | 3684.9 | 3736.8 | 3766.5 | 3725.7 | 3770.2 | 3369.8 | 3436.6 | 3974.1 | 4444.9 | 4318.9 |
| 52.5° | 3521.8 | 3562.6 | 3677.5 | 3814.7 | 4003.8 | 4137.2 | 3733.1 | 3788.7 | 4330.0 | 4767.4 | 4700.7 |
| 55° | 3162.2 | 3199.3 | 3432.9 | 3618.2 | 4070.5 | 4289.2 | 4081.6 | 4315.2 | 4585.8 | 5104.8 | 4941.7 |
| 57.5° | 2558.0 | 2602.4 | 2910.1 | 3195.6 | 3848.1 | 4204.0 | 4289.2 | 4752.6 | 5008.4 | 5353.2 | 5164.1 |
| 60° | 1816.5 | 1842.5 | 2109.4 | 2613.6 | 3232.7 | 3777.6 | 4248.4 | 5078.8 | 5342.1 | 5686.8 | 5586.7 |
| 62.5° | 1045.4 | 1067.7 | 1345.7 | 1820.2 | 2439.3 | 3154.8 | 4066.8 | 5386.5 | 5701.7 | 6053.8 | 5998.2 |
| 65° | 693.2 | 700.7 | 889.7 | 1149.2 | 1586.7 | 2324.4 | 3607.1 | 5660.9 | 6057.5 | 6346.7 | 6283.7 |
| 67.5° | 456.0 | 496.8 | 645.1 | 823.0 | 1015.8 | 1286.4 | 2939.8 | 5775.8 | 6465.3 | 6754.5 | 6739.7 |
| 70° | 326.2 | 341.1 | 463.4 | 633.9 | 763.7 | 722.9 | 1720.1 | 4963.9 | 6446.8 | 6865.7 | 6743.4 |
| 72.5° | 192.8 | 207.6 | 307.7 | 474.5 | 600.6 | 459.7 | 804.5 | 3510.7 | 5342.1 | 5479.2 | 5445.9 |
| 75° | 140.9 | 140.9 | 189.1 | 341.1 | 437.4 | 329.9 | 378.1 | 2220.6 | 3547.8 | 3851.8 | 3848.1 |
| 77.5° | 100.1 | 103.8 | 129.8 | 203.9 | 337.4 | 241.0 | 207.6 | 1234.5 | 1938.9 | 2120.5 | 2020.4 |
| 80° | 59.3 | 63.0 | 89.0 | 122.3 | 244.7 | 174.2 | 137.2 | 563.5 | 745.1 | 752.6 | 715.5 |
| 82.5° | 44.5 | 44.5 | 59.3 | 85.3 | 170.5 | 118.6 | 85.3 | 215.0 | 241.0 | 218.7 | 185.4 |
| 85° | 26.0 | 22.2 | 44.5 | 63.0 | 100.1 | 66.7 | 59.3 | 100.1 | 111.2 | 81.6 | 74.1 |
| 87.5° | 7.4 | 7.4 | 18.5 | 22.2 | 44.5 | 37.1 | 26.0 | 37.1 | 51.9 | 29.7 | 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 |



REPORT NUMBER: P676240
 CATALOG NUMBER: CCW-SA-2E-722-U-T2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 |
| 2.5° | 1138.1 | 1127.0 | 1108.4 | 1101.0 | 1075.1 | 1064.0 | 1056.5 | 1038.0 | 1041.7 | 1030.6 | 1030.6 |
| 5° | 1127.0 | 1127.0 | 1089.9 | 1049.1 | 1008.4 | 982.4 | 952.7 | 915.7 | 915.7 | 900.8 | 904.6 |
| 7.5° | 1167.8 | 1138.1 | 1089.9 | 1015.8 | 949.0 | 889.7 | 863.8 | 826.7 | 804.5 | 793.3 | 793.3 |
| 10° | 1193.7 | 1164.1 | 1082.5 | 993.5 | 908.3 | 834.1 | 778.5 | 726.6 | 697.0 | 697.0 | 693.2 |
| 12.5° | 1264.2 | 1219.7 | 1112.2 | 989.8 | 863.8 | 752.6 | 667.3 | 608.0 | 567.2 | 537.5 | 545.0 |
| 15° | 1323.5 | 1275.3 | 1127.0 | 960.2 | 785.9 | 630.2 | 526.4 | 415.2 | 359.6 | 329.9 | 318.8 |
| 17.5° | 1416.1 | 1327.2 | 1160.3 | 908.3 | 667.3 | 493.1 | 341.1 | 248.4 | 226.1 | 222.4 | 222.4 |
| 20° | 1494.0 | 1390.2 | 1164.1 | 808.2 | 548.7 | 315.1 | 218.7 | 203.9 | 192.8 | 189.1 | 185.4 |
| 22.5° | 1601.5 | 1471.8 | 1149.2 | 693.2 | 393.0 | 211.3 | 185.4 | 170.5 | 163.1 | 152.0 | 152.0 |
| 25° | 1712.7 | 1579.3 | 1119.6 | 585.7 | 241.0 | 181.7 | 163.1 | 148.3 | 133.5 | 126.0 | 129.8 |
| 27.5° | 1831.4 | 1660.8 | 1034.3 | 456.0 | 185.4 | 159.4 | 133.5 | 122.3 | 114.9 | 111.2 | 111.2 |
| 30° | 1927.7 | 1712.7 | 908.3 | 304.0 | 166.8 | 140.9 | 118.6 | 107.5 | 100.1 | 96.4 | 96.4 |
| 32.5° | 1998.2 | 1757.2 | 767.4 | 203.9 | 152.0 | 126.0 | 107.5 | 96.4 | 89.0 | 85.3 | 85.3 |
| 35° | 2116.8 | 1790.6 | 637.6 | 174.2 | 137.2 | 111.2 | 92.7 | 85.3 | 77.9 | 77.9 | 77.9 |
| 37.5° | 2298.5 | 1835.1 | 507.9 | 159.4 | 126.0 | 100.1 | 89.0 | 77.9 | 74.1 | 70.4 | 70.4 |
| 40° | 2457.9 | 1890.7 | 363.3 | 144.6 | 114.9 | 92.7 | 77.9 | 70.4 | 66.7 | 63.0 | 63.0 |
| 42.5° | 2687.7 | 1953.7 | 237.3 | 129.8 | 103.8 | 85.3 | 70.4 | 63.0 | 59.3 | 55.6 | 55.6 |
| 45° | 2980.6 | 2057.5 | 185.4 | 114.9 | 92.7 | 77.9 | 66.7 | 59.3 | 51.9 | 51.9 | 48.2 |
| 47.5° | 3292.0 | 2183.5 | 166.8 | 107.5 | 85.3 | 70.4 | 59.3 | 51.9 | 48.2 | 44.5 | 44.5 |
| 50° | 3581.1 | 2305.9 | 155.7 | 100.1 | 77.9 | 66.7 | 55.6 | 48.2 | 40.8 | 37.1 | 37.1 |
| 52.5° | 3840.6 | 2420.8 | 148.3 | 92.7 | 74.1 | 59.3 | 48.2 | 40.8 | 37.1 | 33.4 | 33.4 |
| 55° | 3977.8 | 2472.7 | 144.6 | 89.0 | 66.7 | 55.6 | 44.5 | 37.1 | 33.4 | 29.7 | 29.7 |
| 57.5° | 4192.8 | 2539.4 | 140.9 | 85.3 | 63.0 | 48.2 | 40.8 | 33.4 | 29.7 | 26.0 | 26.0 |
| 60° | 4541.3 | 2758.1 | 137.2 | 81.6 | 59.3 | 48.2 | 37.1 | 29.7 | 22.2 | 18.5 | 18.5 |
| 62.5° | 4830.5 | 2939.8 | 122.3 | 70.4 | 51.9 | 40.8 | 29.7 | 22.2 | 14.8 | 11.1 | 11.1 |
| 65° | 5160.4 | 3025.1 | 107.5 | 63.0 | 44.5 | 33.4 | 22.2 | 14.8 | 11.1 | 3.7 | 3.7 |
| 67.5° | 5520.0 | 3154.8 | 89.0 | 55.6 | 40.8 | 26.0 | 18.5 | 11.1 | 3.7 | 0.0 | 0.0 |
| 70° | 5330.9 | 2991.7 | 74.1 | 48.2 | 37.1 | 22.2 | 14.8 | 7.4 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4178.0 | 2142.8 | 59.3 | 44.5 | 33.4 | 22.2 | 14.8 | 3.7 | 0.0 | 0.0 | 0.0 |
| 75° | 2791.5 | 1212.3 | 51.9 | 37.1 | 26.0 | 18.5 | 11.1 | 3.7 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1516.2 | 545.0 | 44.5 | 33.4 | 22.2 | 14.8 | 11.1 | 3.7 | 0.0 | 0.0 | 0.0 |
| 80° | 493.1 | 215.0 | 37.1 | 29.7 | 22.2 | 14.8 | 11.1 | 3.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 133.5 | 66.7 | 37.1 | 29.7 | 22.2 | 14.8 | 11.1 | 3.7 | 0.0 | 0.0 | 0.0 |
| 85° | 55.6 | 44.5 | 37.1 | 29.7 | 22.2 | 14.8 | 11.1 | 3.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 22.2 | 14.8 | 14.8 | 18.5 | 14.8 | 11.1 | 7.4 | 3.7 | 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 |



REPORT NUMBER: P676240
 CATALOG NUMBER: CCW-SA-2E-722-U-T2-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 |
| 2.5° | 1034.3 | 1041.7 | 1045.4 | 1045.4 | 1064.0 | 1082.5 | 1104.7 | 1123.3 | 1123.3 | 1134.4 | 1145.5 |
| 5° | 908.3 | 915.7 | 926.8 | 960.2 | 997.2 | 1038.0 | 1078.8 | 1108.4 | 1149.2 | 1167.8 | 1178.9 |
| 7.5° | 804.5 | 811.9 | 841.5 | 874.9 | 926.8 | 997.2 | 1067.7 | 1134.4 | 1175.2 | 1193.7 | 1208.5 |
| 10° | 697.0 | 708.1 | 741.4 | 800.8 | 867.5 | 952.7 | 1034.3 | 1149.2 | 1216.0 | 1253.0 | 1267.9 |
| 12.5° | 541.2 | 570.9 | 615.4 | 678.4 | 763.7 | 893.4 | 1045.4 | 1164.1 | 1279.0 | 1323.5 | 1353.1 |
| 15° | 341.1 | 367.0 | 437.4 | 537.5 | 652.5 | 804.5 | 1015.8 | 1186.3 | 1345.7 | 1390.2 | 1438.4 |
| 17.5° | 218.7 | 222.4 | 244.7 | 352.2 | 500.5 | 693.2 | 971.3 | 1219.7 | 1419.9 | 1482.9 | 1557.0 |
| 20° | 185.4 | 192.8 | 196.5 | 211.3 | 333.6 | 570.9 | 878.6 | 1260.4 | 1508.8 | 1594.1 | 1664.5 |
| 22.5° | 155.7 | 159.4 | 166.8 | 177.9 | 200.2 | 415.2 | 752.6 | 1260.4 | 1586.7 | 1712.7 | 1794.3 |
| 25° | 126.0 | 133.5 | 140.9 | 152.0 | 174.2 | 259.5 | 622.8 | 1238.2 | 1679.4 | 1835.1 | 1938.9 |
| 27.5° | 111.2 | 111.2 | 118.6 | 129.8 | 148.3 | 181.7 | 493.1 | 1171.5 | 1749.8 | 1909.2 | 2046.4 |
| 30° | 96.4 | 100.1 | 103.8 | 114.9 | 133.5 | 159.4 | 341.1 | 1064.0 | 1823.9 | 2053.8 | 2209.5 |
| 32.5° | 85.3 | 85.3 | 92.7 | 100.1 | 118.6 | 144.6 | 218.7 | 900.8 | 1920.3 | 2165.0 | 2383.7 |
| 35° | 77.9 | 77.9 | 81.6 | 89.0 | 107.5 | 129.8 | 170.5 | 763.7 | 2035.2 | 2376.3 | 2617.3 |
| 37.5° | 70.4 | 70.4 | 74.1 | 81.6 | 96.4 | 114.9 | 155.7 | 656.2 | 2153.9 | 2587.6 | 2939.8 |
| 40° | 63.0 | 63.0 | 66.7 | 74.1 | 85.3 | 103.8 | 140.9 | 530.1 | 2302.2 | 2899.0 | 3292.0 |
| 42.5° | 55.6 | 55.6 | 59.3 | 66.7 | 77.9 | 92.7 | 122.3 | 396.7 | 2498.6 | 3236.4 | 3748.0 |
| 45° | 48.2 | 48.2 | 51.9 | 59.3 | 66.7 | 85.3 | 111.2 | 304.0 | 2713.7 | 3610.8 | 4148.3 |
| 47.5° | 40.8 | 44.5 | 48.2 | 55.6 | 63.0 | 77.9 | 100.1 | 266.9 | 2925.0 | 4007.5 | 4593.2 |
| 50° | 37.1 | 37.1 | 40.8 | 48.2 | 59.3 | 70.4 | 92.7 | 263.2 | 3140.0 | 4311.5 | 5049.2 |
| 52.5° | 33.4 | 33.4 | 37.1 | 44.5 | 55.6 | 66.7 | 89.0 | 270.6 | 3317.9 | 4593.2 | 5368.0 |
| 55° | 29.7 | 29.7 | 33.4 | 37.1 | 48.2 | 63.0 | 81.6 | 278.0 | 3444.0 | 4878.7 | 5623.8 |
| 57.5° | 26.0 | 26.0 | 29.7 | 37.1 | 44.5 | 55.6 | 74.1 | 285.5 | 3647.9 | 5160.4 | 5994.5 |
| 60° | 18.5 | 18.5 | 26.0 | 33.4 | 40.8 | 48.2 | 70.4 | 292.9 | 3974.1 | 5549.7 | 6309.6 |
| 62.5° | 11.1 | 11.1 | 14.8 | 26.0 | 33.4 | 44.5 | 63.0 | 278.0 | 4278.1 | 6050.1 | 6791.6 |
| 65° | 3.7 | 7.4 | 11.1 | 14.8 | 26.0 | 37.1 | 51.9 | 252.1 | 4533.9 | 6550.6 | 7236.4 |
| 67.5° | 0.0 | 0.0 | 3.7 | 11.1 | 22.2 | 29.7 | 44.5 | 185.4 | 4574.7 | 6776.7 | 7692.4 |
| 70° | 0.0 | 0.0 | 3.7 | 11.1 | 18.5 | 29.7 | 40.8 | 103.8 | 3896.3 | 6053.8 | 7051.1 |
| 72.5° | 0.0 | 0.0 | 0.0 | 7.4 | 18.5 | 26.0 | 37.1 | 77.9 | 2873.1 | 4563.5 | 5571.9 |
| 75° | 0.0 | 0.0 | 0.0 | 3.7 | 14.8 | 22.2 | 33.4 | 59.3 | 1746.1 | 3043.6 | 3636.8 |
| 77.5° | 0.0 | 0.0 | 0.0 | 3.7 | 11.1 | 22.2 | 33.4 | 51.9 | 615.4 | 1449.5 | 1709.0 |
| 80° | 0.0 | 0.0 | 0.0 | 7.4 | 14.8 | 22.2 | 29.7 | 44.5 | 148.3 | 363.3 | 489.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 3.7 | 11.1 | 18.5 | 26.0 | 37.1 | 59.3 | 107.5 | 170.5 |
| 85° | 0.0 | 0.0 | 0.0 | 3.7 | 7.4 | 18.5 | 26.0 | 33.4 | 40.8 | 51.9 | 74.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 7.4 | 11.1 | 14.8 | 14.8 | 14.8 | 26.0 |
| 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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| 0° | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 | 1130.7 |
| 2.5° | 1141.8 | 1156.6 | 1164.1 | 1178.9 | 1186.3 | 1182.6 | 1178.9 | 1190.0 | 1182.6 | 1171.5 |
| 5° | 1182.6 | 1182.6 | 1193.7 | 1197.4 | 1197.4 | 1186.3 | 1193.7 | 1190.0 | 1182.6 | 1182.6 |
| 7.5° | 1227.1 | 1245.6 | 1245.6 | 1223.4 | 1219.7 | 1212.3 | 1212.3 | 1182.6 | 1171.5 | 1182.6 |
| 10° | 1271.6 | 1286.4 | 1290.1 | 1264.2 | 1230.8 | 1216.0 | 1197.4 | 1160.3 | 1141.8 | 1149.2 |
| 12.5° | 1364.2 | 1364.2 | 1323.5 | 1293.8 | 1249.3 | 1197.4 | 1152.9 | 1101.0 | 1075.1 | 1082.5 |
| 15° | 1431.0 | 1445.8 | 1390.2 | 1323.5 | 1245.6 | 1149.2 | 1101.0 | 1060.3 | 1045.4 | 1034.3 |
| 17.5° | 1560.7 | 1531.1 | 1442.1 | 1345.7 | 1234.5 | 1134.4 | 1101.0 | 1064.0 | 1052.8 | 1052.8 |
| 20° | 1671.9 | 1657.1 | 1523.7 | 1349.4 | 1230.8 | 1164.1 | 1141.8 | 1123.3 | 1119.6 | 1108.4 |
| 22.5° | 1823.9 | 1757.2 | 1586.7 | 1390.2 | 1271.6 | 1212.3 | 1204.8 | 1223.4 | 1212.3 | 1204.8 |
| 25° | 1938.9 | 1883.3 | 1634.9 | 1449.5 | 1334.6 | 1316.1 | 1327.2 | 1345.7 | 1316.1 | 1304.9 |
| 27.5° | 2094.6 | 1990.8 | 1727.5 | 1527.4 | 1419.9 | 1438.4 | 1475.5 | 1479.2 | 1460.6 | 1471.8 |
| 30° | 2239.1 | 2127.9 | 1798.0 | 1616.3 | 1564.4 | 1583.0 | 1638.6 | 1679.4 | 1653.4 | 1638.6 |
| 32.5° | 2446.7 | 2276.2 | 1938.9 | 1764.6 | 1746.1 | 1794.3 | 1857.3 | 1883.3 | 1849.9 | 1842.5 |
| 35° | 2665.5 | 2446.7 | 2083.4 | 1931.4 | 1964.8 | 2031.5 | 2087.1 | 2131.6 | 2079.7 | 2102.0 |
| 37.5° | 3006.5 | 2721.1 | 2328.1 | 2194.7 | 2209.5 | 2235.4 | 2339.2 | 2461.6 | 2487.5 | 2443.0 |
| 40° | 3362.4 | 3017.7 | 2554.3 | 2450.5 | 2483.8 | 2554.3 | 2676.6 | 2791.5 | 2850.8 | 2791.5 |
| 42.5° | 3773.9 | 3303.1 | 2902.7 | 2780.4 | 2813.8 | 2913.8 | 3077.0 | 3169.6 | 3162.2 | 3073.3 |
| 45° | 4281.8 | 3699.8 | 3229.0 | 3077.0 | 3199.3 | 3288.3 | 3451.4 | 3462.5 | 3392.1 | 3369.8 |
| 47.5° | 4671.1 | 4033.4 | 3581.1 | 3484.8 | 3651.6 | 3655.3 | 3692.4 | 3696.1 | 3618.2 | 3592.3 |
| 50° | 5101.1 | 4419.0 | 3974.1 | 3833.2 | 4115.0 | 3985.2 | 3885.1 | 3818.4 | 3699.8 | 3644.2 |
| 52.5° | 5523.7 | 4693.3 | 4337.4 | 4192.8 | 4485.7 | 4140.9 | 3959.3 | 3755.4 | 3581.1 | 3521.8 |
| 55° | 5749.8 | 5145.6 | 4867.5 | 4530.2 | 4567.3 | 4185.4 | 3729.4 | 3473.6 | 3177.1 | 3162.2 |
| 57.5° | 6016.8 | 5449.6 | 5316.1 | 4760.0 | 4430.1 | 3874.0 | 3251.2 | 2913.8 | 2595.0 | 2558.0 |
| 60° | 6331.9 | 5931.5 | 5790.6 | 4723.0 | 3944.4 | 3254.9 | 2576.5 | 2142.8 | 1842.5 | 1816.5 |
| 62.5° | 6684.1 | 6502.4 | 6083.5 | 4359.7 | 3132.6 | 2291.0 | 1701.6 | 1338.3 | 1060.3 | 1045.4 |
| 65° | 7240.1 | 6980.6 | 6239.2 | 3670.1 | 2072.3 | 1468.0 | 1130.7 | 867.5 | 700.7 | 693.2 |
| 67.5° | 7588.6 | 7162.3 | 5890.7 | 2617.3 | 1149.2 | 971.3 | 793.3 | 630.2 | 485.6 | 456.0 |
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| 75° | 3866.6 | 3069.6 | 1968.5 | 326.2 | 292.9 | 422.6 | 326.2 | 166.8 | 140.9 | 140.9 |
| 77.5° | 1727.5 | 1564.4 | 1008.4 | 200.2 | 218.7 | 322.5 | 189.1 | 114.9 | 103.8 | 100.1 |
| 80° | 526.4 | 552.4 | 411.5 | 137.2 | 163.1 | 244.7 | 114.9 | 77.9 | 63.0 | 59.3 |
| 82.5° | 177.9 | 207.6 | 185.4 | 81.6 | 111.2 | 174.2 | 77.9 | 51.9 | 44.5 | 44.5 |
| 85° | 85.3 | 103.8 | 92.7 | 51.9 | 59.3 | 85.3 | 63.0 | 40.8 | 26.0 | 26.0 |
| 87.5° | 33.4 | 48.2 | 33.4 | 22.2 | 33.4 | 44.5 | 26.0 | 18.5 | 7.4 | 7.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)