

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: P671297

Luminaire Tested: **CCP-SA-2B-830-U-SL2**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671297  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-830-U-SL2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ SL2  
distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5431.1 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

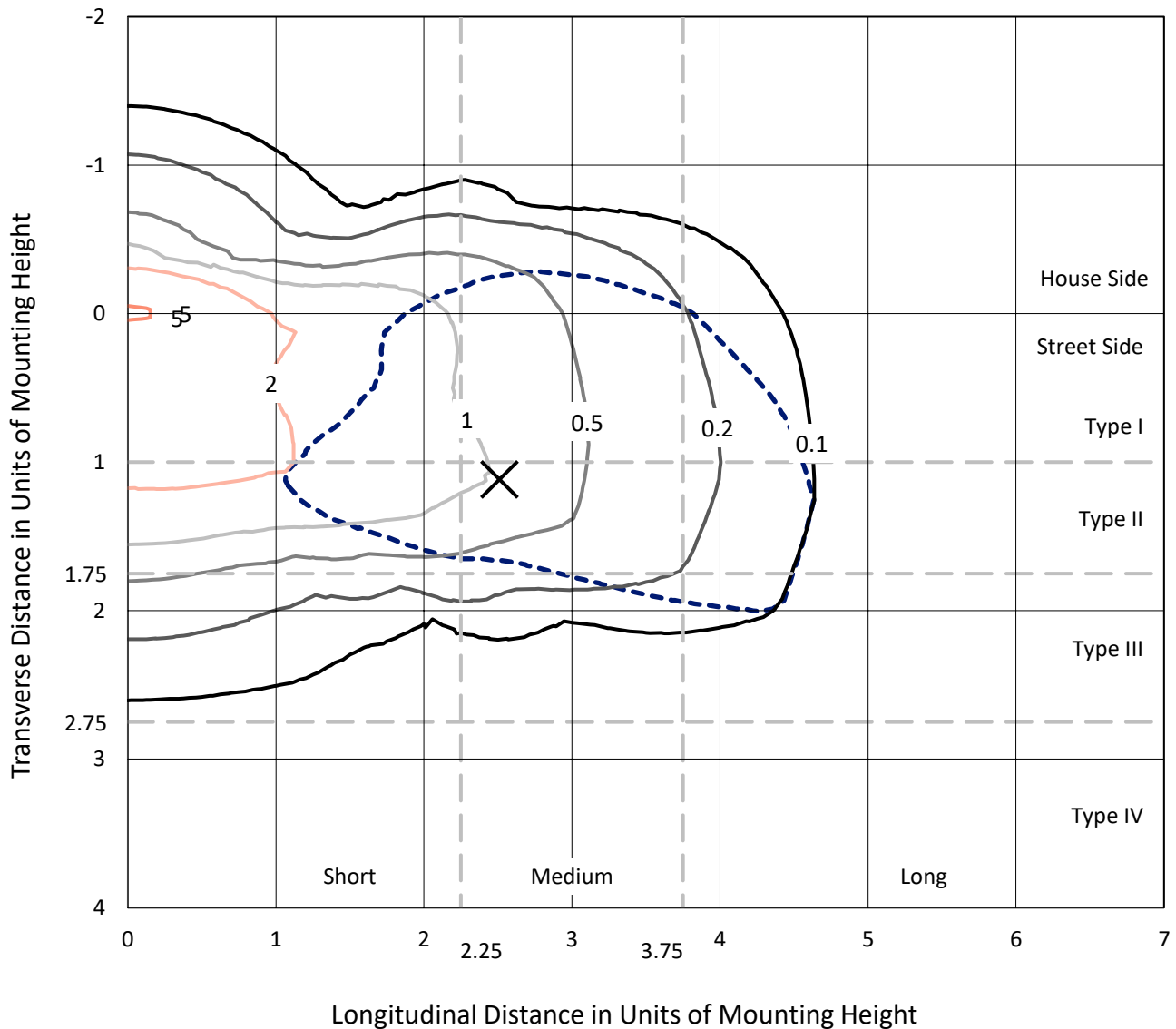
Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

REPORT NUMBER: P671297

CATALOG NUMBER: CCP-SA-2B-830-U-SL2

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

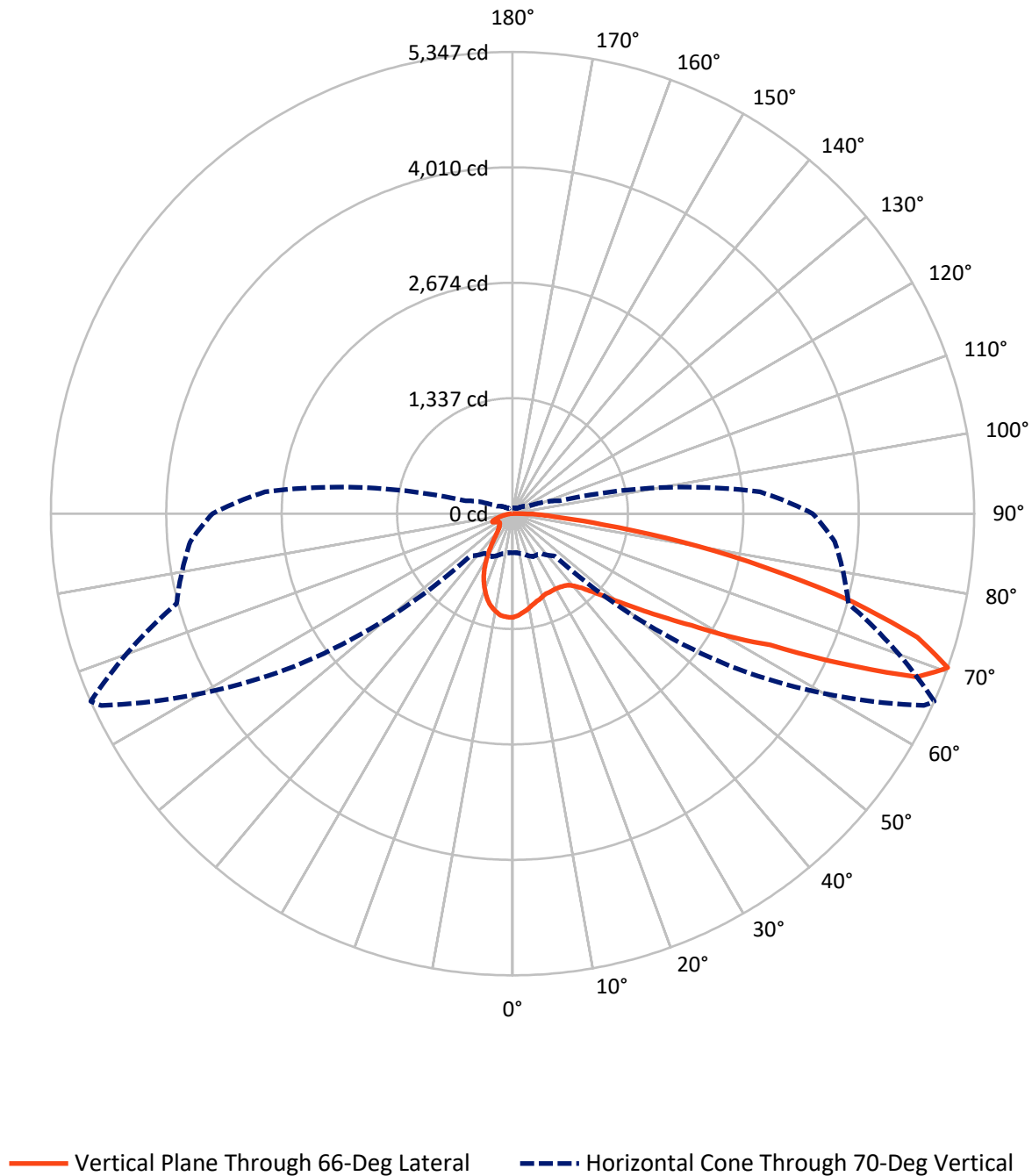


Based on 15 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P671297

CATALOG NUMBER: CCP-SA-2B-830-U-SL2

## Luminous Intensity Polar Plot



REPORT NUMBER: P671297

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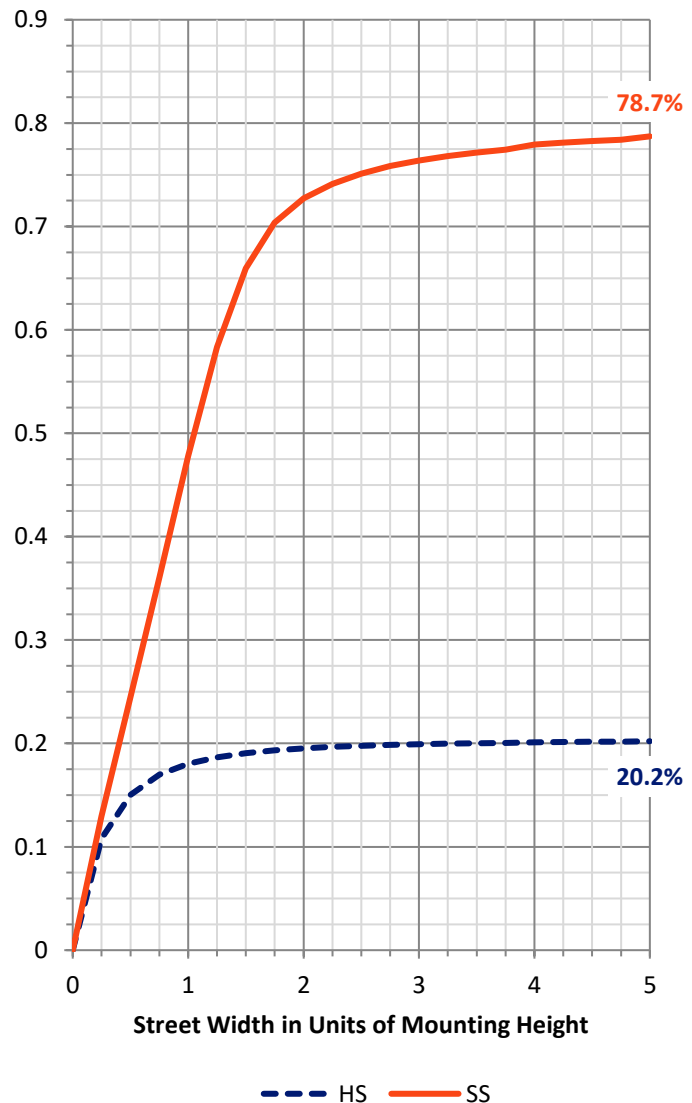
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1111.7   | 0.0    | 1111.7 |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 4319.4   | 0.0    | 4319.4 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 5431.1   | 0.0    | 5431.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 106.1  | 2.0       |
| 10°-20°   | 261.2  | 4.8       |
| 20°-30°   | 358.7  | 6.6       |
| 30°-40°   | 480.9  | 8.9       |
| 40°-50°   | 697.8  | 12.8      |
| 50°-60°   | 1060.6 | 19.5      |
| 60°-70°   | 1309.9 | 24.1      |
| 70°-80°   | 974.1  | 17.9      |
| 80°-90°   | 181.7  | 3.3       |
| 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°    | 5431.1 | 100.0     |
| 0°-180°   | 5431.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P671297

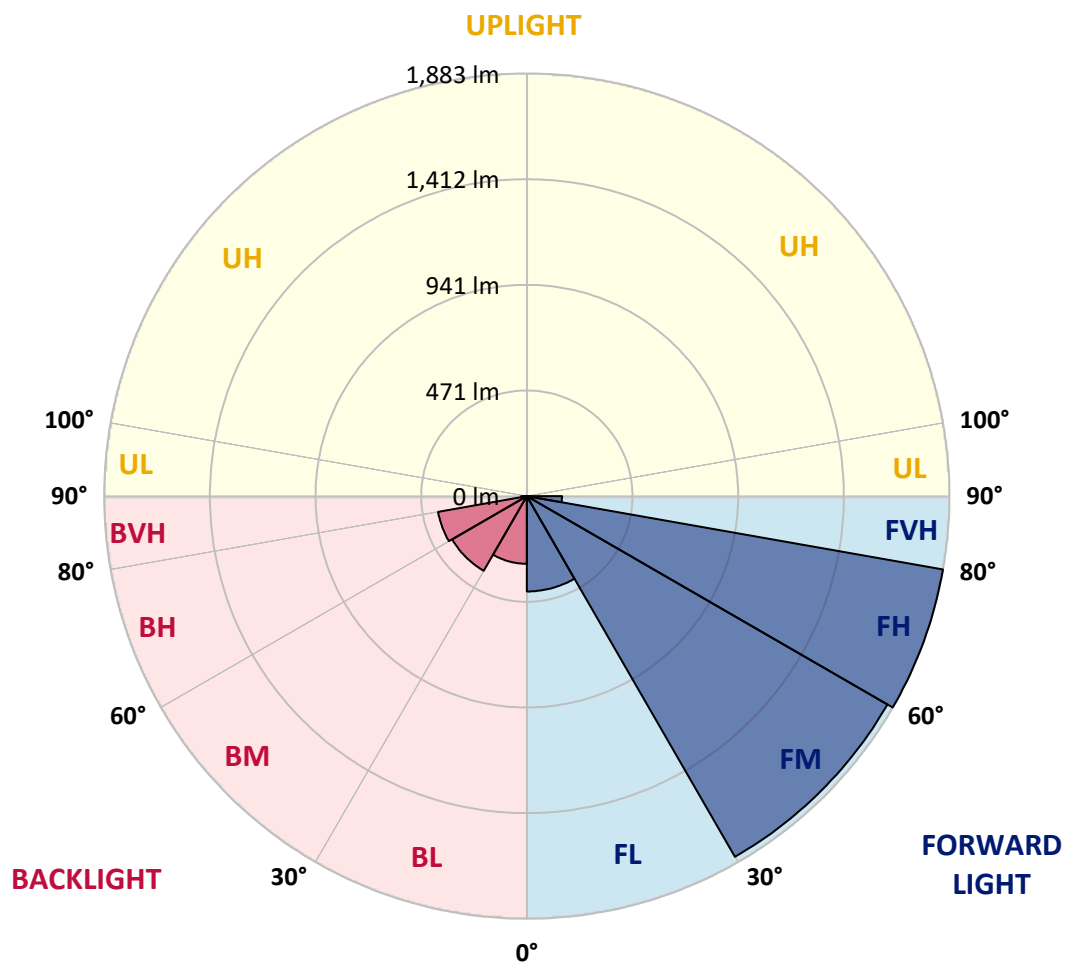
CATALOG NUMBER: CCP-SA-2B-830-U-SL2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 424.7  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 1855.3 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 1882.8 | 34.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 156.6  | 2.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 301.3  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 384.0  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 401.3  | 7.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 25.1   | 0.5       |                         |      | 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





REPORT NUMBER: P671297

CATALOG NUMBER: CCP-SA-2B-830-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 |
| 2.5°  | 1141.3 | 1147.4 | 1149.4 | 1153.4 | 1163.5 | 1171.6 | 1183.7 | 1189.8 | 1183.7 | 1191.8 | 1191.8 |
| 5°    | 1062.5 | 1054.5 | 1074.7 | 1082.7 | 1094.9 | 1111.0 | 1139.3 | 1161.5 | 1155.5 | 1179.7 | 1199.9 |
| 7.5°  | 995.9  | 995.9  | 1001.9 | 1020.1 | 1034.3 | 1058.5 | 1088.8 | 1123.1 | 1133.2 | 1165.6 | 1195.9 |
| 10°   | 935.3  | 943.4  | 943.4  | 971.6  | 979.7  | 1008.0 | 1058.5 | 1100.9 | 1102.9 | 1157.5 | 1199.9 |
| 12.5° | 903.0  | 898.9  | 919.1  | 927.2  | 951.4  | 979.7  | 1020.1 | 1072.6 | 1074.7 | 1133.2 | 1191.8 |
| 15°   | 876.7  | 880.7  | 890.8  | 911.0  | 933.3  | 955.5  | 993.9  | 1042.3 | 1052.4 | 1121.1 | 1187.8 |
| 17.5° | 878.7  | 880.7  | 880.7  | 894.9  | 913.1  | 939.3  | 975.7  | 1032.2 | 1038.3 | 1105.0 | 1181.7 |
| 20°   | 890.8  | 882.8  | 888.8  | 894.9  | 907.0  | 931.2  | 961.5  | 1010.0 | 1016.1 | 1102.9 | 1195.9 |
| 22.5° | 917.1  | 911.0  | 909.0  | 907.0  | 905.0  | 919.1  | 957.5  | 997.9  | 1004.0 | 1092.8 | 1201.9 |
| 25°   | 959.5  | 957.5  | 943.4  | 929.2  | 919.1  | 919.1  | 949.4  | 1008.0 | 1006.0 | 1092.8 | 1206.0 |
| 27.5° | 1010.0 | 1010.0 | 1008.0 | 981.7  | 951.4  | 935.3  | 955.5  | 1004.0 | 1001.9 | 1092.8 | 1216.1 |
| 30°   | 1078.7 | 1078.7 | 1072.6 | 1048.4 | 993.9  | 947.4  | 959.5  | 999.9  | 1006.0 | 1084.8 | 1208.0 |
| 32.5° | 1153.4 | 1151.4 | 1157.5 | 1135.3 | 1078.7 | 1004.0 | 983.8  | 1008.0 | 1014.1 | 1092.8 | 1210.0 |
| 35°   | 1208.0 | 1220.1 | 1240.3 | 1220.1 | 1163.5 | 1062.5 | 1018.1 | 1024.2 | 1028.2 | 1094.9 | 1218.1 |
| 37.5° | 1270.6 | 1284.7 | 1313.0 | 1329.2 | 1268.6 | 1151.4 | 1072.6 | 1050.4 | 1050.4 | 1121.1 | 1220.1 |
| 40°   | 1361.5 | 1347.4 | 1395.8 | 1424.1 | 1399.9 | 1260.5 | 1157.5 | 1098.9 | 1100.9 | 1155.5 | 1246.4 |
| 42.5° | 1428.2 | 1442.3 | 1492.8 | 1543.3 | 1513.0 | 1393.8 | 1250.4 | 1177.7 | 1177.7 | 1206.0 | 1286.8 |
| 45°   | 1502.9 | 1519.1 | 1589.8 | 1650.4 | 1672.6 | 1553.4 | 1377.7 | 1290.8 | 1286.8 | 1304.9 | 1359.5 |
| 47.5° | 1585.7 | 1607.9 | 1688.7 | 1759.4 | 1818.0 | 1719.0 | 1541.3 | 1428.2 | 1426.1 | 1440.3 | 1480.7 |
| 50°   | 1680.7 | 1688.7 | 1755.4 | 1884.7 | 2001.8 | 1939.2 | 1741.3 | 1622.1 | 1612.0 | 1618.0 | 1672.6 |
| 52.5° | 1708.9 | 1702.9 | 1779.6 | 1919.0 | 2133.1 | 2207.9 | 2014.0 | 1842.3 | 1838.2 | 1824.1 | 1894.8 |
| 55°   | 1605.9 | 1626.1 | 1700.9 | 1878.6 | 2240.2 | 2525.0 | 2312.9 | 2143.2 | 2106.9 | 2068.5 | 2153.3 |
| 57.5° | 1399.9 | 1401.9 | 1486.7 | 1696.8 | 2157.4 | 2787.6 | 2820.0 | 2438.2 | 2440.2 | 2337.2 | 2434.1 |
| 60°   | 1088.8 | 1082.7 | 1149.4 | 1339.3 | 1921.0 | 2868.4 | 3373.4 | 2908.8 | 2888.6 | 2605.8 | 2694.7 |
| 62.5° | 785.8  | 773.7  | 787.8  | 898.9  | 1436.2 | 2745.2 | 3916.8 | 3436.1 | 3351.2 | 2880.6 | 2949.2 |
| 65°   | 646.4  | 652.5  | 658.5  | 664.6  | 806.0  | 2264.4 | 4084.5 | 4296.6 | 4183.5 | 3201.7 | 3230.0 |
| 67.5° | 535.3  | 539.3  | 565.6  | 602.0  | 597.9  | 1337.3 | 3890.6 | 5092.5 | 5050.1 | 3599.7 | 3472.4 |
| 70°   | 454.5  | 452.5  | 482.8  | 549.4  | 559.5  | 694.9  | 3080.5 | 5256.1 | 5347.0 | 4027.9 | 3747.1 |
| 72.5° | 363.6  | 367.6  | 393.9  | 482.8  | 549.4  | 585.8  | 1773.6 | 4904.6 | 4902.6 | 4357.2 | 3599.7 |
| 75°   | 260.6  | 260.6  | 296.9  | 400.0  | 531.3  | 579.7  | 981.7  | 3981.5 | 4056.2 | 4094.6 | 3123.0 |
| 77.5° | 171.7  | 179.8  | 208.1  | 299.0  | 498.9  | 567.6  | 622.2  | 2894.7 | 2987.6 | 3062.4 | 2389.7 |
| 80°   | 117.2  | 121.2  | 139.4  | 208.1  | 422.2  | 571.7  | 509.0  | 1947.3 | 1983.7 | 1690.8 | 969.6  |
| 82.5° | 70.7   | 72.7   | 92.9   | 145.4  | 303.0  | 543.4  | 478.7  | 1074.7 | 1052.4 | 511.1  | 278.8  |
| 85°   | 38.4   | 40.4   | 58.6   | 97.0   | 200.0  | 474.7  | 470.7  | 527.2  | 490.9  | 187.9  | 117.2  |
| 87.5° | 14.1   | 14.1   | 26.3   | 48.5   | 115.1  | 325.2  | 410.1  | 313.1  | 292.9  | 94.9   | 54.5   |
| 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: P671297

CATALOG NUMBER: CCP-SA-2B-830-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 | 1199.9 |
| 2.5°  | 1201.9 | 1201.9 | 1201.9 | 1201.9 | 1199.9 | 1191.8 | 1197.9 | 1195.9 | 1183.7 | 1185.8 | 1177.7 |
| 5°    | 1197.9 | 1208.0 | 1201.9 | 1193.8 | 1183.7 | 1159.5 | 1151.4 | 1145.4 | 1129.2 | 1123.1 | 1129.2 |
| 7.5°  | 1208.0 | 1199.9 | 1195.9 | 1181.7 | 1141.3 | 1119.1 | 1090.8 | 1056.5 | 1032.2 | 1026.2 | 1032.2 |
| 10°   | 1206.0 | 1206.0 | 1187.8 | 1147.4 | 1109.0 | 1044.4 | 1008.0 | 947.4  | 913.1  | 903.0  | 905.0  |
| 12.5° | 1197.9 | 1203.9 | 1175.7 | 1111.0 | 1038.3 | 959.5  | 892.9  | 828.2  | 767.6  | 743.4  | 739.3  |
| 15°   | 1206.0 | 1199.9 | 1149.4 | 1066.6 | 965.6  | 856.5  | 759.5  | 664.6  | 608.0  | 571.7  | 563.6  |
| 17.5° | 1193.8 | 1187.8 | 1115.1 | 1006.0 | 870.6  | 731.2  | 610.0  | 507.0  | 450.5  | 436.3  | 436.3  |
| 20°   | 1208.0 | 1169.6 | 1074.7 | 933.3  | 771.6  | 593.9  | 456.5  | 379.8  | 365.6  | 365.6  | 369.7  |
| 22.5° | 1206.0 | 1165.6 | 1040.3 | 862.6  | 652.5  | 448.4  | 339.4  | 317.1  | 319.2  | 335.3  | 333.3  |
| 25°   | 1193.8 | 1157.5 | 991.8  | 783.8  | 527.2  | 337.3  | 280.8  | 274.7  | 288.9  | 307.0  | 305.0  |
| 27.5° | 1191.8 | 1135.3 | 947.4  | 690.8  | 402.0  | 266.6  | 244.4  | 244.4  | 258.6  | 274.7  | 272.7  |
| 30°   | 1179.7 | 1117.1 | 892.9  | 585.8  | 303.0  | 232.3  | 224.2  | 224.2  | 230.3  | 238.4  | 238.4  |
| 32.5° | 1177.7 | 1092.8 | 832.3  | 476.7  | 242.4  | 210.1  | 206.0  | 208.1  | 208.1  | 212.1  | 210.1  |
| 35°   | 1161.5 | 1060.5 | 769.6  | 369.7  | 210.1  | 198.0  | 193.9  | 191.9  | 191.9  | 189.9  | 189.9  |
| 37.5° | 1155.5 | 1040.3 | 705.0  | 286.8  | 195.9  | 187.9  | 183.8  | 177.8  | 175.7  | 175.7  | 173.7  |
| 40°   | 1161.5 | 1020.1 | 642.4  | 232.3  | 183.8  | 179.8  | 173.7  | 165.6  | 163.6  | 163.6  | 163.6  |
| 42.5° | 1183.7 | 1018.1 | 577.7  | 202.0  | 177.8  | 171.7  | 163.6  | 155.5  | 153.5  | 155.5  | 153.5  |
| 45°   | 1234.2 | 1034.3 | 515.1  | 187.9  | 169.7  | 163.6  | 153.5  | 147.5  | 145.4  | 147.5  | 147.5  |
| 47.5° | 1317.1 | 1078.7 | 458.5  | 179.8  | 163.6  | 155.5  | 145.4  | 139.4  | 139.4  | 139.4  | 139.4  |
| 50°   | 1454.4 | 1163.5 | 404.0  | 173.7  | 159.6  | 149.5  | 139.4  | 131.3  | 129.3  | 129.3  | 131.3  |
| 52.5° | 1660.5 | 1309.0 | 359.6  | 169.7  | 153.5  | 141.4  | 131.3  | 125.2  | 121.2  | 119.2  | 121.2  |
| 55°   | 1908.9 | 1521.1 | 345.4  | 165.6  | 145.4  | 135.3  | 125.2  | 117.2  | 113.1  | 113.1  | 111.1  |
| 57.5° | 2175.6 | 1755.4 | 369.7  | 161.6  | 139.4  | 127.3  | 117.2  | 109.1  | 105.0  | 103.0  | 103.0  |
| 60°   | 2464.4 | 2032.1 | 458.5  | 159.6  | 133.3  | 119.2  | 109.1  | 103.0  | 97.0   | 94.9   | 94.9   |
| 62.5° | 2727.0 | 2282.6 | 618.1  | 157.6  | 129.3  | 111.1  | 101.0  | 92.9   | 88.9   | 86.9   | 86.9   |
| 65°   | 3026.0 | 2561.4 | 773.7  | 165.6  | 127.3  | 105.0  | 92.9   | 84.8   | 80.8   | 78.8   | 78.8   |
| 67.5° | 3286.6 | 2803.8 | 864.6  | 185.8  | 133.3  | 97.0   | 82.8   | 76.8   | 74.7   | 72.7   | 72.7   |
| 70°   | 3476.5 | 2878.5 | 579.7  | 204.0  | 143.4  | 90.9   | 74.7   | 70.7   | 66.7   | 66.7   | 66.7   |
| 72.5° | 3221.9 | 2569.5 | 343.4  | 191.9  | 135.3  | 84.8   | 66.7   | 62.6   | 60.6   | 60.6   | 58.6   |
| 75°   | 2755.3 | 2187.7 | 264.6  | 155.5  | 109.1  | 72.7   | 58.6   | 54.5   | 52.5   | 52.5   | 50.5   |
| 77.5° | 2034.2 | 1567.5 | 195.9  | 123.2  | 84.8   | 58.6   | 50.5   | 48.5   | 46.5   | 44.4   | 44.4   |
| 80°   | 795.9  | 686.8  | 133.3  | 90.9   | 62.6   | 46.5   | 42.4   | 40.4   | 38.4   | 36.4   | 36.4   |
| 82.5° | 246.4  | 208.1  | 76.8   | 60.6   | 44.4   | 36.4   | 34.3   | 32.3   | 30.3   | 28.3   | 28.3   |
| 85°   | 107.1  | 103.0  | 50.5   | 38.4   | 30.3   | 24.2   | 24.2   | 22.2   | 20.2   | 18.2   | 18.2   |
| 87.5° | 52.5   | 50.5   | 28.3   | 18.2   | 16.2   | 12.1   | 12.1   | 10.1   | 8.1    | 8.1    | 8.1    |
| 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)