

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: P675231

Luminaire Tested: **CCW-SA-2D-722-U-T4W**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675231  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-722-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T4W distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8287.6 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - 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

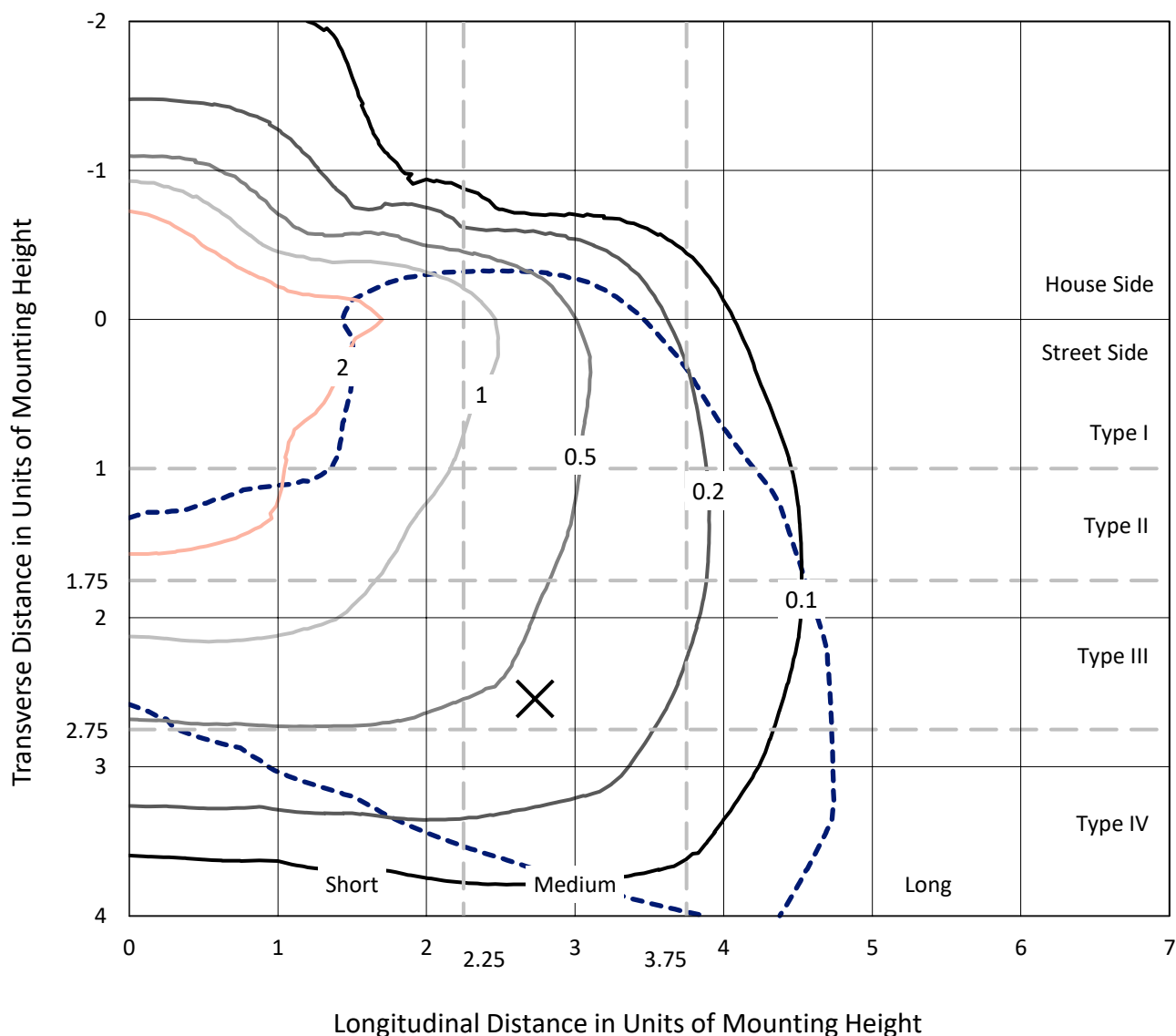
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

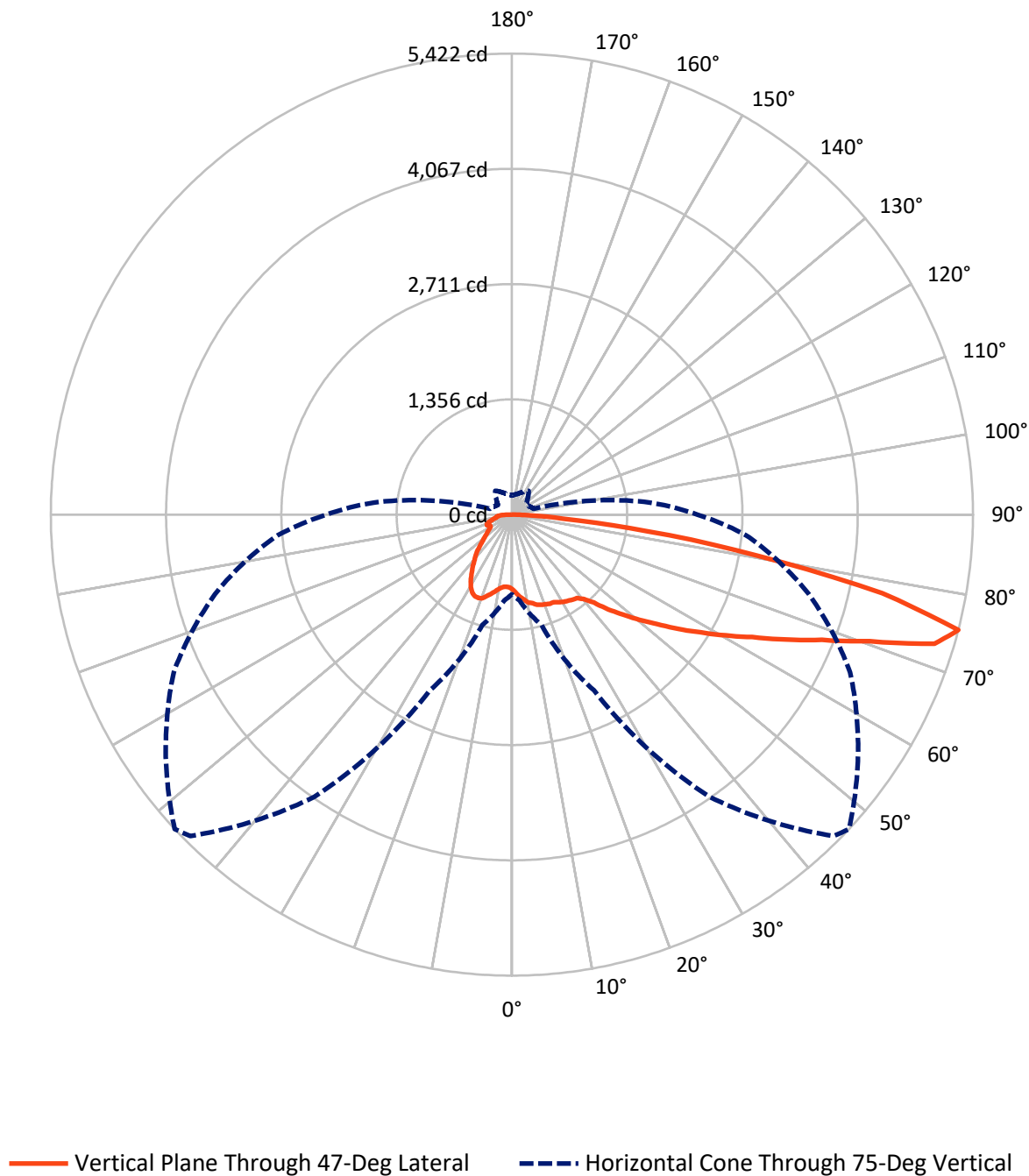


Based on 15 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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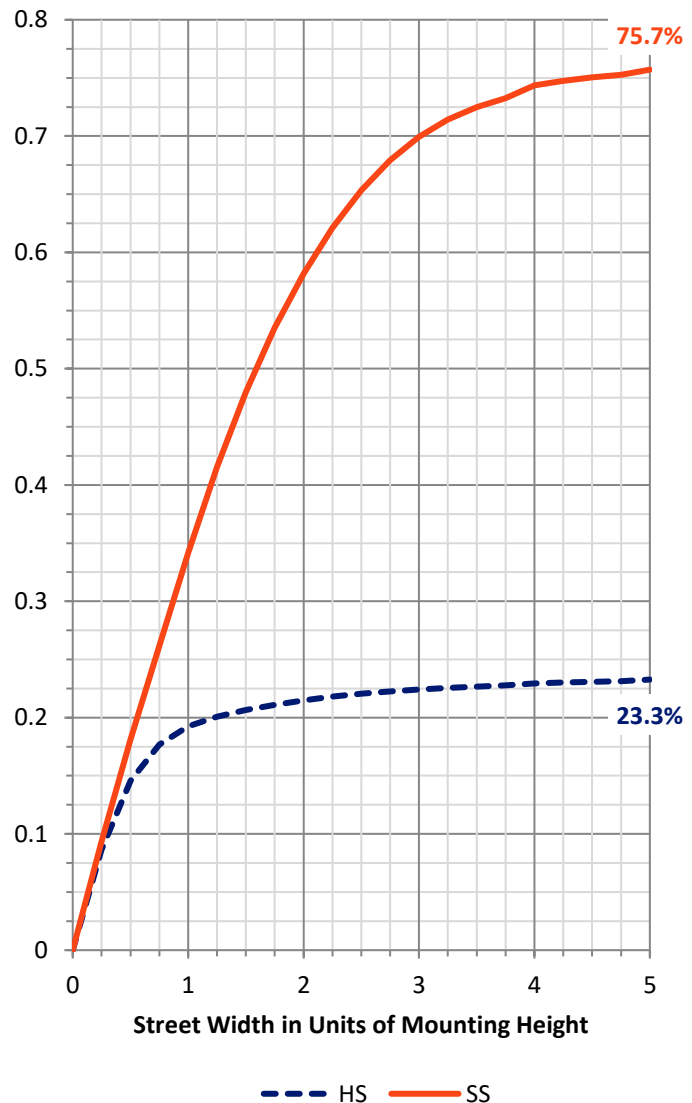
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1982.0   | 0.0    | 1982.0 |
|                    | % Fixture | 23.9     | 0.0    | 23.9   |
| <b>Street Side</b> | Lumens    | 6305.7   | 0.0    | 6305.7 |
|                    | % Fixture | 76.1     | 0.0    | 76.1   |
| <b>Total</b>       | Lumens    | 8287.6   | 0.0    | 8287.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.0   | 1.1       |
| 10°-20°   | 295.4  | 3.6       |
| 20°-30°   | 506.0  | 6.1       |
| 30°-40°   | 708.0  | 8.5       |
| 40°-50°   | 987.1  | 11.9      |
| 50°-60°   | 1475.5 | 17.8      |
| 60°-70°   | 2127.3 | 25.7      |
| 70°-80°   | 1810.8 | 21.8      |
| 80°-90°   | 288.5  | 3.5       |
| 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°    | 8287.6 | 100.0     |
| 0°-180°   | 8287.6 | 100.0     |

**Coefficient of Utilization**



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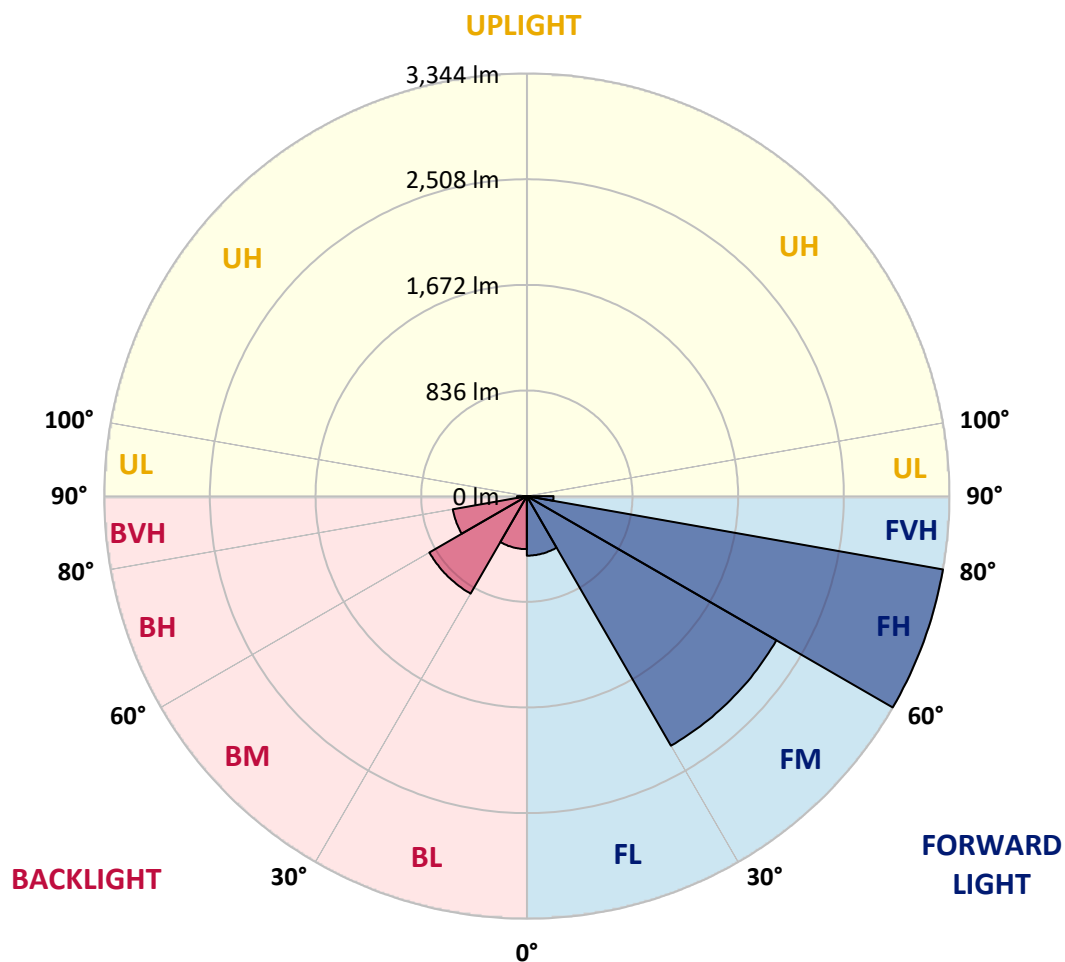
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 470.9  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 2279.9 | 27.5      |                         |      |         |
| FH   | (60°-80°)   | 3343.6 | 40.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 211.4  | 2.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 419.5  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 890.8  | 10.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 594.6  | 7.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 77.1   | 0.9       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  |
| 2.5°  | 943.5  | 946.5  | 946.5  | 940.4  | 934.4  | 922.3  | 922.3  | 910.2  | 904.2  | 889.0  | 883.0  |
| 5°    | 1031.2 | 1022.1 | 1013.0 | 1010.0 | 994.9  | 973.7  | 970.7  | 958.6  | 925.3  | 910.2  | 889.0  |
| 7.5°  | 1094.7 | 1091.6 | 1088.6 | 1076.5 | 1049.3 | 1016.0 | 1007.0 | 988.8  | 955.6  | 925.3  | 901.1  |
| 10°   | 1146.1 | 1158.2 | 1146.1 | 1118.9 | 1091.6 | 1055.4 | 1052.3 | 1019.1 | 988.8  | 952.5  | 922.3  |
| 12.5° | 1203.5 | 1206.6 | 1185.4 | 1152.1 | 1109.8 | 1079.6 | 1067.5 | 1055.4 | 1022.1 | 991.9  | 946.5  |
| 15°   | 1242.8 | 1236.8 | 1221.7 | 1176.3 | 1127.9 | 1097.7 | 1100.7 | 1085.6 | 1049.3 | 1028.1 | 979.8  |
| 17.5° | 1242.8 | 1242.8 | 1218.7 | 1185.4 | 1143.1 | 1115.8 | 1115.8 | 1106.8 | 1082.6 | 1052.3 | 1019.1 |
| 20°   | 1218.7 | 1218.7 | 1203.5 | 1185.4 | 1137.0 | 1131.0 | 1124.9 | 1118.9 | 1118.9 | 1091.6 | 1043.3 |
| 22.5° | 1188.4 | 1182.4 | 1188.4 | 1158.2 | 1124.9 | 1131.0 | 1140.0 | 1137.0 | 1127.9 | 1103.7 | 1070.5 |
| 25°   | 1158.2 | 1161.2 | 1167.2 | 1146.1 | 1115.8 | 1143.1 | 1140.0 | 1155.2 | 1149.1 | 1131.0 | 1103.7 |
| 27.5° | 1155.2 | 1161.2 | 1164.2 | 1143.1 | 1131.0 | 1155.2 | 1167.2 | 1182.4 | 1185.4 | 1167.2 | 1134.0 |
| 30°   | 1200.5 | 1197.5 | 1194.5 | 1167.2 | 1158.2 | 1179.3 | 1191.4 | 1212.6 | 1230.7 | 1191.4 | 1164.2 |
| 32.5° | 1318.4 | 1300.3 | 1282.2 | 1209.6 | 1182.4 | 1197.5 | 1209.6 | 1239.8 | 1242.8 | 1221.7 | 1182.4 |
| 35°   | 1505.9 | 1493.8 | 1433.4 | 1306.3 | 1230.7 | 1215.6 | 1227.7 | 1248.9 | 1254.9 | 1239.8 | 1209.6 |
| 37.5° | 1720.6 | 1714.6 | 1629.9 | 1475.7 | 1330.5 | 1258.0 | 1245.9 | 1276.1 | 1300.3 | 1267.0 | 1224.7 |
| 40°   | 1932.3 | 1908.1 | 1847.6 | 1696.4 | 1457.5 | 1321.5 | 1306.3 | 1321.5 | 1330.5 | 1306.3 | 1279.1 |
| 42.5° | 2122.8 | 2095.6 | 2080.5 | 1929.3 | 1623.9 | 1427.3 | 1415.2 | 1378.9 | 1406.1 | 1375.9 | 1339.6 |
| 45°   | 2283.1 | 2277.0 | 2271.0 | 2141.0 | 1814.4 | 1599.7 | 1590.6 | 1496.9 | 1527.1 | 1502.9 | 1451.5 |
| 47.5° | 2398.0 | 2425.2 | 2416.1 | 2343.6 | 2032.1 | 1784.1 | 1756.9 | 1636.0 | 1681.3 | 1657.1 | 1605.7 |
| 50°   | 2534.1 | 2549.2 | 2540.1 | 2491.7 | 2234.7 | 1995.8 | 1944.4 | 1820.4 | 1871.8 | 1868.8 | 1841.6 |
| 52.5° | 2655.0 | 2700.4 | 2649.0 | 2646.0 | 2525.0 | 2225.6 | 2137.9 | 2020.0 | 2104.7 | 2137.9 | 2134.9 |
| 55°   | 2797.2 | 2833.4 | 2818.3 | 2812.3 | 2785.1 | 2449.4 | 2370.8 | 2228.7 | 2370.8 | 2419.2 | 2461.5 |
| 57.5° | 2918.1 | 2915.1 | 2972.5 | 3042.1 | 3075.4 | 2706.4 | 2612.7 | 2446.4 | 2661.1 | 2715.5 | 2833.4 |
| 60°   | 2972.5 | 3024.0 | 3120.7 | 3296.1 | 3389.9 | 2981.6 | 2884.9 | 2751.8 | 2954.4 | 2996.7 | 3214.5 |
| 62.5° | 3008.8 | 3054.2 | 3241.7 | 3538.0 | 3592.5 | 3262.8 | 3172.1 | 3039.1 | 3274.9 | 3305.2 | 3628.7 |
| 65°   | 2909.0 | 2951.4 | 3323.3 | 3628.7 | 3822.3 | 3565.2 | 3544.1 | 3405.0 | 3595.5 | 3613.6 | 4064.2 |
| 67.5° | 2794.1 | 2839.5 | 3253.8 | 3743.7 | 4127.7 | 3967.4 | 3934.2 | 3767.8 | 3913.0 | 3891.8 | 4396.8 |
| 70°   | 2591.5 | 2652.0 | 3075.4 | 3843.4 | 4466.4 | 4529.9 | 4463.4 | 4227.5 | 4242.6 | 4043.0 | 4411.9 |
| 72.5° | 1974.6 | 2014.0 | 2407.1 | 3447.3 | 4623.6 | 5310.1 | 5195.2 | 4723.4 | 4551.1 | 4073.3 | 3894.9 |
| 75°   | 937.4  | 1010.0 | 1342.6 | 2280.1 | 4052.1 | 5346.4 | 5422.0 | 4968.4 | 4387.8 | 3613.6 | 2760.9 |
| 77.5° | 272.2  | 272.2  | 408.2  | 967.7  | 2540.1 | 4309.1 | 4451.3 | 4218.4 | 3619.7 | 2676.2 | 1451.5 |
| 80°   | 148.2  | 157.2  | 214.7  | 341.7  | 1115.8 | 2718.5 | 2924.2 | 2797.2 | 2131.9 | 1058.4 | 375.0  |
| 82.5° | 84.7   | 87.7   | 142.1  | 205.6  | 508.0  | 1478.7 | 1599.7 | 1451.5 | 810.4  | 320.5  | 175.4  |
| 85°   | 48.4   | 51.4   | 81.6   | 136.1  | 302.4  | 544.3  | 592.7  | 514.1  | 326.6  | 214.7  | 87.7   |
| 87.5° | 24.2   | 24.2   | 39.3   | 63.5   | 154.2  | 154.2  | 151.2  | 184.5  | 196.6  | 130.0  | 39.3   |
| 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°    | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  | 880.0  |
| 2.5°  | 880.0  | 876.9  | 876.9  | 864.9  | 861.8  | 852.8  | 852.8  | 846.7  | 843.7  | 852.8  | 852.8  |
| 5°    | 883.0  | 867.9  | 864.9  | 852.8  | 855.8  | 849.7  | 861.8  | 855.8  | 852.8  | 852.8  | 849.7  |
| 7.5°  | 889.0  | 873.9  | 861.8  | 852.8  | 849.7  | 858.8  | 873.9  | 873.9  | 892.1  | 883.0  | 883.0  |
| 10°   | 904.2  | 895.1  | 880.0  | 873.9  | 873.9  | 883.0  | 901.1  | 913.2  | 928.4  | 928.4  | 919.3  |
| 12.5° | 940.4  | 925.3  | 907.2  | 898.1  | 910.2  | 919.3  | 937.4  | 949.5  | 967.7  | 973.7  | 967.7  |
| 15°   | 967.7  | 952.5  | 946.5  | 940.4  | 949.5  | 961.6  | 976.7  | 988.8  | 1010.0 | 1016.0 | 1013.0 |
| 17.5° | 1004.0 | 985.8  | 982.8  | 985.8  | 991.9  | 1000.9 | 1010.0 | 1019.1 | 1034.2 | 1034.2 | 1034.2 |
| 20°   | 1022.1 | 1016.0 | 1013.0 | 1022.1 | 1034.2 | 1046.3 | 1040.2 | 1034.2 | 1031.2 | 1037.2 | 1034.2 |
| 22.5° | 1055.4 | 1049.3 | 1052.3 | 1061.4 | 1061.4 | 1055.4 | 1046.3 | 1025.1 | 1019.1 | 1025.1 | 1019.1 |
| 25°   | 1085.6 | 1079.6 | 1079.6 | 1073.5 | 1070.5 | 1049.3 | 1031.2 | 1013.0 | 991.9  | 1000.9 | 997.9  |
| 27.5° | 1115.8 | 1112.8 | 1112.8 | 1088.6 | 1058.4 | 1022.1 | 997.9  | 976.7  | 964.6  | 979.8  | 970.7  |
| 30°   | 1152.1 | 1155.2 | 1140.0 | 1082.6 | 1010.0 | 970.7  | 943.5  | 940.4  | 937.4  | 946.5  | 943.5  |
| 32.5° | 1185.4 | 1188.4 | 1164.2 | 1073.5 | 973.7  | 898.1  | 870.9  | 873.9  | 889.0  | 904.2  | 919.3  |
| 35°   | 1203.5 | 1218.7 | 1188.4 | 1043.3 | 901.1  | 816.5  | 786.2  | 813.4  | 840.7  | 861.8  | 876.9  |
| 37.5° | 1236.8 | 1276.1 | 1224.7 | 1010.0 | 837.6  | 743.9  | 722.7  | 731.8  | 765.1  | 798.3  | 813.4  |
| 40°   | 1285.2 | 1330.5 | 1233.8 | 946.5  | 753.0  | 671.3  | 659.2  | 662.2  | 674.3  | 695.5  | 710.6  |
| 42.5° | 1369.9 | 1418.2 | 1242.8 | 864.9  | 668.3  | 626.0  | 592.7  | 583.6  | 574.6  | 574.6  | 571.5  |
| 45°   | 1493.8 | 1539.2 | 1230.7 | 762.0  | 583.6  | 553.4  | 529.2  | 508.0  | 483.8  | 444.5  | 450.6  |
| 47.5° | 1675.3 | 1711.6 | 1239.8 | 671.3  | 505.0  | 480.8  | 462.7  | 438.5  | 402.2  | 359.9  | 356.8  |
| 50°   | 1950.5 | 1896.0 | 1227.7 | 577.6  | 447.5  | 426.4  | 411.3  | 378.0  | 335.7  | 305.4  | 302.4  |
| 52.5° | 2271.0 | 2162.1 | 1215.6 | 499.0  | 399.2  | 381.0  | 368.9  | 332.6  | 293.3  | 278.2  | 275.2  |
| 55°   | 2658.1 | 2500.8 | 1233.8 | 429.4  | 362.9  | 347.8  | 335.7  | 302.4  | 272.2  | 260.1  | 257.0  |
| 57.5° | 3114.7 | 2866.7 | 1333.6 | 375.0  | 323.6  | 317.5  | 314.5  | 287.3  | 260.1  | 251.0  | 248.0  |
| 60°   | 3544.1 | 3217.5 | 1400.1 | 335.7  | 287.3  | 293.3  | 299.4  | 287.3  | 257.0  | 251.0  | 251.0  |
| 62.5° | 3903.9 | 3507.8 | 1294.3 | 302.4  | 269.1  | 287.3  | 314.5  | 305.4  | 293.3  | 299.4  | 293.3  |
| 65°   | 4221.4 | 3607.6 | 967.7  | 284.3  | 260.1  | 302.4  | 347.8  | 344.7  | 317.5  | 323.6  | 320.5  |
| 67.5° | 4275.9 | 3486.6 | 632.0  | 269.1  | 254.0  | 332.6  | 390.1  | 353.8  | 299.4  | 299.4  | 290.3  |
| 70°   | 4049.1 | 3163.1 | 423.4  | 254.0  | 251.0  | 332.6  | 399.2  | 332.6  | 281.2  | 281.2  | 269.1  |
| 72.5° | 3323.3 | 2528.0 | 326.6  | 238.9  | 229.8  | 296.3  | 378.0  | 314.5  | 263.1  | 257.0  | 235.9  |
| 75°   | 2183.3 | 1629.9 | 266.1  | 226.8  | 199.6  | 260.1  | 341.7  | 290.3  | 251.0  | 232.8  | 223.8  |
| 77.5° | 1070.5 | 731.8  | 223.8  | 199.6  | 172.4  | 226.8  | 311.5  | 275.2  | 235.9  | 217.7  | 211.7  |
| 80°   | 293.3  | 263.1  | 187.5  | 175.4  | 145.1  | 196.6  | 293.3  | 263.1  | 220.7  | 202.6  | 193.5  |
| 82.5° | 166.3  | 163.3  | 151.2  | 142.1  | 121.0  | 196.6  | 296.3  | 263.1  | 208.7  | 205.6  | 175.4  |
| 85°   | 90.7   | 96.8   | 108.9  | 105.8  | 93.7   | 175.4  | 281.2  | 229.8  | 169.3  | 142.1  | 142.1  |
| 87.5° | 36.3   | 45.4   | 54.4   | 60.5   | 63.5   | 130.0  | 211.7  | 175.4  | 130.0  | 108.9  | 108.9  |
| 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)