

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: P673699

Luminaire Tested: **CCP-SA-1F-740-U-SL2-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673699
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-740-U-SL2-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ SL2 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

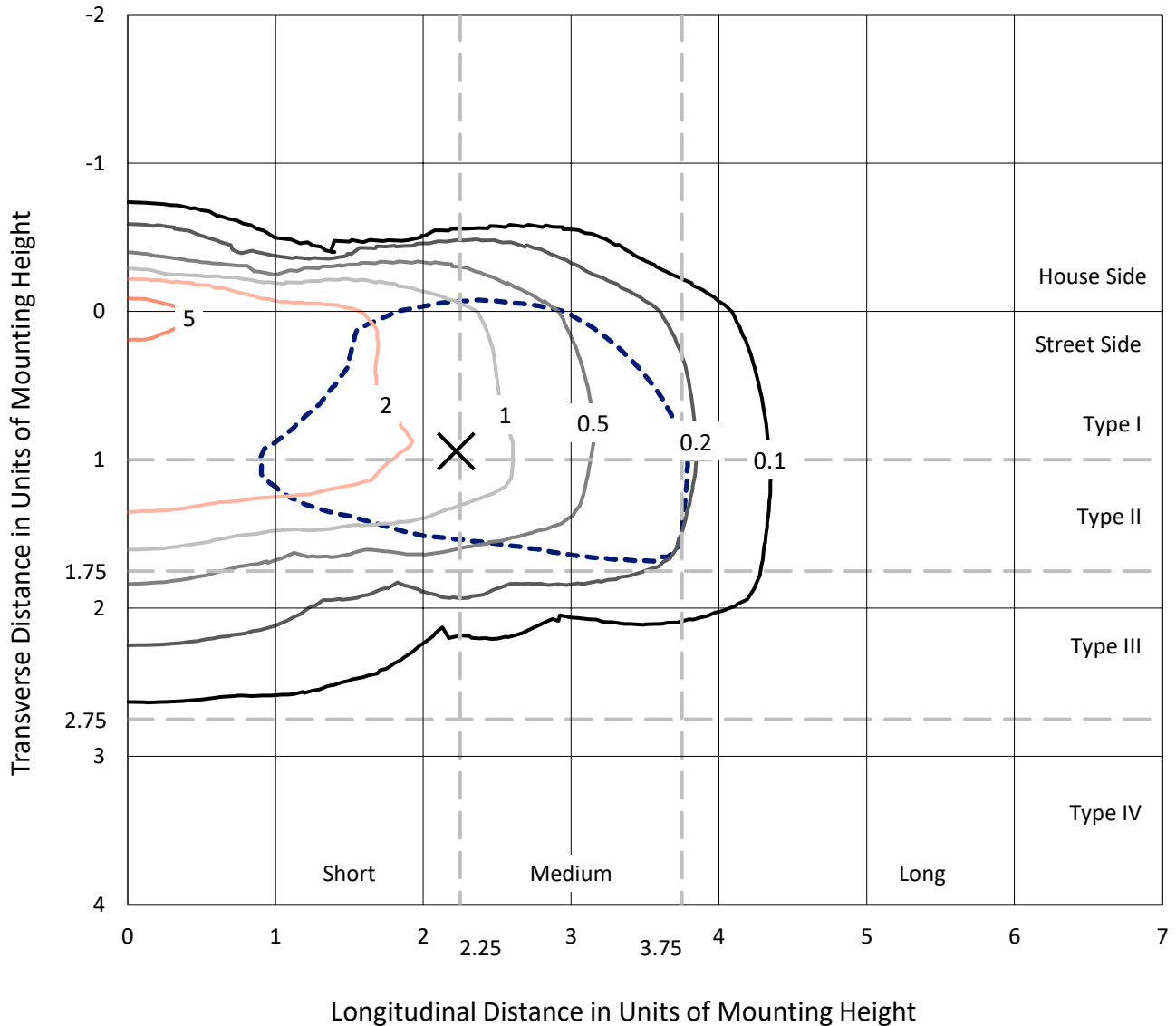
Lumens per Lamp: N/A
Luminaire Lumens: 6029.3 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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: P673699
 CATALOG NUMBER: CCP-SA-1F-740-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

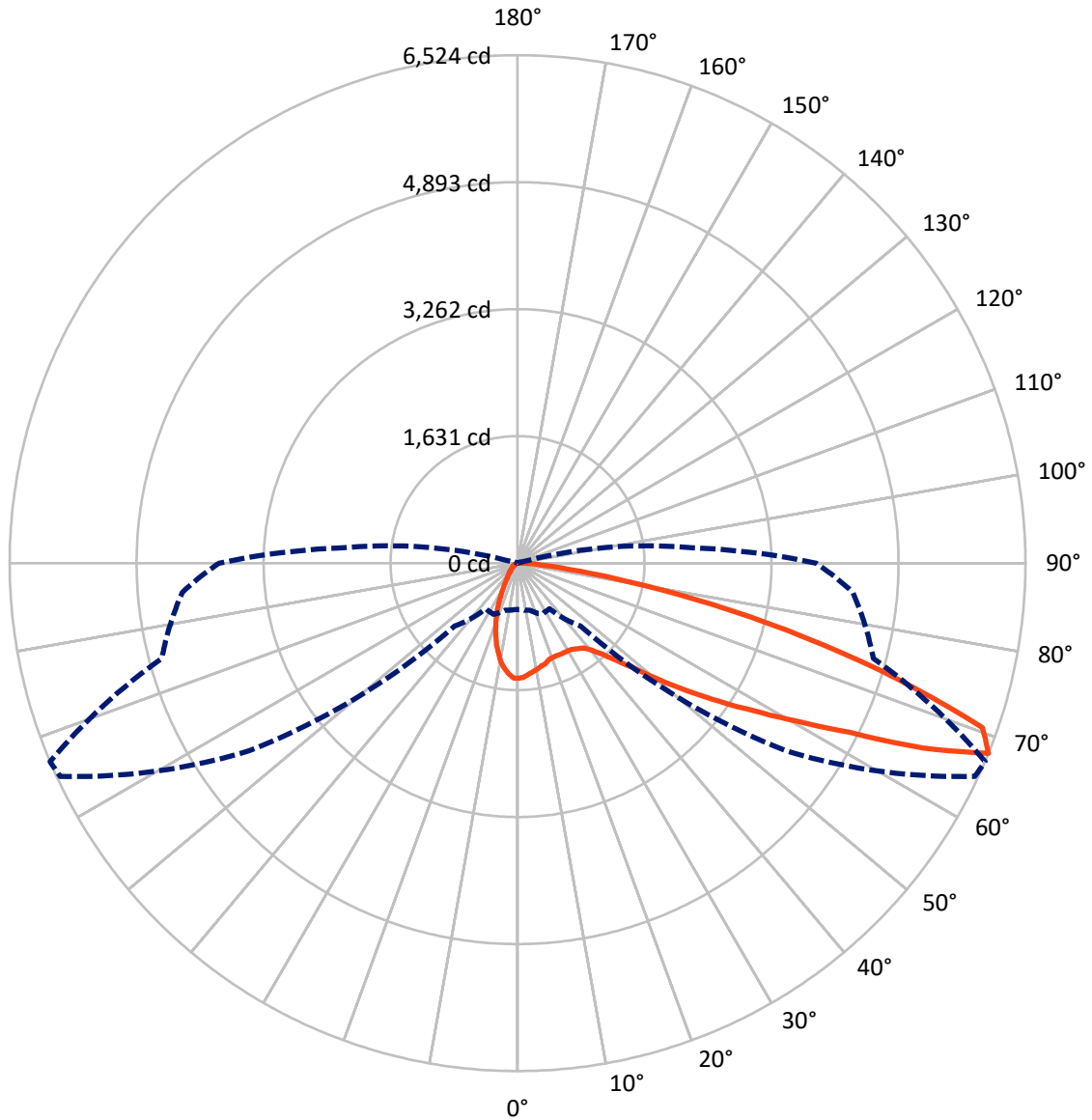
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 758.8 | 0.0 | 758.8 |
| | % Fixture | 12.6 | 0.0 | 12.6 |
| Street Side | Lumens | 5270.5 | 0.0 | 5270.5 |
| | % Fixture | 87.4 | 0.0 | 87.4 |
| Total | Lumens | 6029.3 | 0.0 | 6029.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 124.6 | 2.1 |
| 10°-20° | 276.8 | 4.6 |
| 20°-30° | 393.6 | 6.5 |
| 30°-40° | 573.1 | 9.5 |
| 40°-50° | 887.0 | 14.7 |
| 50°-60° | 1361.3 | 22.6 |
| 60°-70° | 1475.7 | 24.5 |
| 70°-80° | 832.5 | 13.8 |
| 80°-90° | 104.6 | 1.7 |
| 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° | 6029.3 | 100.0 |
| 0°-180° | 6029.3 | 100.0 |



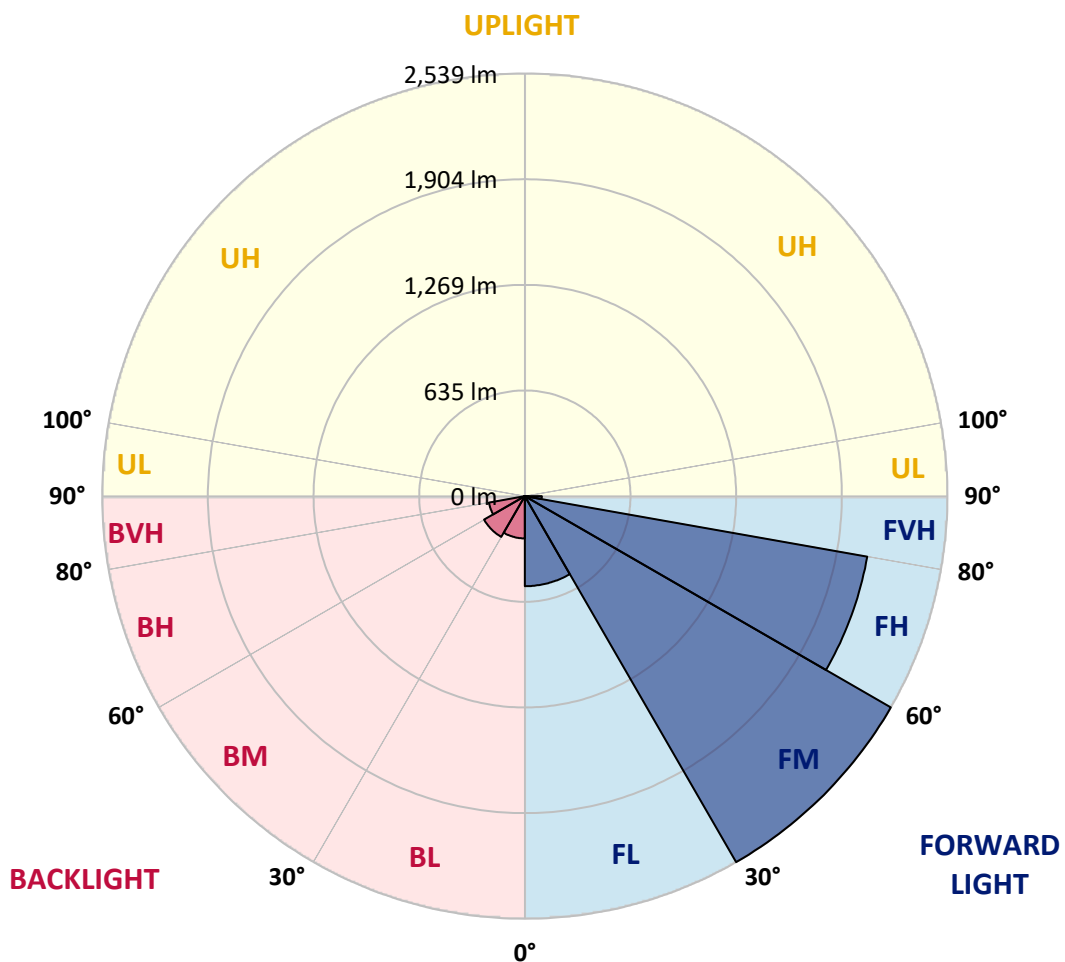
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 CATALOG NUMBER: CCP-SA-1F-740-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 541.0 | 9.0 | | | |
| FM (30°-60°) | 2538.9 | 42.1 | | | |
| FH (60°-80°) | 2089.0 | 34.6 | | | G2/5000 |
| FVH (80°-90°) | 101.6 | 1.7 | | | G2/225 |
| BL (0°-30°) | 254.0 | 4.2 | B1/500 | | |
| BM (30°-60°) | 282.6 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 219.2 | 3.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.0 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 |
| 2.5° | 1415.0 | 1422.2 | 1432.4 | 1446.9 | 1457.1 | 1451.3 | 1455.6 | 1480.3 | 1467.3 | 1478.9 | 1473.1 |
| 5° | 1336.5 | 1343.8 | 1358.3 | 1356.8 | 1368.5 | 1390.3 | 1419.3 | 1451.3 | 1436.7 | 1471.6 | 1484.7 |
| 7.5° | 1255.2 | 1252.3 | 1252.3 | 1282.8 | 1307.5 | 1338.0 | 1353.9 | 1406.2 | 1407.7 | 1438.2 | 1470.2 |
| 10° | 1181.1 | 1189.8 | 1204.3 | 1215.9 | 1239.2 | 1282.8 | 1329.2 | 1369.9 | 1385.9 | 1446.9 | 1455.6 |
| 12.5° | 1136.0 | 1140.4 | 1157.8 | 1168.0 | 1198.5 | 1240.6 | 1290.0 | 1342.3 | 1355.4 | 1417.9 | 1460.0 |
| 15° | 1117.1 | 1127.3 | 1133.1 | 1152.0 | 1168.0 | 1207.2 | 1243.5 | 1303.1 | 1340.9 | 1390.3 | 1442.6 |
| 17.5° | 1131.7 | 1127.3 | 1130.2 | 1136.0 | 1154.9 | 1189.8 | 1229.0 | 1288.6 | 1301.6 | 1384.4 | 1462.9 |
| 20° | 1150.6 | 1152.0 | 1143.3 | 1140.4 | 1136.0 | 1169.4 | 1201.4 | 1278.4 | 1292.9 | 1384.4 | 1476.0 |
| 22.5° | 1201.4 | 1185.4 | 1201.4 | 1178.2 | 1154.9 | 1169.4 | 1200.0 | 1279.9 | 1290.0 | 1383.0 | 1489.0 |
| 25° | 1263.9 | 1266.8 | 1271.1 | 1221.7 | 1188.3 | 1178.2 | 1210.1 | 1284.2 | 1292.9 | 1394.6 | 1494.9 |
| 27.5° | 1352.5 | 1365.6 | 1343.8 | 1319.1 | 1252.3 | 1201.4 | 1208.7 | 1281.3 | 1297.3 | 1388.8 | 1509.4 |
| 30° | 1471.6 | 1461.4 | 1464.3 | 1407.7 | 1342.3 | 1262.4 | 1242.1 | 1288.6 | 1300.2 | 1396.1 | 1537.0 |
| 32.5° | 1574.8 | 1563.1 | 1583.5 | 1563.1 | 1460.0 | 1349.6 | 1281.3 | 1303.1 | 1316.2 | 1413.5 | 1560.2 |
| 35° | 1638.7 | 1653.2 | 1685.2 | 1707.0 | 1619.8 | 1462.9 | 1346.7 | 1342.3 | 1348.1 | 1422.2 | 1577.7 |
| 37.5° | 1737.5 | 1763.6 | 1789.8 | 1845.0 | 1769.4 | 1602.4 | 1449.8 | 1393.2 | 1383.0 | 1464.3 | 1586.4 |
| 40° | 1845.0 | 1837.7 | 1914.7 | 1980.1 | 1977.2 | 1798.5 | 1593.6 | 1483.2 | 1468.7 | 1531.2 | 1644.5 |
| 42.5° | 1935.0 | 1927.8 | 2013.5 | 2121.0 | 2132.6 | 1987.3 | 1757.8 | 1611.1 | 1598.0 | 1634.3 | 1715.7 |
| 45° | 2052.7 | 2058.5 | 2160.2 | 2288.0 | 2330.2 | 2237.2 | 1980.1 | 1794.1 | 1786.9 | 1775.2 | 1850.8 |
| 47.5° | 2157.3 | 2189.3 | 2276.4 | 2427.5 | 2580.0 | 2495.8 | 2241.6 | 2061.4 | 2010.6 | 1984.4 | 2060.0 |
| 50° | 2229.9 | 2259.0 | 2365.0 | 2526.3 | 2805.2 | 2859.0 | 2535.0 | 2346.2 | 2347.6 | 2283.7 | 2324.4 |
| 52.5° | 2229.9 | 2228.5 | 2314.2 | 2526.3 | 2962.1 | 3238.1 | 2927.2 | 2705.0 | 2716.6 | 2649.8 | 2652.7 |
| 55° | 2014.9 | 2010.6 | 2115.2 | 2340.3 | 2944.7 | 3602.8 | 3521.4 | 3159.7 | 3130.6 | 3001.3 | 3014.4 |
| 57.5° | 1622.7 | 1632.9 | 1712.8 | 1983.0 | 2718.1 | 3772.7 | 4228.9 | 3671.0 | 3572.3 | 3305.0 | 3305.0 |
| 60° | 1184.0 | 1175.3 | 1234.8 | 1423.7 | 2177.6 | 3708.8 | 4810.0 | 4273.9 | 4118.5 | 3556.3 | 3518.5 |
| 62.5° | 900.7 | 899.2 | 915.2 | 979.1 | 1381.5 | 3233.8 | 5059.9 | 5041.0 | 4788.2 | 3803.2 | 3749.5 |
| 65° | 727.8 | 730.7 | 752.5 | 797.5 | 844.0 | 2205.2 | 4927.7 | 5956.2 | 5725.2 | 4170.8 | 3995.0 |
| 67.5° | 594.2 | 601.4 | 627.6 | 724.9 | 714.7 | 1141.8 | 4196.9 | 6480.6 | 6524.2 | 4731.5 | 4324.8 |
| 70° | 457.6 | 469.2 | 499.7 | 637.7 | 688.6 | 759.8 | 2909.8 | 6219.1 | 6335.3 | 5080.2 | 4125.7 |
| 72.5° | 310.9 | 309.4 | 374.8 | 517.2 | 695.9 | 695.9 | 1619.8 | 5009.0 | 5119.4 | 4683.6 | 3583.9 |
| 75° | 168.5 | 178.7 | 248.4 | 390.8 | 637.7 | 672.6 | 922.5 | 3665.2 | 3820.7 | 3642.0 | 2771.8 |
| 77.5° | 91.5 | 93.0 | 138.0 | 255.7 | 530.2 | 642.1 | 616.0 | 2492.9 | 2553.9 | 2196.5 | 1518.1 |
| 80° | 47.9 | 49.4 | 72.6 | 167.1 | 366.1 | 595.6 | 512.8 | 1486.1 | 1428.0 | 842.6 | 501.2 |
| 82.5° | 21.8 | 23.2 | 36.3 | 104.6 | 233.9 | 469.2 | 443.1 | 717.6 | 662.4 | 235.3 | 152.5 |
| 85° | 8.7 | 8.7 | 16.0 | 62.5 | 136.6 | 231.0 | 379.2 | 360.3 | 300.7 | 71.2 | 75.5 |
| 87.5° | 2.9 | 2.9 | 4.4 | 24.7 | 55.2 | 138.0 | 201.9 | 190.3 | 130.7 | 26.1 | 40.7 |
| 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° | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 | 1478.9 |
| 2.5° | 1467.3 | 1483.2 | 1478.9 | 1476.0 | 1448.4 | 1445.5 | 1442.6 | 1416.4 | 1425.1 | 1403.3 | 1417.9 |
| 5° | 1476.0 | 1484.7 | 1461.4 | 1417.9 | 1378.6 | 1335.1 | 1301.6 | 1278.4 | 1236.3 | 1220.3 | 1217.4 |
| 7.5° | 1467.3 | 1467.3 | 1419.3 | 1349.6 | 1272.6 | 1201.4 | 1111.3 | 1047.4 | 999.5 | 963.2 | 976.2 |
| 10° | 1455.6 | 1438.2 | 1388.8 | 1265.3 | 1125.9 | 1018.4 | 889.1 | 794.6 | 723.5 | 700.2 | 685.7 |
| 12.5° | 1455.6 | 1425.1 | 1314.7 | 1146.2 | 966.1 | 803.4 | 649.4 | 525.9 | 457.6 | 416.9 | 411.1 |
| 15° | 1442.6 | 1397.5 | 1261.0 | 1034.3 | 810.6 | 589.8 | 414.0 | 308.0 | 249.9 | 233.9 | 228.1 |
| 17.5° | 1445.5 | 1391.7 | 1181.1 | 902.1 | 629.0 | 392.2 | 252.8 | 194.7 | 180.1 | 172.9 | 174.3 |
| 20° | 1451.3 | 1391.7 | 1109.9 | 772.9 | 453.3 | 244.1 | 174.3 | 164.2 | 156.9 | 154.0 | 155.4 |
| 22.5° | 1470.2 | 1364.1 | 1037.2 | 640.7 | 306.5 | 175.8 | 154.0 | 143.8 | 138.0 | 133.7 | 132.2 |
| 25° | 1473.1 | 1359.8 | 967.5 | 509.9 | 210.6 | 148.2 | 135.1 | 123.5 | 116.2 | 110.4 | 109.0 |
| 27.5° | 1468.7 | 1340.9 | 870.2 | 379.2 | 158.3 | 132.2 | 114.8 | 103.1 | 93.0 | 88.6 | 87.2 |
| 30° | 1484.7 | 1306.0 | 787.4 | 273.1 | 133.7 | 114.8 | 97.3 | 84.3 | 75.5 | 69.7 | 69.7 |
| 32.5° | 1486.1 | 1275.5 | 695.9 | 194.7 | 122.0 | 101.7 | 82.8 | 68.3 | 59.6 | 56.7 | 56.7 |
| 35° | 1487.6 | 1247.9 | 594.2 | 148.2 | 109.0 | 87.2 | 68.3 | 56.7 | 50.8 | 46.5 | 46.5 |
| 37.5° | 1492.0 | 1227.6 | 501.2 | 124.9 | 97.3 | 74.1 | 56.7 | 46.5 | 40.7 | 39.2 | 39.2 |
| 40° | 1500.7 | 1200.0 | 403.9 | 110.4 | 84.3 | 62.5 | 47.9 | 39.2 | 33.4 | 32.0 | 30.5 |
| 42.5° | 1523.9 | 1192.7 | 322.5 | 98.8 | 75.5 | 52.3 | 39.2 | 32.0 | 27.6 | 24.7 | 23.2 |
| 45° | 1619.8 | 1211.6 | 249.9 | 91.5 | 63.9 | 43.6 | 33.4 | 26.1 | 20.3 | 18.9 | 17.4 |
| 47.5° | 1776.7 | 1274.0 | 197.6 | 81.4 | 53.8 | 36.3 | 27.6 | 20.3 | 16.0 | 14.5 | 13.1 |
| 50° | 2014.9 | 1416.4 | 161.3 | 72.6 | 45.0 | 30.5 | 21.8 | 16.0 | 11.6 | 10.2 | 10.2 |
| 52.5° | 2327.3 | 1608.2 | 139.5 | 63.9 | 36.3 | 26.1 | 17.4 | 11.6 | 8.7 | 7.3 | 7.3 |
| 55° | 2646.9 | 1834.8 | 130.7 | 55.2 | 30.5 | 21.8 | 13.1 | 8.7 | 5.8 | 4.4 | 4.4 |
| 57.5° | 2940.3 | 1981.5 | 126.4 | 45.0 | 26.1 | 16.0 | 10.2 | 5.8 | 2.9 | 1.5 | 1.5 |
| 60° | 3123.4 | 2089.0 | 113.3 | 36.3 | 20.3 | 13.1 | 7.3 | 2.9 | 1.5 | 0.0 | 0.0 |
| 62.5° | 3364.5 | 2198.0 | 93.0 | 27.6 | 14.5 | 8.7 | 4.4 | 1.5 | 0.0 | 0.0 | 0.0 |
| 65° | 3682.7 | 2320.0 | 72.6 | 21.8 | 11.6 | 5.8 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3835.2 | 2256.1 | 49.4 | 16.0 | 7.3 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 3530.1 | 1900.2 | 34.9 | 11.6 | 4.4 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2967.9 | 1489.0 | 26.1 | 7.3 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2187.8 | 931.2 | 20.3 | 5.8 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1160.7 | 347.2 | 14.5 | 4.4 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 342.8 | 101.7 | 10.2 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 113.3 | 30.5 | 5.8 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 58.1 | 11.6 | 2.9 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 33.4 | 4.4 | 2.9 | 2.9 | 1.5 | 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)