

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: P149305

Luminaire Tested: **VXS-F02-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149305  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-F02-LED-E1-SL2-HSS  
Description: VISION SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3027.3 lumens  
Efficiency: N/A  
Efficacy: 55.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 55  
Input Voltage (V): NR  
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



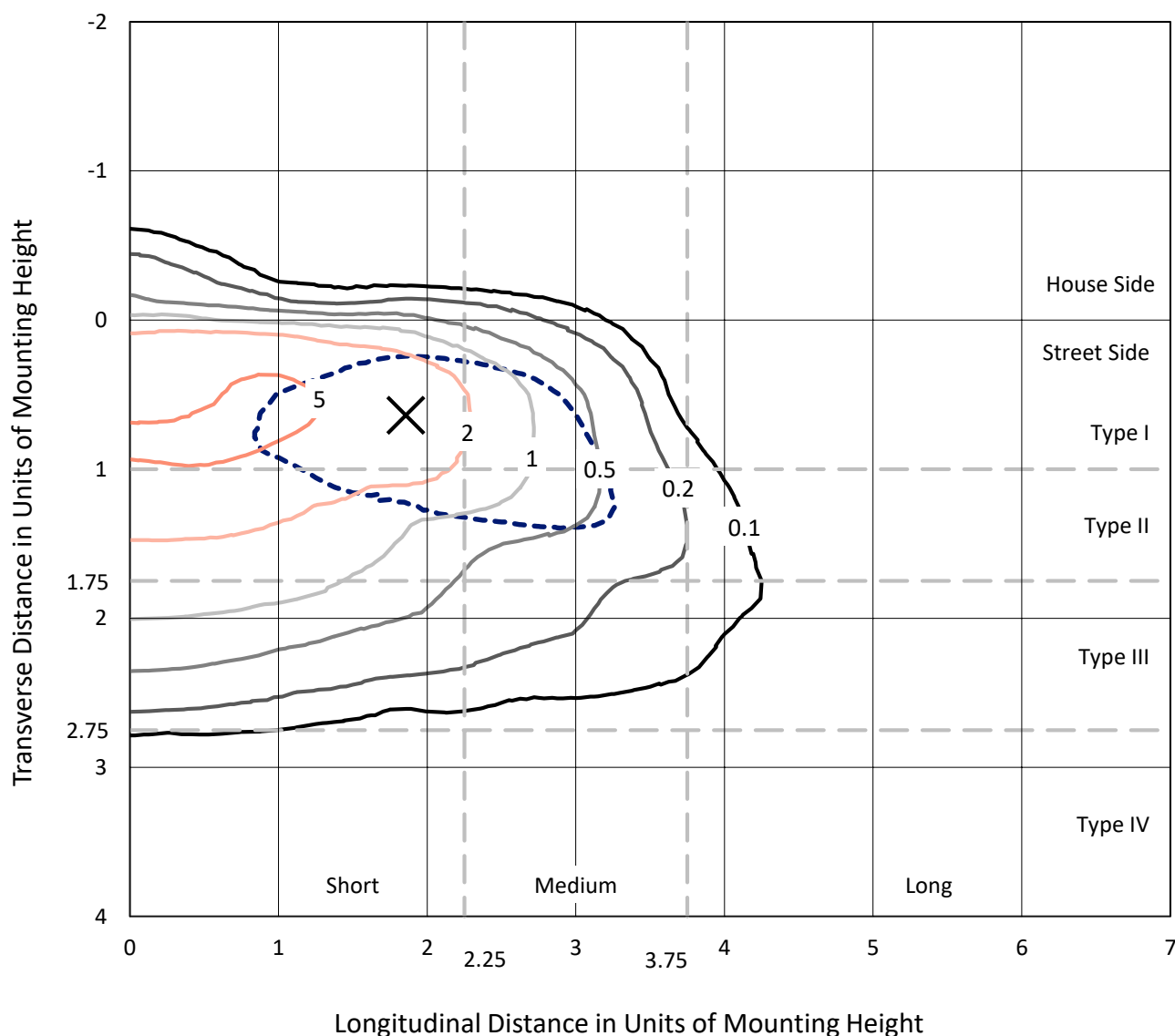
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

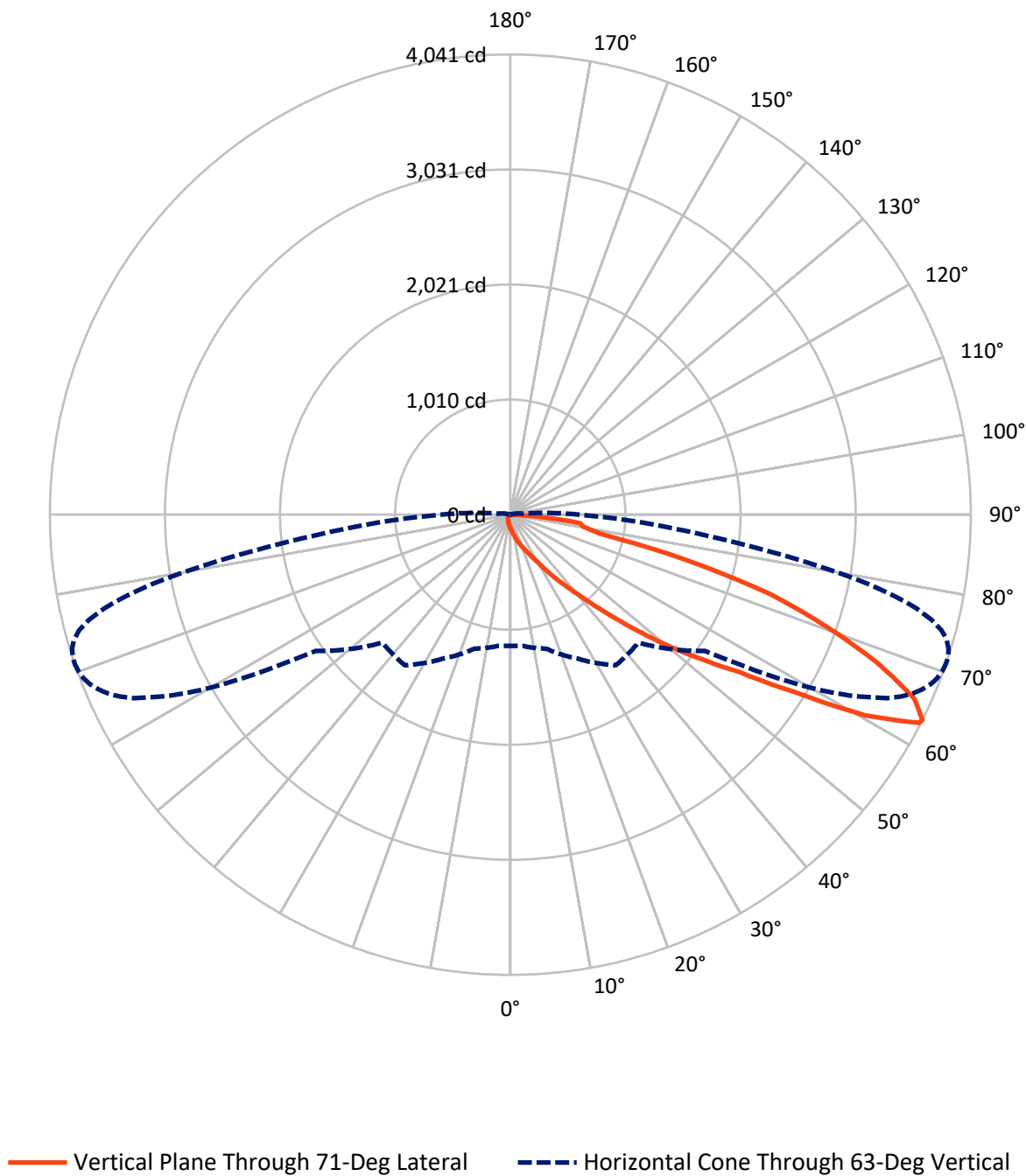


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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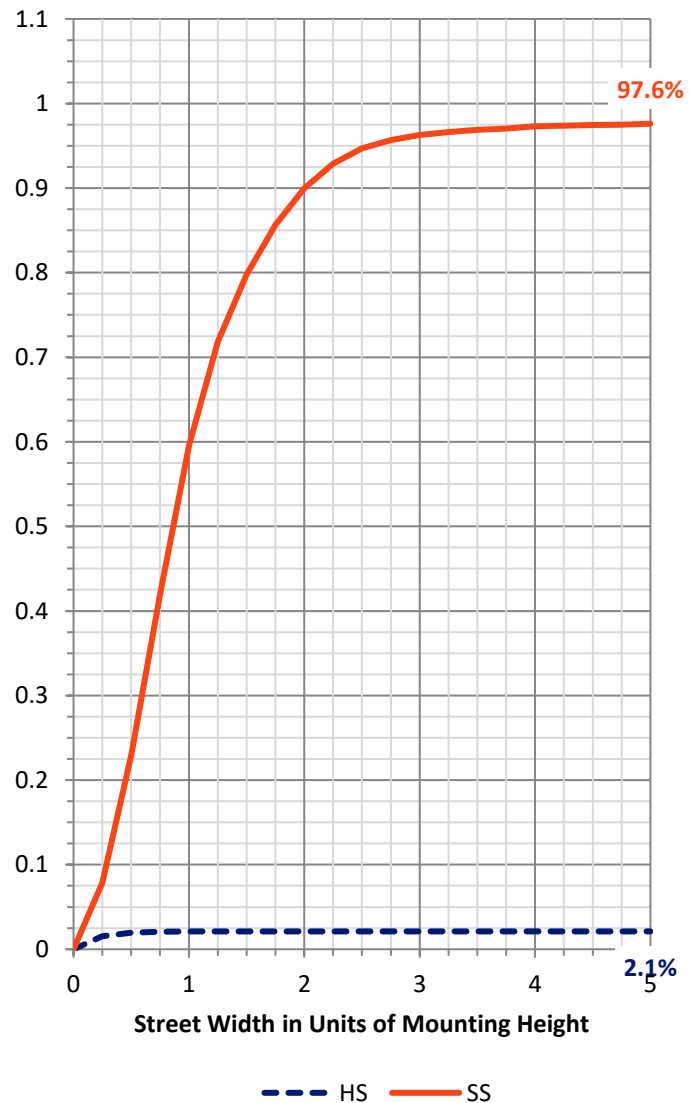
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 64.3     | 0.0    | 64.3   |
|                    | % Fixture | 2.1      | 0.0    | 2.1    |
| <b>Street Side</b> | Lumens    | 2963.1   | 0.0    | 2963.1 |
|                    | % Fixture | 97.9     | 0.0    | 97.9   |
| <b>Total</b>       | Lumens    | 3027.3   | 0.0    | 3027.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 12.8   | 0.4       |
| 10°-20°   | 49.8   | 1.6       |
| 20°-30°   | 101.1  | 3.3       |
| 30°-40°   | 247.0  | 8.2       |
| 40°-50°   | 552.4  | 18.2      |
| 50°-60°   | 776.8  | 25.7      |
| 60°-70°   | 913.4  | 30.2      |
| 70°-80°   | 329.8  | 10.9      |
| 80°-90°   | 44.1   | 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°    | 3027.3 | 100.0     |
| 0°-180°   | 3027.3 | 100.0     |

**Coefficient of Utilization**



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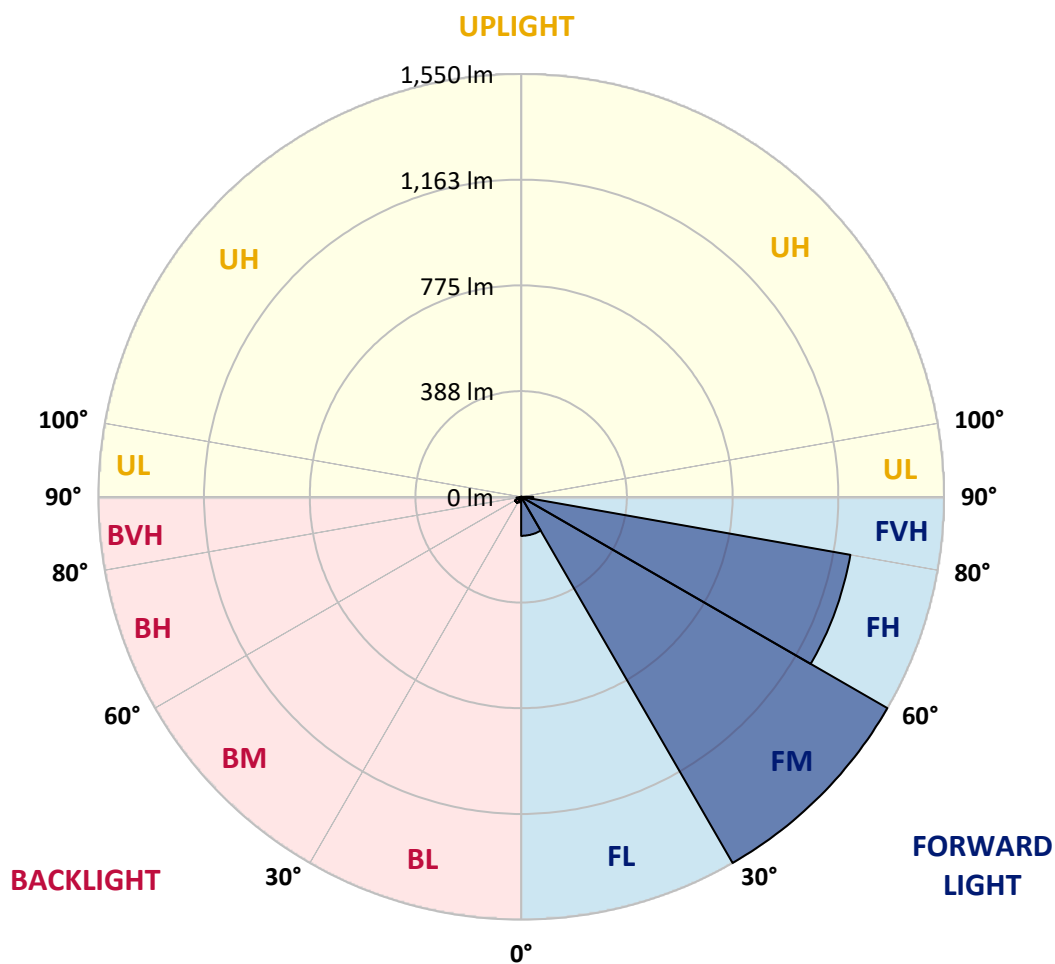
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 143.1  | 4.7       |                         |      |         |
| FM   | (30°-60°)   | 1550.3 | 51.2      |                         |      |         |
| FH   | (60°-80°)   | 1225.7 | 40.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 44.0   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 20.7   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 25.9   | 0.9       | B0/220                  |      |         |
| BH   | (60°-80°)   | 17.6   | 0.6       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.1    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  |
| 2.5°  | 151.9  | 153.6  | 152.4  | 149.7  | 146.4  | 142.0  | 138.1  | 138.1  | 137.6  | 136.0  | 136.5  |
| 5°    | 199.3  | 199.8  | 197.6  | 191.0  | 184.9  | 175.5  | 165.1  | 164.0  | 162.9  | 161.2  | 160.7  |
| 7.5°  | 245.5  | 247.7  | 245.5  | 238.3  | 226.2  | 211.9  | 195.3  | 193.7  | 190.5  | 190.5  | 188.2  |
| 10°   | 292.7  | 292.7  | 290.6  | 282.3  | 271.3  | 251.0  | 230.1  | 227.3  | 223.4  | 222.4  | 219.1  |
| 12.5° | 326.3  | 326.3  | 325.3  | 320.8  | 312.0  | 293.9  | 268.6  | 265.8  | 260.8  | 259.2  | 255.3  |
| 15°   | 339.6  | 339.6  | 340.1  | 343.9  | 344.6  | 336.3  | 309.8  | 307.7  | 302.7  | 298.2  | 296.7  |
| 17.5° | 347.8  | 347.3  | 347.3  | 352.7  | 362.7  | 368.2  | 351.1  | 348.9  | 343.4  | 341.2  | 335.8  |
| 20°   | 366.0  | 364.9  | 361.6  | 361.6  | 371.0  | 390.2  | 390.2  | 389.6  | 383.6  | 382.0  | 379.2  |
| 22.5° | 393.0  | 391.8  | 382.0  | 373.7  | 378.1  | 402.3  | 424.9  | 423.7  | 421.6  | 419.4  | 417.7  |
| 25°   | 437.0  | 433.2  | 416.1  | 391.8  | 388.0  | 413.9  | 451.3  | 454.0  | 455.6  | 455.6  | 456.8  |
| 27.5° | 503.5  | 498.7  | 468.4  | 423.2  | 406.1  | 432.5  | 480.4  | 486.0  | 490.9  | 492.0  | 497.0  |
| 30°   | 596.1  | 587.3  | 543.7  | 477.7  | 438.7  | 460.1  | 523.4  | 529.4  | 536.6  | 538.8  | 546.5  |
| 32.5° | 747.9  | 743.0  | 701.1  | 602.1  | 518.4  | 514.0  | 583.4  | 591.1  | 600.4  | 604.2  | 613.7  |
| 35°   | 979.1  | 980.2  | 946.0  | 856.9  | 741.3  | 680.8  | 690.7  | 697.3  | 700.6  | 712.1  | 717.1  |
| 37.5° | 1136.0 | 1138.7 | 1146.4 | 1111.2 | 1028.6 | 966.9  | 889.3  | 896.5  | 879.5  | 881.1  | 881.7  |
| 40°   | 1221.8 | 1230.6 | 1275.8 | 1309.8 | 1303.2 | 1267.5 | 1205.3 | 1209.1 | 1177.2 | 1170.1 | 1135.3 |
| 42.5° | 1279.0 | 1290.6 | 1362.7 | 1468.3 | 1522.3 | 1554.7 | 1540.4 | 1538.8 | 1514.0 | 1504.7 | 1475.4 |
| 45°   | 1314.8 | 1325.3 | 1416.1 | 1571.8 | 1696.2 | 1790.9 | 1829.9 | 1834.3 | 1813.4 | 1804.0 | 1779.8 |
| 47.5° | 1313.2 | 1325.3 | 1422.7 | 1610.4 | 1793.6 | 1945.0 | 2055.0 | 2060.5 | 2073.2 | 2064.9 | 2066.5 |
| 50°   | 1240.5 | 1252.0 | 1350.1 | 1544.9 | 1765.0 | 2015.3 | 2216.8 | 2234.4 | 2254.8 | 2268.5 | 2275.1 |
| 52.5° | 1152.4 | 1160.7 | 1247.7 | 1432.5 | 1642.8 | 1986.2 | 2312.5 | 2342.8 | 2373.2 | 2399.0 | 2417.1 |
| 55°   | 1120.0 | 1129.3 | 1197.5 | 1351.1 | 1544.9 | 1864.0 | 2357.1 | 2401.8 | 2444.7 | 2487.0 | 2521.7 |
| 57.5° | 1137.0 | 1145.8 | 1194.8 | 1312.5 | 1486.5 | 1735.2 | 2369.8 | 2439.2 | 2509.6 | 2578.3 | 2646.6 |
| 60°   | 1199.8 | 1209.1 | 1251.0 | 1348.4 | 1471.1 | 1660.9 | 2320.3 | 2435.3 | 2552.5 | 2672.5 | 2785.3 |
| 62.5° | 1175.0 | 1178.9 | 1240.5 | 1411.1 | 1581.1 | 1597.6 | 2140.3 | 2301.0 | 2479.9 | 2664.8 | 2846.9 |
| 63°   | 1151.3 | 1155.8 | 1218.4 | 1394.0 | 1614.7 | 1588.3 | 2084.8 | 2254.2 | 2443.0 | 2642.3 | 2840.3 |
| 65°   | 1044.0 | 1044.6 | 1092.4 | 1231.1 | 1577.3 | 1604.9 | 1837.1 | 1998.9 | 2215.8 | 2454.6 | 2705.0 |
| 67.5° | 779.3  | 775.4  | 821.7  | 927.4  | 1238.2 | 1605.4 | 1576.8 | 1667.6 | 1818.3 | 2030.3 | 2254.8 |
| 70°   | 276.3  | 270.3  | 345.1  | 491.5  | 771.6  | 1313.2 | 1354.9 | 1361.0 | 1402.8 | 1517.3 | 1658.2 |
| 72.5° | 89.7   | 91.4   | 110.1  | 180.0  | 355.5  | 883.8  | 1226.7 | 1208.0 | 1197.0 | 1196.5 | 1215.1 |
| 75°   | 35.8   | 36.4   | 44.0   | 79.8   | 159.6  | 426.0  | 1074.3 | 1084.8 | 1088.6 | 1094.1 | 1100.1 |
| 77.5° | 17.1   | 18.8   | 24.8   | 44.6   | 79.3   | 210.8  | 768.8  | 857.4  | 908.1  | 947.2  | 970.8  |
| 80°   | 6.0    | 7.2    | 13.8   | 27.6   | 36.9   | 96.9   | 405.1  | 488.7  | 563.0  | 658.8  | 741.3  |
| 82.5° | 0.0    | 0.0    | 2.8    | 19.3   | 20.4   | 39.1   | 166.2  | 194.8  | 222.9  | 288.9  | 371.0  |
| 85°   | 0.0    | 0.0    | 0.0    | 5.5    | 6.0    | 6.6    | 56.2   | 67.7   | 76.0   | 88.6   | 102.4  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 1.7    | 3.3    | 8.3    | 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):**

|       | 60°    | 61°    | 62°    | 64°    | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  |
| 2.5°  | 135.3  | 134.8  | 134.8  | 133.8  | 133.2  | 132.1  | 131.5  | 129.8  | 129.3  | 129.3  | 129.3  |
| 5°    | 160.1  | 157.9  | 156.9  | 154.1  | 152.4  | 151.9  | 149.1  | 148.1  | 146.4  | 146.9  | 144.1  |
| 7.5°  | 187.7  | 183.8  | 182.2  | 178.3  | 177.2  | 173.4  | 172.2  | 169.5  | 167.9  | 164.6  | 163.4  |
| 10°   | 217.9  | 213.0  | 210.3  | 204.1  | 202.5  | 199.8  | 196.5  | 193.2  | 190.5  | 187.2  | 185.5  |
| 12.5° | 252.6  | 248.2  | 246.0  | 237.7  | 233.9  | 230.1  | 225.6  | 221.2  | 216.8  | 214.1  | 210.3  |
| 15°   | 293.4  | 286.2  | 283.9  | 276.3  | 269.6  | 264.8  | 258.7  | 253.2  | 249.8  | 244.4  | 240.5  |
| 17.5° | 333.5  | 326.3  | 324.7  | 313.2  | 306.0  | 302.7  | 296.1  | 288.9  | 282.9  | 277.4  | 271.3  |
| 20°   | 373.7  | 368.7  | 364.4  | 353.4  | 345.6  | 340.1  | 331.3  | 324.1  | 319.2  | 311.5  | 303.8  |
| 22.5° | 413.9  | 408.9  | 405.6  | 394.1  | 386.9  | 379.2  | 371.5  | 363.7  | 356.6  | 347.3  | 338.4  |
| 25°   | 455.1  | 451.8  | 450.2  | 439.7  | 433.2  | 426.0  | 418.2  | 409.4  | 400.6  | 390.2  | 380.8  |
| 27.5° | 498.0  | 499.2  | 495.9  | 493.7  | 486.5  | 481.6  | 469.4  | 463.4  | 456.8  | 444.1  | 432.5  |
| 30°   | 552.5  | 555.9  | 554.7  | 556.4  | 552.0  | 548.7  | 539.4  | 531.6  | 523.9  | 511.8  | 498.7  |
| 32.5° | 621.3  | 625.7  | 628.0  | 634.0  | 631.8  | 630.7  | 628.0  | 616.9  | 611.4  | 590.6  | 585.0  |
| 35°   | 727.6  | 725.4  | 734.7  | 739.7  | 737.5  | 736.4  | 733.1  | 727.0  | 720.4  | 705.6  | 691.8  |
| 37.5° | 865.7  | 867.9  | 871.2  | 861.3  | 854.7  | 854.1  | 844.2  | 838.1  | 828.8  | 812.3  | 795.9  |
| 40°   | 1118.9 | 1105.1 | 1089.7 | 1047.9 | 1029.7 | 1019.3 | 990.1  | 981.9  | 965.9  | 943.3  | 926.2  |
| 42.5° | 1448.0 | 1434.2 | 1388.0 | 1318.1 | 1280.6 | 1228.9 | 1205.3 | 1176.1 | 1153.6 | 1116.7 | 1096.9 |
| 45°   | 1774.9 | 1735.2 | 1729.7 | 1648.3 | 1602.1 | 1533.8 | 1491.4 | 1442.5 | 1391.3 | 1342.9 | 1307.7 |
| 47.5° | 2050.6 | 2041.8 | 2014.8 | 1965.3 | 1922.4 | 1865.2 | 1810.7 | 1735.2 | 1682.4 | 1613.6 | 1550.4 |
| 50°   | 2271.3 | 2270.8 | 2260.8 | 2232.2 | 2196.5 | 2150.3 | 2102.4 | 2038.4 | 1978.5 | 1894.3 | 1826.6 |
| 52.5° | 2436.4 | 2445.2 | 2448.5 | 2439.7 | 2425.9 | 2385.2 | 2361.0 | 2307.7 | 2257.0 | 2185.4 | 2112.2 |
| 55°   | 2557.5 | 2589.9 | 2606.4 | 2625.2 | 2621.3 | 2607.0 | 2605.9 | 2571.2 | 2548.1 | 2491.4 | 2439.7 |
| 57.5° | 2707.2 | 2760.5 | 2811.7 | 2902.6 | 2905.8 | 2937.7 | 2954.3 | 2970.8 | 2975.2 | 2952.6 | 2935.5 |
| 60°   | 2897.6 | 3006.5 | 3103.4 | 3293.3 | 3342.8 | 3420.9 | 3471.6 | 3526.6 | 3573.5 | 3577.3 | 3576.2 |
| 62.5° | 3031.9 | 3199.7 | 3356.1 | 3637.8 | 3734.1 | 3824.4 | 3892.1 | 3945.5 | 3977.9 | 4011.0 | 4026.3 |
| 63°   | 3035.8 | 3219.6 | 3385.8 | 3676.4 | 3777.6 | 3863.4 | 3927.9 | 3977.4 | 4011.5 | 4031.3 | 4041.2 |
| 65°   | 2942.7 | 3165.6 | 3363.7 | 3653.3 | 3748.4 | 3834.8 | 3868.4 | 3900.8 | 3917.4 | 3925.1 | 3896.0 |
| 67.5° | 2494.2 | 2712.1 | 2943.3 | 3266.8 | 3348.3 | 3451.8 | 3479.3 | 3495.9 | 3503.5 | 3501.9 | 3477.1 |
| 70°   | 1865.2 | 2047.9 | 2304.9 | 2674.7 | 2782.6 | 2883.8 | 2946.5 | 2973.6 | 2982.4 | 2979.6 | 2942.7 |
| 72.5° | 1302.2 | 1409.4 | 1621.3 | 2033.0 | 2179.9 | 2309.8 | 2387.5 | 2427.6 | 2435.9 | 2419.4 | 2385.2 |
| 75°   | 1093.6 | 1099.1 | 1146.9 | 1372.0 | 1509.6 | 1648.3 | 1735.9 | 1761.1 | 1744.6 | 1694.5 | 1607.6 |
| 77.5° | 976.3  | 988.4  | 988.4  | 1022.0 | 1049.0 | 1087.5 | 1095.8 | 1034.1 | 962.6  | 870.1  | 795.2  |
| 80°   | 819.0  | 861.3  | 891.0  | 915.8  | 918.5  | 910.9  | 890.5  | 855.8  | 800.7  | 730.4  | 652.1  |
| 82.5° | 497.5  | 581.1  | 615.3  | 743.0  | 805.7  | 848.1  | 844.8  | 798.5  | 756.7  | 683.5  | 616.9  |
| 85°   | 125.5  | 135.3  | 146.9  | 191.0  | 214.1  | 261.5  | 291.1  | 304.9  | 309.8  | 284.6  | 257.5  |
| 87.5° | 12.1   | 8.3    | 13.8   | 10.5   | 14.8   | 11.0   | 14.8   | 13.8   | 17.1   | 18.1   | 19.8   |
| 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):**

|       | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  |
| 2.5°  | 128.2  | 127.7  | 127.2  | 126.6  | 126.0  | 125.5  | 124.4  | 124.4  | 123.3  | 122.7  | 122.2  |
| 5°    | 142.6  | 141.5  | 140.9  | 139.8  | 138.1  | 137.0  | 135.3  | 133.2  | 131.5  | 131.0  | 129.8  |
| 7.5°  | 160.7  | 157.9  | 156.9  | 155.2  | 153.0  | 149.7  | 147.5  | 145.8  | 143.1  | 141.5  | 138.1  |
| 10°   | 181.0  | 178.3  | 175.0  | 171.7  | 168.4  | 164.6  | 161.8  | 159.6  | 155.2  | 153.0  | 149.1  |
| 12.5° | 206.9  | 202.0  | 198.1  | 193.7  | 189.3  | 184.9  | 181.7  | 175.0  | 171.2  | 166.2  | 162.9  |
| 15°   | 233.4  | 228.9  | 224.6  | 219.1  | 212.4  | 205.3  | 202.0  | 196.0  | 191.0  | 183.3  | 178.9  |
| 17.5° | 265.3  | 257.0  | 250.4  | 243.8  | 237.7  | 231.2  | 224.6  | 215.2  | 208.1  | 201.5  | 192.6  |
| 20°   | 296.7  | 286.7  | 279.6  | 270.8  | 262.0  | 251.5  | 243.8  | 237.2  | 227.3  | 218.4  | 209.1  |
| 22.5° | 330.3  | 320.3  | 308.7  | 299.9  | 287.9  | 279.6  | 269.1  | 258.1  | 248.2  | 236.7  | 225.1  |
| 25°   | 371.0  | 360.5  | 347.3  | 335.8  | 322.0  | 310.4  | 297.7  | 285.1  | 273.0  | 259.8  | 244.9  |
| 27.5° | 421.0  | 410.1  | 395.8  | 382.0  | 363.7  | 349.4  | 337.4  | 320.3  | 304.9  | 288.4  | 271.3  |
| 30°   | 484.4  | 472.2  | 454.6  | 434.8  | 416.6  | 400.6  | 383.6  | 361.0  | 343.9  | 324.1  | 302.2  |
| 32.5° | 566.8  | 552.5  | 528.9  | 510.2  | 487.6  | 466.7  | 443.0  | 420.5  | 396.3  | 370.4  | 345.1  |
| 35°   | 670.9  | 657.6  | 630.2  | 602.6  | 577.8  | 553.1  | 523.4  | 497.5  | 463.4  | 432.0  | 399.6  |
| 37.5° | 778.8  | 755.1  | 729.7  | 700.0  | 669.2  | 639.5  | 603.2  | 567.5  | 528.3  | 494.2  | 453.5  |
| 40°   | 902.1  | 873.4  | 852.5  | 820.6  | 777.1  | 734.7  | 701.1  | 656.6  | 607.6  | 561.9  | 514.0  |
| 42.5° | 1071.0 | 1039.1 | 1001.7 | 953.2  | 921.9  | 872.3  | 828.8  | 776.0  | 711.6  | 660.4  | 602.6  |
| 45°   | 1266.3 | 1222.9 | 1186.5 | 1139.8 | 1101.8 | 1040.2 | 989.5  | 919.1  | 854.7  | 787.6  | 717.1  |
| 47.5° | 1489.2 | 1435.3 | 1382.5 | 1336.3 | 1275.8 | 1215.1 | 1150.8 | 1076.0 | 993.4  | 919.6  | 836.0  |
| 50°   | 1745.2 | 1668.7 | 1595.4 | 1536.1 | 1453.0 | 1383.0 | 1313.2 | 1228.9 | 1137.6 | 1052.8 | 957.6  |
| 52.5° | 2029.7 | 1941.0 | 1844.2 | 1752.8 | 1656.6 | 1566.8 | 1482.7 | 1385.8 | 1283.9 | 1180.5 | 1074.3 |
| 55°   | 2373.2 | 2306.5 | 2192.6 | 2076.5 | 1947.7 | 1827.7 | 1719.3 | 1599.3 | 1475.4 | 1339.6 | 1227.9 |
| 57.5° | 2910.8 | 2878.3 | 2783.1 | 2667.0 | 2499.2 | 2353.3 | 2169.4 | 2022.5 | 1843.1 | 1656.0 | 1511.8 |
| 60°   | 3639.5 | 3599.3 | 3545.9 | 3451.8 | 3318.7 | 3120.5 | 2917.9 | 2689.5 | 2416.6 | 2157.4 | 1911.4 |
| 62.5° | 4028.0 | 4013.7 | 3970.3 | 3905.3 | 3780.9 | 3624.6 | 3420.4 | 3169.4 | 2861.2 | 2546.4 | 2232.7 |
| 63°   | 4039.6 | 4021.5 | 3983.9 | 3917.9 | 3808.4 | 3657.1 | 3456.8 | 3213.0 | 2911.4 | 2590.5 | 2270.2 |
| 65°   | 3883.3 | 3876.2 | 3838.1 | 3766.0 | 3691.2 | 3575.6 | 3420.4 | 3210.8 | 2957.6 | 2654.3 | 2335.6 |
| 67.5° | 3444.0 | 3422.6 | 3364.2 | 3342.3 | 3289.9 | 3209.6 | 3091.3 | 2947.2 | 2766.0 | 2527.8 | 2252.5 |
| 70°   | 2913.0 | 2881.0 | 2807.9 | 2768.8 | 2705.0 | 2654.3 | 2582.3 | 2479.4 | 2367.6 | 2201.5 | 1996.2 |
| 72.5° | 2349.9 | 2283.9 | 2216.8 | 2115.0 | 2025.8 | 1935.5 | 1855.8 | 1783.1 | 1660.4 | 1593.3 | 1437.5 |
| 75°   | 1526.1 | 1406.1 | 1291.1 | 1137.0 | 998.3  | 875.6  | 756.2  | 695.6  | 569.6  | 518.4  | 445.2  |
| 77.5° | 724.2  | 657.1  | 566.8  | 497.0  | 407.8  | 333.0  | 271.9  | 204.1  | 160.1  | 125.5  | 95.8   |
| 80°   | 584.5  | 527.8  | 473.3  | 410.1  | 342.9  | 273.6  | 209.6  | 156.9  | 111.2  | 77.1   | 54.5   |
| 82.5° | 521.1  | 459.6  | 392.4  | 348.9  | 303.2  | 248.2  | 203.6  | 166.2  | 122.7  | 89.7   | 61.1   |
| 85°   | 202.5  | 170.6  | 131.5  | 107.4  | 83.6   | 68.8   | 62.2   | 42.9   | 33.6   | 26.4   | 20.4   |
| 87.5° | 17.6   | 14.3   | 11.6   | 7.7    | 8.3    | 4.4    | 5.0    | 3.3    | 2.8    | 2.8    | 2.2    |
| 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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CATALOG NUMBER: VXS-F02-LED-E1-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 83°    | 84°    | 85°    | 86°    | 87°    | 88°   | 89°   | 90°   | 95°   | 105°  | 115°  |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0°    | 116.2  | 116.2  | 116.2  | 116.2  | 116.2  | 116.2 | 116.2 | 116.2 | 116.2 | 116.2 | 116.2 |
| 2.5°  | 121.7  | 121.0  | 120.5  | 119.4  | 119.4  | 118.3 | 117.8 | 117.2 | 114.5 | 108.4 | 103.4 |
| 5°    | 127.7  | 126.6  | 125.5  | 123.8  | 122.7  | 121.0 | 120.0 | 118.3 | 112.2 | 100.7 | 90.8  |
| 7.5°  | 136.5  | 134.3  | 132.6  | 129.3  | 127.7  | 125.5 | 123.8 | 121.0 | 111.2 | 93.6  | 79.8  |
| 10°   | 146.9  | 143.1  | 140.3  | 136.5  | 133.2  | 130.5 | 127.7 | 123.8 | 110.1 | 85.8  | 69.8  |
| 12.5° | 159.6  | 155.2  | 149.7  | 145.3  | 140.9  | 137.0 | 133.2 | 128.2 | 108.4 | 79.3  | 62.2  |
| 15°   | 172.2  | 165.7  | 161.8  | 155.8  | 149.7  | 144.1 | 138.7 | 134.3 | 109.0 | 72.1  | 55.5  |
| 17.5° | 186.5  | 180.0  | 171.7  | 165.1  | 158.5  | 151.3 | 144.8 | 136.0 | 106.2 | 66.6  | 50.7  |
| 20°   | 200.3  | 191.0  | 183.3  | 175.0  | 165.7  | 156.9 | 148.6 | 140.9 | 104.0 | 61.1  | 46.2  |
| 22.5° | 215.2  | 204.1  | 194.3  | 183.8  | 172.2  | 162.4 | 152.4 | 142.6 | 100.2 | 56.2  | 42.4  |
| 25°   | 233.4  | 220.7  | 206.4  | 193.7  | 181.7  | 169.5 | 156.9 | 144.8 | 96.3  | 51.7  | 39.6  |
| 27.5° | 255.3  | 238.9  | 224.6  | 208.6  | 191.5  | 176.1 | 162.4 | 149.1 | 92.4  | 48.4  | 36.9  |
| 30°   | 283.4  | 264.1  | 243.8  | 223.4  | 205.3  | 187.7 | 168.4 | 151.9 | 88.6  | 45.1  | 34.1  |
| 32.5° | 320.8  | 296.7  | 271.9  | 248.2  | 224.0  | 201.5 | 181.0 | 159.6 | 86.4  | 42.4  | 31.4  |
| 35°   | 370.4  | 339.1  | 308.7  | 279.1  | 249.8  | 222.4 | 196.0 | 171.7 | 86.4  | 39.1  | 28.1  |
| 37.5° | 417.2  | 380.8  | 342.3  | 305.5  | 270.8  | 238.9 | 207.5 | 178.3 | 82.0  | 36.4  | 25.3  |
| 40°   | 467.8  | 424.4  | 379.2  | 335.8  | 293.9  | 254.3 | 218.4 | 184.9 | 78.1  | 33.1  | 22.6  |
| 42.5° | 545.4  | 490.4  | 431.5  | 380.8  | 330.8  | 281.8 | 237.2 | 197.6 | 73.2  | 29.7  | 19.8  |
| 45°   | 647.3  | 577.3  | 508.0  | 446.3  | 382.5  | 322.5 | 269.6 | 220.7 | 72.1  | 26.9  | 17.1  |
| 47.5° | 756.2  | 673.7  | 592.2  | 513.5  | 438.7  | 368.7 | 305.5 | 246.5 | 72.1  | 24.2  | 14.8  |
| 50°   | 864.6  | 761.1  | 674.2  | 582.8  | 498.7  | 416.1 | 340.6 | 273.6 | 72.6  | 22.0  | 12.1  |
| 52.5° | 962.6  | 851.9  | 754.5  | 648.9  | 555.9  | 460.1 | 378.1 | 299.9 | 71.5  | 19.3  | 9.9   |
| 55°   | 1098.5 | 968.6  | 855.8  | 739.2  | 630.2  | 522.3 | 429.2 | 339.6 | 72.1  | 17.1  | 8.3   |
| 57.5° | 1348.9 | 1196.5 | 1060.5 | 907.6  | 782.1  | 642.8 | 529.9 | 421.0 | 78.7  | 14.3  | 6.0   |
| 60°   | 1708.3 | 1510.2 | 1319.2 | 1132.6 | 973.1  | 807.4 | 660.9 | 532.7 | 92.4  | 11.6  | 4.4   |
| 62.5° | 1949.8 | 1690.7 | 1462.8 | 1257.0 | 1071.5 | 898.1 | 738.5 | 592.7 | 101.9 | 9.3   | 2.8   |
| 63°   | 1974.6 | 1706.6 | 1477.7 | 1265.3 | 1076.0 | 902.6 | 741.9 | 597.1 | 102.4 | 8.8   | 2.8   |
| 65°   | 2021.5 | 1734.2 | 1485.9 | 1266.9 | 1071.5 | 896.5 | 739.7 | 596.6 | 103.4 | 7.2   | 2.2   |
| 67.5° | 1968.1 | 1691.8 | 1438.0 | 1219.6 | 1033.1 | 860.7 | 712.1 | 574.6 | 102.9 | 5.0   | 1.7   |
| 70°   | 1760.0 | 1531.1 | 1308.2 | 1104.6 | 935.0  | 779.3 | 648.3 | 523.9 | 94.6  | 3.3   | 1.1   |
| 72.5° | 1292.2 | 1136.5 | 963.6  | 816.7  | 704.5  | 585.0 | 499.2 | 393.5 | 73.2  | 2.2   | 0.5   |
| 75°   | 383.0  | 348.9  | 293.4  | 258.7  | 228.4  | 188.8 | 167.9 | 131.0 | 37.4  | 1.1   | 0.0   |
| 77.5° | 76.5   | 69.3   | 62.2   | 56.7   | 53.4   | 45.7  | 43.5  | 35.8  | 15.4  | 0.5   | 0.0   |
| 80°   | 40.2   | 33.1   | 28.1   | 24.8   | 21.5   | 17.6  | 14.8  | 12.1  | 2.8   | 0.0   | 0.0   |
| 82.5° | 38.5   | 25.9   | 18.8   | 15.4   | 13.2   | 10.5  | 8.3   | 6.0   | 1.7   | 0.0   | 0.0   |
| 85°   | 14.3   | 11.0   | 8.3    | 6.6    | 5.5    | 5.0   | 3.8   | 3.3   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.2    | 1.7    | 1.7    | 1.1    | 1.1    | 0.5   | 0.5   | 0.5   | 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   |

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**CANDELA DISTRIBUTION (continued):**

|       | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 116.2 | 116.2 | 116.2 | 116.2 | 116.2 | 116.2 | 116.2 |
| 2.5°  | 98.5  | 94.1  | 91.9  | 89.1  | 89.1  | 88.6  | 89.7  |
| 5°    | 82.0  | 76.0  | 71.5  | 68.3  | 68.8  | 67.2  | 67.7  |
| 7.5°  | 69.3  | 63.3  | 59.5  | 57.2  | 56.7  | 56.2  | 56.2  |
| 10°   | 60.0  | 54.5  | 51.2  | 49.5  | 49.0  | 49.0  | 49.0  |
| 12.5° | 53.4  | 47.9  | 45.1  | 44.0  | 44.0  | 43.5  | 43.5  |
| 15°   | 47.9  | 43.5  | 40.7  | 39.6  | 39.6  | 39.1  | 39.6  |
| 17.5° | 43.5  | 39.1  | 36.9  | 35.8  | 35.8  | 35.2  | 35.2  |
| 20°   | 39.6  | 35.8  | 33.6  | 31.9  | 31.9  | 31.4  | 31.9  |
| 22.5° | 36.4  | 32.4  | 29.7  | 28.6  | 28.1  | 27.6  | 28.1  |
| 25°   | 33.1  | 29.1  | 26.4  | 24.8  | 24.2  | 24.2  | 23.6  |
| 27.5° | 30.3  | 26.4  | 23.1  | 21.5  | 20.9  | 20.9  | 20.4  |
| 30°   | 27.6  | 23.1  | 19.8  | 18.1  | 17.6  | 17.6  | 17.6  |
| 32.5° | 24.8  | 19.8  | 17.1  | 15.4  | 14.8  | 14.8  | 14.8  |
| 35°   | 22.0  | 17.1  | 14.3  | 12.6  | 12.1  | 12.1  | 12.1  |
| 37.5° | 18.8  | 14.3  | 11.0  | 9.9   | 9.3   | 8.8   | 8.8   |
| 40°   | 16.0  | 11.0  | 8.3   | 7.2   | 6.0   | 6.0   | 6.0   |
| 42.5° | 13.2  | 8.8   | 6.0   | 4.4   | 3.8   | 3.3   | 3.8   |
| 45°   | 11.0  | 6.6   | 3.8   | 2.2   | 1.7   | 1.7   | 1.7   |
| 47.5° | 8.8   | 4.4   | 1.7   | 0.5   | 0.5   | 0.5   | 0.5   |
| 50°   | 6.6   | 2.8   | 0.5   | 0.0   | 0.0   | 0.5   | 0.5   |
| 52.5° | 5.0   | 1.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 2.8   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 1.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 63°   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 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   |

(END OF REPORT)