

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: P401720

Luminaire Tested: **ENT-SA1E-760-U-SL2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1E-760-U-SL2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6948 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G2

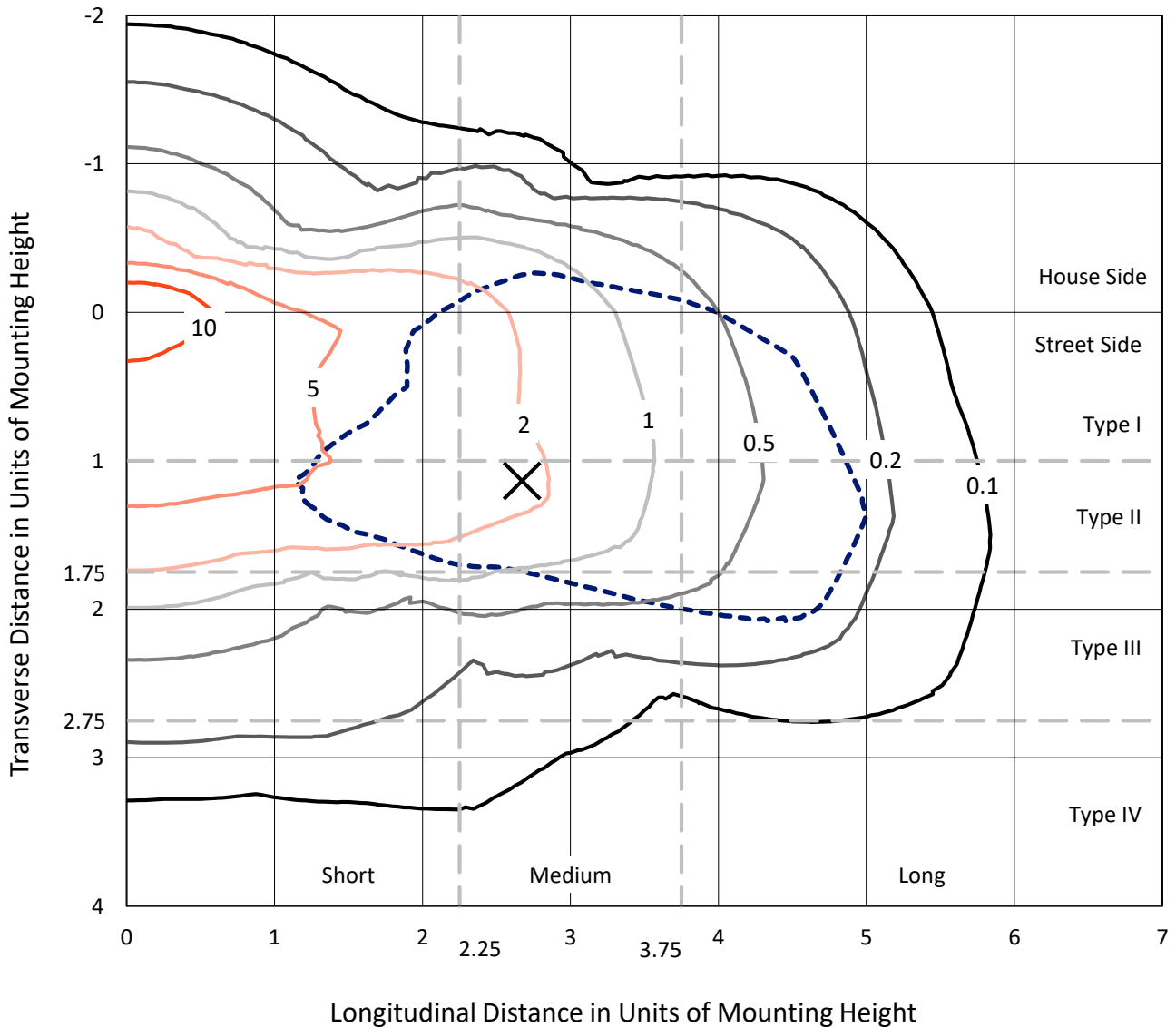
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

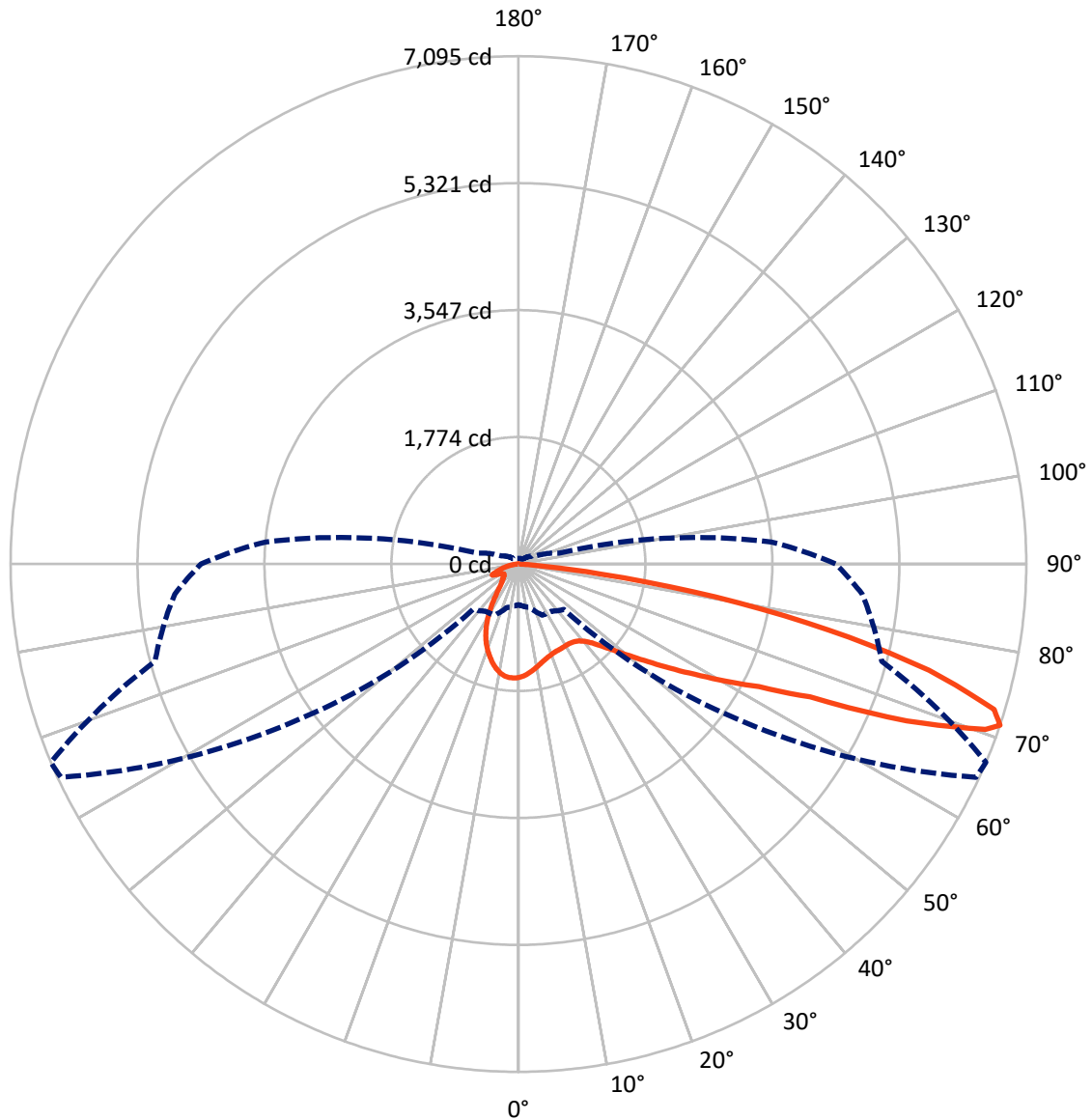
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1423.4 | 0.0 | 1423.4 |
| | % Fixture | 20.5 | 0.0 | 20.5 |
| Street Side | Lumens | 5524.6 | 0.0 | 5524.6 |
| | % Fixture | 79.5 | 0.0 | 79.5 |
| Total | Lumens | 6948.0 | 0.0 | 6948.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 140.4 | 2.0 |
| 10°-20° | 345.0 | 5.0 |
| 20°-30° | 465.8 | 6.7 |
| 30°-40° | 613.5 | 8.8 |
| 40°-50° | 873.8 | 12.6 |
| 50°-60° | 1334.9 | 19.2 |
| 60°-70° | 1666.8 | 24.0 |
| 70°-80° | 1345.5 | 19.4 |
| 80°-90° | 162.2 | 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° | 6948.0 | 100.0 |
| 0°-180° | 6948.0 | 100.0 |



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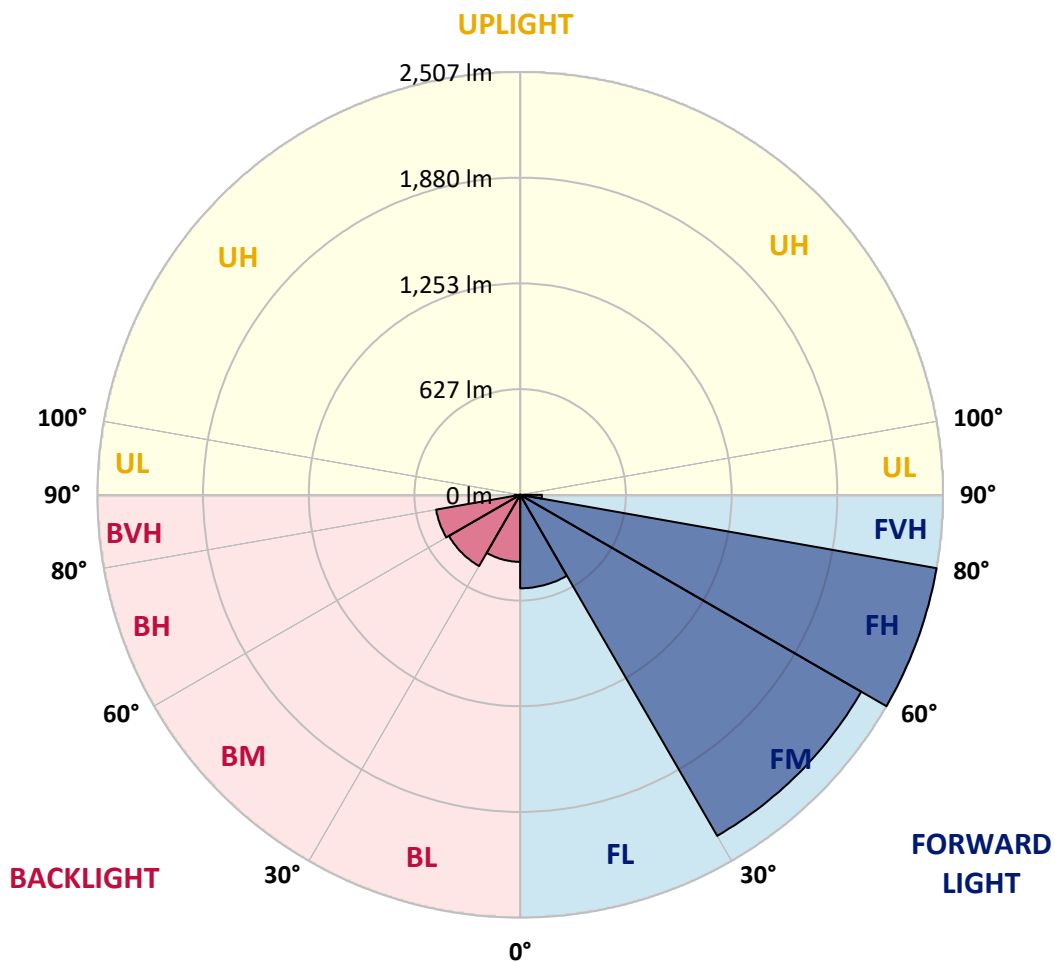
CATALOG NUMBER: ENT-SA1E-760-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 554.1 | 8.0 | | | |
| FM | (30°-60°) | 2334.6 | 33.6 | | | |
| FH | (60°-80°) | 2506.5 | 36.1 | | | G2/5000 |
| FVH | (80°-90°) | 129.3 | 1.9 | | | G2/225 |
| BL | (0°-30°) | 397.1 | 5.7 | B1/500 | | |
| BM | (30°-60°) | 487.6 | 7.0 | B1/1000 | | |
| BH | (60°-80°) | 505.8 | 7.3 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 32.8 | 0.5 | | | 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° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 |
| 2.5° | 1494.3 | 1501.3 | 1502.3 | 1516.3 | 1521.3 | 1537.3 | 1546.3 | 1561.3 | 1563.3 | 1572.3 | 1578.3 |
| 5° | 1397.3 | 1398.3 | 1404.3 | 1416.3 | 1435.3 | 1464.3 | 1486.3 | 1523.3 | 1530.3 | 1556.3 | 1579.3 |
| 7.5° | 1310.3 | 1315.3 | 1325.3 | 1343.3 | 1365.3 | 1399.3 | 1433.3 | 1484.3 | 1494.3 | 1536.3 | 1580.3 |
| 10° | 1251.3 | 1256.3 | 1264.3 | 1284.3 | 1306.3 | 1344.3 | 1385.3 | 1444.3 | 1455.3 | 1513.3 | 1577.3 |
| 12.5° | 1204.2 | 1209.3 | 1215.3 | 1237.3 | 1261.3 | 1299.3 | 1341.3 | 1407.3 | 1418.3 | 1485.3 | 1570.3 |
| 15° | 1173.2 | 1174.2 | 1182.2 | 1200.2 | 1227.3 | 1264.3 | 1306.3 | 1374.3 | 1387.3 | 1463.3 | 1568.3 |
| 17.5° | 1154.2 | 1156.2 | 1163.2 | 1177.2 | 1201.2 | 1237.3 | 1278.3 | 1347.3 | 1362.3 | 1445.3 | 1569.3 |
| 20° | 1155.2 | 1157.2 | 1161.2 | 1166.2 | 1183.2 | 1214.3 | 1257.3 | 1327.3 | 1342.3 | 1434.3 | 1576.3 |
| 22.5° | 1176.2 | 1177.2 | 1178.2 | 1171.2 | 1177.2 | 1199.2 | 1241.3 | 1313.3 | 1329.3 | 1429.3 | 1584.3 |
| 25° | 1216.3 | 1216.3 | 1214.3 | 1198.2 | 1185.2 | 1194.2 | 1232.3 | 1308.3 | 1324.3 | 1425.3 | 1592.3 |
| 27.5° | 1271.3 | 1275.3 | 1265.3 | 1246.3 | 1216.3 | 1201.2 | 1230.3 | 1304.3 | 1320.3 | 1425.3 | 1596.3 |
| 30° | 1346.3 | 1348.3 | 1344.3 | 1319.3 | 1270.3 | 1229.3 | 1236.3 | 1301.3 | 1317.3 | 1423.3 | 1597.3 |
| 32.5° | 1422.3 | 1428.3 | 1433.3 | 1411.3 | 1352.3 | 1279.3 | 1260.3 | 1305.3 | 1319.3 | 1422.3 | 1594.3 |
| 35° | 1499.3 | 1503.3 | 1527.3 | 1523.3 | 1459.3 | 1354.3 | 1299.3 | 1321.3 | 1333.3 | 1427.3 | 1596.3 |
| 37.5° | 1565.3 | 1574.3 | 1609.3 | 1636.3 | 1586.3 | 1456.3 | 1366.3 | 1356.3 | 1363.3 | 1452.3 | 1607.3 |
| 40° | 1636.3 | 1649.3 | 1701.4 | 1752.4 | 1730.4 | 1584.3 | 1461.3 | 1419.3 | 1417.3 | 1498.3 | 1634.3 |
| 42.5° | 1716.4 | 1731.4 | 1798.4 | 1872.4 | 1879.4 | 1747.4 | 1588.3 | 1508.3 | 1506.3 | 1577.3 | 1693.4 |
| 45° | 1810.4 | 1824.4 | 1915.4 | 2003.4 | 2046.4 | 1929.4 | 1744.4 | 1634.3 | 1635.3 | 1687.3 | 1787.4 |
| 47.5° | 1926.4 | 1948.4 | 2036.4 | 2148.4 | 2225.5 | 2134.4 | 1933.4 | 1810.4 | 1802.4 | 1853.4 | 1941.4 |
| 50° | 2089.4 | 2107.4 | 2180.5 | 2289.5 | 2424.5 | 2382.5 | 2171.4 | 2022.4 | 2016.4 | 2040.4 | 2147.4 |
| 52.5° | 2260.5 | 2266.5 | 2301.5 | 2414.5 | 2641.5 | 2683.6 | 2464.5 | 2285.5 | 2262.5 | 2275.5 | 2403.5 |
| 55° | 2270.5 | 2283.5 | 2306.5 | 2449.5 | 2836.6 | 3044.6 | 2787.6 | 2595.5 | 2565.5 | 2556.5 | 2694.6 |
| 57.5° | 2062.4 | 2083.4 | 2113.4 | 2298.5 | 2844.6 | 3461.7 | 3246.7 | 2957.6 | 2903.6 | 2858.6 | 3005.6 |
| 60° | 1621.3 | 1648.3 | 1703.4 | 1930.4 | 2641.5 | 3699.8 | 4012.8 | 3363.7 | 3315.7 | 3162.7 | 3309.7 |
| 62.5° | 1172.2 | 1183.2 | 1236.3 | 1338.3 | 2096.4 | 3713.8 | 4811.0 | 3893.8 | 3774.8 | 3458.7 | 3571.7 |
| 65° | 944.2 | 962.2 | 978.2 | 977.2 | 1241.3 | 3293.7 | 5341.1 | 4837.0 | 4477.9 | 3789.8 | 3859.8 |
| 67.5° | 778.2 | 784.2 | 823.2 | 891.2 | 844.2 | 2034.4 | 5394.1 | 6215.3 | 5851.2 | 4235.9 | 4201.9 |
| 70° | 650.1 | 652.1 | 691.1 | 813.2 | 808.2 | 1050.2 | 4522.9 | 7008.5 | 6920.4 | 4968.0 | 4737.0 |
| 71° | 569.1 | 586.1 | 629.1 | 787.2 | 804.2 | 897.2 | 3842.8 | 7050.5 | 7094.5 | 5255.1 | 4820.0 |
| 72.5° | 448.1 | 448.1 | 509.1 | 722.1 | 811.2 | 828.2 | 2831.6 | 6821.4 | 6948.4 | 5581.2 | 4676.0 |
| 75° | 263.1 | 261.1 | 294.1 | 503.1 | 829.2 | 825.2 | 1546.3 | 5669.2 | 5926.2 | 5640.2 | 4327.9 |
| 77.5° | 148.0 | 151.0 | 169.0 | 280.1 | 658.1 | 792.2 | 888.2 | 4127.9 | 4430.9 | 4718.0 | 3659.8 |
| 80° | 68.0 | 72.0 | 85.0 | 136.0 | 388.1 | 684.1 | 634.1 | 2680.6 | 2795.6 | 2835.6 | 1729.4 |
| 82.5° | 18.0 | 20.0 | 26.0 | 52.0 | 150.0 | 466.1 | 469.1 | 1122.2 | 1159.2 | 670.1 | 371.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 57.0 | 133.0 | 202.0 | 168.0 | 89.0 | 76.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 3.0 | 4.0 | 4.0 | 4.0 | 5.0 |
| 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° | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 | 1584.3 |
| 2.5° | 1583.3 | 1587.3 | 1594.3 | 1593.3 | 1591.3 | 1579.3 | 1586.3 | 1579.3 | 1578.3 | 1575.3 | 1576.3 |
| 5° | 1587.3 | 1593.3 | 1597.3 | 1588.3 | 1573.3 | 1547.3 | 1538.3 | 1515.3 | 1500.3 | 1492.3 | 1488.3 |
| 7.5° | 1593.3 | 1597.3 | 1595.3 | 1570.3 | 1531.3 | 1482.3 | 1440.3 | 1407.3 | 1372.3 | 1366.3 | 1364.3 |
| 10° | 1593.3 | 1597.3 | 1581.3 | 1533.3 | 1466.3 | 1389.3 | 1325.3 | 1271.3 | 1217.3 | 1197.2 | 1200.2 |
| 12.5° | 1589.3 | 1591.3 | 1554.3 | 1477.3 | 1380.3 | 1275.3 | 1185.2 | 1096.2 | 1027.2 | 985.2 | 977.2 |
| 15° | 1586.3 | 1583.3 | 1518.3 | 1407.3 | 1278.3 | 1148.2 | 1012.2 | 892.2 | 810.2 | 755.2 | 748.2 |
| 17.5° | 1586.3 | 1575.3 | 1475.3 | 1327.3 | 1167.2 | 988.2 | 808.2 | 678.1 | 587.1 | 555.1 | 554.1 |
| 20° | 1588.3 | 1564.3 | 1429.3 | 1244.3 | 1029.2 | 798.2 | 603.1 | 492.1 | 458.1 | 453.1 | 454.1 |
| 22.5° | 1590.3 | 1549.3 | 1379.3 | 1150.2 | 875.2 | 595.1 | 431.1 | 391.1 | 394.1 | 406.1 | 405.1 |
| 25° | 1588.3 | 1529.3 | 1320.3 | 1045.2 | 707.1 | 429.1 | 348.1 | 338.1 | 356.1 | 370.1 | 374.1 |
| 27.5° | 1583.3 | 1503.3 | 1257.3 | 920.2 | 539.1 | 338.1 | 304.1 | 303.1 | 321.1 | 334.1 | 333.1 |
| 30° | 1568.3 | 1472.3 | 1184.2 | 788.2 | 389.1 | 288.1 | 274.1 | 277.1 | 289.1 | 301.1 | 301.1 |
| 32.5° | 1552.3 | 1437.3 | 1107.2 | 644.1 | 299.1 | 261.1 | 256.1 | 257.1 | 265.1 | 274.1 | 273.1 |
| 35° | 1535.3 | 1403.3 | 1028.2 | 494.1 | 262.1 | 245.1 | 243.1 | 242.1 | 245.1 | 247.1 | 247.1 |
| 37.5° | 1525.3 | 1373.3 | 941.2 | 372.1 | 242.1 | 235.0 | 231.0 | 227.0 | 226.0 | 224.0 | 222.0 |
| 40° | 1529.3 | 1353.3 | 857.2 | 288.1 | 230.0 | 224.0 | 218.0 | 212.0 | 208.0 | 206.0 | 205.0 |
| 42.5° | 1557.3 | 1347.3 | 764.2 | 248.1 | 219.0 | 214.0 | 206.0 | 196.0 | 192.0 | 192.0 | 191.0 |
| 45° | 1622.3 | 1365.3 | 677.1 | 228.0 | 209.0 | 203.0 | 190.0 | 183.0 | 180.0 | 181.0 | 181.0 |
| 47.5° | 1724.4 | 1416.3 | 599.1 | 218.0 | 202.0 | 193.0 | 178.0 | 171.0 | 169.0 | 170.0 | 170.0 |
| 50° | 1877.4 | 1512.3 | 519.1 | 209.0 | 194.0 | 182.0 | 169.0 | 161.0 | 158.0 | 158.0 | 158.0 |
| 52.5° | 2101.4 | 1670.3 | 461.1 | 203.0 | 187.0 | 173.0 | 160.0 | 151.0 | 147.0 | 147.0 | 146.0 |
| 55° | 2374.5 | 1876.4 | 439.1 | 199.0 | 178.0 | 165.0 | 151.0 | 142.0 | 136.0 | 134.0 | 135.0 |
| 57.5° | 2673.6 | 2143.4 | 471.1 | 198.0 | 168.0 | 156.0 | 142.0 | 131.0 | 125.0 | 124.0 | 123.0 |
| 60° | 2981.6 | 2408.5 | 563.1 | 193.0 | 160.0 | 145.0 | 132.0 | 122.0 | 116.0 | 114.0 | 113.0 |
| 62.5° | 3247.7 | 2672.6 | 715.1 | 189.0 | 154.0 | 135.0 | 121.0 | 112.0 | 107.0 | 104.0 | 104.0 |
| 65° | 3568.7 | 2975.6 | 947.2 | 194.0 | 151.0 | 125.0 | 111.0 | 103.0 | 99.0 | 96.0 | 96.0 |
| 67.5° | 4006.8 | 3424.7 | 1123.2 | 218.0 | 158.0 | 117.0 | 100.0 | 94.0 | 91.0 | 89.0 | 89.0 |
| 70° | 4437.9 | 3676.8 | 781.2 | 256.1 | 176.0 | 110.0 | 90.0 | 86.0 | 84.0 | 82.0 | 82.0 |
| 71° | 4431.9 | 3541.7 | 587.1 | 265.1 | 182.0 | 108.0 | 86.0 | 83.0 | 81.0 | 80.0 | 79.0 |
| 72.5° | 4209.9 | 3219.7 | 421.1 | 257.1 | 179.0 | 102.0 | 81.0 | 78.0 | 76.0 | 76.0 | 75.0 |
| 75° | 3775.8 | 2837.6 | 329.1 | 215.0 | 150.0 | 91.0 | 72.0 | 70.0 | 68.0 | 67.0 | 68.0 |
| 77.5° | 3093.6 | 2270.5 | 259.1 | 170.0 | 114.0 | 75.0 | 64.0 | 61.0 | 60.0 | 59.0 | 60.0 |
| 80° | 1421.3 | 989.2 | 189.0 | 132.0 | 85.0 | 60.0 | 54.0 | 53.0 | 52.0 | 51.0 | 51.0 |
| 82.5° | 342.1 | 277.1 | 101.0 | 88.0 | 58.0 | 46.0 | 43.0 | 43.0 | 43.0 | 42.0 | 42.0 |
| 85° | 75.0 | 75.0 | 41.0 | 41.0 | 35.0 | 32.0 | 34.0 | 34.0 | 34.0 | 32.0 | 32.0 |
| 87.5° | 4.0 | 12.0 | 13.0 | 19.0 | 20.0 | 19.0 | 23.0 | 24.0 | 23.0 | 22.0 | 21.0 |
| 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)