

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: P672138

Luminaire Tested: **CCP-SA-2A-760-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672138
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-760-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2R distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

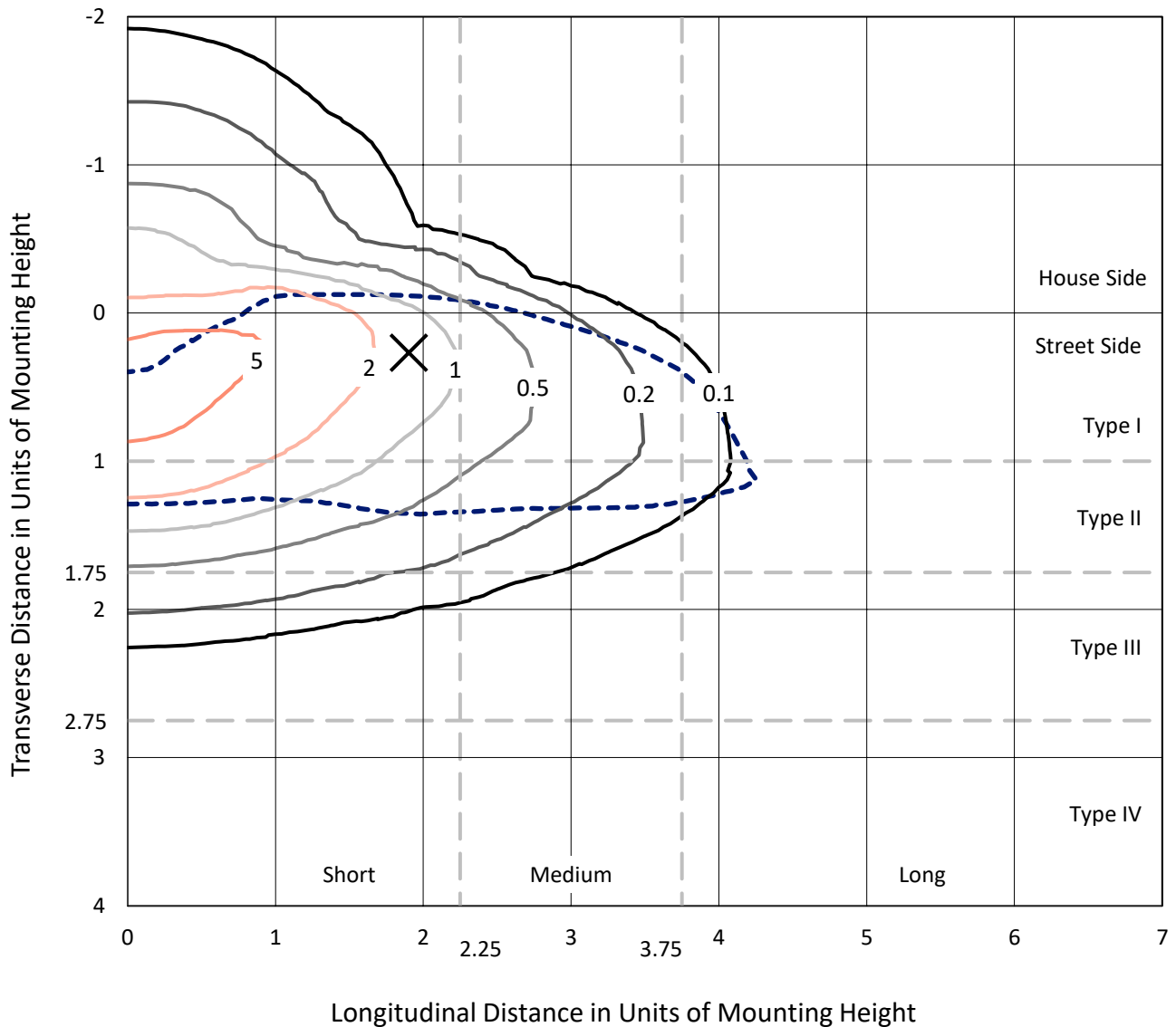
Lumens per Lamp: N/A
Luminaire Lumens: 5685.2 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (A_{in}): 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

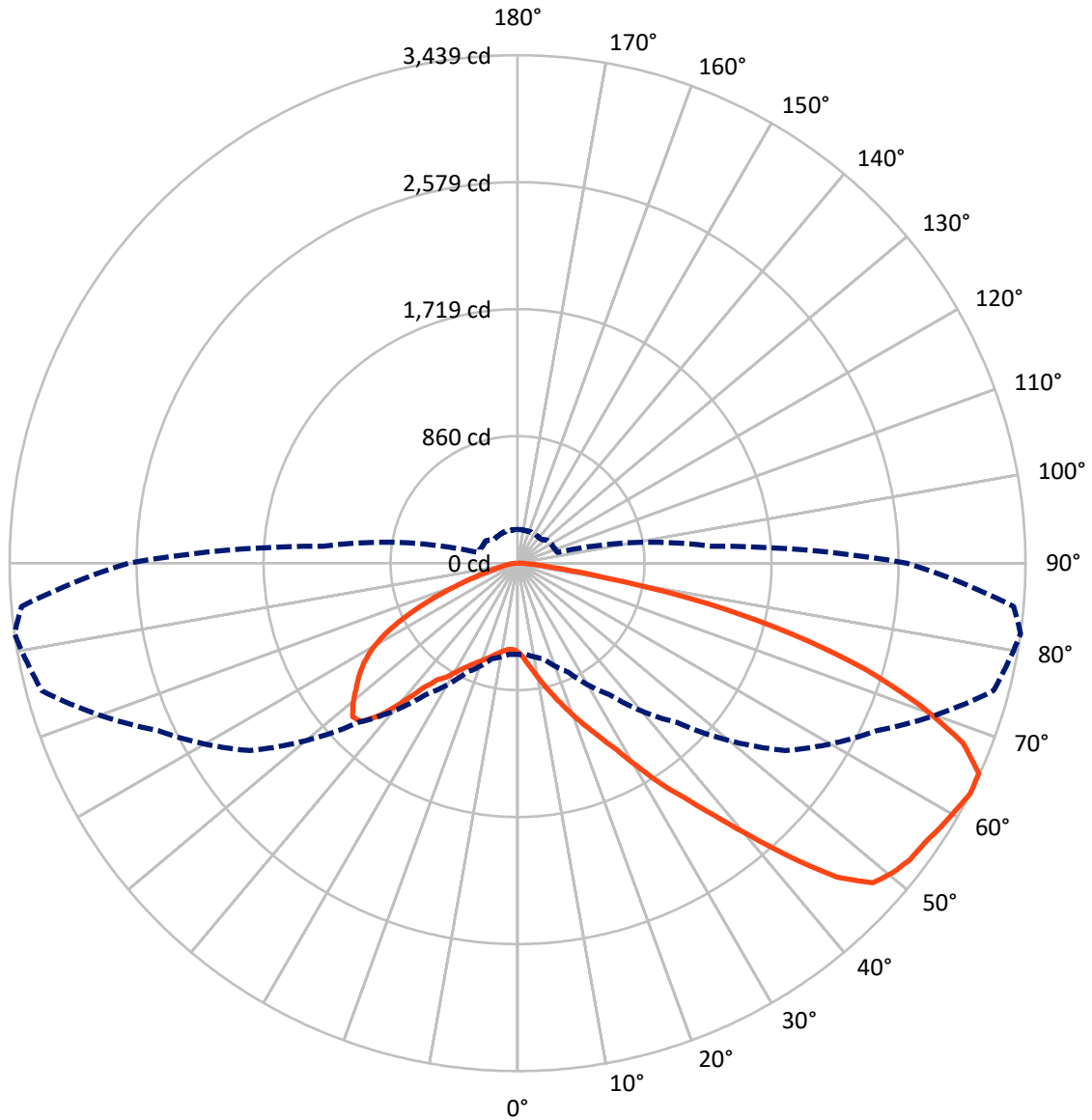
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1071.1 | 0.0 | 1071.1 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 4614.1 | 0.0 | 4614.1 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 5685.2 | 0.0 | 5685.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.9 | 1.2 |
| 10°-20° | 252.3 | 4.4 |
| 20°-30° | 522.6 | 9.2 |
| 30°-40° | 887.0 | 15.6 |
| 40°-50° | 1207.8 | 21.2 |
| 50°-60° | 1222.6 | 21.5 |
| 60°-70° | 963.5 | 16.9 |
| 70°-80° | 474.7 | 8.3 |
| 80°-90° | 87.8 | 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° | 5685.2 | 100.0 |
| 0°-180° | 5685.2 | 100.0 |



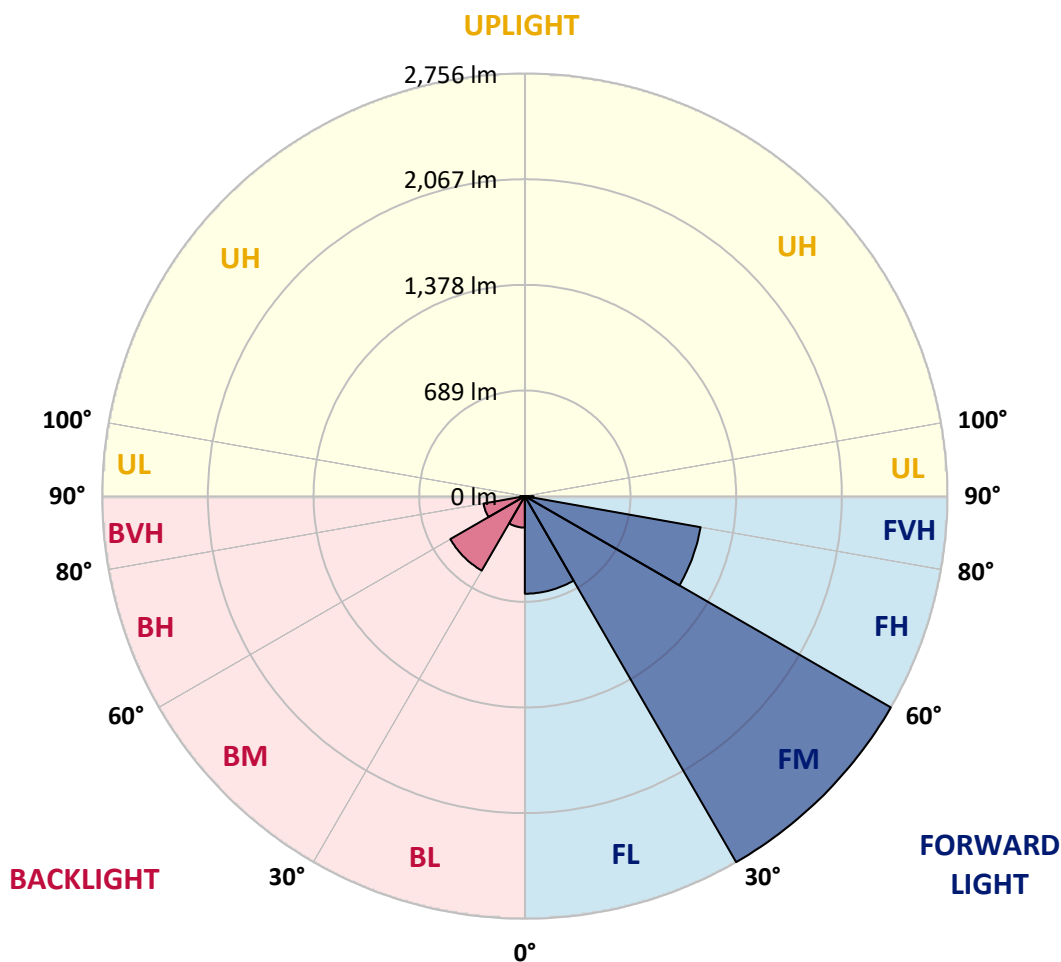
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 636.3 | 11.2 | | | |
| FM (30°-60°) | 2756.4 | 48.5 | | | |
| FH (60°-80°) | 1164.4 | 20.5 | | | G1/1800 |
| FVH (80°-90°) | 57.0 | 1.0 | | | G1/100 |
| BL (0°-30°) | 205.5 | 3.6 | B1/500 | | |
| BM (30°-60°) | 561.0 | 9.9 | B1/1000 | | |
| BH (60°-80°) | 273.8 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 30.8 | 0.5 | | | G1/100 |
| 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° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 |
| 2.5° | 805.1 | 792.9 | 786.3 | 779.0 | 758.5 | 745.4 | 720.8 | 692.2 | 659.0 | 630.8 | 625.5 |
| 5° | 975.0 | 962.7 | 964.4 | 946.4 | 916.5 | 888.7 | 842.8 | 788.8 | 725.7 | 677.4 | 660.7 |
| 7.5° | 1095.0 | 1081.4 | 1084.7 | 1077.4 | 1053.2 | 1022.5 | 964.4 | 894.8 | 802.7 | 731.1 | 704.0 |
| 10° | 1175.2 | 1176.8 | 1179.3 | 1176.4 | 1160.9 | 1139.2 | 1081.4 | 1004.5 | 889.9 | 794.5 | 757.7 |
| 12.5° | 1266.1 | 1270.6 | 1269.7 | 1271.0 | 1262.8 | 1245.6 | 1189.1 | 1116.6 | 982.8 | 862.9 | 815.0 |
| 15° | 1381.9 | 1377.4 | 1381.1 | 1386.4 | 1377.4 | 1358.6 | 1308.6 | 1222.7 | 1080.2 | 939.0 | 879.6 |
| 17.5° | 1508.8 | 1499.4 | 1509.2 | 1503.9 | 1497.3 | 1485.0 | 1430.2 | 1338.5 | 1180.9 | 1021.3 | 951.7 |
| 20° | 1618.5 | 1612.3 | 1617.7 | 1618.5 | 1619.7 | 1617.3 | 1560.8 | 1463.3 | 1286.5 | 1110.9 | 1029.5 |
| 22.5° | 1741.7 | 1738.8 | 1738.0 | 1738.4 | 1739.6 | 1742.5 | 1704.0 | 1600.1 | 1403.6 | 1205.1 | 1113.4 |
| 25° | 1914.0 | 1911.2 | 1892.3 | 1871.4 | 1859.2 | 1868.2 | 1848.1 | 1755.2 | 1532.9 | 1310.7 | 1205.5 |
| 27.5° | 2107.2 | 2102.7 | 2077.7 | 2024.9 | 1985.7 | 1992.2 | 1990.2 | 1926.3 | 1681.9 | 1431.8 | 1316.0 |
| 30° | 2307.8 | 2296.7 | 2262.4 | 2188.3 | 2126.5 | 2115.0 | 2120.7 | 2099.4 | 1869.4 | 1592.7 | 1469.9 |
| 32.5° | 2486.7 | 2466.2 | 2420.8 | 2345.9 | 2272.2 | 2239.0 | 2239.8 | 2249.3 | 2073.2 | 1780.2 | 1631.2 |
| 35° | 2596.0 | 2582.5 | 2548.5 | 2472.8 | 2390.5 | 2368.4 | 2362.2 | 2409.3 | 2260.3 | 1953.7 | 1775.7 |
| 37.5° | 2654.9 | 2641.8 | 2605.4 | 2544.4 | 2482.2 | 2473.2 | 2484.6 | 2557.5 | 2472.8 | 2170.3 | 1972.1 |
| 40° | 2644.3 | 2630.3 | 2606.6 | 2564.0 | 2523.1 | 2530.1 | 2580.8 | 2693.4 | 2704.8 | 2429.4 | 2252.1 |
| 42.5° | 2556.7 | 2541.9 | 2539.9 | 2537.0 | 2517.8 | 2548.5 | 2640.2 | 2792.8 | 2918.1 | 2728.6 | 2591.0 |
| 45° | 2401.9 | 2392.9 | 2403.6 | 2452.7 | 2476.8 | 2536.2 | 2668.0 | 2841.1 | 3105.6 | 3032.7 | 2911.6 |
| 47.5° | 2205.9 | 2200.5 | 2224.7 | 2302.5 | 2380.7 | 2498.5 | 2686.4 | 2854.2 | 3234.5 | 3234.5 | 3121.5 |
| 50° | 1986.5 | 1984.4 | 2016.3 | 2129.3 | 2251.7 | 2429.4 | 2684.4 | 2866.5 | 3291.0 | 3293.9 | 3195.6 |
| 52.5° | 1680.3 | 1690.9 | 1776.1 | 1925.1 | 2091.3 | 2320.9 | 2655.7 | 2900.9 | 3322.9 | 3329.5 | 3245.2 |
| 55° | 1327.5 | 1337.7 | 1466.2 | 1666.8 | 1879.6 | 2189.1 | 2570.2 | 2890.7 | 3329.1 | 3343.8 | 3273.4 |
| 57.5° | 1059.8 | 1061.8 | 1142.0 | 1380.3 | 1643.9 | 2020.4 | 2471.5 | 2822.7 | 3311.1 | 3375.3 | 3316.8 |
| 60° | 829.3 | 835.8 | 889.5 | 1078.2 | 1370.4 | 1803.1 | 2361.4 | 2755.6 | 3321.3 | 3405.2 | 3356.1 |
| 62.5° | 617.7 | 619.3 | 669.3 | 815.4 | 1088.8 | 1526.0 | 2212.0 | 2684.0 | 3335.6 | 3438.8 | 3372.0 |
| 65° | 402.4 | 402.0 | 450.3 | 582.1 | 813.3 | 1226.8 | 1977.5 | 2571.8 | 3336.8 | 3431.4 | 3298.8 |
| 67.5° | 255.8 | 257.5 | 278.3 | 361.4 | 544.4 | 925.9 | 1658.2 | 2363.5 | 3278.7 | 3252.9 | 3031.9 |
| 70° | 207.5 | 207.9 | 214.5 | 236.2 | 331.6 | 632.8 | 1246.4 | 2037.6 | 3094.9 | 2897.2 | 2635.3 |
| 72.5° | 185.0 | 185.4 | 188.7 | 191.2 | 221.0 | 380.3 | 817.8 | 1654.5 | 2768.3 | 2469.5 | 2186.2 |
| 75° | 166.2 | 166.2 | 168.2 | 165.8 | 181.3 | 238.6 | 464.2 | 1243.9 | 2280.0 | 1923.0 | 1651.6 |
| 77.5° | 145.7 | 145.3 | 145.3 | 144.1 | 156.8 | 174.4 | 232.5 | 868.2 | 1642.2 | 1311.5 | 1071.2 |
| 80° | 123.6 | 122.8 | 124.0 | 123.2 | 135.5 | 132.2 | 135.5 | 535.8 | 890.3 | 601.3 | 456.0 |
| 82.5° | 96.2 | 96.2 | 99.9 | 100.7 | 111.7 | 95.8 | 95.4 | 254.2 | 338.1 | 224.7 | 168.2 |
| 85° | 50.3 | 56.5 | 76.1 | 79.4 | 84.3 | 60.2 | 70.0 | 118.7 | 135.5 | 86.0 | 61.4 |
| 87.5° | 15.1 | 16.0 | 46.7 | 52.4 | 52.0 | 30.3 | 43.0 | 57.3 | 63.4 | 38.1 | 25.0 |
| 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° | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 | 604.6 |
| 2.5° | 611.9 | 597.6 | 567.3 | 540.3 | 519.8 | 500.2 | 486.7 | 479.7 | 470.7 | 472.0 | 469.1 |
| 5° | 630.8 | 601.3 | 547.7 | 504.3 | 475.2 | 453.1 | 439.6 | 432.7 | 426.1 | 422.8 | 425.3 |
| 7.5° | 659.0 | 613.2 | 538.3 | 485.9 | 455.6 | 436.8 | 429.4 | 427.3 | 425.7 | 424.5 | 426.5 |
| 10° | 695.4 | 634.0 | 536.6 | 479.3 | 451.5 | 440.0 | 437.2 | 435.9 | 434.3 | 432.7 | 433.9 |
| 12.5° | 732.7 | 657.0 | 542.4 | 481.0 | 458.0 | 449.4 | 445.8 | 444.1 | 440.0 | 438.0 | 438.4 |
| 15° | 779.4 | 684.8 | 550.1 | 487.5 | 466.6 | 455.6 | 450.7 | 446.2 | 439.6 | 436.8 | 438.0 |
| 17.5° | 829.3 | 718.0 | 560.8 | 493.6 | 469.9 | 456.4 | 446.6 | 440.0 | 433.5 | 429.4 | 429.8 |
| 20° | 885.8 | 750.7 | 570.2 | 495.7 | 468.3 | 449.4 | 437.6 | 429.8 | 421.2 | 416.7 | 415.5 |
| 22.5° | 944.3 | 785.1 | 577.6 | 494.1 | 459.3 | 437.6 | 424.1 | 414.6 | 404.4 | 397.5 | 397.9 |
| 25° | 1015.5 | 831.8 | 583.7 | 488.3 | 447.4 | 422.0 | 406.9 | 395.0 | 384.4 | 377.8 | 378.2 |
| 27.5° | 1101.1 | 884.6 | 591.1 | 479.3 | 433.1 | 405.2 | 387.6 | 375.8 | 365.5 | 359.4 | 358.6 |
| 30° | 1215.3 | 953.3 | 599.3 | 468.3 | 415.1 | 386.8 | 369.6 | 357.3 | 347.5 | 341.8 | 341.8 |
| 32.5° | 1343.8 | 1037.2 | 605.0 | 455.2 | 395.0 | 367.2 | 351.6 | 341.8 | 334.4 | 326.6 | 325.8 |
| 35° | 1455.6 | 1102.3 | 622.6 | 444.9 | 377.4 | 348.7 | 338.1 | 331.1 | 320.1 | 312.7 | 311.5 |
| 37.5° | 1619.7 | 1216.9 | 674.6 | 442.1 | 356.1 | 334.4 | 332.4 | 319.3 | 306.6 | 292.7 | 291.4 |
| 40° | 1884.1 | 1415.5 | 735.2 | 428.2 | 334.0 | 326.6 | 324.6 | 307.0 | 277.1 | 268.5 | 266.9 |
| 42.5° | 2220.6 | 1654.5 | 741.7 | 387.6 | 318.5 | 320.1 | 314.0 | 279.6 | 266.5 | 259.9 | 258.3 |
| 45° | 2524.3 | 1848.5 | 704.5 | 346.3 | 307.0 | 310.3 | 297.6 | 269.3 | 262.0 | 255.8 | 254.2 |
| 47.5° | 2695.0 | 1908.3 | 634.0 | 315.2 | 298.4 | 301.7 | 271.4 | 264.4 | 257.1 | 250.9 | 249.3 |
| 50° | 2742.9 | 1856.3 | 552.2 | 297.2 | 291.9 | 293.1 | 264.4 | 260.3 | 253.8 | 248.9 | 246.4 |
| 52.5° | 2752.3 | 1778.5 | 476.5 | 286.5 | 286.9 | 275.9 | 258.3 | 255.0 | 250.9 | 243.1 | 240.3 |
| 55° | 2756.4 | 1708.5 | 408.5 | 280.0 | 283.7 | 253.8 | 251.7 | 249.3 | 246.0 | 237.8 | 236.2 |
| 57.5° | 2767.1 | 1618.9 | 355.3 | 275.1 | 279.6 | 243.6 | 244.4 | 242.7 | 238.6 | 235.0 | 234.1 |
| 60° | 2736.8 | 1494.9 | 314.4 | 270.2 | 273.8 | 235.0 | 235.8 | 236.6 | 232.9 | 232.1 | 231.7 |
| 62.5° | 2635.3 | 1318.9 | 279.6 | 263.6 | 262.0 | 226.4 | 226.4 | 229.6 | 226.4 | 227.6 | 227.6 |
| 65° | 2426.1 | 1094.5 | 248.5 | 251.3 | 243.6 | 216.9 | 216.5 | 222.3 | 217.4 | 222.7 | 223.1 |
| 67.5° | 2069.6 | 828.5 | 216.5 | 232.1 | 224.3 | 207.1 | 208.8 | 213.3 | 206.7 | 217.8 | 217.8 |
| 70° | 1638.1 | 563.6 | 183.4 | 205.1 | 204.7 | 196.1 | 201.4 | 201.0 | 193.6 | 210.0 | 207.1 |
| 72.5° | 1220.2 | 361.8 | 149.4 | 171.9 | 178.9 | 184.2 | 194.0 | 185.4 | 178.5 | 187.9 | 179.3 |
| 75° | 852.6 | 226.8 | 117.9 | 135.9 | 149.0 | 171.1 | 185.0 | 167.8 | 157.6 | 154.7 | 152.3 |
| 77.5° | 510.4 | 144.9 | 92.9 | 103.6 | 116.2 | 155.5 | 173.6 | 149.4 | 133.9 | 132.2 | 127.3 |
| 80° | 235.4 | 94.6 | 70.8 | 77.4 | 82.7 | 133.4 | 158.0 | 127.7 | 108.9 | 107.2 | 101.5 |
| 82.5° | 106.4 | 62.2 | 52.8 | 55.3 | 55.7 | 106.0 | 133.4 | 101.1 | 83.1 | 134.7 | 116.7 |
| 85° | 49.5 | 40.1 | 34.4 | 32.7 | 33.2 | 70.8 | 97.0 | 69.6 | 94.6 | 73.7 | 56.1 |
| 87.5° | 21.3 | 20.5 | 17.6 | 13.9 | 12.7 | 15.1 | 37.2 | 29.1 | 41.3 | 16.4 | 11.1 |
| 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)