

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: P673249

Luminaire Tested: **CCP-SA-2D-730-U-T3-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673249
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-T3-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T3 distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

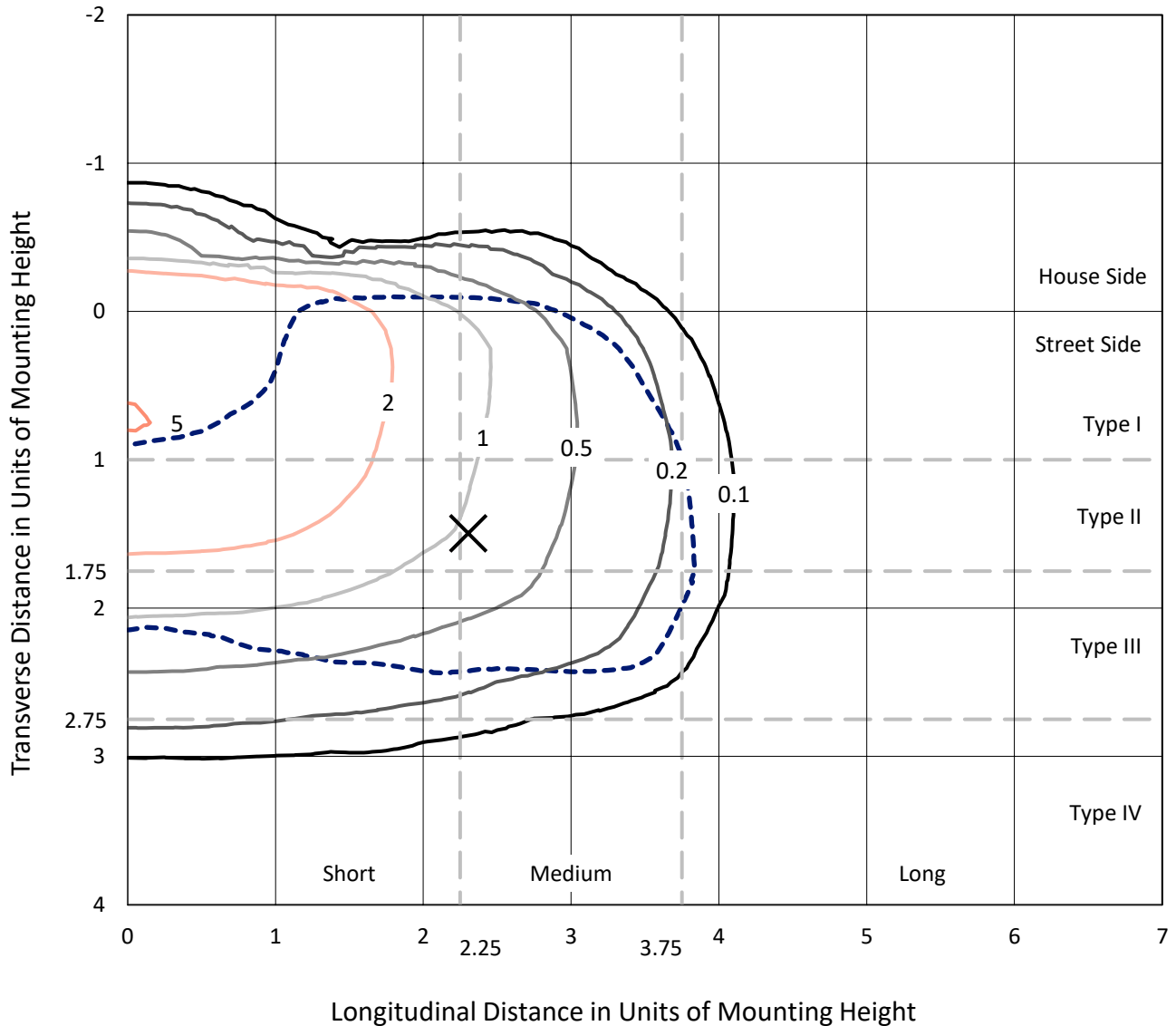
Lumens per Lamp: N/A
Luminaire Lumens: 7316.3 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

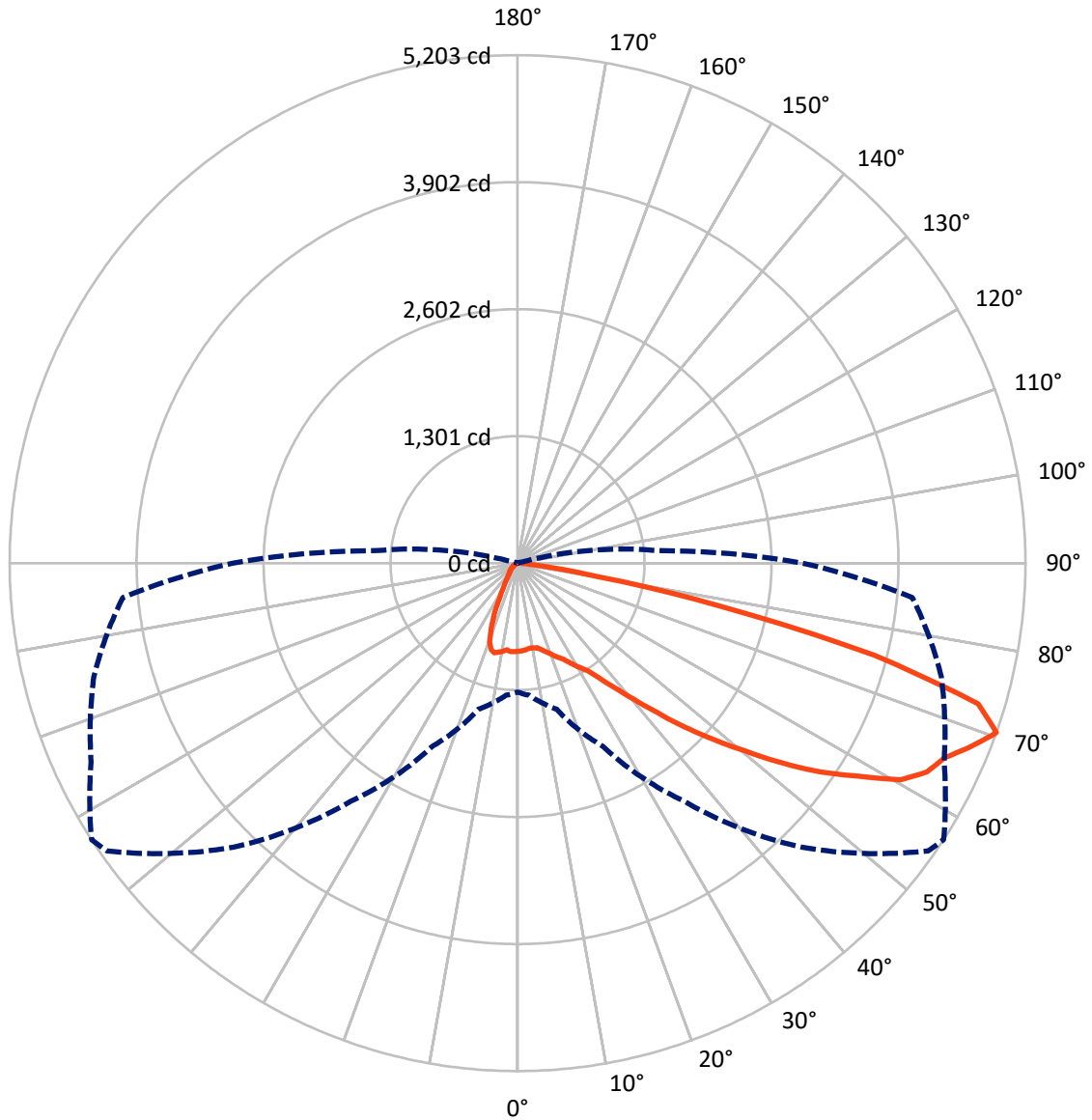
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 862.4 | 0.0 | 862.4 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 6453.9 | 0.0 | 6453.9 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 7316.3 | 0.0 | 7316.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 84.4 | 1.2 |
| 10°-20° | 235.9 | 3.2 |
| 20°-30° | 397.3 | 5.4 |
| 30°-40° | 680.0 | 9.3 |
| 40°-50° | 1141.7 | 15.6 |
| 50°-60° | 1752.5 | 24.0 |
| 60°-70° | 2023.4 | 27.7 |
| 70°-80° | 955.8 | 13.1 |
| 80°-90° | 45.3 | 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° | 7316.3 | 100.0 |
| 0°-180° | 7316.3 | 100.0 |



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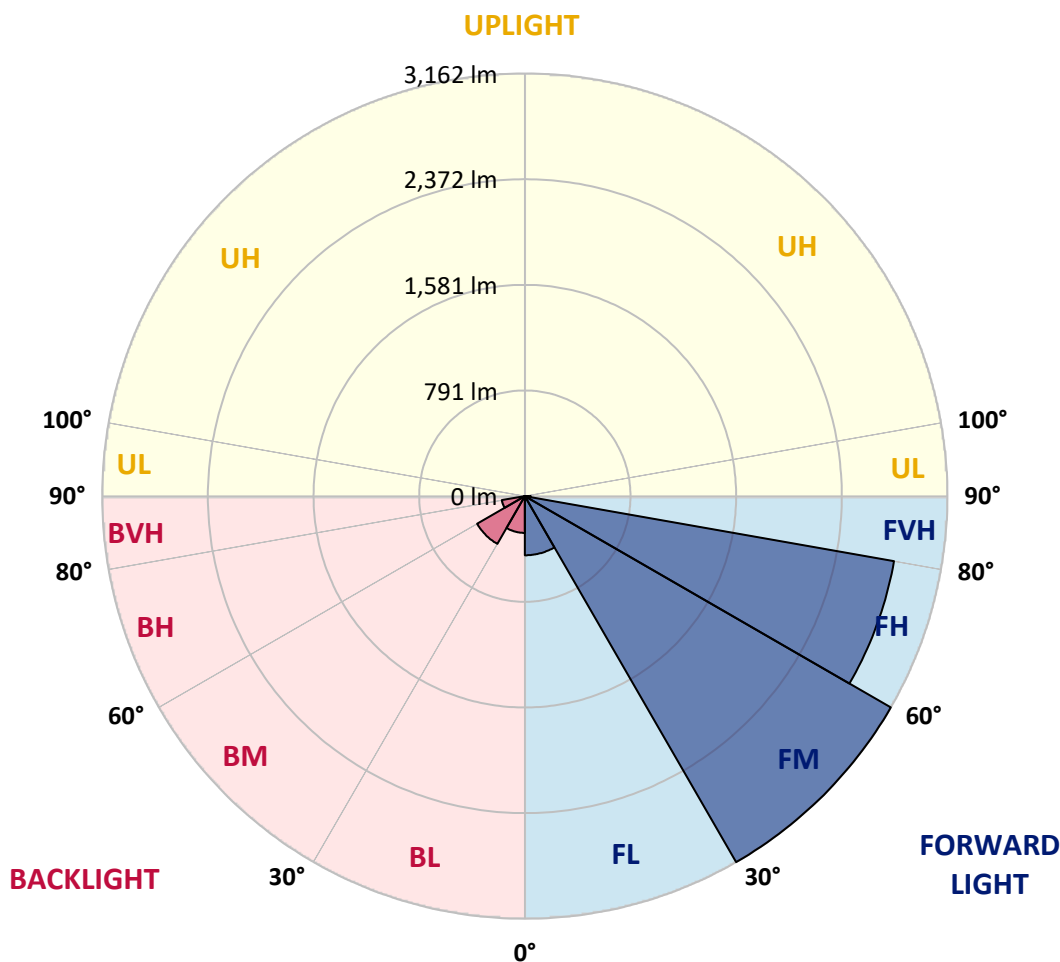
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 442.6 | 6.0 | | | |
| FM (30°-60°) | 3162.0 | 43.2 | | | |
| FH (60°-80°) | 2804.8 | 38.3 | | | G2/5000 |
| FVH (80°-90°) | 44.5 | 0.6 | | | G1/100 |
| BL (0°-30°) | 274.9 | 3.8 | B1/500 | | |
| BM (30°-60°) | 412.2 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 174.4 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.8 | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 |
| 2.5° | 889.7 | 884.0 | 889.7 | 897.1 | 889.7 | 895.3 | 893.4 | 899.0 | 891.5 | 891.5 | 897.1 |
| 5° | 831.7 | 841.1 | 844.8 | 854.1 | 863.5 | 880.3 | 891.5 | 891.5 | 902.7 | 908.3 | 915.8 |
| 7.5° | 811.2 | 796.2 | 811.2 | 818.6 | 828.0 | 856.0 | 872.8 | 880.3 | 895.3 | 915.8 | 927.0 |
| 10° | 781.2 | 792.5 | 792.5 | 816.8 | 829.8 | 846.7 | 876.6 | 882.2 | 915.8 | 936.4 | 947.6 |
| 12.5° | 779.4 | 779.4 | 788.7 | 805.5 | 831.7 | 863.5 | 900.9 | 889.7 | 925.2 | 962.5 | 981.2 |
| 15° | 785.0 | 798.1 | 798.1 | 820.5 | 841.1 | 885.9 | 917.7 | 919.6 | 970.0 | 1007.4 | 1024.2 |
| 17.5° | 809.3 | 803.7 | 811.2 | 824.2 | 856.0 | 899.0 | 951.3 | 956.9 | 1014.9 | 1065.3 | 1089.6 |
| 20° | 859.7 | 869.1 | 857.9 | 850.4 | 863.5 | 919.6 | 986.8 | 998.1 | 1063.5 | 1112.1 | 1136.4 |
| 22.5° | 1048.5 | 1041.0 | 996.2 | 943.9 | 921.4 | 947.6 | 1020.5 | 1046.7 | 1123.3 | 1181.2 | 1201.8 |
| 25° | 1261.6 | 1248.5 | 1196.2 | 1117.7 | 1014.9 | 1003.7 | 1087.8 | 1087.8 | 1198.0 | 1261.6 | 1256.0 |
| 27.5° | 1463.4 | 1459.7 | 1398.0 | 1315.8 | 1170.0 | 1089.6 | 1142.0 | 1162.5 | 1282.1 | 1334.5 | 1310.2 |
| 30° | 1669.0 | 1672.8 | 1616.7 | 1517.6 | 1364.4 | 1227.9 | 1218.6 | 1235.4 | 1345.7 | 1427.9 | 1377.5 |
| 32.5° | 1908.3 | 1874.6 | 1835.4 | 1698.9 | 1558.8 | 1405.5 | 1317.7 | 1310.2 | 1416.7 | 1491.5 | 1424.2 |
| 35° | 2121.3 | 2100.8 | 2057.8 | 1934.4 | 1773.7 | 1590.5 | 1467.2 | 1448.5 | 1506.4 | 1605.5 | 1532.6 |
| 37.5° | 2308.2 | 2287.7 | 2231.6 | 2149.4 | 2024.1 | 1820.4 | 1646.6 | 1618.6 | 1642.9 | 1747.5 | 1659.7 |
| 40° | 2469.0 | 2474.6 | 2459.6 | 2379.3 | 2263.4 | 2078.3 | 1878.4 | 1833.5 | 1812.9 | 1906.4 | 1807.3 |
| 42.5° | 2584.9 | 2639.1 | 2642.8 | 2543.7 | 2450.3 | 2349.4 | 2125.1 | 2089.6 | 2041.0 | 2119.5 | 2050.3 |
| 45° | 2827.8 | 2797.9 | 2816.6 | 2781.1 | 2678.3 | 2663.4 | 2409.2 | 2388.6 | 2321.3 | 2347.5 | 2274.6 |
| 47.5° | 3018.5 | 3012.9 | 3048.4 | 2990.4 | 2962.4 | 2964.3 | 2732.5 | 2697.0 | 2601.7 | 2650.3 | 2568.0 |
| 50° | 3128.7 | 3098.8 | 3227.8 | 3272.7 | 3267.0 | 3289.5 | 3059.6 | 3029.7 | 2938.1 | 3009.1 | 2833.4 |
| 52.5° | 3154.9 | 3209.1 | 3330.6 | 3493.2 | 3562.3 | 3609.1 | 3416.6 | 3405.4 | 3306.3 | 3351.1 | 3108.2 |
| 55° | 3220.3 | 3272.7 | 3343.7 | 3610.9 | 3867.0 | 3878.2 | 3767.9 | 3779.2 | 3691.3 | 3680.1 | 3369.8 |
| 57.5° | 3218.4 | 3207.2 | 3403.5 | 3713.7 | 4068.9 | 4229.6 | 4169.8 | 4115.6 | 4020.3 | 3910.0 | 3538.1 |
| 60° | 3100.7 | 3095.1 | 3298.8 | 3726.8 | 4179.1 | 4547.3 | 4571.6 | 4508.1 | 4268.8 | 4106.2 | 3736.2 |
| 62.5° | 2867.1 | 2889.5 | 3095.1 | 3614.7 | 4283.8 | 4661.3 | 4751.0 | 4708.1 | 4410.9 | 4237.1 | 3969.8 |
| 65° | 2599.8 | 2553.1 | 2792.3 | 3334.3 | 4048.3 | 4627.7 | 4822.1 | 4807.1 | 4579.1 | 4379.1 | 4184.7 |
| 67.5° | 2085.8 | 2106.4 | 2289.5 | 2868.9 | 3646.5 | 4504.3 | 4988.4 | 5010.8 | 4713.7 | 4504.3 | 4250.1 |
| 70° | 1321.4 | 1358.8 | 1549.4 | 2072.7 | 2977.3 | 4115.6 | 5137.9 | 5203.3 | 4820.2 | 4493.1 | 4059.5 |
| 72.5° | 385.0 | 400.0 | 659.8 | 1033.6 | 1897.1 | 3300.7 | 4898.7 | 4932.3 | 4612.7 | 4078.2 | 3140.0 |
| 75° | 127.1 | 134.6 | 194.4 | 336.4 | 743.9 | 1706.4 | 3618.4 | 3777.3 | 3670.8 | 2956.8 | 1796.1 |
| 77.5° | 84.1 | 87.8 | 106.5 | 160.7 | 282.2 | 534.5 | 1940.0 | 2110.1 | 2069.0 | 1384.9 | 579.4 |
| 80° | 61.7 | 63.5 | 78.5 | 108.4 | 171.9 | 192.5 | 715.8 | 828.0 | 799.9 | 317.7 | 115.9 |
| 82.5° | 39.2 | 39.2 | 57.9 | 76.6 | 108.4 | 95.3 | 207.5 | 229.9 | 224.3 | 121.5 | 44.9 |
| 85° | 26.2 | 28.0 | 43.0 | 59.8 | 59.8 | 44.9 | 59.8 | 69.2 | 74.8 | 65.4 | 20.6 |
| 87.5° | 7.5 | 9.3 | 24.3 | 41.1 | 24.3 | 22.4 | 20.6 | 22.4 | 26.2 | 35.5 | 11.2 |
| 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° | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 | 902.7 |
| 2.5° | 902.7 | 910.2 | 908.3 | 912.1 | 906.5 | 900.9 | 906.5 | 906.5 | 906.5 | 900.9 | 897.1 |
| 5° | 910.2 | 906.5 | 910.2 | 902.7 | 910.2 | 902.7 | 899.0 | 887.8 | 885.9 | 885.9 | 893.4 |
| 7.5° | 921.4 | 925.2 | 908.3 | 908.3 | 891.5 | 895.3 | 885.9 | 887.8 | 884.0 | 878.4 | 874.7 |
| 10° | 938.2 | 953.2 | 936.4 | 930.8 | 912.1 | 897.1 | 874.7 | 863.5 | 863.5 | 856.0 | 863.5 |
| 12.5° | 985.0 | 979.4 | 970.0 | 951.3 | 928.9 | 899.0 | 844.8 | 790.6 | 745.7 | 712.1 | 728.9 |
| 15° | 1022.4 | 1020.5 | 1007.4 | 971.9 | 942.0 | 850.4 | 714.0 | 573.8 | 499.0 | 465.4 | 459.8 |
| 17.5° | 1080.3 | 1074.7 | 1052.3 | 1005.5 | 906.5 | 704.6 | 489.7 | 371.9 | 299.0 | 282.2 | 276.6 |
| 20° | 1134.5 | 1132.6 | 1084.0 | 1024.2 | 816.8 | 514.0 | 319.6 | 244.8 | 224.3 | 226.2 | 222.4 |
| 22.5° | 1192.4 | 1183.1 | 1125.1 | 1001.8 | 650.4 | 342.0 | 228.0 | 218.7 | 211.2 | 209.3 | 213.1 |
| 25° | 1257.8 | 1224.2 | 1166.3 | 951.3 | 478.5 | 235.5 | 214.9 | 207.5 | 200.0 | 198.1 | 198.1 |
| 27.5° | 1284.0 | 1261.6 | 1185.0 | 829.8 | 302.8 | 205.6 | 201.9 | 192.5 | 183.2 | 177.6 | 175.7 |
| 30° | 1343.8 | 1306.4 | 1203.6 | 652.3 | 214.9 | 188.8 | 183.2 | 171.9 | 158.9 | 149.5 | 149.5 |
| 32.5° | 1403.6 | 1358.8 | 1205.5 | 456.0 | 179.4 | 170.1 | 160.7 | 145.8 | 129.0 | 119.6 | 121.5 |
| 35° | 1478.4 | 1416.7 | 1185.0 | 295.3 | 160.7 | 149.5 | 130.8 | 114.0 | 99.1 | 91.6 | 91.6 |
| 37.5° | 1605.5 | 1547.5 | 1100.9 | 194.4 | 145.8 | 127.1 | 108.4 | 89.7 | 76.6 | 71.0 | 71.0 |
| 40° | 1766.2 | 1691.5 | 985.0 | 153.3 | 129.0 | 108.4 | 86.0 | 69.2 | 61.7 | 56.1 | 56.1 |
| 42.5° | 1958.7 | 1865.3 | 813.0 | 136.4 | 114.0 | 89.7 | 67.3 | 54.2 | 46.7 | 46.7 | 44.9 |
| 45° | 2151.2 | 1998.0 | 637.3 | 125.2 | 100.9 | 74.8 | 52.3 | 43.0 | 39.2 | 37.4 | 37.4 |
| 47.5° | 2426.0 | 2158.7 | 456.0 | 114.0 | 87.8 | 57.9 | 43.0 | 35.5 | 31.8 | 29.9 | 31.8 |
| 50° | 2689.5 | 2310.1 | 323.3 | 102.8 | 72.9 | 46.7 | 35.5 | 31.8 | 28.0 | 26.2 | 26.2 |
| 52.5° | 2921.3 | 2414.8 | 226.2 | 89.7 | 61.7 | 39.2 | 31.8 | 28.0 | 26.2 | 24.3 | 24.3 |
| 55° | 3048.4 | 2379.3 | 155.1 | 76.6 | 50.5 | 33.6 | 28.0 | 24.3 | 22.4 | 20.6 | 20.6 |
| 57.5° | 3179.2 | 2280.2 | 117.7 | 63.5 | 41.1 | 31.8 | 26.2 | 22.4 | 20.6 | 18.7 | 18.7 |
| 60° | 3289.5 | 2207.3 | 91.6 | 50.5 | 33.6 | 26.2 | 22.4 | 18.7 | 16.8 | 15.0 | 13.1 |
| 62.5° | 3295.1 | 2061.5 | 67.3 | 37.4 | 26.2 | 22.4 | 18.7 | 15.0 | 9.3 | 7.5 | 5.6 |
| 65° | 3317.5 | 1908.3 | 48.6 | 28.0 | 18.7 | 16.8 | 13.1 | 7.5 | 3.7 | 0.0 | 0.0 |
| 67.5° | 3239.0 | 1727.0 | 39.2 | 20.6 | 13.1 | 9.3 | 5.6 | 1.9 | 0.0 | 0.0 | 0.0 |
| 70° | 2919.4 | 1457.8 | 29.9 | 15.0 | 9.3 | 5.6 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2089.6 | 947.6 | 20.6 | 11.2 | 3.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1113.9 | 403.7 | 15.0 | 7.5 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 349.5 | 102.8 | 9.3 | 3.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 76.6 | 28.0 | 5.6 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 26.2 | 11.2 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 9.3 | 3.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.7 | 1.9 | 1.9 | 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)