

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: P676683

Luminaire Tested: **CCW-SA-2E-727-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676683
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-727-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

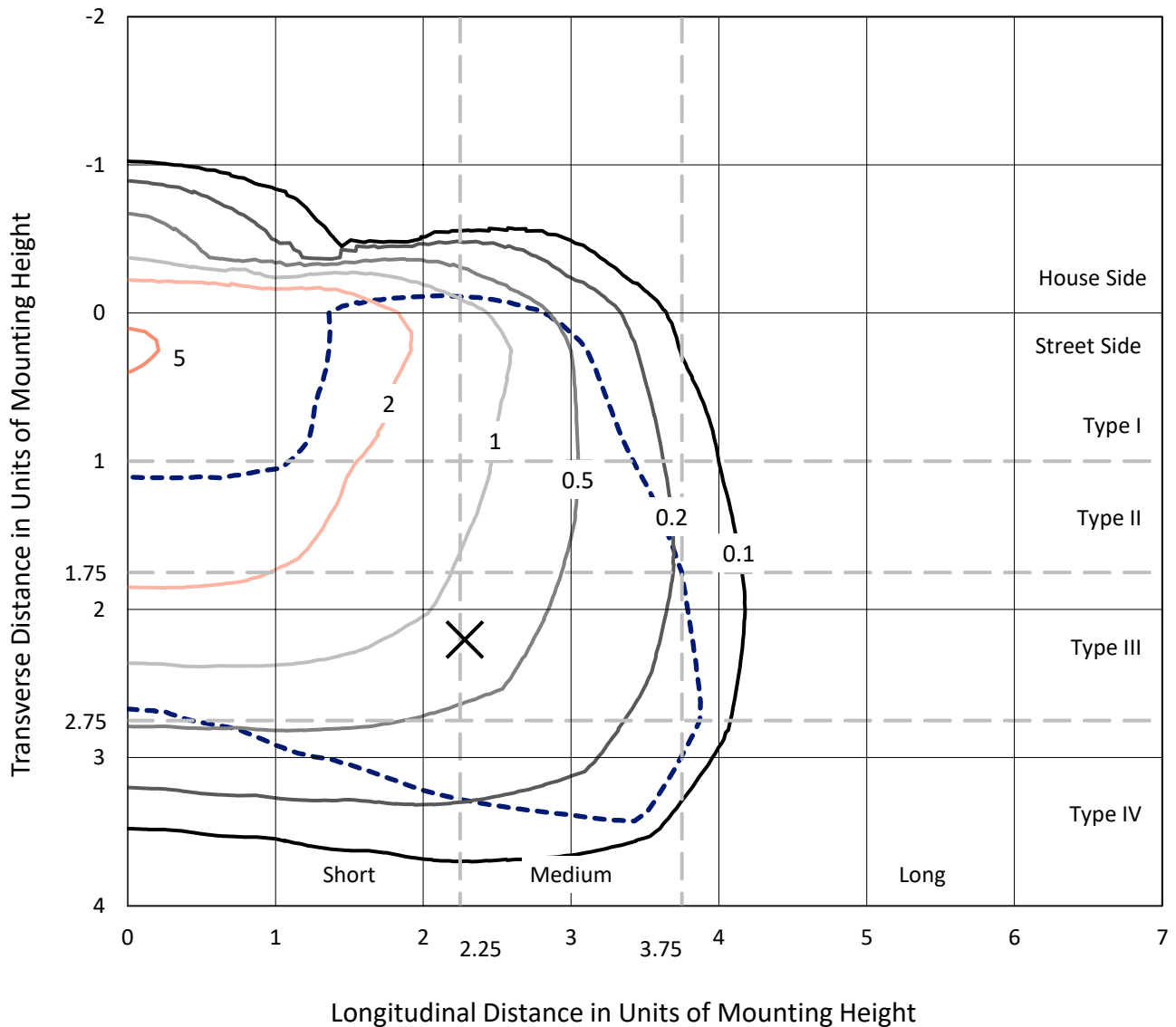
Lumens per Lamp: N/A
Luminaire Lumens: 8250 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

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Iso-Footcandle Lines of Horizontal Illumination

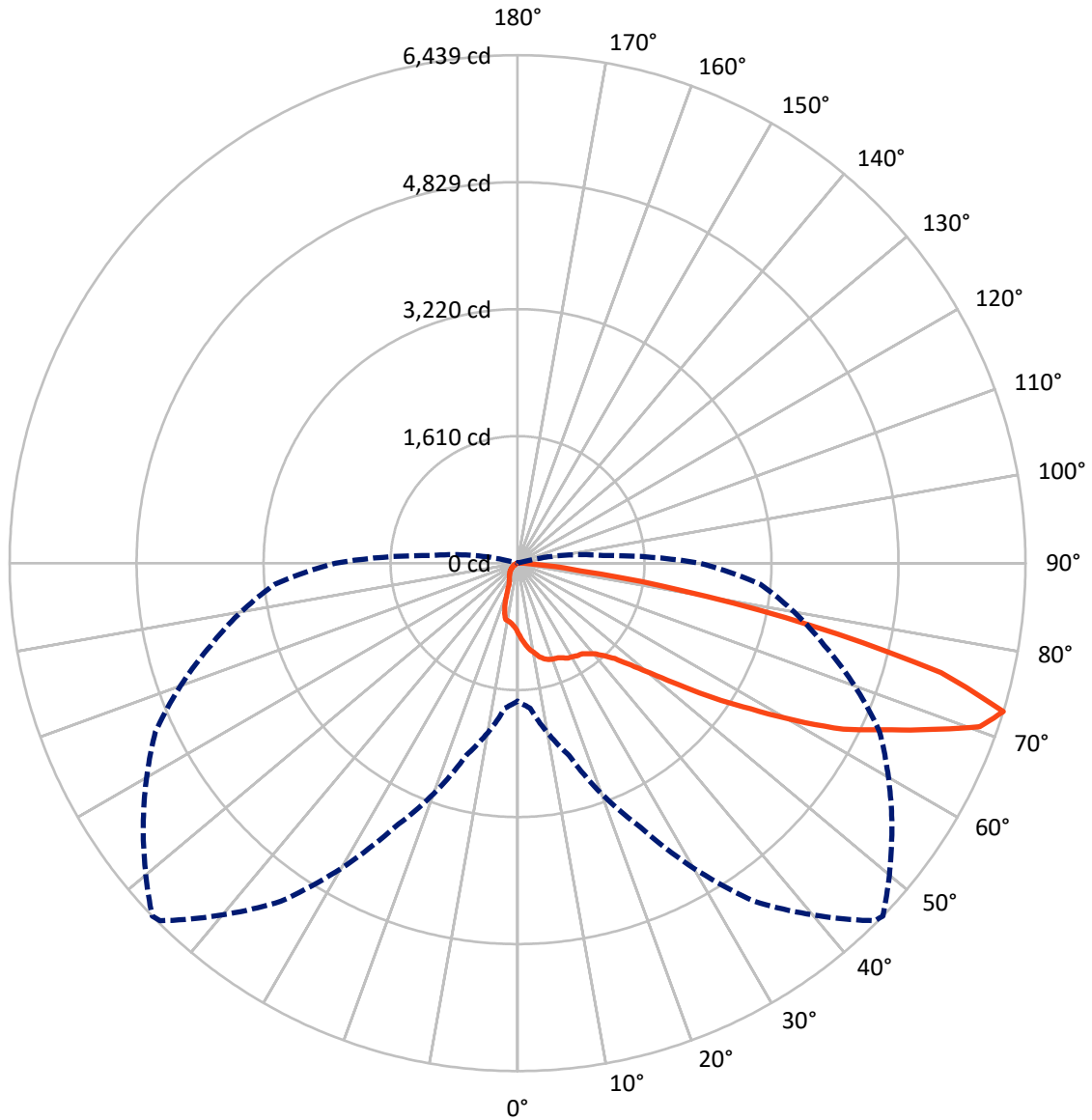
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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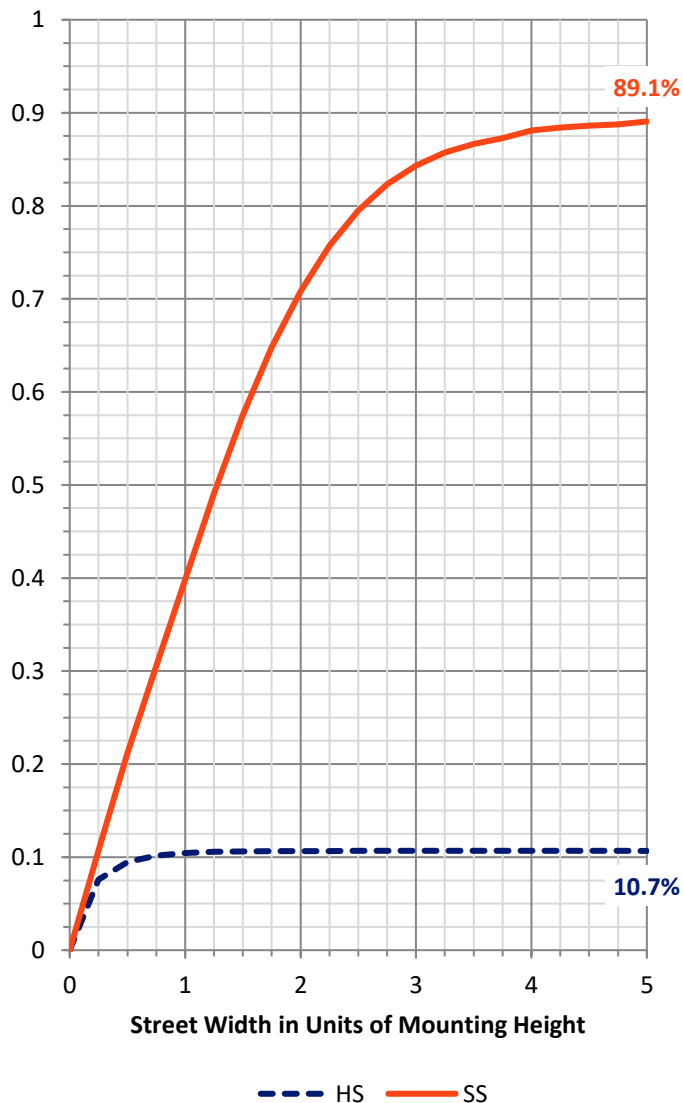
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 888.2 | 0.0 | 888.2 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 7361.8 | 0.0 | 7361.8 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 8250.0 | 0.0 | 8250.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.3 | 1.1 |
| 10°-20° | 266.4 | 3.2 |
| 20°-30° | 417.1 | 5.1 |
| 30°-40° | 584.1 | 7.1 |
| 40°-50° | 963.2 | 11.7 |
| 50°-60° | 1731.3 | 21.0 |
| 60°-70° | 2509.3 | 30.4 |
| 70°-80° | 1566.1 | 19.0 |
| 80°-90° | 124.1 | 1.5 |
| 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° | 8250.0 | 100.0 |
| 0°-180° | 8250.0 | 100.0 |



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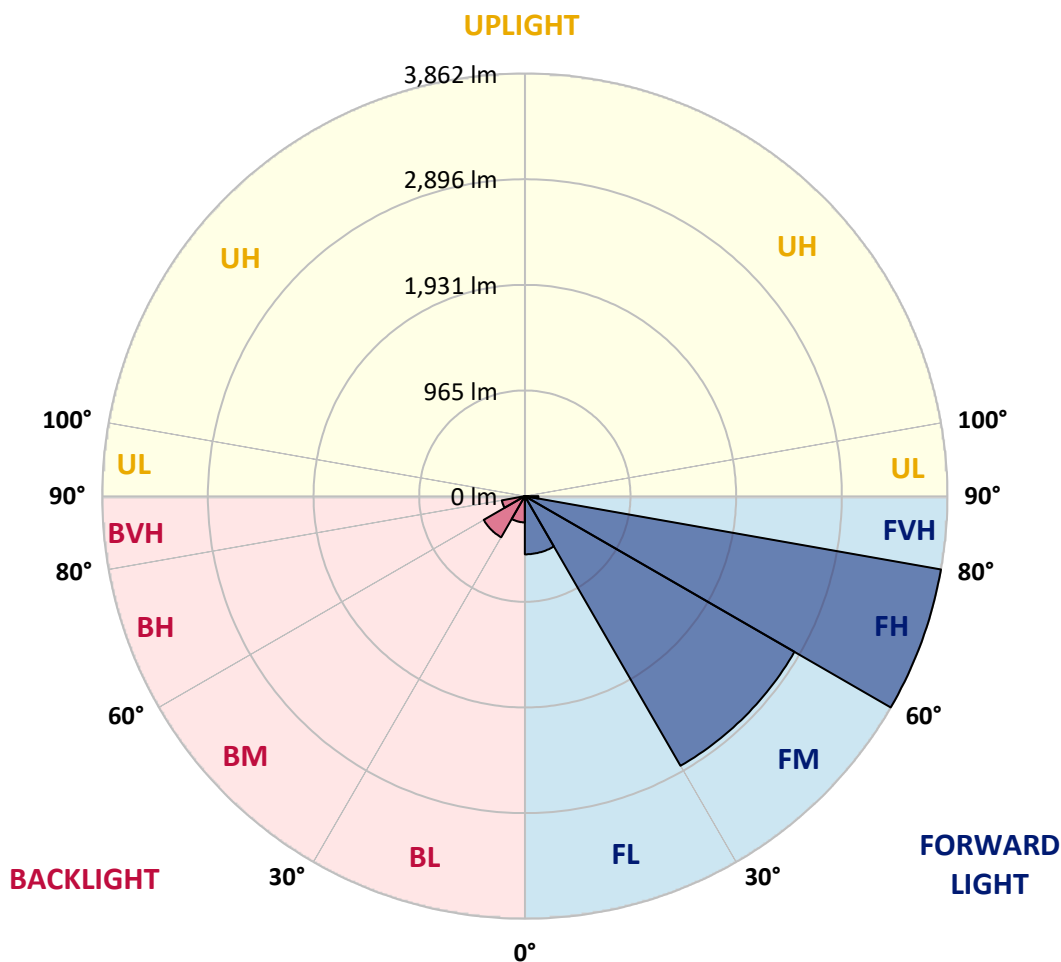
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 531.8 | 6.4 | | | |
| FM (30°-60°) | 2844.8 | 34.5 | | | |
| FH (60°-80°) | 3861.8 | 46.8 | | | G2/5000 |
| FVH (80°-90°) | 123.5 | 1.5 | | | G2/225 |
| BL (0°-30°) | 240.0 | 2.9 | B1/500 | | |
| BM (30°-60°) | 433.9 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 213.6 | 2.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.7 | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 |
| 2.5° | 986.9 | 982.7 | 989.0 | 986.9 | 961.7 | 965.9 | 963.8 | 947.0 | 917.5 | 900.7 | 890.1 |
| 5° | 1100.6 | 1111.1 | 1102.7 | 1083.7 | 1069.0 | 1039.5 | 1035.3 | 1008.0 | 961.7 | 932.2 | 900.7 |
| 7.5° | 1218.4 | 1218.4 | 1201.6 | 1172.1 | 1140.6 | 1109.0 | 1104.8 | 1058.5 | 1018.5 | 968.0 | 923.8 |
| 10° | 1306.8 | 1296.3 | 1283.7 | 1252.1 | 1216.3 | 1174.2 | 1153.2 | 1119.5 | 1075.3 | 1014.3 | 957.5 |
| 12.5° | 1384.7 | 1367.8 | 1346.8 | 1300.5 | 1258.4 | 1212.1 | 1216.3 | 1161.6 | 1132.1 | 1077.4 | 993.3 |
| 15° | 1428.9 | 1414.1 | 1395.2 | 1353.1 | 1287.9 | 1266.8 | 1258.4 | 1224.7 | 1172.1 | 1117.4 | 1037.4 |
| 17.5° | 1439.4 | 1428.9 | 1403.6 | 1348.9 | 1313.1 | 1287.9 | 1285.8 | 1245.8 | 1222.6 | 1176.3 | 1087.9 |
| 20° | 1418.3 | 1399.4 | 1380.5 | 1344.7 | 1311.0 | 1302.6 | 1296.3 | 1296.3 | 1266.8 | 1205.8 | 1119.5 |
| 22.5° | 1382.6 | 1361.5 | 1351.0 | 1329.9 | 1302.6 | 1300.5 | 1304.7 | 1300.5 | 1277.3 | 1237.4 | 1153.2 |
| 25° | 1355.2 | 1344.7 | 1327.8 | 1321.5 | 1304.7 | 1336.3 | 1329.9 | 1323.6 | 1317.3 | 1271.0 | 1205.8 |
| 27.5° | 1363.6 | 1361.5 | 1348.9 | 1323.6 | 1311.0 | 1344.7 | 1363.6 | 1365.7 | 1363.6 | 1317.3 | 1254.2 |
| 30° | 1367.8 | 1357.3 | 1344.7 | 1338.4 | 1342.6 | 1376.2 | 1376.2 | 1422.5 | 1403.6 | 1357.3 | 1302.6 |
| 32.5° | 1416.2 | 1409.9 | 1367.8 | 1353.1 | 1355.2 | 1395.2 | 1397.3 | 1443.6 | 1437.3 | 1405.7 | 1344.7 |
| 35° | 1519.3 | 1477.3 | 1416.2 | 1374.1 | 1374.1 | 1426.7 | 1409.9 | 1477.3 | 1494.1 | 1443.6 | 1374.1 |
| 37.5° | 1673.0 | 1641.4 | 1532.0 | 1437.3 | 1401.5 | 1439.4 | 1456.2 | 1494.1 | 1544.6 | 1500.4 | 1433.1 |
| 40° | 1978.1 | 1971.8 | 1816.0 | 1611.9 | 1470.9 | 1504.6 | 1510.9 | 1569.8 | 1603.5 | 1542.5 | 1523.5 |
| 42.5° | 2424.2 | 2392.6 | 2247.4 | 1925.5 | 1597.2 | 1582.5 | 1605.6 | 1643.5 | 1723.5 | 1673.0 | 1626.7 |
| 45° | 2859.8 | 2845.1 | 2699.9 | 2340.0 | 1826.6 | 1738.2 | 1725.6 | 1792.9 | 1910.7 | 1856.0 | 1820.3 |
| 47.5° | 3175.5 | 3146.0 | 3063.9 | 2760.9 | 2163.3 | 1921.3 | 1929.7 | 1997.0 | 2146.4 | 2104.3 | 2114.9 |
| 50° | 3417.5 | 3402.7 | 3316.4 | 3150.2 | 2588.3 | 2209.6 | 2192.7 | 2260.1 | 2462.1 | 2489.4 | 2518.9 |
| 52.5° | 3682.6 | 3710.0 | 3594.2 | 3453.2 | 3091.3 | 2596.8 | 2558.9 | 2582.0 | 2843.0 | 2906.1 | 2988.2 |
| 55° | 3937.2 | 3981.4 | 3865.7 | 3846.7 | 3617.4 | 3026.0 | 3019.7 | 2965.0 | 3301.7 | 3310.1 | 3354.3 |
| 57.5° | 4103.5 | 4088.7 | 4080.3 | 4183.4 | 4143.5 | 3518.5 | 3486.9 | 3432.2 | 3737.3 | 3682.6 | 3815.2 |
| 60° | 4116.1 | 4158.2 | 4299.2 | 4553.8 | 4625.4 | 4097.2 | 4050.9 | 3901.5 | 4114.0 | 3983.5 | 4236.0 |
| 62.5° | 4210.8 | 4244.5 | 4505.4 | 4856.8 | 4949.4 | 4606.4 | 4638.0 | 4259.2 | 4436.0 | 4332.8 | 4703.2 |
| 65° | 3970.9 | 4076.1 | 4600.1 | 5092.5 | 5374.5 | 5122.0 | 5090.4 | 4720.0 | 4766.3 | 4669.5 | 5164.1 |
| 67.5° | 3754.2 | 3794.1 | 4341.3 | 5164.1 | 5711.2 | 5639.6 | 5627.0 | 5128.3 | 5107.2 | 4928.4 | 5294.5 |
| 70° | 3051.3 | 3099.7 | 3640.5 | 4797.9 | 5824.8 | 6243.6 | 6214.1 | 5700.7 | 5338.7 | 4787.4 | 4625.4 |
| 72.5° | 1748.7 | 1845.5 | 2523.1 | 3695.2 | 5233.5 | 6411.9 | 6439.3 | 5793.3 | 5065.2 | 4025.6 | 3089.2 |
| 75° | 572.4 | 599.7 | 1048.0 | 2093.8 | 3914.1 | 5593.3 | 5544.9 | 4978.9 | 4086.6 | 2657.8 | 1395.2 |
| 77.5° | 193.6 | 197.8 | 309.3 | 757.6 | 2169.6 | 3779.4 | 3806.8 | 3558.4 | 2510.5 | 1104.8 | 385.1 |
| 80° | 98.9 | 105.2 | 151.5 | 284.1 | 892.2 | 2058.0 | 2102.2 | 2028.6 | 1052.2 | 326.2 | 92.6 |
| 82.5° | 46.3 | 48.4 | 88.4 | 157.8 | 408.2 | 808.1 | 808.1 | 888.0 | 372.5 | 183.1 | 37.9 |
| 85° | 16.8 | 16.8 | 46.3 | 90.5 | 172.6 | 269.4 | 271.5 | 273.6 | 195.7 | 136.8 | 16.8 |
| 87.5° | 6.3 | 6.3 | 23.1 | 37.9 | 63.1 | 82.1 | 82.1 | 65.2 | 98.9 | 90.5 | 6.3 |
| 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° | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 | 881.7 |
| 2.5° | 885.9 | 873.3 | 862.8 | 848.1 | 829.1 | 818.6 | 820.7 | 808.1 | 808.1 | 801.8 | 799.7 |
| 5° | 885.9 | 873.3 | 845.9 | 820.7 | 803.9 | 782.8 | 772.3 | 763.9 | 763.9 | 759.7 | 761.8 |
| 7.5° | 892.2 | 873.3 | 835.4 | 801.8 | 774.4 | 753.4 | 736.5 | 734.4 | 730.2 | 719.7 | 728.1 |
| 10° | 930.1 | 902.8 | 839.6 | 793.3 | 761.8 | 738.6 | 709.2 | 700.7 | 688.1 | 669.2 | 671.3 |
| 12.5° | 961.7 | 925.9 | 869.1 | 806.0 | 766.0 | 728.1 | 660.8 | 587.1 | 555.5 | 521.9 | 524.0 |
| 15° | 1008.0 | 957.5 | 879.6 | 822.8 | 766.0 | 643.9 | 521.9 | 427.2 | 376.7 | 351.4 | 351.4 |
| 17.5° | 1033.2 | 991.1 | 909.1 | 833.3 | 705.0 | 524.0 | 370.4 | 288.3 | 279.9 | 284.1 | 284.1 |
| 20° | 1085.8 | 1029.0 | 942.7 | 841.7 | 603.9 | 372.5 | 271.5 | 263.0 | 267.3 | 275.7 | 273.6 |
| 22.5° | 1119.5 | 1062.7 | 968.0 | 803.9 | 467.2 | 267.3 | 254.6 | 250.4 | 254.6 | 265.1 | 265.1 |
| 25° | 1146.9 | 1111.1 | 1008.0 | 711.3 | 330.4 | 242.0 | 237.8 | 242.0 | 246.2 | 250.4 | 256.7 |
| 27.5° | 1214.2 | 1153.2 | 1035.3 | 591.3 | 237.8 | 225.2 | 229.4 | 231.5 | 231.5 | 237.8 | 239.9 |
| 30° | 1258.4 | 1210.0 | 1056.4 | 456.6 | 210.4 | 208.3 | 212.5 | 214.6 | 216.7 | 223.1 | 225.2 |
| 32.5° | 1300.5 | 1283.7 | 1029.0 | 309.3 | 197.8 | 193.6 | 191.5 | 193.6 | 202.0 | 208.3 | 206.2 |
| 35° | 1361.5 | 1351.0 | 989.0 | 214.6 | 185.2 | 176.8 | 172.6 | 174.7 | 181.0 | 187.3 | 185.2 |
| 37.5° | 1435.2 | 1445.7 | 892.2 | 187.3 | 172.6 | 162.0 | 153.6 | 153.6 | 155.7 | 162.0 | 164.1 |
| 40° | 1521.4 | 1548.8 | 778.6 | 174.7 | 164.1 | 151.5 | 143.1 | 132.6 | 130.5 | 128.4 | 130.5 |
| 42.5° | 1679.3 | 1710.8 | 650.2 | 166.2 | 151.5 | 136.8 | 124.2 | 111.5 | 101.0 | 94.7 | 94.7 |
| 45° | 1900.2 | 1875.0 | 481.9 | 157.8 | 145.2 | 124.2 | 105.2 | 90.5 | 75.8 | 69.4 | 69.4 |
| 47.5° | 2205.4 | 2119.1 | 330.4 | 149.4 | 134.7 | 109.4 | 88.4 | 69.4 | 56.8 | 50.5 | 50.5 |
| 50° | 2628.3 | 2344.2 | 214.6 | 141.0 | 128.4 | 94.7 | 71.5 | 50.5 | 42.1 | 40.0 | 42.1 |
| 52.5° | 3028.2 | 2573.6 | 170.5 | 130.5 | 115.7 | 82.1 | 54.7 | 42.1 | 37.9 | 35.8 | 35.8 |
| 55° | 3396.4 | 2689.4 | 151.5 | 119.9 | 105.2 | 67.3 | 46.3 | 35.8 | 33.7 | 31.6 | 31.6 |
| 57.5° | 3707.9 | 2729.3 | 130.5 | 105.2 | 84.2 | 52.6 | 37.9 | 31.6 | 27.4 | 25.3 | 25.3 |
| 60° | 3977.2 | 2739.9 | 101.0 | 84.2 | 61.0 | 40.0 | 31.6 | 27.4 | 23.1 | 18.9 | 18.9 |
| 62.5° | 4191.9 | 2666.2 | 71.5 | 58.9 | 42.1 | 31.6 | 27.4 | 18.9 | 12.6 | 8.4 | 6.3 |
| 65° | 4362.3 | 2518.9 | 48.4 | 40.0 | 27.4 | 23.1 | 16.8 | 8.4 | 2.1 | 0.0 | 0.0 |
| 67.5° | 4162.4 | 2184.3 | 37.9 | 29.5 | 18.9 | 14.7 | 8.4 | 2.1 | 0.0 | 0.0 | 0.0 |
| 70° | 3394.3 | 1694.0 | 27.4 | 18.9 | 12.6 | 4.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2310.6 | 1092.2 | 21.0 | 12.6 | 6.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1037.4 | 391.4 | 14.7 | 8.4 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 252.5 | 92.6 | 10.5 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 67.3 | 23.1 | 6.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 25.3 | 8.4 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 10.5 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.2 | 2.1 | 0.0 | 0.0 | 0.0 | 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)