

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: CORELITE

Report Number: P257115

Luminaire Tested: **HGL-S-UF-50L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-13)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-UF-50L930-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (504) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

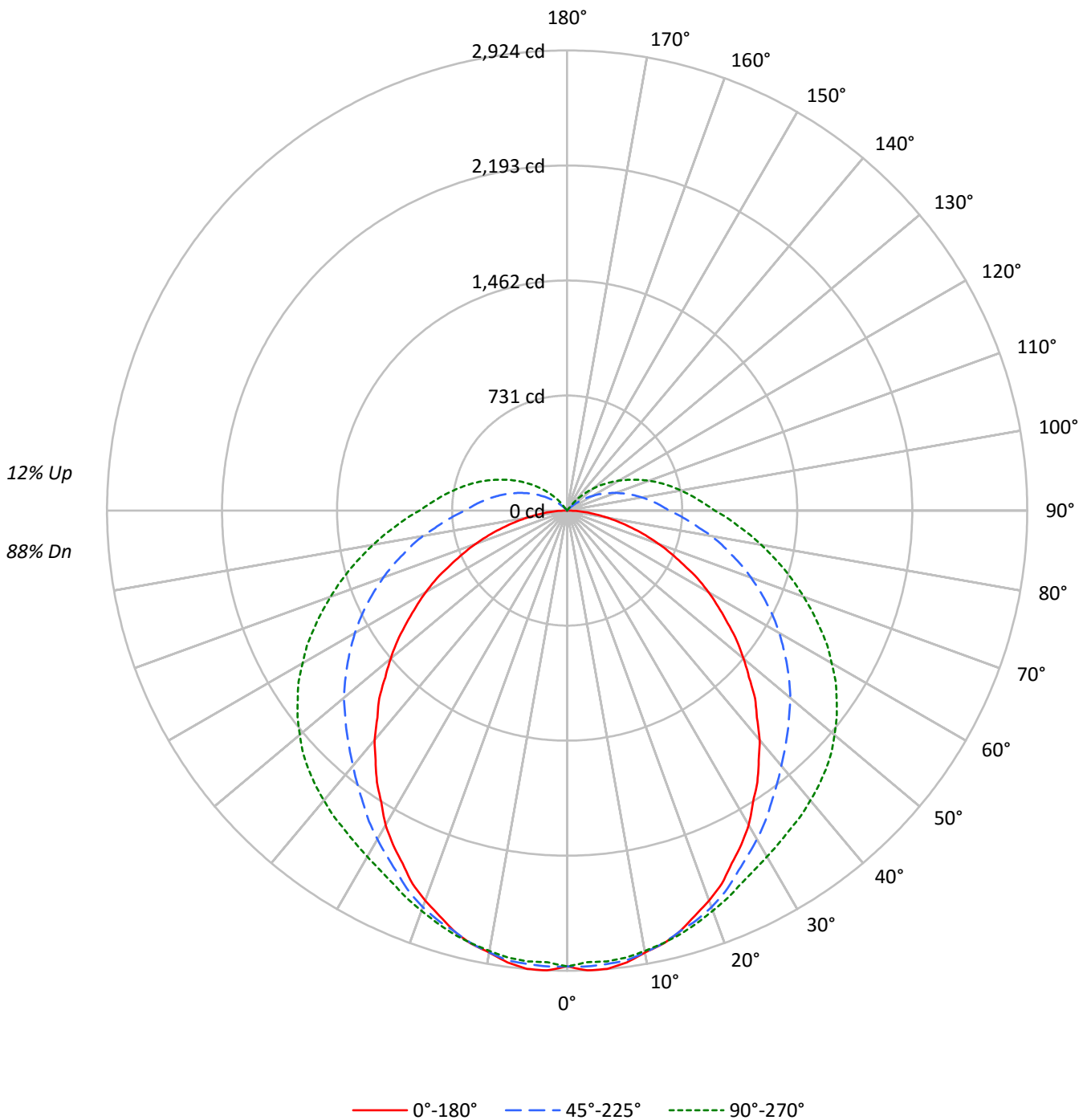
Lumens per Lamp: N/A
Luminaire Lumens: 11184.4 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 112
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



TEST NUMBER: P257115
CATALOG NUMBER: HGL-S-UF-50L930-UNV-12

Luminous Intensity Polar Plot





TEST NUMBER: P257115

CATALOG NUMBER: HGL-S-UF-50L930-UNV-12

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 91 | 91 | 91 | 88 | | | | |
| 1 | 103 | 97 | 92 | 87 | 99 | 94 | 89 | 85 | 87 | 84 | 80 | 81 | 78 | 75 | 76 | 73 | 71 | 68 | | | | |
| 2 | 93 | 84 | 76 | 69 | 89 | 81 | 73 | 67 | 75 | 69 | 64 | 70 | 65 | 61 | 65 | 61 | 58 | 55 | | | | |
| 3 | 84 | 73 | 64 | 56 | 81 | 70 | 62 | 55 | 65 | 58 | 53 | 61 | 55 | 50 | 57 | 52 | 48 | 45 | | | | |
| 4 | 77 | 64 | 54 | 47 | 73 | 62 | 53 | 46 | 58 | 50 | 44 | 54 | 48 | 42 | 50 | 45 | 41 | 38 | | | | |
| 5 | 70 | 57 | 47 | 40 | 67 | 55 | 46 | 39 | 51 | 44 | 38 | 48 | 42 | 36 | 45 | 39 | 35 | 32 | | | | |
| 6 | 65 | 51 | 42 | 35 | 62 | 49 | 41 | 34 | 46 | 39 | 33 | 43 | 37 | 32 | 41 | 35 | 31 | 28 | | | | |
| 7 | 60 | 46 | 37 | 31 | 58 | 45 | 36 | 30 | 42 | 34 | 29 | 39 | 33 | 28 | 37 | 31 | 27 | 25 | | | | |
| 8 | 56 | 42 | 33 | 27 | 54 | 41 | 32 | 27 | 38 | 31 | 26 | 36 | 30 | 25 | 34 | 28 | 24 | 22 | | | | |
| 9 | 52 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 35 | 28 | 23 | 33 | 27 | 22 | 31 | 26 | 22 | 20 | | | | |
| 10 | 49 | 35 | 27 | 22 | 47 | 34 | 27 | 22 | 33 | 26 | 21 | 31 | 25 | 20 | 29 | 24 | 20 | 18 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11337 | 11337 | 11337 |
| 5° | 11480 | 11049 | 10866 |
| 10° | 11315 | 10714 | 10453 |
| 15° | 11192 | 10313 | 10062 |
| 20° | 10949 | 9981 | 9671 |
| 25° | 10642 | 9542 | 9322 |
| 30° | 10379 | 9167 | 9093 |
| 35° | 10008 | 8796 | 8955 |
| 40° | 9654 | 8488 | 8895 |
| 45° | 9267 | 8268 | 8849 |
| 50° | 8822 | 8108 | 8761 |
| 55° | 8397 | 7931 | 8648 |
| 60° | 8006 | 7778 | 8502 |
| 65° | 7425 | 7624 | 8326 |
| 70° | 6923 | 7483 | 8136 |
| 75° | 6234 | 7346 | 7996 |
| 80° | 5502 | 7342 | 7891 |
| 85° | 4666 | 7371 | 7876 |



TEST NUMBER: P257115

CATALOG NUMBER: HGL-S-UF-50L930-UNV-12

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 274.3 | 2.5 |
| 10°-20° | 780.1 | 7.0 |
| 20°-30° | 1170.4 | 10.5 |
| 30°-40° | 1421.1 | 12.7 |
| 40°-50° | 1534.9 | 13.7 |
| 50°-60° | 1503.2 | 13.4 |
| 60°-70° | 1333.4 | 11.9 |
| 70°-80° | 1068.0 | 9.5 |
| 80°-90° | 774.1 | 6.9 |
| 90°-100° | 545.5 | 4.9 |
| 100°-110° | 380.5 | 3.4 |
| 110°-120° | 235.6 | 2.1 |
| 120°-130° | 119.8 | 1.1 |
| 130°-140° | 41.5 | 0.4 |
| 140°-150° | 2.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2224.8 | 19.9 |
| 0°-40° | 3645.9 | 32.6 |
| 0°-60° | 6684.0 | 59.8 |
| 0°-90° | 9859.4 | 88.2 |
| 90°-120° | 1161.7 | 10.4 |
| 90°-150° | 1325.0 | 11.8 |
| 90°-180° | 1325.0 | 11.8 |
| 0°-180° | 11184.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2896 | 2896 | 2896 | 2896 | 2896 | |
| 5° | 2924 | 2896 | 2893 | 2879 | 2876 | 277 |
| 15° | 2768 | 2748 | 2768 | 2792 | 2786 | 779 |
| 25° | 2474 | 2481 | 2547 | 2588 | 2616 | 1142 |
| 35° | 2107 | 2121 | 2263 | 2398 | 2471 | 1316 |
| 45° | 1689 | 1734 | 1983 | 2228 | 2325 | 1297 |
| 55° | 1246 | 1350 | 1706 | 1986 | 2090 | 1117 |
| 65° | 817 | 1010 | 1401 | 1671 | 1775 | 815 |
| 75° | 426 | 696 | 1080 | 1339 | 1426 | 455 |
| 85° | 114 | 426 | 779 | 1010 | 1086 | 123 |
| 90° | 4 | 311 | 647 | 862 | 938 | 9 |
| 95° | 0 | 246 | 564 | 765 | 830 | 0 |
| 105° | 0 | 132 | 405 | 585 | 644 | 0 |
| 115° | 0 | 42 | 256 | 412 | 464 | 0 |
| 125° | 0 | 0 | 125 | 253 | 298 | 0 |
| 135° | 0 | 0 | 21 | 111 | 145 | 2 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P257115

CATALOG NUMBER: HGL-S-UF-50L930-UNV-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 |
| 2.5° | 2924.0 | 2920.5 | 2910.1 | 2899.8 | 2896.3 | 2896.3 | 2892.8 | 2889.4 | 2889.4 | 2885.9 | 2899.8 |
| 5° | 2924.0 | 2920.5 | 2910.1 | 2896.3 | 2892.8 | 2896.3 | 2892.8 | 2885.9 | 2885.9 | 2882.5 | 2892.8 |
| 7.5° | 2896.3 | 2889.4 | 2882.5 | 2872.1 | 2868.6 | 2868.6 | 2865.2 | 2865.2 | 2865.2 | 2865.2 | 2882.5 |
| 10° | 2851.3 | 2847.9 | 2840.9 | 2830.6 | 2830.6 | 2827.1 | 2827.1 | 2830.6 | 2830.6 | 2834.0 | 2851.3 |
| 12.5° | 2820.2 | 2813.3 | 2802.9 | 2792.5 | 2789.0 | 2789.0 | 2785.6 | 2782.1 | 2785.6 | 2789.0 | 2816.7 |
| 15° | 2768.3 | 2764.8 | 2757.9 | 2747.5 | 2747.5 | 2747.5 | 2747.5 | 2744.0 | 2744.0 | 2747.5 | 2768.3 |
| 17.5° | 2699.1 | 2692.1 | 2688.7 | 2681.8 | 2685.2 | 2688.7 | 2692.1 | 2688.7 | 2695.6 | 2706.0 | 2730.2 |
| 20° | 2636.8 | 2629.9 | 2622.9 | 2612.6 | 2612.6 | 2616.0 | 2619.5 | 2619.5 | 2636.8 | 2650.6 | 2681.8 |
| 22.5° | 2567.6 | 2564.1 | 2557.2 | 2553.7 | 2553.7 | 2557.2 | 2557.2 | 2550.3 | 2560.6 | 2581.4 | 2622.9 |
| 25° | 2474.1 | 2470.7 | 2467.2 | 2467.2 | 2474.1 | 2481.1 | 2484.5 | 2488.0 | 2498.4 | 2512.2 | 2546.8 |
| 27.5° | 2394.6 | 2391.1 | 2384.2 | 2377.3 | 2384.2 | 2391.1 | 2394.6 | 2401.5 | 2422.2 | 2449.9 | 2477.6 |
| 30° | 2308.0 | 2304.6 | 2301.1 | 2301.1 | 2308.0 | 2311.5 | 2315.0 | 2311.5 | 2339.2 | 2380.7 | 2411.9 |
| 32.5° | 2197.3 | 2193.9 | 2197.3 | 2197.3 | 2214.6 | 2225.0 | 2231.9 | 2235.4 | 2259.6 | 2297.7 | 2342.6 |
| 35° | 2107.3 | 2107.3 | 2103.9 | 2110.8 | 2114.3 | 2121.2 | 2128.1 | 2145.4 | 2180.0 | 2218.1 | 2263.1 |
| 37.5° | 2000.1 | 2000.1 | 2000.1 | 2017.4 | 2031.2 | 2034.7 | 2038.1 | 2058.9 | 2103.9 | 2141.9 | 2190.4 |
| 40° | 1903.2 | 1903.2 | 1903.2 | 1910.1 | 1920.5 | 1930.9 | 1944.7 | 1968.9 | 2013.9 | 2069.3 | 2117.7 |
| 42.5° | 1785.5 | 1789.0 | 1795.9 | 1813.2 | 1827.1 | 1834.0 | 1844.4 | 1882.4 | 1930.9 | 1996.6 | 2048.5 |
| 45° | 1688.6 | 1685.2 | 1692.1 | 1705.9 | 1719.8 | 1733.6 | 1750.9 | 1792.5 | 1851.3 | 1923.9 | 1982.8 |
| 47.5° | 1567.5 | 1571.0 | 1577.9 | 1602.1 | 1619.4 | 1636.7 | 1657.5 | 1705.9 | 1775.2 | 1847.8 | 1913.6 |
| 50° | 1463.7 | 1467.2 | 1484.5 | 1498.3 | 1515.6 | 1536.4 | 1560.6 | 1622.9 | 1699.0 | 1771.7 | 1851.3 |
| 52.5° | 1359.9 | 1363.4 | 1377.2 | 1387.6 | 1415.3 | 1439.5 | 1470.6 | 1539.8 | 1619.4 | 1699.0 | 1778.6 |
| 55° | 1245.7 | 1252.6 | 1263.0 | 1287.2 | 1321.8 | 1349.5 | 1384.1 | 1460.3 | 1539.8 | 1626.4 | 1705.9 |
| 57.5° | 1138.5 | 1141.9 | 1159.2 | 1183.4 | 1225.0 | 1259.6 | 1301.1 | 1380.7 | 1467.2 | 1550.2 | 1629.8 |
| 60° | 1038.1 | 1045.0 | 1055.4 | 1086.5 | 1141.9 | 1176.5 | 1218.0 | 1301.1 | 1391.1 | 1474.1 | 1557.2 |
| 62.5° | 934.3 | 941.2 | 955.1 | 989.7 | 1055.4 | 1093.5 | 1138.5 | 1225.0 | 1314.9 | 1398.0 | 1481.0 |
| 65° | 816.6 | 823.6 | 844.3 | 889.3 | 968.9 | 1010.4 | 1055.4 | 1145.4 | 1231.9 | 1318.4 | 1401.4 |
| 67.5° | 716.3 | 719.7 | 747.4 | 795.9 | 878.9 | 930.8 | 979.3 | 1065.8 | 1152.3 | 1238.8 | 1321.8 |
| 70° | 619.4 | 626.3 | 647.1 | 712.8 | 802.8 | 844.3 | 896.2 | 989.7 | 1076.2 | 1162.7 | 1242.3 |
| 72.5° | 522.5 | 529.4 | 560.6 | 633.2 | 726.7 | 771.7 | 813.2 | 913.5 | 1000.0 | 1083.1 | 1162.7 |
| 75° | 425.6 | 436.0 | 477.5 | 560.6 | 650.5 | 695.5 | 740.5 | 830.5 | 923.9 | 1003.5 | 1079.6 |
| 77.5° | 339.1 | 349.5 | 401.4 | 487.9 | 577.9 | 622.9 | 667.8 | 754.4 | 840.9 | 927.4 | 1007.0 |
| 80° | 256.1 | 269.9 | 332.2 | 418.7 | 508.7 | 553.7 | 595.2 | 685.1 | 768.2 | 847.8 | 930.8 |
| 82.5° | 183.4 | 200.7 | 273.4 | 356.4 | 446.4 | 487.9 | 529.4 | 615.9 | 699.0 | 775.1 | 847.8 |
| 85° | 114.2 | 145.3 | 218.0 | 297.6 | 384.1 | 425.6 | 467.1 | 553.7 | 633.2 | 709.4 | 778.6 |
| 87.5° | 55.4 | 96.9 | 166.1 | 242.2 | 325.3 | 366.8 | 408.3 | 491.4 | 567.5 | 643.6 | 712.8 |
| 90° | 3.5 | 55.4 | 117.7 | 190.3 | 273.4 | 311.4 | 353.0 | 432.5 | 508.7 | 581.3 | 647.1 |
| 92.5° | 0.0 | 34.6 | 93.4 | 162.6 | 238.8 | 280.3 | 318.4 | 397.9 | 470.6 | 543.3 | 605.6 |
| 95° | 0.0 | 17.3 | 72.7 | 138.4 | 211.1 | 245.7 | 283.7 | 359.9 | 432.5 | 501.7 | 564.0 |
| 97.5° | 0.0 | 3.5 | 51.9 | 110.7 | 179.9 | 218.0 | 252.6 | 325.3 | 397.9 | 463.7 | 522.5 |
| 100° | 0.0 | 0.0 | 34.6 | 90.0 | 152.3 | 186.9 | 221.5 | 290.7 | 359.9 | 422.2 | 481.0 |
| 102.5° | 0.0 | 0.0 | 17.3 | 69.2 | 128.0 | 159.2 | 190.3 | 259.5 | 325.3 | 387.6 | 442.9 |
| 105° | 0.0 | 0.0 | 3.5 | 48.4 | 103.8 | 131.5 | 162.6 | 224.9 | 290.7 | 349.5 | 404.9 |
| 107.5° | 0.0 | 0.0 | 0.0 | 27.7 | 79.6 | 107.3 | 135.0 | 193.8 | 256.1 | 311.4 | 363.3 |
| 110° | 0.0 | 0.0 | 0.0 | 13.8 | 58.8 | 83.0 | 110.7 | 166.1 | 221.5 | 276.8 | 328.7 |



TEST NUMBER: P257115

CATALOG NUMBER: HGL-S-UF-50L930-UNV-12

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|-----|------|-------|------|-------|-------|-------|-------|
| 112.5° | 0.0 | 0.0 | 0.0 | 3.5 | 38.1 | 62.3 | 86.5 | 138.4 | 190.3 | 242.2 | 290.7 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | 41.5 | 62.3 | 110.7 | 159.2 | 211.1 | 256.1 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 6.9 | 24.2 | 41.5 | 86.5 | 131.5 | 176.5 | 221.5 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.4 | 24.2 | 62.3 | 103.8 | 145.3 | 186.9 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.9 | 38.1 | 76.1 | 117.7 | 155.7 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 | 51.9 | 90.0 | 124.6 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.9 | 31.1 | 62.3 | 93.4 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.8 | 38.1 | 65.7 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 20.8 | 41.5 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.9 | 20.8 |
| 137.5° | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.9 |
| 140° | 3.5 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P257115

CATALOG NUMBER: HGL-S-UF-50L930-UNV-12

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 | 2896.3 |
| 2.5° | 2910.1 | 2896.3 | 2896.3 | 2892.8 | 2889.4 | 2885.9 | 2879.0 | 2875.5 | 2868.6 | 2872.1 |
| 5° | 2903.2 | 2889.4 | 2889.4 | 2882.5 | 2879.0 | 2879.0 | 2875.5 | 2875.5 | 2872.1 | 2875.5 |
| 7.5° | 2892.8 | 2875.5 | 2875.5 | 2868.6 | 2865.2 | 2861.7 | 2861.7 | 2861.7 | 2861.7 | 2865.2 |
| 10° | 2865.2 | 2854.8 | 2854.8 | 2851.3 | 2847.9 | 2840.9 | 2837.5 | 2840.9 | 2837.5 | 2840.9 |
| 12.5° | 2827.1 | 2816.7 | 2823.6 | 2823.6 | 2823.6 | 2816.7 | 2813.3 | 2816.7 | 2813.3 | 2816.7 |
| 15° | 2778.6 | 2775.2 | 2785.6 | 2789.0 | 2792.5 | 2789.0 | 2785.6 | 2785.6 | 2785.6 | 2785.6 |
| 17.5° | 2730.2 | 2726.7 | 2740.6 | 2747.5 | 2747.5 | 2747.5 | 2747.5 | 2744.0 | 2744.0 | 2747.5 |
| 20° | 2688.7 | 2674.8 | 2681.8 | 2695.6 | 2699.1 | 2699.1 | 2702.5 | 2706.0 | 2706.0 | 2706.0 |
| 22.5° | 2629.9 | 2622.9 | 2626.4 | 2636.8 | 2643.7 | 2647.2 | 2657.5 | 2657.5 | 2661.0 | 2664.5 |
| 25° | 2560.6 | 2571.0 | 2574.5 | 2584.9 | 2588.3 | 2595.3 | 2609.1 | 2616.0 | 2616.0 | 2616.0 |
| 27.5° | 2488.0 | 2508.7 | 2522.6 | 2529.5 | 2536.4 | 2543.3 | 2560.6 | 2574.5 | 2574.5 | 2574.5 |
| 30° | 2418.8 | 2439.5 | 2467.2 | 2481.1 | 2488.0 | 2494.9 | 2519.1 | 2536.4 | 2539.9 | 2539.9 |
| 32.5° | 2346.1 | 2373.8 | 2415.3 | 2436.1 | 2439.5 | 2449.9 | 2481.1 | 2501.8 | 2505.3 | 2505.3 |
| 35° | 2283.8 | 2318.4 | 2363.4 | 2391.1 | 2398.0 | 2408.4 | 2443.0 | 2467.2 | 2470.7 | 2470.7 |
| 37.5° | 2228.5 | 2263.1 | 2311.5 | 2349.6 | 2356.5 | 2370.3 | 2404.9 | 2436.1 | 2439.5 | 2443.0 |
| 40° | 2166.2 | 2207.7 | 2256.1 | 2301.1 | 2315.0 | 2328.8 | 2366.9 | 2398.0 | 2404.9 | 2404.9 |
| 42.5° | 2103.9 | 2155.8 | 2204.2 | 2256.1 | 2273.4 | 2287.3 | 2328.8 | 2359.9 | 2366.9 | 2366.9 |
| 45° | 2038.1 | 2103.9 | 2152.3 | 2207.7 | 2228.5 | 2242.3 | 2280.4 | 2315.0 | 2325.3 | 2325.3 |
| 47.5° | 1979.3 | 2048.5 | 2097.0 | 2152.3 | 2173.1 | 2193.9 | 2228.5 | 2263.1 | 2273.4 | 2276.9 |
| 50° | 1913.6 | 1989.7 | 2038.1 | 2090.0 | 2117.7 | 2138.5 | 2173.1 | 2211.2 | 2221.5 | 2218.1 |
| 52.5° | 1847.8 | 1920.5 | 1972.4 | 2027.8 | 2055.4 | 2076.2 | 2107.3 | 2148.9 | 2159.2 | 2159.2 |
| 55° | 1778.6 | 1851.3 | 1906.6 | 1958.6 | 1986.2 | 2013.9 | 2045.1 | 2079.7 | 2093.5 | 2090.0 |
| 57.5° | 1709.4 | 1775.2 | 1834.0 | 1889.3 | 1913.6 | 1941.2 | 1972.4 | 2007.0 | 2017.4 | 2024.3 |
| 60° | 1636.7 | 1695.6 | 1761.3 | 1813.2 | 1837.4 | 1865.1 | 1896.3 | 1927.4 | 1944.7 | 1941.2 |
| 62.5° | 1557.2 | 1622.9 | 1685.2 | 1733.6 | 1757.9 | 1785.5 | 1816.7 | 1844.4 | 1858.2 | 1865.1 |
| 65° | 1477.6 | 1539.8 | 1598.7 | 1650.6 | 1671.3 | 1699.0 | 1733.6 | 1754.4 | 1771.7 | 1775.2 |
| 67.5° | 1394.5 | 1456.8 | 1515.6 | 1571.0 | 1591.8 | 1616.0 | 1647.1 | 1667.9 | 1685.2 | 1688.6 |
| 70° | 1311.5 | 1377.2 | 1436.0 | 1487.9 | 1508.7 | 1529.5 | 1560.6 | 1581.4 | 1598.7 | 1598.7 |
| 72.5° | 1231.9 | 1297.6 | 1353.0 | 1404.9 | 1425.7 | 1443.0 | 1474.1 | 1494.9 | 1508.7 | 1512.2 |
| 75° | 1152.3 | 1214.6 | 1269.9 | 1321.8 | 1339.2 | 1359.9 | 1387.6 | 1408.4 | 1422.2 | 1425.7 |
| 77.5° | 1072.7 | 1138.5 | 1190.4 | 1238.8 | 1256.1 | 1273.4 | 1304.5 | 1321.8 | 1335.7 | 1335.7 |
| 80° | 996.6 | 1058.9 | 1110.8 | 1155.8 | 1169.6 | 1190.4 | 1218.0 | 1235.3 | 1245.7 | 1252.6 |
| 82.5° | 923.9 | 982.7 | 1031.2 | 1072.7 | 1093.5 | 1107.3 | 1135.0 | 1152.3 | 1162.7 | 1169.6 |
| 85° | 844.3 | 906.6 | 955.1 | 996.6 | 1010.4 | 1031.2 | 1055.4 | 1072.7 | 1083.1 | 1086.5 |
| 87.5° | 771.7 | 827.0 | 875.5 | 923.9 | 941.2 | 955.1 | 979.3 | 996.6 | 1007.0 | 1013.9 |
| 90° | 709.4 | 761.3 | 806.3 | 844.3 | 861.6 | 878.9 | 906.6 | 923.9 | 934.3 | 937.8 |
| 92.5° | 664.4 | 716.3 | 757.8 | 795.9 | 813.2 | 827.0 | 851.2 | 868.5 | 878.9 | 882.4 |
| 95° | 622.9 | 671.3 | 712.8 | 750.9 | 764.7 | 778.6 | 802.8 | 816.6 | 823.6 | 830.5 |
| 97.5° | 577.9 | 629.8 | 667.8 | 702.4 | 719.7 | 730.1 | 754.4 | 768.2 | 778.6 | 782.0 |
| 100° | 536.4 | 584.8 | 622.9 | 660.9 | 674.8 | 685.1 | 709.4 | 723.2 | 730.1 | 733.6 |
| 102.5° | 494.8 | 543.3 | 581.3 | 615.9 | 629.8 | 640.2 | 660.9 | 674.8 | 685.1 | 688.6 |
| 105° | 453.3 | 498.3 | 536.4 | 571.0 | 584.8 | 595.2 | 615.9 | 629.8 | 640.2 | 643.6 |
| 107.5° | 415.2 | 456.8 | 494.8 | 526.0 | 539.8 | 550.2 | 571.0 | 584.8 | 595.2 | 598.6 |
| 110° | 377.2 | 415.2 | 453.3 | 484.4 | 498.3 | 508.7 | 529.4 | 539.8 | 550.2 | 553.7 |



TEST NUMBER: P257115

CATALOG NUMBER: HGL-S-UF-50L930-UNV-12

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 335.7 | 377.2 | 411.8 | 442.9 | 453.3 | 467.1 | 484.4 | 498.3 | 505.2 | 508.7 |
| 115° | 301.0 | 339.1 | 370.3 | 401.4 | 411.8 | 422.2 | 442.9 | 453.3 | 463.7 | 463.7 |
| 117.5° | 263.0 | 297.6 | 332.2 | 359.9 | 370.3 | 380.6 | 401.4 | 411.8 | 418.7 | 422.2 |
| 120° | 228.4 | 259.5 | 290.7 | 318.4 | 332.2 | 339.1 | 359.9 | 370.3 | 377.2 | 380.6 |
| 122.5° | 193.8 | 224.9 | 256.1 | 280.3 | 290.7 | 301.0 | 318.4 | 328.7 | 335.7 | 339.1 |
| 125° | 159.2 | 190.3 | 218.0 | 242.2 | 252.6 | 263.0 | 276.8 | 287.2 | 294.1 | 297.6 |
| 127.5° | 128.0 | 155.7 | 183.4 | 204.2 | 214.5 | 224.9 | 238.8 | 249.1 | 256.1 | 259.5 |
| 130° | 96.9 | 121.1 | 148.8 | 169.6 | 179.9 | 186.9 | 200.7 | 211.1 | 218.0 | 221.5 |
| 132.5° | 65.7 | 90.0 | 114.2 | 135.0 | 145.3 | 152.3 | 166.1 | 173.0 | 179.9 | 183.4 |
| 135° | 41.5 | 62.3 | 83.0 | 100.3 | 110.7 | 117.7 | 131.5 | 138.4 | 145.3 | 145.3 |
| 137.5° | 20.8 | 38.1 | 55.4 | 69.2 | 76.1 | 86.5 | 96.9 | 103.8 | 107.3 | 110.7 |
| 140° | 6.9 | 17.3 | 31.1 | 41.5 | 48.4 | 55.4 | 65.7 | 72.7 | 76.1 | 79.6 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)