

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: P675538

Luminaire Tested: **CCW-SA-2A-730-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675538
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-730-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL3 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

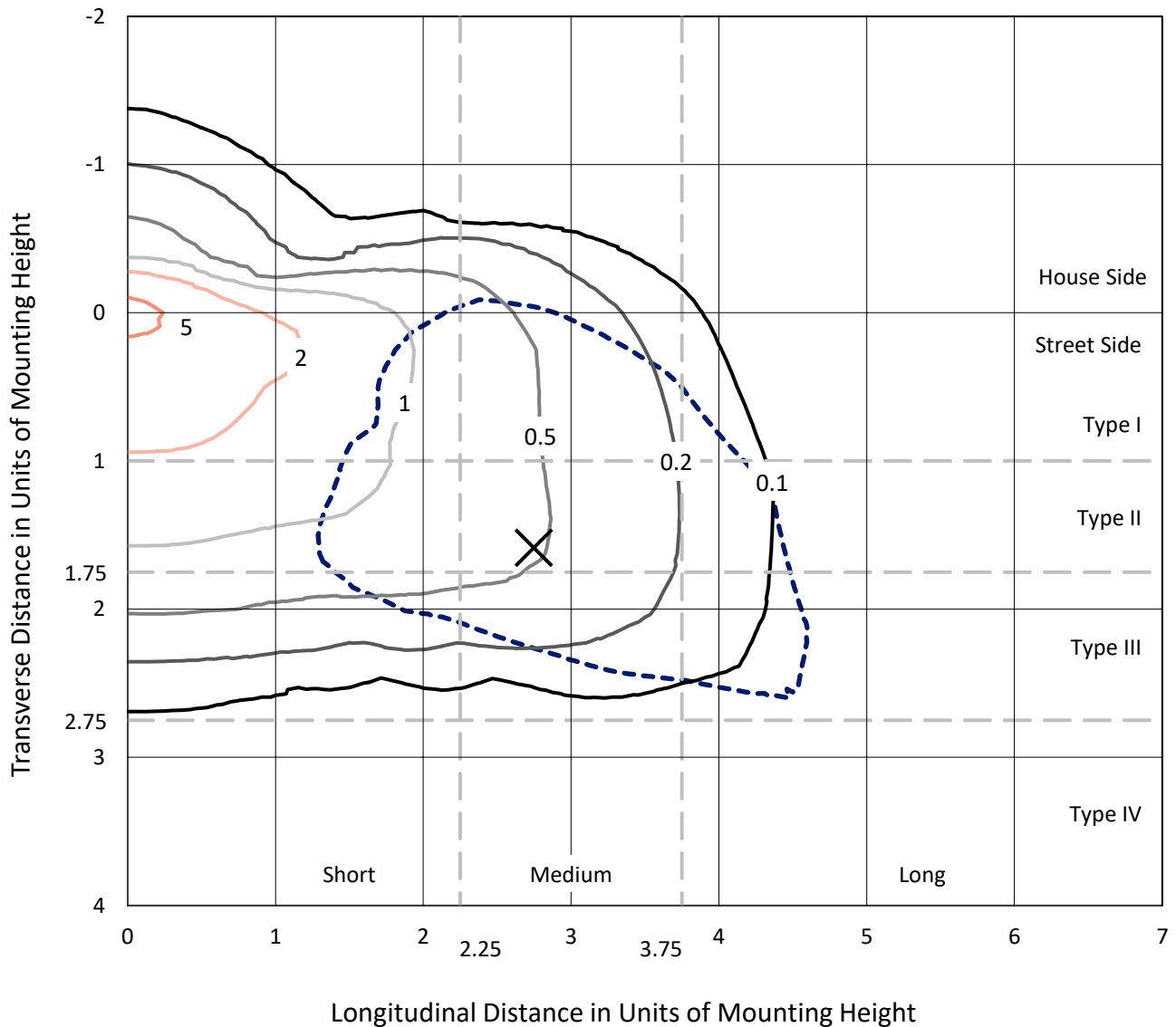
Lumens per Lamp: N/A
Luminaire Lumens: 4926.4 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

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Iso-Footcandle Lines of Horizontal Illumination

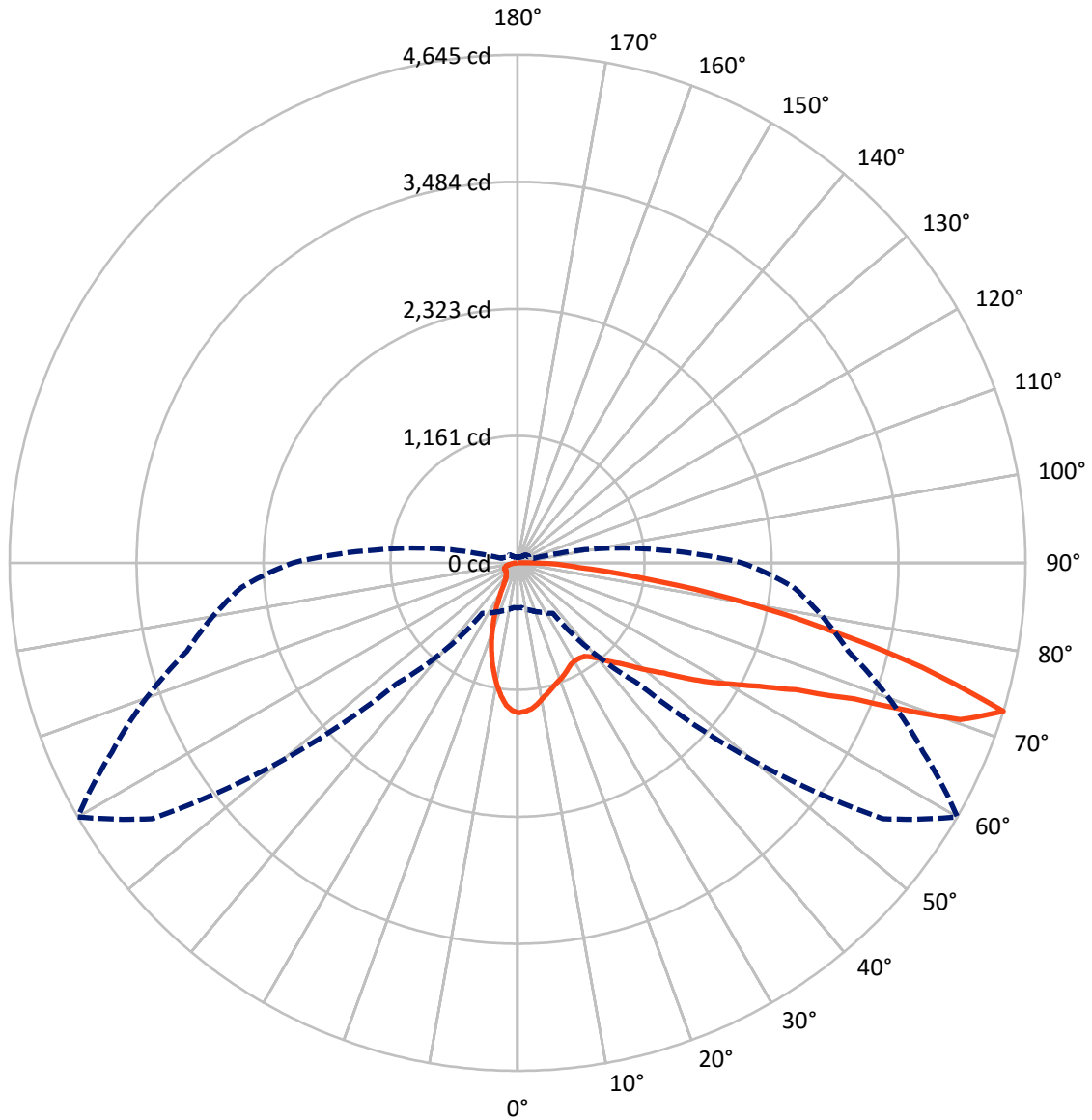
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 846.3 | 0.0 | 846.3 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 4080.1 | 0.0 | 4080.1 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 4926.4 | 0.0 | 4926.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.9 | 2.4 |
| 10°-20° | 269.6 | 5.5 |
| 20°-30° | 345.1 | 7.0 |
| 30°-40° | 441.4 | 9.0 |
| 40°-50° | 605.4 | 12.3 |
| 50°-60° | 875.7 | 17.8 |
| 60°-70° | 1201.3 | 24.4 |
| 70°-80° | 901.4 | 18.3 |
| 80°-90° | 167.5 | 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° | 4926.4 | 100.0 |
| 0°-180° | 4926.4 | 100.0 |

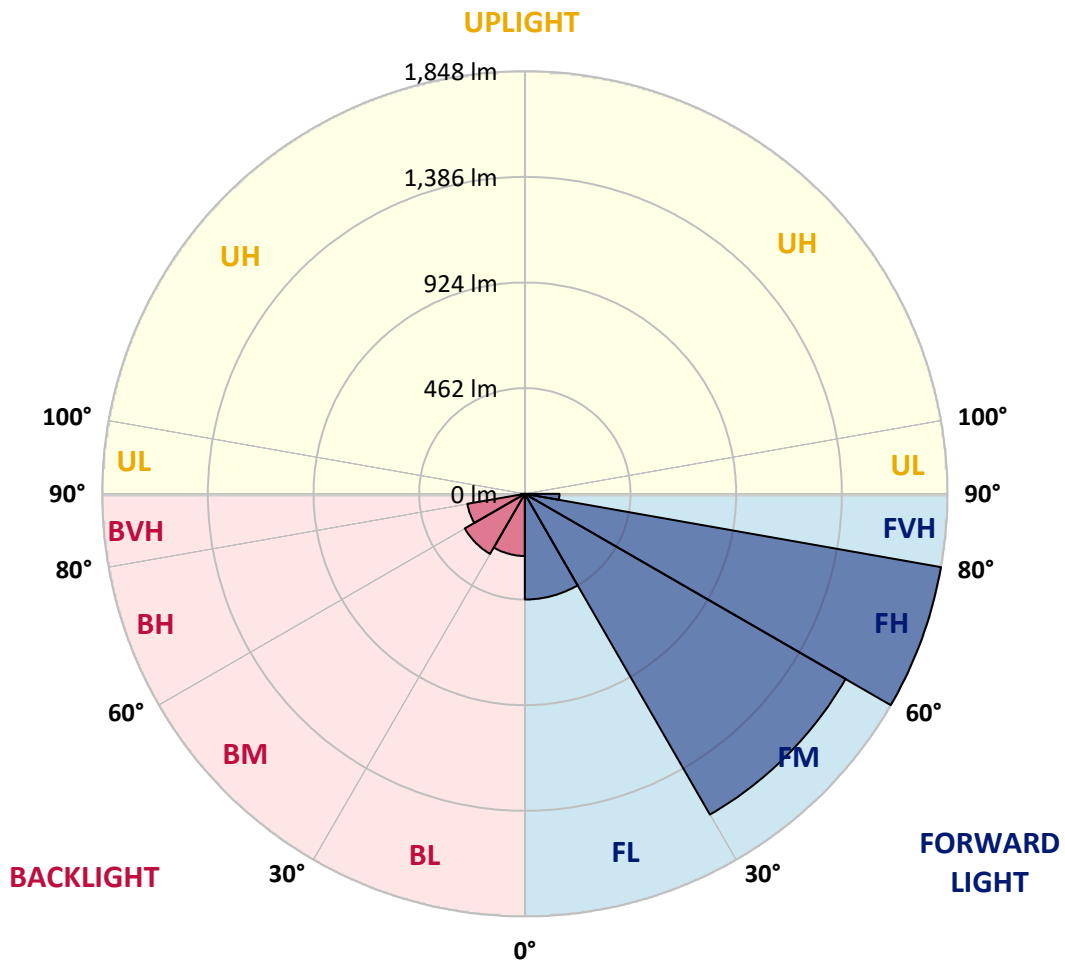


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 461.9 | 9.4 | | | |
| FM (30°-60°) | 1619.3 | 32.9 | | | |
| FH (60°-80°) | 1847.7 | 37.5 | | | G2/5000 |
| FVH (80°-90°) | 151.2 | 3.1 | | | G2/225 |
| BL (0°-30°) | 271.7 | 5.5 | B1/500 | | |
| BM (30°-60°) | 303.3 | 6.2 | B1/1000 | | |
| BH (60°-80°) | 255.0 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.3 | 0.3 | | | G1/100 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 |
| 2.5° | 1342.4 | 1355.2 | 1358.9 | 1358.9 | 1369.9 | 1357.1 | 1375.4 | 1360.7 | 1364.4 | 1369.9 | 1366.2 |
| 5° | 1278.2 | 1300.2 | 1287.4 | 1311.2 | 1302.1 | 1318.6 | 1340.6 | 1340.6 | 1335.1 | 1346.1 | 1336.9 |
| 7.5° | 1215.9 | 1208.5 | 1230.5 | 1230.5 | 1245.2 | 1267.2 | 1285.6 | 1303.9 | 1305.7 | 1309.4 | 1307.6 |
| 10° | 1131.5 | 1140.7 | 1151.7 | 1166.4 | 1184.7 | 1206.7 | 1245.2 | 1259.9 | 1263.5 | 1285.6 | 1280.1 |
| 12.5° | 1061.8 | 1074.7 | 1082.0 | 1111.3 | 1127.8 | 1159.0 | 1203.0 | 1223.2 | 1225.0 | 1256.2 | 1256.2 |
| 15° | 1010.5 | 1017.8 | 1034.3 | 1045.3 | 1082.0 | 1126.0 | 1168.2 | 1186.5 | 1206.7 | 1239.7 | 1230.5 |
| 17.5° | 975.6 | 984.8 | 992.1 | 1006.8 | 1041.6 | 1078.3 | 1144.3 | 1155.3 | 1179.2 | 1226.9 | 1215.9 |
| 20° | 955.5 | 957.3 | 968.3 | 977.5 | 1008.6 | 1043.5 | 1102.2 | 1131.5 | 1162.7 | 1204.9 | 1193.9 |
| 22.5° | 959.1 | 951.8 | 950.0 | 962.8 | 968.3 | 1001.3 | 1072.8 | 1104.0 | 1148.0 | 1197.5 | 1179.2 |
| 25° | 966.5 | 968.3 | 964.6 | 953.6 | 955.5 | 984.8 | 1032.5 | 1072.8 | 1122.3 | 1195.7 | 1159.0 |
| 27.5° | 984.8 | 994.0 | 979.3 | 968.3 | 957.3 | 968.3 | 1017.8 | 1047.1 | 1102.2 | 1204.9 | 1157.2 |
| 30° | 1003.1 | 1012.3 | 1008.6 | 992.1 | 970.1 | 966.5 | 1001.3 | 1038.0 | 1091.2 | 1212.2 | 1157.2 |
| 32.5° | 1030.6 | 1043.5 | 1030.6 | 1036.1 | 1010.5 | 994.0 | 1006.8 | 1039.8 | 1102.2 | 1237.9 | 1159.0 |
| 35° | 1061.8 | 1072.8 | 1076.5 | 1063.7 | 1058.2 | 1027.0 | 1034.3 | 1050.8 | 1113.2 | 1267.2 | 1177.4 |
| 37.5° | 1096.7 | 1109.5 | 1120.5 | 1122.3 | 1104.0 | 1085.7 | 1082.0 | 1091.2 | 1140.7 | 1318.6 | 1197.5 |
| 40° | 1120.5 | 1127.8 | 1149.8 | 1168.2 | 1173.7 | 1148.0 | 1146.2 | 1146.2 | 1190.2 | 1364.4 | 1234.2 |
| 42.5° | 1160.9 | 1157.2 | 1188.4 | 1221.4 | 1230.5 | 1215.9 | 1219.5 | 1234.2 | 1259.9 | 1430.4 | 1292.9 |
| 45° | 1181.0 | 1177.4 | 1214.0 | 1269.1 | 1311.2 | 1303.9 | 1307.6 | 1313.1 | 1336.9 | 1535.0 | 1391.9 |
| 47.5° | 1208.5 | 1212.2 | 1265.4 | 1327.7 | 1371.7 | 1397.4 | 1417.6 | 1415.8 | 1434.1 | 1641.3 | 1502.0 |
| 50° | 1236.0 | 1243.4 | 1307.6 | 1373.6 | 1450.6 | 1494.6 | 1524.0 | 1544.1 | 1562.5 | 1753.2 | 1628.5 |
| 52.5° | 1289.2 | 1296.6 | 1368.1 | 1439.6 | 1538.6 | 1602.8 | 1676.2 | 1674.3 | 1676.2 | 1865.1 | 1755.0 |
| 55° | 1366.2 | 1368.1 | 1410.3 | 1492.8 | 1626.7 | 1744.0 | 1844.9 | 1855.9 | 1824.7 | 2004.4 | 1899.9 |
| 57.5° | 1454.3 | 1461.6 | 1498.3 | 1560.6 | 1696.3 | 1879.7 | 2033.8 | 2055.8 | 1971.4 | 2118.1 | 2031.9 |
| 60° | 1536.8 | 1542.3 | 1599.1 | 1670.7 | 1817.4 | 2050.3 | 2224.5 | 2250.2 | 2158.5 | 2257.5 | 2169.5 |
| 62.5° | 1443.3 | 1470.8 | 1571.6 | 1734.9 | 2030.1 | 2308.9 | 2466.6 | 2483.1 | 2340.0 | 2398.7 | 2316.2 |
| 65° | 1155.3 | 1173.7 | 1318.6 | 1582.6 | 2044.8 | 2778.3 | 2840.7 | 2796.7 | 2589.4 | 2580.3 | 2538.1 |
| 67.5° | 643.7 | 658.4 | 757.4 | 1034.3 | 1722.0 | 2954.4 | 3645.8 | 3323.0 | 2976.4 | 2853.5 | 2838.9 |
| 70° | 508.0 | 511.7 | 524.5 | 581.3 | 955.5 | 2604.1 | 4280.3 | 4295.0 | 3609.1 | 3229.5 | 2903.0 |
| 72.5° | 412.6 | 410.8 | 449.3 | 498.8 | 564.8 | 1562.5 | 4080.4 | 4645.2 | 4093.2 | 3130.4 | 2528.9 |
| 75° | 315.4 | 320.9 | 370.4 | 442.0 | 517.2 | 735.4 | 3044.3 | 3821.8 | 3834.7 | 2917.7 | 2132.8 |
| 77.5° | 240.2 | 242.1 | 297.1 | 390.6 | 506.2 | 519.0 | 1986.1 | 2848.0 | 2860.9 | 2259.3 | 1175.5 |
| 80° | 179.7 | 179.7 | 225.6 | 330.1 | 493.3 | 478.6 | 1223.2 | 1975.1 | 1788.0 | 794.1 | 256.7 |
| 82.5° | 102.7 | 110.0 | 150.4 | 251.2 | 447.5 | 460.3 | 689.5 | 1131.5 | 755.6 | 216.4 | 119.2 |
| 85° | 55.0 | 56.9 | 91.7 | 168.7 | 368.6 | 440.1 | 526.3 | 563.0 | 300.8 | 115.5 | 55.0 |
| 87.5° | 20.2 | 20.2 | 42.2 | 86.2 | 232.9 | 326.4 | 418.1 | 359.4 | 172.4 | 53.2 | 27.5 |
| 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: CCW-SA-2A-730-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 | 1371.7 |
| 2.5° | 1369.9 | 1362.6 | 1357.1 | 1362.6 | 1342.4 | 1333.2 | 1344.2 | 1338.7 | 1327.7 | 1322.2 | 1318.6 |
| 5° | 1342.4 | 1333.2 | 1324.1 | 1318.6 | 1296.6 | 1274.6 | 1263.5 | 1241.5 | 1223.2 | 1228.7 | 1217.7 |
| 7.5° | 1313.1 | 1303.9 | 1276.4 | 1250.7 | 1206.7 | 1162.7 | 1142.5 | 1111.3 | 1100.3 | 1091.2 | 1085.7 |
| 10° | 1276.4 | 1259.9 | 1217.7 | 1166.4 | 1102.2 | 1052.7 | 1001.3 | 964.6 | 926.1 | 909.6 | 915.1 |
| 12.5° | 1230.5 | 1221.4 | 1155.3 | 1076.5 | 986.6 | 904.1 | 843.6 | 784.9 | 733.6 | 706.0 | 698.7 |
| 15° | 1210.4 | 1182.9 | 1087.5 | 983.0 | 869.3 | 766.6 | 676.7 | 574.0 | 513.5 | 484.1 | 484.1 |
| 17.5° | 1188.4 | 1137.0 | 1023.3 | 880.3 | 750.1 | 618.0 | 491.5 | 398.0 | 350.3 | 333.8 | 333.8 |
| 20° | 1153.5 | 1096.7 | 948.1 | 783.1 | 625.4 | 465.8 | 352.1 | 300.8 | 286.1 | 275.1 | 276.9 |
| 22.5° | 1127.8 | 1058.2 | 878.4 | 687.7 | 495.1 | 346.6 | 276.9 | 260.4 | 254.9 | 251.2 | 253.1 |
| 25° | 1098.5 | 1012.3 | 805.1 | 585.0 | 388.8 | 273.2 | 240.2 | 232.9 | 236.6 | 238.4 | 238.4 |
| 27.5° | 1074.7 | 973.8 | 729.9 | 475.0 | 293.4 | 231.1 | 216.4 | 214.6 | 221.9 | 225.6 | 227.4 |
| 30° | 1058.2 | 939.0 | 656.5 | 374.1 | 234.7 | 205.4 | 198.1 | 198.1 | 207.2 | 210.9 | 212.7 |
| 32.5° | 1041.6 | 909.6 | 577.7 | 286.1 | 199.9 | 183.4 | 181.6 | 183.4 | 188.9 | 188.9 | 190.7 |
| 35° | 1047.1 | 882.1 | 502.5 | 231.1 | 179.7 | 168.7 | 168.7 | 168.7 | 170.6 | 172.4 | 172.4 |
| 37.5° | 1058.2 | 874.8 | 421.8 | 194.4 | 165.0 | 157.7 | 157.7 | 155.9 | 157.7 | 155.9 | 157.7 |
| 40° | 1069.2 | 863.8 | 348.4 | 172.4 | 155.9 | 150.4 | 148.5 | 144.9 | 143.0 | 143.0 | 144.9 |
| 42.5° | 1115.0 | 878.4 | 286.1 | 157.7 | 148.5 | 144.9 | 139.4 | 135.7 | 133.9 | 133.9 | 133.9 |
| 45° | 1173.7 | 905.9 | 236.6 | 150.4 | 143.0 | 133.9 | 130.2 | 128.4 | 124.7 | 126.5 | 128.4 |
| 47.5° | 1261.7 | 948.1 | 207.2 | 144.9 | 137.5 | 126.5 | 122.9 | 119.2 | 119.2 | 122.9 | 122.9 |
| 50° | 1377.2 | 1017.8 | 188.9 | 139.4 | 132.0 | 121.0 | 115.5 | 113.7 | 113.7 | 119.2 | 119.2 |
| 52.5° | 1502.0 | 1098.5 | 181.6 | 137.5 | 126.5 | 115.5 | 110.0 | 108.2 | 108.2 | 115.5 | 115.5 |
| 55° | 1626.7 | 1197.5 | 187.1 | 137.5 | 122.9 | 110.0 | 104.5 | 100.9 | 102.7 | 108.2 | 108.2 |
| 57.5° | 1764.2 | 1303.9 | 214.6 | 137.5 | 119.2 | 108.2 | 100.9 | 95.4 | 97.2 | 99.0 | 99.0 |
| 60° | 1914.6 | 1443.3 | 262.2 | 137.5 | 117.4 | 104.5 | 95.4 | 88.0 | 88.0 | 89.9 | 89.9 |
| 62.5° | 2066.8 | 1580.8 | 330.1 | 139.4 | 119.2 | 102.7 | 88.0 | 80.7 | 78.9 | 80.7 | 80.7 |
| 65° | 2266.7 | 1800.9 | 398.0 | 139.4 | 124.7 | 99.0 | 82.5 | 73.4 | 71.5 | 71.5 | 73.4 |
| 67.5° | 2547.3 | 1958.6 | 308.1 | 133.9 | 128.4 | 99.0 | 77.0 | 67.9 | 64.2 | 64.2 | 64.2 |
| 70° | 2398.7 | 1652.3 | 196.2 | 124.7 | 122.9 | 102.7 | 73.4 | 62.4 | 58.7 | 56.9 | 56.9 |
| 72.5° | 2054.0 | 1322.2 | 157.7 | 117.4 | 113.7 | 100.9 | 69.7 | 58.7 | 53.2 | 51.3 | 51.3 |
| 75° | 1646.8 | 1043.5 | 137.5 | 106.4 | 99.0 | 84.4 | 64.2 | 53.2 | 49.5 | 45.8 | 45.8 |
| 77.5° | 806.9 | 436.5 | 104.5 | 93.5 | 84.4 | 64.2 | 56.9 | 49.5 | 44.0 | 40.3 | 40.3 |
| 80° | 201.7 | 152.2 | 77.0 | 73.4 | 62.4 | 49.5 | 45.8 | 42.2 | 38.5 | 34.8 | 34.8 |
| 82.5° | 108.2 | 89.9 | 55.0 | 49.5 | 42.2 | 34.8 | 34.8 | 33.0 | 31.2 | 27.5 | 25.7 |
| 85° | 55.0 | 53.2 | 36.7 | 33.0 | 27.5 | 22.0 | 23.8 | 23.8 | 22.0 | 16.5 | 16.5 |
| 87.5° | 29.3 | 29.3 | 18.3 | 14.7 | 12.8 | 11.0 | 11.0 | 11.0 | 9.2 | 7.3 | 7.3 |
| 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)