

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: P674420

Luminaire Tested: **CCP-SA-2A-740-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674420
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-740-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

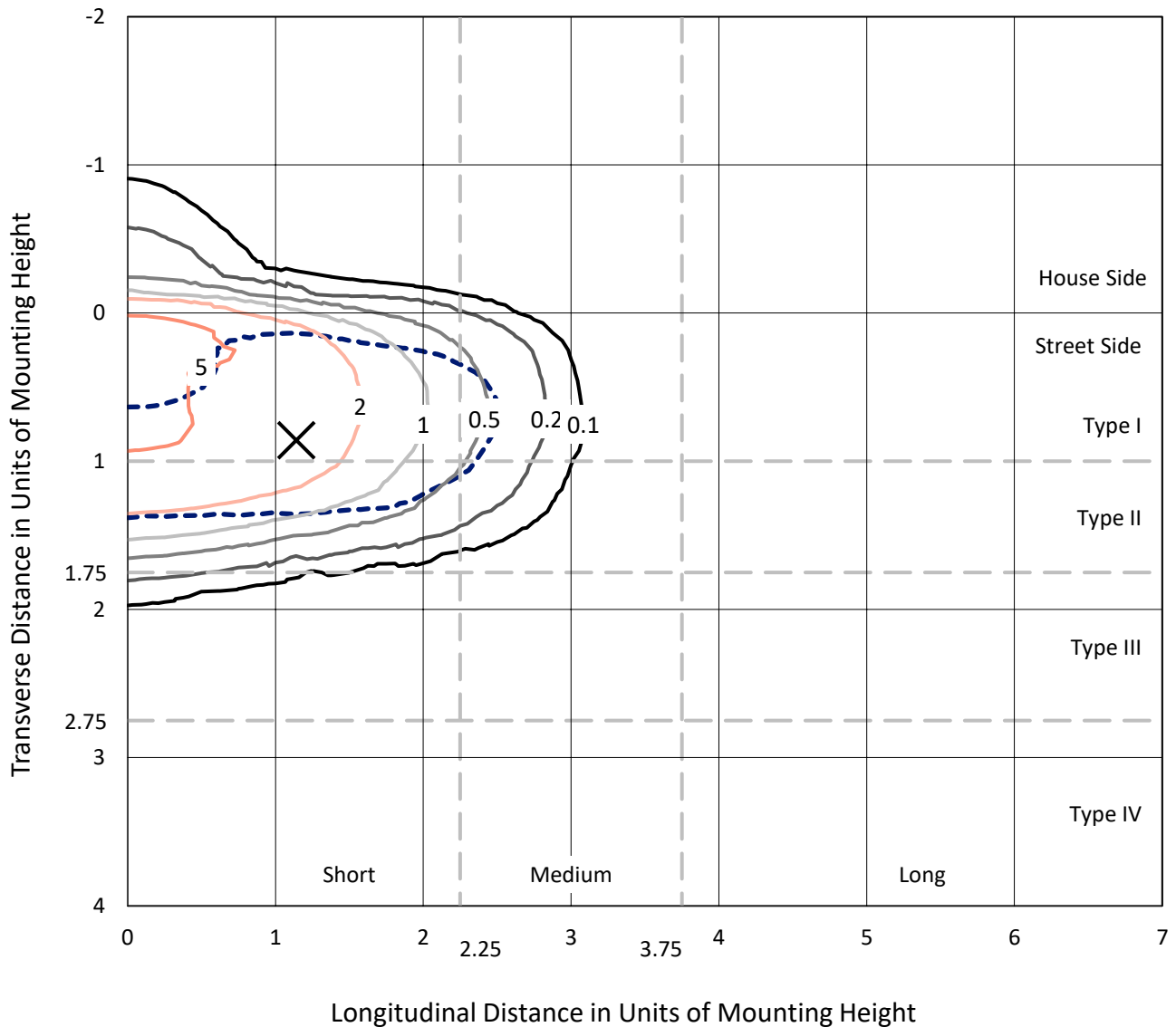
Lumens per Lamp: N/A
Luminaire Lumens: 4537.4 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

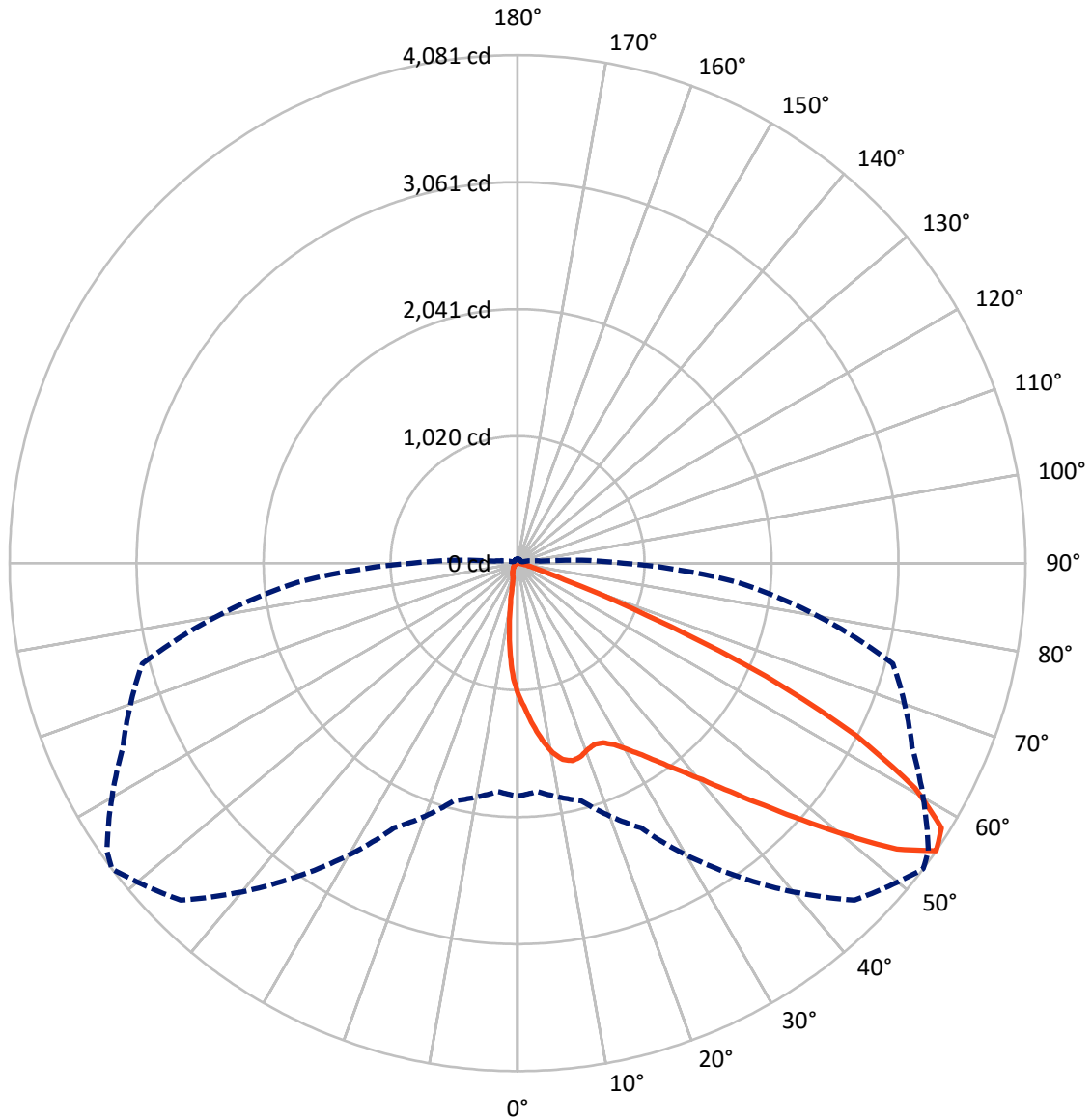
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 245.3 | 0.0 | 245.3 |
| | % Fixture | 5.4 | 0.0 | 5.4 |
| Street Side | Lumens | 4292.1 | 0.0 | 4292.1 |
| | % Fixture | 94.6 | 0.0 | 94.6 |
| Total | Lumens | 4537.4 | 0.0 | 4537.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.9 | 2.1 |
| 10°-20° | 248.1 | 5.5 |
| 20°-30° | 415.2 | 9.2 |
| 30°-40° | 679.3 | 15.0 |
| 40°-50° | 1091.9 | 24.1 |
| 50°-60° | 1232.8 | 27.2 |
| 60°-70° | 657.6 | 14.5 |
| 70°-80° | 108.1 | 2.4 |
| 80°-90° | 9.7 | 0.2 |
| 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° | 4537.4 | 100.0 |
| 0°-180° | 4537.4 | 100.0 |



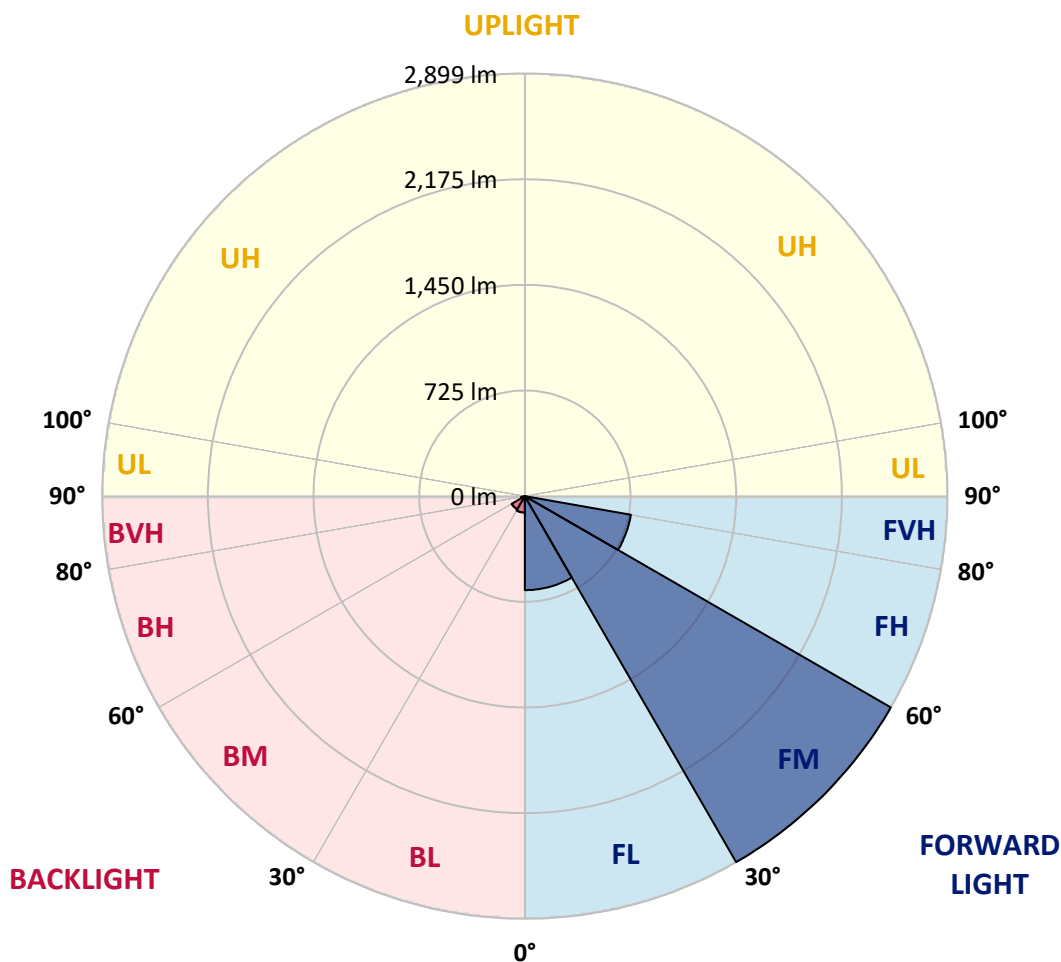
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 645.0 | 14.2 | | | |
| FM (30°-60°) | 2899.4 | 63.9 | | | |
| FH (60°-80°) | 738.8 | 16.3 | | | G1/1800 |
| FVH (80°-90°) | 8.9 | 0.2 | | | G0/10 |
| BL (0°-30°) | 113.2 | 2.5 | B1/500 | | |
| BM (30°-60°) | 104.5 | 2.3 | B0/220 | | |
| BH (60°-80°) | 26.8 | 0.6 | B0/110 | | G0/110 |
| 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 |
| 2.5° | 1273.4 | 1265.8 | 1270.2 | 1258.6 | 1237.6 | 1211.3 | 1172.0 | 1174.0 | 1143.0 | 1115.9 | 1078.6 |
| 5° | 1483.7 | 1475.7 | 1473.3 | 1443.9 | 1414.5 | 1367.2 | 1308.7 | 1299.2 | 1242.3 | 1173.6 | 1095.2 |
| 7.5° | 1594.6 | 1587.8 | 1593.0 | 1582.2 | 1553.2 | 1510.3 | 1436.3 | 1429.2 | 1341.3 | 1237.2 | 1121.9 |
| 10° | 1543.7 | 1541.3 | 1563.2 | 1588.6 | 1612.1 | 1606.9 | 1547.7 | 1536.5 | 1437.9 | 1307.1 | 1149.3 |
| 12.5° | 1406.9 | 1414.5 | 1442.3 | 1489.2 | 1561.6 | 1629.6 | 1620.0 | 1622.0 | 1536.5 | 1383.1 | 1179.5 |
| 15° | 1326.6 | 1335.8 | 1351.7 | 1375.9 | 1465.0 | 1585.8 | 1647.4 | 1667.3 | 1631.1 | 1467.8 | 1215.3 |
| 17.5° | 1319.9 | 1327.4 | 1329.8 | 1338.9 | 1391.0 | 1515.5 | 1636.3 | 1674.1 | 1715.4 | 1547.7 | 1255.5 |
| 20° | 1371.9 | 1375.1 | 1373.1 | 1366.4 | 1385.1 | 1477.3 | 1601.3 | 1655.4 | 1785.0 | 1632.7 | 1290.8 |
| 22.5° | 1470.1 | 1465.4 | 1459.4 | 1434.4 | 1433.2 | 1488.0 | 1582.2 | 1638.7 | 1826.3 | 1703.1 | 1314.3 |
| 25° | 1591.8 | 1581.9 | 1573.5 | 1538.1 | 1521.4 | 1544.1 | 1599.3 | 1644.7 | 1863.7 | 1771.5 | 1331.0 |
| 27.5° | 1724.6 | 1727.8 | 1707.1 | 1659.4 | 1633.1 | 1628.4 | 1652.2 | 1686.0 | 1899.9 | 1832.7 | 1340.1 |
| 30° | 1866.5 | 1868.1 | 1841.1 | 1791.8 | 1767.9 | 1737.3 | 1735.7 | 1756.0 | 1938.9 | 1903.1 | 1348.9 |
| 32.5° | 2028.3 | 2032.7 | 1988.5 | 1937.3 | 1895.5 | 1855.8 | 1836.3 | 1853.4 | 2008.8 | 1994.9 | 1366.8 |
| 35° | 2262.1 | 2243.0 | 2183.3 | 2105.8 | 2046.6 | 1994.5 | 1964.7 | 1975.8 | 2101.8 | 2105.0 | 1402.6 |
| 37.5° | 2503.0 | 2501.0 | 2435.0 | 2323.3 | 2226.3 | 2161.5 | 2110.6 | 2128.9 | 2232.6 | 2252.5 | 1459.8 |
| 40° | 2727.6 | 2732.8 | 2675.5 | 2578.1 | 2453.3 | 2342.0 | 2287.5 | 2299.8 | 2406.4 | 2431.4 | 1529.4 |
| 42.5° | 2874.3 | 2871.5 | 2875.9 | 2848.0 | 2722.8 | 2591.6 | 2509.7 | 2516.5 | 2608.3 | 2621.4 | 1616.4 |
| 45° | 2941.9 | 2931.1 | 2968.5 | 3056.8 | 3007.1 | 2869.1 | 2775.7 | 2767.3 | 2817.8 | 2814.3 | 1695.5 |
| 47.5° | 2883.4 | 2863.6 | 2949.4 | 3162.1 | 3258.3 | 3216.6 | 3083.0 | 3067.9 | 3025.0 | 2996.3 | 1777.8 |
| 50° | 2592.8 | 2584.1 | 2767.7 | 3112.0 | 3416.1 | 3537.8 | 3439.6 | 3383.5 | 3209.8 | 3130.7 | 1821.2 |
| 52.5° | 2316.5 | 2292.3 | 2416.3 | 2856.4 | 3345.8 | 3796.2 | 3816.5 | 3716.7 | 3363.3 | 3169.3 | 1806.5 |
| 55° | 1871.3 | 1841.5 | 1976.6 | 2346.7 | 3067.1 | 3829.2 | 4081.2 | 4029.2 | 3497.6 | 3121.6 | 1776.6 |
| 57.5° | 1136.6 | 1107.2 | 1306.0 | 1680.8 | 2452.9 | 3554.9 | 4016.0 | 4068.9 | 3601.0 | 3069.1 | 1757.2 |
| 60° | 477.9 | 459.2 | 537.1 | 802.3 | 1566.3 | 2921.6 | 3670.2 | 3802.2 | 3620.5 | 2997.1 | 1765.1 |
| 62.5° | 248.5 | 240.1 | 244.5 | 321.2 | 633.3 | 1923.7 | 3054.8 | 3284.6 | 3424.1 | 2965.3 | 1773.1 |
| 65° | 186.5 | 180.1 | 166.2 | 176.5 | 246.1 | 831.7 | 2195.3 | 2503.0 | 2998.3 | 2884.6 | 1719.4 |
| 67.5° | 153.1 | 147.1 | 137.2 | 134.0 | 145.1 | 288.6 | 1120.7 | 1520.6 | 2349.5 | 2540.7 | 1527.0 |
| 70° | 122.0 | 120.1 | 116.9 | 110.9 | 108.9 | 139.9 | 401.9 | 619.8 | 1553.6 | 1791.8 | 1106.8 |
| 72.5° | 101.8 | 102.2 | 98.6 | 93.4 | 86.3 | 90.2 | 160.2 | 211.9 | 751.8 | 859.1 | 463.5 |
| 75° | 85.1 | 85.1 | 86.3 | 79.1 | 72.0 | 62.0 | 89.1 | 103.4 | 241.3 | 198.4 | 99.0 |
| 77.5° | 66.8 | 67.6 | 72.8 | 66.8 | 57.6 | 39.0 | 48.5 | 55.3 | 71.6 | 57.2 | 36.2 |
| 80° | 53.3 | 52.5 | 50.5 | 60.0 | 51.7 | 27.4 | 23.1 | 25.4 | 33.4 | 27.4 | 17.9 |
| 82.5° | 37.4 | 37.0 | 35.4 | 40.6 | 40.2 | 20.3 | 15.1 | 15.5 | 20.3 | 17.5 | 11.1 |
| 85° | 9.1 | 10.7 | 22.7 | 19.1 | 16.7 | 11.9 | 9.1 | 9.9 | 13.1 | 11.5 | 6.0 |
| 87.5° | 4.0 | 4.0 | 10.3 | 12.3 | 8.0 | 5.2 | 4.0 | 4.4 | 6.8 | 6.8 | 3.6 |
| 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° | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 |
| 2.5° | 1065.4 | 1039.6 | 1007.0 | 972.4 | 937.0 | 894.5 | 867.5 | 845.2 | 827.7 | 814.2 | 809.4 |
| 5° | 1069.4 | 1019.7 | 945.8 | 853.9 | 760.5 | 673.1 | 605.5 | 555.4 | 514.0 | 491.4 | 481.4 |
| 7.5° | 1069.0 | 1003.0 | 869.4 | 715.6 | 563.7 | 437.7 | 348.3 | 293.0 | 256.0 | 240.9 | 231.8 |
| 10° | 1068.6 | 981.2 | 782.4 | 562.1 | 376.9 | 253.6 | 186.8 | 155.8 | 142.3 | 137.2 | 136.4 |
| 12.5° | 1080.1 | 956.1 | 685.0 | 413.8 | 236.5 | 157.8 | 130.0 | 122.8 | 119.7 | 118.1 | 117.7 |
| 15° | 1086.5 | 933.0 | 582.4 | 292.2 | 159.4 | 124.8 | 116.1 | 112.9 | 111.7 | 110.9 | 110.5 |
| 17.5° | 1093.3 | 897.3 | 485.0 | 211.5 | 127.6 | 113.3 | 108.1 | 106.1 | 105.4 | 105.4 | 105.4 |
| 20° | 1094.5 | 858.7 | 388.4 | 155.8 | 113.3 | 105.7 | 100.6 | 98.6 | 97.4 | 96.6 | 96.6 |
| 22.5° | 1085.7 | 813.0 | 305.3 | 126.4 | 105.0 | 98.6 | 93.0 | 89.8 | 87.9 | 87.5 | 87.5 |
| 25° | 1063.8 | 748.2 | 234.2 | 110.9 | 98.2 | 91.4 | 84.7 | 81.1 | 79.5 | 79.5 | 79.5 |
| 27.5° | 1032.4 | 671.9 | 180.9 | 98.6 | 89.4 | 82.7 | 76.7 | 73.5 | 73.1 | 72.8 | 73.1 |
| 30° | 996.7 | 598.3 | 138.3 | 87.5 | 79.1 | 73.5 | 68.8 | 67.2 | 68.0 | 68.0 | 68.4 |
| 32.5° | 960.9 | 524.8 | 108.1 | 78.7 | 70.0 | 65.2 | 62.8 | 62.8 | 64.0 | 64.0 | 64.0 |
| 35° | 930.3 | 452.8 | 90.6 | 71.6 | 63.6 | 59.6 | 58.4 | 59.6 | 60.4 | 60.8 | 60.8 |
| 37.5° | 913.2 | 390.8 | 79.9 | 65.2 | 58.4 | 55.3 | 54.9 | 56.1 | 57.6 | 58.8 | 59.2 |
| 40° | 906.8 | 343.1 | 73.5 | 60.4 | 53.7 | 51.7 | 51.3 | 52.9 | 55.7 | 57.6 | 58.0 |
| 42.5° | 907.2 | 300.9 | 68.0 | 55.7 | 50.5 | 47.7 | 47.7 | 50.1 | 52.9 | 54.9 | 54.9 |
| 45° | 910.0 | 264.8 | 62.4 | 50.9 | 47.7 | 42.9 | 43.3 | 46.5 | 48.5 | 50.5 | 50.5 |
| 47.5° | 912.4 | 235.7 | 56.5 | 45.7 | 41.3 | 39.0 | 39.8 | 42.1 | 44.9 | 48.1 | 48.1 |
| 50° | 898.5 | 215.1 | 50.5 | 40.2 | 36.2 | 35.4 | 37.0 | 39.0 | 42.9 | 46.1 | 46.5 |
| 52.5° | 865.1 | 196.4 | 45.3 | 35.8 | 32.6 | 33.0 | 35.0 | 36.2 | 39.4 | 39.8 | 40.2 |
| 55° | 850.4 | 186.8 | 41.3 | 32.6 | 29.8 | 31.0 | 32.2 | 32.6 | 31.8 | 29.8 | 29.8 |
| 57.5° | 847.2 | 180.5 | 37.4 | 29.4 | 27.4 | 29.0 | 28.6 | 26.2 | 23.9 | 21.5 | 21.1 |
| 60° | 850.4 | 171.7 | 34.2 | 25.4 | 25.0 | 25.4 | 24.3 | 19.9 | 16.7 | 15.1 | 14.3 |
| 62.5° | 832.1 | 159.0 | 31.4 | 21.9 | 21.9 | 21.5 | 18.3 | 13.5 | 10.7 | 9.5 | 9.1 |
| 65° | 771.6 | 134.0 | 28.6 | 18.3 | 17.9 | 17.1 | 12.3 | 9.1 | 7.2 | 6.0 | 5.6 |
| 67.5° | 652.8 | 103.8 | 25.8 | 15.1 | 14.3 | 11.9 | 8.0 | 6.0 | 4.0 | 3.6 | 3.2 |
| 70° | 445.3 | 64.4 | 21.9 | 11.9 | 10.7 | 7.6 | 4.8 | 3.6 | 2.4 | 2.0 | 1.6 |
| 72.5° | 161.4 | 37.4 | 18.3 | 9.1 | 7.2 | 4.8 | 2.8 | 1.6 | 1.2 | 1.2 | 0.8 |
| 75° | 38.2 | 26.2 | 13.9 | 6.8 | 4.8 | 2.8 | 1.6 | 1.2 | 0.8 | 0.8 | 0.4 |
| 77.5° | 17.5 | 20.3 | 9.1 | 4.0 | 3.2 | 2.0 | 1.2 | 0.8 | 0.4 | 0.4 | 0.0 |
| 80° | 9.9 | 14.3 | 4.4 | 2.8 | 2.4 | 1.6 | 0.8 | 0.4 | 0.4 | 0.0 | 0.0 |
| 82.5° | 5.2 | 8.0 | 3.2 | 2.4 | 2.0 | 1.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.6 | 4.0 | 2.4 | 2.0 | 1.6 | 1.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.8 | 2.8 | 2.4 | 2.0 | 1.6 | 1.2 | 0.4 | 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)