

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: P675286

Luminaire Tested: **CCW-SA-2D-750-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675286
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-750-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T4W distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

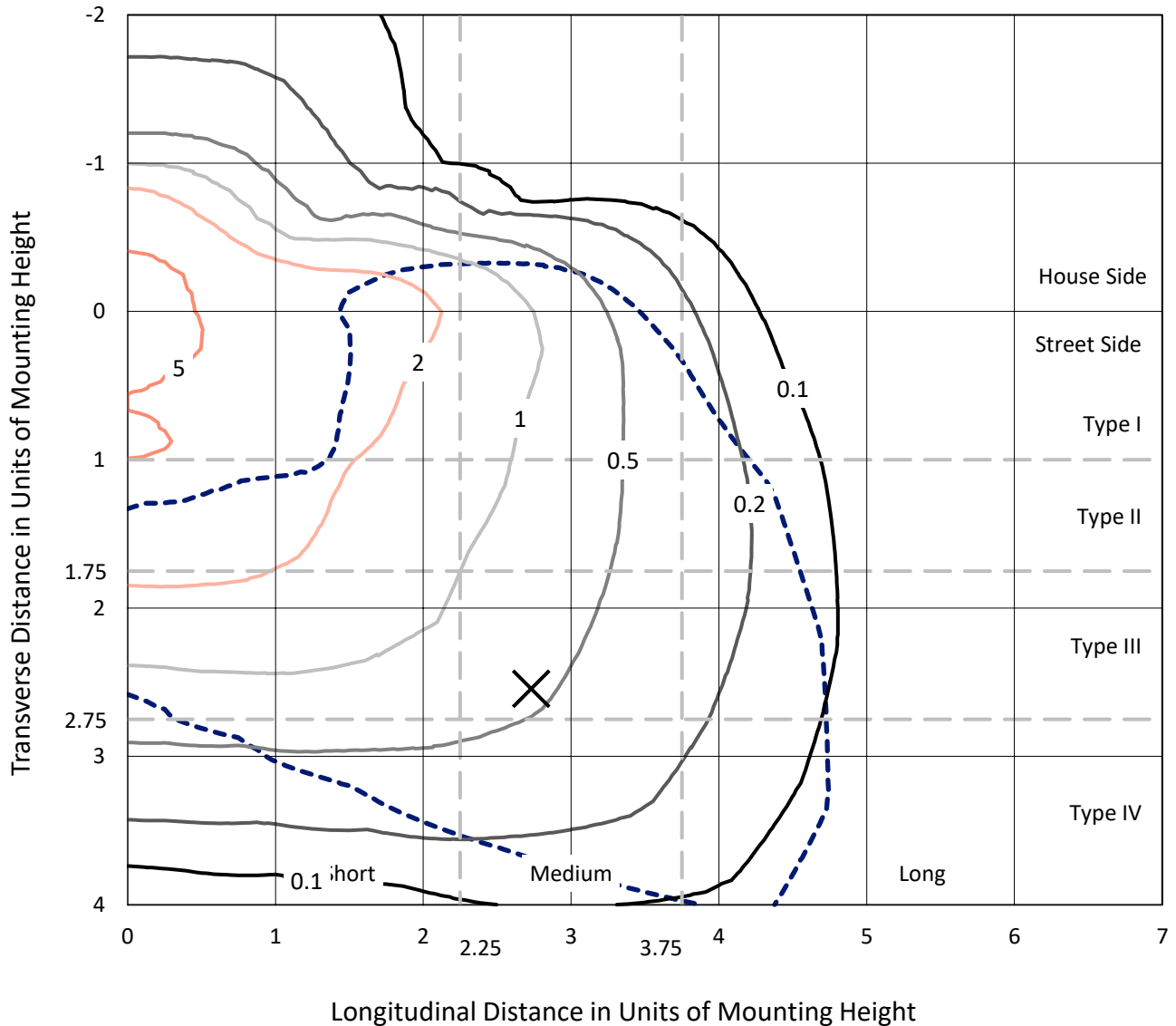
Lumens per Lamp: N/A
Luminaire Lumens: 11508.8 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8
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

REPORT NUMBER: P675286
 CATALOG NUMBER: CCW-SA-2D-750-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

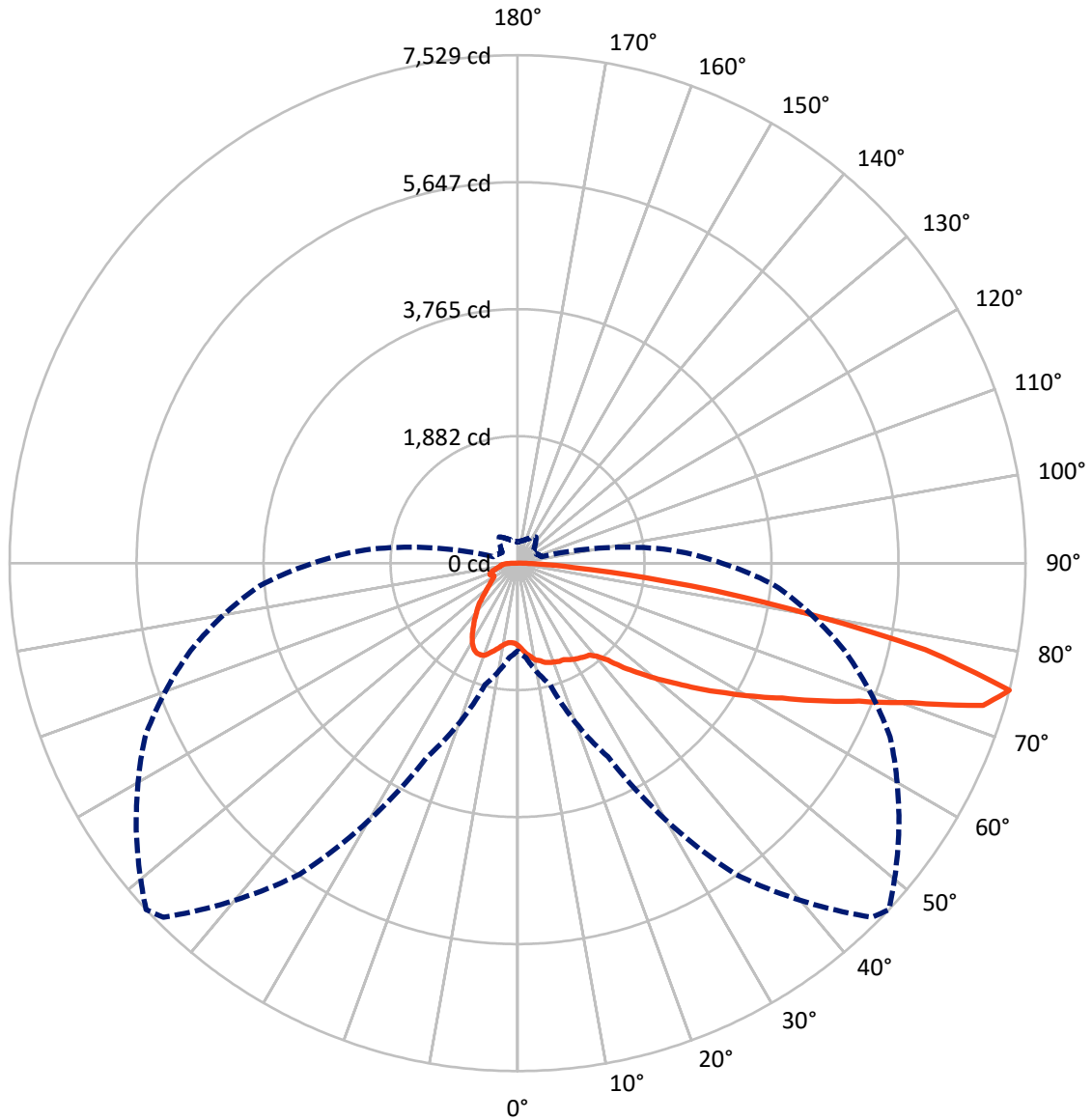
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P675286
CATALOG NUMBER: CCW-SA-2D-750-U-T4W

Luminous Intensity Polar Plot



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

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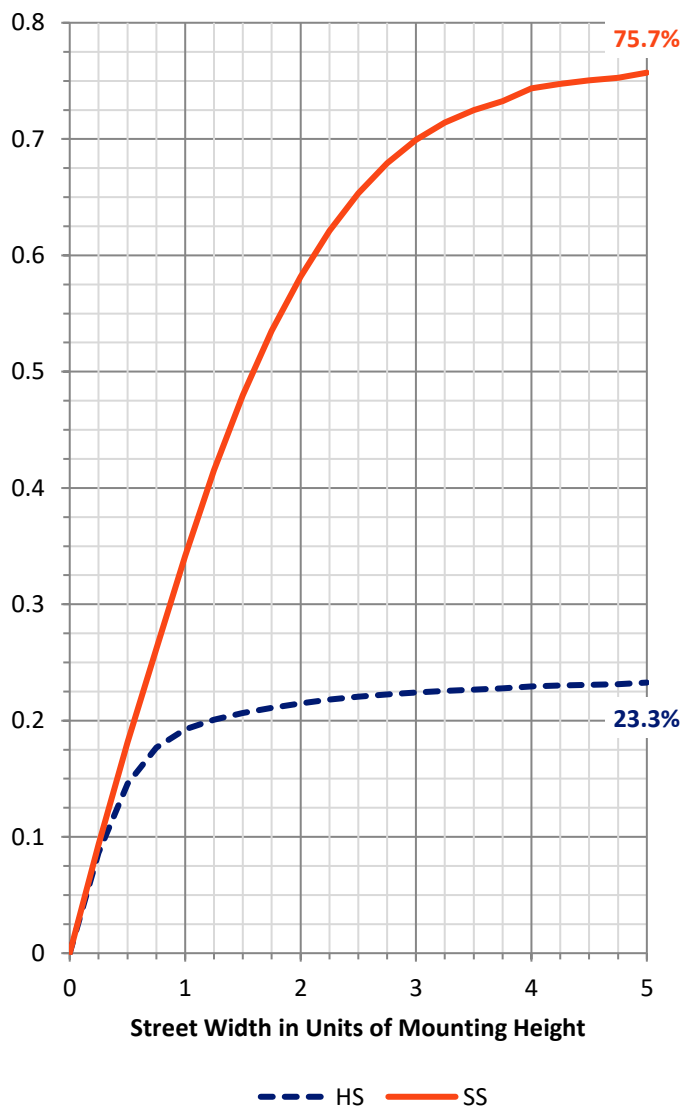
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2752.3 | 0.0 | 2752.3 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 8756.5 | 0.0 | 8756.5 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 11508.8 | 0.0 | 11508.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 123.5 | 1.1 |
| 10°-20° | 410.2 | 3.6 |
| 20°-30° | 702.7 | 6.1 |
| 30°-40° | 983.2 | 8.5 |
| 40°-50° | 1370.8 | 11.9 |
| 50°-60° | 2049.0 | 17.8 |
| 60°-70° | 2954.2 | 25.7 |
| 70°-80° | 2514.6 | 21.8 |
| 80°-90° | 400.6 | 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° | 11508.8 | 100.0 |
| 0°-180° | 11508.8 | 100.0 |



REPORT NUMBER: P675286

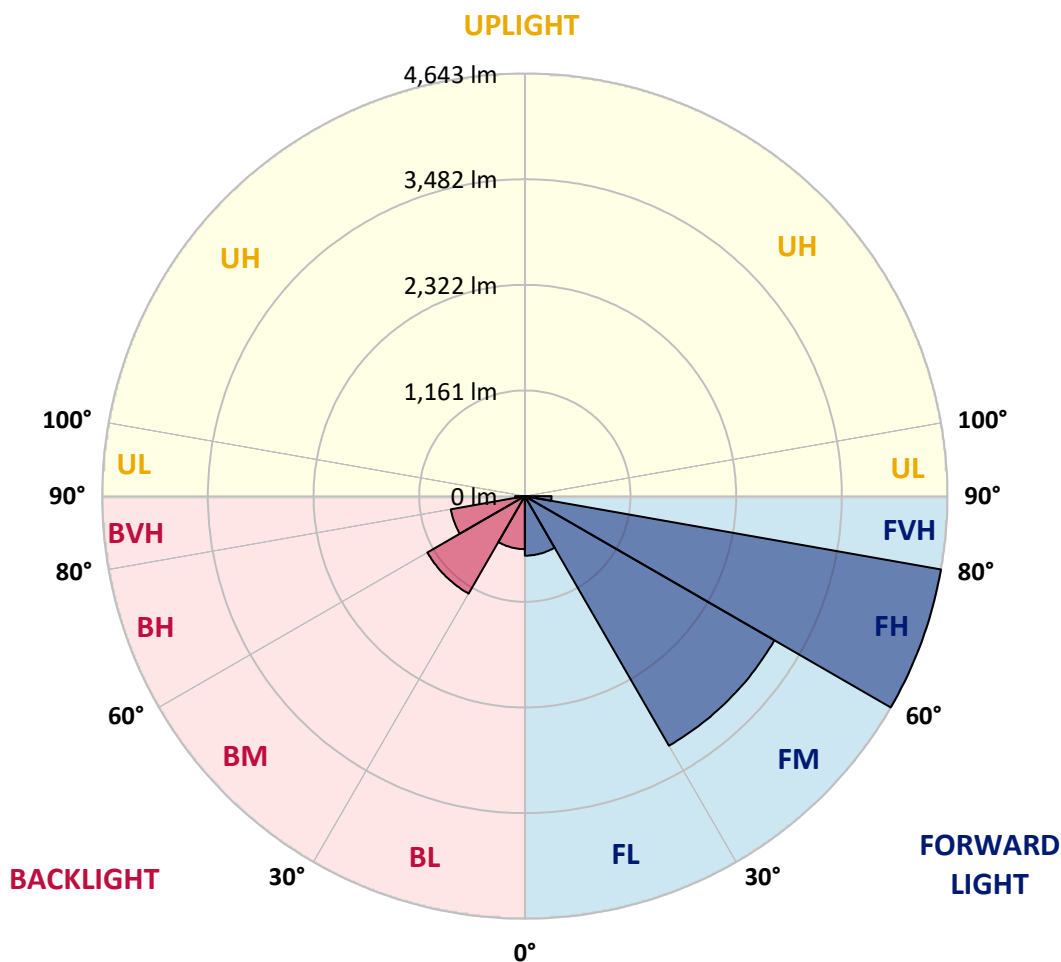
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 653.9 | 5.7 | | | |
| FM (30°-60°) | 3166.0 | 27.5 | | | |
| FH (60°-80°) | 4643.1 | 40.3 | | | G2/5000 |
| FVH (80°-90°) | 293.5 | 2.6 | | | G3/500 |
| BL (0°-30°) | 582.6 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1237.0 | 10.7 | B2/2500 | | |
| BH (60°-80°) | 825.7 | 7.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 107.1 | 0.9 | | | G2/225 |
| 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





REPORT NUMBER: P675286
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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 |
| 2.5° | 1310.2 | 1314.4 | 1314.4 | 1306.0 | 1297.6 | 1280.8 | 1280.8 | 1264.0 | 1255.6 | 1234.6 | 1226.2 |
| 5° | 1432.0 | 1419.4 | 1406.8 | 1402.6 | 1381.6 | 1352.2 | 1348.0 | 1331.2 | 1285.0 | 1264.0 | 1234.6 |
| 7.5° | 1520.1 | 1515.9 | 1511.7 | 1495.0 | 1457.2 | 1411.0 | 1398.4 | 1373.2 | 1327.0 | 1285.0 | 1251.4 |
| 10° | 1591.5 | 1608.3 | 1591.5 | 1553.7 | 1515.9 | 1465.6 | 1461.4 | 1415.2 | 1373.2 | 1322.8 | 1280.8 |
| 12.5° | 1671.3 | 1675.5 | 1646.1 | 1599.9 | 1541.1 | 1499.1 | 1482.4 | 1465.6 | 1419.4 | 1377.4 | 1314.4 |
| 15° | 1725.9 | 1717.5 | 1696.5 | 1633.5 | 1566.3 | 1524.3 | 1528.5 | 1507.5 | 1457.2 | 1427.8 | 1360.6 |
| 17.5° | 1725.9 | 1725.9 | 1692.3 | 1646.1 | 1587.3 | 1549.5 | 1549.5 | 1536.9 | 1503.3 | 1461.4 | 1415.2 |
| 20° | 1692.3 | 1692.3 | 1671.3 | 1646.1 | 1578.9 | 1570.5 | 1562.1 | 1553.7 | 1553.7 | 1515.9 | 1448.8 |
| 22.5° | 1650.3 | 1641.9 | 1650.3 | 1608.3 | 1562.1 | 1570.5 | 1583.1 | 1578.9 | 1566.3 | 1532.7 | 1486.6 |
| 25° | 1608.3 | 1612.5 | 1620.9 | 1591.5 | 1549.5 | 1587.3 | 1583.1 | 1604.1 | 1595.7 | 1570.5 | 1532.7 |
| 27.5° | 1604.1 | 1612.5 | 1616.7 | 1587.3 | 1570.5 | 1604.1 | 1620.9 | 1641.9 | 1646.1 | 1620.9 | 1574.7 |
| 30° | 1667.1 | 1662.9 | 1658.7 | 1620.9 | 1608.3 | 1637.7 | 1654.5 | 1683.9 | 1709.1 | 1654.5 | 1616.7 |
| 32.5° | 1830.9 | 1805.7 | 1780.5 | 1679.7 | 1641.9 | 1662.9 | 1679.7 | 1721.7 | 1725.9 | 1696.5 | 1641.9 |
| 35° | 2091.3 | 2074.5 | 1990.5 | 1814.1 | 1709.1 | 1688.1 | 1704.9 | 1734.3 | 1742.7 | 1721.7 | 1679.7 |
| 37.5° | 2389.4 | 2381.0 | 2263.4 | 2049.3 | 1847.7 | 1746.9 | 1730.1 | 1772.1 | 1805.7 | 1759.5 | 1700.7 |
| 40° | 2683.4 | 2649.8 | 2565.8 | 2355.8 | 2024.1 | 1835.1 | 1814.1 | 1835.1 | 1847.7 | 1814.1 | 1776.3 |
| 42.5° | 2947.9 | 2910.1 | 2889.1 | 2679.2 | 2255.0 | 1982.1 | 1965.3 | 1914.9 | 1952.7 | 1910.7 | 1860.3 |
| 45° | 3170.5 | 3162.1 | 3153.7 | 2973.1 | 2519.6 | 2221.4 | 2208.8 | 2078.7 | 2120.6 | 2087.1 | 2015.7 |
| 47.5° | 3330.0 | 3367.8 | 3355.2 | 3254.5 | 2821.9 | 2477.6 | 2439.8 | 2271.8 | 2334.8 | 2301.2 | 2229.8 |
| 50° | 3519.0 | 3540.0 | 3527.4 | 3460.2 | 3103.3 | 2771.5 | 2700.1 | 2528.0 | 2599.4 | 2595.2 | 2557.4 |
| 52.5° | 3687.0 | 3750.0 | 3678.6 | 3674.4 | 3506.4 | 3090.7 | 2968.9 | 2805.1 | 2922.7 | 2968.9 | 2964.7 |
| 55° | 3884.4 | 3934.7 | 3913.7 | 3905.3 | 3867.6 | 3401.4 | 3292.3 | 3094.9 | 3292.3 | 3359.4 | 3418.2 |
| 57.5° | 4052.3 | 4048.1 | 4127.9 | 4224.5 | 4270.7 | 3758.4 | 3628.2 | 3397.2 | 3695.4 | 3771.0 | 3934.7 |
| 60° | 4127.9 | 4199.3 | 4333.7 | 4577.2 | 4707.4 | 4140.5 | 4006.1 | 3821.4 | 4102.7 | 4161.5 | 4463.9 |
| 62.5° | 4178.3 | 4241.3 | 4501.6 | 4913.2 | 4988.8 | 4531.0 | 4405.1 | 4220.3 | 4547.8 | 4589.8 | 5039.2 |
| 65° | 4039.7 | 4098.5 | 4615.0 | 5039.2 | 5307.9 | 4951.0 | 4921.6 | 4728.4 | 4993.0 | 5018.2 | 5643.9 |
| 67.5° | 3880.2 | 3943.1 | 4518.4 | 5198.7 | 5732.0 | 5509.5 | 5463.3 | 5232.3 | 5433.9 | 5404.5 | 6105.8 |
| 70° | 3598.8 | 3682.8 | 4270.7 | 5337.3 | 6202.4 | 6290.5 | 6198.2 | 5870.6 | 5891.6 | 5614.5 | 6126.8 |
| 72.5° | 2742.1 | 2796.7 | 3342.6 | 4787.2 | 6420.7 | 7374.0 | 7214.4 | 6559.3 | 6319.9 | 5656.5 | 5408.7 |
| 75° | 1301.8 | 1402.6 | 1864.5 | 3166.3 | 5627.1 | 7424.4 | 7529.3 | 6899.4 | 6093.2 | 5018.2 | 3834.0 |
| 77.5° | 377.9 | 377.9 | 566.9 | 1343.8 | 3527.4 | 5984.0 | 6181.4 | 5858.0 | 5026.6 | 3716.4 | 2015.7 |
| 80° | 205.8 | 218.4 | 298.2 | 474.5 | 1549.5 | 3775.2 | 4060.7 | 3884.4 | 2960.5 | 1469.8 | 520.7 |
| 82.5° | 117.6 | 121.8 | 197.4 | 285.6 | 705.5 | 2053.5 | 2221.4 | 2015.7 | 1125.4 | 445.1 | 243.6 |
| 85° | 67.2 | 71.4 | 113.4 | 189.0 | 419.9 | 755.9 | 823.1 | 713.9 | 453.5 | 298.2 | 121.8 |
| 87.5° | 33.6 | 33.6 | 54.6 | 88.2 | 214.2 | 214.2 | 210.0 | 256.2 | 273.0 | 180.6 | 54.6 |
| 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° | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 | 1222.0 |
| 2.5° | 1222.0 | 1217.8 | 1217.8 | 1201.0 | 1196.8 | 1184.2 | 1184.2 | 1175.8 | 1171.6 | 1184.2 | 1184.2 |
| 5° | 1226.2 | 1205.2 | 1201.0 | 1184.2 | 1188.4 | 1180.0 | 1196.8 | 1188.4 | 1184.2 | 1184.2 | 1180.0 |
| 7.5° | 1234.6 | 1213.6 | 1196.8 | 1184.2 | 1180.0 | 1192.6 | 1213.6 | 1213.6 | 1238.8 | 1226.2 | 1226.2 |
| 10° | 1255.6 | 1243.0 | 1222.0 | 1213.6 | 1213.6 | 1226.2 | 1251.4 | 1268.2 | 1289.2 | 1289.2 | 1276.6 |
| 12.5° | 1306.0 | 1285.0 | 1259.8 | 1247.2 | 1264.0 | 1276.6 | 1301.8 | 1318.6 | 1343.8 | 1352.2 | 1343.8 |
| 15° | 1343.8 | 1322.8 | 1314.4 | 1306.0 | 1318.6 | 1335.4 | 1356.4 | 1373.2 | 1402.6 | 1411.0 | 1406.8 |
| 17.5° | 1394.2 | 1369.0 | 1364.8 | 1369.0 | 1377.4 | 1390.0 | 1402.6 | 1415.2 | 1436.2 | 1436.2 | 1436.2 |
| 20° | 1419.4 | 1411.0 | 1406.8 | 1419.4 | 1436.2 | 1453.0 | 1444.6 | 1436.2 | 1432.0 | 1440.4 | 1436.2 |
| 22.5° | 1465.6 | 1457.2 | 1461.4 | 1474.0 | 1474.0 | 1465.6 | 1453.0 | 1423.6 | 1415.2 | 1423.6 | 1415.2 |
| 25° | 1507.5 | 1499.1 | 1499.1 | 1490.8 | 1486.6 | 1457.2 | 1432.0 | 1406.8 | 1377.4 | 1390.0 | 1385.8 |
| 27.5° | 1549.5 | 1545.3 | 1545.3 | 1511.7 | 1469.8 | 1419.4 | 1385.8 | 1356.4 | 1339.6 | 1360.6 | 1348.0 |
| 30° | 1599.9 | 1604.1 | 1583.1 | 1503.3 | 1402.6 | 1348.0 | 1310.2 | 1306.0 | 1301.8 | 1314.4 | 1310.2 |
| 32.5° | 1646.1 | 1650.3 | 1616.7 | 1490.8 | 1352.2 | 1247.2 | 1209.4 | 1213.6 | 1234.6 | 1255.6 | 1276.6 |
| 35° | 1671.3 | 1692.3 | 1650.3 | 1448.8 | 1251.4 | 1133.8 | 1091.8 | 1129.6 | 1167.4 | 1196.8 | 1217.8 |
| 37.5° | 1717.5 | 1772.1 | 1700.7 | 1402.6 | 1163.2 | 1033.0 | 1003.6 | 1016.2 | 1062.4 | 1108.6 | 1129.6 |
| 40° | 1784.7 | 1847.7 | 1713.3 | 1314.4 | 1045.6 | 932.2 | 915.4 | 919.6 | 936.4 | 965.8 | 986.8 |
| 42.5° | 1902.3 | 1969.5 | 1725.9 | 1201.0 | 928.0 | 869.3 | 823.1 | 810.5 | 797.9 | 797.9 | 793.7 |
| 45° | 2074.5 | 2137.4 | 1709.1 | 1058.2 | 810.5 | 768.5 | 734.9 | 705.5 | 671.9 | 617.3 | 625.7 |
| 47.5° | 2326.4 | 2376.8 | 1721.7 | 932.2 | 701.3 | 667.7 | 642.5 | 608.9 | 558.5 | 499.7 | 495.5 |
| 50° | 2708.5 | 2633.0 | 1704.9 | 802.1 | 621.5 | 592.1 | 571.1 | 524.9 | 466.1 | 424.1 | 419.9 |
| 52.5° | 3153.7 | 3002.5 | 1688.1 | 692.9 | 554.3 | 529.1 | 512.3 | 461.9 | 407.3 | 386.3 | 382.1 |
| 55° | 3691.2 | 3472.8 | 1713.3 | 596.3 | 503.9 | 482.9 | 466.1 | 419.9 | 377.9 | 361.1 | 356.9 |
| 57.5° | 4325.3 | 3980.9 | 1851.9 | 520.7 | 449.3 | 440.9 | 436.7 | 398.9 | 361.1 | 348.5 | 344.3 |
| 60° | 4921.6 | 4468.1 | 1944.3 | 466.1 | 398.9 | 407.3 | 415.7 | 398.9 | 356.9 | 348.5 | 348.5 |
| 62.5° | 5421.3 | 4871.2 | 1797.3 | 419.9 | 373.7 | 398.9 | 436.7 | 424.1 | 407.3 | 415.7 | 407.3 |
| 65° | 5862.2 | 5009.8 | 1343.8 | 394.7 | 361.1 | 419.9 | 482.9 | 478.7 | 440.9 | 449.3 | 445.1 |
| 67.5° | 5937.8 | 4841.8 | 877.7 | 373.7 | 352.7 | 461.9 | 541.7 | 491.3 | 415.7 | 415.7 | 403.1 |
| 70° | 5622.9 | 4392.5 | 587.9 | 352.7 | 348.5 | 461.9 | 554.3 | 461.9 | 390.5 | 390.5 | 373.7 |
| 72.5° | 4615.0 | 3510.6 | 453.5 | 331.7 | 319.1 | 411.5 | 524.9 | 436.7 | 365.3 | 356.9 | 327.5 |
| 75° | 3031.9 | 2263.4 | 369.5 | 314.9 | 277.2 | 361.1 | 474.5 | 403.1 | 348.5 | 323.3 | 310.7 |
| 77.5° | 1486.6 | 1016.2 | 310.7 | 277.2 | 239.4 | 314.9 | 432.5 | 382.1 | 327.5 | 302.3 | 294.0 |
| 80° | 407.3 | 365.3 | 260.4 | 243.6 | 201.6 | 273.0 | 407.3 | 365.3 | 306.5 | 281.4 | 268.8 |
| 82.5° | 231.0 | 226.8 | 210.0 | 197.4 | 168.0 | 273.0 | 411.5 | 365.3 | 289.8 | 285.6 | 243.6 |
| 85° | 126.0 | 134.4 | 151.2 | 147.0 | 130.2 | 243.6 | 390.5 | 319.1 | 235.2 | 197.4 | 197.4 |
| 87.5° | 50.4 | 63.0 | 75.6 | 84.0 | 88.2 | 180.6 | 294.0 | 243.6 | 180.6 | 151.2 | 151.2 |
| 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)