

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: P674185

Luminaire Tested: **CCP-SA-1E-835-U-SLL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674185
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-835-U-SLL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ SLL distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

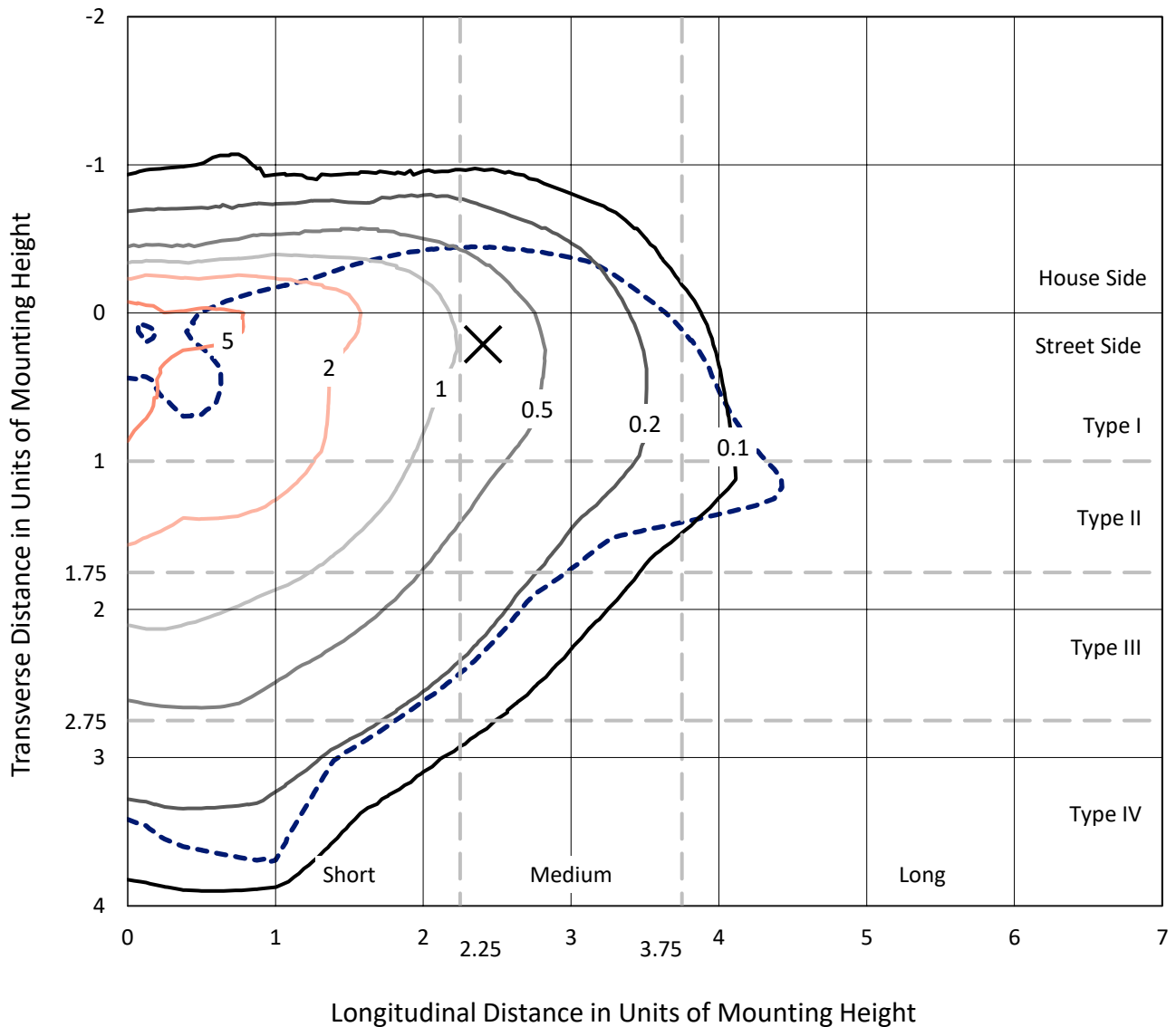
Lumens per Lamp: N/A
Luminaire Lumens: 4087.5 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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: P674185
 CATALOG NUMBER: CCP-SA-1E-835-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

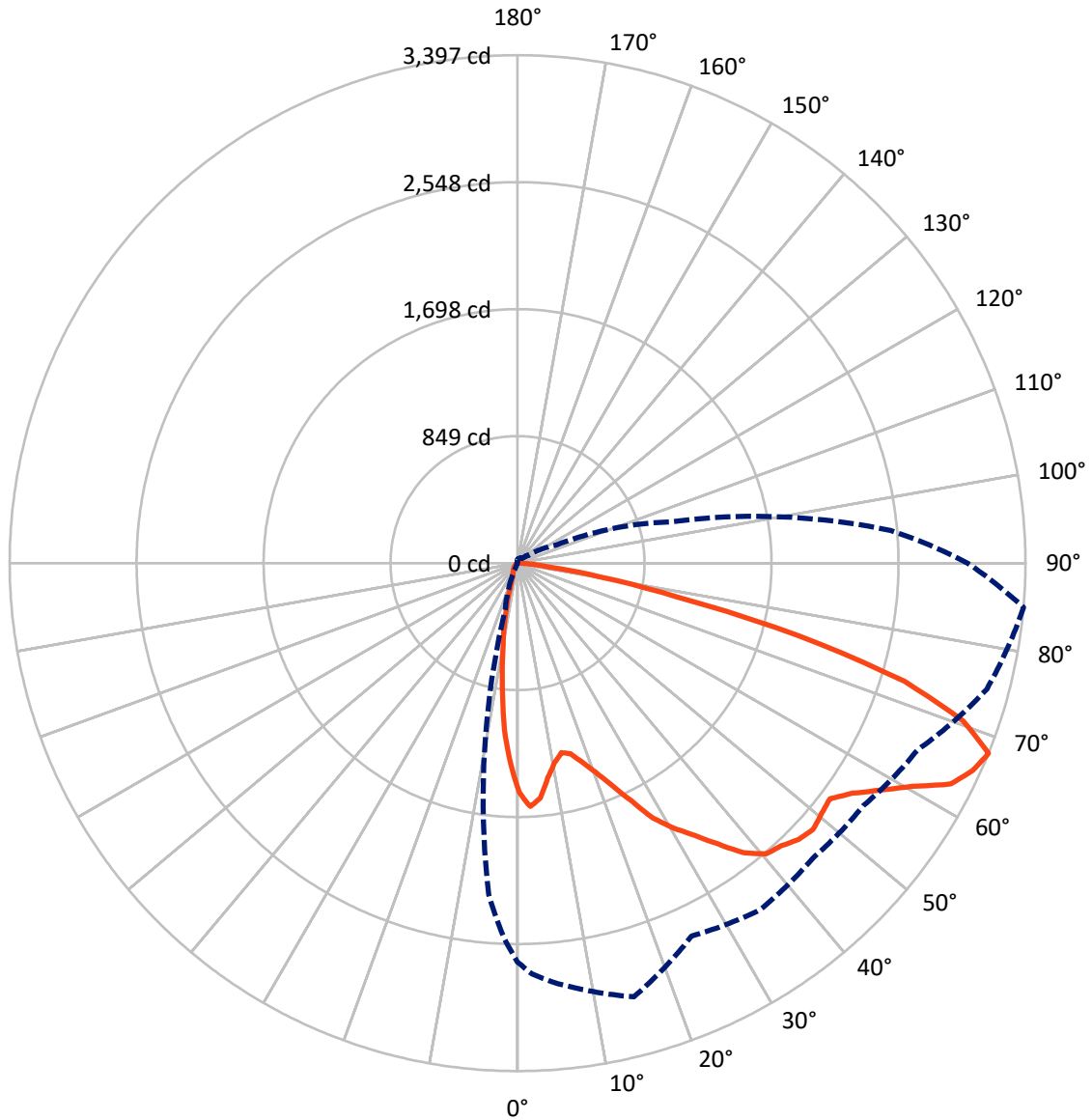
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P674185
CATALOG NUMBER: CCP-SA-1E-835-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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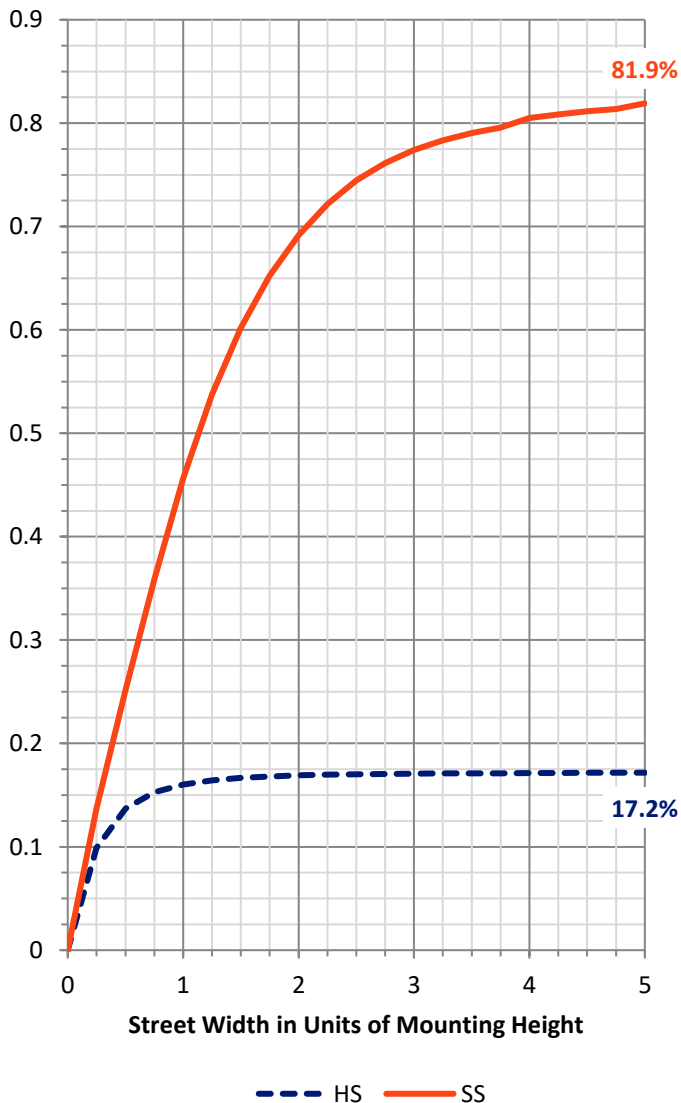
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 709.7 | 0.0 | 709.7 |
| | % Fixture | 17.4 | 0.0 | 17.4 |
| Street Side | Lumens | 3377.8 | 0.0 | 3377.8 |
| | % Fixture | 82.6 | 0.0 | 82.6 |
| Total | Lumens | 4087.5 | 0.0 | 4087.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.8 | 2.9 |
| 10°-20° | 229.0 | 5.6 |
| 20°-30° | 316.8 | 7.8 |
| 30°-40° | 447.8 | 11.0 |
| 40°-50° | 609.6 | 14.9 |
| 50°-60° | 807.4 | 19.8 |
| 60°-70° | 937.5 | 22.9 |
| 70°-80° | 530.9 | 13.0 |
| 80°-90° | 91.7 | 2.2 |
| 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° | 4087.5 | 100.0 |
| 0°-180° | 4087.5 | 100.0 |



REPORT NUMBER: P674185

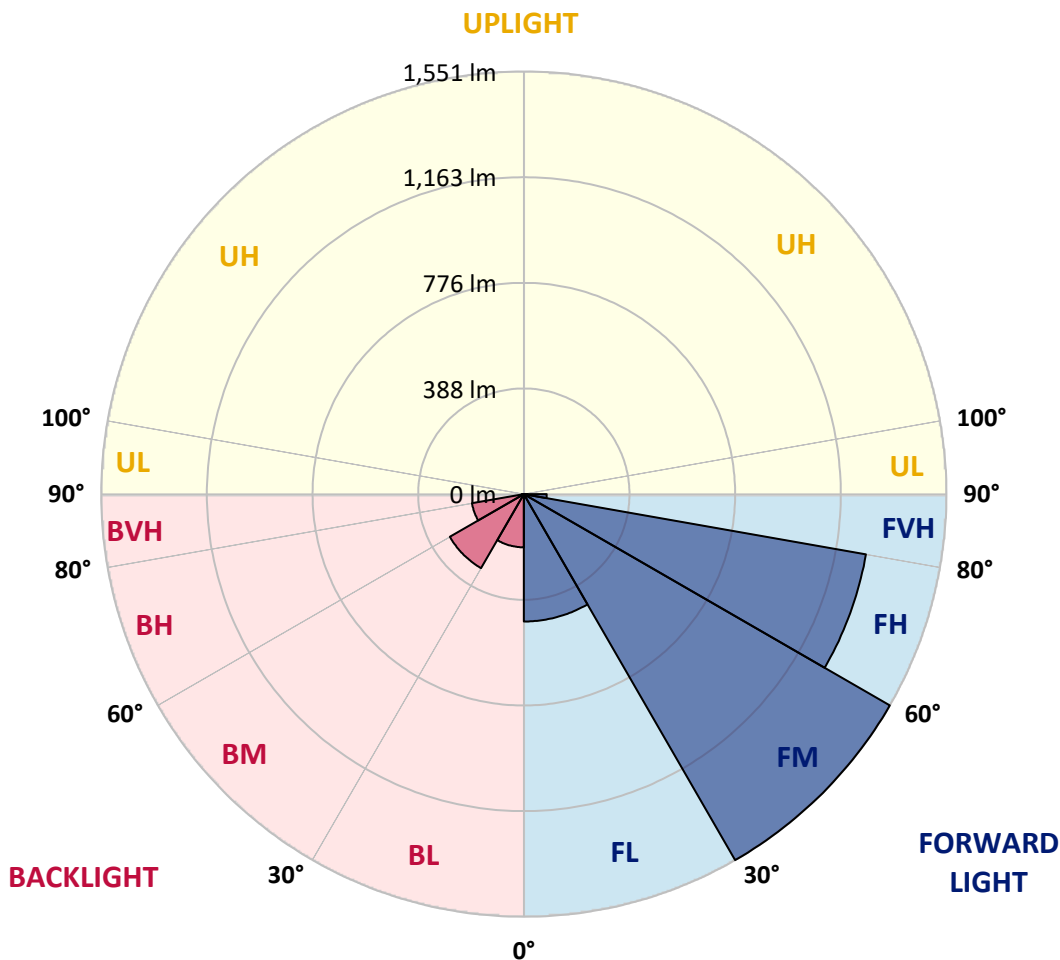
CATALOG NUMBER: CCP-SA-1E-835-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 467.4 | 11.4 | | | |
| FM (30°-60°) | 1551.2 | 38.0 | | | |
| FH (60°-80°) | 1275.1 | 31.2 | | | G1/1800 |
| FVH (80°-90°) | 84.0 | 2.1 | | | G1/100 |
| BL (0°-30°) | 195.1 | 4.8 | B1/500 | | |
| BM (30°-60°) | 313.6 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 193.3 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.7 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Medium





REPORT NUMBER: P674185

CATALOG NUMBER: CCP-SA-1E-835-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 |
| 2.5° | 1596.9 | 1630.7 | 1631.8 | 1647.1 | 1662.4 | 1662.4 | 1698.4 | 1689.7 | 1658.0 | 1652.6 | 1629.6 |
| 5° | 1608.9 | 1620.9 | 1629.6 | 1707.1 | 1772.6 | 1766.1 | 1785.7 | 1772.6 | 1711.5 | 1632.9 | 1579.4 |
| 7.5° | 1505.2 | 1518.3 | 1553.2 | 1685.3 | 1773.7 | 1803.2 | 1840.3 | 1758.4 | 1694.0 | 1552.1 | 1449.5 |
| 10° | 1367.7 | 1392.8 | 1457.2 | 1607.8 | 1717.0 | 1810.8 | 1810.8 | 1745.3 | 1620.9 | 1482.3 | 1356.8 |
| 12.5° | 1291.3 | 1341.5 | 1376.4 | 1529.2 | 1671.1 | 1735.5 | 1733.3 | 1698.4 | 1617.6 | 1443.0 | 1301.1 |
| 15° | 1304.4 | 1318.6 | 1392.8 | 1511.8 | 1605.6 | 1602.4 | 1641.7 | 1630.7 | 1574.0 | 1477.9 | 1321.8 |
| 17.5° | 1364.4 | 1386.2 | 1450.6 | 1511.8 | 1556.5 | 1543.4 | 1542.3 | 1594.7 | 1598.0 | 1536.9 | 1399.3 |
| 20° | 1462.6 | 1527.0 | 1557.6 | 1576.2 | 1521.6 | 1465.9 | 1459.4 | 1532.5 | 1589.3 | 1612.2 | 1492.1 |
| 22.5° | 1619.8 | 1662.4 | 1724.6 | 1629.6 | 1487.7 | 1417.9 | 1404.8 | 1485.6 | 1600.2 | 1701.7 | 1612.2 |
| 25° | 1773.7 | 1806.5 | 1866.5 | 1744.3 | 1525.9 | 1408.1 | 1385.1 | 1455.0 | 1641.7 | 1826.1 | 1757.4 |
| 27.5° | 1936.4 | 1964.7 | 1971.3 | 1828.3 | 1546.7 | 1388.4 | 1361.1 | 1455.0 | 1676.6 | 1891.6 | 1930.9 |
| 30° | 2035.7 | 2069.5 | 2076.1 | 1902.5 | 1580.5 | 1404.8 | 1391.7 | 1461.5 | 1700.6 | 1947.3 | 2055.3 |
| 32.5° | 2147.0 | 2155.8 | 2150.3 | 1915.6 | 1617.6 | 1452.8 | 1398.2 | 1505.2 | 1727.9 | 2013.9 | 2168.9 |
| 35° | 2280.2 | 2295.5 | 2239.8 | 1975.7 | 1700.6 | 1483.4 | 1463.7 | 1558.7 | 1774.8 | 2044.4 | 2306.4 |
| 37.5° | 2381.7 | 2429.7 | 2304.2 | 1998.6 | 1717.0 | 1547.8 | 1551.1 | 1670.0 | 1807.6 | 2081.5 | 2458.1 |
| 40° | 2572.7 | 2491.9 | 2413.4 | 2077.2 | 1779.2 | 1656.9 | 1639.5 | 1784.6 | 1917.8 | 2105.5 | 2557.4 |
| 42.5° | 2677.5 | 2634.9 | 2455.9 | 2084.8 | 1875.2 | 1807.6 | 1811.9 | 1914.5 | 1975.7 | 2173.2 | 2584.7 |
| 45° | 2703.7 | 2659.0 | 2513.8 | 2090.3 | 1970.2 | 1985.5 | 2060.8 | 2080.4 | 2060.8 | 2218.0 | 2636.0 |
| 47.5° | 2770.3 | 2673.1 | 2507.2 | 2163.4 | 2124.1 | 2183.0 | 2279.1 | 2321.7 | 2176.5 | 2201.6 | 2660.0 |
| 50° | 2757.2 | 2701.5 | 2493.0 | 2194.0 | 2311.8 | 2467.9 | 2532.3 | 2514.9 | 2305.3 | 2167.8 | 2633.8 |
| 52.5° | 2702.6 | 2642.6 | 2536.7 | 2276.9 | 2487.6 | 2676.4 | 2765.9 | 2722.3 | 2419.9 | 2244.2 | 2616.4 |
| 55° | 2782.3 | 2736.4 | 2593.5 | 2389.3 | 2619.7 | 2859.8 | 2923.1 | 2890.4 | 2560.7 | 2315.1 | 2715.7 |
| 57.5° | 2868.5 | 2858.7 | 2747.4 | 2521.4 | 2775.7 | 3048.6 | 3048.6 | 3008.2 | 2683.0 | 2417.7 | 2863.1 |
| 60° | 2993.0 | 3014.8 | 2860.9 | 2608.7 | 2829.2 | 3037.7 | 3196.0 | 3149.0 | 2806.3 | 2597.8 | 3030.1 |
| 62.5° | 2952.6 | 3022.4 | 3007.1 | 2796.5 | 2890.4 | 3091.2 | 3177.4 | 3212.4 | 2959.1 | 2817.2 | 3252.7 |
| 65° | 2822.7 | 2896.9 | 3006.1 | 2919.8 | 2844.5 | 2961.3 | 3005.0 | 3110.8 | 3035.5 | 3023.5 | 3344.4 |
| 67.5° | 2667.7 | 2748.5 | 2816.1 | 3002.8 | 2751.7 | 2829.2 | 2791.0 | 2824.9 | 2952.6 | 3249.5 | 3396.8 |
| 70° | 2329.3 | 2406.8 | 2513.8 | 2818.3 | 2506.1 | 2436.3 | 2426.5 | 2410.1 | 2608.7 | 3168.7 | 3158.9 |
| 72.5° | 1915.6 | 1951.6 | 2128.5 | 2291.1 | 1854.5 | 1841.4 | 1856.7 | 1838.1 | 2068.4 | 2868.5 | 2705.9 |
| 75° | 1434.3 | 1470.3 | 1570.7 | 1759.5 | 1262.9 | 1187.6 | 1274.9 | 1361.1 | 1579.4 | 2226.7 | 1944.0 |
| 77.5° | 1078.4 | 1124.3 | 1187.6 | 1316.4 | 926.7 | 808.8 | 820.8 | 902.7 | 1141.7 | 1783.5 | 1089.3 |
| 80° | 699.7 | 694.2 | 816.5 | 906.0 | 697.5 | 719.3 | 688.8 | 748.8 | 827.4 | 954.0 | 556.7 |
| 82.5° | 403.9 | 409.3 | 460.6 | 519.6 | 485.7 | 555.6 | 400.6 | 669.1 | 590.5 | 388.6 | 207.4 |
| 85° | 227.0 | 236.9 | 283.8 | 360.2 | 304.5 | 204.1 | 167.0 | 331.8 | 371.1 | 159.4 | 100.4 |
| 87.5° | 22.9 | 19.6 | 38.2 | 136.4 | 83.0 | 33.8 | 50.2 | 79.7 | 89.5 | 60.0 | 29.5 |
| 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: P674185
 CATALOG NUMBER: CCP-SA-1E-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 |
| 2.5° | 1596.9 | 1596.9 | 1569.6 | 1523.8 | 1505.2 | 1472.5 | 1427.7 | 1441.9 | 1426.6 | 1371.0 | 1356.8 |
| 5° | 1531.4 | 1479.0 | 1422.3 | 1352.4 | 1312.0 | 1229.1 | 1202.9 | 1155.9 | 1163.6 | 1116.6 | 1118.8 |
| 7.5° | 1395.0 | 1353.5 | 1257.4 | 1165.7 | 1086.1 | 1014.0 | 912.5 | 874.3 | 837.2 | 818.6 | 840.5 |
| 10° | 1315.3 | 1237.8 | 1106.8 | 986.7 | 880.9 | 816.5 | 748.8 | 696.4 | 648.4 | 612.3 | 604.7 |
| 12.5° | 1257.4 | 1188.7 | 1030.4 | 884.1 | 801.2 | 748.8 | 686.6 | 614.5 | 567.6 | 505.4 | 486.8 |
| 15° | 1240.0 | 1155.9 | 988.9 | 843.7 | 763.0 | 676.7 | 605.8 | 534.8 | 473.7 | 408.2 | 385.3 |
| 17.5° | 1300.0 | 1202.9 | 987.8 | 811.0 | 697.5 | 604.7 | 506.5 | 426.8 | 364.6 | 304.5 | 290.3 |
| 20° | 1401.5 | 1253.1 | 1019.5 | 791.4 | 635.3 | 510.8 | 399.5 | 319.8 | 250.0 | 210.7 | 200.8 |
| 22.5° | 1517.2 | 1338.2 | 1022.8 | 739.0 | 573.0 | 417.0 | 291.4 | 210.7 | 171.4 | 152.8 | 147.4 |
| 25° | 1659.1 | 1474.6 | 1062.1 | 696.4 | 499.9 | 316.5 | 207.4 | 161.5 | 138.6 | 127.7 | 125.5 |
| 27.5° | 1775.9 | 1569.6 | 1104.6 | 651.6 | 427.9 | 234.7 | 162.6 | 132.1 | 120.1 | 109.2 | 108.1 |
| 30° | 1897.1 | 1678.8 | 1116.6 | 624.4 | 365.7 | 193.2 | 139.7 | 116.8 | 103.7 | 98.2 | 97.1 |
| 32.5° | 2002.9 | 1797.7 | 1154.8 | 579.6 | 306.7 | 170.3 | 126.6 | 104.8 | 96.1 | 87.3 | 86.2 |
| 35° | 2139.4 | 1866.5 | 1173.4 | 555.6 | 284.9 | 153.9 | 115.7 | 96.1 | 83.0 | 77.5 | 75.3 |
| 37.5° | 2285.7 | 1933.1 | 1185.4 | 537.0 | 266.3 | 144.1 | 109.2 | 90.6 | 78.6 | 70.9 | 68.8 |
| 40° | 2422.1 | 2027.0 | 1167.9 | 514.1 | 252.1 | 132.1 | 104.8 | 84.0 | 73.1 | 65.5 | 62.2 |
| 42.5° | 2526.9 | 2118.6 | 1162.5 | 492.3 | 236.9 | 127.7 | 99.3 | 80.8 | 68.8 | 60.0 | 58.9 |
| 45° | 2585.8 | 2180.9 | 1124.3 | 474.8 | 224.9 | 129.9 | 97.1 | 76.4 | 65.5 | 57.9 | 53.5 |
| 47.5° | 2571.6 | 2228.9 | 1134.1 | 469.4 | 208.5 | 121.2 | 96.1 | 73.1 | 60.0 | 53.5 | 50.2 |
| 50° | 2650.2 | 2326.0 | 1117.7 | 451.9 | 196.5 | 109.2 | 104.8 | 73.1 | 58.9 | 51.3 | 48.0 |
| 52.5° | 2663.3 | 2414.4 | 1152.6 | 420.2 | 177.9 | 100.4 | 103.7 | 72.0 | 56.8 | 49.1 | 44.8 |
| 55° | 2772.5 | 2517.1 | 1220.3 | 402.8 | 162.6 | 87.3 | 95.0 | 69.9 | 51.3 | 44.8 | 42.6 |
| 57.5° | 2920.9 | 2729.9 | 1264.0 | 386.4 | 141.9 | 76.4 | 79.7 | 68.8 | 46.9 | 41.5 | 38.2 |
| 60° | 3063.9 | 2815.0 | 1267.3 | 356.9 | 122.3 | 68.8 | 62.2 | 68.8 | 43.7 | 37.1 | 33.8 |
| 62.5° | 3170.9 | 2815.0 | 1245.4 | 331.8 | 107.0 | 61.1 | 54.6 | 65.5 | 39.3 | 32.7 | 30.6 |
| 65° | 3113.0 | 2739.7 | 1188.7 | 311.1 | 97.1 | 53.5 | 46.9 | 50.2 | 34.9 | 28.4 | 26.2 |
| 67.5° | 3009.3 | 2505.0 | 1063.1 | 286.0 | 96.1 | 46.9 | 40.4 | 37.1 | 30.6 | 25.1 | 22.9 |
| 70° | 2843.4 | 2188.5 | 885.2 | 257.6 | 93.9 | 42.6 | 36.0 | 31.7 | 27.3 | 21.8 | 19.6 |
| 72.5° | 2291.1 | 1807.6 | 727.0 | 241.2 | 91.7 | 37.1 | 30.6 | 27.3 | 22.9 | 18.6 | 16.4 |
| 75° | 1587.1 | 1154.8 | 560.0 | 206.3 | 89.5 | 33.8 | 28.4 | 24.0 | 19.6 | 15.3 | 14.2 |
| 77.5° | 951.8 | 771.7 | 361.3 | 155.0 | 58.9 | 27.3 | 24.0 | 18.6 | 16.4 | 13.1 | 12.0 |
| 80° | 445.3 | 364.6 | 146.3 | 60.0 | 28.4 | 19.6 | 16.4 | 14.2 | 13.1 | 10.9 | 9.8 |
| 82.5° | 174.6 | 153.9 | 70.9 | 34.9 | 22.9 | 15.3 | 13.1 | 12.0 | 10.9 | 8.7 | 7.6 |
| 85° | 93.9 | 83.0 | 33.8 | 24.0 | 16.4 | 10.9 | 10.9 | 9.8 | 8.7 | 7.6 | 6.5 |
| 87.5° | 20.7 | 15.3 | 14.2 | 14.2 | 12.0 | 8.7 | 8.7 | 7.6 | 6.5 | 5.5 | 4.4 |
| 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: P674185
 CATALOG NUMBER: CCP-SA-1E-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 | 1536.9 |
| 2.5° | 1349.1 | 1365.5 | 1339.3 | 1355.7 | 1332.8 | 1350.2 | 1352.4 | 1336.0 | 1340.4 | 1362.2 | 1372.0 |
| 5° | 1149.4 | 1138.5 | 1114.4 | 1106.8 | 1107.9 | 1093.7 | 1099.2 | 1106.8 | 1118.8 | 1125.4 | 1145.0 |
| 7.5° | 828.5 | 853.6 | 852.5 | 871.0 | 872.1 | 869.9 | 854.7 | 821.9 | 832.8 | 824.1 | 835.0 |
| 10° | 592.7 | 603.6 | 624.4 | 636.4 | 658.2 | 646.2 | 611.3 | 598.2 | 591.6 | 590.5 | 601.4 |
| 12.5° | 473.7 | 447.5 | 445.3 | 449.7 | 460.6 | 446.4 | 429.0 | 413.7 | 421.3 | 436.6 | 448.6 |
| 15° | 366.8 | 344.9 | 316.5 | 312.2 | 314.4 | 307.8 | 289.3 | 269.6 | 275.1 | 290.3 | 299.1 |
| 17.5° | 281.6 | 256.5 | 236.9 | 223.8 | 219.4 | 196.5 | 169.2 | 152.8 | 148.4 | 147.4 | 155.0 |
| 20° | 189.9 | 185.6 | 182.3 | 165.9 | 165.9 | 133.2 | 110.2 | 98.2 | 98.2 | 100.4 | 101.5 |
| 22.5° | 141.9 | 136.4 | 137.5 | 134.3 | 125.5 | 99.3 | 87.3 | 84.0 | 84.0 | 86.2 | 86.2 |
| 25° | 123.3 | 115.7 | 113.5 | 112.4 | 103.7 | 85.1 | 76.4 | 73.1 | 73.1 | 75.3 | 75.3 |
| 27.5° | 104.8 | 102.6 | 99.3 | 95.0 | 87.3 | 73.1 | 67.7 | 64.4 | 65.5 | 66.6 | 65.5 |
| 30° | 96.1 | 90.6 | 86.2 | 86.2 | 77.5 | 65.5 | 61.1 | 58.9 | 56.8 | 58.9 | 60.0 |
| 32.5° | 85.1 | 81.9 | 79.7 | 76.4 | 66.6 | 57.9 | 53.5 | 51.3 | 50.2 | 50.2 | 51.3 |
| 35° | 73.1 | 73.1 | 70.9 | 66.6 | 57.9 | 52.4 | 46.9 | 44.8 | 43.7 | 44.8 | 44.8 |
| 37.5° | 65.5 | 62.2 | 63.3 | 58.9 | 51.3 | 45.8 | 40.4 | 38.2 | 38.2 | 37.1 | 38.2 |
| 40° | 61.1 | 55.7 | 52.4 | 50.2 | 45.8 | 39.3 | 34.9 | 32.7 | 31.7 | 31.7 | 31.7 |
| 42.5° | 54.6 | 50.2 | 43.7 | 42.6 | 41.5 | 33.8 | 28.4 | 27.3 | 26.2 | 25.1 | 25.1 |
| 45° | 51.3 | 44.8 | 39.3 | 33.8 | 33.8 | 28.4 | 24.0 | 21.8 | 20.7 | 19.6 | 20.7 |
| 47.5° | 46.9 | 40.4 | 33.8 | 28.4 | 27.3 | 22.9 | 18.6 | 16.4 | 15.3 | 15.3 | 15.3 |
| 50° | 44.8 | 36.0 | 29.5 | 24.0 | 20.7 | 18.6 | 14.2 | 12.0 | 10.9 | 10.9 | 10.9 |
| 52.5° | 41.5 | 33.8 | 26.2 | 20.7 | 16.4 | 14.2 | 10.9 | 8.7 | 7.6 | 7.6 | 7.6 |
| 55° | 37.1 | 30.6 | 22.9 | 17.5 | 14.2 | 10.9 | 7.6 | 5.5 | 4.4 | 4.4 | 4.4 |
| 57.5° | 34.9 | 27.3 | 19.6 | 15.3 | 10.9 | 7.6 | 4.4 | 3.3 | 3.3 | 2.2 | 3.3 |
| 60° | 31.7 | 24.0 | 16.4 | 12.0 | 8.7 | 5.5 | 3.3 | 1.1 | 1.1 | 1.1 | 1.1 |
| 62.5° | 27.3 | 20.7 | 14.2 | 9.8 | 6.5 | 3.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 22.9 | 16.4 | 10.9 | 7.6 | 4.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 19.6 | 14.2 | 8.7 | 5.5 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 17.5 | 12.0 | 6.5 | 4.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 14.2 | 9.8 | 5.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 12.0 | 7.6 | 3.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 9.8 | 5.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 7.6 | 4.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 6.5 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.3 | 1.1 | 0.0 | 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 |



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| 30° | 61.1 | 67.7 | 79.7 | 93.9 | 172.5 | 525.0 | 1209.4 | 1858.9 | 2012.8 | 2035.7 |
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| 40° | 34.9 | 38.2 | 44.8 | 51.3 | 74.2 | 181.2 | 1127.5 | 2272.6 | 2474.5 | 2572.7 |
| 42.5° | 29.5 | 32.7 | 37.1 | 48.0 | 61.1 | 134.3 | 1023.8 | 2366.4 | 2594.6 | 2677.5 |
| 45° | 22.9 | 27.3 | 33.8 | 48.0 | 49.1 | 99.3 | 916.9 | 2436.3 | 2662.2 | 2703.7 |
| 47.5° | 17.5 | 21.8 | 32.7 | 41.5 | 39.3 | 68.8 | 790.3 | 2516.0 | 2732.1 | 2770.3 |
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| 57.5° | 4.4 | 7.6 | 12.0 | 15.3 | 20.7 | 34.9 | 628.7 | 2749.5 | 2852.2 | 2868.5 |
| 60° | 2.2 | 5.5 | 8.7 | 12.0 | 17.5 | 30.6 | 572.0 | 2821.6 | 2975.5 | 2993.0 |
| 62.5° | 1.1 | 3.3 | 6.5 | 9.8 | 14.2 | 24.0 | 513.0 | 2707.0 | 2922.0 | 2952.6 |
| 65° | 0.0 | 2.2 | 4.4 | 6.5 | 8.7 | 17.5 | 417.0 | 2443.9 | 2710.3 | 2822.7 |
| 67.5° | 0.0 | 0.0 | 2.2 | 4.4 | 5.5 | 13.1 | 314.4 | 2223.4 | 2514.9 | 2667.7 |
| 70° | 0.0 | 0.0 | 1.1 | 1.1 | 3.3 | 9.8 | 200.8 | 1841.4 | 2245.3 | 2329.3 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 6.5 | 116.8 | 1367.7 | 1759.5 | 1915.6 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 58.9 | 879.8 | 1224.7 | 1434.3 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 31.7 | 567.6 | 902.7 | 1078.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 18.6 | 329.6 | 577.4 | 699.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6 | 161.5 | 344.9 | 403.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 86.2 | 172.5 | 227.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 12.0 | 22.9 |
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