

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: P676190

Luminaire Tested: **CCW-SA-1F-835-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676190
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-835-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
T1 distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

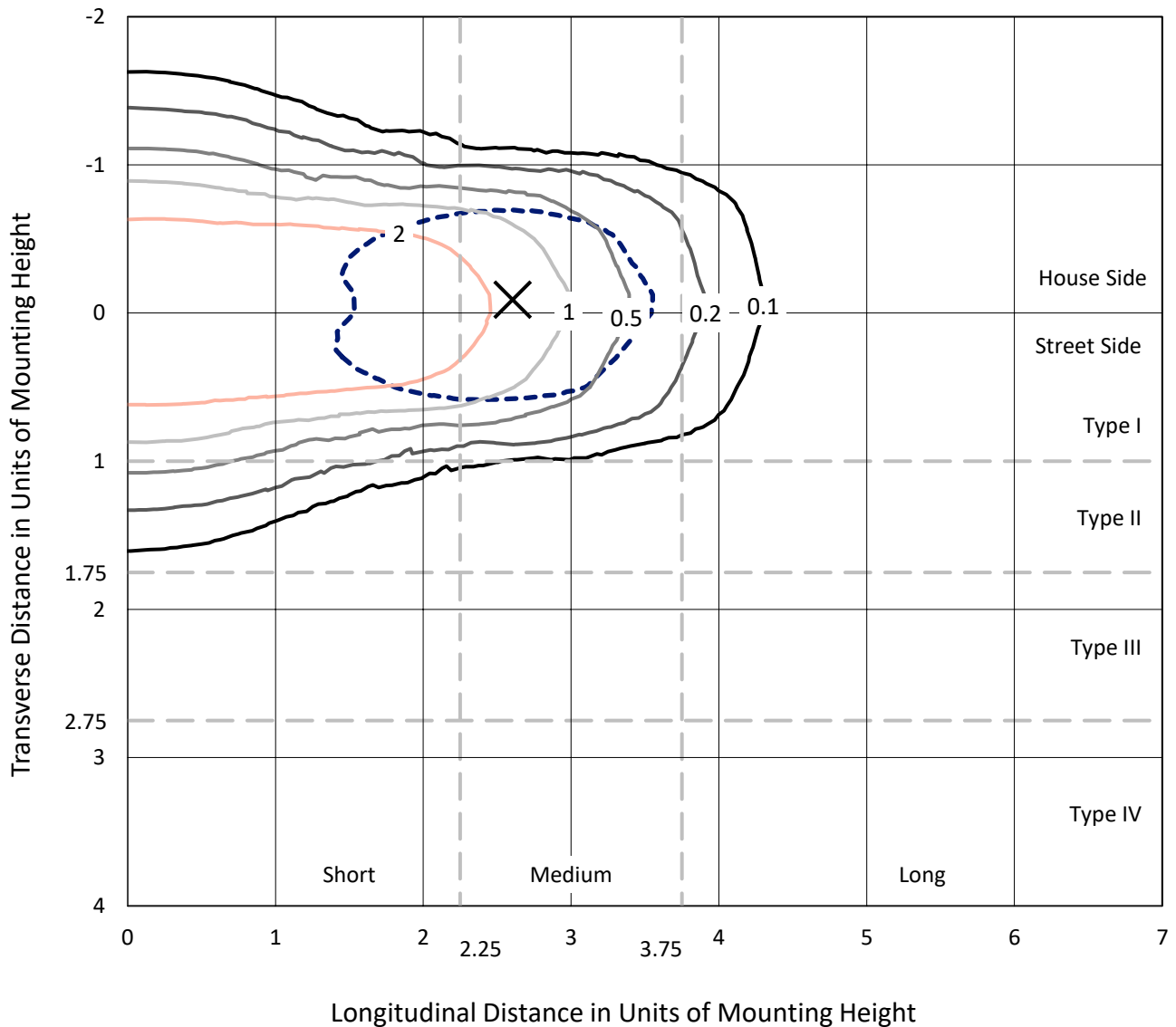
Lumens per Lamp: N/A
Luminaire Lumens: 6016.1 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 67
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

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Iso-Footcandle Lines of Horizontal Illumination

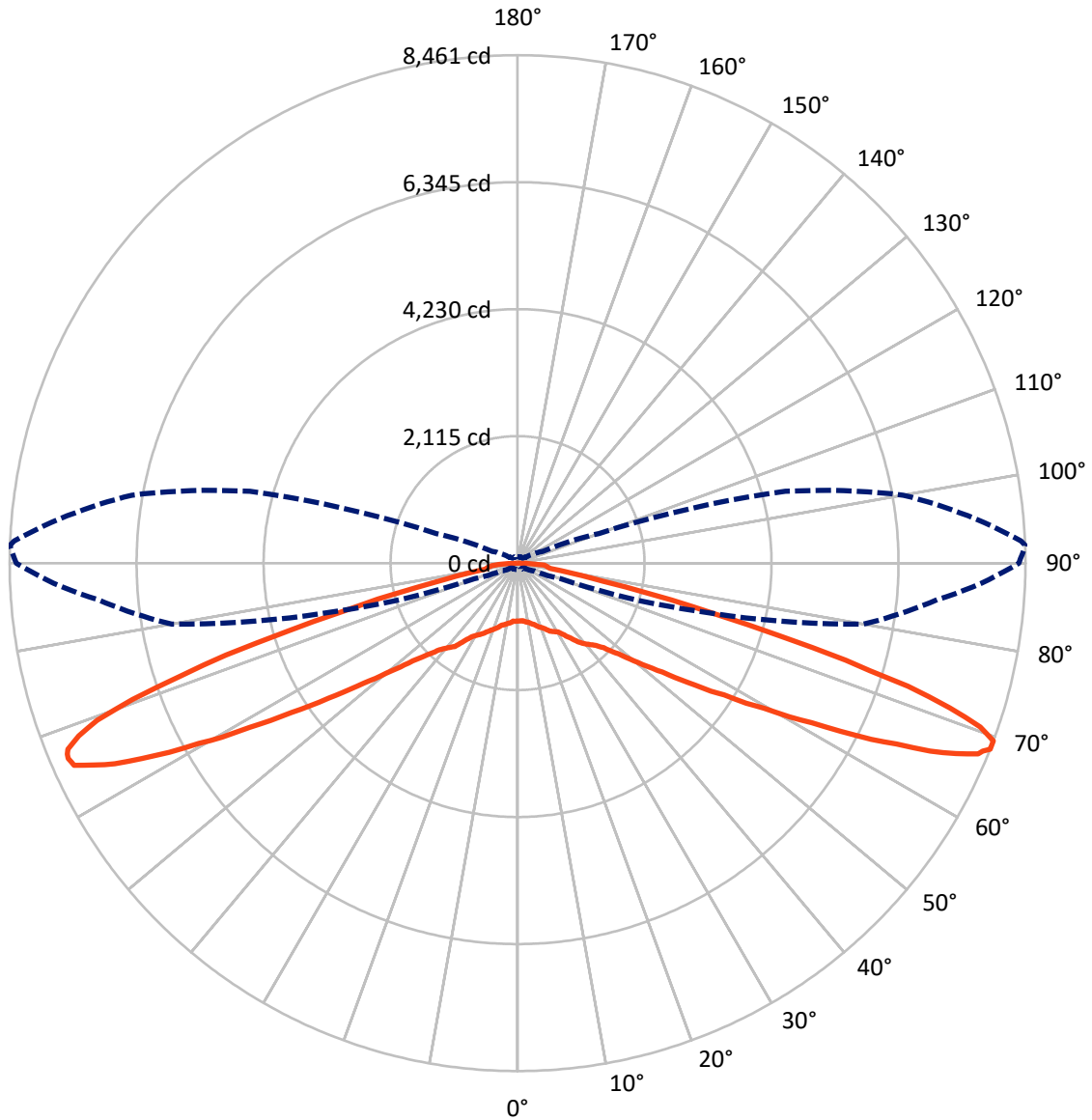
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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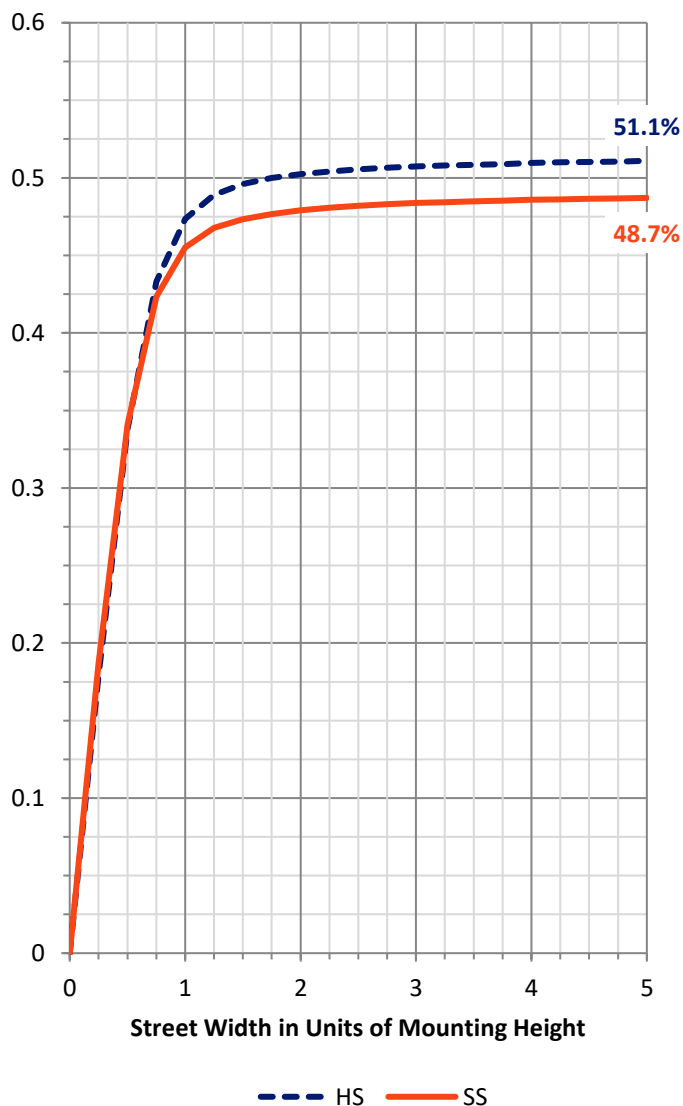
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3098.2 | 0.0 | 3098.2 |
| | % Fixture | 51.5 | 0.0 | 51.5 |
| Street Side | Lumens | 2917.9 | 0.0 | 2917.9 |
| | % Fixture | 48.5 | 0.0 | 48.5 |
| Total | Lumens | 6016.1 | 0.0 | 6016.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.4 | 1.6 |
| 10°-20° | 312.1 | 5.2 |
| 20°-30° | 532.6 | 8.9 |
| 30°-40° | 743.7 | 12.4 |
| 40°-50° | 946.0 | 15.7 |
| 50°-60° | 1196.1 | 19.9 |
| 60°-70° | 1475.1 | 24.5 |
| 70°-80° | 644.4 | 10.7 |
| 80°-90° | 69.9 | 1.2 |
| 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° | 6016.1 | 100.0 |
| 0°-180° | 6016.1 | 100.0 |



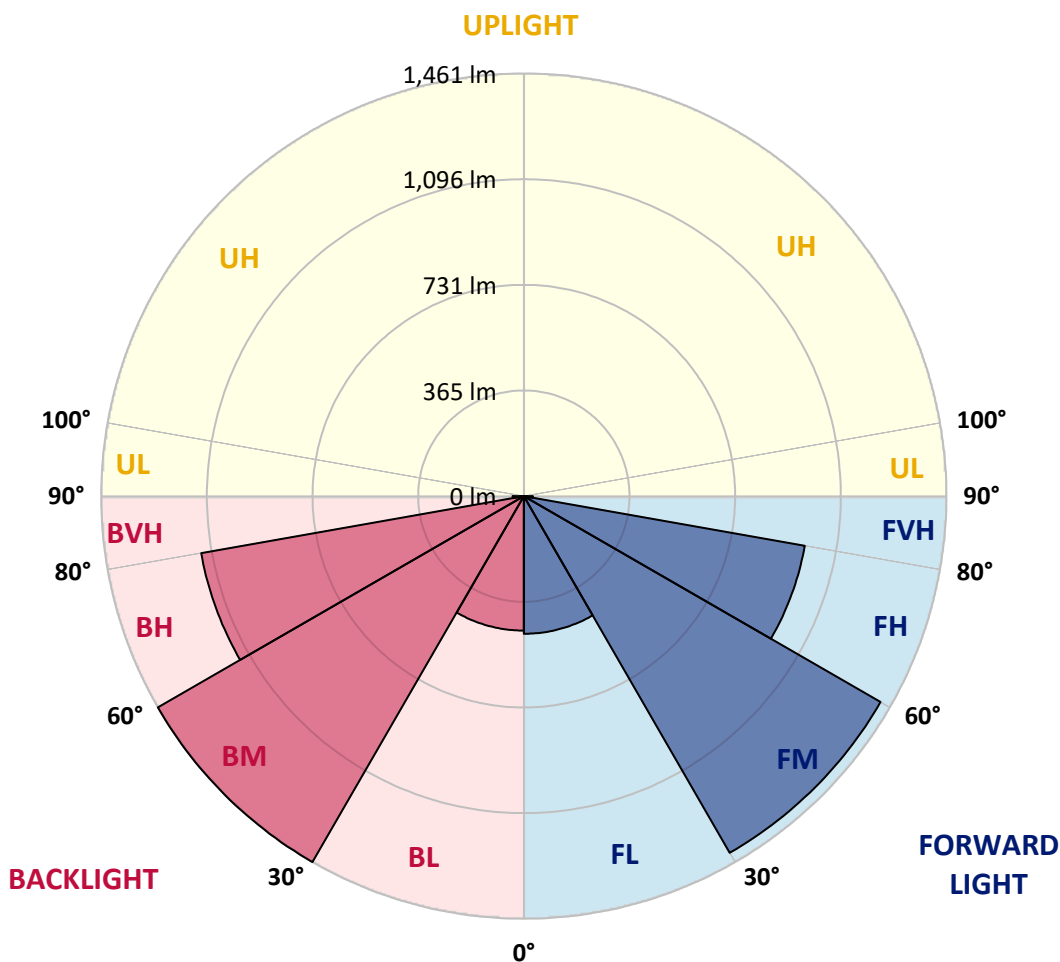
REPORT NUMBER: P676190
 CATALOG NUMBER: CCW-SA-1F-835-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 476.1 | 7.9 | | | |
| FM (30°-60°) | 1424.3 | 23.7 | | | |
| FH (60°-80°) | 986.5 | 16.4 | | | G1/1800 |
| FVH (80°-90°) | 31.0 | 0.5 | | | G1/100 |
| BL (0°-30°) | 464.9 | 7.7 | B1/500 | | |
| BM (30°-60°) | 1461.4 | 24.3 | B2/2500 | | |
| BH (60°-80°) | 1132.9 | 18.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 38.9 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 80° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 |
| 2.5° | 982.3 | 981.2 | 984.6 | 986.9 | 976.7 | 980.1 | 977.8 | 975.6 | 967.7 | 964.3 | 957.5 |
| 5° | 1009.4 | 1012.8 | 1024.1 | 1014.0 | 1018.5 | 1012.8 | 994.8 | 1000.4 | 990.3 | 988.0 | 981.2 |
| 7.5° | 1056.9 | 1050.1 | 1065.9 | 1054.6 | 1058.0 | 1046.7 | 1038.8 | 1028.6 | 1026.4 | 1010.6 | 1011.7 |
| 10° | 1067.0 | 1080.6 | 1087.4 | 1085.1 | 1087.4 | 1093.0 | 1078.3 | 1062.5 | 1041.1 | 1036.5 | 1020.7 |
| 12.5° | 1060.3 | 1072.7 | 1090.7 | 1105.4 | 1115.6 | 1117.8 | 1112.2 | 1108.8 | 1099.8 | 1073.8 | 1072.7 |
| 15° | 1053.5 | 1044.4 | 1055.7 | 1106.6 | 1140.4 | 1163.0 | 1170.9 | 1151.7 | 1154.0 | 1120.1 | 1106.6 |
| 17.5° | 1008.3 | 994.8 | 1038.8 | 1088.5 | 1130.3 | 1179.9 | 1218.3 | 1212.7 | 1212.7 | 1185.6 | 1166.4 |
| 20° | 948.5 | 971.1 | 993.6 | 1056.9 | 1133.7 | 1208.2 | 1281.6 | 1278.2 | 1264.6 | 1256.7 | 1214.9 |
| 22.5° | 897.7 | 907.8 | 949.6 | 1016.2 | 1112.2 | 1216.1 | 1303.0 | 1365.1 | 1333.5 | 1301.9 | 1277.1 |
| 25° | 862.7 | 853.6 | 906.7 | 975.6 | 1091.9 | 1202.5 | 1343.7 | 1408.0 | 1425.0 | 1401.3 | 1353.8 |
| 27.5° | 813.0 | 813.0 | 854.8 | 920.2 | 1026.4 | 1195.8 | 1383.2 | 1481.4 | 1506.3 | 1471.3 | 1402.4 |
| 30° | 756.5 | 763.3 | 799.4 | 873.9 | 977.8 | 1146.1 | 1399.0 | 1566.1 | 1586.4 | 1555.9 | 1484.8 |
| 32.5° | 712.5 | 712.5 | 753.1 | 832.2 | 944.0 | 1123.5 | 1388.8 | 1649.7 | 1688.1 | 1665.5 | 1592.1 |
| 35° | 665.1 | 661.7 | 691.0 | 778.0 | 889.8 | 1079.5 | 1385.4 | 1716.3 | 1802.1 | 1803.2 | 1726.4 |
| 37.5° | 597.3 | 610.9 | 648.1 | 717.0 | 846.9 | 1036.5 | 1375.3 | 1796.5 | 1950.0 | 1976.0 | 1922.9 |
| 40° | 552.1 | 557.8 | 591.7 | 667.3 | 780.2 | 985.7 | 1360.6 | 1861.9 | 2048.2 | 2137.4 | 2064.1 |
| 42.5° | 486.7 | 494.6 | 520.5 | 614.2 | 715.9 | 913.5 | 1296.2 | 1908.2 | 2188.3 | 2289.9 | 2227.8 |
| 45° | 417.8 | 422.3 | 460.7 | 537.5 | 647.0 | 827.7 | 1227.4 | 1982.8 | 2323.8 | 2531.5 | 2495.4 |
| 47.5° | 335.4 | 337.6 | 370.4 | 450.5 | 564.6 | 741.8 | 1121.2 | 1979.4 | 2433.3 | 2773.2 | 2874.8 |
| 50° | 262.0 | 267.6 | 292.4 | 357.9 | 465.2 | 636.8 | 998.2 | 1952.3 | 2571.0 | 3048.7 | 3248.5 |
| 52.5° | 208.9 | 210.0 | 225.8 | 277.8 | 359.1 | 531.8 | 866.0 | 1866.5 | 2700.9 | 3318.5 | 3706.9 |
| 55° | 172.8 | 172.8 | 181.8 | 213.4 | 275.5 | 404.2 | 711.4 | 1724.2 | 2716.7 | 3616.6 | 4207.2 |
| 56° | 166.0 | 163.7 | 171.6 | 198.7 | 248.4 | 364.7 | 639.1 | 1628.2 | 2739.3 | 3754.4 | 4457.8 |
| 57° | 156.9 | 158.1 | 162.6 | 181.8 | 223.6 | 322.9 | 558.9 | 1534.5 | 2723.5 | 3867.3 | 4643.0 |
| 58° | 152.4 | 150.2 | 159.2 | 171.6 | 197.6 | 286.8 | 503.6 | 1423.8 | 2698.6 | 3959.9 | 4912.9 |
| 59° | 145.7 | 144.5 | 150.2 | 161.5 | 184.0 | 255.2 | 435.8 | 1304.1 | 2650.1 | 4079.6 | 5113.8 |
| 60° | 143.4 | 142.3 | 144.5 | 153.6 | 169.4 | 223.6 | 383.9 | 1164.1 | 2520.2 | 4202.6 | 5363.4 |
| 61° | 136.6 | 137.8 | 142.3 | 147.9 | 160.3 | 201.0 | 345.5 | 1020.7 | 2435.5 | 4306.5 | 5638.9 |
| 62° | 137.8 | 135.5 | 137.8 | 142.3 | 151.3 | 185.2 | 302.6 | 879.6 | 2284.2 | 4423.9 | 5845.5 |
| 63° | 131.0 | 129.9 | 133.2 | 138.9 | 143.4 | 167.1 | 264.2 | 759.9 | 2112.6 | 4451.0 | 6020.5 |
| 64° | 128.7 | 127.6 | 128.7 | 136.6 | 137.8 | 156.9 | 233.7 | 649.3 | 1864.2 | 4497.3 | 6245.2 |
| 65° | 123.1 | 123.1 | 125.3 | 128.7 | 133.2 | 147.9 | 208.9 | 563.4 | 1616.9 | 4375.4 | 6314.1 |
| 66° | 118.6 | 119.7 | 119.7 | 125.3 | 128.7 | 137.8 | 192.0 | 478.8 | 1379.8 | 4181.2 | 6380.7 |
| 67° | 115.2 | 115.2 | 116.3 | 120.8 | 124.2 | 129.9 | 172.8 | 414.4 | 1164.1 | 3949.7 | 6278.0 |
| 67.5° | 112.9 | 114.0 | 114.0 | 118.6 | 121.9 | 129.9 | 164.9 | 392.9 | 1041.1 | 3695.7 | 6201.2 |
| 68° | 109.5 | 110.7 | 110.7 | 115.2 | 118.6 | 125.3 | 159.2 | 359.1 | 959.8 | 3530.8 | 6058.9 |
| 69° | 107.3 | 106.1 | 106.1 | 110.7 | 115.2 | 119.7 | 147.9 | 313.9 | 763.3 | 3070.1 | 5851.2 |
| 70° | 100.5 | 100.5 | 102.8 | 106.1 | 109.5 | 114.0 | 136.6 | 276.6 | 645.9 | 2541.7 | 5316.0 |
| 71° | 97.1 | 96.0 | 97.1 | 100.5 | 103.9 | 109.5 | 125.3 | 245.0 | 528.4 | 2110.4 | 4789.8 |
| 72° | 90.3 | 92.6 | 92.6 | 96.0 | 99.4 | 102.8 | 117.4 | 213.4 | 443.7 | 1686.9 | 4210.5 |
| 72.5° | 89.2 | 89.2 | 90.3 | 93.7 | 96.0 | 101.6 | 112.9 | 204.4 | 405.4 | 1487.1 | 3967.8 |
| 73° | 85.8 | 85.8 | 86.9 | 90.3 | 92.6 | 98.2 | 109.5 | 184.0 | 369.2 | 1323.3 | 3513.9 |
| 74° | 82.4 | 81.3 | 81.3 | 85.8 | 86.9 | 92.6 | 102.8 | 162.6 | 309.4 | 997.0 | 2820.6 |
| 75° | 76.8 | 76.8 | 77.9 | 80.2 | 81.3 | 85.8 | 94.8 | 144.5 | 260.8 | 773.5 | 2206.3 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 80° |
|-------|------|------|------|------|------|------|------|-------|-------|-------|--------|
| 77.5° | 63.2 | 64.4 | 65.5 | 67.7 | 67.7 | 71.1 | 77.9 | 100.5 | 159.2 | 391.8 | 1012.8 |
| 80° | 46.3 | 48.6 | 51.9 | 55.3 | 54.2 | 54.2 | 61.0 | 72.3 | 94.8 | 176.1 | 388.4 |
| 82.5° | 37.3 | 39.5 | 36.1 | 40.6 | 40.6 | 38.4 | 44.0 | 53.1 | 64.4 | 86.9 | 138.9 |
| 85° | 24.8 | 26.0 | 21.5 | 24.8 | 23.7 | 23.7 | 29.4 | 31.6 | 39.5 | 48.6 | 68.9 |
| 87.5° | 11.3 | 11.3 | 9.0 | 10.2 | 10.2 | 10.2 | 14.7 | 11.3 | 16.9 | 23.7 | 40.6 |
| 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: CCW-SA-1F-835-U-T1

CANDELA DISTRIBUTION (continued):

| | 85° | 87.5° | 90° | 92° | 92.5° | 95° | 100° | 105° | 110° | 115° | 125° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 |
| 2.5° | 964.3 | 968.8 | 968.8 | 964.3 | 960.9 | 964.3 | 962.0 | 956.4 | 962.0 | 964.3 | 965.4 |
| 5° | 977.8 | 968.8 | 973.3 | 963.2 | 969.9 | 968.8 | 966.5 | 972.2 | 973.3 | 973.3 | 981.2 |
| 7.5° | 992.5 | 1003.8 | 989.1 | 990.3 | 993.6 | 980.1 | 984.6 | 986.9 | 982.3 | 991.4 | 998.2 |
| 10° | 1018.5 | 1023.0 | 1018.5 | 1001.5 | 1012.8 | 1003.8 | 1000.4 | 1010.6 | 1008.3 | 1010.6 | 1020.7 |
| 12.5° | 1042.2 | 1050.1 | 1037.7 | 1036.5 | 1030.9 | 1023.0 | 1027.5 | 1026.4 | 1042.2 | 1044.4 | 1056.9 |
| 15° | 1090.7 | 1070.4 | 1065.9 | 1064.8 | 1062.5 | 1059.1 | 1061.4 | 1062.5 | 1082.8 | 1086.2 | 1115.6 |
| 17.5° | 1132.5 | 1129.1 | 1104.3 | 1113.3 | 1113.3 | 1099.8 | 1094.1 | 1113.3 | 1129.1 | 1146.1 | 1166.4 |
| 20° | 1175.4 | 1172.0 | 1144.9 | 1146.1 | 1135.9 | 1148.3 | 1141.6 | 1159.6 | 1186.7 | 1192.4 | 1210.4 |
| 22.5° | 1226.2 | 1211.6 | 1192.4 | 1194.6 | 1198.0 | 1189.0 | 1184.5 | 1209.3 | 1236.4 | 1252.2 | 1253.3 |
| 25° | 1306.4 | 1269.1 | 1253.3 | 1255.6 | 1251.1 | 1244.3 | 1247.7 | 1279.3 | 1292.9 | 1326.7 | 1320.0 |
| 27.5° | 1349.3 | 1327.9 | 1316.6 | 1290.6 | 1291.7 | 1281.6 | 1295.1 | 1342.5 | 1369.6 | 1395.6 | 1343.7 |
| 30° | 1401.3 | 1387.7 | 1338.0 | 1329.0 | 1327.9 | 1323.3 | 1348.2 | 1409.2 | 1449.8 | 1464.5 | 1390.0 |
| 32.5° | 1502.9 | 1448.7 | 1436.3 | 1428.4 | 1410.3 | 1415.9 | 1428.4 | 1508.5 | 1572.9 | 1569.5 | 1432.9 |
| 35° | 1619.2 | 1581.9 | 1546.9 | 1540.1 | 1537.9 | 1522.1 | 1543.5 | 1637.2 | 1686.9 | 1672.2 | 1448.7 |
| 37.5° | 1805.5 | 1749.0 | 1701.6 | 1675.6 | 1671.1 | 1659.8 | 1710.6 | 1785.2 | 1849.5 | 1791.9 | 1461.1 |
| 40° | 1896.9 | 1833.7 | 1789.7 | 1773.9 | 1777.3 | 1793.1 | 1842.7 | 1956.8 | 1985.0 | 1878.9 | 1471.3 |
| 42.5° | 2027.9 | 1959.0 | 1872.1 | 1864.2 | 1854.0 | 1861.9 | 1957.9 | 2111.5 | 2135.2 | 1996.3 | 1432.9 |
| 45° | 2260.5 | 2156.6 | 2056.2 | 2011.0 | 2013.2 | 2034.7 | 2183.7 | 2352.0 | 2307.9 | 2077.6 | 1371.9 |
| 47.5° | 2554.1 | 2401.7 | 2320.4 | 2259.4 | 2288.8 | 2265.0 | 2502.2 | 2636.5 | 2486.4 | 2180.4 | 1297.4 |
| 50° | 2995.6 | 2782.2 | 2671.5 | 2598.1 | 2610.6 | 2630.9 | 2871.4 | 2985.4 | 2684.0 | 2230.0 | 1183.3 |
| 52.5° | 3552.3 | 3277.9 | 3115.3 | 3017.0 | 3026.1 | 3070.1 | 3380.6 | 3345.6 | 2909.8 | 2271.8 | 1030.9 |
| 55° | 4218.4 | 3936.2 | 3621.1 | 3580.5 | 3570.3 | 3675.3 | 4017.5 | 3722.8 | 3113.0 | 2205.2 | 872.8 |
| 56° | 4570.7 | 4270.4 | 3942.9 | 3859.4 | 3834.5 | 3907.9 | 4309.9 | 3911.3 | 3183.0 | 2130.7 | 797.2 |
| 57° | 4870.0 | 4583.2 | 4224.1 | 4081.8 | 4113.4 | 4251.2 | 4600.1 | 4088.6 | 3247.4 | 2053.9 | 726.0 |
| 58° | 5281.0 | 4953.5 | 4574.1 | 4465.7 | 4437.5 | 4547.0 | 4912.9 | 4267.0 | 3268.8 | 1974.9 | 660.5 |
| 59° | 5690.8 | 5297.9 | 4955.8 | 4758.2 | 4766.1 | 4965.9 | 5221.1 | 4479.3 | 3301.6 | 1874.4 | 577.0 |
| 60° | 6002.5 | 5804.9 | 5347.6 | 5199.7 | 5179.3 | 5468.4 | 5528.2 | 4621.5 | 3336.6 | 1738.9 | 518.3 |
| 61° | 6444.0 | 6186.5 | 5760.8 | 5570.0 | 5625.3 | 5856.8 | 5860.2 | 4799.9 | 3284.6 | 1567.2 | 446.0 |
| 62° | 6761.3 | 6693.5 | 6246.4 | 6064.6 | 6047.6 | 6354.8 | 6205.7 | 4956.9 | 3239.5 | 1404.6 | 394.1 |
| 63° | 7132.7 | 7132.7 | 6725.1 | 6582.8 | 6590.8 | 6833.5 | 6355.9 | 5113.8 | 3187.5 | 1225.1 | 346.6 |
| 64° | 7325.8 | 7568.6 | 7192.6 | 6992.7 | 7044.7 | 7254.7 | 6623.5 | 5216.6 | 3027.2 | 1043.3 | 304.9 |
| 65° | 7492.9 | 7857.6 | 7648.8 | 7556.2 | 7477.1 | 7601.3 | 6855.0 | 5312.6 | 2782.2 | 887.5 | 271.0 |
| 66° | 7634.1 | 8129.8 | 8060.9 | 7961.5 | 7953.6 | 7925.4 | 6900.1 | 5309.2 | 2529.3 | 749.7 | 237.1 |
| 67° | 7562.9 | 8135.4 | 8260.7 | 8302.5 | 8290.1 | 7992.0 | 6821.1 | 5188.4 | 2205.2 | 633.4 | 211.1 |
| 67.5° | 7498.6 | 8089.1 | 8380.4 | 8356.7 | 8408.7 | 8048.5 | 6834.6 | 5040.5 | 1974.9 | 573.6 | 198.7 |
| 68° | 7442.1 | 8027.0 | 8429.0 | 8459.5 | 8433.5 | 8055.2 | 6760.1 | 4923.0 | 1817.9 | 538.6 | 187.4 |
| 69° | 7014.2 | 7732.3 | 8351.1 | 8460.6 | 8394.0 | 7796.7 | 6523.0 | 4617.0 | 1444.2 | 459.6 | 172.8 |
| 70° | 6585.1 | 7350.7 | 7972.8 | 8173.8 | 8091.4 | 7296.5 | 6223.8 | 4130.4 | 1191.2 | 392.9 | 155.8 |
| 71° | 5991.2 | 6641.6 | 7469.2 | 7590.0 | 7490.7 | 6727.4 | 5605.0 | 3616.6 | 927.0 | 333.1 | 138.9 |
| 72° | 5185.0 | 5737.1 | 6527.5 | 6820.0 | 6673.2 | 5908.8 | 4979.5 | 2988.8 | 750.9 | 280.0 | 126.5 |
| 72.5° | 4785.3 | 5351.0 | 6113.1 | 6136.8 | 6165.1 | 5553.1 | 4714.1 | 2625.2 | 654.9 | 259.7 | 123.1 |
| 73° | 4405.9 | 4960.3 | 5619.7 | 5703.3 | 5583.6 | 4953.5 | 4317.8 | 2347.5 | 598.4 | 237.1 | 118.6 |
| 74° | 3570.3 | 3886.5 | 4433.0 | 4514.3 | 4409.3 | 4038.9 | 3528.5 | 1799.8 | 476.5 | 204.4 | 108.4 |
| 75° | 2809.3 | 2983.2 | 3477.7 | 3428.0 | 3271.1 | 3141.2 | 2735.9 | 1375.3 | 386.2 | 179.5 | 100.5 |



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CANDELA DISTRIBUTION (continued):

| | 85° | 87.5° | 90° | 92° | 92.5° | 95° | 100° | 105° | 110° | 115° | 125° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| 77.5° | 1262.4 | 1367.4 | 1449.8 | 1449.8 | 1458.8 | 1392.2 | 1261.2 | 631.2 | 238.2 | 129.9 | 82.4 |
| 80° | 481.0 | 538.6 | 556.7 | 557.8 | 565.7 | 586.0 | 545.4 | 310.5 | 141.1 | 92.6 | 66.6 |
| 82.5° | 348.9 | 487.8 | 525.0 | 497.9 | 500.2 | 451.7 | 208.9 | 137.8 | 89.2 | 64.4 | 48.6 |
| 85° | 316.2 | 424.6 | 449.4 | 446.0 | 447.1 | 417.8 | 123.1 | 67.7 | 51.9 | 40.6 | 33.9 |
| 87.5° | 153.6 | 150.2 | 159.2 | 179.5 | 175.0 | 227.0 | 103.9 | 33.9 | 22.6 | 16.9 | 16.9 |
| 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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CANDELA DISTRIBUTION (continued):

| | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 | 962.0 |
| 2.5° | 956.4 | 955.2 | 971.1 | 955.2 | 964.3 | 957.5 |
| 5° | 967.7 | 972.2 | 975.6 | 982.3 | 966.5 | 982.3 |
| 7.5° | 1001.5 | 1006.1 | 1007.2 | 1012.8 | 1006.1 | 1004.9 |
| 10° | 1027.5 | 1038.8 | 1045.6 | 1023.0 | 1036.5 | 1035.4 |
| 12.5° | 1078.3 | 1067.0 | 1065.9 | 1061.4 | 1049.0 | 1044.4 |
| 15° | 1114.5 | 1097.5 | 1087.4 | 1069.3 | 1054.6 | 1049.0 |
| 17.5° | 1165.3 | 1132.5 | 1090.7 | 1053.5 | 1027.5 | 1007.2 |
| 20° | 1196.9 | 1138.2 | 1054.6 | 1010.6 | 971.1 | 980.1 |
| 22.5° | 1217.2 | 1132.5 | 1021.9 | 965.4 | 925.9 | 937.2 |
| 25° | 1224.0 | 1104.3 | 999.3 | 929.3 | 890.9 | 883.0 |
| 27.5° | 1204.8 | 1071.5 | 955.2 | 876.2 | 842.3 | 849.1 |
| 30° | 1195.8 | 1024.1 | 914.6 | 836.7 | 791.5 | 798.3 |
| 32.5° | 1172.0 | 975.6 | 860.4 | 781.4 | 748.6 | 737.3 |
| 35° | 1138.2 | 934.9 | 808.5 | 733.9 | 694.4 | 685.4 |
| 37.5° | 1096.4 | 884.1 | 763.3 | 673.0 | 638.0 | 631.2 |
| 40° | 1034.3 | 823.1 | 697.8 | 619.9 | 579.2 | 578.1 |
| 42.5° | 980.1 | 764.4 | 636.8 | 556.7 | 516.0 | 518.3 |
| 45° | 911.2 | 685.4 | 566.8 | 497.9 | 457.3 | 459.6 |
| 47.5° | 823.1 | 612.0 | 500.2 | 423.4 | 389.6 | 387.3 |
| 50° | 719.3 | 528.4 | 418.9 | 353.4 | 325.2 | 319.5 |
| 52.5° | 619.9 | 443.7 | 343.3 | 284.5 | 260.8 | 258.6 |
| 55° | 494.6 | 345.5 | 267.6 | 223.6 | 205.5 | 206.6 |
| 56° | 449.4 | 318.4 | 243.9 | 204.4 | 190.8 | 190.8 |
| 57° | 406.5 | 282.3 | 221.3 | 188.6 | 176.1 | 176.1 |
| 58° | 359.1 | 248.4 | 201.0 | 170.5 | 164.9 | 160.3 |
| 59° | 326.3 | 225.8 | 181.8 | 161.5 | 152.4 | 151.3 |
| 60° | 287.9 | 203.2 | 169.4 | 151.3 | 144.5 | 143.4 |
| 61° | 255.2 | 182.9 | 155.8 | 141.1 | 138.9 | 138.9 |
| 62° | 228.1 | 169.4 | 144.5 | 136.6 | 135.5 | 132.1 |
| 63° | 204.4 | 155.8 | 138.9 | 129.9 | 126.5 | 129.9 |
| 64° | 182.9 | 143.4 | 134.4 | 127.6 | 123.1 | 125.3 |
| 65° | 166.0 | 137.8 | 128.7 | 124.2 | 119.7 | 120.8 |
| 66° | 154.7 | 128.7 | 124.2 | 118.6 | 116.3 | 117.4 |
| 67° | 140.0 | 124.2 | 119.7 | 114.0 | 112.9 | 114.0 |
| 67.5° | 135.5 | 120.8 | 117.4 | 111.8 | 110.7 | 111.8 |
| 68° | 132.1 | 118.6 | 116.3 | 110.7 | 109.5 | 108.4 |
| 69° | 123.1 | 114.0 | 110.7 | 108.4 | 106.1 | 105.0 |
| 70° | 115.2 | 109.5 | 107.3 | 103.9 | 101.6 | 100.5 |
| 71° | 110.7 | 103.9 | 102.8 | 99.4 | 97.1 | 96.0 |
| 72° | 105.0 | 100.5 | 98.2 | 93.7 | 92.6 | 93.7 |
| 72.5° | 103.9 | 98.2 | 97.1 | 92.6 | 91.5 | 91.5 |
| 73° | 100.5 | 93.7 | 94.8 | 90.3 | 88.1 | 90.3 |
| 74° | 93.7 | 91.5 | 89.2 | 85.8 | 84.7 | 84.7 |
| 75° | 88.1 | 85.8 | 83.6 | 81.3 | 81.3 | 81.3 |



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CANDELA DISTRIBUTION (continued):

| | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|
| 77.5° | 74.5 | 73.4 | 74.5 | 70.0 | 68.9 | 67.7 |
| 80° | 59.8 | 59.8 | 61.0 | 57.6 | 55.3 | 54.2 |
| 82.5° | 45.2 | 46.3 | 48.6 | 45.2 | 42.9 | 40.6 |
| 85° | 29.4 | 30.5 | 30.5 | 27.1 | 31.6 | 29.4 |
| 87.5° | 14.7 | 15.8 | 14.7 | 13.5 | 15.8 | 15.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)