

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: P674493

Luminaire Tested: **CCP-SA-1C-850-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674493
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1C-850-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

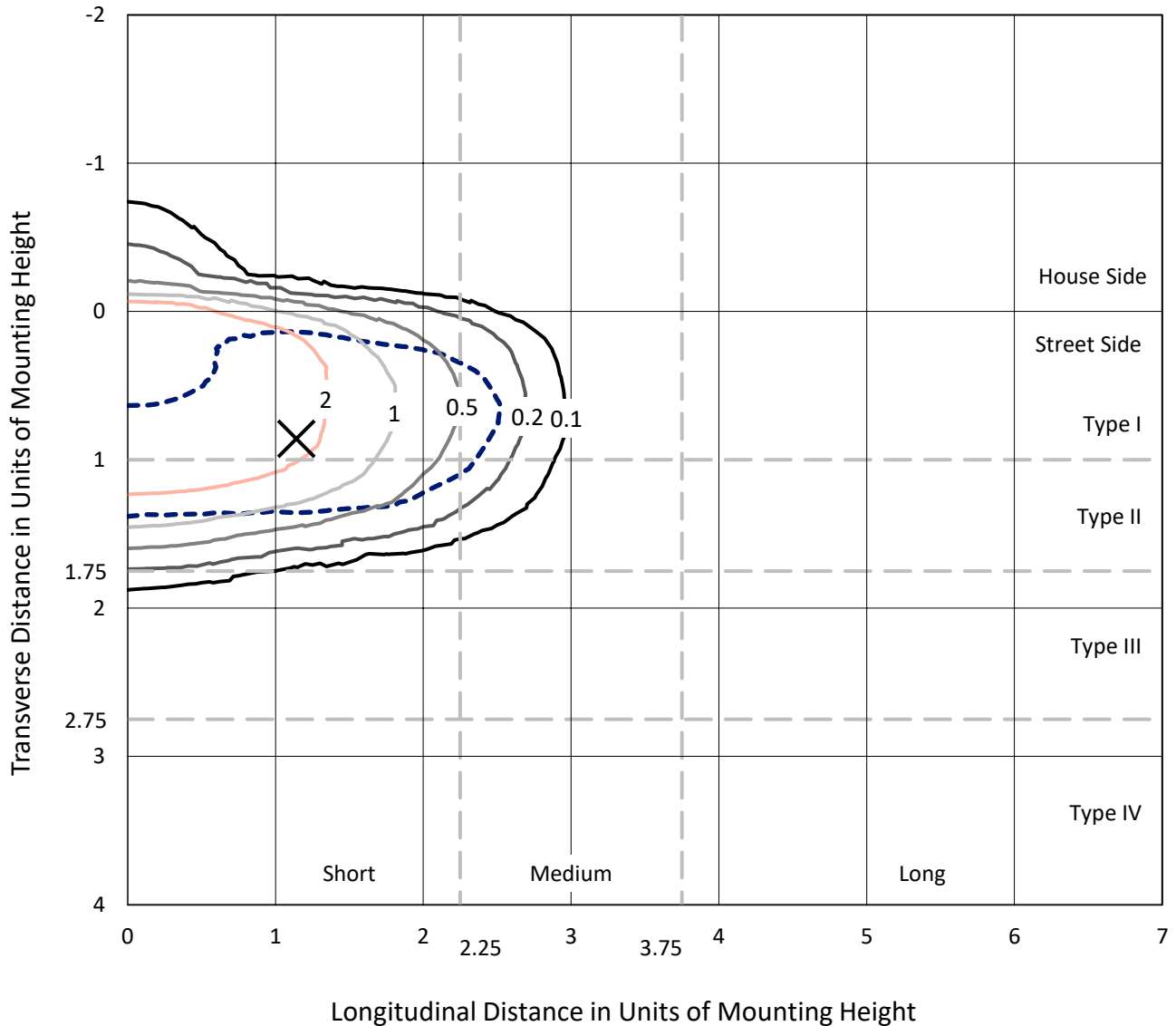
Lumens per Lamp: N/A
Luminaire Lumens: 3271.6 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 32
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

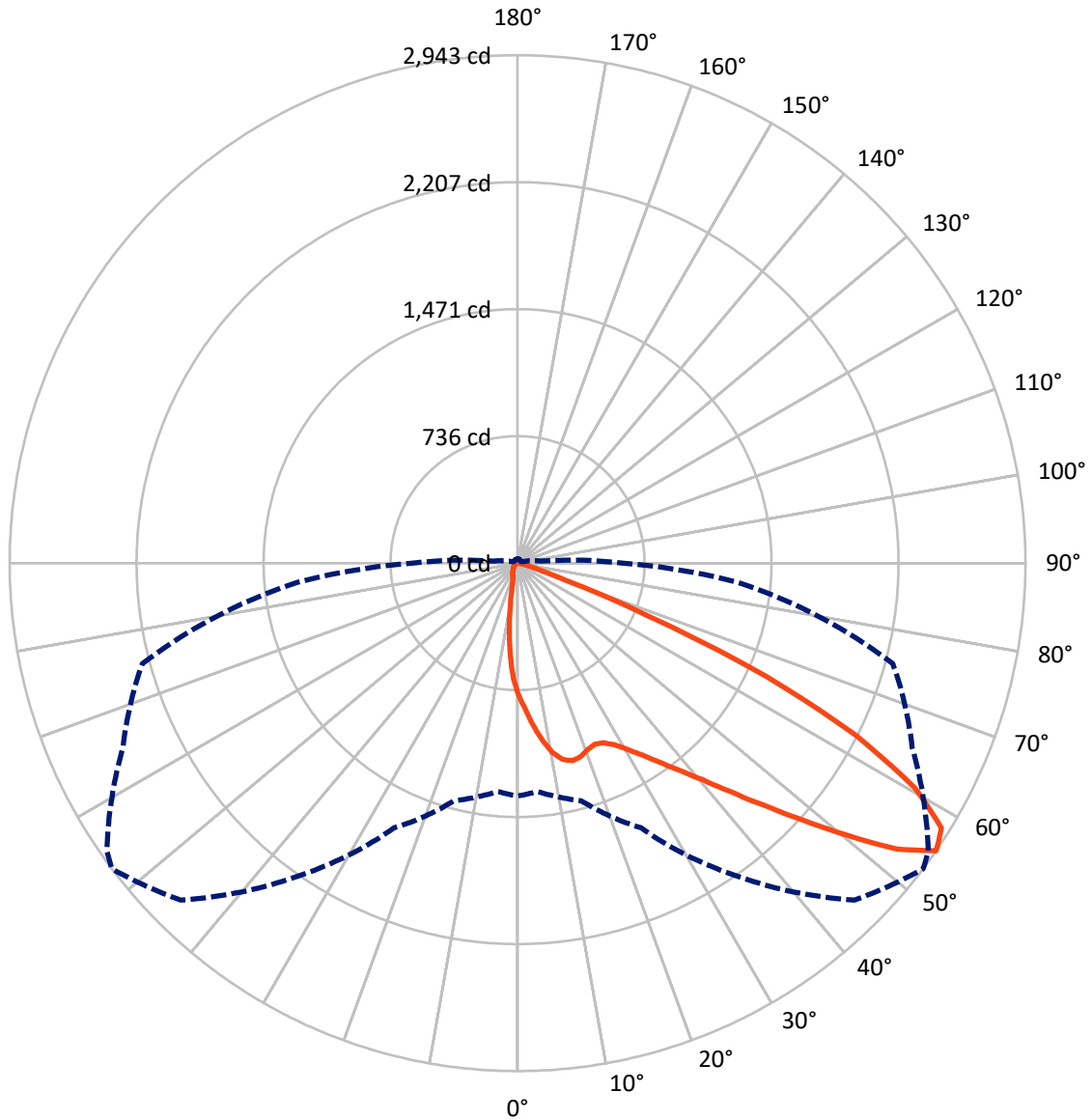
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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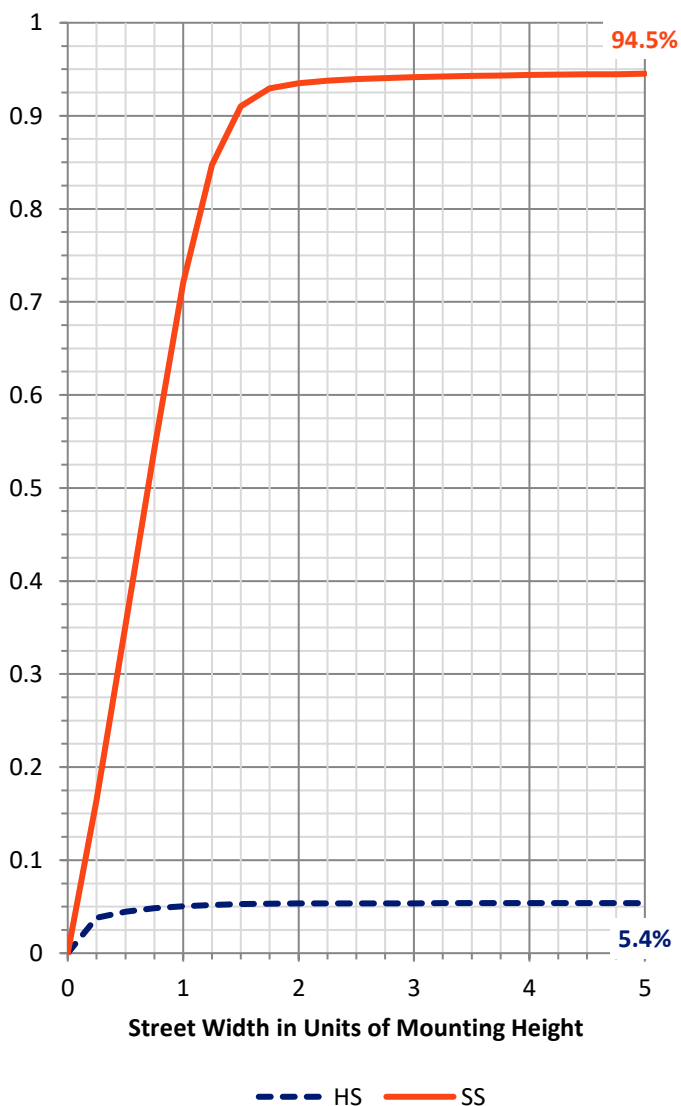
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 176.8 | 0.0 | 176.8 |
| | % Fixture | 5.4 | 0.0 | 5.4 |
| Street Side | Lumens | 3094.8 | 0.0 | 3094.8 |
| | % Fixture | 94.6 | 0.0 | 94.6 |
| Total | Lumens | 3271.6 | 0.0 | 3271.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.5 | 2.1 |
| 10°-20° | 178.9 | 5.5 |
| 20°-30° | 299.4 | 9.2 |
| 30°-40° | 489.8 | 15.0 |
| 40°-50° | 787.3 | 24.1 |
| 50°-60° | 888.9 | 27.2 |
| 60°-70° | 474.1 | 14.5 |
| 70°-80° | 77.9 | 2.4 |
| 80°-90° | 7.0 | 0.2 |
| 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° | 3271.6 | 100.0 |
| 0°-180° | 3271.6 | 100.0 |

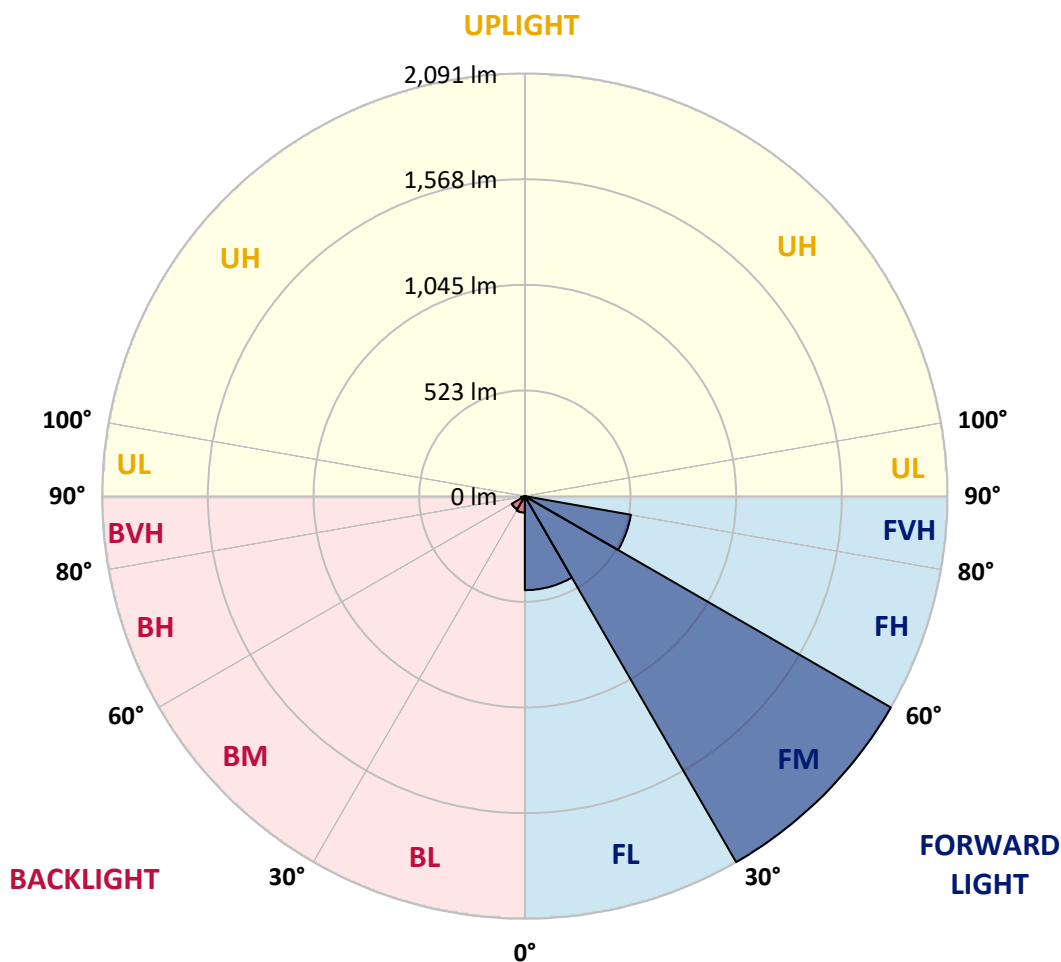


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 465.1 | 14.2 | | | |
| FM (30°-60°) | 2090.6 | 63.9 | | | |
| FH (60°-80°) | 532.7 | 16.3 | | | G0/660 |
| FVH (80°-90°) | 6.4 | 0.2 | | | G0/10 |
| BL (0°-30°) | 81.6 | 2.5 | B0/110 | | |
| BM (30°-60°) | 75.3 | 2.3 | B0/220 | | |
| BH (60°-80°) | 19.3 | 0.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 |
| 2.5° | 918.1 | 912.7 | 915.8 | 907.5 | 892.3 | 873.4 | 845.0 | 846.5 | 824.1 | 804.6 | 777.7 |
| 5° | 1069.8 | 1064.0 | 1062.3 | 1041.1 | 1019.9 | 985.8 | 943.6 | 936.8 | 895.8 | 846.2 | 789.7 |
| 7.5° | 1149.7 | 1144.9 | 1148.6 | 1140.9 | 1119.9 | 1089.0 | 1035.7 | 1030.5 | 967.2 | 892.1 | 808.9 |
| 10° | 1113.1 | 1111.3 | 1127.1 | 1145.4 | 1162.4 | 1158.6 | 1115.9 | 1107.9 | 1036.8 | 942.5 | 828.7 |
| 12.5° | 1014.4 | 1019.9 | 1040.0 | 1073.8 | 1126.0 | 1175.0 | 1168.1 | 1169.5 | 1107.9 | 997.3 | 850.5 |
| 15° | 956.5 | 963.1 | 974.6 | 992.1 | 1056.3 | 1143.4 | 1187.9 | 1202.2 | 1176.1 | 1058.3 | 876.3 |
| 17.5° | 951.7 | 957.1 | 958.8 | 965.4 | 1003.0 | 1092.7 | 1179.8 | 1207.1 | 1236.9 | 1115.9 | 905.2 |
| 20° | 989.2 | 991.5 | 990.1 | 985.2 | 998.7 | 1065.2 | 1154.6 | 1193.6 | 1287.1 | 1177.3 | 930.7 |
| 22.5° | 1060.0 | 1056.6 | 1052.3 | 1034.2 | 1033.4 | 1072.9 | 1140.9 | 1181.6 | 1316.9 | 1228.0 | 947.7 |
| 25° | 1147.7 | 1140.6 | 1134.6 | 1109.0 | 1097.0 | 1113.3 | 1153.2 | 1185.9 | 1343.8 | 1277.3 | 959.7 |
| 27.5° | 1243.5 | 1245.8 | 1230.9 | 1196.5 | 1177.6 | 1174.1 | 1191.3 | 1215.7 | 1369.9 | 1321.4 | 966.3 |
| 30° | 1345.8 | 1347.0 | 1327.5 | 1291.9 | 1274.7 | 1252.7 | 1251.5 | 1266.1 | 1398.0 | 1372.2 | 972.6 |
| 32.5° | 1462.5 | 1465.6 | 1433.8 | 1396.8 | 1366.7 | 1338.1 | 1324.0 | 1336.4 | 1448.4 | 1438.4 | 985.5 |
| 35° | 1631.0 | 1617.3 | 1574.3 | 1518.4 | 1475.7 | 1438.1 | 1416.6 | 1424.6 | 1515.5 | 1517.8 | 1011.3 |
| 37.5° | 1804.7 | 1803.3 | 1755.7 | 1675.2 | 1605.2 | 1558.5 | 1521.8 | 1535.0 | 1609.8 | 1624.2 | 1052.6 |
| 40° | 1966.7 | 1970.4 | 1929.1 | 1858.9 | 1768.9 | 1688.6 | 1649.4 | 1658.3 | 1735.1 | 1753.1 | 1102.7 |
| 42.5° | 2072.5 | 2070.5 | 2073.6 | 2053.6 | 1963.3 | 1868.7 | 1809.6 | 1814.5 | 1880.7 | 1890.2 | 1165.5 |
| 45° | 2121.2 | 2113.5 | 2140.4 | 2204.0 | 2168.2 | 2068.7 | 2001.4 | 1995.4 | 2031.8 | 2029.2 | 1222.6 |
| 47.5° | 2079.1 | 2064.7 | 2126.6 | 2280.0 | 2349.4 | 2319.3 | 2223.0 | 2212.1 | 2181.1 | 2160.5 | 1281.9 |
| 50° | 1869.5 | 1863.2 | 1995.6 | 2243.9 | 2463.2 | 2550.9 | 2480.1 | 2439.7 | 2314.4 | 2257.4 | 1313.1 |
| 52.5° | 1670.3 | 1652.8 | 1742.2 | 2059.6 | 2412.4 | 2737.2 | 2751.8 | 2679.9 | 2425.0 | 2285.2 | 1302.5 |
| 55° | 1349.3 | 1327.8 | 1425.2 | 1692.1 | 2211.5 | 2761.0 | 2942.7 | 2905.2 | 2521.9 | 2250.8 | 1281.0 |
| 57.5° | 819.5 | 798.3 | 941.6 | 1211.9 | 1768.6 | 2563.2 | 2895.7 | 2933.8 | 2596.5 | 2212.9 | 1267.0 |
| 60° | 344.6 | 331.1 | 387.3 | 578.5 | 1129.4 | 2106.6 | 2646.3 | 2741.5 | 2610.5 | 2161.0 | 1272.7 |
| 62.5° | 179.2 | 173.1 | 176.3 | 231.6 | 456.6 | 1387.1 | 2202.6 | 2368.3 | 2468.9 | 2138.1 | 1278.5 |
| 65° | 134.4 | 129.9 | 119.8 | 127.3 | 177.4 | 599.7 | 1582.9 | 1804.7 | 2161.9 | 2079.9 | 1239.8 |
| 67.5° | 110.4 | 106.1 | 98.9 | 96.6 | 104.6 | 208.1 | 808.1 | 1096.4 | 1694.1 | 1832.0 | 1101.0 |
| 70° | 88.0 | 86.6 | 84.3 | 80.0 | 78.5 | 100.9 | 289.8 | 446.9 | 1120.2 | 1291.9 | 798.0 |
| 72.5° | 73.4 | 73.7 | 71.1 | 67.4 | 62.2 | 65.1 | 115.5 | 152.8 | 542.1 | 619.4 | 334.2 |
| 75° | 61.3 | 61.3 | 62.2 | 57.0 | 51.9 | 44.7 | 64.2 | 74.5 | 174.0 | 143.0 | 71.4 |
| 77.5° | 48.2 | 48.7 | 52.5 | 48.2 | 41.6 | 28.1 | 35.0 | 39.8 | 51.6 | 41.3 | 26.1 |
| 80° | 38.4 | 37.8 | 36.4 | 43.3 | 37.3 | 19.8 | 16.6 | 18.3 | 24.1 | 19.8 | 12.9 |
| 82.5° | 26.9 | 26.7 | 25.5 | 29.2 | 29.0 | 14.6 | 10.9 | 11.2 | 14.6 | 12.6 | 8.0 |
| 85° | 6.6 | 7.7 | 16.3 | 13.8 | 12.0 | 8.6 | 6.6 | 7.2 | 9.5 | 8.3 | 4.3 |
| 87.5° | 2.9 | 2.9 | 7.5 | 8.9 | 5.7 | 3.7 | 2.9 | 3.2 | 4.9 | 4.9 | 2.6 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 | 765.6 |
| 2.5° | 768.2 | 749.6 | 726.1 | 701.1 | 675.6 | 645.0 | 625.5 | 609.4 | 596.8 | 587.1 | 583.6 |
| 5° | 771.1 | 735.3 | 681.9 | 615.7 | 548.4 | 485.3 | 436.6 | 400.4 | 370.6 | 354.3 | 347.1 |
| 7.5° | 770.8 | 723.2 | 626.9 | 516.0 | 406.5 | 315.6 | 251.1 | 211.3 | 184.6 | 173.7 | 167.1 |
| 10° | 770.5 | 707.4 | 564.1 | 405.3 | 271.7 | 182.9 | 134.7 | 112.4 | 102.6 | 98.9 | 98.3 |
| 12.5° | 778.8 | 689.4 | 493.9 | 298.4 | 170.6 | 113.8 | 93.7 | 88.6 | 86.3 | 85.1 | 84.8 |
| 15° | 783.4 | 672.8 | 419.9 | 210.7 | 114.9 | 90.0 | 83.7 | 81.4 | 80.5 | 80.0 | 79.7 |
| 17.5° | 788.3 | 647.0 | 349.7 | 152.5 | 92.0 | 81.7 | 78.0 | 76.5 | 76.0 | 76.0 | 76.0 |
| 20° | 789.1 | 619.2 | 280.1 | 112.4 | 81.7 | 76.2 | 72.5 | 71.1 | 70.2 | 69.7 | 69.7 |
| 22.5° | 782.8 | 586.2 | 220.1 | 91.2 | 75.7 | 71.1 | 67.1 | 64.8 | 63.3 | 63.1 | 63.1 |
| 25° | 767.1 | 539.5 | 168.8 | 80.0 | 70.8 | 65.9 | 61.1 | 58.5 | 57.3 | 57.3 | 57.3 |
| 27.5° | 744.4 | 484.4 | 130.4 | 71.1 | 64.5 | 59.6 | 55.3 | 53.0 | 52.7 | 52.5 | 52.7 |
| 30° | 718.6 | 431.4 | 99.8 | 63.1 | 57.0 | 53.0 | 49.6 | 48.4 | 49.0 | 49.0 | 49.3 |
| 32.5° | 692.8 | 378.4 | 78.0 | 56.8 | 50.5 | 47.0 | 45.3 | 45.3 | 46.2 | 46.2 | 46.2 |
| 35° | 670.8 | 326.5 | 65.4 | 51.6 | 45.9 | 43.0 | 42.1 | 43.0 | 43.6 | 43.9 | 43.9 |
| 37.5° | 658.4 | 281.8 | 57.6 | 47.0 | 42.1 | 39.8 | 39.6 | 40.4 | 41.6 | 42.4 | 42.7 |
| 40° | 653.8 | 247.4 | 53.0 | 43.6 | 38.7 | 37.3 | 37.0 | 38.1 | 40.1 | 41.6 | 41.9 |
| 42.5° | 654.1 | 217.0 | 49.0 | 40.1 | 36.4 | 34.4 | 34.4 | 36.1 | 38.1 | 39.6 | 39.6 |
| 45° | 656.1 | 190.9 | 45.0 | 36.7 | 34.4 | 31.0 | 31.2 | 33.5 | 35.0 | 36.4 | 36.4 |
| 47.5° | 657.9 | 170.0 | 40.7 | 33.0 | 29.8 | 28.1 | 28.7 | 30.4 | 32.4 | 34.7 | 34.7 |
| 50° | 647.8 | 155.1 | 36.4 | 29.0 | 26.1 | 25.5 | 26.7 | 28.1 | 31.0 | 33.3 | 33.5 |
| 52.5° | 623.7 | 141.6 | 32.7 | 25.8 | 23.5 | 23.8 | 25.2 | 26.1 | 28.4 | 28.7 | 29.0 |
| 55° | 613.1 | 134.7 | 29.8 | 23.5 | 21.5 | 22.4 | 23.2 | 23.5 | 22.9 | 21.5 | 21.5 |
| 57.5° | 610.8 | 130.1 | 26.9 | 21.2 | 19.8 | 20.9 | 20.6 | 18.9 | 17.2 | 15.5 | 15.2 |
| 60° | 613.1 | 123.8 | 24.7 | 18.3 | 18.1 | 18.3 | 17.5 | 14.3 | 12.0 | 10.9 | 10.3 |
| 62.5° | 600.0 | 114.7 | 22.6 | 15.8 | 15.8 | 15.5 | 13.2 | 9.7 | 7.7 | 6.9 | 6.6 |
| 65° | 556.4 | 96.6 | 20.6 | 13.2 | 12.9 | 12.3 | 8.9 | 6.6 | 5.2 | 4.3 | 4.0 |
| 67.5° | 470.7 | 74.8 | 18.6 | 10.9 | 10.3 | 8.6 | 5.7 | 4.3 | 2.9 | 2.6 | 2.3 |
| 70° | 321.0 | 46.4 | 15.8 | 8.6 | 7.7 | 5.4 | 3.4 | 2.6 | 1.7 | 1.4 | 1.1 |
| 72.5° | 116.4 | 26.9 | 13.2 | 6.6 | 5.2 | 3.4 | 2.0 | 1.1 | 0.9 | 0.9 | 0.6 |
| 75° | 27.5 | 18.9 | 10.0 | 4.9 | 3.4 | 2.0 | 1.1 | 0.9 | 0.6 | 0.6 | 0.3 |
| 77.5° | 12.6 | 14.6 | 6.6 | 2.9 | 2.3 | 1.4 | 0.9 | 0.6 | 0.3 | 0.3 | 0.0 |
| 80° | 7.2 | 10.3 | 3.2 | 2.0 | 1.7 | 1.1 | 0.6 | 0.3 | 0.3 | 0.0 | 0.0 |
| 82.5° | 3.7 | 5.7 | 2.3 | 1.7 | 1.4 | 0.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.6 | 2.9 | 1.7 | 1.4 | 1.1 | 0.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.0 | 2.0 | 1.7 | 1.4 | 1.1 | 0.9 | 0.3 | 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)