

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: P675309

Luminaire Tested: **CCW-SA-2E-827-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675309
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-827-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T4W distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

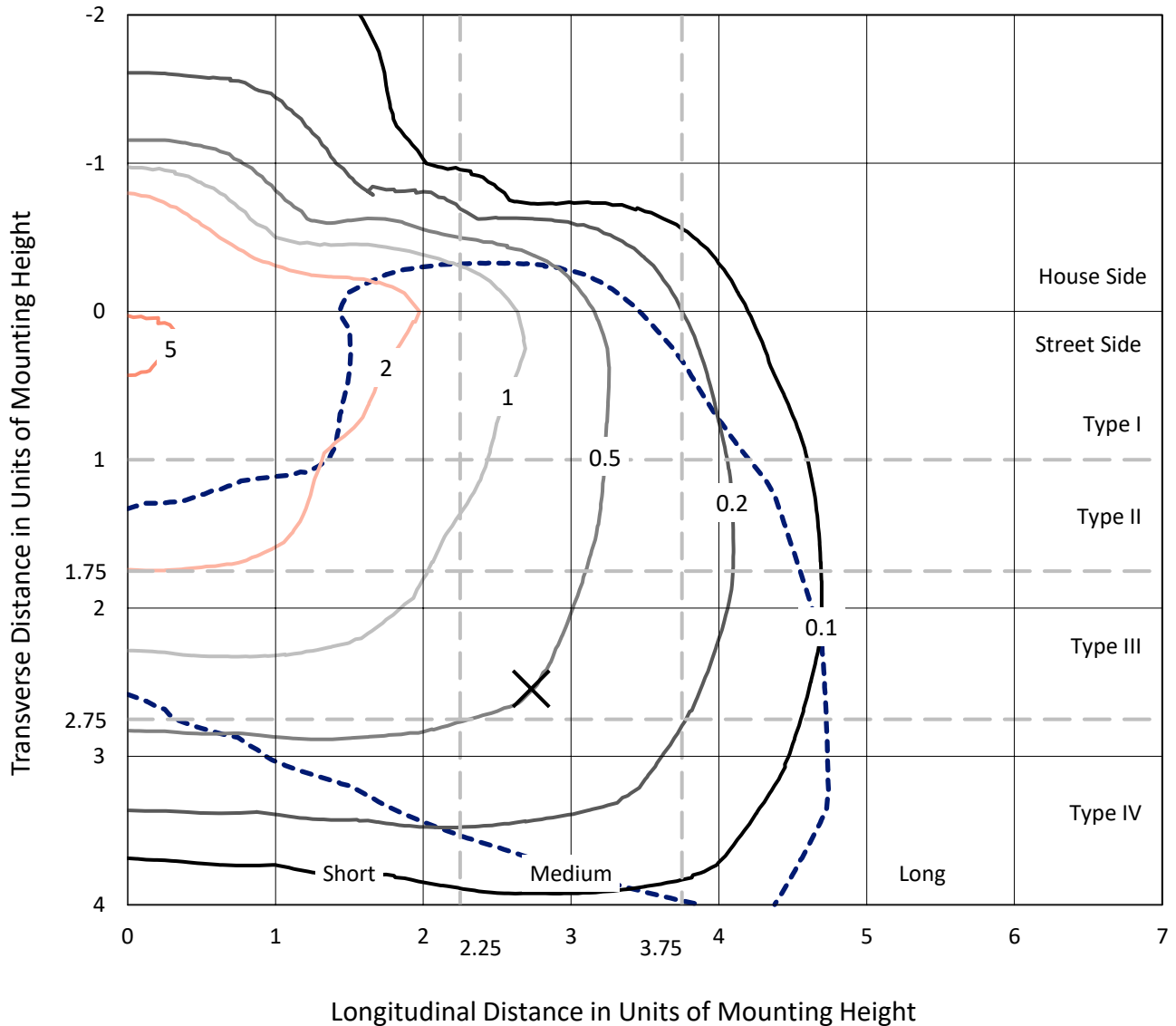
Lumens per Lamp: N/A
Luminaire Lumens: 10139.8 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6
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

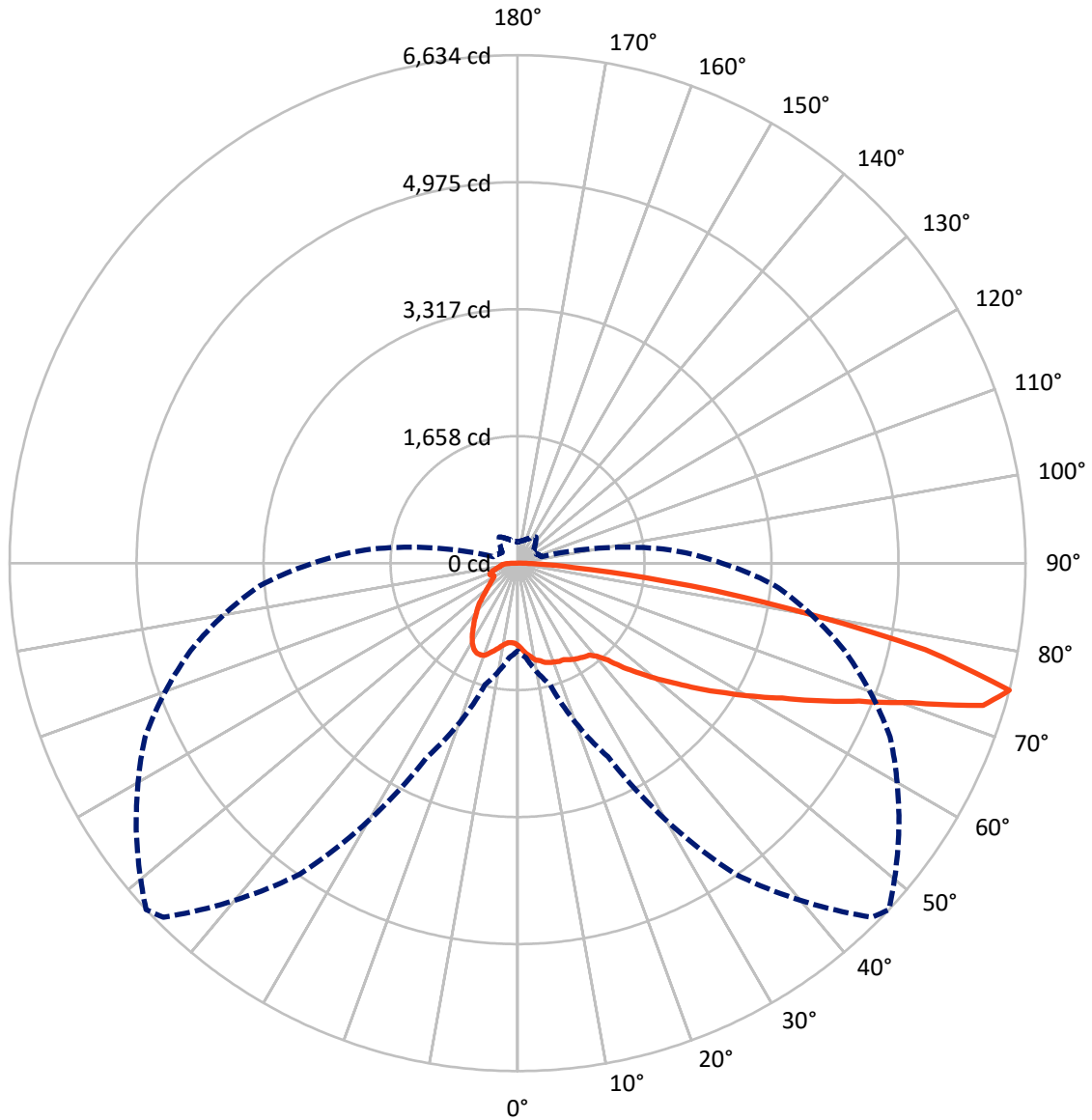
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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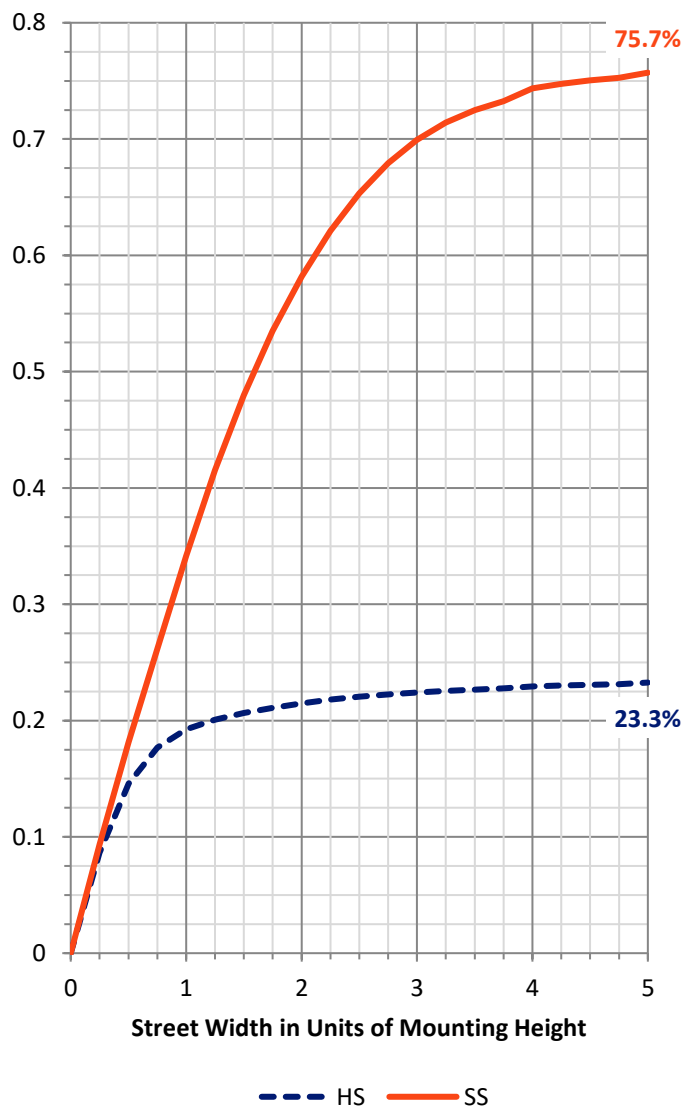
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2424.9 | 0.0 | 2424.9 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 7714.9 | 0.0 | 7714.9 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 10139.8 | 0.0 | 10139.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 108.8 | 1.1 |
| 10°-20° | 361.4 | 3.6 |
| 20°-30° | 619.1 | 6.1 |
| 30°-40° | 866.2 | 8.5 |
| 40°-50° | 1207.8 | 11.9 |
| 50°-60° | 1805.3 | 17.8 |
| 60°-70° | 2602.8 | 25.7 |
| 70°-80° | 2215.5 | 21.8 |
| 80°-90° | 352.9 | 3.5 |
| 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° | 10139.8 | 100.0 |
| 0°-180° | 10139.8 | 100.0 |



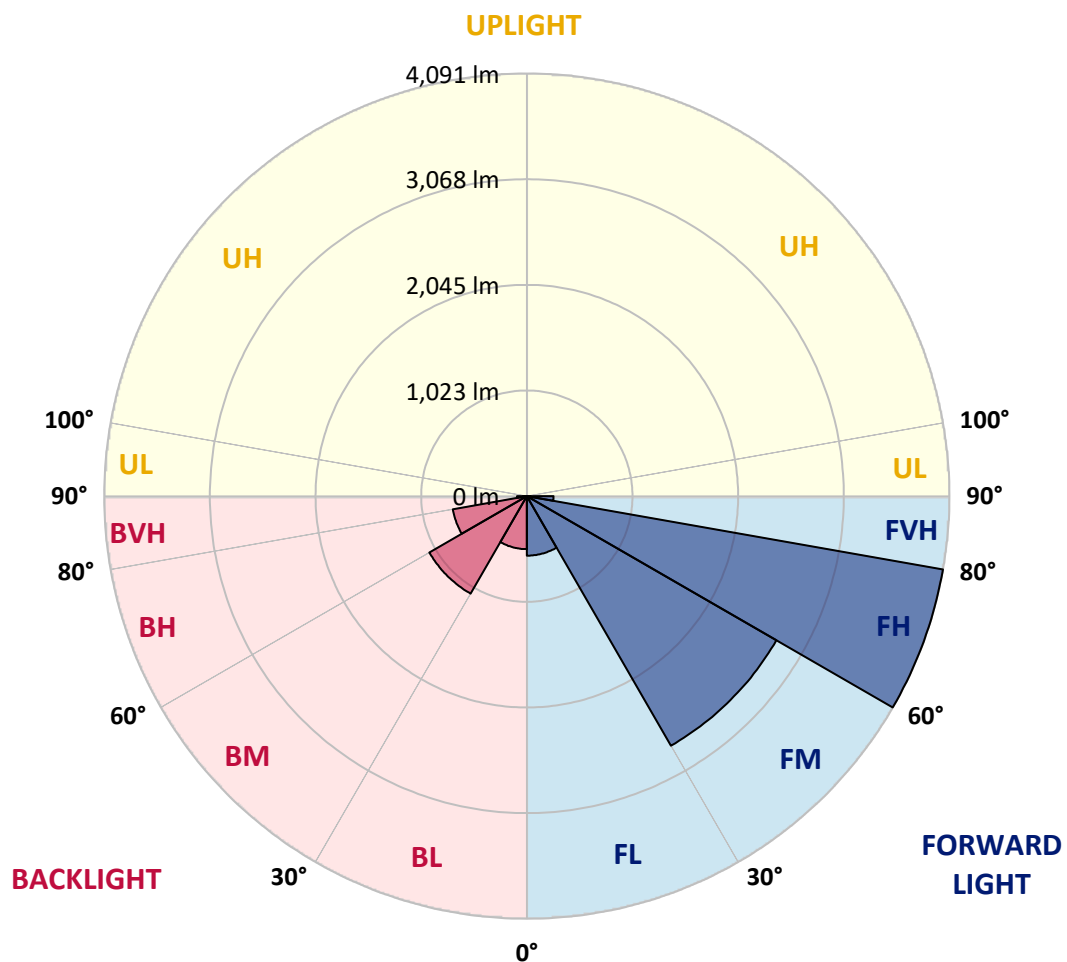
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 576.1 | 5.7 | | | |
| FM (30°-60°) | 2789.4 | 27.5 | | | |
| FH (60°-80°) | 4090.8 | 40.3 | | | G2/5000 |
| FVH (80°-90°) | 258.6 | 2.6 | | | G3/500 |
| BL (0°-30°) | 513.2 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1089.9 | 10.7 | B2/2500 | | |
| BH (60°-80°) | 727.5 | 7.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 94.3 | 0.9 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 |
| 2.5° | 1154.3 | 1158.0 | 1158.0 | 1150.6 | 1143.2 | 1128.4 | 1128.4 | 1113.6 | 1106.2 | 1087.7 | 1080.3 |
| 5° | 1261.6 | 1250.5 | 1239.4 | 1235.7 | 1217.2 | 1191.3 | 1187.6 | 1172.8 | 1132.1 | 1113.6 | 1087.7 |
| 7.5° | 1339.3 | 1335.6 | 1331.9 | 1317.1 | 1283.8 | 1243.1 | 1232.0 | 1209.8 | 1169.1 | 1132.1 | 1102.5 |
| 10° | 1402.2 | 1417.0 | 1402.2 | 1368.9 | 1335.6 | 1291.2 | 1287.5 | 1246.8 | 1209.8 | 1165.4 | 1128.4 |
| 12.5° | 1472.5 | 1476.2 | 1450.3 | 1409.6 | 1357.8 | 1320.8 | 1306.0 | 1291.2 | 1250.5 | 1213.5 | 1158.0 |
| 15° | 1520.6 | 1513.2 | 1494.7 | 1439.2 | 1380.0 | 1343.0 | 1346.7 | 1328.2 | 1283.8 | 1257.9 | 1198.7 |
| 17.5° | 1520.6 | 1520.6 | 1491.0 | 1450.3 | 1398.5 | 1365.2 | 1365.2 | 1354.1 | 1324.5 | 1287.5 | 1246.8 |
| 20° | 1491.0 | 1491.0 | 1472.5 | 1450.3 | 1391.1 | 1383.7 | 1376.3 | 1368.9 | 1368.9 | 1335.6 | 1276.4 |
| 22.5° | 1454.0 | 1446.6 | 1454.0 | 1417.0 | 1376.3 | 1383.7 | 1394.8 | 1391.1 | 1380.0 | 1350.4 | 1309.7 |
| 25° | 1417.0 | 1420.7 | 1428.1 | 1402.2 | 1365.2 | 1398.5 | 1394.8 | 1413.3 | 1405.9 | 1383.7 | 1350.4 |
| 27.5° | 1413.3 | 1420.7 | 1424.4 | 1398.5 | 1383.7 | 1413.3 | 1428.1 | 1446.6 | 1450.3 | 1428.1 | 1387.4 |
| 30° | 1468.8 | 1465.1 | 1461.4 | 1428.1 | 1417.0 | 1442.9 | 1457.7 | 1483.6 | 1505.8 | 1457.7 | 1424.4 |
| 32.5° | 1613.1 | 1590.9 | 1568.7 | 1479.9 | 1446.6 | 1465.1 | 1479.9 | 1516.9 | 1520.6 | 1494.7 | 1446.6 |
| 35° | 1842.5 | 1827.7 | 1753.7 | 1598.3 | 1505.8 | 1487.3 | 1502.1 | 1528.0 | 1535.4 | 1516.9 | 1479.9 |
| 37.5° | 2105.2 | 2097.8 | 1994.2 | 1805.5 | 1627.9 | 1539.1 | 1524.3 | 1561.3 | 1590.9 | 1550.2 | 1498.4 |
| 40° | 2364.1 | 2334.5 | 2260.5 | 2075.6 | 1783.3 | 1616.8 | 1598.3 | 1616.8 | 1627.9 | 1598.3 | 1565.0 |
| 42.5° | 2597.2 | 2563.9 | 2545.4 | 2360.4 | 1986.8 | 1746.3 | 1731.5 | 1687.1 | 1720.4 | 1683.4 | 1639.0 |
| 45° | 2793.3 | 2785.9 | 2778.5 | 2619.4 | 2219.9 | 1957.2 | 1946.1 | 1831.4 | 1868.4 | 1838.8 | 1775.9 |
| 47.5° | 2933.9 | 2967.2 | 2956.1 | 2867.3 | 2486.2 | 2182.9 | 2149.6 | 2001.6 | 2057.1 | 2027.5 | 1964.6 |
| 50° | 3100.4 | 3118.9 | 3107.8 | 3048.6 | 2734.1 | 2441.8 | 2378.9 | 2227.3 | 2290.1 | 2286.4 | 2253.1 |
| 52.5° | 3248.4 | 3303.9 | 3241.0 | 3237.3 | 3089.3 | 2723.0 | 2615.7 | 2471.4 | 2575.0 | 2615.7 | 2612.0 |
| 55° | 3422.3 | 3466.7 | 3448.2 | 3440.8 | 3407.5 | 2996.8 | 2900.6 | 2726.7 | 2900.6 | 2959.8 | 3011.6 |
| 57.5° | 3570.3 | 3566.6 | 3636.9 | 3721.9 | 3762.6 | 3311.3 | 3196.6 | 2993.1 | 3255.8 | 3322.4 | 3466.7 |
| 60° | 3636.9 | 3699.8 | 3818.1 | 4032.7 | 4147.4 | 3648.0 | 3529.6 | 3366.8 | 3614.7 | 3666.5 | 3932.8 |
| 62.5° | 3681.3 | 3736.7 | 3966.1 | 4328.7 | 4395.3 | 3992.0 | 3881.0 | 3718.2 | 4006.8 | 4043.8 | 4439.7 |
| 65° | 3559.2 | 3611.0 | 4066.0 | 4439.7 | 4676.5 | 4362.0 | 4336.1 | 4165.9 | 4399.0 | 4421.2 | 4972.5 |
| 67.5° | 3418.6 | 3474.1 | 3980.9 | 4580.3 | 5050.2 | 4854.1 | 4813.4 | 4609.9 | 4787.5 | 4761.6 | 5379.4 |
| 70° | 3170.7 | 3244.7 | 3762.6 | 4702.4 | 5464.5 | 5542.2 | 5460.8 | 5172.3 | 5190.8 | 4946.6 | 5397.9 |
| 72.5° | 2415.9 | 2464.0 | 2945.0 | 4217.7 | 5656.9 | 6496.8 | 6356.2 | 5779.0 | 5568.1 | 4983.6 | 4765.3 |
| 75° | 1146.9 | 1235.7 | 1642.7 | 2789.6 | 4957.7 | 6541.2 | 6633.7 | 6078.7 | 5368.3 | 4421.2 | 3377.9 |
| 77.5° | 333.0 | 333.0 | 499.5 | 1183.9 | 3107.8 | 5272.1 | 5446.0 | 5161.2 | 4428.6 | 3274.3 | 1775.9 |
| 80° | 181.3 | 192.4 | 262.7 | 418.1 | 1365.2 | 3326.1 | 3577.7 | 3422.3 | 2608.3 | 1294.9 | 458.8 |
| 82.5° | 103.6 | 107.3 | 173.9 | 251.6 | 621.6 | 1809.2 | 1957.2 | 1775.9 | 991.5 | 392.2 | 214.6 |
| 85° | 59.2 | 62.9 | 99.9 | 166.5 | 370.0 | 666.0 | 725.2 | 629.0 | 399.6 | 262.7 | 107.3 |
| 87.5° | 29.6 | 29.6 | 48.1 | 77.7 | 188.7 | 188.7 | 185.0 | 225.7 | 240.5 | 159.1 | 48.1 |
| 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° | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 | 1076.6 |
| 2.5° | 1076.6 | 1072.9 | 1072.9 | 1058.1 | 1054.4 | 1043.3 | 1043.3 | 1035.9 | 1032.2 | 1043.3 | 1043.3 |
| 5° | 1080.3 | 1061.8 | 1058.1 | 1043.3 | 1047.0 | 1039.6 | 1054.4 | 1047.0 | 1043.3 | 1043.3 | 1039.6 |
| 7.5° | 1087.7 | 1069.2 | 1054.4 | 1043.3 | 1039.6 | 1050.7 | 1069.2 | 1069.2 | 1091.4 | 1080.3 | 1080.3 |
| 10° | 1106.2 | 1095.1 | 1076.6 | 1069.2 | 1069.2 | 1080.3 | 1102.5 | 1117.3 | 1135.8 | 1135.8 | 1124.7 |
| 12.5° | 1150.6 | 1132.1 | 1109.9 | 1098.8 | 1113.6 | 1124.7 | 1146.9 | 1161.7 | 1183.9 | 1191.3 | 1183.9 |
| 15° | 1183.9 | 1165.4 | 1158.0 | 1150.6 | 1161.7 | 1176.5 | 1195.0 | 1209.8 | 1235.7 | 1243.1 | 1239.4 |
| 17.5° | 1228.3 | 1206.1 | 1202.4 | 1206.1 | 1213.5 | 1224.6 | 1235.7 | 1246.8 | 1265.3 | 1265.3 | 1265.3 |
| 20° | 1250.5 | 1243.1 | 1239.4 | 1250.5 | 1265.3 | 1280.1 | 1272.7 | 1265.3 | 1261.6 | 1269.0 | 1265.3 |
| 22.5° | 1291.2 | 1283.8 | 1287.5 | 1298.6 | 1298.6 | 1291.2 | 1280.1 | 1254.2 | 1246.8 | 1254.2 | 1246.8 |
| 25° | 1328.2 | 1320.8 | 1320.8 | 1313.4 | 1309.7 | 1283.8 | 1261.6 | 1239.4 | 1213.5 | 1224.6 | 1220.9 |
| 27.5° | 1365.2 | 1361.5 | 1361.5 | 1331.9 | 1294.9 | 1250.5 | 1220.9 | 1195.0 | 1180.2 | 1198.7 | 1187.6 |
| 30° | 1409.6 | 1413.3 | 1394.8 | 1324.5 | 1235.7 | 1187.6 | 1154.3 | 1150.6 | 1146.9 | 1158.0 | 1154.3 |
| 32.5° | 1450.3 | 1454.0 | 1424.4 | 1313.4 | 1191.3 | 1098.8 | 1065.5 | 1069.2 | 1087.7 | 1106.2 | 1124.7 |
| 35° | 1472.5 | 1491.0 | 1454.0 | 1276.4 | 1102.5 | 998.9 | 961.9 | 995.2 | 1028.5 | 1054.4 | 1072.9 |
| 37.5° | 1513.2 | 1561.3 | 1498.4 | 1235.7 | 1024.8 | 910.1 | 884.2 | 895.3 | 936.0 | 976.7 | 995.2 |
| 40° | 1572.4 | 1627.9 | 1509.5 | 1158.0 | 921.2 | 821.3 | 806.5 | 810.2 | 825.0 | 850.9 | 869.4 |
| 42.5° | 1676.0 | 1735.2 | 1520.6 | 1058.1 | 817.6 | 765.8 | 725.2 | 714.1 | 703.0 | 703.0 | 699.3 |
| 45° | 1827.7 | 1883.2 | 1505.8 | 932.3 | 714.1 | 677.1 | 647.5 | 621.6 | 592.0 | 543.9 | 551.3 |
| 47.5° | 2049.7 | 2094.1 | 1516.9 | 821.3 | 617.9 | 588.3 | 566.1 | 536.5 | 492.1 | 440.3 | 436.6 |
| 50° | 2386.3 | 2319.7 | 1502.1 | 706.7 | 547.6 | 521.7 | 503.2 | 462.5 | 410.7 | 373.7 | 370.0 |
| 52.5° | 2778.5 | 2645.3 | 1487.3 | 610.5 | 488.4 | 466.2 | 451.4 | 407.0 | 358.9 | 340.4 | 336.7 |
| 55° | 3252.1 | 3059.7 | 1509.5 | 525.4 | 444.0 | 425.5 | 410.7 | 370.0 | 333.0 | 318.2 | 314.5 |
| 57.5° | 3810.7 | 3507.4 | 1631.6 | 458.8 | 395.9 | 388.5 | 384.8 | 351.5 | 318.2 | 307.1 | 303.4 |
| 60° | 4336.1 | 3936.5 | 1713.0 | 410.7 | 351.5 | 358.9 | 366.3 | 351.5 | 314.5 | 307.1 | 307.1 |
| 62.5° | 4776.4 | 4291.7 | 1583.5 | 370.0 | 329.3 | 351.5 | 384.8 | 373.7 | 358.9 | 366.3 | 358.9 |
| 65° | 5164.9 | 4413.8 | 1183.9 | 347.8 | 318.2 | 370.0 | 425.5 | 421.8 | 388.5 | 395.9 | 392.2 |
| 67.5° | 5231.4 | 4265.8 | 773.2 | 329.3 | 310.8 | 407.0 | 477.3 | 432.9 | 366.3 | 366.3 | 355.2 |
| 70° | 4954.0 | 3869.9 | 518.0 | 310.8 | 307.1 | 407.0 | 488.4 | 407.0 | 344.1 | 344.1 | 329.3 |
| 72.5° | 4066.0 | 3093.0 | 399.6 | 292.3 | 281.2 | 362.6 | 462.5 | 384.8 | 321.9 | 314.5 | 288.6 |
| 75° | 2671.2 | 1994.2 | 325.6 | 277.5 | 244.2 | 318.2 | 418.1 | 355.2 | 307.1 | 284.9 | 273.8 |
| 77.5° | 1309.7 | 895.3 | 273.8 | 244.2 | 210.9 | 277.5 | 381.1 | 336.7 | 288.6 | 266.4 | 259.0 |
| 80° | 358.9 | 321.9 | 229.4 | 214.6 | 177.6 | 240.5 | 358.9 | 321.9 | 270.1 | 247.9 | 236.8 |
| 82.5° | 203.5 | 199.8 | 185.0 | 173.9 | 148.0 | 240.5 | 362.6 | 321.9 | 255.3 | 251.6 | 214.6 |
| 85° | 111.0 | 118.4 | 133.2 | 129.5 | 114.7 | 214.6 | 344.1 | 281.2 | 207.2 | 173.9 | 173.9 |
| 87.5° | 44.4 | 55.5 | 66.6 | 74.0 | 77.7 | 159.1 | 259.0 | 214.6 | 159.1 | 133.2 | 133.2 |
| 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)