

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: P674767

Luminaire Tested: **CCP-SA-2E-835-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674767
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-835-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T3R distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

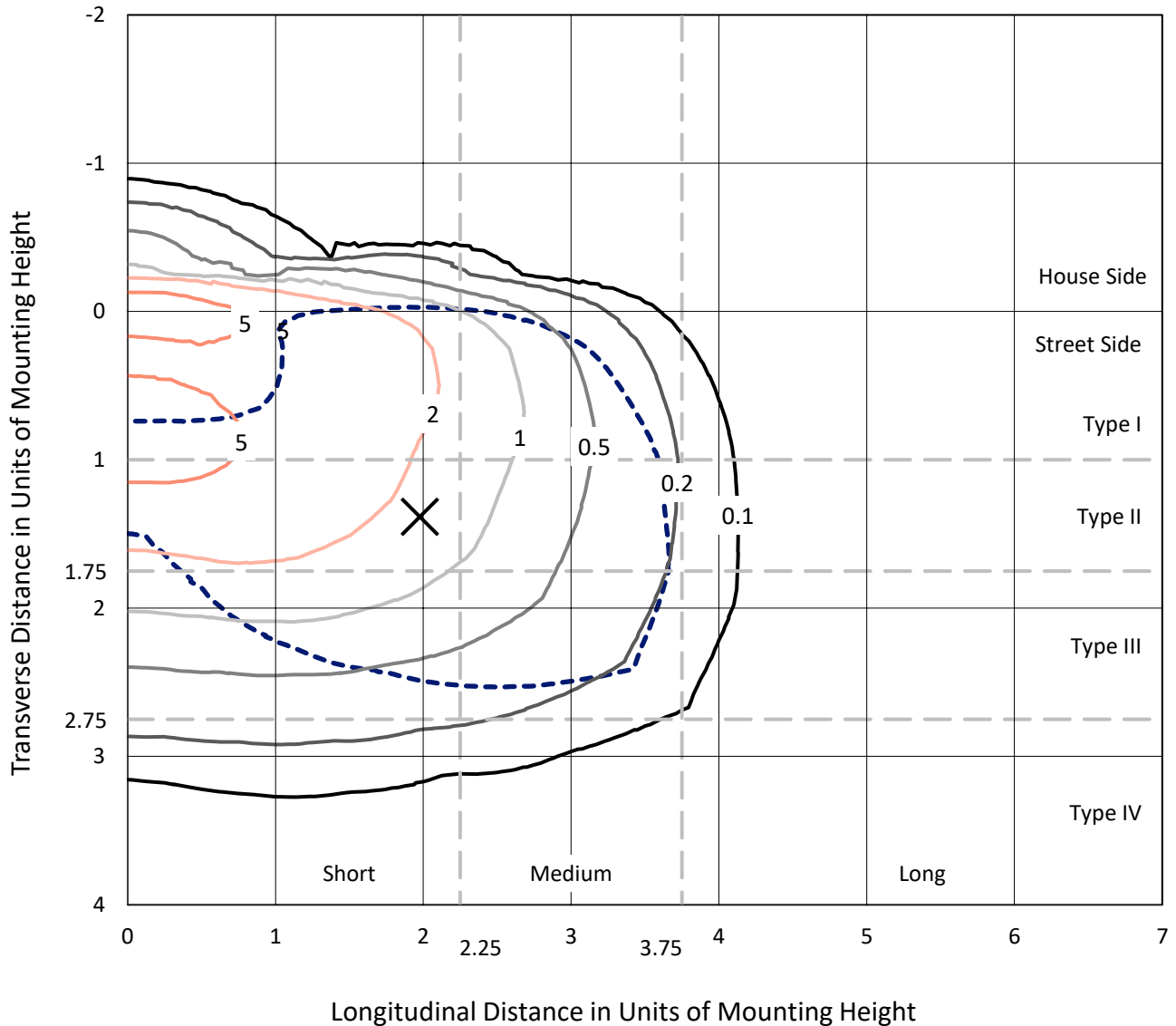
Lumens per Lamp: N/A
Luminaire Lumens: 8935.4 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

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Iso-Footcandle Lines of Horizontal Illumination

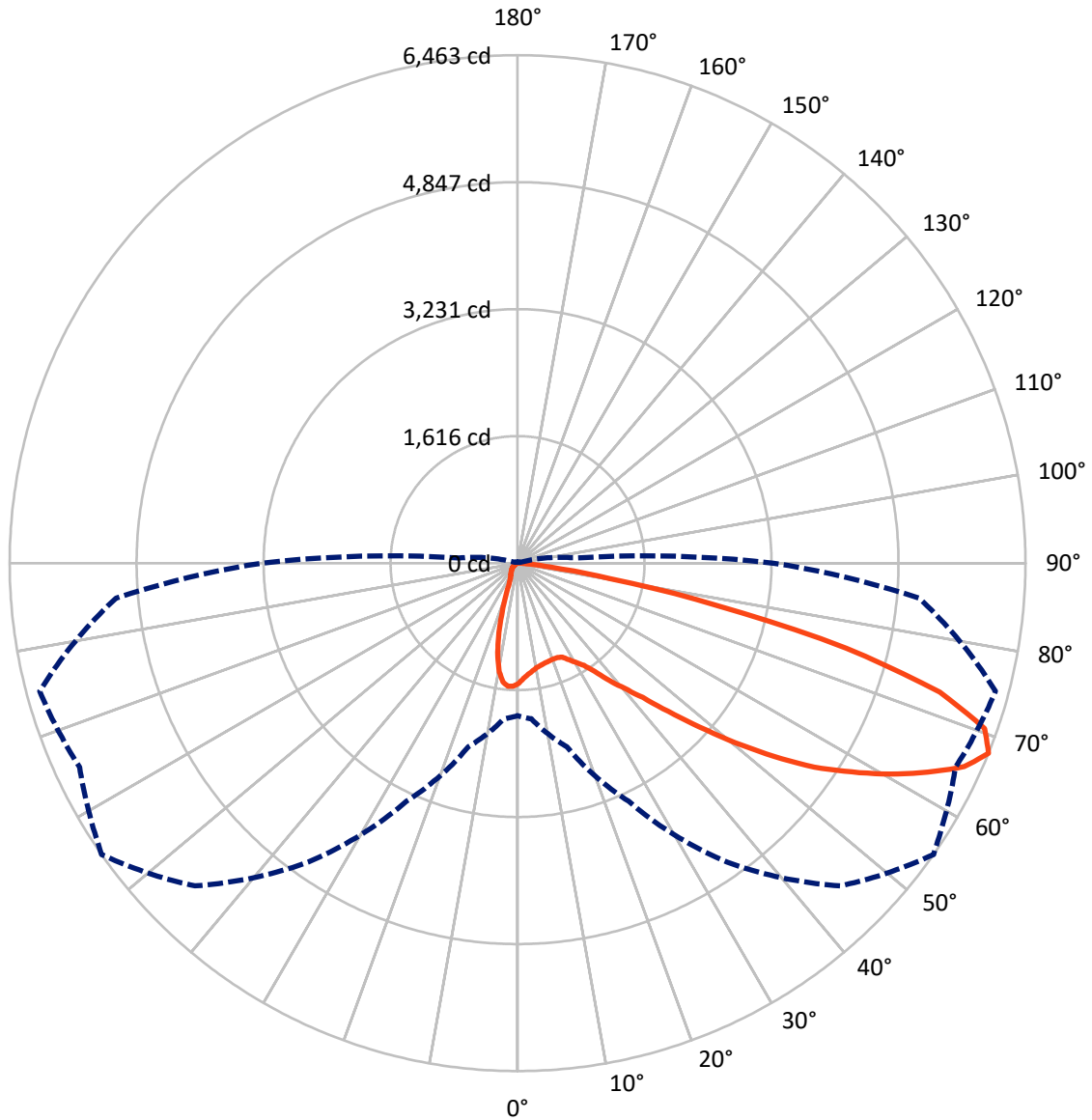
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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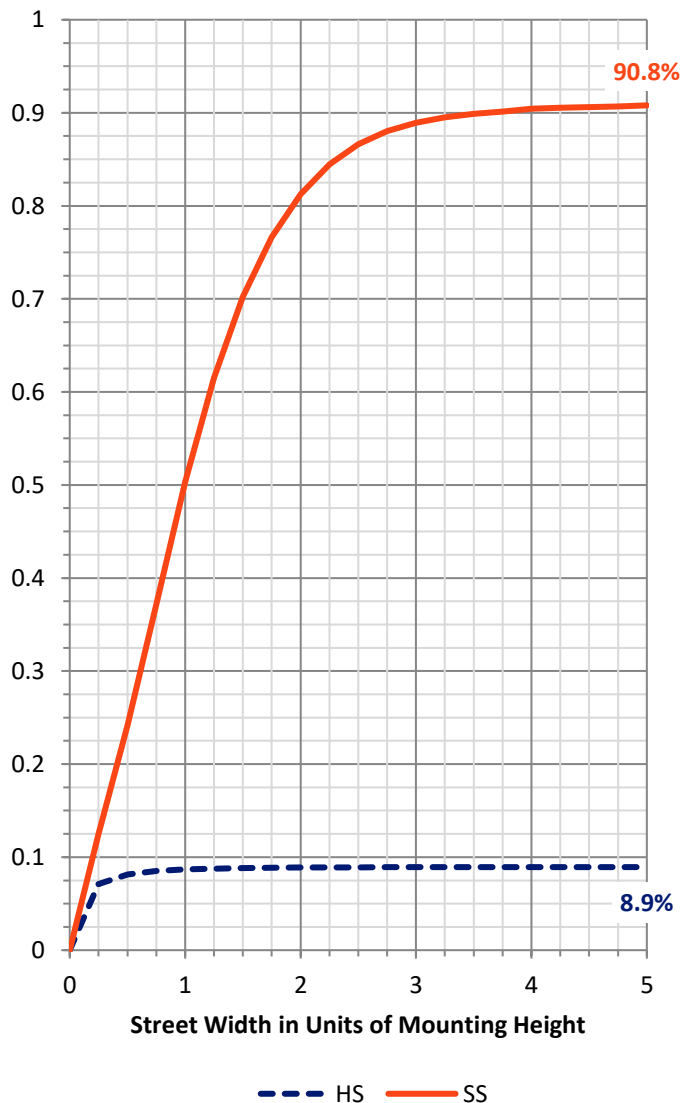
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 802.7 | 0.0 | 802.7 |
| | % Fixture | 9.0 | 0.0 | 9.0 |
| Street Side | Lumens | 8132.7 | 0.0 | 8132.7 |
| | % Fixture | 91.0 | 0.0 | 91.0 |
| Total | Lumens | 8935.4 | 0.0 | 8935.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 134.4 | 1.5 |
| 10°-20° | 306.0 | 3.4 |
| 20°-30° | 490.9 | 5.5 |
| 30°-40° | 851.4 | 9.5 |
| 40°-50° | 1419.7 | 15.9 |
| 50°-60° | 2076.1 | 23.2 |
| 60°-70° | 2420.7 | 27.1 |
| 70°-80° | 1174.8 | 13.1 |
| 80°-90° | 61.4 | 0.7 |
| 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° | 8935.4 | 100.0 |
| 0°-180° | 8935.4 | 100.0 |



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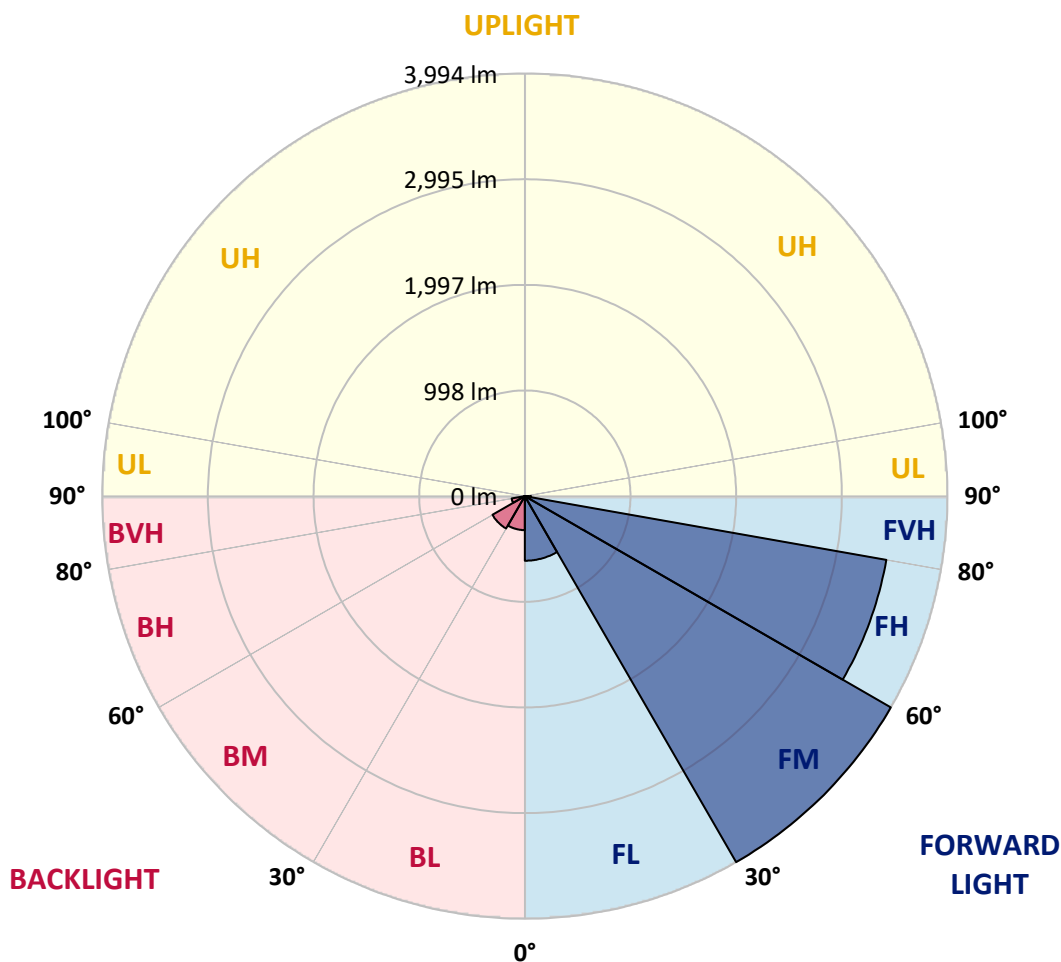
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 610.4 | 6.8 | | | |
| FM (30°-60°) | 3993.8 | 44.7 | | | |
| FH (60°-80°) | 3468.9 | 38.8 | | | G2/5000 |
| FVH (80°-90°) | 59.6 | 0.7 | | | G1/100 |
| BL (0°-30°) | 320.9 | 3.6 | B1/500 | | |
| BM (30°-60°) | 353.4 | 4.0 | B1/1000 | | |
| BH (60°-80°) | 126.6 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 |
| 2.5° | 1413.6 | 1422.6 | 1434.1 | 1438.3 | 1452.2 | 1472.0 | 1466.2 | 1462.1 | 1484.4 | 1514.8 | 1524.7 |
| 5° | 1325.5 | 1326.3 | 1344.4 | 1357.6 | 1381.4 | 1400.4 | 1421.0 | 1419.3 | 1459.7 | 1511.5 | 1544.5 |
| 7.5° | 1239.0 | 1240.7 | 1259.6 | 1280.2 | 1314.8 | 1351.8 | 1383.1 | 1381.4 | 1446.5 | 1515.6 | 1578.2 |
| 10° | 1125.4 | 1133.6 | 1156.7 | 1192.9 | 1247.3 | 1305.7 | 1349.3 | 1353.5 | 1431.7 | 1531.3 | 1624.3 |
| 12.5° | 1034.0 | 1038.1 | 1063.7 | 1110.6 | 1174.8 | 1251.4 | 1332.9 | 1330.4 | 1435.0 | 1560.1 | 1684.4 |
| 15° | 995.3 | 992.9 | 1008.5 | 1043.1 | 1116.4 | 1212.7 | 1316.4 | 1322.2 | 1446.5 | 1593.0 | 1747.0 |
| 17.5° | 1004.4 | 1001.9 | 1010.2 | 1022.5 | 1074.4 | 1180.6 | 1307.4 | 1317.2 | 1464.6 | 1627.6 | 1805.4 |
| 20° | 1104.8 | 1087.5 | 1072.7 | 1059.5 | 1067.0 | 1154.2 | 1301.6 | 1312.3 | 1475.3 | 1653.9 | 1867.2 |
| 22.5° | 1298.3 | 1276.9 | 1237.4 | 1164.1 | 1115.5 | 1155.9 | 1303.2 | 1317.2 | 1499.2 | 1696.8 | 1942.1 |
| 25° | 1613.6 | 1593.0 | 1508.2 | 1358.4 | 1230.0 | 1215.1 | 1325.5 | 1340.3 | 1554.3 | 1761.8 | 2021.9 |
| 27.5° | 2031.0 | 1984.9 | 1882.0 | 1667.1 | 1419.3 | 1309.8 | 1392.1 | 1408.6 | 1632.5 | 1812.0 | 2076.3 |
| 30° | 2377.6 | 2366.9 | 2268.1 | 2004.7 | 1680.3 | 1449.0 | 1467.1 | 1476.1 | 1667.9 | 1842.5 | 2130.6 |
| 32.5° | 2737.4 | 2715.1 | 2624.6 | 2368.5 | 1983.3 | 1647.4 | 1551.0 | 1555.2 | 1714.0 | 1887.8 | 2209.7 |
| 35° | 3050.2 | 3029.6 | 2953.9 | 2705.3 | 2337.3 | 1914.1 | 1690.2 | 1681.1 | 1809.5 | 1987.4 | 2316.7 |
| 37.5° | 3340.0 | 3337.5 | 3270.8 | 3017.3 | 2655.0 | 2190.7 | 1895.2 | 1887.8 | 1958.6 | 2096.9 | 2461.6 |
| 40° | 3623.2 | 3616.6 | 3559.8 | 3328.5 | 2967.9 | 2466.5 | 2090.3 | 2071.3 | 2085.3 | 2250.0 | 2652.6 |
| 42.5° | 3796.9 | 3810.9 | 3830.7 | 3684.1 | 3339.2 | 2790.1 | 2337.3 | 2325.7 | 2323.3 | 2489.6 | 2903.7 |
| 45° | 3890.8 | 3915.5 | 4031.5 | 4018.4 | 3732.7 | 3192.6 | 2688.8 | 2659.2 | 2649.3 | 2818.9 | 3191.0 |
| 47.5° | 3982.2 | 3992.9 | 4183.0 | 4262.9 | 4109.8 | 3612.5 | 3113.6 | 3072.4 | 3032.1 | 3220.6 | 3534.3 |
| 50° | 3987.9 | 4005.2 | 4240.7 | 4434.9 | 4425.9 | 4025.8 | 3590.3 | 3554.1 | 3507.9 | 3709.6 | 3869.4 |
| 52.5° | 3907.2 | 3941.8 | 4233.2 | 4543.6 | 4621.8 | 4390.5 | 4085.1 | 4055.4 | 4017.6 | 4168.2 | 4151.7 |
| 55° | 3349.9 | 3408.3 | 4088.4 | 4553.5 | 4759.3 | 4703.3 | 4582.3 | 4541.2 | 4504.1 | 4611.1 | 4428.4 |
| 57.5° | 3084.8 | 3117.7 | 3648.7 | 4546.1 | 4934.7 | 4993.1 | 5013.7 | 4994.8 | 4942.9 | 5076.3 | 4717.3 |
| 60° | 2925.9 | 2973.6 | 3438.8 | 4463.8 | 5124.0 | 5320.8 | 5450.0 | 5412.2 | 5348.8 | 5532.4 | 5026.9 |
| 62.5° | 2735.7 | 2770.3 | 3229.7 | 4226.7 | 5236.8 | 5654.2 | 5859.2 | 5824.6 | 5693.7 | 5953.1 | 5277.2 |
| 65° | 2385.0 | 2436.9 | 2897.1 | 3853.7 | 5085.3 | 5898.7 | 6244.5 | 6233.0 | 6005.7 | 6270.8 | 5345.5 |
| 67.5° | 1941.3 | 1988.2 | 2417.1 | 3342.5 | 4642.4 | 5807.3 | 6462.7 | 6426.4 | 6147.3 | 6294.7 | 5129.0 |
| 70° | 1457.2 | 1482.7 | 1806.3 | 2553.8 | 3803.5 | 5319.1 | 6304.6 | 6297.2 | 5932.5 | 5940.7 | 4464.6 |
| 72.5° | 782.1 | 852.9 | 1201.1 | 1709.1 | 2674.8 | 4308.2 | 5618.8 | 5589.2 | 5292.8 | 4865.5 | 3210.7 |
| 75° | 273.3 | 293.9 | 639.7 | 959.9 | 1453.1 | 2869.9 | 4320.5 | 4251.4 | 3958.3 | 3164.6 | 1749.4 |
| 77.5° | 167.9 | 184.4 | 284.0 | 490.7 | 565.6 | 1245.6 | 2595.8 | 2506.0 | 2316.7 | 1368.3 | 597.7 |
| 80° | 116.1 | 130.9 | 190.2 | 256.9 | 192.6 | 403.4 | 1194.6 | 1160.8 | 893.2 | 326.0 | 137.5 |
| 82.5° | 65.0 | 78.2 | 144.1 | 126.0 | 77.4 | 104.6 | 414.1 | 383.6 | 237.9 | 88.1 | 46.1 |
| 85° | 37.9 | 45.3 | 101.3 | 88.9 | 39.5 | 37.0 | 107.8 | 96.3 | 61.7 | 32.9 | 22.2 |
| 87.5° | 19.8 | 25.5 | 74.1 | 59.3 | 23.9 | 13.2 | 24.7 | 23.9 | 15.6 | 11.5 | 14.8 |
| 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° | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 | 1531.3 |
| 2.5° | 1542.8 | 1538.7 | 1560.1 | 1567.5 | 1565.9 | 1562.6 | 1570.8 | 1560.1 | 1559.3 | 1556.8 | 1554.3 |
| 5° | 1570.8 | 1577.4 | 1594.7 | 1594.7 | 1571.6 | 1533.7 | 1510.7 | 1479.4 | 1453.1 | 1437.4 | 1435.0 |
| 7.5° | 1612.8 | 1626.0 | 1637.5 | 1602.1 | 1523.0 | 1429.2 | 1329.6 | 1251.4 | 1183.0 | 1147.6 | 1144.3 |
| 10° | 1672.1 | 1684.4 | 1675.4 | 1574.1 | 1404.5 | 1210.2 | 1048.0 | 885.0 | 803.5 | 759.1 | 759.1 |
| 12.5° | 1742.9 | 1752.7 | 1697.6 | 1504.1 | 1209.4 | 927.8 | 711.3 | 540.1 | 458.6 | 405.9 | 402.6 |
| 15° | 1819.4 | 1821.9 | 1694.3 | 1382.3 | 968.2 | 623.2 | 408.3 | 299.7 | 265.1 | 257.7 | 256.0 |
| 17.5° | 1886.1 | 1876.2 | 1659.7 | 1202.0 | 697.3 | 371.3 | 259.3 | 234.6 | 228.0 | 228.0 | 228.0 |
| 20° | 1948.7 | 1915.7 | 1590.6 | 992.0 | 447.0 | 252.7 | 223.1 | 216.5 | 216.5 | 217.3 | 217.3 |
| 22.5° | 2017.8 | 1952.8 | 1491.8 | 759.1 | 287.3 | 216.5 | 209.1 | 205.8 | 205.0 | 207.5 | 206.6 |
| 25° | 2099.3 | 1989.0 | 1350.2 | 524.4 | 222.3 | 201.7 | 198.4 | 195.1 | 195.1 | 195.1 | 195.1 |
| 27.5° | 2144.6 | 1984.1 | 1188.8 | 331.0 | 194.3 | 186.9 | 183.6 | 180.3 | 177.8 | 177.0 | 177.8 |
| 30° | 2184.1 | 1955.3 | 978.0 | 231.3 | 175.4 | 167.1 | 164.7 | 160.5 | 155.6 | 154.0 | 154.0 |
| 32.5° | 2236.0 | 1931.4 | 757.4 | 186.1 | 158.9 | 149.8 | 142.4 | 135.8 | 127.6 | 124.3 | 123.5 |
| 35° | 2293.6 | 1887.8 | 554.9 | 163.8 | 144.1 | 132.5 | 121.0 | 110.3 | 99.6 | 96.3 | 95.5 |
| 37.5° | 2365.3 | 1848.2 | 376.2 | 151.5 | 131.7 | 117.7 | 102.1 | 87.3 | 77.4 | 75.7 | 75.7 |
| 40° | 2462.4 | 1815.3 | 260.2 | 140.8 | 120.2 | 103.7 | 84.8 | 69.2 | 62.6 | 60.9 | 60.9 |
| 42.5° | 2594.9 | 1788.1 | 196.8 | 131.7 | 110.3 | 89.7 | 68.3 | 56.8 | 51.9 | 50.2 | 50.2 |
| 45° | 2751.4 | 1746.2 | 166.3 | 123.5 | 100.4 | 75.7 | 56.8 | 47.7 | 45.3 | 45.3 | 45.3 |
| 47.5° | 2930.8 | 1693.5 | 151.5 | 115.3 | 89.7 | 61.7 | 47.7 | 43.6 | 42.8 | 42.8 | 43.6 |
| 50° | 3112.0 | 1630.9 | 140.8 | 105.4 | 77.4 | 52.7 | 43.6 | 41.2 | 41.2 | 42.0 | 42.0 |
| 52.5° | 3234.6 | 1532.9 | 130.1 | 94.7 | 65.0 | 46.1 | 41.2 | 40.3 | 39.5 | 39.5 | 39.5 |
| 55° | 3354.0 | 1447.3 | 115.3 | 83.2 | 54.3 | 42.8 | 39.5 | 38.7 | 38.7 | 37.9 | 37.9 |
| 57.5° | 3478.3 | 1379.8 | 96.3 | 69.2 | 46.1 | 40.3 | 37.9 | 37.9 | 36.2 | 35.4 | 35.4 |
| 60° | 3622.4 | 1320.5 | 74.1 | 54.3 | 40.3 | 37.9 | 35.4 | 34.6 | 32.9 | 31.3 | 31.3 |
| 62.5° | 3664.4 | 1195.4 | 56.0 | 43.6 | 34.6 | 32.9 | 32.1 | 30.5 | 26.3 | 23.1 | 23.9 |
| 65° | 3554.9 | 998.6 | 44.5 | 34.6 | 28.0 | 28.0 | 25.5 | 21.4 | 17.3 | 14.8 | 14.8 |
| 67.5° | 3252.7 | 745.9 | 36.2 | 27.2 | 22.2 | 21.4 | 18.1 | 15.6 | 10.7 | 9.1 | 9.1 |
| 70° | 2680.6 | 493.1 | 29.6 | 21.4 | 18.1 | 14.8 | 12.3 | 11.5 | 8.2 | 6.6 | 6.6 |
| 72.5° | 1878.7 | 267.6 | 24.7 | 17.3 | 13.2 | 9.9 | 8.2 | 7.4 | 5.8 | 4.9 | 4.1 |
| 75° | 992.0 | 102.9 | 19.8 | 13.2 | 8.2 | 6.6 | 4.9 | 4.9 | 4.1 | 3.3 | 3.3 |
| 77.5° | 340.0 | 43.6 | 14.0 | 7.4 | 5.8 | 4.1 | 3.3 | 2.5 | 3.3 | 2.5 | 2.5 |
| 80° | 80.7 | 25.5 | 9.1 | 4.9 | 3.3 | 2.5 | 2.5 | 1.6 | 1.6 | 1.6 | 1.6 |
| 82.5° | 35.4 | 14.8 | 5.8 | 3.3 | 3.3 | 2.5 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 85° | 23.9 | 9.1 | 4.1 | 3.3 | 2.5 | 1.6 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 18.9 | 5.8 | 3.3 | 3.3 | 2.5 | 1.6 | 0.8 | 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)