

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: P676854

Luminaire Tested: **CCW-SA-1E-740-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676854
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-740-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

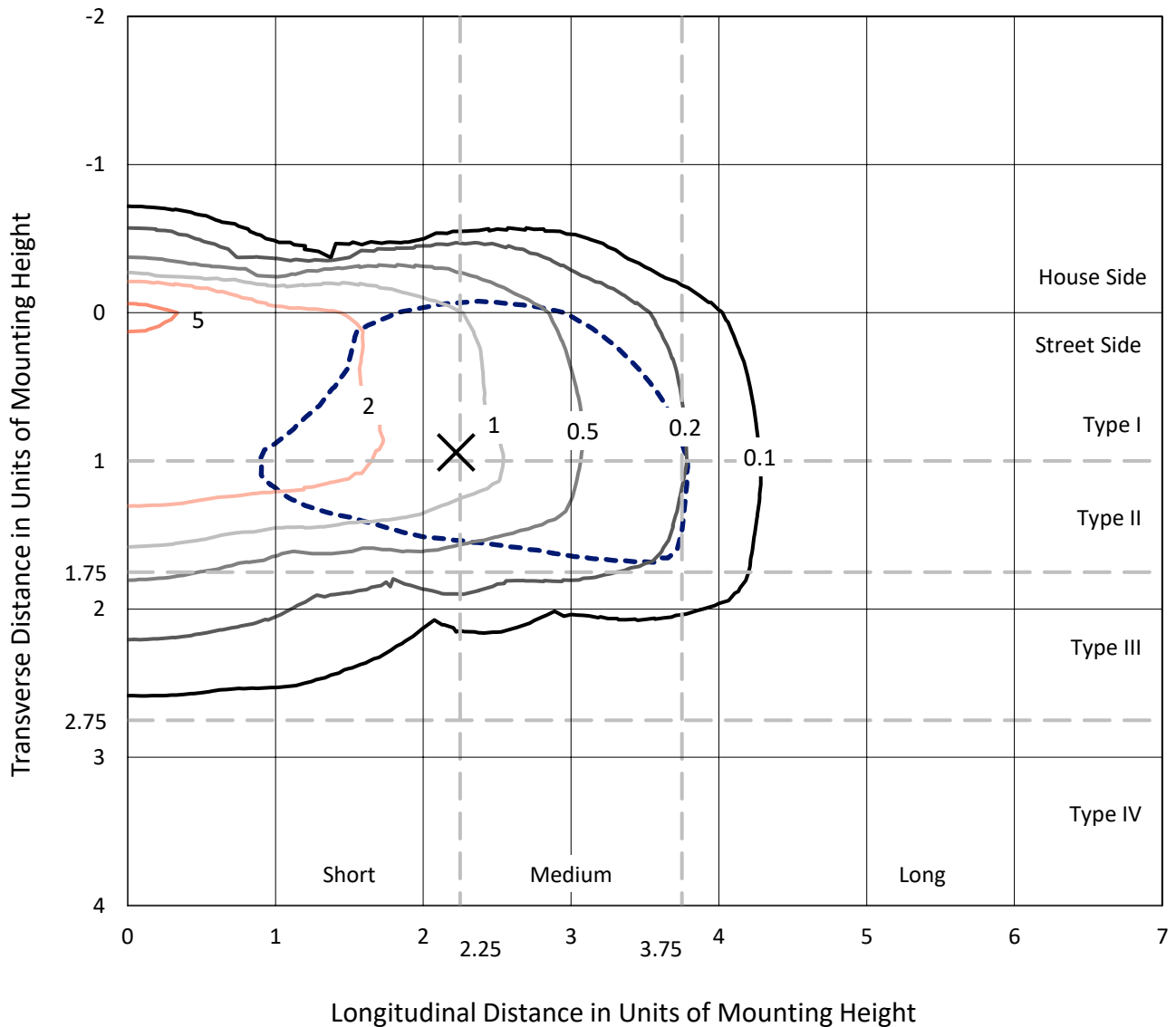
Lumens per Lamp: N/A
Luminaire Lumens: 5498 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (A_{in}): 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: P676854
 CATALOG NUMBER: CCW-SA-1E-740-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

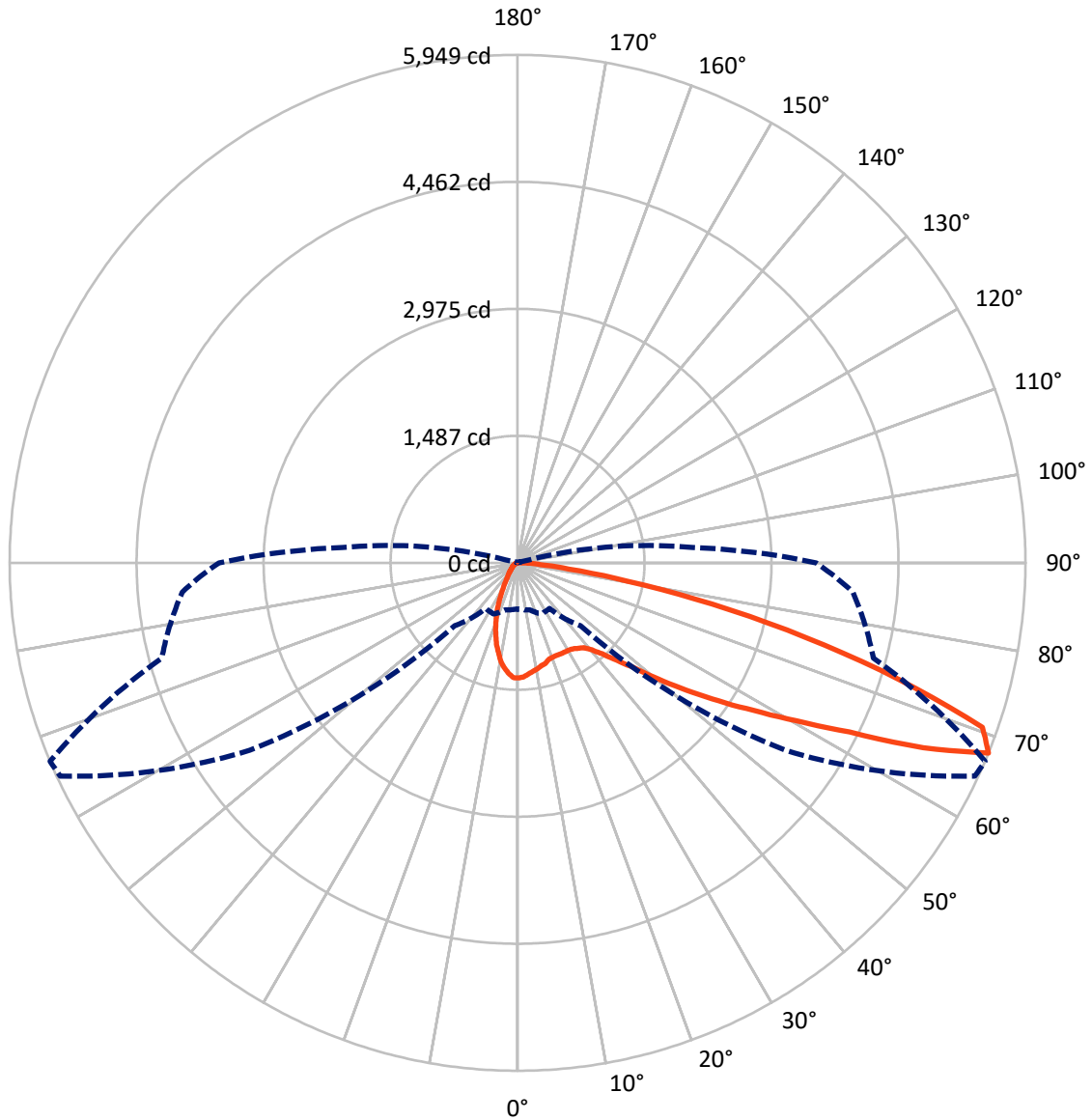
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

REPORT NUMBER: P676854
CATALOG NUMBER: CCW-SA-1E-740-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676854
 CATALOG NUMBER: CCW-SA-1E-740-U-SL2-HSS

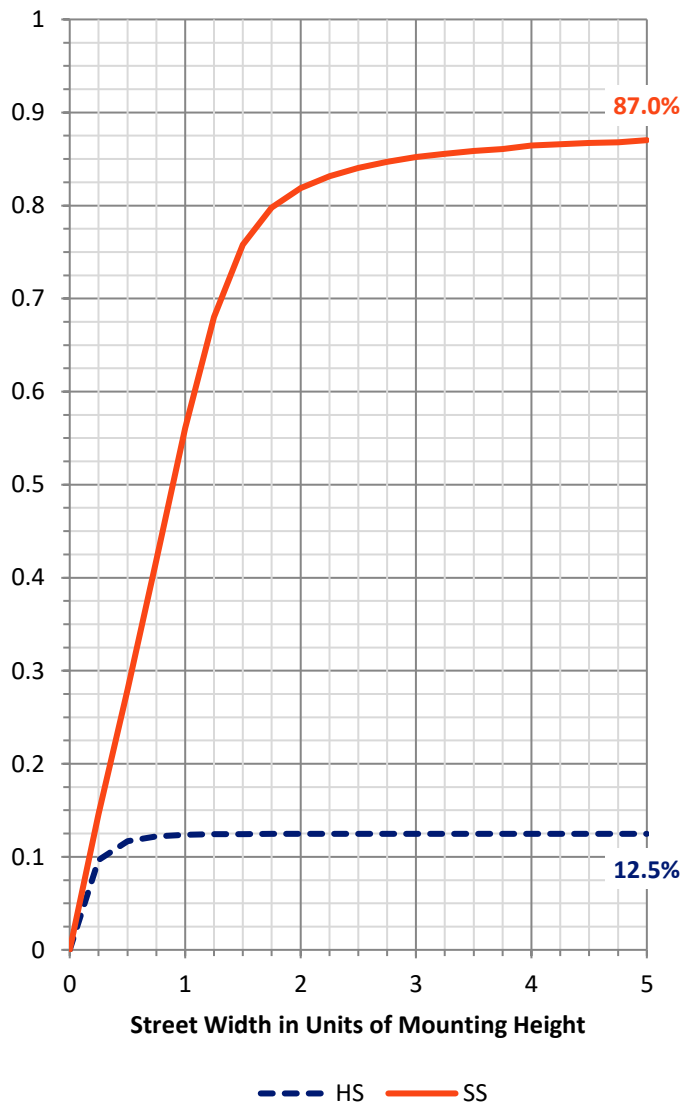
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 691.9 | 0.0 | 691.9 |
| | % Fixture | 12.6 | 0.0 | 12.6 |
| Street Side | Lumens | 4806.1 | 0.0 | 4806.1 |
| | % Fixture | 87.4 | 0.0 | 87.4 |
| Total | Lumens | 5498.0 | 0.0 | 5498.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 113.6 | 2.1 |
| 10°-20° | 252.4 | 4.6 |
| 20°-30° | 358.9 | 6.5 |
| 30°-40° | 522.6 | 9.5 |
| 40°-50° | 808.9 | 14.7 |
| 50°-60° | 1241.4 | 22.6 |
| 60°-70° | 1345.7 | 24.5 |
| 70°-80° | 759.2 | 13.8 |
| 80°-90° | 95.4 | 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° | 5498.0 | 100.0 |
| 0°-180° | 5498.0 | 100.0 |

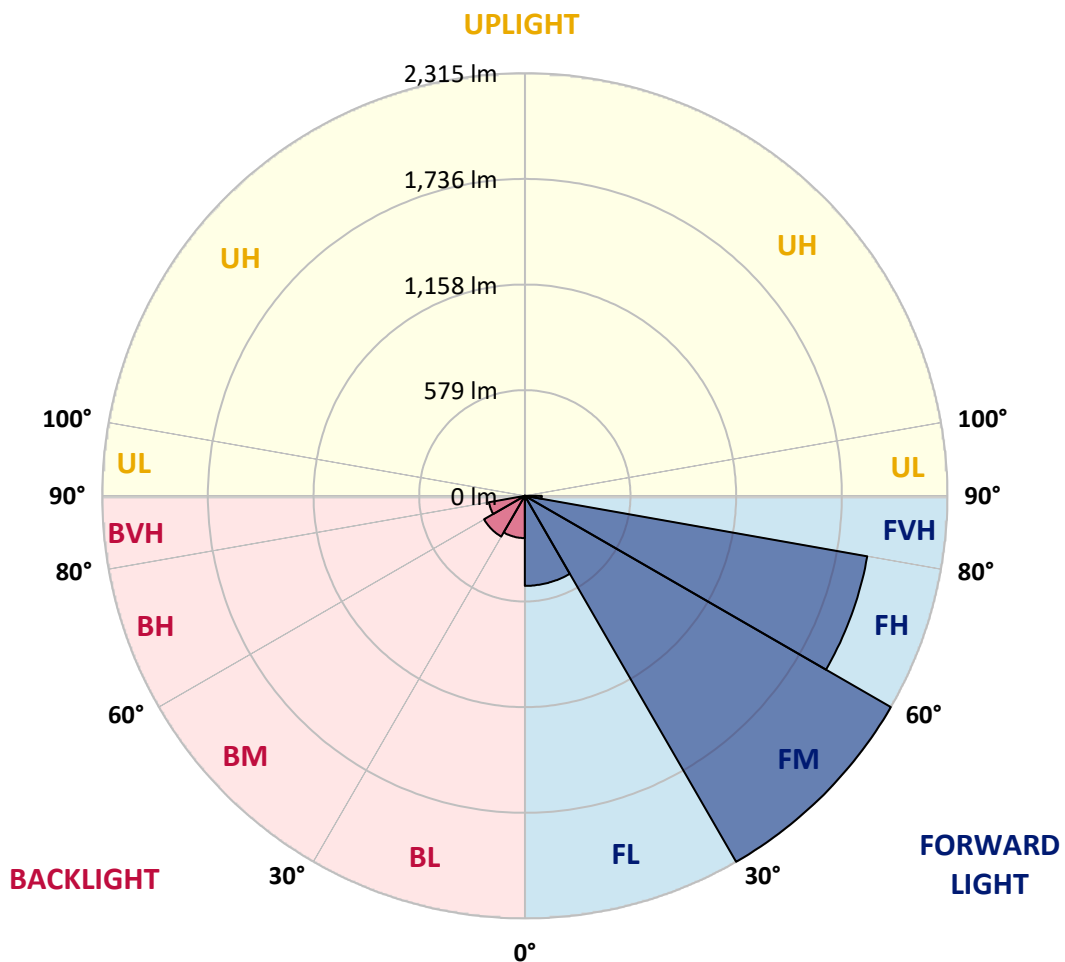


REPORT NUMBER: P676854
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 493.3 | 9.0 | | | |
| FM (30°-60°) | 2315.2 | 42.1 | | | |
| FH (60°-80°) | 1905.0 | 34.6 | | | G2/5000 |
| FVH (80°-90°) | 92.6 | 1.7 | | | G1/100 |
| BL (0°-30°) | 231.6 | 4.2 | B1/500 | | |
| BM (30°-60°) | 257.7 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 199.9 | 3.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 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





REPORT NUMBER: P676854

CATALOG NUMBER: CCW-SA-1E-740-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 |
| 2.5° | 1290.3 | 1296.9 | 1306.2 | 1319.4 | 1328.7 | 1323.4 | 1327.4 | 1349.9 | 1338.0 | 1348.6 | 1343.3 |
| 5° | 1218.7 | 1225.4 | 1238.6 | 1237.3 | 1247.9 | 1267.8 | 1294.3 | 1323.4 | 1310.2 | 1341.9 | 1353.9 |
| 7.5° | 1144.6 | 1141.9 | 1141.9 | 1169.7 | 1192.3 | 1220.1 | 1234.6 | 1282.3 | 1283.7 | 1311.5 | 1340.6 |
| 10° | 1077.0 | 1084.9 | 1098.2 | 1108.8 | 1130.0 | 1169.7 | 1212.1 | 1249.2 | 1263.8 | 1319.4 | 1327.4 |
| 12.5° | 1035.9 | 1039.9 | 1055.8 | 1065.1 | 1092.9 | 1131.3 | 1176.4 | 1224.0 | 1236.0 | 1292.9 | 1331.3 |
| 15° | 1018.7 | 1028.0 | 1033.3 | 1050.5 | 1065.1 | 1100.8 | 1134.0 | 1188.3 | 1222.7 | 1267.8 | 1315.5 |
| 17.5° | 1032.0 | 1028.0 | 1030.6 | 1035.9 | 1053.2 | 1084.9 | 1120.7 | 1175.0 | 1187.0 | 1262.5 | 1334.0 |
| 20° | 1049.2 | 1050.5 | 1042.6 | 1039.9 | 1035.9 | 1066.4 | 1095.5 | 1165.8 | 1179.0 | 1262.5 | 1345.9 |
| 22.5° | 1095.5 | 1081.0 | 1095.5 | 1074.4 | 1053.2 | 1066.4 | 1094.2 | 1167.1 | 1176.4 | 1261.1 | 1357.8 |
| 25° | 1152.5 | 1155.2 | 1159.1 | 1114.1 | 1083.6 | 1074.4 | 1103.5 | 1171.1 | 1179.0 | 1271.7 | 1363.1 |
| 27.5° | 1233.3 | 1245.2 | 1225.4 | 1202.8 | 1141.9 | 1095.5 | 1102.2 | 1168.4 | 1183.0 | 1266.4 | 1376.4 |
| 30° | 1341.9 | 1332.7 | 1335.3 | 1283.7 | 1224.0 | 1151.2 | 1132.6 | 1175.0 | 1185.6 | 1273.1 | 1401.6 |
| 32.5° | 1436.0 | 1425.4 | 1443.9 | 1425.4 | 1331.3 | 1230.7 | 1168.4 | 1188.3 | 1200.2 | 1289.0 | 1422.8 |
| 35° | 1494.3 | 1507.5 | 1536.7 | 1556.5 | 1477.1 | 1334.0 | 1228.0 | 1224.0 | 1229.3 | 1296.9 | 1438.6 |
| 37.5° | 1584.4 | 1608.2 | 1632.1 | 1682.4 | 1613.5 | 1461.2 | 1322.1 | 1270.4 | 1261.1 | 1335.3 | 1446.6 |
| 40° | 1682.4 | 1675.8 | 1746.0 | 1805.6 | 1802.9 | 1640.0 | 1453.2 | 1352.5 | 1339.3 | 1396.3 | 1499.6 |
| 42.5° | 1764.5 | 1757.9 | 1836.1 | 1934.1 | 1944.7 | 1812.2 | 1602.9 | 1469.1 | 1457.2 | 1490.3 | 1564.5 |
| 45° | 1871.8 | 1877.1 | 1969.9 | 2086.4 | 2124.9 | 2040.1 | 1805.6 | 1636.0 | 1629.4 | 1618.8 | 1687.7 |
| 47.5° | 1967.2 | 1996.4 | 2075.8 | 2213.6 | 2352.7 | 2275.9 | 2044.0 | 1879.8 | 1833.4 | 1809.6 | 1878.5 |
| 50° | 2033.5 | 2059.9 | 2156.6 | 2303.7 | 2558.0 | 2607.1 | 2311.6 | 2139.4 | 2140.8 | 2082.5 | 2119.6 |
| 52.5° | 2033.5 | 2032.1 | 2110.3 | 2303.7 | 2701.1 | 2952.8 | 2669.3 | 2466.6 | 2477.2 | 2416.3 | 2418.9 |
| 55° | 1837.4 | 1833.4 | 1928.8 | 2134.1 | 2685.2 | 3285.3 | 3211.1 | 2881.3 | 2854.8 | 2736.9 | 2748.8 |
| 57.5° | 1479.7 | 1489.0 | 1561.8 | 1808.2 | 2478.6 | 3440.3 | 3856.3 | 3347.6 | 3257.5 | 3013.7 | 3013.7 |
| 60° | 1079.6 | 1071.7 | 1126.0 | 1298.2 | 1985.8 | 3382.0 | 4386.2 | 3897.3 | 3755.6 | 3242.9 | 3208.5 |
| 62.5° | 821.3 | 820.0 | 834.6 | 892.9 | 1259.8 | 2948.8 | 4614.0 | 4596.8 | 4366.3 | 3468.1 | 3419.1 |
| 65° | 663.7 | 666.3 | 686.2 | 727.3 | 769.7 | 2010.9 | 4493.5 | 5431.4 | 5220.7 | 3803.3 | 3643.0 |
| 67.5° | 541.8 | 548.4 | 572.3 | 661.0 | 651.8 | 1041.2 | 3827.1 | 5909.6 | 5949.3 | 4314.6 | 3943.7 |
| 70° | 417.3 | 427.9 | 455.7 | 581.6 | 627.9 | 692.8 | 2653.4 | 5671.1 | 5777.1 | 4632.6 | 3762.2 |
| 72.5° | 283.5 | 282.2 | 341.8 | 471.6 | 634.5 | 634.5 | 1477.1 | 4567.6 | 4668.3 | 4270.9 | 3268.1 |
| 75° | 153.7 | 162.9 | 226.5 | 356.4 | 581.6 | 613.3 | 841.2 | 3342.3 | 3484.0 | 3321.1 | 2527.6 |
| 77.5° | 83.5 | 84.8 | 125.8 | 233.2 | 483.5 | 585.5 | 561.7 | 2273.2 | 2328.9 | 2003.0 | 1384.3 |
| 80° | 43.7 | 45.0 | 66.2 | 152.3 | 333.8 | 543.1 | 467.6 | 1355.2 | 1302.2 | 768.3 | 457.0 |
| 82.5° | 19.9 | 21.2 | 33.1 | 95.4 | 213.3 | 427.9 | 404.0 | 654.4 | 604.1 | 214.6 | 139.1 |
| 85° | 7.9 | 7.9 | 14.6 | 57.0 | 124.5 | 210.6 | 345.8 | 328.5 | 274.2 | 64.9 | 68.9 |
| 87.5° | 2.6 | 2.6 | 4.0 | 22.5 | 50.3 | 125.8 | 184.1 | 173.5 | 119.2 | 23.8 | 37.1 |
| 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° | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 | 1348.6 |
| 2.5° | 1338.0 | 1352.5 | 1348.6 | 1345.9 | 1320.7 | 1318.1 | 1315.5 | 1291.6 | 1299.6 | 1279.7 | 1292.9 |
| 5° | 1345.9 | 1353.9 | 1332.7 | 1292.9 | 1257.2 | 1217.4 | 1187.0 | 1165.8 | 1127.3 | 1112.8 | 1110.1 |
| 7.5° | 1338.0 | 1338.0 | 1294.3 | 1230.7 | 1160.5 | 1095.5 | 1013.4 | 955.1 | 911.4 | 878.3 | 890.2 |
| 10° | 1327.4 | 1311.5 | 1266.4 | 1153.8 | 1026.7 | 928.6 | 810.7 | 724.6 | 659.7 | 638.5 | 625.3 |
| 12.5° | 1327.4 | 1299.6 | 1198.9 | 1045.2 | 880.9 | 732.6 | 592.2 | 479.5 | 417.3 | 380.2 | 374.9 |
| 15° | 1315.5 | 1274.4 | 1149.9 | 943.2 | 739.2 | 537.8 | 377.5 | 280.8 | 227.9 | 213.3 | 208.0 |
| 17.5° | 1318.1 | 1269.1 | 1077.0 | 822.7 | 573.6 | 357.7 | 230.5 | 177.5 | 164.3 | 157.6 | 159.0 |
| 20° | 1323.4 | 1269.1 | 1012.1 | 704.8 | 413.3 | 222.6 | 159.0 | 149.7 | 143.1 | 140.4 | 141.7 |
| 22.5° | 1340.6 | 1243.9 | 945.9 | 584.2 | 279.5 | 160.3 | 140.4 | 131.1 | 125.8 | 121.9 | 120.5 |
| 25° | 1343.3 | 1239.9 | 882.3 | 465.0 | 192.1 | 135.1 | 123.2 | 112.6 | 106.0 | 100.7 | 99.4 |
| 27.5° | 1339.3 | 1222.7 | 793.5 | 345.8 | 144.4 | 120.5 | 104.7 | 94.1 | 84.8 | 80.8 | 79.5 |
| 30° | 1353.9 | 1190.9 | 718.0 | 249.0 | 121.9 | 104.7 | 88.8 | 76.8 | 68.9 | 63.6 | 63.6 |
| 32.5° | 1355.2 | 1163.1 | 634.5 | 177.5 | 111.3 | 92.7 | 75.5 | 62.3 | 54.3 | 51.7 | 51.7 |
| 35° | 1356.5 | 1137.9 | 541.8 | 135.1 | 99.4 | 79.5 | 62.3 | 51.7 | 46.4 | 42.4 | 42.4 |
| 37.5° | 1360.5 | 1119.4 | 457.0 | 113.9 | 88.8 | 67.6 | 51.7 | 42.4 | 37.1 | 35.8 | 35.8 |
| 40° | 1368.4 | 1094.2 | 368.3 | 100.7 | 76.8 | 57.0 | 43.7 | 35.8 | 30.5 | 29.1 | 27.8 |
| 42.5° | 1389.6 | 1087.6 | 294.1 | 90.1 | 68.9 | 47.7 | 35.8 | 29.1 | 25.2 | 22.5 | 21.2 |
| 45° | 1477.1 | 1104.8 | 227.9 | 83.5 | 58.3 | 39.7 | 30.5 | 23.8 | 18.5 | 17.2 | 15.9 |
| 47.5° | 1620.1 | 1161.8 | 180.2 | 74.2 | 49.0 | 33.1 | 25.2 | 18.5 | 14.6 | 13.2 | 11.9 |
| 50° | 1837.4 | 1291.6 | 147.0 | 66.2 | 41.1 | 27.8 | 19.9 | 14.6 | 10.6 | 9.3 | 9.3 |
| 52.5° | 2122.2 | 1466.5 | 127.2 | 58.3 | 33.1 | 23.8 | 15.9 | 10.6 | 7.9 | 6.6 | 6.6 |
| 55° | 2413.6 | 1673.1 | 119.2 | 50.3 | 27.8 | 19.9 | 11.9 | 7.9 | 5.3 | 4.0 | 4.0 |
| 57.5° | 2681.2 | 1806.9 | 115.3 | 41.1 | 23.8 | 14.6 | 9.3 | 5.3 | 2.6 | 1.3 | 1.3 |
| 60° | 2848.2 | 1905.0 | 103.3 | 33.1 | 18.5 | 11.9 | 6.6 | 2.6 | 1.3 | 0.0 | 0.0 |
| 62.5° | 3068.1 | 2004.3 | 84.8 | 25.2 | 13.2 | 7.9 | 4.0 | 1.3 | 0.0 | 0.0 | 0.0 |
| 65° | 3358.2 | 2115.6 | 66.2 | 19.9 | 10.6 | 5.3 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3497.3 | 2057.3 | 45.0 | 14.6 | 6.6 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 3219.1 | 1732.7 | 31.8 | 10.6 | 4.0 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2706.4 | 1357.8 | 23.8 | 6.6 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1995.0 | 849.1 | 18.5 | 5.3 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1058.5 | 316.6 | 13.2 | 4.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 312.6 | 92.7 | 9.3 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 103.3 | 27.8 | 5.3 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 53.0 | 10.6 | 2.6 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 30.5 | 4.0 | 2.6 | 2.6 | 1.3 | 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)