

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: P673282

Luminaire Tested: **CCP-SA-2D-750-U-T3-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673282  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-750-U-T3-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T3 distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

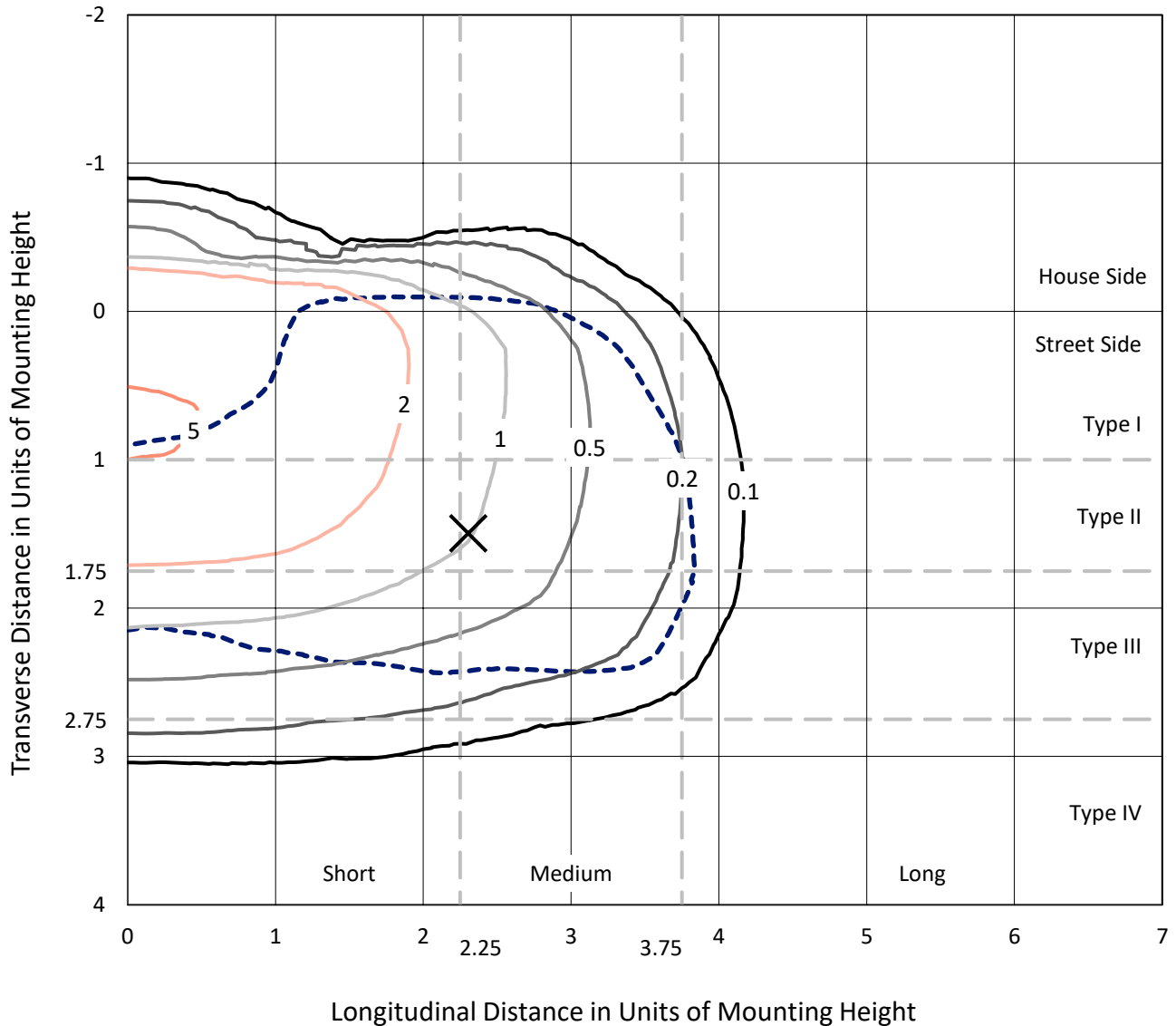
Lumens per Lamp: N/A  
Luminaire Lumens: 8218.6 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P673282  
 CATALOG NUMBER: CCP-SA-2D-750-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

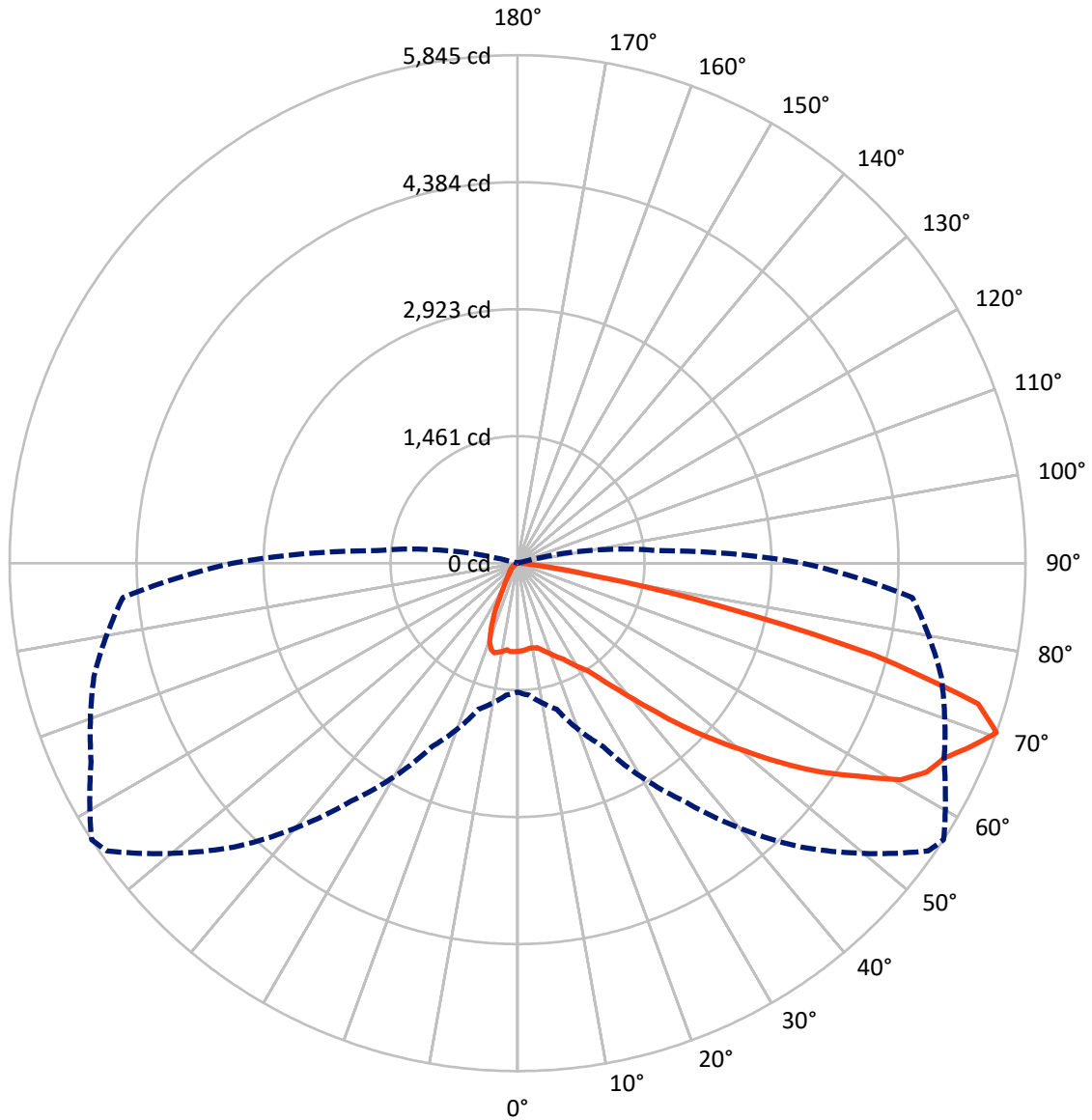
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P673282  
CATALOG NUMBER: CCP-SA-2D-750-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P673282

CATALOG NUMBER: CCP-SA-2D-750-U-T3-HSS

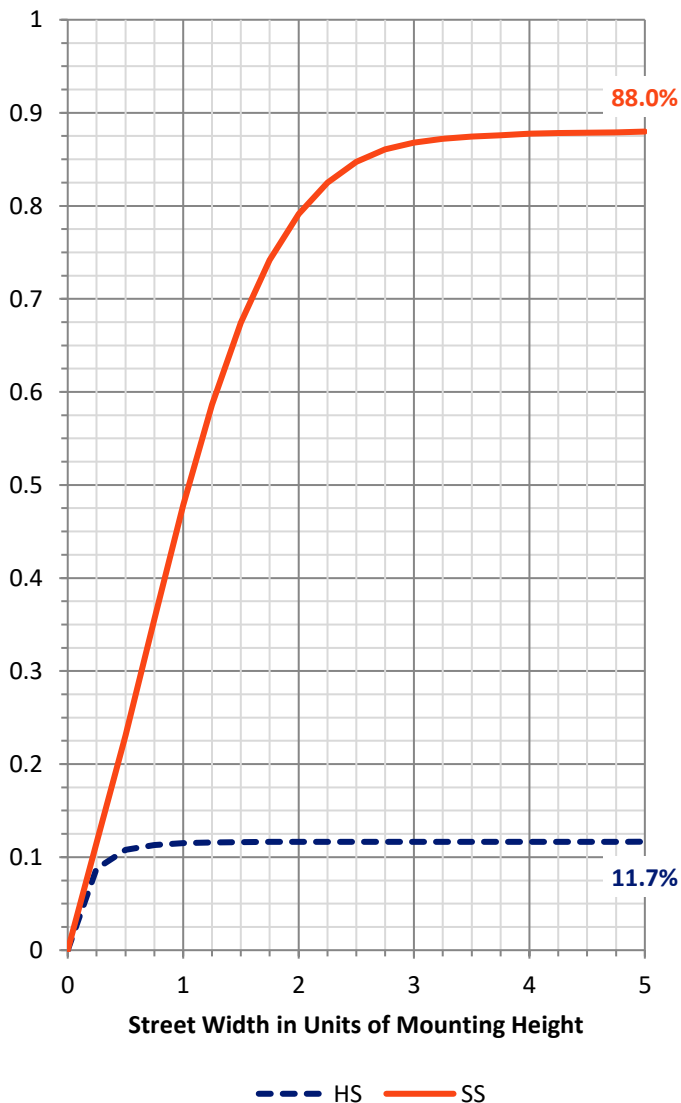
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 968.8    | 0.0    | 968.8  |
|                    | % Fixture | 11.8     | 0.0    | 11.8   |
| <b>Street Side</b> | Lumens    | 7249.8   | 0.0    | 7249.8 |
|                    | % Fixture | 88.2     | 0.0    | 88.2   |
| <b>Total</b>       | Lumens    | 8218.6   | 0.0    | 8218.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.8   | 1.2       |
| 10°-20°   | 264.9  | 3.2       |
| 20°-30°   | 446.3  | 5.4       |
| 30°-40°   | 763.8  | 9.3       |
| 40°-50°   | 1282.5 | 15.6      |
| 50°-60°   | 1968.7 | 24.0      |
| 60°-70°   | 2272.9 | 27.7      |
| 70°-80°   | 1073.7 | 13.1      |
| 80°-90°   | 50.9   | 0.6       |
| 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°    | 8218.6 | 100.0     |
| 0°-180°   | 8218.6 | 100.0     |



REPORT NUMBER: P673282

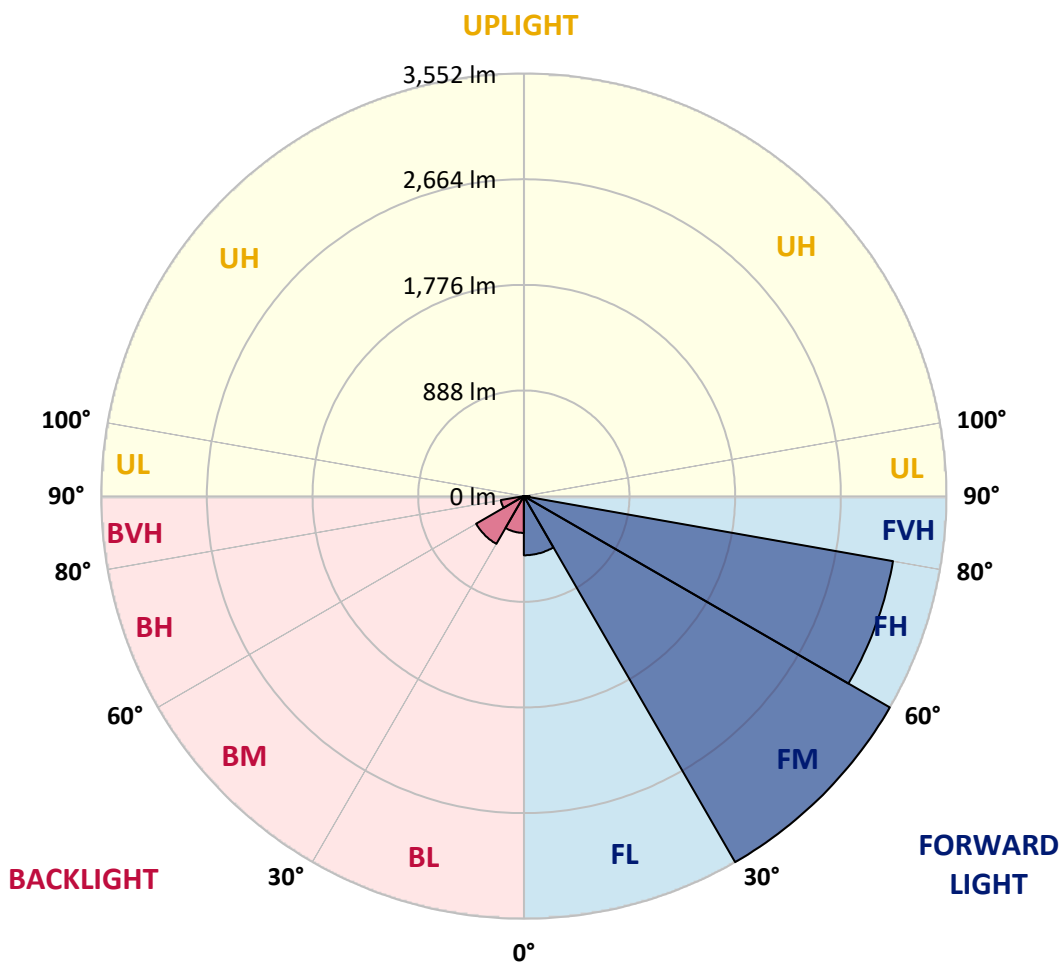
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 497.2  | 6.0       |                         |      |         |
| FM (30°-60°)   | 3551.9 | 43.2      |                         |      |         |
| FH (60°-80°)   | 3150.7 | 38.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 50.0   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 308.8  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 463.1  | 5.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 195.9  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.9    | 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 Medium





REPORT NUMBER: P673282

CATALOG NUMBER: CCP-SA-2D-750-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 |
| 2.5°  | 999.4  | 993.1  | 999.4  | 1007.8 | 999.4  | 1005.7 | 1003.6 | 1009.9 | 1001.5 | 1001.5 | 1007.8 |
| 5°    | 934.3  | 944.8  | 949.0  | 959.5  | 970.0  | 988.9  | 1001.5 | 1001.5 | 1014.1 | 1020.4 | 1028.8 |
| 7.5°  | 911.2  | 894.4  | 911.2  | 919.6  | 930.1  | 961.6  | 980.5  | 988.9  | 1005.7 | 1028.8 | 1041.4 |
| 10°   | 877.6  | 890.2  | 890.2  | 917.5  | 932.2  | 951.1  | 984.7  | 991.0  | 1028.8 | 1051.9 | 1064.5 |
| 12.5° | 875.5  | 875.5  | 886.0  | 904.9  | 934.3  | 970.0  | 1012.0 | 999.4  | 1039.3 | 1081.3 | 1102.2 |
| 15°   | 881.8  | 896.5  | 896.5  | 921.7  | 944.8  | 995.2  | 1030.9 | 1033.0 | 1089.6 | 1131.6 | 1150.5 |
| 17.5° | 909.1  | 902.8  | 911.2  | 925.9  | 961.6  | 1009.9 | 1068.7 | 1075.0 | 1140.0 | 1196.7 | 1224.0 |
| 20°   | 965.8  | 976.3  | 963.7  | 955.3  | 970.0  | 1033.0 | 1108.5 | 1121.1 | 1194.6 | 1249.2 | 1276.5 |
| 22.5° | 1177.8 | 1169.4 | 1119.0 | 1060.3 | 1035.1 | 1064.5 | 1146.3 | 1175.7 | 1261.8 | 1326.9 | 1350.0 |
| 25°   | 1417.2 | 1402.5 | 1343.7 | 1255.5 | 1140.0 | 1127.4 | 1221.9 | 1221.9 | 1345.8 | 1417.2 | 1410.9 |
| 27.5° | 1643.9 | 1639.7 | 1570.4 | 1478.1 | 1314.3 | 1224.0 | 1282.8 | 1305.9 | 1440.3 | 1499.1 | 1471.8 |
| 30°   | 1874.9 | 1879.1 | 1816.1 | 1704.8 | 1532.6 | 1379.4 | 1368.9 | 1387.8 | 1511.7 | 1604.0 | 1547.3 |
| 32.5° | 2143.6 | 2105.8 | 2061.7 | 1908.5 | 1751.0 | 1578.8 | 1480.2 | 1471.8 | 1591.4 | 1675.4 | 1599.8 |
| 35°   | 2382.9 | 2359.9 | 2311.6 | 2173.0 | 1992.4 | 1786.7 | 1648.1 | 1627.1 | 1692.2 | 1803.5 | 1721.6 |
| 37.5° | 2592.9 | 2569.8 | 2506.8 | 2414.4 | 2273.8 | 2044.9 | 1849.7 | 1818.2 | 1845.5 | 1963.0 | 1864.4 |
| 40°   | 2773.5 | 2779.8 | 2763.0 | 2672.7 | 2542.5 | 2334.7 | 2110.0 | 2059.6 | 2036.5 | 2141.5 | 2030.2 |
| 42.5° | 2903.6 | 2964.5 | 2968.7 | 2857.4 | 2752.5 | 2639.1 | 2387.1 | 2347.3 | 2292.7 | 2380.9 | 2303.2 |
| 45°   | 3176.6 | 3143.0 | 3164.0 | 3124.1 | 3008.6 | 2991.8 | 2706.3 | 2683.2 | 2607.6 | 2637.0 | 2555.1 |
| 47.5° | 3390.7 | 3384.4 | 3424.3 | 3359.2 | 3327.7 | 3329.8 | 3069.5 | 3029.6 | 2922.5 | 2977.1 | 2884.7 |
| 50°   | 3514.6 | 3481.0 | 3625.9 | 3676.3 | 3670.0 | 3695.1 | 3436.9 | 3403.3 | 3300.4 | 3380.2 | 3182.9 |
| 52.5° | 3544.0 | 3604.9 | 3741.3 | 3924.0 | 4001.7 | 4054.2 | 3837.9 | 3825.3 | 3714.0 | 3764.4 | 3491.5 |
| 55°   | 3617.5 | 3676.3 | 3756.0 | 4056.3 | 4343.9 | 4356.5 | 4232.6 | 4245.2 | 4146.5 | 4133.9 | 3785.4 |
| 57.5° | 3615.4 | 3602.8 | 3823.2 | 4171.7 | 4570.6 | 4751.2 | 4684.0 | 4623.1 | 4516.1 | 4392.2 | 3974.4 |
| 60°   | 3483.1 | 3476.8 | 3705.6 | 4186.4 | 4694.5 | 5108.1 | 5135.4 | 5064.0 | 4795.3 | 4612.6 | 4196.9 |
| 62.5° | 3220.7 | 3245.9 | 3476.8 | 4060.5 | 4812.1 | 5236.2 | 5337.0 | 5288.7 | 4954.9 | 4759.6 | 4459.4 |
| 65°   | 2920.4 | 2867.9 | 3136.7 | 3745.5 | 4547.6 | 5198.4 | 5416.7 | 5400.0 | 5143.8 | 4919.2 | 4700.8 |
| 67.5° | 2343.1 | 2366.2 | 2571.9 | 3222.8 | 4096.2 | 5059.8 | 5603.6 | 5628.8 | 5295.0 | 5059.8 | 4774.3 |
| 70°   | 1484.4 | 1526.3 | 1740.5 | 2328.4 | 3344.5 | 4623.1 | 5771.6 | 5845.1 | 5414.6 | 5047.2 | 4560.1 |
| 72.5° | 432.5  | 449.3  | 741.1  | 1161.0 | 2131.0 | 3707.7 | 5502.8 | 5540.6 | 5181.6 | 4581.1 | 3527.2 |
| 75°   | 142.8  | 151.2  | 218.3  | 377.9  | 835.6  | 1916.9 | 4064.7 | 4243.1 | 4123.4 | 3321.4 | 2017.6 |
| 77.5° | 94.5   | 98.7   | 119.7  | 180.6  | 317.0  | 600.5  | 2179.3 | 2370.4 | 2324.2 | 1555.7 | 650.8  |
| 80°   | 69.3   | 71.4   | 88.2   | 121.8  | 193.2  | 216.3  | 804.1  | 930.1  | 898.6  | 356.9  | 130.2  |
| 82.5° | 44.1   | 44.1   | 65.1   | 86.1   | 121.8  | 107.1  | 233.0  | 258.2  | 251.9  | 136.5  | 50.4   |
| 85°   | 29.4   | 31.5   | 48.3   | 67.2   | 67.2   | 50.4   | 67.2   | 77.7   | 84.0   | 73.5   | 23.1   |
| 87.5° | 8.4    | 10.5   | 27.3   | 46.2   | 27.3   | 25.2   | 23.1   | 25.2   | 29.4   | 39.9   | 12.6   |
| 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°    | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 | 1014.1 |
| 2.5°  | 1014.1 | 1022.5 | 1020.4 | 1024.6 | 1018.3 | 1012.0 | 1018.3 | 1018.3 | 1018.3 | 1012.0 | 1007.8 |
| 5°    | 1022.5 | 1018.3 | 1022.5 | 1014.1 | 1022.5 | 1014.1 | 1009.9 | 997.3  | 995.2  | 995.2  | 1003.6 |
| 7.5°  | 1035.1 | 1039.3 | 1020.4 | 1020.4 | 1001.5 | 1005.7 | 995.2  | 997.3  | 993.1  | 986.8  | 982.6  |
| 10°   | 1054.0 | 1070.8 | 1051.9 | 1045.6 | 1024.6 | 1007.8 | 982.6  | 970.0  | 970.0  | 961.6  | 970.0  |
| 12.5° | 1106.4 | 1100.1 | 1089.6 | 1068.7 | 1043.5 | 1009.9 | 949.0  | 888.1  | 837.7  | 799.9  | 818.8  |
| 15°   | 1148.4 | 1146.3 | 1131.6 | 1091.7 | 1058.2 | 955.3  | 802.0  | 644.6  | 560.6  | 522.8  | 516.5  |
| 17.5° | 1213.5 | 1207.2 | 1182.0 | 1129.5 | 1018.3 | 791.5  | 550.1  | 417.8  | 335.9  | 317.0  | 310.7  |
| 20°   | 1274.4 | 1272.3 | 1217.7 | 1150.5 | 917.5  | 577.4  | 359.0  | 275.0  | 251.9  | 254.0  | 249.8  |
| 22.5° | 1339.5 | 1329.0 | 1263.9 | 1125.3 | 730.6  | 384.2  | 256.1  | 245.6  | 237.2  | 235.1  | 239.3  |
| 25°   | 1413.0 | 1375.2 | 1310.1 | 1068.7 | 537.5  | 264.5  | 241.4  | 233.0  | 224.6  | 222.5  | 222.5  |
| 27.5° | 1442.4 | 1417.2 | 1331.1 | 932.2  | 340.1  | 230.9  | 226.7  | 216.3  | 205.8  | 199.5  | 197.4  |
| 30°   | 1509.6 | 1467.6 | 1352.1 | 732.7  | 241.4  | 212.1  | 205.8  | 193.2  | 178.5  | 168.0  | 168.0  |
| 32.5° | 1576.7 | 1526.3 | 1354.2 | 512.3  | 201.6  | 191.1  | 180.6  | 163.8  | 144.9  | 134.4  | 136.5  |
| 35°   | 1660.7 | 1591.4 | 1331.1 | 331.7  | 180.6  | 168.0  | 147.0  | 128.1  | 111.3  | 102.9  | 102.9  |
| 37.5° | 1803.5 | 1738.4 | 1236.6 | 218.3  | 163.8  | 142.8  | 121.8  | 100.8  | 86.1   | 79.8   | 79.8   |
| 40°   | 1984.0 | 1900.1 | 1106.4 | 172.2  | 144.9  | 121.8  | 96.6   | 77.7   | 69.3   | 63.0   | 63.0   |
| 42.5° | 2200.3 | 2095.3 | 913.3  | 153.3  | 128.1  | 100.8  | 75.6   | 60.9   | 52.5   | 52.5   | 50.4   |
| 45°   | 2416.5 | 2244.4 | 715.9  | 140.7  | 113.4  | 84.0   | 58.8   | 48.3   | 44.1   | 42.0   | 42.0   |
| 47.5° | 2725.2 | 2424.9 | 512.3  | 128.1  | 98.7   | 65.1   | 48.3   | 39.9   | 35.7   | 33.6   | 35.7   |
| 50°   | 3021.2 | 2595.0 | 363.2  | 115.5  | 81.9   | 52.5   | 39.9   | 35.7   | 31.5   | 29.4   | 29.4   |
| 52.5° | 3281.5 | 2712.6 | 254.0  | 100.8  | 69.3   | 44.1   | 35.7   | 31.5   | 29.4   | 27.3   | 27.3   |
| 55°   | 3424.3 | 2672.7 | 174.3  | 86.1   | 56.7   | 37.8   | 31.5   | 27.3   | 25.2   | 23.1   | 23.1   |
| 57.5° | 3571.3 | 2561.4 | 132.3  | 71.4   | 46.2   | 35.7   | 29.4   | 25.2   | 23.1   | 21.0   | 21.0   |
| 60°   | 3695.1 | 2479.5 | 102.9  | 56.7   | 37.8   | 29.4   | 25.2   | 21.0   | 18.9   | 16.8   | 14.7   |
| 62.5° | 3701.4 | 2315.8 | 75.6   | 42.0   | 29.4   | 25.2   | 21.0   | 16.8   | 10.5   | 8.4    | 6.3    |
| 65°   | 3726.6 | 2143.6 | 54.6   | 31.5   | 21.0   | 18.9   | 14.7   | 8.4    | 4.2    | 0.0    | 0.0    |
| 67.5° | 3638.5 | 1940.0 | 44.1   | 23.1   | 14.7   | 10.5   | 6.3    | 2.1    | 0.0    | 0.0    | 0.0    |
| 70°   | 3279.4 | 1637.6 | 33.6   | 16.8   | 10.5   | 6.3    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2347.3 | 1064.5 | 23.1   | 12.6   | 4.2    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1251.3 | 453.5  | 16.8   | 8.4    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 392.6  | 115.5  | 10.5   | 4.2    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 86.1   | 31.5   | 6.3    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 29.4   | 12.6   | 4.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 10.5   | 4.2    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.2    | 2.1    | 2.1    | 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)