

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: P674690

Luminaire Tested: **CCP-SA-2E-730-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674690
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-730-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T3R distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

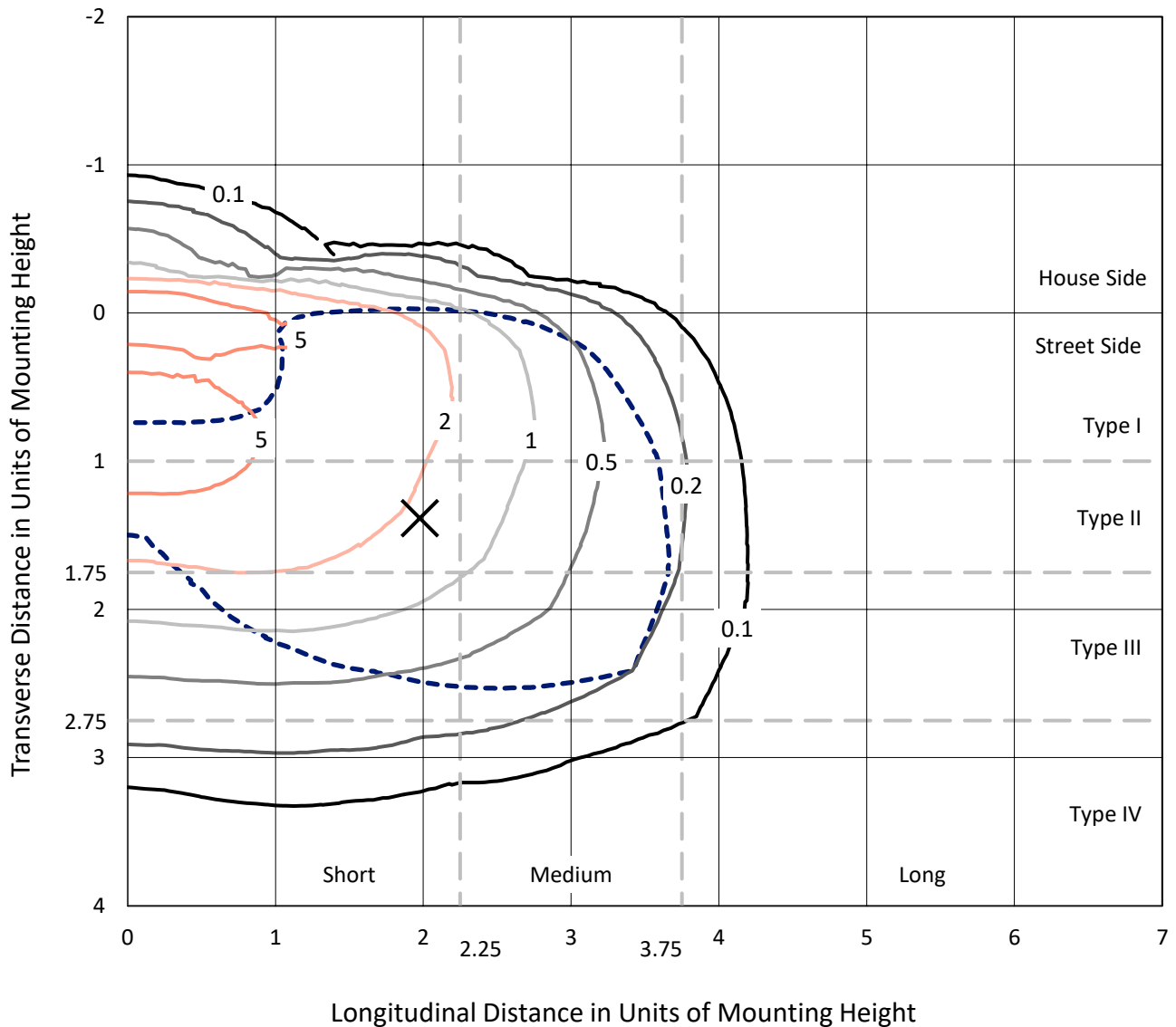
Lumens per Lamp: N/A
Luminaire Lumens: 9874.5 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

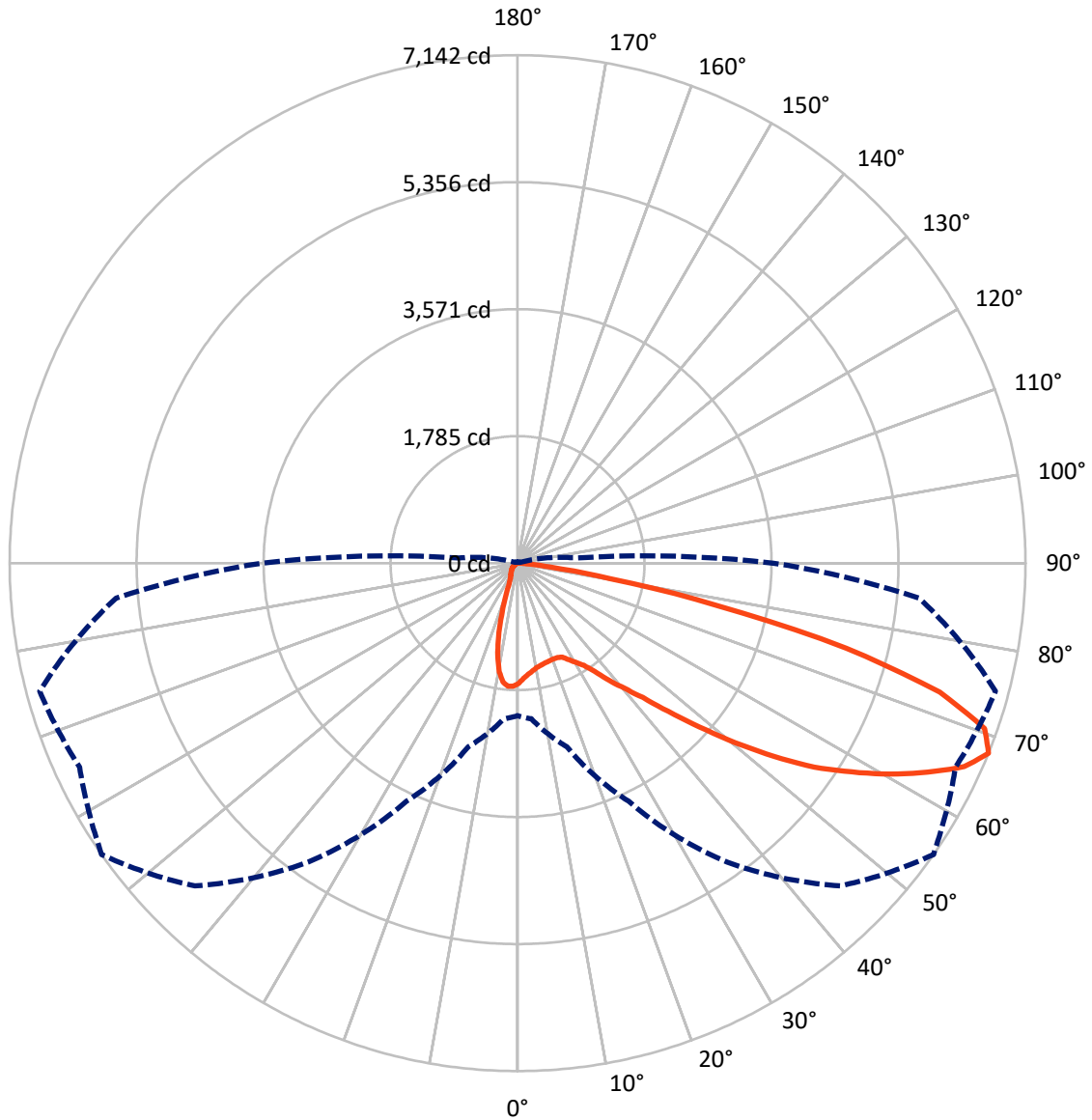
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 887.1 | 0.0 | 887.1 |
| | % Fixture | 9.0 | 0.0 | 9.0 |
| Street Side | Lumens | 8987.5 | 0.0 | 8987.5 |
| | % Fixture | 91.0 | 0.0 | 91.0 |
| Total | Lumens | 9874.5 | 0.0 | 9874.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.5 | 1.5 |
| 10°-20° | 338.1 | 3.4 |
| 20°-30° | 542.5 | 5.5 |
| 30°-40° | 940.9 | 9.5 |
| 40°-50° | 1568.9 | 15.9 |
| 50°-60° | 2294.3 | 23.2 |
| 60°-70° | 2675.1 | 27.1 |
| 70°-80° | 1298.2 | 13.1 |
| 80°-90° | 67.9 | 0.7 |
| 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° | 9874.5 | 100.0 |
| 0°-180° | 9874.5 | 100.0 |



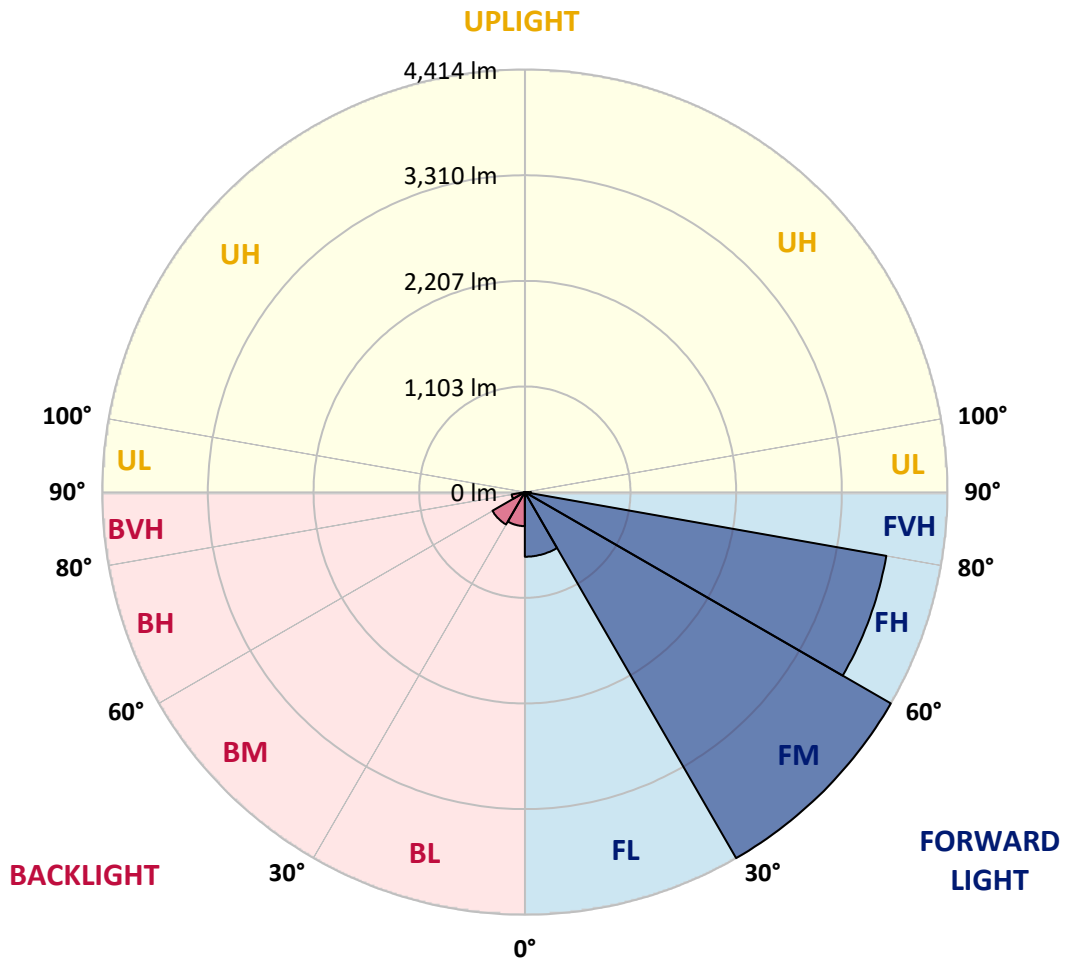
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 674.6 | 6.8 | | | |
| FM (30°-60°) | 4413.6 | 44.7 | | | |
| FH (60°-80°) | 3833.4 | 38.8 | | | G2/5000 |
| FVH (80°-90°) | 65.9 | 0.7 | | | G1/100 |
| BL (0°-30°) | 354.6 | 3.6 | B1/500 | | |
| BM (30°-60°) | 390.6 | 4.0 | B1/1000 | | |
| BH (60°-80°) | 139.9 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.0 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 |
| 2.5° | 1562.1 | 1572.1 | 1584.9 | 1589.4 | 1604.9 | 1626.7 | 1620.3 | 1615.8 | 1640.4 | 1674.0 | 1684.9 |
| 5° | 1464.8 | 1465.7 | 1485.7 | 1500.2 | 1526.6 | 1547.6 | 1570.3 | 1568.5 | 1613.1 | 1670.4 | 1706.8 |
| 7.5° | 1369.2 | 1371.1 | 1392.0 | 1414.7 | 1452.9 | 1493.9 | 1528.5 | 1526.6 | 1598.5 | 1674.9 | 1744.1 |
| 10° | 1243.7 | 1252.8 | 1278.3 | 1318.3 | 1378.3 | 1442.9 | 1491.1 | 1495.7 | 1582.1 | 1692.2 | 1795.0 |
| 12.5° | 1142.7 | 1147.2 | 1175.5 | 1227.3 | 1298.3 | 1382.9 | 1473.0 | 1470.2 | 1585.8 | 1724.1 | 1861.4 |
| 15° | 1099.9 | 1097.2 | 1114.5 | 1152.7 | 1233.7 | 1340.1 | 1454.8 | 1461.1 | 1598.5 | 1760.4 | 1930.6 |
| 17.5° | 1109.9 | 1107.2 | 1116.3 | 1130.0 | 1187.3 | 1304.6 | 1444.7 | 1455.7 | 1618.5 | 1798.7 | 1995.2 |
| 20° | 1220.9 | 1201.8 | 1185.5 | 1170.9 | 1179.1 | 1275.5 | 1438.4 | 1450.2 | 1630.3 | 1827.8 | 2063.4 |
| 22.5° | 1434.7 | 1411.1 | 1367.4 | 1286.4 | 1232.8 | 1277.3 | 1440.2 | 1455.7 | 1656.7 | 1875.1 | 2146.2 |
| 25° | 1783.2 | 1760.4 | 1666.7 | 1501.2 | 1359.2 | 1342.9 | 1464.8 | 1481.1 | 1717.7 | 1947.0 | 2234.4 |
| 27.5° | 2244.5 | 2193.5 | 2079.8 | 1842.3 | 1568.5 | 1447.5 | 1538.5 | 1556.7 | 1804.1 | 2002.5 | 2294.5 |
| 30° | 2627.5 | 2615.7 | 2506.5 | 2215.3 | 1856.9 | 1601.2 | 1621.2 | 1631.3 | 1843.2 | 2036.1 | 2354.5 |
| 32.5° | 3025.1 | 3000.5 | 2900.4 | 2617.5 | 2191.7 | 1820.5 | 1714.0 | 1718.6 | 1894.2 | 2086.2 | 2441.9 |
| 35° | 3370.8 | 3348.0 | 3264.3 | 2989.6 | 2582.9 | 2115.3 | 1867.8 | 1857.8 | 1999.7 | 2196.2 | 2560.2 |
| 37.5° | 3691.0 | 3688.3 | 3614.6 | 3334.4 | 2934.1 | 2421.0 | 2094.3 | 2086.2 | 2164.4 | 2317.2 | 2720.3 |
| 40° | 4004.0 | 3996.7 | 3933.9 | 3678.3 | 3279.8 | 2725.7 | 2310.0 | 2289.0 | 2304.5 | 2486.5 | 2931.3 |
| 42.5° | 4196.0 | 4211.4 | 4233.3 | 4071.3 | 3690.1 | 3083.3 | 2582.9 | 2570.2 | 2567.4 | 2751.2 | 3208.8 |
| 45° | 4299.7 | 4327.0 | 4455.3 | 4440.7 | 4125.0 | 3528.2 | 2971.4 | 2938.6 | 2927.7 | 3115.1 | 3526.4 |
| 47.5° | 4400.7 | 4412.5 | 4622.7 | 4710.9 | 4541.7 | 3992.2 | 3440.8 | 3395.3 | 3350.8 | 3559.1 | 3905.7 |
| 50° | 4407.0 | 4426.1 | 4686.3 | 4901.0 | 4891.0 | 4448.9 | 3967.6 | 3927.6 | 3876.6 | 4099.5 | 4276.0 |
| 52.5° | 4317.9 | 4356.1 | 4678.2 | 5021.1 | 5107.6 | 4851.9 | 4514.4 | 4481.6 | 4439.8 | 4606.3 | 4588.1 |
| 55° | 3701.9 | 3766.5 | 4518.0 | 5032.1 | 5259.5 | 5197.6 | 5063.9 | 5018.4 | 4977.5 | 5095.7 | 4893.8 |
| 57.5° | 3409.0 | 3445.4 | 4032.2 | 5023.9 | 5453.3 | 5517.9 | 5540.6 | 5519.7 | 5462.4 | 5609.8 | 5213.1 |
| 60° | 3233.4 | 3286.2 | 3800.2 | 4932.9 | 5662.5 | 5880.0 | 6022.8 | 5981.0 | 5910.9 | 6113.8 | 5555.2 |
| 62.5° | 3023.2 | 3061.5 | 3569.1 | 4670.9 | 5787.2 | 6248.5 | 6475.0 | 6436.8 | 6292.1 | 6578.7 | 5831.8 |
| 65° | 2635.7 | 2693.0 | 3201.6 | 4258.7 | 5619.8 | 6518.7 | 6900.8 | 6888.0 | 6636.9 | 6929.9 | 5907.3 |
| 67.5° | 2145.3 | 2197.1 | 2671.1 | 3693.8 | 5130.3 | 6417.7 | 7141.9 | 7101.8 | 6793.4 | 6956.3 | 5668.0 |
| 70° | 1610.3 | 1638.5 | 1996.1 | 2822.2 | 4203.2 | 5878.2 | 6967.2 | 6959.0 | 6556.0 | 6565.1 | 4933.8 |
| 72.5° | 864.3 | 942.5 | 1327.4 | 1888.7 | 2955.9 | 4760.9 | 6209.3 | 6176.6 | 5849.1 | 5376.9 | 3548.2 |
| 75° | 302.1 | 324.8 | 706.9 | 1060.8 | 1605.8 | 3171.5 | 4774.6 | 4698.2 | 4374.3 | 3497.2 | 1933.3 |
| 77.5° | 185.6 | 203.8 | 313.9 | 542.2 | 625.0 | 1376.5 | 2868.6 | 2769.4 | 2560.2 | 1512.1 | 660.5 |
| 80° | 128.3 | 144.7 | 210.2 | 283.9 | 212.9 | 445.8 | 1320.1 | 1282.8 | 987.1 | 360.3 | 151.9 |
| 82.5° | 71.9 | 86.4 | 159.2 | 139.2 | 85.5 | 115.5 | 457.6 | 424.0 | 262.9 | 97.3 | 50.9 |
| 85° | 41.9 | 50.0 | 111.9 | 98.3 | 43.7 | 40.9 | 119.2 | 106.4 | 68.2 | 36.4 | 24.6 |
| 87.5° | 21.8 | 28.2 | 81.9 | 65.5 | 26.4 | 14.6 | 27.3 | 26.4 | 17.3 | 12.7 | 16.4 |
| 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° | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 | 1692.2 |
| 2.5° | 1705.0 | 1700.4 | 1724.1 | 1732.2 | 1730.4 | 1726.8 | 1735.9 | 1724.1 | 1723.1 | 1720.4 | 1717.7 |
| 5° | 1735.9 | 1743.2 | 1762.3 | 1762.3 | 1736.8 | 1694.9 | 1669.5 | 1634.9 | 1605.8 | 1588.5 | 1585.8 |
| 7.5° | 1782.3 | 1796.8 | 1809.6 | 1770.5 | 1683.1 | 1579.4 | 1469.3 | 1382.9 | 1307.4 | 1268.3 | 1264.6 |
| 10° | 1847.8 | 1861.4 | 1851.4 | 1739.5 | 1552.1 | 1337.4 | 1158.2 | 978.0 | 888.0 | 838.8 | 838.8 |
| 12.5° | 1926.0 | 1936.9 | 1876.0 | 1662.2 | 1336.5 | 1025.3 | 786.1 | 596.8 | 506.8 | 448.5 | 444.9 |
| 15° | 2010.6 | 2013.4 | 1872.4 | 1527.5 | 1069.9 | 688.7 | 451.3 | 331.2 | 293.0 | 284.8 | 282.9 |
| 17.5° | 2084.3 | 2073.4 | 1834.1 | 1328.3 | 770.6 | 410.3 | 286.6 | 259.3 | 252.0 | 252.0 | 252.0 |
| 20° | 2153.5 | 2117.1 | 1757.7 | 1096.3 | 494.0 | 279.3 | 246.6 | 239.3 | 239.3 | 240.2 | 240.2 |
| 22.5° | 2229.9 | 2158.0 | 1648.5 | 838.8 | 317.5 | 239.3 | 231.1 | 227.4 | 226.5 | 229.3 | 228.4 |
| 25° | 2320.0 | 2198.1 | 1492.1 | 579.5 | 245.6 | 222.9 | 219.3 | 215.6 | 215.6 | 215.6 | 215.6 |
| 27.5° | 2370.0 | 2192.6 | 1313.7 | 365.7 | 214.7 | 206.5 | 202.9 | 199.2 | 196.5 | 195.6 | 196.5 |
| 30° | 2413.7 | 2160.8 | 1080.8 | 255.7 | 193.8 | 184.7 | 182.0 | 177.4 | 172.0 | 170.1 | 170.1 |
| 32.5° | 2471.0 | 2134.4 | 837.0 | 205.6 | 175.6 | 165.6 | 157.4 | 150.1 | 141.0 | 137.4 | 136.5 |
| 35° | 2534.7 | 2086.2 | 613.2 | 181.0 | 159.2 | 146.5 | 133.7 | 121.9 | 110.1 | 106.4 | 105.5 |
| 37.5° | 2613.8 | 2042.5 | 415.8 | 167.4 | 145.6 | 130.1 | 112.8 | 96.4 | 85.5 | 83.7 | 83.7 |
| 40° | 2721.2 | 2006.1 | 287.5 | 155.6 | 132.8 | 114.6 | 93.7 | 76.4 | 69.1 | 67.3 | 67.3 |
| 42.5° | 2867.7 | 1976.1 | 217.4 | 145.6 | 121.9 | 99.2 | 75.5 | 62.8 | 57.3 | 55.5 | 55.5 |
| 45° | 3040.5 | 1929.7 | 183.8 | 136.5 | 111.0 | 83.7 | 62.8 | 52.8 | 50.0 | 50.0 | 50.0 |
| 47.5° | 3238.9 | 1871.4 | 167.4 | 127.4 | 99.2 | 68.2 | 52.8 | 48.2 | 47.3 | 47.3 | 48.2 |
| 50° | 3439.0 | 1802.3 | 155.6 | 116.5 | 85.5 | 58.2 | 48.2 | 45.5 | 45.5 | 46.4 | 46.4 |
| 52.5° | 3574.6 | 1694.0 | 143.7 | 104.6 | 71.9 | 50.9 | 45.5 | 44.6 | 43.7 | 43.7 | 43.7 |
| 55° | 3706.5 | 1599.4 | 127.4 | 91.9 | 60.0 | 47.3 | 43.7 | 42.8 | 42.8 | 41.9 | 41.9 |
| 57.5° | 3843.9 | 1524.8 | 106.4 | 76.4 | 50.9 | 44.6 | 41.9 | 41.9 | 40.0 | 39.1 | 39.1 |
| 60° | 4003.1 | 1459.3 | 81.9 | 60.0 | 44.6 | 41.9 | 39.1 | 38.2 | 36.4 | 34.6 | 34.6 |
| 62.5° | 4049.5 | 1321.0 | 61.9 | 48.2 | 38.2 | 36.4 | 35.5 | 33.7 | 29.1 | 25.5 | 26.4 |
| 65° | 3928.5 | 1103.6 | 49.1 | 38.2 | 30.9 | 30.9 | 28.2 | 23.7 | 19.1 | 16.4 | 16.4 |
| 67.5° | 3594.6 | 824.3 | 40.0 | 30.0 | 24.6 | 23.7 | 20.0 | 17.3 | 11.8 | 10.0 | 10.0 |
| 70° | 2962.3 | 545.0 | 32.8 | 23.7 | 20.0 | 16.4 | 13.6 | 12.7 | 9.1 | 7.3 | 7.3 |
| 72.5° | 2076.1 | 295.7 | 27.3 | 19.1 | 14.6 | 10.9 | 9.1 | 8.2 | 6.4 | 5.5 | 4.5 |
| 75° | 1096.3 | 113.7 | 21.8 | 14.6 | 9.1 | 7.3 | 5.5 | 5.5 | 4.5 | 3.6 | 3.6 |
| 77.5° | 375.7 | 48.2 | 15.5 | 8.2 | 6.4 | 4.5 | 3.6 | 2.7 | 3.6 | 2.7 | 2.7 |
| 80° | 89.2 | 28.2 | 10.0 | 5.5 | 3.6 | 2.7 | 2.7 | 1.8 | 1.8 | 1.8 | 1.8 |
| 82.5° | 39.1 | 16.4 | 6.4 | 3.6 | 3.6 | 2.7 | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 |
| 85° | 26.4 | 10.0 | 4.5 | 3.6 | 2.7 | 1.8 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 20.9 | 6.4 | 3.6 | 3.6 | 2.7 | 1.8 | 0.9 | 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)