

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: P673537

Luminaire Tested: **CCP-SA-2D-730-U-T4W-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673537
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-730-U-T4W-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T4W distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

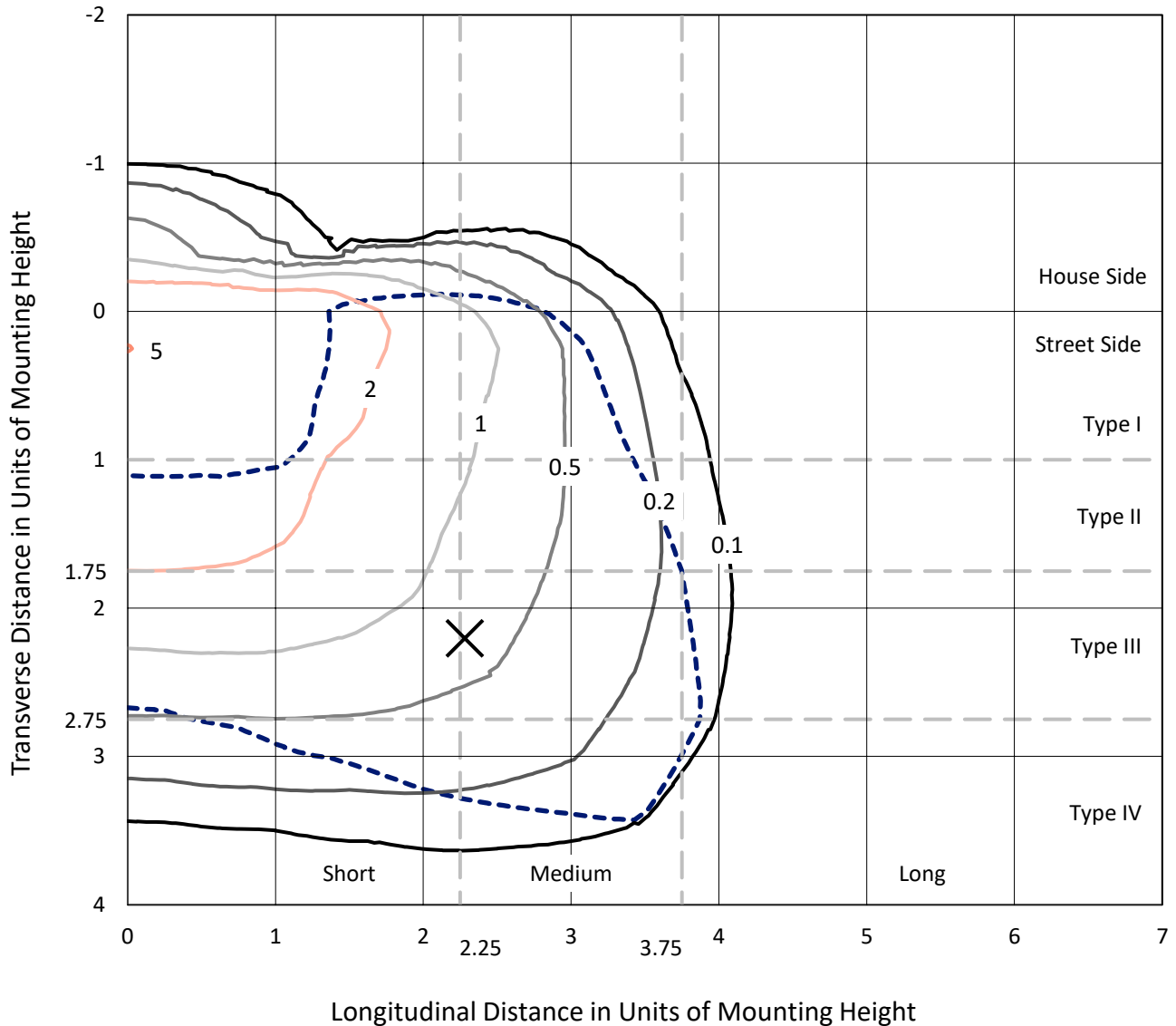
Lumens per Lamp: N/A
Luminaire Lumens: 7327.2 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

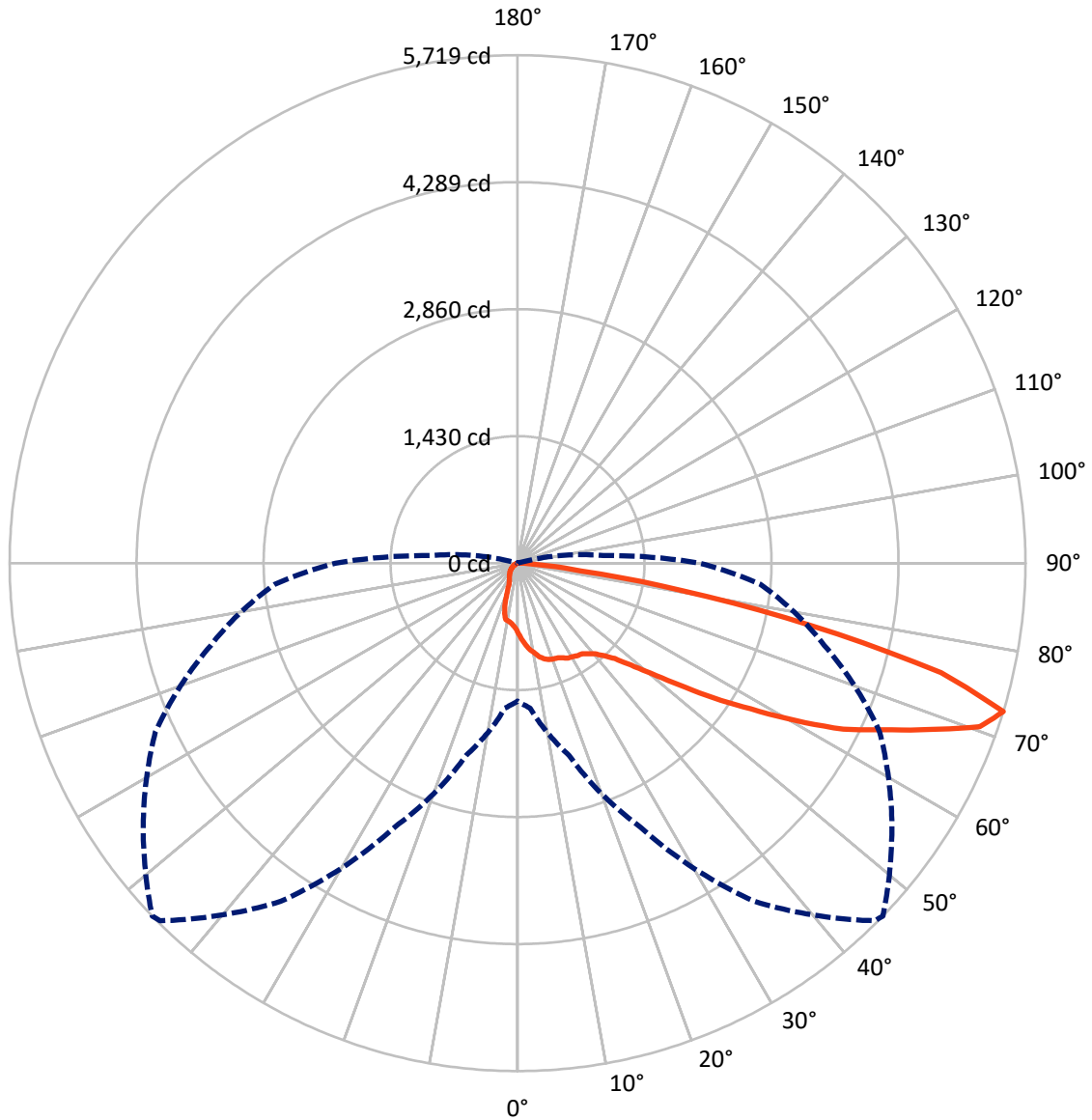
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 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 | 788.8 | 0.0 | 788.8 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 6538.3 | 0.0 | 6538.3 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 7327.2 | 0.0 | 7327.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.4 | 1.1 |
| 10°-20° | 236.6 | 3.2 |
| 20°-30° | 370.5 | 5.1 |
| 30°-40° | 518.8 | 7.1 |
| 40°-50° | 855.5 | 11.7 |
| 50°-60° | 1537.6 | 21.0 |
| 60°-70° | 2228.6 | 30.4 |
| 70°-80° | 1390.9 | 19.0 |
| 80°-90° | 110.3 | 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° | 7327.2 | 100.0 |
| 0°-180° | 7327.2 | 100.0 |

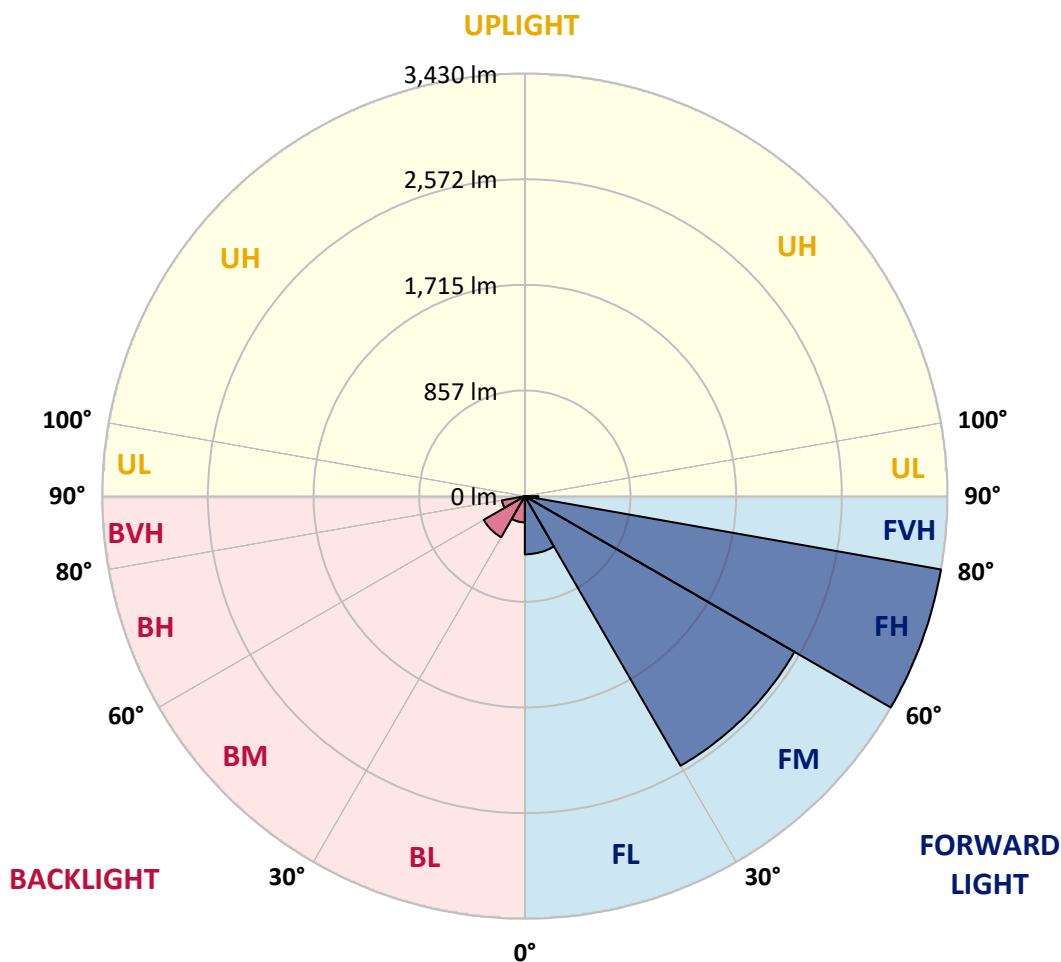


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 472.3 | 6.4 | | | |
| FM (30°-60°) | 2526.6 | 34.5 | | | |
| FH (60°-80°) | 3429.8 | 46.8 | | | G2/5000 |
| FVH (80°-90°) | 109.7 | 1.5 | | | G2/225 |
| BL (0°-30°) | 213.2 | 2.9 | B1/500 | | |
| BM (30°-60°) | 385.4 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 189.7 | 2.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.6 | 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° | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 |
| 2.5° | 876.5 | 872.8 | 878.4 | 876.5 | 854.1 | 857.9 | 856.0 | 841.0 | 814.9 | 799.9 | 790.6 |
| 5° | 977.5 | 986.8 | 979.3 | 962.5 | 949.4 | 923.3 | 919.5 | 895.2 | 854.1 | 827.9 | 799.9 |
| 7.5° | 1082.1 | 1082.1 | 1067.2 | 1041.0 | 1013.0 | 984.9 | 981.2 | 940.1 | 904.6 | 859.7 | 820.5 |
| 10° | 1160.6 | 1151.3 | 1140.1 | 1112.0 | 1080.3 | 1042.9 | 1024.2 | 994.3 | 955.0 | 900.8 | 850.4 |
| 12.5° | 1229.8 | 1214.8 | 1196.1 | 1155.0 | 1117.6 | 1076.5 | 1080.3 | 1031.7 | 1005.5 | 956.9 | 882.1 |
| 15° | 1269.0 | 1255.9 | 1239.1 | 1201.7 | 1143.8 | 1125.1 | 1117.6 | 1087.7 | 1041.0 | 992.4 | 921.4 |
| 17.5° | 1278.4 | 1269.0 | 1246.6 | 1198.0 | 1166.2 | 1143.8 | 1141.9 | 1106.4 | 1085.9 | 1044.7 | 966.3 |
| 20° | 1259.7 | 1242.9 | 1226.0 | 1194.3 | 1164.4 | 1156.9 | 1151.3 | 1151.3 | 1125.1 | 1070.9 | 994.3 |
| 22.5° | 1227.9 | 1209.2 | 1199.9 | 1181.2 | 1156.9 | 1155.0 | 1158.8 | 1155.0 | 1134.5 | 1098.9 | 1024.2 |
| 25° | 1203.6 | 1194.3 | 1179.3 | 1173.7 | 1158.8 | 1186.8 | 1181.2 | 1175.6 | 1170.0 | 1128.9 | 1070.9 |
| 27.5° | 1211.1 | 1209.2 | 1198.0 | 1175.6 | 1164.4 | 1194.3 | 1211.1 | 1213.0 | 1211.1 | 1170.0 | 1113.9 |
| 30° | 1214.8 | 1205.5 | 1194.3 | 1188.7 | 1192.4 | 1222.3 | 1222.3 | 1263.4 | 1246.6 | 1205.5 | 1156.9 |
| 32.5° | 1257.8 | 1252.2 | 1214.8 | 1201.7 | 1203.6 | 1239.1 | 1241.0 | 1282.1 | 1276.5 | 1248.5 | 1194.3 |
| 35° | 1349.4 | 1312.0 | 1257.8 | 1220.4 | 1220.4 | 1267.2 | 1252.2 | 1312.0 | 1327.0 | 1282.1 | 1220.4 |
| 37.5° | 1485.8 | 1457.8 | 1360.6 | 1276.5 | 1244.7 | 1278.4 | 1293.3 | 1327.0 | 1371.8 | 1332.6 | 1272.8 |
| 40° | 1756.8 | 1751.2 | 1612.9 | 1431.6 | 1306.4 | 1336.3 | 1341.9 | 1394.2 | 1424.1 | 1369.9 | 1353.1 |
| 42.5° | 2153.0 | 2125.0 | 1996.0 | 1710.1 | 1418.5 | 1405.5 | 1426.0 | 1459.7 | 1530.7 | 1485.8 | 1444.7 |
| 45° | 2539.9 | 2526.8 | 2397.9 | 2078.3 | 1622.3 | 1543.8 | 1532.5 | 1592.4 | 1697.0 | 1648.4 | 1616.7 |
| 47.5° | 2820.3 | 2794.1 | 2721.2 | 2452.1 | 1921.3 | 1706.4 | 1713.8 | 1773.6 | 1906.3 | 1869.0 | 1878.3 |
| 50° | 3035.2 | 3022.1 | 2945.5 | 2797.8 | 2298.8 | 1962.4 | 1947.5 | 2007.3 | 2186.7 | 2211.0 | 2237.1 |
| 52.5° | 3270.7 | 3295.0 | 3192.2 | 3067.0 | 2745.5 | 2306.3 | 2272.7 | 2293.2 | 2525.0 | 2581.0 | 2653.9 |
| 55° | 3496.8 | 3536.1 | 3433.3 | 3416.5 | 3212.7 | 2687.6 | 2682.0 | 2633.4 | 2932.4 | 2939.9 | 2979.1 |
| 57.5° | 3644.5 | 3631.4 | 3623.9 | 3715.5 | 3680.0 | 3124.9 | 3096.9 | 3048.3 | 3319.3 | 3270.7 | 3388.4 |
| 60° | 3655.7 | 3693.1 | 3818.3 | 4044.4 | 4108.0 | 3638.9 | 3597.7 | 3465.1 | 3653.8 | 3537.9 | 3762.2 |
| 62.5° | 3739.8 | 3769.7 | 4001.4 | 4313.6 | 4395.8 | 4091.2 | 4119.2 | 3782.8 | 3939.8 | 3848.2 | 4177.1 |
| 65° | 3526.7 | 3620.2 | 4085.5 | 4522.9 | 4773.3 | 4549.0 | 4521.0 | 4192.1 | 4233.2 | 4147.2 | 4586.4 |
| 67.5° | 3334.2 | 3369.7 | 3855.7 | 4586.4 | 5072.4 | 5008.8 | 4997.6 | 4554.7 | 4536.0 | 4377.1 | 4702.3 |
| 70° | 2710.0 | 2753.0 | 3233.3 | 4261.2 | 5173.3 | 5545.2 | 5519.0 | 5063.0 | 4741.6 | 4251.9 | 4108.0 |
| 72.5° | 1553.1 | 1639.1 | 2240.9 | 3281.9 | 4648.1 | 5694.7 | 5719.0 | 5145.2 | 4498.6 | 3575.3 | 2743.6 |
| 75° | 508.4 | 532.7 | 930.7 | 1859.6 | 3476.3 | 4967.7 | 4924.7 | 4422.0 | 3629.5 | 2360.5 | 1239.1 |
| 77.5° | 171.9 | 175.7 | 274.7 | 672.8 | 1926.9 | 3356.7 | 3380.9 | 3160.4 | 2229.7 | 981.2 | 342.0 |
| 80° | 87.8 | 93.4 | 134.6 | 252.3 | 792.4 | 1827.8 | 1867.1 | 1801.7 | 934.5 | 289.7 | 82.2 |
| 82.5° | 41.1 | 43.0 | 78.5 | 140.2 | 362.6 | 717.7 | 717.7 | 788.7 | 330.8 | 162.6 | 33.6 |
| 85° | 15.0 | 15.0 | 41.1 | 80.4 | 153.3 | 239.2 | 241.1 | 243.0 | 173.8 | 121.5 | 15.0 |
| 87.5° | 5.6 | 5.6 | 20.6 | 33.6 | 56.1 | 72.9 | 72.9 | 57.9 | 87.8 | 80.4 | 5.6 |
| 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° | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 | 783.1 |
| 2.5° | 786.8 | 775.6 | 766.3 | 753.2 | 736.4 | 727.0 | 728.9 | 717.7 | 717.7 | 712.1 | 710.2 |
| 5° | 786.8 | 775.6 | 751.3 | 728.9 | 713.9 | 695.3 | 685.9 | 678.4 | 678.4 | 674.7 | 676.6 |
| 7.5° | 792.4 | 775.6 | 742.0 | 712.1 | 687.8 | 669.1 | 654.1 | 652.3 | 648.5 | 639.2 | 646.7 |
| 10° | 826.1 | 801.8 | 745.7 | 704.6 | 676.6 | 656.0 | 629.8 | 622.4 | 611.1 | 594.3 | 596.2 |
| 12.5° | 854.1 | 822.3 | 771.9 | 715.8 | 680.3 | 646.7 | 586.9 | 521.4 | 493.4 | 463.5 | 465.4 |
| 15° | 895.2 | 850.4 | 781.2 | 730.8 | 680.3 | 571.9 | 463.5 | 379.4 | 334.5 | 312.1 | 312.1 |
| 17.5° | 917.7 | 880.3 | 807.4 | 740.1 | 626.1 | 465.4 | 328.9 | 256.0 | 248.6 | 252.3 | 252.3 |
| 20° | 964.4 | 913.9 | 837.3 | 747.6 | 536.4 | 330.8 | 241.1 | 233.6 | 237.4 | 244.8 | 243.0 |
| 22.5° | 994.3 | 943.8 | 859.7 | 713.9 | 414.9 | 237.4 | 226.1 | 222.4 | 226.1 | 235.5 | 235.5 |
| 25° | 1018.6 | 986.8 | 895.2 | 631.7 | 293.4 | 214.9 | 211.2 | 214.9 | 218.7 | 222.4 | 228.0 |
| 27.5° | 1078.4 | 1024.2 | 919.5 | 525.2 | 211.2 | 200.0 | 203.7 | 205.6 | 205.6 | 211.2 | 213.1 |
| 30° | 1117.6 | 1074.7 | 938.2 | 405.6 | 186.9 | 185.0 | 188.8 | 190.6 | 192.5 | 198.1 | 200.0 |
| 32.5° | 1155.0 | 1140.1 | 913.9 | 274.7 | 175.7 | 171.9 | 170.1 | 171.9 | 179.4 | 185.0 | 183.2 |
| 35° | 1209.2 | 1199.9 | 878.4 | 190.6 | 164.5 | 157.0 | 153.3 | 155.1 | 160.7 | 166.3 | 164.5 |
| 37.5° | 1274.6 | 1284.0 | 792.4 | 166.3 | 153.3 | 143.9 | 136.4 | 136.4 | 138.3 | 143.9 | 145.8 |
| 40° | 1351.3 | 1375.6 | 691.5 | 155.1 | 145.8 | 134.6 | 127.1 | 117.7 | 115.9 | 114.0 | 115.9 |
| 42.5° | 1491.4 | 1519.5 | 577.5 | 147.6 | 134.6 | 121.5 | 110.3 | 99.1 | 89.7 | 84.1 | 84.1 |
| 45° | 1687.7 | 1665.2 | 428.0 | 140.2 | 129.0 | 110.3 | 93.4 | 80.4 | 67.3 | 61.7 | 61.7 |
| 47.5° | 1958.7 | 1882.0 | 293.4 | 132.7 | 119.6 | 97.2 | 78.5 | 61.7 | 50.5 | 44.9 | 44.9 |
| 50° | 2334.3 | 2082.0 | 190.6 | 125.2 | 114.0 | 84.1 | 63.5 | 44.9 | 37.4 | 35.5 | 37.4 |
| 52.5° | 2689.4 | 2285.7 | 151.4 | 115.9 | 102.8 | 72.9 | 48.6 | 37.4 | 33.6 | 31.8 | 31.8 |
| 55° | 3016.5 | 2388.5 | 134.6 | 106.5 | 93.4 | 59.8 | 41.1 | 31.8 | 29.9 | 28.0 | 28.0 |
| 57.5° | 3293.1 | 2424.0 | 115.9 | 93.4 | 74.8 | 46.7 | 33.6 | 28.0 | 24.3 | 22.4 | 22.4 |
| 60° | 3532.3 | 2433.4 | 89.7 | 74.8 | 54.2 | 35.5 | 28.0 | 24.3 | 20.6 | 16.8 | 16.8 |
| 62.5° | 3723.0 | 2368.0 | 63.5 | 52.3 | 37.4 | 28.0 | 24.3 | 16.8 | 11.2 | 7.5 | 5.6 |
| 65° | 3874.4 | 2237.1 | 43.0 | 35.5 | 24.3 | 20.6 | 15.0 | 7.5 | 1.9 | 0.0 | 0.0 |
| 67.5° | 3696.8 | 1940.0 | 33.6 | 26.2 | 16.8 | 13.1 | 7.5 | 1.9 | 0.0 | 0.0 | 0.0 |
| 70° | 3014.6 | 1504.5 | 24.3 | 16.8 | 11.2 | 3.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2052.1 | 970.0 | 18.7 | 11.2 | 5.6 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 921.4 | 347.6 | 13.1 | 7.5 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 224.3 | 82.2 | 9.3 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 59.8 | 20.6 | 5.6 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 22.4 | 7.5 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 9.3 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.7 | 1.9 | 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)