

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: P677124

Luminaire Tested: **CCW-SA-2C-730-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677124
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-730-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

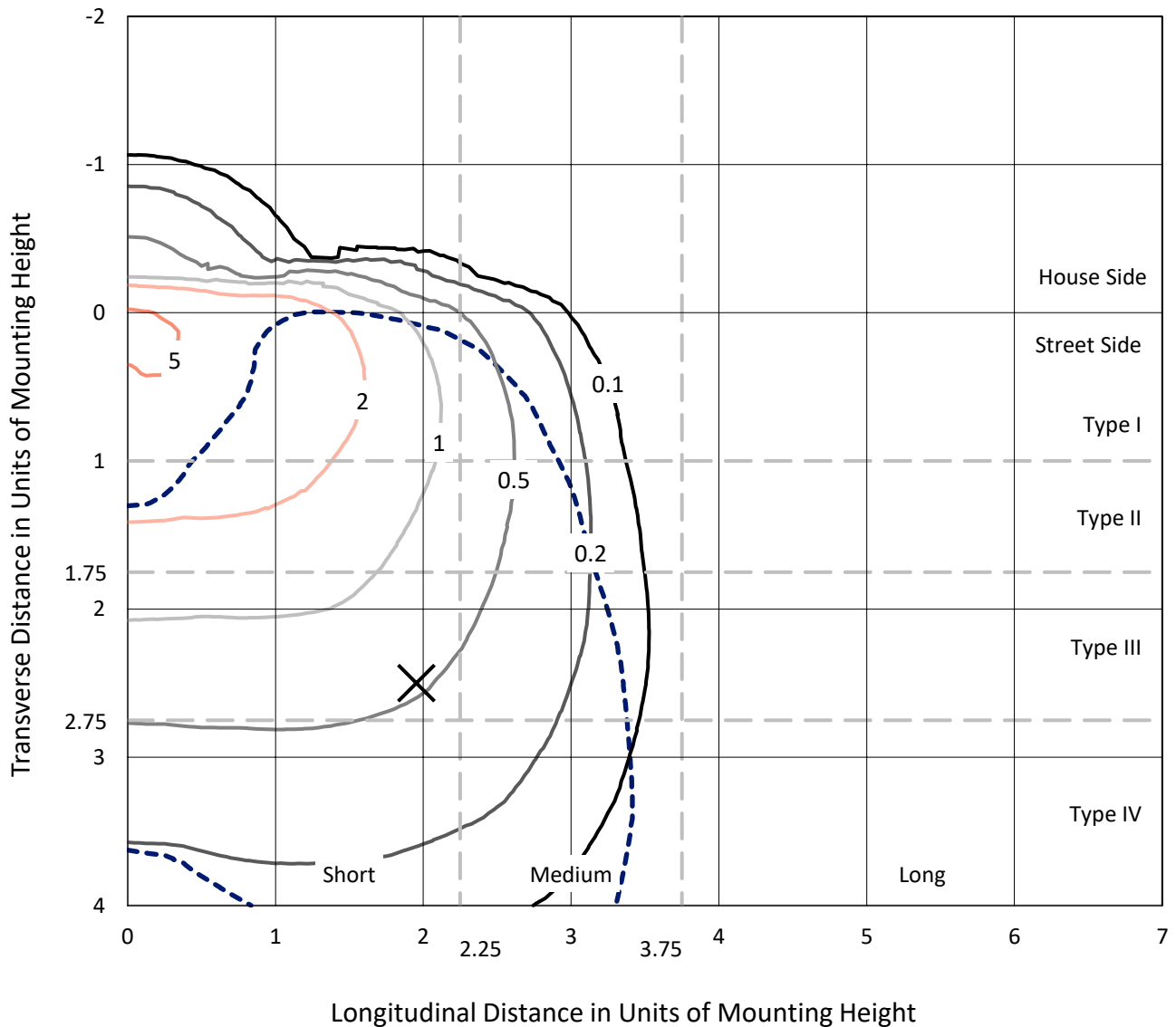
Lumens per Lamp: N/A
Luminaire Lumens: 6800.9 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
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

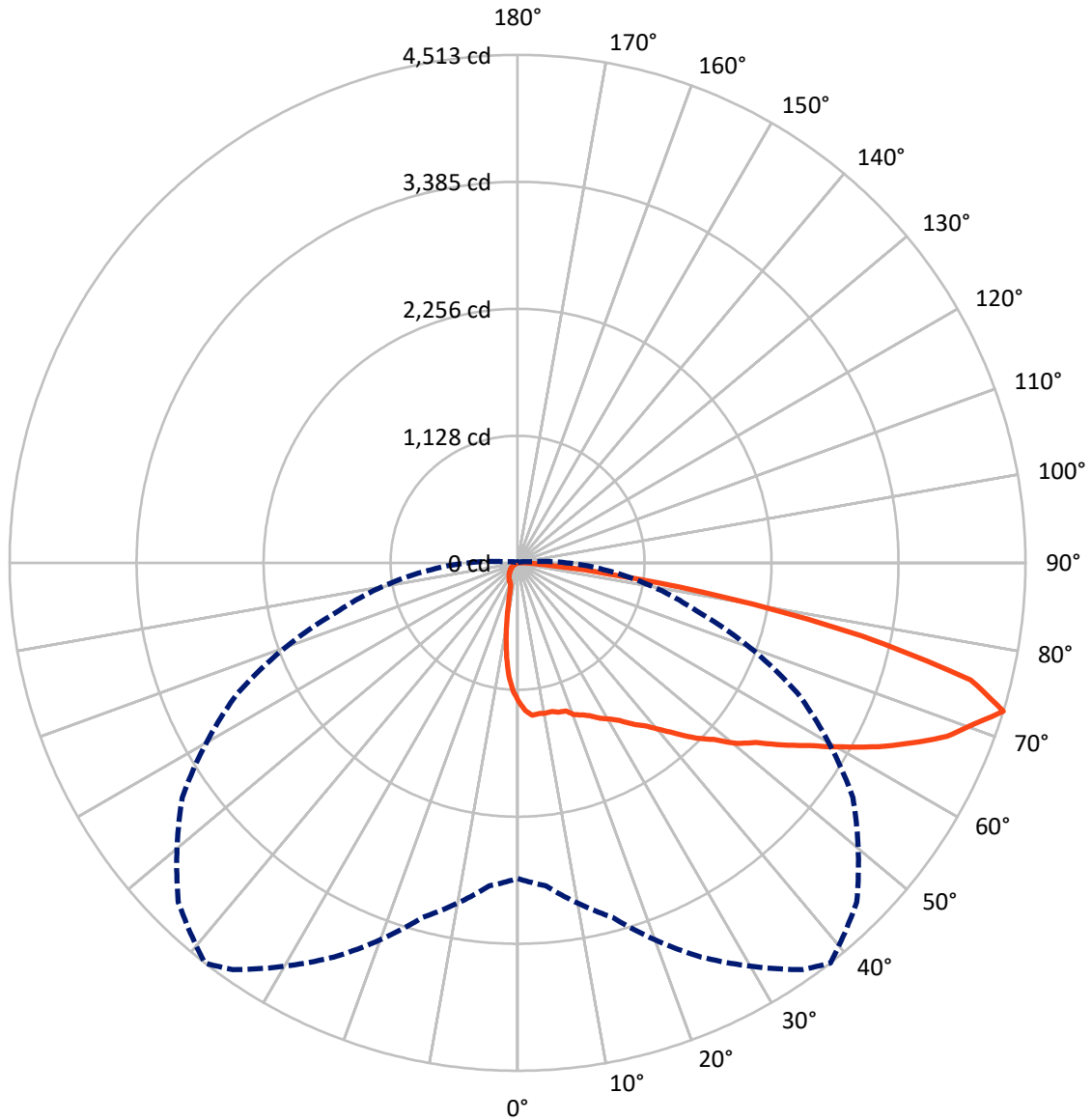
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 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 | 569.6 | 0.0 | 569.6 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 6231.3 | 0.0 | 6231.3 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 6800.9 | 0.0 | 6800.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.6 | 1.6 |
| 10°-20° | 263.6 | 3.9 |
| 20°-30° | 422.5 | 6.2 |
| 30°-40° | 637.9 | 9.4 |
| 40°-50° | 970.9 | 14.3 |
| 50°-60° | 1366.9 | 20.1 |
| 60°-70° | 1669.7 | 24.6 |
| 70°-80° | 1212.4 | 17.8 |
| 80°-90° | 149.3 | 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° | 6800.9 | 100.0 |
| 0°-180° | 6800.9 | 100.0 |

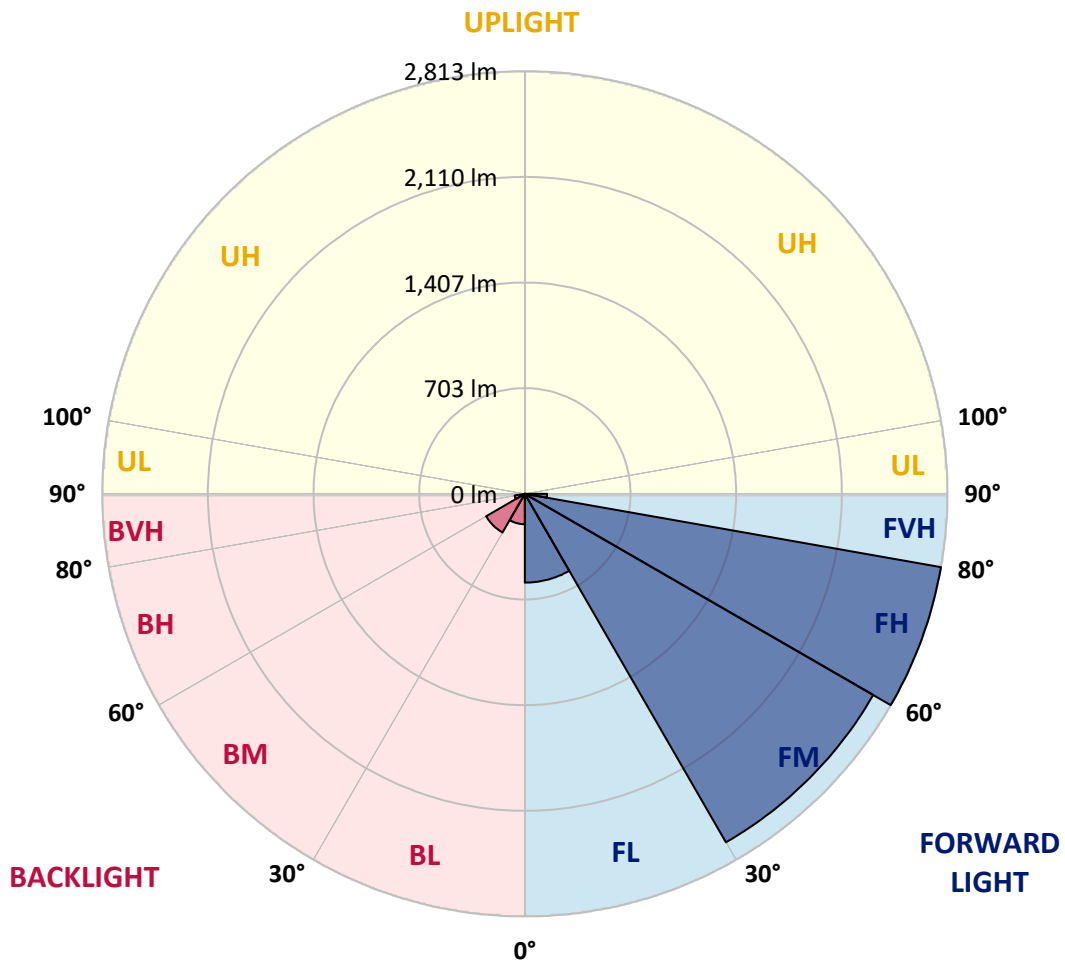


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 591.5 | 8.7 | | | |
| FM (30°-60°) | 2678.2 | 39.4 | | | |
| FH (60°-80°) | 2813.0 | 41.4 | | | G2/5000 |
| FVH (80°-90°) | 148.5 | 2.2 | | | G2/225 |
| BL (0°-30°) | 202.2 | 3.0 | B1/500 | | |
| BM (30°-60°) | 297.5 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 69.1 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.8 | 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° | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 |
| 2.5° | 1351.1 | 1351.1 | 1363.9 | 1351.1 | 1346.3 | 1316.0 | 1317.6 | 1301.6 | 1285.7 | 1263.4 | 1242.6 |
| 5° | 1367.0 | 1378.2 | 1386.2 | 1375.0 | 1357.5 | 1360.7 | 1371.8 | 1341.5 | 1298.5 | 1271.3 | 1225.1 |
| 7.5° | 1360.7 | 1384.6 | 1378.2 | 1371.8 | 1360.7 | 1352.7 | 1336.7 | 1324.0 | 1303.2 | 1277.7 | 1223.5 |
| 10° | 1355.9 | 1363.9 | 1365.4 | 1360.7 | 1336.7 | 1359.1 | 1341.5 | 1320.8 | 1295.3 | 1265.0 | 1198.0 |
| 12.5° | 1338.3 | 1338.3 | 1352.7 | 1341.5 | 1344.7 | 1355.9 | 1347.9 | 1343.1 | 1316.0 | 1290.5 | 1231.5 |
| 15° | 1319.2 | 1325.6 | 1347.9 | 1365.4 | 1381.4 | 1376.6 | 1371.8 | 1357.5 | 1333.5 | 1304.8 | 1242.6 |
| 17.5° | 1324.0 | 1327.2 | 1362.3 | 1394.2 | 1386.2 | 1383.0 | 1408.5 | 1378.2 | 1354.3 | 1322.4 | 1252.2 |
| 20° | 1341.5 | 1351.1 | 1391.0 | 1432.4 | 1440.4 | 1440.4 | 1430.8 | 1413.3 | 1379.8 | 1336.7 | 1269.7 |
| 22.5° | 1359.1 | 1362.3 | 1427.7 | 1480.3 | 1488.3 | 1467.5 | 1475.5 | 1424.5 | 1392.6 | 1368.6 | 1287.3 |
| 25° | 1426.1 | 1419.7 | 1489.9 | 1531.3 | 1526.6 | 1505.8 | 1497.8 | 1453.2 | 1440.4 | 1397.3 | 1325.6 |
| 27.5° | 1517.0 | 1489.9 | 1558.5 | 1584.0 | 1558.5 | 1564.8 | 1542.5 | 1494.7 | 1467.5 | 1442.0 | 1343.1 |
| 30° | 1572.8 | 1588.8 | 1625.5 | 1651.0 | 1607.9 | 1609.5 | 1598.3 | 1545.7 | 1504.2 | 1510.6 | 1402.1 |
| 32.5° | 1659.0 | 1670.1 | 1697.2 | 1708.4 | 1674.9 | 1671.7 | 1660.5 | 1619.1 | 1588.8 | 1582.4 | 1481.9 |
| 35° | 1751.5 | 1772.2 | 1773.8 | 1777.0 | 1746.7 | 1759.4 | 1743.5 | 1684.5 | 1700.4 | 1711.6 | 1577.6 |
| 37.5° | 1842.4 | 1823.3 | 1855.2 | 1869.5 | 1836.0 | 1836.0 | 1840.8 | 1800.9 | 1829.6 | 1863.1 | 1713.2 |
| 40° | 1877.5 | 1885.5 | 1941.3 | 1930.1 | 1970.0 | 1946.1 | 1963.6 | 1954.1 | 1978.0 | 2054.6 | 1904.6 |
| 42.5° | 1914.2 | 1923.7 | 1998.7 | 2019.5 | 2067.3 | 2075.3 | 2100.8 | 2102.4 | 2172.6 | 2298.6 | 2088.0 |
| 45° | 1984.4 | 1968.4 | 2070.5 | 2121.5 | 2199.7 | 2222.0 | 2252.3 | 2277.9 | 2387.9 | 2536.3 | 2297.0 |
| 47.5° | 2048.2 | 2025.8 | 2142.3 | 2244.4 | 2340.1 | 2344.9 | 2427.8 | 2454.9 | 2585.7 | 2754.8 | 2504.4 |
| 50° | 2137.5 | 2145.5 | 2194.9 | 2370.4 | 2467.7 | 2523.5 | 2580.9 | 2670.3 | 2815.4 | 2995.7 | 2654.3 |
| 52.5° | 2230.0 | 2222.0 | 2305.0 | 2477.3 | 2630.4 | 2651.1 | 2780.3 | 2880.8 | 3038.8 | 3174.3 | 2721.3 |
| 55° | 2343.3 | 2352.8 | 2384.7 | 2611.3 | 2805.9 | 2855.3 | 3000.5 | 3105.8 | 3278.0 | 3250.9 | 2743.7 |
| 57.5° | 2456.5 | 2447.0 | 2518.7 | 2761.2 | 3026.0 | 3062.7 | 3255.7 | 3317.9 | 3434.4 | 3302.0 | 2687.8 |
| 60° | 2568.2 | 2585.7 | 2616.0 | 2930.3 | 3266.9 | 3321.1 | 3474.2 | 3506.1 | 3531.7 | 3325.9 | 2644.8 |
| 62.5° | 2695.8 | 2654.3 | 2748.4 | 3108.9 | 3483.8 | 3597.1 | 3718.3 | 3592.3 | 3569.9 | 3282.8 | 2545.9 |
| 65° | 2759.6 | 2772.4 | 2895.2 | 3313.1 | 3772.5 | 3855.5 | 3871.4 | 3708.7 | 3593.9 | 3187.1 | 2453.3 |
| 67.5° | 2858.5 | 2876.1 | 3032.4 | 3522.1 | 4069.2 | 4115.5 | 4058.1 | 3814.0 | 3573.1 | 3062.7 | 2120.0 |
| 70° | 2871.3 | 2914.3 | 3215.8 | 3740.6 | 4255.9 | 4295.7 | 4251.1 | 3884.2 | 3405.6 | 2573.0 | 1569.6 |
| 72.5° | 2804.3 | 2880.8 | 3260.5 | 3865.0 | 4412.2 | 4512.7 | 4262.2 | 3636.9 | 2745.3 | 1641.4 | 804.0 |
| 75° | 2118.4 | 2182.2 | 2984.5 | 3680.0 | 4134.6 | 4158.6 | 3742.2 | 2775.6 | 1563.2 | 559.9 | 205.8 |
| 77.5° | 1097.5 | 1207.5 | 1992.3 | 2812.2 | 3150.4 | 3124.9 | 2604.9 | 1635.0 | 537.6 | 146.8 | 82.9 |
| 80° | 630.1 | 657.2 | 871.0 | 1579.2 | 1981.2 | 1883.9 | 1440.4 | 705.1 | 236.1 | 73.4 | 54.2 |
| 82.5° | 311.1 | 349.3 | 469.0 | 706.7 | 990.6 | 815.1 | 540.8 | 422.7 | 132.4 | 39.9 | 47.9 |
| 85° | 67.0 | 70.2 | 239.3 | 338.2 | 402.0 | 264.8 | 185.0 | 355.7 | 47.9 | 23.9 | 46.3 |
| 87.5° | 47.9 | 46.3 | 67.0 | 151.5 | 111.7 | 68.6 | 110.1 | 186.6 | 11.2 | 11.2 | 9.6 |
| 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° | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 | 1229.9 |
| 2.5° | 1229.9 | 1215.5 | 1199.6 | 1169.2 | 1161.3 | 1156.5 | 1129.4 | 1127.8 | 1123.0 | 1111.8 | 1107.0 |
| 5° | 1196.4 | 1172.4 | 1142.1 | 1110.2 | 1084.7 | 1038.4 | 982.6 | 953.9 | 918.8 | 920.4 | 909.2 |
| 7.5° | 1191.6 | 1146.9 | 1103.8 | 1036.8 | 955.5 | 869.4 | 783.2 | 727.4 | 687.5 | 663.6 | 668.4 |
| 10° | 1169.2 | 1135.7 | 1065.6 | 941.1 | 810.3 | 679.5 | 569.5 | 486.5 | 438.7 | 402.0 | 413.1 |
| 12.5° | 1178.8 | 1113.4 | 1014.5 | 848.6 | 662.0 | 500.9 | 363.7 | 283.9 | 248.8 | 236.1 | 239.3 |
| 15° | 1172.4 | 1113.4 | 984.2 | 748.1 | 520.0 | 339.8 | 236.1 | 210.6 | 204.2 | 204.2 | 201.0 |
| 17.5° | 1191.6 | 1126.2 | 933.2 | 649.2 | 373.3 | 226.5 | 202.6 | 197.8 | 193.0 | 193.0 | 193.0 |
| 20° | 1218.7 | 1132.6 | 898.1 | 539.2 | 263.2 | 199.4 | 189.8 | 186.6 | 185.0 | 185.0 | 183.4 |
| 22.5° | 1220.3 | 1126.2 | 832.7 | 417.9 | 202.6 | 188.2 | 180.3 | 178.7 | 178.7 | 175.5 | 175.5 |
| 25° | 1229.9 | 1132.6 | 762.5 | 314.2 | 188.2 | 177.1 | 170.7 | 169.1 | 170.7 | 169.1 | 167.5 |
| 27.5° | 1253.8 | 1143.7 | 692.3 | 229.7 | 177.1 | 167.5 | 162.7 | 161.1 | 161.1 | 161.1 | 157.9 |
| 30° | 1284.1 | 1143.7 | 614.1 | 189.8 | 167.5 | 157.9 | 153.1 | 151.5 | 149.9 | 149.9 | 149.9 |
| 32.5° | 1347.9 | 1180.4 | 518.4 | 169.1 | 154.7 | 146.8 | 142.0 | 142.0 | 140.4 | 140.4 | 138.8 |
| 35° | 1427.7 | 1205.9 | 421.1 | 156.3 | 143.6 | 135.6 | 130.8 | 130.8 | 129.2 | 129.2 | 127.6 |
| 37.5° | 1526.6 | 1269.7 | 322.2 | 146.8 | 132.4 | 124.4 | 119.6 | 119.6 | 119.6 | 118.0 | 118.0 |
| 40° | 1666.9 | 1335.1 | 239.3 | 134.0 | 121.2 | 113.3 | 110.1 | 108.5 | 106.9 | 106.9 | 103.7 |
| 42.5° | 1816.9 | 1435.6 | 178.7 | 124.4 | 111.7 | 105.3 | 100.5 | 95.7 | 95.7 | 90.9 | 90.9 |
| 45° | 1979.6 | 1523.4 | 145.2 | 113.3 | 102.1 | 94.1 | 89.3 | 86.1 | 81.4 | 78.2 | 78.2 |
| 47.5° | 2139.1 | 1577.6 | 127.6 | 100.5 | 92.5 | 86.1 | 81.4 | 75.0 | 68.6 | 67.0 | 65.4 |
| 50° | 2268.3 | 1593.6 | 113.3 | 90.9 | 84.5 | 78.2 | 71.8 | 63.8 | 57.4 | 54.2 | 52.6 |
| 52.5° | 2268.3 | 1505.8 | 102.1 | 81.4 | 76.6 | 70.2 | 62.2 | 52.6 | 44.7 | 41.5 | 39.9 |
| 55° | 2268.3 | 1367.0 | 90.9 | 75.0 | 68.6 | 63.8 | 52.6 | 43.1 | 35.1 | 30.3 | 28.7 |
| 57.5° | 2234.8 | 1199.6 | 81.4 | 67.0 | 60.6 | 54.2 | 44.7 | 33.5 | 25.5 | 20.7 | 20.7 |
| 60° | 2142.3 | 1024.1 | 70.2 | 59.0 | 52.6 | 44.7 | 35.1 | 23.9 | 16.0 | 11.2 | 11.2 |
| 62.5° | 2024.2 | 815.1 | 60.6 | 49.4 | 43.1 | 36.7 | 27.1 | 16.0 | 6.4 | 3.2 | 3.2 |
| 65° | 1818.5 | 601.4 | 52.6 | 41.5 | 33.5 | 27.1 | 17.5 | 6.4 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1501.0 | 402.0 | 41.5 | 33.5 | 28.7 | 19.1 | 11.2 | 1.6 | 0.0 | 0.0 | 0.0 |
| 70° | 1056.0 | 228.1 | 31.9 | 23.9 | 20.7 | 12.8 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 433.9 | 100.5 | 22.3 | 17.5 | 14.4 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 118.0 | 44.7 | 14.4 | 9.6 | 8.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 68.6 | 30.3 | 6.4 | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 54.2 | 14.4 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 54.2 | 8.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 46.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.4 | 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)