

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: P670890

Luminaire Tested: **CCP-SA-2E-840-U-T3**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P670890
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-840-U-T3
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T3 distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

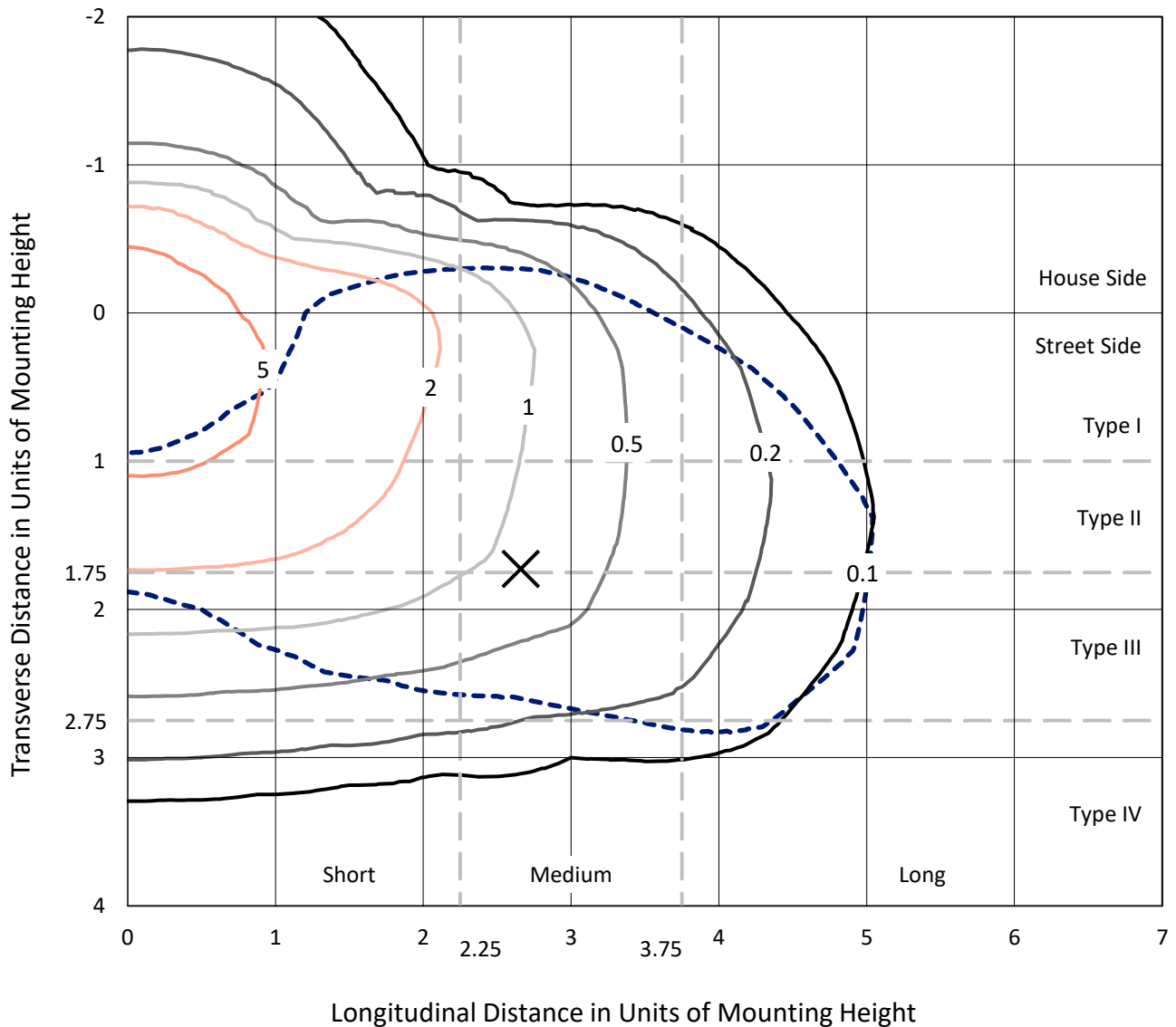
Lumens per Lamp: N/A
Luminaire Lumens: 11778.7 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

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

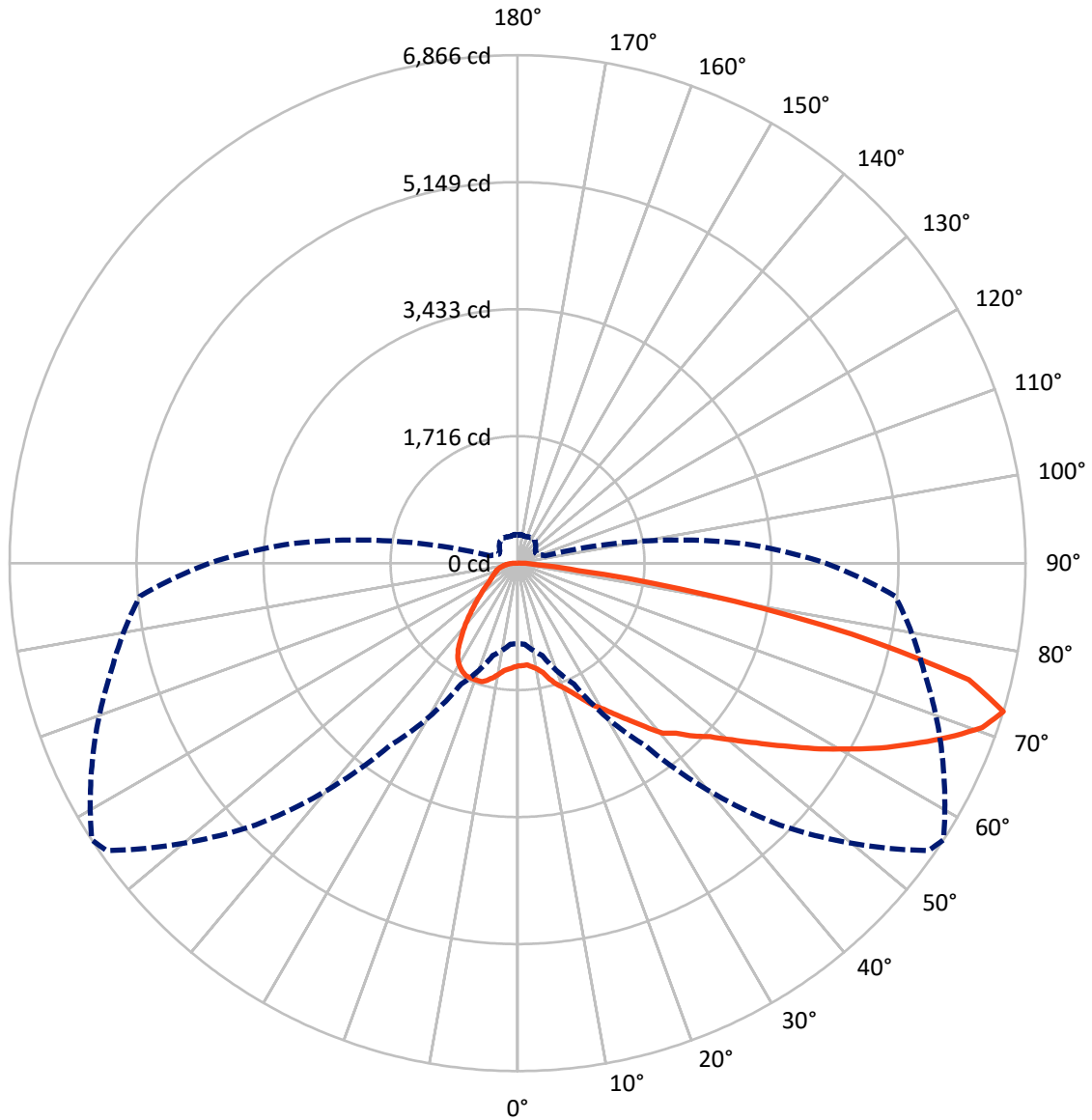
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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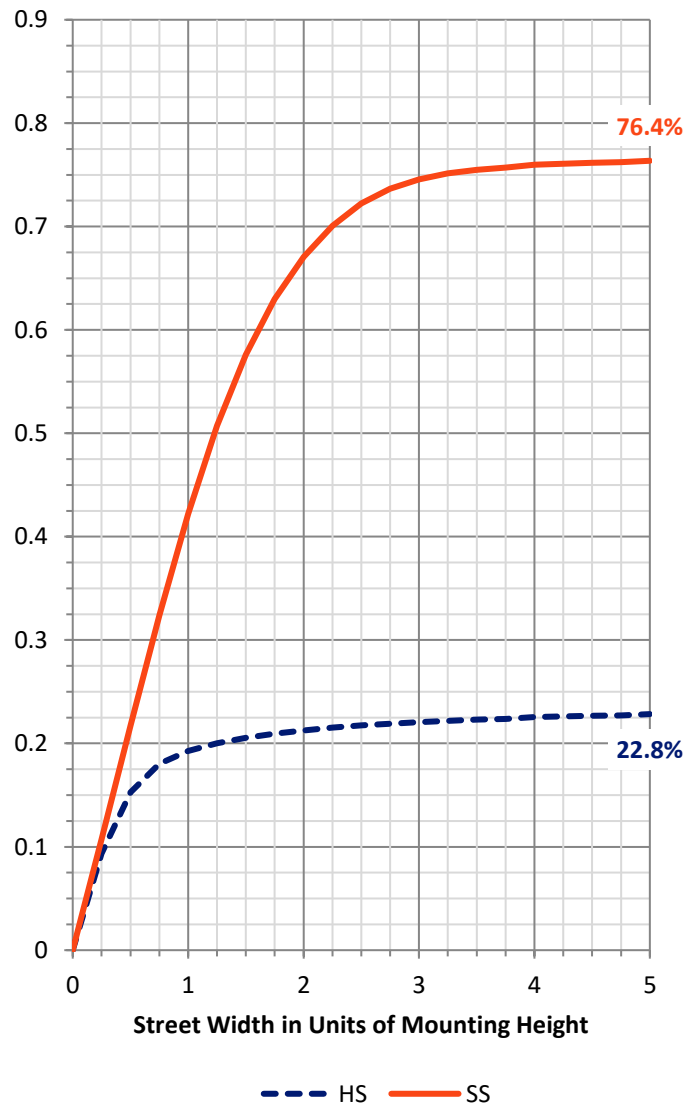
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2750.7 | 0.0 | 2750.7 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 9028.0 | 0.0 | 9028.0 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 11778.7 | 0.0 | 11778.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 138.0 | 1.2 |
| 10°-20° | 465.1 | 3.9 |
| 20°-30° | 850.2 | 7.2 |
| 30°-40° | 1247.3 | 10.6 |
| 40°-50° | 1717.4 | 14.6 |
| 50°-60° | 2355.1 | 20.0 |
| 60°-70° | 2838.9 | 24.1 |
| 70°-80° | 1891.1 | 16.1 |
| 80°-90° | 275.4 | 2.3 |
| 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° | 11778.7 | 100.0 |
| 0°-180° | 11778.7 | 100.0 |

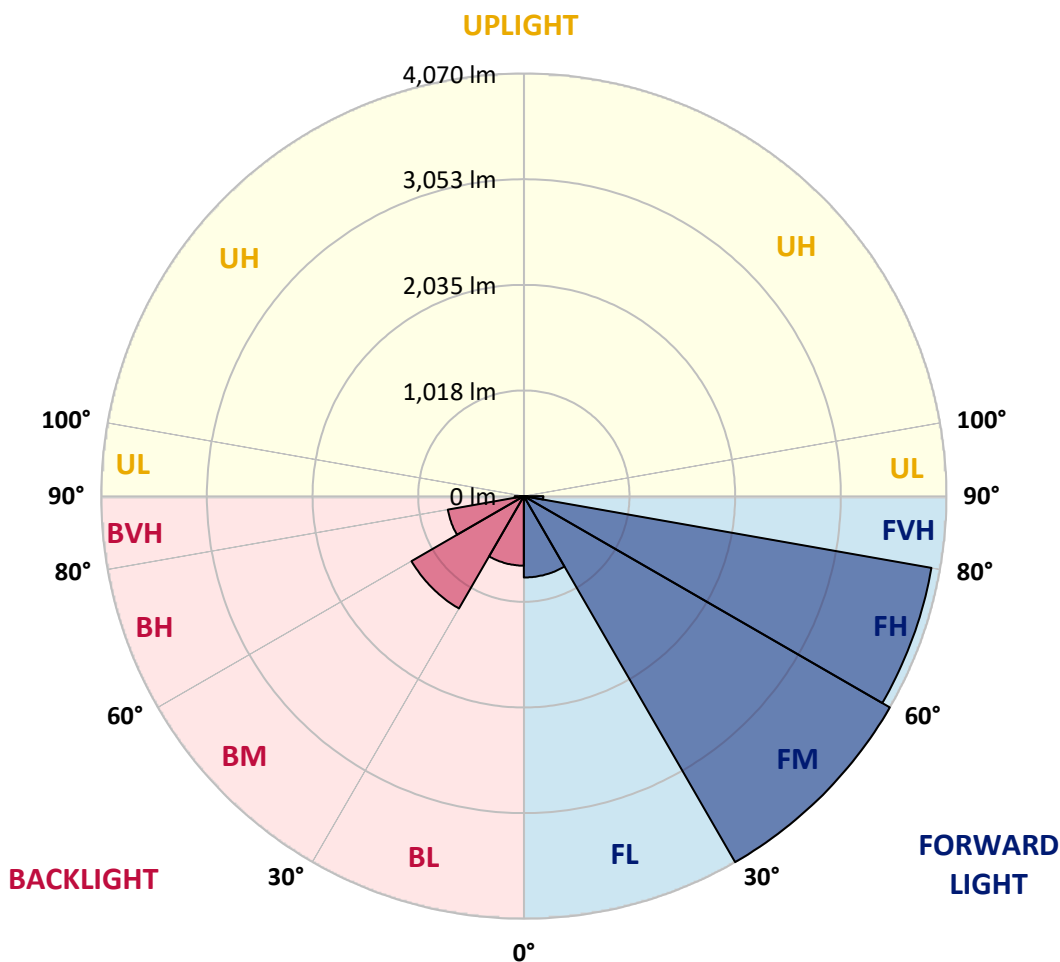


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 783.6 | 6.7 | | | |
| FM (30°-60°) | 4070.5 | 34.6 | | | |
| FH (60°-80°) | 3986.3 | 33.8 | | | G2/5000 |
| FVH (80°-90°) | 187.6 | 1.6 | | | G2/225 |
| BL (0°-30°) | 669.7 | 5.7 | B2/1000 | | |
| BM (30°-60°) | 1249.4 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 743.7 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 87.9 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 |
| 2.5° | 1364.5 | 1368.8 | 1377.4 | 1373.1 | 1373.1 | 1360.2 | 1381.7 | 1386.0 | 1377.4 | 1381.7 | 1390.3 |
| 5° | 1364.5 | 1373.1 | 1386.0 | 1377.4 | 1381.7 | 1377.4 | 1368.8 | 1381.7 | 1381.7 | 1386.0 | 1398.8 |
| 7.5° | 1437.5 | 1433.2 | 1433.2 | 1420.3 | 1416.0 | 1411.7 | 1416.0 | 1416.0 | 1407.4 | 1411.7 | 1411.7 |
| 10° | 1519.0 | 1519.0 | 1510.4 | 1510.4 | 1501.8 | 1480.4 | 1458.9 | 1454.6 | 1441.8 | 1446.0 | 1446.0 |
| 12.5° | 1604.8 | 1613.4 | 1622.0 | 1596.2 | 1587.6 | 1553.3 | 1540.4 | 1514.7 | 1514.7 | 1506.1 | 1501.8 |
| 15° | 1712.1 | 1699.2 | 1707.8 | 1699.2 | 1677.8 | 1643.4 | 1622.0 | 1626.3 | 1596.2 | 1587.6 | 1574.8 |
| 17.5° | 1806.5 | 1810.8 | 1797.9 | 1789.3 | 1750.7 | 1725.0 | 1729.2 | 1725.0 | 1686.3 | 1673.5 | 1652.0 |
| 20° | 1918.0 | 1913.8 | 1913.8 | 1888.0 | 1853.7 | 1819.4 | 1806.5 | 1802.2 | 1810.8 | 1785.0 | 1733.5 |
| 22.5° | 2033.9 | 2016.7 | 2016.7 | 1995.3 | 1948.1 | 1926.6 | 1918.0 | 1900.9 | 1909.5 | 1888.0 | 1810.8 |
| 25° | 2128.3 | 2128.3 | 2158.3 | 2115.4 | 2089.7 | 2046.8 | 2029.6 | 2033.9 | 2038.2 | 1995.3 | 1905.2 |
| 27.5° | 2252.7 | 2231.3 | 2261.3 | 2239.9 | 2227.0 | 2179.8 | 2158.3 | 2171.2 | 2162.6 | 2115.4 | 1991.0 |
| 30° | 2411.5 | 2415.8 | 2398.6 | 2368.6 | 2351.4 | 2317.1 | 2304.2 | 2291.4 | 2304.2 | 2244.2 | 2085.4 |
| 32.5° | 2608.9 | 2621.8 | 2578.9 | 2544.5 | 2514.5 | 2480.2 | 2454.4 | 2441.5 | 2454.4 | 2364.3 | 2158.3 |
| 35° | 2836.3 | 2849.2 | 2814.9 | 2776.2 | 2741.9 | 2656.1 | 2634.6 | 2613.2 | 2566.0 | 2420.1 | 2227.0 |
| 37.5° | 3046.6 | 3029.4 | 3020.8 | 3020.8 | 2956.5 | 2832.0 | 2819.1 | 2806.3 | 2716.2 | 2531.7 | 2321.4 |
| 40° | 3188.2 | 3209.6 | 3201.0 | 3192.5 | 3183.9 | 3068.0 | 3042.3 | 3020.8 | 2870.6 | 2699.0 | 2454.4 |
| 42.5° | 3346.9 | 3334.1 | 3368.4 | 3381.3 | 3351.2 | 3316.9 | 3213.9 | 3141.0 | 3007.9 | 2870.6 | 2651.8 |
| 45° | 3535.7 | 3527.1 | 3540.0 | 3587.2 | 3544.3 | 3557.2 | 3385.5 | 3334.1 | 3166.7 | 3085.2 | 2900.7 |
| 47.5° | 3703.1 | 3724.5 | 3788.9 | 3801.8 | 3767.4 | 3827.5 | 3587.2 | 3505.7 | 3398.4 | 3334.1 | 3158.1 |
| 50° | 3776.0 | 3801.8 | 3947.7 | 4037.8 | 4042.1 | 4136.5 | 3788.9 | 3754.6 | 3608.7 | 3634.4 | 3479.9 |
| 52.5° | 3716.0 | 3797.5 | 3973.4 | 4209.4 | 4355.3 | 4449.7 | 4054.9 | 4037.8 | 3904.8 | 3986.3 | 3831.8 |
| 55° | 3771.7 | 3849.0 | 3964.8 | 4295.2 | 4664.2 | 4685.7 | 4424.0 | 4359.6 | 4226.6 | 4338.1 | 4196.5 |
| 57.5° | 3797.5 | 3754.6 | 3973.4 | 4389.6 | 4891.7 | 4947.4 | 4775.8 | 4728.6 | 4625.6 | 4732.9 | 4651.4 |
| 60° | 3595.8 | 3647.3 | 3853.3 | 4363.9 | 4904.5 | 5226.4 | 5170.6 | 5101.9 | 5007.5 | 5106.2 | 5059.0 |
| 62.5° | 3368.4 | 3402.7 | 3625.8 | 4209.4 | 4977.5 | 5428.0 | 5552.5 | 5501.0 | 5368.0 | 5453.8 | 5535.3 |
| 65° | 3080.9 | 3085.2 | 3334.1 | 3934.8 | 4835.9 | 5543.9 | 5887.2 | 5882.9 | 5788.5 | 5767.0 | 5895.7 |
| 67.5° | 2729.0 | 2763.4 | 2960.7 | 3643.0 | 4642.8 | 5672.6 | 6217.6 | 6281.9 | 6093.1 | 5925.8 | 5973.0 |
| 70° | 2094.0 | 2128.3 | 2317.1 | 2986.5 | 4248.0 | 5634.0 | 6625.2 | 6659.5 | 6290.5 | 5865.7 | 5745.6 |
| 72.5° | 1089.9 | 1098.5 | 1291.6 | 1802.2 | 3012.2 | 5003.2 | 6775.4 | 6865.5 | 6342.0 | 5689.8 | 5123.4 |
| 75° | 360.4 | 360.4 | 442.0 | 686.5 | 1420.3 | 3201.0 | 6136.0 | 6299.1 | 6088.8 | 5252.1 | 4192.2 |
| 77.5° | 214.5 | 218.8 | 261.7 | 343.3 | 566.4 | 1278.7 | 4325.3 | 4612.8 | 4981.8 | 4466.9 | 3063.7 |
| 80° | 154.5 | 158.8 | 197.4 | 236.0 | 339.0 | 411.9 | 2171.2 | 2570.3 | 3059.4 | 2874.9 | 1634.8 |
| 82.5° | 115.9 | 115.9 | 154.5 | 175.9 | 231.7 | 244.6 | 605.0 | 828.2 | 1321.6 | 1029.8 | 450.5 |
| 85° | 120.1 | 120.1 | 120.1 | 124.4 | 158.8 | 141.6 | 253.2 | 270.3 | 386.2 | 339.0 | 124.4 |
| 87.5° | 42.9 | 47.2 | 120.1 | 81.5 | 81.5 | 60.1 | 98.7 | 107.3 | 137.3 | 141.6 | 47.2 |
| 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° | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 | 1390.3 |
| 2.5° | 1394.6 | 1394.6 | 1398.8 | 1398.8 | 1407.4 | 1416.0 | 1428.9 | 1420.3 | 1420.3 | 1424.6 | 1420.3 |
| 5° | 1390.3 | 1394.6 | 1407.4 | 1428.9 | 1437.5 | 1441.8 | 1467.5 | 1467.5 | 1467.5 | 1476.1 | 1476.1 |
| 7.5° | 1407.4 | 1416.0 | 1437.5 | 1458.9 | 1463.2 | 1476.1 | 1510.4 | 1519.0 | 1540.4 | 1549.0 | 1553.3 |
| 10° | 1450.3 | 1463.2 | 1480.4 | 1506.1 | 1523.3 | 1540.4 | 1566.2 | 1596.2 | 1591.9 | 1617.7 | 1622.0 |
| 12.5° | 1514.7 | 1510.4 | 1540.4 | 1566.2 | 1583.4 | 1609.1 | 1617.7 | 1617.7 | 1617.7 | 1617.7 | 1626.3 |
| 15° | 1566.2 | 1574.8 | 1600.5 | 1617.7 | 1639.1 | 1634.8 | 1617.7 | 1600.5 | 1604.8 | 1600.5 | 1600.5 |
| 17.5° | 1643.4 | 1643.4 | 1664.9 | 1669.2 | 1677.8 | 1634.8 | 1609.1 | 1609.1 | 1622.0 | 1622.0 | 1613.4 |
| 20° | 1720.7 | 1716.4 | 1725.0 | 1720.7 | 1664.9 | 1613.4 | 1609.1 | 1613.4 | 1617.7 | 1613.4 | 1609.1 |
| 22.5° | 1793.6 | 1785.0 | 1772.2 | 1755.0 | 1656.3 | 1609.1 | 1600.5 | 1579.1 | 1557.6 | 1557.6 | 1544.7 |
| 25° | 1858.0 | 1849.4 | 1815.1 | 1763.6 | 1652.0 | 1583.4 | 1540.4 | 1489.0 | 1463.2 | 1450.3 | 1467.5 |
| 27.5° | 1918.0 | 1900.9 | 1853.7 | 1763.6 | 1613.4 | 1514.7 | 1433.2 | 1368.8 | 1347.4 | 1330.2 | 1347.4 |
| 30° | 1999.6 | 1969.5 | 1905.2 | 1750.7 | 1553.3 | 1407.4 | 1295.9 | 1218.6 | 1197.2 | 1171.4 | 1180.0 |
| 32.5° | 2072.5 | 2003.9 | 1948.1 | 1712.1 | 1476.1 | 1287.3 | 1158.6 | 1081.3 | 1042.7 | 1021.2 | 1038.4 |
| 35° | 2149.8 | 2081.1 | 1965.2 | 1652.0 | 1355.9 | 1141.4 | 1012.7 | 939.7 | 909.7 | 879.6 | 879.6 |
| 37.5° | 2227.0 | 2188.4 | 1991.0 | 1540.4 | 1210.0 | 1004.1 | 888.2 | 832.4 | 781.0 | 725.2 | 725.2 |
| 40° | 2390.1 | 2338.6 | 2021.0 | 1411.7 | 1064.2 | 871.1 | 789.5 | 716.6 | 665.1 | 587.9 | 583.6 |
| 42.5° | 2561.7 | 2450.1 | 2021.0 | 1257.2 | 935.4 | 776.7 | 699.4 | 622.2 | 527.8 | 480.6 | 484.9 |
| 45° | 2780.5 | 2651.8 | 1965.2 | 1119.9 | 806.7 | 699.4 | 613.6 | 514.9 | 472.0 | 442.0 | 442.0 |
| 47.5° | 3055.1 | 2853.5 | 1896.6 | 969.8 | 703.7 | 630.8 | 523.5 | 463.4 | 433.4 | 407.6 | 403.3 |
| 50° | 3381.3 | 3038.0 | 1810.8 | 841.0 | 617.9 | 566.4 | 476.3 | 429.1 | 403.3 | 386.2 | 386.2 |
| 52.5° | 3724.5 | 3308.3 | 1750.7 | 725.2 | 549.2 | 480.6 | 442.0 | 411.9 | 390.5 | 377.6 | 373.3 |
| 55° | 4072.1 | 3578.6 | 1707.8 | 600.7 | 484.9 | 442.0 | 433.4 | 407.6 | 399.1 | 386.2 | 377.6 |
| 57.5° | 4462.6 | 3801.8 | 1699.2 | 514.9 | 433.4 | 424.8 | 442.0 | 420.5 | 407.6 | 394.8 | 381.9 |
| 60° | 4883.1 | 4102.1 | 1622.0 | 446.3 | 407.6 | 416.2 | 429.1 | 407.6 | 399.1 | 386.2 | 377.6 |
| 62.5° | 5299.3 | 4325.3 | 1411.7 | 394.8 | 381.9 | 390.5 | 407.6 | 390.5 | 377.6 | 381.9 | 386.2 |
| 65° | 5470.9 | 4342.4 | 1094.2 | 356.1 | 351.9 | 356.1 | 381.9 | 377.6 | 364.7 | 390.5 | 390.5 |
| 67.5° | 5299.3 | 4188.0 | 772.4 | 321.8 | 321.8 | 343.3 | 386.2 | 394.8 | 381.9 | 416.2 | 411.9 |
| 70° | 4908.8 | 3806.1 | 523.5 | 300.4 | 308.9 | 364.7 | 399.1 | 390.5 | 373.3 | 416.2 | 407.6 |
| 72.5° | 4166.5 | 3046.6 | 381.9 | 278.9 | 291.8 | 347.6 | 394.8 | 386.2 | 373.3 | 390.5 | 373.3 |
| 75° | 3128.1 | 2166.9 | 300.4 | 253.2 | 257.5 | 313.2 | 407.6 | 386.2 | 351.9 | 343.3 | 330.4 |
| 77.5° | 2089.7 | 1338.8 | 231.7 | 223.1 | 223.1 | 274.6 | 390.5 | 360.4 | 317.5 | 304.7 | 300.4 |
| 80° | 995.5 | 536.4 | 184.5 | 188.8 | 193.1 | 236.0 | 356.1 | 321.8 | 287.5 | 270.3 | 270.3 |
| 82.5° | 317.5 | 201.7 | 154.5 | 154.5 | 154.5 | 193.1 | 296.1 | 270.3 | 248.9 | 236.0 | 214.5 |
| 85° | 111.6 | 111.6 | 133.0 | 137.3 | 124.4 | 141.6 | 244.6 | 231.7 | 206.0 | 171.6 | 167.3 |
| 87.5° | 42.9 | 64.4 | 90.1 | 107.3 | 77.2 | 98.7 | 175.9 | 163.1 | 150.2 | 111.6 | 107.3 |
| 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)