

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: P677156

Luminaire Tested: **CCW-SA-2B-750-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677156
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-750-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

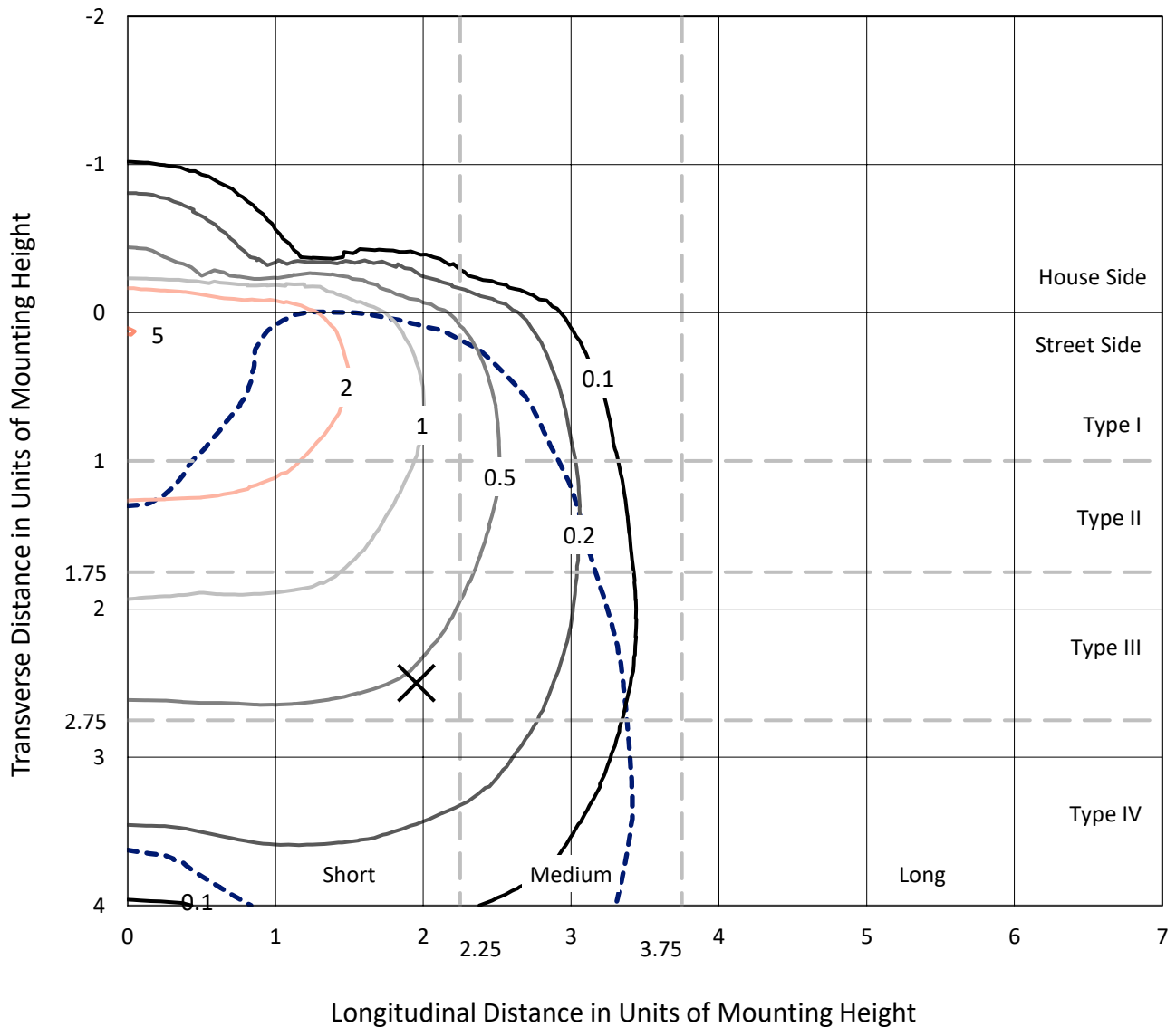
Lumens per Lamp: N/A
Luminaire Lumens: 5835.3 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

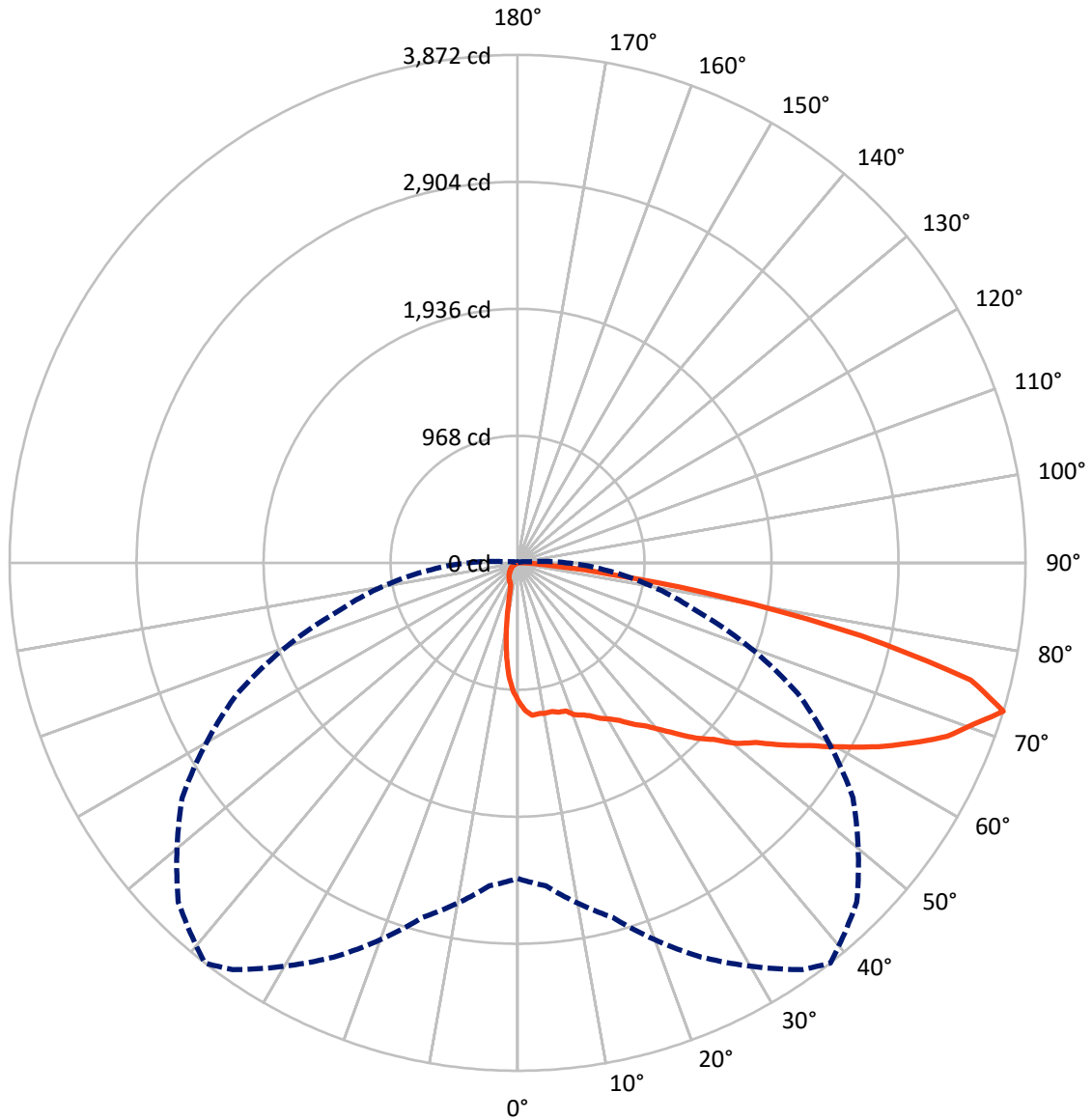
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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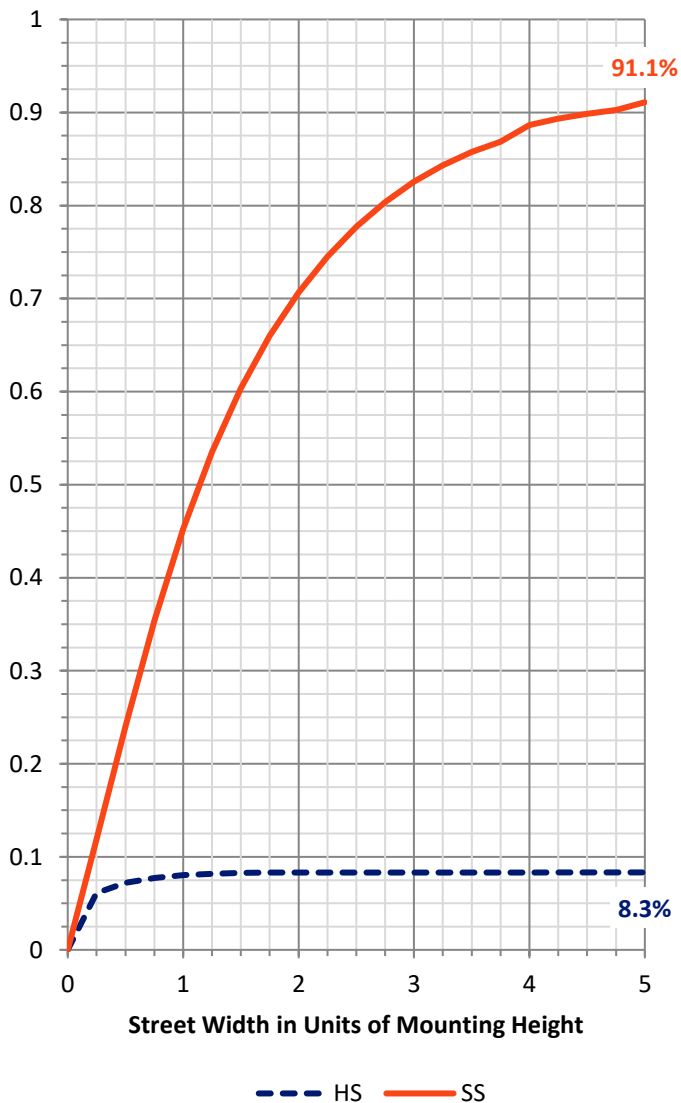
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 488.7 | 0.0 | 488.7 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 5346.6 | 0.0 | 5346.6 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 5835.3 | 0.0 | 5835.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.4 | 1.6 |
| 10°-20° | 226.1 | 3.9 |
| 20°-30° | 362.5 | 6.2 |
| 30°-40° | 547.4 | 9.4 |
| 40°-50° | 833.1 | 14.3 |
| 50°-60° | 1172.8 | 20.1 |
| 60°-70° | 1432.6 | 24.6 |
| 70°-80° | 1040.3 | 17.8 |
| 80°-90° | 128.1 | 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° | 5835.3 | 100.0 |
| 0°-180° | 5835.3 | 100.0 |

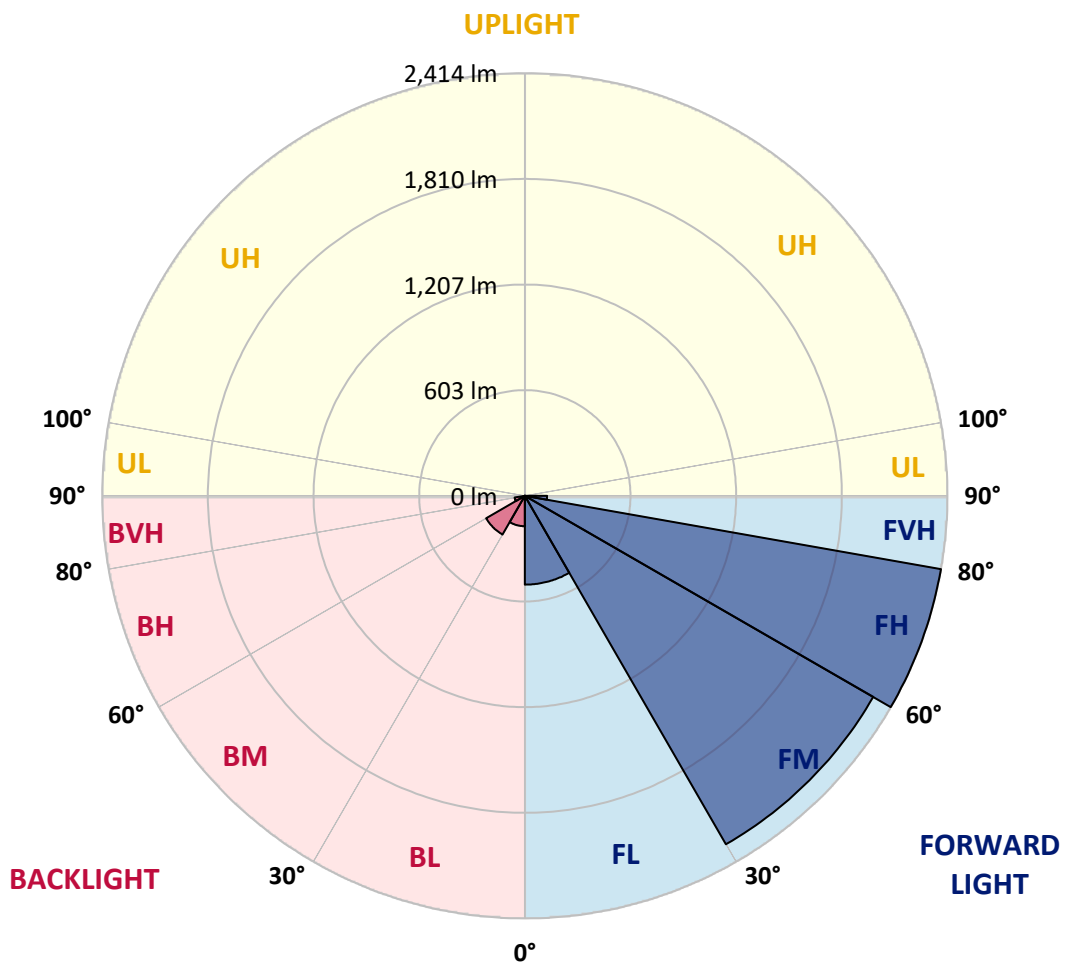


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 507.5 | 8.7 | | | |
| FM (30°-60°) | 2298.0 | 39.4 | | | |
| FH (60°-80°) | 2413.7 | 41.4 | | | G2/5000 |
| FVH (80°-90°) | 127.5 | 2.2 | | | G2/225 |
| BL (0°-30°) | 173.5 | 3.0 | B1/500 | | |
| BM (30°-60°) | 255.3 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 59.3 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.7 | 0.0 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 |
| 2.5° | 1159.3 | 1159.3 | 1170.2 | 1159.3 | 1155.2 | 1129.2 | 1130.5 | 1116.8 | 1103.2 | 1084.0 | 1066.2 |
| 5° | 1173.0 | 1182.5 | 1189.4 | 1179.8 | 1164.8 | 1167.5 | 1177.1 | 1151.1 | 1114.1 | 1090.8 | 1051.2 |
| 7.5° | 1167.5 | 1188.0 | 1182.5 | 1177.1 | 1167.5 | 1160.6 | 1147.0 | 1136.0 | 1118.2 | 1096.3 | 1049.8 |
| 10° | 1163.4 | 1170.2 | 1171.6 | 1167.5 | 1147.0 | 1166.1 | 1151.1 | 1133.3 | 1111.4 | 1085.4 | 1027.9 |
| 12.5° | 1148.3 | 1148.3 | 1160.6 | 1151.1 | 1153.8 | 1163.4 | 1156.5 | 1152.4 | 1129.2 | 1107.3 | 1056.6 |
| 15° | 1131.9 | 1137.4 | 1156.5 | 1171.6 | 1185.3 | 1181.2 | 1177.1 | 1164.8 | 1144.2 | 1119.6 | 1066.2 |
| 17.5° | 1136.0 | 1138.7 | 1168.9 | 1196.2 | 1189.4 | 1186.7 | 1208.6 | 1182.5 | 1162.0 | 1134.6 | 1074.4 |
| 20° | 1151.1 | 1159.3 | 1193.5 | 1229.1 | 1235.9 | 1235.9 | 1227.7 | 1212.7 | 1183.9 | 1147.0 | 1089.5 |
| 22.5° | 1166.1 | 1168.9 | 1225.0 | 1270.1 | 1277.0 | 1259.2 | 1266.0 | 1222.2 | 1194.9 | 1174.3 | 1104.5 |
| 25° | 1223.6 | 1218.1 | 1278.4 | 1313.9 | 1309.8 | 1292.0 | 1285.2 | 1246.9 | 1235.9 | 1199.0 | 1137.4 |
| 27.5° | 1301.6 | 1278.4 | 1337.2 | 1359.1 | 1337.2 | 1342.7 | 1323.5 | 1282.5 | 1259.2 | 1237.3 | 1152.4 |
| 30° | 1349.5 | 1363.2 | 1394.7 | 1416.6 | 1379.6 | 1381.0 | 1371.4 | 1326.3 | 1290.7 | 1296.1 | 1203.1 |
| 32.5° | 1423.4 | 1433.0 | 1456.3 | 1465.9 | 1437.1 | 1434.4 | 1424.8 | 1389.2 | 1363.2 | 1357.7 | 1271.5 |
| 35° | 1502.8 | 1520.6 | 1522.0 | 1524.7 | 1498.7 | 1509.7 | 1496.0 | 1445.3 | 1459.0 | 1468.6 | 1353.6 |
| 37.5° | 1580.8 | 1564.4 | 1591.8 | 1604.1 | 1575.4 | 1575.4 | 1579.5 | 1545.2 | 1569.9 | 1598.6 | 1470.0 |
| 40° | 1610.9 | 1617.8 | 1665.7 | 1656.1 | 1690.3 | 1669.8 | 1684.9 | 1676.6 | 1697.2 | 1762.9 | 1634.2 |
| 42.5° | 1642.4 | 1650.6 | 1715.0 | 1732.8 | 1773.8 | 1780.7 | 1802.6 | 1803.9 | 1864.2 | 1972.3 | 1791.6 |
| 45° | 1702.6 | 1689.0 | 1776.6 | 1820.4 | 1887.4 | 1906.6 | 1932.6 | 1954.5 | 2048.9 | 2176.2 | 1970.9 |
| 47.5° | 1757.4 | 1738.2 | 1838.1 | 1925.7 | 2007.9 | 2012.0 | 2083.1 | 2106.4 | 2218.6 | 2363.7 | 2148.8 |
| 50° | 1834.0 | 1840.9 | 1883.3 | 2033.9 | 2117.4 | 2165.3 | 2214.5 | 2291.2 | 2415.7 | 2570.4 | 2277.5 |
| 52.5° | 1913.4 | 1906.6 | 1977.8 | 2125.6 | 2257.0 | 2274.8 | 2385.6 | 2471.9 | 2607.4 | 2723.7 | 2335.0 |
| 55° | 2010.6 | 2018.8 | 2046.2 | 2240.5 | 2407.5 | 2450.0 | 2574.5 | 2664.8 | 2812.7 | 2789.4 | 2354.1 |
| 57.5° | 2107.8 | 2099.6 | 2161.2 | 2369.2 | 2596.4 | 2627.9 | 2793.5 | 2846.9 | 2946.8 | 2833.2 | 2306.2 |
| 60° | 2203.6 | 2218.6 | 2244.6 | 2514.3 | 2803.1 | 2849.6 | 2981.0 | 3008.4 | 3030.3 | 2853.7 | 2269.3 |
| 62.5° | 2313.1 | 2277.5 | 2358.2 | 2667.6 | 2989.2 | 3086.4 | 3190.4 | 3082.3 | 3063.1 | 2816.8 | 2184.4 |
| 65° | 2367.8 | 2378.8 | 2484.2 | 2842.8 | 3236.9 | 3308.1 | 3321.8 | 3182.2 | 3083.7 | 2734.6 | 2105.0 |
| 67.5° | 2452.7 | 2467.7 | 2601.9 | 3022.1 | 3491.5 | 3531.2 | 3481.9 | 3272.5 | 3065.9 | 2627.9 | 1819.0 |
| 70° | 2463.6 | 2500.6 | 2759.3 | 3209.6 | 3651.7 | 3685.9 | 3647.6 | 3332.8 | 2922.1 | 2207.7 | 1346.8 |
| 72.5° | 2406.2 | 2471.9 | 2797.6 | 3316.3 | 3785.8 | 3872.0 | 3657.1 | 3120.6 | 2355.5 | 1408.4 | 689.8 |
| 75° | 1817.6 | 1872.4 | 2560.8 | 3157.6 | 3547.6 | 3568.2 | 3210.9 | 2381.5 | 1341.3 | 480.4 | 176.6 |
| 77.5° | 941.7 | 1036.1 | 1709.5 | 2413.0 | 2703.2 | 2681.3 | 2235.1 | 1402.9 | 461.2 | 125.9 | 71.2 |
| 80° | 540.6 | 563.9 | 747.3 | 1355.0 | 1699.9 | 1616.4 | 1235.9 | 605.0 | 202.6 | 63.0 | 46.5 |
| 82.5° | 266.9 | 299.7 | 402.4 | 606.3 | 850.0 | 699.4 | 464.0 | 362.7 | 113.6 | 34.2 | 41.1 |
| 85° | 57.5 | 60.2 | 205.3 | 290.2 | 344.9 | 227.2 | 158.8 | 305.2 | 41.1 | 20.5 | 39.7 |
| 87.5° | 41.1 | 39.7 | 57.5 | 130.0 | 95.8 | 58.9 | 94.4 | 160.1 | 9.6 | 9.6 | 8.2 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 | 1055.3 |
| 2.5° | 1055.3 | 1042.9 | 1029.3 | 1003.2 | 996.4 | 992.3 | 969.0 | 967.7 | 963.6 | 954.0 | 949.9 |
| 5° | 1026.5 | 1006.0 | 980.0 | 952.6 | 930.7 | 891.0 | 843.1 | 818.5 | 788.4 | 789.7 | 780.2 |
| 7.5° | 1022.4 | 984.1 | 947.1 | 889.6 | 819.8 | 745.9 | 672.0 | 624.1 | 589.9 | 569.4 | 573.5 |
| 10° | 1003.2 | 974.5 | 914.3 | 807.5 | 695.3 | 583.1 | 488.6 | 417.4 | 376.4 | 344.9 | 354.5 |
| 12.5° | 1011.5 | 955.3 | 870.5 | 728.1 | 568.0 | 429.8 | 312.1 | 243.6 | 213.5 | 202.6 | 205.3 |
| 15° | 1006.0 | 955.3 | 844.5 | 641.9 | 446.2 | 291.5 | 202.6 | 180.7 | 175.2 | 175.2 | 172.5 |
| 17.5° | 1022.4 | 966.3 | 800.7 | 557.1 | 320.3 | 194.4 | 173.8 | 169.7 | 165.6 | 165.6 | 165.6 |
| 20° | 1045.7 | 971.8 | 770.6 | 462.6 | 225.8 | 171.1 | 162.9 | 160.1 | 158.8 | 158.8 | 157.4 |
| 22.5° | 1047.0 | 966.3 | 714.5 | 358.6 | 173.8 | 161.5 | 154.7 | 153.3 | 153.3 | 150.6 | 150.6 |
| 25° | 1055.3 | 971.8 | 654.2 | 269.6 | 161.5 | 151.9 | 146.4 | 145.1 | 146.4 | 145.1 | 143.7 |
| 27.5° | 1075.8 | 981.3 | 594.0 | 197.1 | 151.9 | 143.7 | 139.6 | 138.2 | 138.2 | 138.2 | 135.5 |
| 30° | 1101.8 | 981.3 | 526.9 | 162.9 | 143.7 | 135.5 | 131.4 | 130.0 | 128.7 | 128.7 | 128.7 |
| 32.5° | 1156.5 | 1012.8 | 444.8 | 145.1 | 132.8 | 125.9 | 121.8 | 121.8 | 120.4 | 120.4 | 119.1 |
| 35° | 1225.0 | 1034.7 | 361.3 | 134.1 | 123.2 | 116.3 | 112.2 | 112.2 | 110.9 | 110.9 | 109.5 |
| 37.5° | 1309.8 | 1089.5 | 276.5 | 125.9 | 113.6 | 106.8 | 102.7 | 102.7 | 102.7 | 101.3 | 101.3 |
| 40° | 1430.3 | 1145.6 | 205.3 | 115.0 | 104.0 | 97.2 | 94.4 | 93.1 | 91.7 | 91.7 | 89.0 |
| 42.5° | 1558.9 | 1231.8 | 153.3 | 106.8 | 95.8 | 90.3 | 86.2 | 82.1 | 82.1 | 78.0 | 78.0 |
| 45° | 1698.5 | 1307.1 | 124.6 | 97.2 | 87.6 | 80.8 | 76.6 | 73.9 | 69.8 | 67.1 | 67.1 |
| 47.5° | 1835.4 | 1353.6 | 109.5 | 86.2 | 79.4 | 73.9 | 69.8 | 64.3 | 58.9 | 57.5 | 56.1 |
| 50° | 1946.3 | 1367.3 | 97.2 | 78.0 | 72.5 | 67.1 | 61.6 | 54.7 | 49.3 | 46.5 | 45.2 |
| 52.5° | 1946.3 | 1292.0 | 87.6 | 69.8 | 65.7 | 60.2 | 53.4 | 45.2 | 38.3 | 35.6 | 34.2 |
| 55° | 1946.3 | 1173.0 | 78.0 | 64.3 | 58.9 | 54.7 | 45.2 | 37.0 | 30.1 | 26.0 | 24.6 |
| 57.5° | 1917.5 | 1029.3 | 69.8 | 57.5 | 52.0 | 46.5 | 38.3 | 28.7 | 21.9 | 17.8 | 17.8 |
| 60° | 1838.1 | 878.7 | 60.2 | 50.6 | 45.2 | 38.3 | 30.1 | 20.5 | 13.7 | 9.6 | 9.6 |
| 62.5° | 1736.9 | 699.4 | 52.0 | 42.4 | 37.0 | 31.5 | 23.3 | 13.7 | 5.5 | 2.7 | 2.7 |
| 65° | 1560.3 | 516.0 | 45.2 | 35.6 | 28.7 | 23.3 | 15.1 | 5.5 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1287.9 | 344.9 | 35.6 | 28.7 | 24.6 | 16.4 | 9.6 | 1.4 | 0.0 | 0.0 | 0.0 |
| 70° | 906.1 | 195.7 | 27.4 | 20.5 | 17.8 | 10.9 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 372.3 | 86.2 | 19.2 | 15.1 | 12.3 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 101.3 | 38.3 | 12.3 | 8.2 | 6.8 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 58.9 | 26.0 | 5.5 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 46.5 | 12.3 | 2.7 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 46.5 | 6.8 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 39.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.5 | 0.0 | 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 |

(END OF REPORT)