

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P571725

Luminaire Tested: **RLS6159FS1EWHDM 4000K**

Issue Date: 9/21/2021

Test Information

Test Method: LM-41-14
Report Number: P571725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2105753A001)
Test Lab:
Issue Date: 9/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RLS6159FS1EWHDM 4000K
Description: 6 INCH SLOPE DM AT 9 Degrees TILT
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

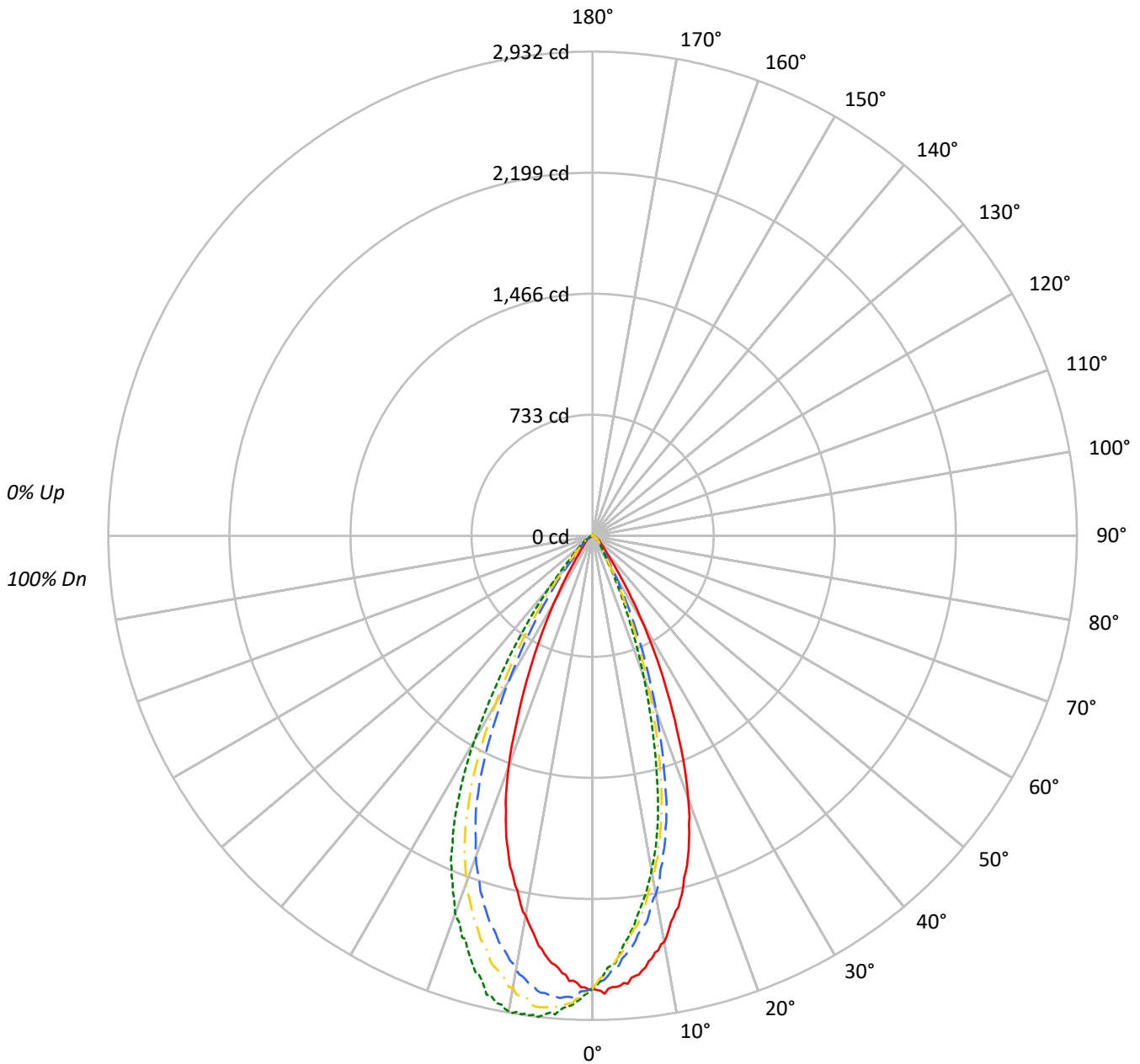
Lumens per Lamp: N/A
Luminaire Lumens: 1705.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 0.73 / 0.72
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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



TEST NUMBER: P571725
CATALOG NUMBER: RLS6159FS1EWHDM 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 114 | 111 | 108 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 94 | | | | | | | | | | | | | | | | | | | |
| 2 | 108 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 99 | 96 | 93 | 96 | 93 | 91 | 93 | 91 | 89 | 88 | | | | | | | | | | | | | | | | | | | |
| 3 | 103 | 97 | 92 | 88 | 101 | 96 | 91 | 88 | 93 | 89 | 86 | 91 | 87 | 85 | 88 | 86 | 84 | 82 | | | | | | | | | | | | | | | | | | | |
| 4 | 98 | 91 | 86 | 82 | 97 | 90 | 85 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 84 | 81 | 78 | 77 | | | | | | | | | | | | | | | | | | | |
| 5 | 94 | 86 | 80 | 76 | 92 | 85 | 80 | 76 | 83 | 79 | 75 | 81 | 78 | 75 | 80 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 6 | 90 | 81 | 75 | 71 | 88 | 80 | 75 | 71 | 79 | 74 | 71 | 77 | 73 | 70 | 76 | 72 | 70 | 68 | | | | | | | | | | | | | | | | | | | |
| 7 | 86 | 77 | 71 | 67 | 84 | 76 | 71 | 67 | 75 | 70 | 67 | 74 | 69 | 66 | 73 | 69 | 66 | 65 | | | | | | | | | | | | | | | | | | | |
| 8 | 82 | 73 | 67 | 63 | 81 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 62 | 61 | | | | | | | | | | | | | | | | | | | |
| 9 | 78 | 69 | 64 | 60 | 77 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 66 | 62 | 59 | 58 | | | | | | | | | | | | | | | | | | | |
| 10 | 75 | 66 | 61 | 57 | 74 | 66 | 60 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 63 | 59 | 56 | 55 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|--------|--------|--------|--------|
| 0° | 150388 | 150388 | 150388 | 150388 |
| 5° | 147870 | 134652 | 143589 | 159443 |
| 10° | 139059 | 114510 | 130063 | 162884 |
| 15° | 121613 | 85494 | 112118 | 155387 |
| 20° | 98668 | 52598 | 86714 | 141914 |
| 25° | 67419 | 26693 | 54783 | 121223 |
| 30° | 38506 | 12160 | 29112 | 90248 |
| 35° | 17982 | 7027 | 12876 | 55754 |
| 40° | 9353 | 5095 | 7378 | 28904 |
| 45° | 6396 | 4039 | 5535 | 13947 |
| 50° | 4878 | 3258 | 4477 | 8716 |
| 55° | 3919 | 2322 | 3727 | 6241 |
| 60° | 2598 | 1732 | 2577 | 4079 |
| 65° | 1985 | 1271 | 1907 | 2776 |
| 70° | 1427 | 962 | 1314 | 1971 |
| 75° | 1101 | 763 | 1080 | 1398 |
| 80° | 947 | 852 | 852 | 821 |
| 85° | 1069 | 1006 | 629 | 818 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 247.7 | 14.5 |
| 10°-20° | 573.2 | 33.6 |
| 20°-30° | 508.8 | 29.8 |
| 30°-40° | 231.1 | 13.6 |
| 40°-50° | 77.9 | 4.6 |
| 50°-60° | 37.7 | 2.2 |
| 60°-70° | 15.7 | 0.9 |
| 70°-80° | 5.7 | 0.3 |
| 80°-90° | 1.6 | 0.1 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.1 | 0.0 |
| 130°-140° | 0.3 | 0.0 |
| 140°-150° | 0.9 | 0.1 |
| 150°-160° | 1.8 | 0.1 |
| 160°-170° | 1.9 | 0.1 |
| 170°-180° | 0.8 | 0.0 |
| 0°-30° | 1329.7 | 78.0 |
| 0°-40° | 1560.8 | 91.5 |
| 0°-60° | 1676.4 | 98.3 |
| 0°-90° | 1699.4 | 99.7 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 1.3 | 0.1 |
| 90°-180° | 6.0 | 0.4 |
| 0°-180° | 1705.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2743 | 2743 | 2743 | 2743 | 2743 | |
| 5° | 2687 | 2447 | 2609 | 2897 | 2687 | 251 |
| 15° | 2143 | 1506 | 1976 | 2738 | 2143 | 592 |
| 25° | 1115 | 441 | 906 | 2004 | 1115 | 505 |
| 35° | 269 | 105 | 192 | 833 | 269 | 185 |
| 45° | 82 | 52 | 71 | 180 | 82 | 66 |
| 55° | 41 | 24 | 39 | 65 | 41 | 35 |
| 65° | 15 | 10 | 15 | 21 | 15 | 15 |
| 75° | 5 | 4 | 5 | 7 | 5 | 6 |
| 85° | 2 | 2 | 1 | 1 | 2 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |
| 95° | 0 | 0 | 0 | 0 | 0 | 0 |
| 105° | 0 | 0 | 0 | 0 | 0 | 0 |
| 115° | 0 | 0 | 0 | 0 | 0 | 0 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 2 | 2 | 1 | 1 | 2 | 1 |
| 155° | 5 | 5 | 4 | 3 | 5 | 2 |
| 165° | 7 | 7 | 7 | 6 | 7 | 2 |
| 175° | 8 | 9 | 8 | 8 | 8 | 1 |
| 180° | 8 | 8 | 8 | 8 | 8 | |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2743.3 | 2743.3 | 2743.3 | 2743.3 | 2743.3 | 2743.3 | 2743.3 | 2743.3 | 2743.3 | 2743.3 | 2743.3 |
| 0.5° | 2751.4 | 2729.7 | 2708.6 | 2731.2 | 2727.1 | 2722.1 | 2709.7 | 2724.1 | 2748.4 | 2751.6 | 2750.4 |
| 1° | 2756.2 | 2715.8 | 2700.6 | 2709.3 | 2696.0 | 2683.5 | 2676.9 | 2720.9 | 2734.4 | 2750.2 | 2757.9 |
| 1.5° | 2774.5 | 2708.3 | 2689.9 | 2681.9 | 2655.7 | 2658.5 | 2671.7 | 2699.3 | 2734.7 | 2761.7 | 2759.4 |
| 2° | 2744.9 | 2692.5 | 2667.3 | 2661.1 | 2617.0 | 2627.1 | 2636.1 | 2689.4 | 2708.9 | 2751.6 | 2789.3 |
| 2.5° | 2735.5 | 2689.8 | 2635.3 | 2635.7 | 2605.2 | 2606.7 | 2605.6 | 2675.1 | 2696.6 | 2741.0 | 2799.2 |
| 3° | 2735.9 | 2673.7 | 2627.8 | 2607.1 | 2592.7 | 2572.9 | 2586.3 | 2652.9 | 2700.1 | 2735.0 | 2794.7 |
| 3.5° | 2729.3 | 2649.7 | 2607.3 | 2572.3 | 2557.8 | 2535.2 | 2551.4 | 2619.4 | 2664.3 | 2731.8 | 2798.5 |
| 4° | 2714.5 | 2622.4 | 2566.7 | 2537.8 | 2510.9 | 2511.6 | 2532.8 | 2599.5 | 2655.1 | 2725.5 | 2806.4 |
| 4.5° | 2722.2 | 2622.1 | 2546.0 | 2523.5 | 2470.9 | 2465.4 | 2499.8 | 2590.5 | 2626.7 | 2699.5 | 2802.5 |
| 5° | 2687.1 | 2600.4 | 2521.7 | 2496.9 | 2446.9 | 2437.7 | 2457.7 | 2549.0 | 2609.3 | 2707.3 | 2804.6 |
| 5.5° | 2678.9 | 2588.4 | 2499.2 | 2454.8 | 2408.0 | 2401.4 | 2425.1 | 2527.9 | 2599.0 | 2675.3 | 2791.0 |
| 6° | 2672.0 | 2545.8 | 2468.5 | 2422.4 | 2379.7 | 2372.2 | 2392.8 | 2494.5 | 2575.0 | 2650.9 | 2784.1 |
| 6.5° | 2649.9 | 2515.8 | 2429.3 | 2395.9 | 2334.1 | 2342.6 | 2376.7 | 2462.5 | 2552.3 | 2654.7 | 2784.5 |
| 7° | 2633.6 | 2529.3 | 2404.5 | 2361.6 | 2295.1 | 2311.3 | 2341.8 | 2434.3 | 2522.3 | 2616.0 | 2773.6 |
| 7.5° | 2599.3 | 2480.9 | 2382.0 | 2328.3 | 2258.7 | 2269.3 | 2304.4 | 2398.2 | 2505.4 | 2607.6 | 2748.7 |
| 8° | 2583.1 | 2462.9 | 2358.7 | 2287.1 | 2221.1 | 2232.1 | 2267.4 | 2364.4 | 2466.9 | 2589.1 | 2743.5 |
| 8.5° | 2552.8 | 2421.5 | 2316.7 | 2239.6 | 2187.9 | 2177.7 | 2221.5 | 2329.3 | 2429.9 | 2555.0 | 2722.2 |
| 9° | 2542.7 | 2388.0 | 2266.0 | 2202.0 | 2139.9 | 2134.5 | 2179.1 | 2297.8 | 2400.0 | 2530.2 | 2702.6 |
| 9.5° | 2509.3 | 2358.6 | 2226.3 | 2155.3 | 2101.4 | 2098.0 | 2152.1 | 2267.6 | 2370.4 | 2506.6 | 2693.1 |
| 10° | 2498.1 | 2331.9 | 2207.0 | 2119.0 | 2057.1 | 2064.9 | 2100.1 | 2213.2 | 2336.5 | 2484.4 | 2667.1 |
| 10.5° | 2463.4 | 2305.2 | 2163.4 | 2076.4 | 2012.6 | 2013.7 | 2060.0 | 2179.3 | 2315.7 | 2458.7 | 2636.5 |
| 11° | 2424.6 | 2254.9 | 2123.2 | 2014.9 | 1966.9 | 1960.8 | 2018.2 | 2140.3 | 2276.4 | 2433.3 | 2621.1 |
| 11.5° | 2383.0 | 2222.8 | 2062.8 | 1971.5 | 1922.5 | 1917.3 | 1981.5 | 2106.7 | 2233.0 | 2410.1 | 2592.7 |
| 12° | 2361.0 | 2185.4 | 2026.2 | 1924.0 | 1865.6 | 1870.5 | 1922.0 | 2068.5 | 2195.9 | 2369.6 | 2565.2 |
| 12.5° | 2326.8 | 2148.7 | 1973.2 | 1873.3 | 1811.3 | 1824.8 | 1880.3 | 2019.2 | 2169.0 | 2350.3 | 2546.4 |
| 13° | 2308.6 | 2129.7 | 1932.6 | 1816.3 | 1757.2 | 1755.9 | 1826.7 | 1969.4 | 2128.6 | 2316.2 | 2524.2 |
| 13.5° | 2269.2 | 2067.6 | 1885.5 | 1763.8 | 1695.1 | 1694.8 | 1781.9 | 1922.2 | 2093.0 | 2281.6 | 2491.6 |
| 14° | 2235.8 | 2017.9 | 1825.0 | 1704.8 | 1632.9 | 1636.9 | 1721.3 | 1878.6 | 2062.6 | 2252.1 | 2460.6 |
| 14.5° | 2190.3 | 1964.0 | 1785.2 | 1631.8 | 1567.2 | 1580.3 | 1667.6 | 1831.4 | 2021.4 | 2220.6 | 2445.4 |
| 15° | 2142.8 | 1921.0 | 1727.5 | 1573.5 | 1506.4 | 1517.8 | 1608.2 | 1794.5 | 1975.5 | 2175.3 | 2415.4 |
| 15.5° | 2111.6 | 1882.6 | 1674.7 | 1508.2 | 1439.9 | 1449.6 | 1551.3 | 1737.7 | 1936.2 | 2142.0 | 2385.4 |
| 16° | 2076.4 | 1822.3 | 1601.7 | 1448.9 | 1373.8 | 1383.9 | 1491.6 | 1683.7 | 1898.6 | 2108.6 | 2351.7 |
| 16.5° | 2029.9 | 1758.5 | 1543.1 | 1373.8 | 1307.5 | 1321.1 | 1427.9 | 1627.2 | 1844.6 | 2075.2 | 2323.8 |
| 17° | 1989.6 | 1720.2 | 1479.1 | 1317.0 | 1245.6 | 1257.3 | 1360.3 | 1565.7 | 1796.8 | 2032.5 | 2286.6 |
| 17.5° | 1941.7 | 1674.9 | 1422.8 | 1250.3 | 1183.4 | 1195.7 | 1302.7 | 1503.4 | 1745.7 | 1997.3 | 2257.5 |
| 18° | 1892.8 | 1620.6 | 1359.5 | 1192.7 | 1123.2 | 1141.6 | 1242.4 | 1449.9 | 1704.4 | 1960.2 | 2214.5 |
| 18.5° | 1838.9 | 1552.4 | 1300.7 | 1132.8 | 1066.4 | 1078.9 | 1180.3 | 1391.7 | 1651.8 | 1913.1 | 2178.5 |
| 19° | 1801.7 | 1499.2 | 1237.1 | 1076.0 | 1012.3 | 1021.1 | 1123.2 | 1325.4 | 1594.2 | 1864.3 | 2143.8 |
| 19.5° | 1748.1 | 1433.4 | 1173.8 | 1022.0 | 957.6 | 963.3 | 1057.6 | 1259.6 | 1540.1 | 1819.5 | 2109.7 |
| 20° | 1691.3 | 1367.9 | 1124.8 | 965.6 | 901.6 | 906.6 | 1004.3 | 1200.9 | 1486.4 | 1771.5 | 2067.6 |
| 20.5° | 1637.2 | 1308.2 | 1065.3 | 909.8 | 847.5 | 851.6 | 949.6 | 1144.7 | 1425.0 | 1720.2 | 2024.4 |
| 21° | 1582.3 | 1256.3 | 1009.7 | 850.9 | 792.8 | 800.6 | 897.9 | 1085.5 | 1365.6 | 1674.2 | 1974.1 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|-------|-------|-------|--------|-------|--------|--------|--------|--------|
| 22.5° | 1403.7 | 1084.2 | 843.2 | 704.8 | 647.0 | 654.4 | 740.2 | 924.4 | 1179.8 | 1519.7 | 1850.9 |
| 23° | 1344.7 | 1028.4 | 794.4 | 655.4 | 601.6 | 609.7 | 692.9 | 869.0 | 1126.0 | 1462.9 | 1807.4 |
| 23.5° | 1280.4 | 977.2 | 746.1 | 608.7 | 558.8 | 566.8 | 645.0 | 817.3 | 1068.6 | 1402.6 | 1760.3 |
| 24° | 1223.8 | 926.7 | 697.4 | 562.7 | 517.2 | 527.1 | 598.3 | 768.9 | 1017.5 | 1344.9 | 1703.9 |
| 24.5° | 1168.4 | 873.7 | 656.3 | 519.4 | 477.3 | 486.0 | 554.8 | 716.2 | 960.5 | 1283.8 | 1651.8 |
| 25° | 1114.6 | 815.7 | 608.5 | 483.2 | 441.3 | 448.1 | 515.5 | 667.4 | 905.7 | 1225.6 | 1598.9 |
| 25.5° | 1057.6 | 766.6 | 567.4 | 446.2 | 406.7 | 413.6 | 475.9 | 623.3 | 855.9 | 1169.6 | 1541.6 |
| 26° | 1000.0 | 720.4 | 526.0 | 413.8 | 374.0 | 379.7 | 437.8 | 580.8 | 805.3 | 1110.8 | 1481.0 |
| 26.5° | 947.3 | 673.5 | 489.0 | 379.9 | 343.4 | 347.9 | 403.0 | 537.0 | 754.2 | 1055.9 | 1426.2 |
| 27° | 896.3 | 625.4 | 448.8 | 347.9 | 315.6 | 318.2 | 370.2 | 495.6 | 710.1 | 1001.1 | 1364.9 |
| 27.5° | 845.0 | 583.9 | 411.8 | 317.0 | 288.9 | 289.3 | 338.6 | 459.5 | 662.1 | 948.6 | 1306.3 |
| 28° | 794.5 | 543.3 | 376.0 | 290.4 | 265.5 | 263.1 | 307.5 | 421.4 | 620.5 | 895.8 | 1243.5 |
| 28.5° | 743.4 | 501.1 | 344.8 | 267.1 | 243.7 | 241.7 | 281.3 | 386.8 | 576.2 | 844.7 | 1185.9 |
| 29° | 695.5 | 464.4 | 316.8 | 247.0 | 224.6 | 222.1 | 257.0 | 357.6 | 536.3 | 796.1 | 1127.5 |
| 29.5° | 650.6 | 427.4 | 290.8 | 227.2 | 207.4 | 206.4 | 234.0 | 326.2 | 498.2 | 744.0 | 1069.7 |
| 30° | 608.3 | 392.9 | 266.6 | 209.5 | 192.1 | 190.6 | 214.9 | 297.1 | 459.9 | 700.3 | 1010.4 |
| 30.5° | 565.9 | 360.3 | 244.5 | 193.6 | 179.2 | 177.1 | 197.5 | 269.6 | 423.8 | 652.6 | 960.4 |
| 31° | 524.2 | 330.8 | 224.7 | 180.5 | 167.1 | 164.2 | 182.0 | 246.8 | 389.2 | 609.3 | 905.4 |
| 31.5° | 485.3 | 303.4 | 207.2 | 167.7 | 155.9 | 152.9 | 168.1 | 225.5 | 357.1 | 567.5 | 853.4 |
| 32° | 446.7 | 278.4 | 191.6 | 157.4 | 146.3 | 143.0 | 156.7 | 206.4 | 326.8 | 528.1 | 804.7 |
| 32.5° | 413.7 | 256.1 | 178.7 | 148.3 | 136.7 | 134.1 | 147.0 | 189.1 | 298.8 | 490.2 | 756.1 |
| 33° | 380.5 | 235.3 | 166.5 | 139.7 | 129.1 | 125.5 | 137.8 | 174.0 | 272.9 | 453.7 | 706.2 |
| 33.5° | 350.3 | 215.9 | 155.9 | 133.2 | 122.4 | 118.7 | 129.0 | 161.1 | 249.6 | 417.2 | 660.8 |
| 34° | 321.1 | 199.3 | 145.8 | 126.5 | 116.2 | 112.4 | 122.2 | 150.7 | 228.2 | 385.1 | 616.4 |
| 34.5° | 293.0 | 185.0 | 136.8 | 119.6 | 110.2 | 106.9 | 115.9 | 140.7 | 208.9 | 353.9 | 573.5 |
| 35° | 268.7 | 171.8 | 128.8 | 113.2 | 105.0 | 101.2 | 109.8 | 131.9 | 192.4 | 323.9 | 530.7 |
| 35.5° | 247.0 | 160.8 | 122.0 | 107.5 | 100.0 | 96.7 | 104.9 | 124.9 | 177.7 | 296.8 | 490.6 |
| 36° | 228.0 | 150.4 | 115.4 | 103.3 | 95.6 | 92.0 | 100.3 | 118.4 | 164.6 | 271.4 | 454.3 |
| 36.5° | 210.4 | 140.7 | 109.2 | 98.4 | 91.3 | 88.6 | 95.9 | 112.1 | 153.0 | 248.0 | 418.8 |
| 37° | 195.0 | 132.2 | 104.5 | 93.8 | 88.0 | 85.3 | 92.1 | 107.0 | 143.1 | 227.2 | 385.3 |
| 37.5° | 180.6 | 125.5 | 99.7 | 89.6 | 84.8 | 82.3 | 88.4 | 102.4 | 133.9 | 208.8 | 354.5 |
| 38° | 167.5 | 119.1 | 95.4 | 85.4 | 81.6 | 79.7 | 85.0 | 97.1 | 126.5 | 192.4 | 324.2 |
| 38.5° | 157.1 | 113.5 | 91.7 | 82.2 | 78.4 | 77.2 | 81.7 | 92.7 | 120.3 | 178.6 | 297.6 |
| 39° | 147.2 | 108.6 | 88.4 | 79.9 | 75.8 | 75.0 | 79.0 | 89.4 | 114.3 | 166.2 | 272.2 |
| 39.5° | 138.1 | 103.9 | 85.1 | 77.6 | 73.4 | 72.6 | 76.4 | 85.9 | 108.3 | 155.3 | 249.3 |
| 40° | 130.7 | 99.4 | 81.9 | 75.1 | 71.2 | 70.5 | 73.9 | 82.4 | 103.1 | 145.5 | 228.2 |
| 40.5° | 124.1 | 95.4 | 79.4 | 72.7 | 69.1 | 68.2 | 71.1 | 79.1 | 98.2 | 137.2 | 209.7 |
| 41° | 117.6 | 91.4 | 76.8 | 70.4 | 67.0 | 66.1 | 68.5 | 76.6 | 93.7 | 129.4 | 193.0 |
| 41.5° | 112.1 | 87.6 | 74.2 | 68.1 | 65.0 | 64.0 | 66.2 | 74.0 | 90.0 | 122.9 | 179.4 |
| 42° | 107.4 | 83.7 | 71.6 | 66.0 | 62.9 | 62.3 | 64.1 | 71.6 | 86.7 | 116.7 | 166.8 |
| 42.5° | 103.1 | 80.4 | 69.1 | 64.1 | 60.7 | 60.3 | 62.4 | 69.5 | 83.7 | 110.9 | 157.1 |
| 43° | 98.2 | 77.2 | 66.5 | 62.2 | 58.5 | 58.6 | 60.5 | 67.8 | 80.8 | 105.4 | 147.8 |
| 43.5° | 93.7 | 73.9 | 64.2 | 60.3 | 56.4 | 57.2 | 58.6 | 66.1 | 78.2 | 100.5 | 138.9 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|------|-------|------|-------|------|--------|------|--------|------|--------|-------|
| 45° | 82.5 | 67.0 | 58.7 | 55.1 | 52.1 | 53.3 | 53.6 | 61.3 | 71.4 | 88.4 | 116.9 |
| 45.5° | 79.2 | 64.9 | 57.2 | 53.6 | 51.0 | 52.0 | 52.2 | 59.5 | 69.3 | 85.2 | 110.7 |
| 46° | 76.0 | 63.1 | 56.0 | 52.0 | 49.7 | 50.5 | 50.7 | 58.0 | 67.4 | 81.9 | 105.1 |
| 46.5° | 73.0 | 61.1 | 54.3 | 50.7 | 48.6 | 49.0 | 49.2 | 56.4 | 65.3 | 79.1 | 99.9 |
| 47° | 70.3 | 59.2 | 53.0 | 49.2 | 47.4 | 47.4 | 48.0 | 54.7 | 63.2 | 76.3 | 95.1 |
| 47.5° | 67.7 | 57.1 | 51.4 | 47.5 | 46.3 | 46.1 | 46.6 | 53.1 | 61.2 | 73.8 | 91.1 |
| 48° | 65.6 | 55.4 | 50.0 | 45.9 | 45.0 | 44.7 | 45.3 | 51.8 | 59.1 | 71.4 | 87.7 |
| 48.5° | 63.5 | 53.7 | 48.5 | 44.3 | 43.2 | 43.3 | 44.1 | 50.0 | 57.3 | 69.3 | 84.5 |
| 49° | 61.4 | 51.8 | 47.2 | 42.9 | 41.4 | 41.9 | 42.8 | 48.4 | 55.5 | 67.0 | 81.2 |
| 49.5° | 59.3 | 50.0 | 46.0 | 41.3 | 39.8 | 40.7 | 41.6 | 47.1 | 54.1 | 64.9 | 78.8 |
| 50° | 57.2 | 48.3 | 44.7 | 40.0 | 38.2 | 39.6 | 40.5 | 45.5 | 52.5 | 62.7 | 76.1 |
| 50.5° | 55.5 | 46.6 | 43.5 | 38.8 | 36.9 | 38.6 | 39.2 | 43.7 | 51.1 | 60.6 | 73.7 |
| 51° | 53.5 | 45.1 | 42.2 | 37.6 | 35.6 | 37.4 | 37.9 | 42.4 | 49.8 | 58.6 | 71.7 |
| 51.5° | 51.8 | 43.5 | 41.1 | 36.3 | 34.3 | 36.2 | 36.7 | 41.1 | 48.3 | 56.8 | 69.5 |
| 52° | 50.2 | 42.3 | 39.6 | 35.1 | 32.9 | 35.1 | 35.4 | 39.9 | 47.0 | 55.0 | 66.6 |
| 52.5° | 48.7 | 40.9 | 37.9 | 33.7 | 31.7 | 33.9 | 34.1 | 38.6 | 45.8 | 53.0 | 64.2 |
| 53° | 47.3 | 39.5 | 36.1 | 32.2 | 30.2 | 32.6 | 33.0 | 37.4 | 44.5 | 51.4 | 61.9 |
| 53.5° | 45.9 | 37.9 | 33.8 | 30.4 | 29.0 | 31.3 | 31.8 | 36.2 | 43.2 | 49.9 | 59.7 |
| 54° | 44.6 | 36.1 | 31.4 | 28.7 | 27.5 | 29.7 | 30.6 | 35.3 | 41.8 | 48.5 | 57.7 |
| 54.5° | 43.0 | 34.5 | 29.4 | 26.9 | 25.7 | 27.3 | 29.4 | 34.3 | 40.5 | 46.8 | 56.0 |
| 55° | 41.0 | 32.5 | 27.6 | 25.3 | 24.3 | 25.4 | 28.1 | 33.2 | 39.0 | 45.4 | 54.4 |
| 55.5° | 39.1 | 30.0 | 26.0 | 24.3 | 22.8 | 24.1 | 26.5 | 31.4 | 37.4 | 43.7 | 52.7 |
| 56° | 35.9 | 28.1 | 25.0 | 23.4 | 21.7 | 22.9 | 25.0 | 29.5 | 35.6 | 41.8 | 51.3 |
| 56.5° | 33.0 | 26.8 | 24.2 | 22.8 | 21.0 | 22.1 | 23.6 | 27.8 | 34.0 | 39.9 | 49.5 |
| 57° | 30.8 | 25.6 | 23.3 | 21.8 | 20.2 | 21.3 | 22.6 | 25.9 | 31.9 | 38.0 | 48.1 |
| 57.5° | 29.1 | 24.7 | 22.7 | 20.8 | 19.3 | 20.4 | 21.8 | 24.6 | 30.0 | 35.8 | 45.9 |
| 58° | 27.9 | 23.7 | 21.8 | 20.0 | 18.4 | 19.5 | 21.2 | 23.7 | 28.3 | 33.3 | 42.7 |
| 58.5° | 26.8 | 22.8 | 21.0 | 19.1 | 17.6 | 18.5 | 20.2 | 22.9 | 26.9 | 31.2 | 39.9 |
| 59° | 25.7 | 22.3 | 20.2 | 18.4 | 17.1 | 17.6 | 19.4 | 22.0 | 25.5 | 29.8 | 36.7 |
| 59.5° | 24.6 | 21.6 | 19.4 | 17.5 | 16.3 | 17.0 | 18.5 | 21.4 | 24.6 | 28.1 | 34.5 |
| 60° | 23.7 | 20.8 | 18.5 | 16.9 | 15.8 | 16.2 | 17.8 | 20.6 | 23.5 | 26.9 | 32.7 |
| 60.5° | 22.8 | 20.0 | 17.6 | 16.2 | 15.0 | 15.5 | 17.2 | 19.7 | 22.6 | 25.8 | 31.0 |
| 61° | 21.9 | 19.2 | 16.8 | 15.4 | 14.4 | 14.9 | 16.3 | 18.8 | 21.9 | 24.8 | 29.5 |
| 61.5° | 20.9 | 18.4 | 16.1 | 14.7 | 13.8 | 14.2 | 15.6 | 17.8 | 21.2 | 23.8 | 28.2 |
| 62° | 20.1 | 17.5 | 15.3 | 14.1 | 13.0 | 13.5 | 15.0 | 17.2 | 20.4 | 22.7 | 26.8 |
| 62.5° | 19.2 | 16.7 | 14.6 | 13.4 | 12.3 | 12.9 | 14.1 | 16.2 | 19.4 | 21.8 | 25.4 |
| 63° | 18.4 | 15.9 | 13.9 | 12.8 | 11.8 | 12.1 | 13.4 | 15.4 | 18.4 | 20.8 | 24.0 |
| 63.5° | 17.7 | 15.1 | 13.1 | 12.2 | 11.1 | 11.5 | 12.8 | 14.6 | 17.5 | 19.8 | 22.7 |
| 64° | 16.9 | 14.3 | 12.5 | 11.6 | 10.8 | 10.9 | 12.0 | 13.8 | 16.6 | 18.8 | 21.6 |
| 64.5° | 16.1 | 13.6 | 11.9 | 11.1 | 10.1 | 10.4 | 11.3 | 13.1 | 15.7 | 18.1 | 20.5 |
| 65° | 15.3 | 12.8 | 11.3 | 10.7 | 9.8 | 9.8 | 10.8 | 12.3 | 14.7 | 17.4 | 19.4 |
| 65.5° | 14.3 | 12.2 | 10.8 | 10.2 | 9.2 | 9.4 | 10.2 | 11.6 | 13.9 | 16.3 | 18.5 |
| 66° | 13.5 | 11.6 | 10.4 | 9.8 | 8.8 | 9.0 | 9.8 | 11.0 | 13.1 | 15.4 | 17.5 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|------|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 67.5° | 11.4 | 10.0 | 9.1 | 8.7 | 7.7 | 7.9 | 8.7 | 9.4 | 10.9 | 12.9 | 15.0 |
| 68° | 10.9 | 9.6 | 8.7 | 8.4 | 7.3 | 7.7 | 8.2 | 9.0 | 10.2 | 12.1 | 14.1 |
| 68.5° | 10.3 | 9.1 | 8.4 | 8.1 | 6.9 | 7.2 | 7.8 | 8.7 | 9.8 | 11.3 | 13.3 |
| 69° | 9.8 | 8.7 | 8.1 | 7.8 | 6.6 | 6.9 | 7.5 | 8.1 | 9.2 | 10.8 | 12.5 |
| 69.5° | 9.3 | 8.4 | 7.7 | 7.4 | 6.4 | 6.8 | 7.1 | 7.7 | 8.8 | 10.1 | 11.7 |
| 70° | 8.9 | 8.0 | 7.5 | 7.1 | 6.0 | 6.2 | 6.8 | 7.4 | 8.2 | 9.5 | 10.9 |
| 70.5° | 8.6 | 7.7 | 7.0 | 6.8 | 5.7 | 5.9 | 6.5 | 7.0 | 7.9 | 9.0 | 10.2 |
| 71° | 8.1 | 7.4 | 6.8 | 6.5 | 5.4 | 5.8 | 6.1 | 6.7 | 7.6 | 8.6 | 9.4 |
| 71.5° | 7.7 | 7.0 | 6.4 | 6.2 | 5.1 | 5.5 | 5.7 | 6.3 | 7.1 | 8.0 | 9.1 |
| 72° | 7.4 | 6.7 | 6.1 | 5.9 | 5.1 | 5.1 | 5.6 | 5.9 | 6.8 | 7.8 | 8.6 |
| 72.5° | 7.0 | 6.3 | 5.8 | 5.6 | 5.0 | 5.1 | 5.1 | 5.7 | 6.4 | 7.2 | 8.0 |
| 73° | 6.6 | 6.0 | 5.5 | 5.4 | 5.0 | 5.1 | 4.9 | 5.3 | 6.0 | 6.8 | 7.6 |
| 73.5° | 6.2 | 5.7 | 5.3 | 5.2 | 4.3 | 5.0 | 4.9 | 5.0 | 5.7 | 6.4 | 7.0 |
| 74° | 5.8 | 5.3 | 5.0 | 4.9 | 3.9 | 4.6 | 4.9 | 5.0 | 5.3 | 5.9 | 6.7 |
| 74.5° | 5.5 | 5.0 | 4.6 | 4.7 | 3.8 | 4.0 | 4.0 | 4.9 | 5.1 | 5.6 | 6.0 |
| 75° | 5.2 | 4.7 | 4.5 | 4.5 | 3.6 | 3.8 | 3.8 | 4.1 | 5.1 | 5.1 | 5.7 |
| 75.5° | 4.8 | 4.5 | 4.3 | 4.4 | 3.7 | 3.6 | 3.7 | 3.9 | 4.8 | 4.9 | 5.2 |
| 76° | 4.5 | 4.2 | 4.1 | 4.5 | 3.7 | 3.6 | 3.7 | 3.6 | 4.0 | 4.8 | 5.1 |
| 76.5° | 4.3 | 4.0 | 4.0 | 4.4 | 3.6 | 3.6 | 3.6 | 3.6 | 3.8 | 3.9 | 5.0 |
| 77° | 3.9 | 3.8 | 3.8 | 4.2 | 3.6 | 3.6 | 3.6 | 3.4 | 3.6 | 3.8 | 4.0 |
| 77.5° | 3.8 | 3.7 | 3.8 | 4.2 | 3.6 | 3.6 | 3.5 | 3.3 | 3.2 | 3.4 | 3.8 |
| 78° | 3.5 | 3.6 | 3.8 | 4.1 | 3.1 | 3.5 | 3.3 | 3.2 | 3.0 | 3.0 | 3.3 |
| 78.5° | 3.3 | 3.6 | 3.8 | 4.0 | 3.1 | 3.2 | 3.1 | 3.0 | 2.8 | 2.8 | 3.0 |
| 79° | 3.2 | 3.4 | 3.6 | 3.9 | 2.9 | 3.1 | 3.1 | 3.0 | 2.8 | 2.6 | 2.6 |
| 79.5° | 3.2 | 3.4 | 3.6 | 3.7 | 2.9 | 2.9 | 3.0 | 2.8 | 2.8 | 2.6 | 2.5 |
| 80° | 3.0 | 3.2 | 3.4 | 3.6 | 2.7 | 2.9 | 2.8 | 2.8 | 2.7 | 2.6 | 2.1 |
| 80.5° | 3.0 | 3.2 | 3.4 | 3.6 | 2.7 | 2.8 | 2.7 | 2.8 | 2.7 | 2.2 | 1.9 |
| 81° | 2.8 | 3.1 | 3.2 | 3.4 | 2.7 | 2.7 | 2.7 | 2.8 | 2.7 | 2.0 | 1.9 |
| 81.5° | 2.7 | 3.0 | 3.2 | 3.3 | 2.6 | 2.7 | 2.7 | 2.8 | 2.3 | 1.9 | 1.9 |
| 82° | 2.6 | 2.8 | 3.0 | 3.2 | 2.7 | 2.7 | 2.7 | 2.5 | 2.0 | 1.8 | 1.7 |
| 82.5° | 2.4 | 2.6 | 2.9 | 3.1 | 2.6 | 2.6 | 2.4 | 2.0 | 1.8 | 1.7 | 1.6 |
| 83° | 2.2 | 2.6 | 2.8 | 2.9 | 2.3 | 2.2 | 2.1 | 1.9 | 1.7 | 1.6 | 1.5 |
| 83.5° | 2.2 | 2.4 | 2.6 | 2.7 | 2.0 | 2.0 | 1.9 | 1.8 | 1.7 | 1.6 | 1.5 |
| 84° | 2.0 | 2.2 | 2.5 | 2.6 | 1.9 | 1.9 | 1.8 | 1.6 | 1.6 | 1.3 | 1.1 |
| 84.5° | 1.9 | 2.1 | 2.3 | 2.5 | 1.7 | 1.8 | 1.6 | 1.6 | 1.5 | 1.1 | 0.9 |
| 85° | 1.7 | 2.0 | 2.2 | 2.3 | 1.6 | 1.6 | 1.6 | 1.3 | 1.0 | 0.9 | 0.7 |
| 85.5° | 1.6 | 1.8 | 2.0 | 2.2 | 1.6 | 1.6 | 1.6 | 1.1 | 0.9 | 0.7 | 0.6 |
| 86° | 1.4 | 1.6 | 1.8 | 2.0 | 1.6 | 1.4 | 1.1 | 0.9 | 0.7 | 0.7 | 0.7 |
| 86.5° | 1.2 | 1.4 | 1.7 | 1.9 | 1.3 | 1.2 | 1.0 | 0.9 | 0.7 | 0.6 | 0.4 |
| 87° | 1.1 | 1.4 | 1.5 | 1.7 | 1.0 | 1.0 | 0.8 | 0.8 | 0.6 | 0.4 | 0.3 |
| 87.5° | 0.9 | 1.2 | 1.4 | 1.5 | 0.8 | 0.8 | 0.7 | 0.7 | 0.5 | 0.1 | 0.0 |
| 88° | 0.7 | 1.0 | 1.3 | 1.3 | 0.7 | 0.7 | 0.6 | 0.6 | 0.2 | 0.0 | 0.0 |
| 88.5° | 0.7 | 0.9 | 1.1 | 1.2 | 0.6 | 0.6 | 0.6 | 0.4 | 0.1 | 0.0 | 0.0 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90° | 0.1 | 0.3 | 0.5 | 0.7 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90.5° | 0.1 | 0.3 | 0.3 | 0.5 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 91° | 0.1 | 0.1 | 0.2 | 0.3 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 91.5° | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92° | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 103° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 103.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 104° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 104.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 106° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 106.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 108° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 108.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 109° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 109.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 111° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 113° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 113.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 114° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 114.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 |
| 115.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 116° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 116.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 |
| 117° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 118° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 118.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 119° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 119.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 120.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 121° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 121.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 122° | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| 123° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| 123.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 124° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 124.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 125.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 126° | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 126.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 127° | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 128° | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 |
| 128.5° | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 129° | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.3 | 0.1 | 0.2 | 0.1 | 0.1 |
| 129.5° | 0.0 | 0.0 | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 |
| 130° | 0.0 | 0.0 | 0.3 | 0.5 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 |
| 130.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 |
| 131° | 0.0 | 0.1 | 0.5 | 0.6 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 |
| 131.5° | 0.0 | 0.1 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 |
| 132° | 0.0 | 0.3 | 0.6 | 0.7 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 |
| 132.5° | 0.0 | 0.5 | 0.7 | 0.7 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 0.1 |
| 133° | 0.1 | 0.5 | 0.7 | 0.7 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 |
| 133.5° | 0.1 | 0.6 | 0.9 | 0.7 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 135° | 0.1 | 0.8 | 0.8 | 0.8 | 0.5 | 0.5 | 0.5 | 0.4 | 0.3 | 0.2 | 0.2 |
| 135.5° | 0.1 | 0.8 | 0.8 | 0.9 | 0.6 | 0.6 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 |
| 136° | 0.3 | 0.7 | 0.8 | 0.9 | 0.7 | 0.6 | 0.5 | 0.5 | 0.4 | 0.3 | 0.2 |
| 136.5° | 0.4 | 0.7 | 0.8 | 1.0 | 0.7 | 0.6 | 0.5 | 0.5 | 0.4 | 0.3 | 0.2 |
| 137° | 0.4 | 0.7 | 0.9 | 1.2 | 0.7 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 |
| 137.5° | 0.5 | 0.7 | 0.9 | 1.6 | 0.7 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 |
| 138° | 0.7 | 0.7 | 0.9 | 1.5 | 0.8 | 0.8 | 0.7 | 0.6 | 0.5 | 0.3 | 0.2 |
| 138.5° | 0.7 | 0.7 | 0.9 | 1.6 | 0.8 | 0.9 | 0.6 | 0.7 | 0.5 | 0.3 | 0.3 |
| 139° | 0.8 | 0.8 | 1.1 | 1.5 | 0.9 | 0.8 | 0.7 | 0.7 | 0.5 | 0.4 | 0.3 |
| 139.5° | 0.8 | 0.8 | 1.2 | 1.7 | 1.0 | 1.0 | 0.8 | 0.7 | 0.6 | 0.3 | 0.3 |
| 140° | 0.7 | 0.9 | 1.5 | 1.8 | 1.0 | 1.0 | 0.8 | 0.7 | 0.6 | 0.4 | 0.3 |
| 140.5° | 0.7 | 0.9 | 1.6 | 1.9 | 1.0 | 1.1 | 0.8 | 0.7 | 0.5 | 0.4 | 0.4 |
| 141° | 0.8 | 1.0 | 1.6 | 2.1 | 1.2 | 1.2 | 0.9 | 0.9 | 0.7 | 0.5 | 0.3 |
| 141.5° | 0.7 | 1.2 | 1.6 | 2.2 | 1.2 | 1.2 | 0.9 | 0.8 | 0.7 | 0.5 | 0.4 |
| 142° | 0.7 | 1.5 | 1.7 | 2.7 | 1.2 | 1.4 | 1.0 | 0.9 | 0.8 | 0.5 | 0.4 |
| 142.5° | 0.9 | 1.5 | 1.8 | 2.7 | 1.4 | 1.4 | 1.2 | 1.0 | 0.8 | 0.5 | 0.3 |
| 143° | 1.0 | 1.6 | 1.9 | 2.7 | 1.4 | 1.5 | 1.2 | 1.1 | 0.9 | 0.5 | 0.5 |
| 143.5° | 1.1 | 1.6 | 2.0 | 2.7 | 1.6 | 1.6 | 1.3 | 1.1 | 0.9 | 0.7 | 0.5 |
| 144° | 1.4 | 1.7 | 2.2 | 2.9 | 1.7 | 1.7 | 1.4 | 1.3 | 0.9 | 0.7 | 0.5 |
| 144.5° | 1.6 | 1.8 | 2.6 | 2.9 | 1.8 | 1.8 | 1.5 | 1.3 | 1.0 | 0.8 | 0.5 |
| 145° | 1.6 | 1.9 | 2.7 | 3.1 | 2.0 | 1.8 | 1.6 | 1.4 | 1.2 | 0.7 | 0.6 |
| 145.5° | 1.6 | 2.1 | 2.8 | 3.3 | 2.0 | 2.0 | 1.6 | 1.5 | 1.2 | 0.9 | 0.6 |
| 146° | 1.7 | 2.5 | 2.7 | 3.7 | 2.1 | 2.1 | 1.7 | 1.6 | 1.3 | 0.9 | 0.7 |
| 146.5° | 1.8 | 2.7 | 2.8 | 3.8 | 2.3 | 2.2 | 1.8 | 1.6 | 1.4 | 0.9 | 0.7 |
| 147° | 1.8 | 2.6 | 2.9 | 3.8 | 2.4 | 2.3 | 1.9 | 1.8 | 1.5 | 1.1 | 0.8 |
| 147.5° | 2.1 | 2.6 | 3.0 | 3.9 | 2.5 | 2.5 | 2.0 | 1.9 | 1.6 | 1.2 | 0.9 |
| 148° | 2.3 | 2.8 | 3.2 | 4.0 | 2.6 | 2.6 | 2.1 | 2.0 | 1.6 | 1.3 | 0.9 |
| 148.5° | 2.7 | 2.9 | 3.6 | 4.2 | 2.8 | 2.7 | 2.3 | 2.0 | 1.8 | 1.3 | 1.0 |
| 149° | 2.8 | 3.1 | 3.8 | 4.7 | 2.9 | 2.9 | 2.3 | 2.2 | 1.9 | 1.4 | 1.1 |
| 149.5° | 2.8 | 3.4 | 3.8 | 5.1 | 3.1 | 3.0 | 2.5 | 2.4 | 2.0 | 1.5 | 1.1 |
| 150° | 2.8 | 3.6 | 3.8 | 5.1 | 3.3 | 3.2 | 2.5 | 2.5 | 2.2 | 1.6 | 1.3 |
| 150.5° | 2.9 | 3.7 | 4.0 | 5.1 | 3.3 | 3.2 | 2.7 | 2.6 | 2.2 | 1.7 | 1.3 |
| 151° | 3.0 | 3.8 | 4.1 | 5.1 | 3.5 | 3.4 | 2.7 | 2.8 | 2.4 | 1.8 | 1.4 |
| 151.5° | 3.2 | 3.9 | 4.4 | 5.2 | 3.6 | 3.5 | 2.9 | 3.0 | 2.6 | 1.9 | 1.5 |
| 152° | 3.5 | 4.1 | 5.0 | 5.1 | 3.7 | 3.6 | 3.0 | 3.2 | 2.8 | 2.1 | 1.6 |
| 152.5° | 3.7 | 4.9 | 5.0 | 5.3 | 3.9 | 3.8 | 3.1 | 3.2 | 2.9 | 2.2 | 1.7 |
| 153° | 3.7 | 5.0 | 5.0 | 5.4 | 4.0 | 3.9 | 3.3 | 3.4 | 3.0 | 2.3 | 1.8 |
| 153.5° | 3.8 | 5.0 | 5.0 | 5.8 | 4.2 | 4.1 | 3.3 | 3.6 | 3.2 | 2.5 | 1.9 |
| 154° | 4.0 | 5.0 | 5.0 | 5.9 | 4.4 | 4.2 | 3.5 | 3.7 | 3.4 | 2.7 | 2.0 |
| 154.5° | 4.2 | 5.0 | 5.2 | 5.9 | 4.6 | 4.3 | 3.7 | 3.9 | 3.6 | 2.8 | 2.2 |
| 155° | 4.9 | 5.2 | 5.4 | 5.9 | 4.6 | 4.5 | 3.8 | 4.1 | 3.7 | 2.9 | 2.3 |
| 155.5° | 4.9 | 5.3 | 5.8 | 6.0 | 4.8 | 4.5 | 3.9 | 4.2 | 3.9 | 3.1 | 2.4 |
| 156° | 4.9 | 5.6 | 5.8 | 6.0 | 5.0 | 4.7 | 4.1 | 4.3 | 4.0 | 3.2 | 2.6 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 157.5° | 5.1 | 5.9 | 6.1 | 6.4 | 5.3 | 5.2 | 4.6 | 4.9 | 4.5 | 3.7 | 3.1 |
| 158° | 5.2 | 6.1 | 6.3 | 6.9 | 5.5 | 5.4 | 4.7 | 5.0 | 4.7 | 3.9 | 3.2 |
| 158.5° | 5.4 | 6.3 | 6.6 | 7.0 | 5.7 | 5.5 | 4.8 | 5.3 | 4.9 | 4.1 | 3.4 |
| 159° | 5.8 | 6.4 | 6.8 | 7.1 | 5.9 | 5.6 | 5.2 | 5.4 | 5.1 | 4.3 | 3.6 |
| 159.5° | 5.8 | 6.8 | 7.0 | 7.0 | 6.0 | 5.8 | 5.3 | 5.5 | 5.3 | 4.5 | 3.8 |
| 160° | 5.8 | 6.9 | 6.9 | 7.0 | 6.1 | 5.9 | 5.4 | 5.7 | 5.4 | 4.6 | 3.9 |
| 160.5° | 5.9 | 6.8 | 6.9 | 7.1 | 6.2 | 6.0 | 5.6 | 5.9 | 5.6 | 4.8 | 4.1 |
| 161° | 6.0 | 6.8 | 7.0 | 7.2 | 6.4 | 6.2 | 5.8 | 6.1 | 5.8 | 5.0 | 4.3 |
| 161.5° | 6.2 | 7.0 | 7.1 | 7.3 | 6.6 | 6.3 | 5.9 | 6.2 | 5.9 | 5.3 | 4.4 |
| 162° | 6.3 | 7.1 | 7.3 | 7.4 | 6.7 | 6.5 | 6.1 | 6.4 | 6.1 | 5.3 | 4.6 |
| 162.5° | 6.6 | 7.2 | 7.4 | 7.5 | 6.8 | 6.7 | 6.3 | 6.5 | 6.2 | 5.4 | 4.8 |
| 163° | 6.8 | 7.2 | 7.4 | 7.6 | 7.0 | 6.8 | 6.5 | 6.7 | 6.4 | 5.6 | 4.9 |
| 163.5° | 6.8 | 7.4 | 7.6 | 7.9 | 7.0 | 6.9 | 6.6 | 6.9 | 6.5 | 5.7 | 5.1 |
| 164° | 6.8 | 7.6 | 7.8 | 8.0 | 7.2 | 7.0 | 6.7 | 7.0 | 6.7 | 5.9 | 5.3 |
| 164.5° | 7.0 | 7.9 | 7.9 | 8.2 | 7.3 | 7.1 | 7.0 | 7.1 | 6.8 | 6.1 | 5.4 |
| 165° | 7.1 | 8.0 | 8.0 | 8.2 | 7.4 | 7.3 | 7.1 | 7.3 | 7.0 | 6.1 | 5.5 |
| 165.5° | 7.2 | 8.0 | 8.0 | 8.2 | 7.5 | 7.5 | 7.3 | 7.5 | 7.2 | 6.3 | 5.7 |
| 166° | 7.2 | 8.0 | 7.9 | 8.2 | 7.6 | 7.6 | 7.4 | 7.6 | 7.3 | 6.4 | 5.8 |
| 166.5° | 7.3 | 8.0 | 7.9 | 8.2 | 7.8 | 7.7 | 7.5 | 7.7 | 7.4 | 6.6 | 6.0 |
| 167° | 7.3 | 8.0 | 8.0 | 8.2 | 7.9 | 7.8 | 7.6 | 7.8 | 7.4 | 6.7 | 6.1 |
| 167.5° | 7.4 | 8.0 | 8.1 | 8.2 | 8.1 | 8.0 | 7.8 | 7.8 | 7.6 | 6.8 | 6.2 |
| 168° | 7.6 | 8.0 | 8.1 | 8.2 | 8.1 | 8.1 | 7.8 | 8.0 | 7.8 | 6.9 | 6.3 |
| 168.5° | 7.8 | 8.0 | 8.1 | 8.2 | 8.3 | 8.2 | 7.9 | 8.2 | 7.8 | 7.0 | 6.4 |
| 169° | 7.9 | 8.0 | 8.1 | 8.2 | 8.3 | 8.3 | 7.9 | 8.2 | 7.9 | 7.0 | 6.6 |
| 169.5° | 8.0 | 8.0 | 8.1 | 8.2 | 8.5 | 8.4 | 8.1 | 8.2 | 8.0 | 7.2 | 6.6 |
| 170° | 8.0 | 8.0 | 8.1 | 8.2 | 8.5 | 8.4 | 8.1 | 8.2 | 8.0 | 7.3 | 6.8 |
| 170.5° | 8.0 | 8.2 | 8.2 | 8.2 | 8.7 | 8.6 | 8.1 | 8.2 | 8.2 | 7.4 | 6.8 |
| 171° | 8.0 | 8.2 | 8.3 | 8.2 | 8.8 | 8.6 | 8.1 | 8.2 | 8.2 | 7.4 | 7.0 |
| 171.5° | 8.0 | 8.2 | 8.3 | 8.2 | 8.9 | 8.8 | 8.1 | 8.2 | 8.2 | 7.6 | 7.0 |
| 172° | 8.0 | 8.3 | 8.2 | 8.2 | 8.9 | 8.8 | 8.1 | 8.2 | 8.2 | 7.6 | 7.1 |
| 172.5° | 8.0 | 8.3 | 8.2 | 8.2 | 9.1 | 9.0 | 8.1 | 8.2 | 8.2 | 7.6 | 7.2 |
| 173° | 8.0 | 8.2 | 8.2 | 8.2 | 9.2 | 9.1 | 8.1 | 8.2 | 8.2 | 7.9 | 7.5 |
| 173.5° | 8.0 | 8.2 | 8.2 | 8.2 | 9.1 | 9.1 | 8.1 | 8.2 | 8.2 | 7.9 | 7.6 |
| 174° | 8.0 | 8.2 | 8.2 | 8.2 | 9.1 | 9.1 | 8.1 | 8.2 | 8.2 | 8.0 | 7.6 |
| 174.5° | 8.0 | 8.2 | 8.2 | 8.2 | 9.1 | 9.1 | 8.1 | 8.2 | 8.2 | 7.9 | 7.6 |
| 175° | 8.0 | 8.2 | 8.2 | 8.2 | 9.1 | 9.0 | 8.1 | 8.1 | 8.2 | 7.9 | 7.7 |
| 175.5° | 8.0 | 8.2 | 8.2 | 8.0 | 9.0 | 9.0 | 8.1 | 8.1 | 8.2 | 7.9 | 7.7 |
| 176° | 8.0 | 8.2 | 8.2 | 8.0 | 9.0 | 9.0 | 7.9 | 8.1 | 8.2 | 7.9 | 7.7 |
| 176.5° | 8.0 | 8.3 | 8.2 | 8.0 | 9.0 | 9.0 | 8.0 | 8.1 | 8.2 | 7.9 | 7.7 |
| 177° | 8.0 | 8.2 | 8.1 | 7.9 | 9.0 | 8.9 | 7.9 | 8.1 | 8.2 | 7.9 | 7.7 |
| 177.5° | 8.0 | 8.2 | 7.9 | 7.8 | 9.0 | 8.7 | 7.9 | 8.1 | 8.2 | 8.0 | 7.8 |
| 178° | 8.0 | 8.0 | 7.9 | 7.7 | 9.0 | 8.6 | 7.9 | 8.0 | 8.2 | 7.9 | 7.8 |
| 178.5° | 8.0 | 8.0 | 7.7 | 7.6 | 9.0 | 8.5 | 7.9 | 8.0 | 8.2 | 8.0 | 7.8 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 180° | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 2743.3 | 2743.3 | 2743.3 | 2743.3 | 2743.3 | 2743.3 |
| 0.5° | 2766.7 | 2765.1 | 2758.0 | 2741.0 | 2774.1 | 2751.4 |
| 1° | 2801.0 | 2779.8 | 2781.1 | 2775.3 | 2788.2 | 2756.2 |
| 1.5° | 2823.9 | 2806.4 | 2808.3 | 2795.0 | 2799.1 | 2774.5 |
| 2° | 2844.4 | 2823.8 | 2821.5 | 2806.8 | 2807.0 | 2744.9 |
| 2.5° | 2858.3 | 2844.5 | 2825.2 | 2831.5 | 2817.4 | 2735.5 |
| 3° | 2888.5 | 2853.4 | 2846.6 | 2838.4 | 2816.8 | 2735.9 |
| 3.5° | 2891.2 | 2863.8 | 2863.9 | 2845.7 | 2808.6 | 2729.3 |
| 4° | 2901.6 | 2881.8 | 2879.9 | 2860.5 | 2815.7 | 2714.5 |
| 4.5° | 2895.7 | 2908.4 | 2880.5 | 2860.9 | 2816.8 | 2722.2 |
| 5° | 2899.1 | 2897.4 | 2897.7 | 2854.5 | 2802.6 | 2687.1 |
| 5.5° | 2903.7 | 2907.0 | 2923.2 | 2868.8 | 2795.2 | 2678.9 |
| 6° | 2912.9 | 2921.6 | 2923.8 | 2870.4 | 2787.0 | 2672.0 |
| 6.5° | 2915.5 | 2932.1 | 2923.3 | 2873.4 | 2783.3 | 2649.9 |
| 7° | 2913.2 | 2923.0 | 2943.2 | 2872.3 | 2774.7 | 2633.6 |
| 7.5° | 2901.4 | 2928.4 | 2914.4 | 2862.8 | 2752.2 | 2599.3 |
| 8° | 2891.4 | 2923.2 | 2906.4 | 2829.7 | 2724.4 | 2583.1 |
| 8.5° | 2872.6 | 2930.1 | 2896.9 | 2821.1 | 2711.5 | 2552.8 |
| 9° | 2875.0 | 2919.4 | 2905.7 | 2824.6 | 2688.1 | 2542.7 |
| 9.5° | 2871.4 | 2930.3 | 2897.9 | 2812.7 | 2682.1 | 2509.3 |
| 10° | 2847.6 | 2926.1 | 2905.6 | 2778.9 | 2668.3 | 2498.1 |
| 10.5° | 2836.8 | 2913.5 | 2873.4 | 2778.7 | 2638.9 | 2463.4 |
| 11° | 2821.6 | 2892.5 | 2878.5 | 2749.8 | 2619.3 | 2424.6 |
| 11.5° | 2801.7 | 2889.5 | 2867.9 | 2722.3 | 2579.7 | 2383.0 |
| 12° | 2784.2 | 2872.0 | 2841.3 | 2701.1 | 2553.8 | 2361.0 |
| 12.5° | 2762.7 | 2850.8 | 2812.0 | 2687.3 | 2530.1 | 2326.8 |
| 13° | 2745.9 | 2853.1 | 2808.0 | 2672.1 | 2494.2 | 2308.6 |
| 13.5° | 2718.5 | 2808.6 | 2794.3 | 2650.3 | 2463.9 | 2269.2 |
| 14° | 2697.6 | 2774.8 | 2747.1 | 2607.1 | 2439.7 | 2235.8 |
| 14.5° | 2666.5 | 2747.1 | 2723.8 | 2579.5 | 2415.7 | 2190.3 |
| 15° | 2644.8 | 2737.9 | 2706.2 | 2553.1 | 2378.2 | 2142.8 |
| 15.5° | 2621.5 | 2704.4 | 2668.8 | 2537.6 | 2343.2 | 2111.6 |
| 16° | 2595.7 | 2671.0 | 2635.1 | 2500.8 | 2311.4 | 2076.4 |
| 16.5° | 2566.3 | 2636.8 | 2618.4 | 2467.7 | 2271.4 | 2029.9 |
| 17° | 2535.6 | 2604.4 | 2591.2 | 2438.6 | 2232.2 | 1989.6 |
| 17.5° | 2511.7 | 2560.2 | 2558.6 | 2409.6 | 2205.3 | 1941.7 |
| 18° | 2469.7 | 2558.1 | 2531.9 | 2370.6 | 2168.3 | 1892.8 |
| 18.5° | 2443.5 | 2517.6 | 2491.4 | 2337.3 | 2119.3 | 1838.9 |
| 19° | 2407.0 | 2477.1 | 2460.6 | 2305.6 | 2079.3 | 1801.7 |
| 19.5° | 2374.4 | 2459.9 | 2424.9 | 2279.1 | 2039.7 | 1748.1 |
| 20° | 2341.1 | 2432.6 | 2392.6 | 2237.7 | 2000.0 | 1691.3 |
| 20.5° | 2301.7 | 2387.7 | 2353.4 | 2190.2 | 1944.0 | 1637.2 |
| 21° | 2258.3 | 2342.8 | 2321.2 | 2148.5 | 1899.7 | 1582.3 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 22.5° | 2137.0 | 2230.4 | 2193.8 | 2026.8 | 1753.6 | 1403.7 |
| 23° | 2097.2 | 2183.2 | 2142.4 | 1975.8 | 1700.9 | 1344.7 |
| 23.5° | 2051.4 | 2153.6 | 2108.7 | 1931.1 | 1637.6 | 1280.4 |
| 24° | 2002.7 | 2100.0 | 2071.4 | 1880.0 | 1589.0 | 1223.8 |
| 24.5° | 1955.3 | 2042.1 | 2013.0 | 1824.5 | 1535.3 | 1168.4 |
| 25° | 1907.7 | 2004.1 | 1971.2 | 1770.4 | 1484.9 | 1114.6 |
| 25.5° | 1856.9 | 1954.4 | 1920.1 | 1719.1 | 1414.0 | 1057.6 |
| 26° | 1804.3 | 1902.0 | 1868.3 | 1668.0 | 1352.9 | 1000.0 |
| 26.5° | 1744.8 | 1848.0 | 1811.8 | 1610.8 | 1293.0 | 947.3 |
| 27° | 1683.9 | 1787.5 | 1757.6 | 1547.3 | 1233.0 | 896.3 |
| 27.5° | 1630.8 | 1737.3 | 1694.5 | 1486.8 | 1173.1 | 845.0 |
| 28° | 1570.7 | 1674.5 | 1639.4 | 1423.5 | 1113.7 | 794.5 |
| 28.5° | 1507.7 | 1617.8 | 1578.7 | 1361.0 | 1058.5 | 743.4 |
| 29° | 1445.2 | 1560.3 | 1515.6 | 1297.5 | 1002.6 | 695.5 |
| 29.5° | 1384.2 | 1497.3 | 1453.4 | 1237.2 | 944.3 | 650.6 |
| 30° | 1319.0 | 1425.7 | 1388.5 | 1174.9 | 897.6 | 608.3 |
| 30.5° | 1253.4 | 1359.8 | 1328.7 | 1121.6 | 846.7 | 565.9 |
| 31° | 1190.5 | 1301.0 | 1266.3 | 1065.6 | 793.8 | 524.2 |
| 31.5° | 1132.2 | 1241.2 | 1202.0 | 1009.9 | 746.6 | 485.3 |
| 32° | 1079.1 | 1175.7 | 1142.5 | 953.8 | 701.8 | 446.7 |
| 32.5° | 1022.6 | 1113.3 | 1085.8 | 900.2 | 655.1 | 413.7 |
| 33° | 966.9 | 1059.8 | 1029.7 | 847.6 | 612.8 | 380.5 |
| 33.5° | 910.4 | 999.1 | 973.3 | 797.1 | 570.0 | 350.3 |
| 34° | 858.7 | 941.3 | 919.6 | 747.0 | 529.3 | 321.1 |
| 34.5° | 805.2 | 892.5 | 866.9 | 700.2 | 488.8 | 293.0 |
| 35° | 754.7 | 833.1 | 813.7 | 654.4 | 451.2 | 268.7 |
| 35.5° | 706.7 | 782.0 | 761.7 | 610.0 | 416.9 | 247.0 |
| 36° | 658.5 | 736.0 | 710.9 | 567.8 | 379.6 | 228.0 |
| 36.5° | 613.4 | 687.4 | 662.4 | 526.8 | 349.8 | 210.4 |
| 37° | 570.5 | 639.8 | 617.2 | 488.7 | 320.3 | 195.0 |
| 37.5° | 529.1 | 595.3 | 573.8 | 450.3 | 293.9 | 180.6 |
| 38° | 489.8 | 554.0 | 532.1 | 413.2 | 269.6 | 167.5 |
| 38.5° | 451.4 | 511.1 | 491.6 | 379.0 | 247.8 | 157.1 |
| 39° | 416.6 | 473.7 | 455.0 | 347.7 | 228.0 | 147.2 |
| 39.5° | 382.4 | 436.0 | 419.4 | 318.4 | 209.9 | 138.1 |
| 40° | 349.8 | 403.9 | 386.8 | 292.0 | 194.0 | 130.7 |
| 40.5° | 319.5 | 371.1 | 355.6 | 267.6 | 180.1 | 124.1 |
| 41° | 292.7 | 340.0 | 326.8 | 246.1 | 167.8 | 117.6 |
| 41.5° | 269.5 | 310.9 | 298.6 | 226.5 | 157.2 | 112.1 |
| 42° | 248.0 | 286.4 | 273.6 | 208.9 | 146.6 | 107.4 |
| 42.5° | 228.7 | 263.1 | 251.3 | 193.6 | 138.4 | 103.1 |
| 43° | 212.1 | 242.2 | 231.4 | 179.9 | 131.1 | 98.2 |
| 43.5° | 196.3 | 222.8 | 214.2 | 166.6 | 123.6 | 93.7 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|------|
| 45° | 159.4 | 179.9 | 171.3 | 136.8 | 105.2 | 82.5 |
| 45.5° | 149.8 | 168.2 | 160.2 | 129.1 | 100.2 | 79.2 |
| 46° | 140.8 | 157.8 | 150.2 | 122.3 | 95.4 | 76.0 |
| 46.5° | 132.4 | 148.6 | 140.8 | 115.6 | 91.0 | 73.0 |
| 47° | 125.5 | 140.0 | 132.5 | 109.4 | 87.4 | 70.3 |
| 47.5° | 119.0 | 131.7 | 125.5 | 104.0 | 84.1 | 67.7 |
| 48° | 112.5 | 124.9 | 118.7 | 99.2 | 80.9 | 65.6 |
| 48.5° | 107.1 | 118.6 | 112.3 | 95.1 | 77.6 | 63.5 |
| 49° | 101.7 | 113.0 | 106.0 | 91.2 | 74.9 | 61.4 |
| 49.5° | 96.9 | 107.6 | 100.5 | 87.1 | 72.4 | 59.3 |
| 50° | 92.7 | 102.2 | 95.7 | 83.2 | 69.9 | 57.2 |
| 50.5° | 89.0 | 97.6 | 91.8 | 79.8 | 67.2 | 55.5 |
| 51° | 84.9 | 93.1 | 88.0 | 76.5 | 64.9 | 53.5 |
| 51.5° | 81.5 | 89.2 | 84.4 | 73.5 | 62.7 | 51.8 |
| 52° | 78.6 | 85.4 | 80.6 | 70.9 | 60.5 | 50.2 |
| 52.5° | 75.9 | 81.7 | 77.3 | 68.1 | 58.5 | 48.7 |
| 53° | 73.2 | 78.5 | 74.1 | 65.5 | 56.6 | 47.3 |
| 53.5° | 70.8 | 75.3 | 71.1 | 62.8 | 54.7 | 45.9 |
| 54° | 68.5 | 71.6 | 68.0 | 60.3 | 52.9 | 44.6 |
| 54.5° | 66.3 | 68.3 | 65.2 | 58.1 | 50.9 | 43.0 |
| 55° | 64.3 | 65.3 | 62.5 | 55.6 | 48.7 | 41.0 |
| 55.5° | 62.3 | 62.5 | 59.9 | 53.0 | 47.0 | 39.1 |
| 56° | 60.3 | 59.7 | 57.6 | 50.2 | 44.1 | 35.9 |
| 56.5° | 58.0 | 57.0 | 55.4 | 47.9 | 41.2 | 33.0 |
| 57° | 55.2 | 54.5 | 53.0 | 45.5 | 38.5 | 30.8 |
| 57.5° | 52.0 | 51.5 | 49.7 | 42.8 | 36.0 | 29.1 |
| 58° | 48.6 | 48.4 | 46.4 | 39.8 | 34.0 | 27.9 |
| 58.5° | 45.2 | 44.7 | 43.0 | 37.4 | 32.5 | 26.8 |
| 59° | 41.9 | 41.3 | 39.9 | 35.5 | 30.8 | 25.7 |
| 59.5° | 39.5 | 38.9 | 37.8 | 33.8 | 29.3 | 24.6 |
| 60° | 37.6 | 37.2 | 36.0 | 32.3 | 28.1 | 23.7 |
| 60.5° | 35.6 | 35.6 | 34.5 | 30.8 | 26.9 | 22.8 |
| 61° | 33.9 | 33.9 | 32.7 | 29.3 | 25.5 | 21.9 |
| 61.5° | 32.4 | 32.2 | 30.9 | 27.6 | 24.4 | 20.9 |
| 62° | 30.6 | 30.3 | 29.1 | 26.2 | 23.3 | 20.1 |
| 62.5° | 28.7 | 28.3 | 27.1 | 24.7 | 22.3 | 19.2 |
| 63° | 27.2 | 26.6 | 25.6 | 23.4 | 21.2 | 18.4 |
| 63.5° | 25.5 | 25.1 | 24.2 | 22.4 | 20.2 | 17.7 |
| 64° | 24.1 | 23.7 | 22.8 | 21.2 | 19.2 | 16.9 |
| 64.5° | 22.8 | 22.5 | 21.8 | 20.1 | 18.3 | 16.1 |
| 65° | 21.6 | 21.4 | 20.6 | 19.1 | 17.5 | 15.3 |
| 65.5° | 20.5 | 20.2 | 19.5 | 18.2 | 16.7 | 14.3 |
| 66° | 19.3 | 19.2 | 18.6 | 17.3 | 16.0 | 13.5 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 16.3 | 16.3 | 15.7 | 14.8 | 13.5 | 11.4 |
| 68° | 15.4 | 15.4 | 14.8 | 14.0 | 12.7 | 10.9 |
| 68.5° | 14.5 | 14.6 | 14.0 | 13.4 | 11.9 | 10.3 |
| 69° | 13.8 | 13.8 | 13.3 | 12.7 | 11.2 | 9.8 |
| 69.5° | 13.1 | 13.1 | 12.6 | 11.9 | 10.6 | 9.3 |
| 70° | 12.3 | 12.3 | 11.8 | 11.1 | 9.9 | 8.9 |
| 70.5° | 11.4 | 11.5 | 11.0 | 10.3 | 9.5 | 8.6 |
| 71° | 10.6 | 10.8 | 10.4 | 9.9 | 9.0 | 8.1 |
| 71.5° | 9.9 | 10.2 | 9.8 | 9.4 | 8.6 | 7.7 |
| 72° | 9.2 | 9.7 | 9.3 | 8.9 | 8.1 | 7.4 |
| 72.5° | 8.9 | 9.1 | 8.8 | 8.4 | 7.7 | 7.0 |
| 73° | 8.1 | 8.5 | 8.2 | 7.9 | 7.4 | 6.6 |
| 73.5° | 7.7 | 8.0 | 7.8 | 7.4 | 6.9 | 6.2 |
| 74° | 7.0 | 7.5 | 7.3 | 7.0 | 6.5 | 5.8 |
| 74.5° | 6.6 | 7.0 | 6.8 | 6.6 | 6.1 | 5.5 |
| 75° | 6.1 | 6.6 | 6.4 | 6.1 | 5.7 | 5.2 |
| 75.5° | 5.7 | 6.1 | 5.9 | 5.8 | 5.4 | 4.8 |
| 76° | 5.1 | 5.6 | 5.4 | 5.3 | 5.0 | 4.5 |
| 76.5° | 5.0 | 5.3 | 5.2 | 5.0 | 4.7 | 4.3 |
| 77° | 4.5 | 4.8 | 4.7 | 4.6 | 4.3 | 3.9 |
| 77.5° | 3.9 | 4.3 | 4.3 | 4.2 | 4.0 | 3.8 |
| 78° | 3.7 | 3.9 | 4.0 | 3.8 | 3.6 | 3.5 |
| 78.5° | 3.1 | 3.5 | 3.6 | 3.5 | 3.3 | 3.3 |
| 79° | 2.7 | 3.2 | 3.2 | 3.1 | 3.1 | 3.2 |
| 79.5° | 2.6 | 2.9 | 2.9 | 2.9 | 2.9 | 3.2 |
| 80° | 2.1 | 2.6 | 2.6 | 2.6 | 2.8 | 3.0 |
| 80.5° | 1.9 | 2.4 | 2.5 | 2.5 | 2.6 | 3.0 |
| 81° | 1.7 | 2.3 | 2.3 | 2.3 | 2.6 | 2.8 |
| 81.5° | 1.7 | 2.3 | 2.2 | 2.2 | 2.4 | 2.7 |
| 82° | 1.7 | 2.1 | 2.1 | 2.1 | 2.4 | 2.6 |
| 82.5° | 1.6 | 2.0 | 1.9 | 2.1 | 2.2 | 2.4 |
| 83° | 1.5 | 1.9 | 1.9 | 2.0 | 2.2 | 2.2 |
| 83.5° | 1.2 | 1.7 | 1.7 | 1.8 | 2.0 | 2.2 |
| 84° | 1.0 | 1.6 | 1.6 | 1.7 | 1.8 | 2.0 |
| 84.5° | 0.8 | 1.4 | 1.4 | 1.5 | 1.7 | 1.9 |
| 85° | 0.7 | 1.3 | 1.3 | 1.4 | 1.6 | 1.7 |
| 85.5° | 0.7 | 1.1 | 1.1 | 1.2 | 1.4 | 1.6 |
| 86° | 0.5 | 0.8 | 1.0 | 1.1 | 1.3 | 1.4 |
| 86.5° | 0.3 | 0.7 | 0.7 | 0.9 | 1.1 | 1.2 |
| 87° | 0.1 | 0.5 | 0.5 | 0.7 | 0.9 | 1.1 |
| 87.5° | 0.0 | 0.3 | 0.4 | 0.5 | 0.7 | 0.9 |
| 88° | 0.0 | 0.1 | 0.2 | 0.3 | 0.6 | 0.7 |
| 88.5° | 0.0 | 0.0 | 0.1 | 0.3 | 0.3 | 0.7 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 90° | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 |
| 90.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 91° | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 91.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94° | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| 94.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 103° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 103.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 104° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 104.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 106° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 106.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 108° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 108.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 109° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 109.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 111° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 113° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 113.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 114° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 114.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 116° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 116.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 118° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 118.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 119° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 119.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 121° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 121.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 123° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 123.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 124° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 124.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 126° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 126.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 128° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 128.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 129° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 129.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 131° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 131.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 133° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 133.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 135° | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 135.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 136° | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 |
| 136.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 |
| 137° | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 |
| 137.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.4 | 0.5 |
| 138° | 0.2 | 0.0 | 0.0 | 0.2 | 0.4 | 0.7 |
| 138.5° | 0.2 | 0.0 | 0.1 | 0.2 | 0.4 | 0.7 |
| 139° | 0.2 | 0.0 | 0.1 | 0.3 | 0.5 | 0.8 |
| 139.5° | 0.3 | 0.1 | 0.3 | 0.4 | 0.6 | 0.8 |
| 140° | 0.3 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 |
| 140.5° | 0.3 | 0.2 | 0.4 | 0.5 | 0.8 | 0.7 |
| 141° | 0.3 | 0.3 | 0.4 | 0.5 | 0.8 | 0.8 |
| 141.5° | 0.3 | 0.5 | 0.4 | 0.7 | 0.7 | 0.7 |
| 142° | 0.3 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 |
| 142.5° | 0.3 | 0.7 | 0.6 | 0.7 | 0.7 | 0.9 |
| 143° | 0.3 | 0.7 | 0.7 | 0.8 | 0.8 | 1.0 |
| 143.5° | 0.4 | 0.7 | 0.8 | 0.8 | 0.7 | 1.1 |
| 144° | 0.4 | 0.7 | 0.8 | 0.8 | 0.7 | 1.4 |
| 144.5° | 0.5 | 0.7 | 0.7 | 0.8 | 0.9 | 1.6 |
| 145° | 0.4 | 0.7 | 0.7 | 0.8 | 1.0 | 1.6 |
| 145.5° | 0.5 | 0.7 | 0.7 | 0.9 | 1.0 | 1.6 |
| 146° | 0.6 | 0.8 | 0.8 | 0.9 | 1.4 | 1.7 |
| 146.5° | 0.5 | 0.8 | 0.9 | 0.9 | 1.6 | 1.8 |
| 147° | 0.7 | 1.0 | 1.0 | 1.0 | 1.6 | 1.8 |
| 147.5° | 0.7 | 1.0 | 1.0 | 1.3 | 1.7 | 2.1 |
| 148° | 0.7 | 1.4 | 1.2 | 1.6 | 1.6 | 2.3 |
| 148.5° | 0.8 | 1.6 | 1.6 | 1.7 | 1.8 | 2.7 |
| 149° | 0.9 | 1.6 | 1.6 | 1.7 | 1.9 | 2.8 |
| 149.5° | 0.9 | 1.7 | 1.6 | 1.6 | 2.0 | 2.8 |
| 150° | 0.9 | 1.7 | 1.6 | 1.8 | 2.1 | 2.8 |
| 150.5° | 1.1 | 1.7 | 1.7 | 1.8 | 2.7 | 2.9 |
| 151° | 1.2 | 1.8 | 1.8 | 2.0 | 2.7 | 3.0 |
| 151.5° | 1.2 | 2.0 | 1.9 | 2.2 | 2.7 | 3.2 |
| 152° | 1.2 | 2.1 | 2.1 | 2.5 | 2.6 | 3.5 |
| 152.5° | 1.4 | 2.5 | 2.2 | 2.6 | 2.8 | 3.7 |
| 153° | 1.4 | 2.7 | 2.5 | 2.7 | 3.0 | 3.7 |
| 153.5° | 1.5 | 2.7 | 2.6 | 2.7 | 3.2 | 3.8 |
| 154° | 1.6 | 2.7 | 2.6 | 2.8 | 3.4 | 4.0 |
| 154.5° | 1.7 | 2.7 | 2.7 | 2.9 | 3.7 | 4.2 |
| 155° | 1.8 | 2.9 | 2.8 | 3.1 | 3.8 | 4.9 |
| 155.5° | 2.0 | 3.0 | 3.0 | 3.4 | 3.8 | 4.9 |
| 156° | 2.1 | 3.2 | 3.1 | 3.7 | 3.9 | 4.9 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 157.5° | 2.5 | 3.6 | 3.7 | 3.9 | 5.0 | 5.1 |
| 158° | 2.6 | 3.7 | 3.7 | 4.0 | 5.0 | 5.2 |
| 158.5° | 2.8 | 3.9 | 3.8 | 4.6 | 5.0 | 5.4 |
| 159° | 2.9 | 4.0 | 4.1 | 5.0 | 5.0 | 5.8 |
| 159.5° | 3.2 | 4.2 | 4.4 | 5.0 | 5.1 | 5.8 |
| 160° | 3.3 | 4.9 | 4.9 | 4.9 | 5.2 | 5.8 |
| 160.5° | 3.5 | 4.9 | 4.9 | 4.9 | 5.4 | 5.9 |
| 161° | 3.6 | 5.0 | 4.9 | 5.0 | 5.8 | 6.0 |
| 161.5° | 3.8 | 5.0 | 4.9 | 5.1 | 5.8 | 6.2 |
| 162° | 4.0 | 5.0 | 4.9 | 5.3 | 5.8 | 6.3 |
| 162.5° | 4.2 | 5.1 | 5.1 | 5.8 | 5.9 | 6.6 |
| 163° | 4.4 | 5.1 | 5.2 | 5.8 | 6.1 | 6.8 |
| 163.5° | 4.4 | 5.4 | 5.5 | 5.8 | 6.3 | 6.8 |
| 164° | 4.7 | 5.5 | 5.7 | 5.9 | 6.4 | 6.8 |
| 164.5° | 4.8 | 5.9 | 5.7 | 6.1 | 6.8 | 7.0 |
| 165° | 5.0 | 5.8 | 5.8 | 6.2 | 6.9 | 7.1 |
| 165.5° | 5.1 | 5.8 | 6.0 | 6.3 | 6.9 | 7.2 |
| 166° | 5.4 | 5.9 | 6.2 | 6.8 | 6.9 | 7.2 |
| 166.5° | 5.5 | 6.1 | 6.4 | 6.8 | 6.9 | 7.3 |
| 167° | 5.5 | 6.2 | 6.8 | 6.7 | 7.0 | 7.3 |
| 167.5° | 5.7 | 6.5 | 6.8 | 6.9 | 7.1 | 7.4 |
| 168° | 5.9 | 6.7 | 6.8 | 6.9 | 7.1 | 7.6 |
| 168.5° | 6.0 | 6.8 | 6.8 | 7.0 | 7.2 | 7.8 |
| 169° | 6.1 | 6.8 | 6.9 | 7.1 | 7.3 | 7.9 |
| 169.5° | 6.2 | 6.8 | 7.0 | 7.2 | 7.4 | 8.0 |
| 170° | 6.3 | 7.0 | 7.2 | 7.3 | 7.5 | 8.0 |
| 170.5° | 6.5 | 7.1 | 7.5 | 7.6 | 7.8 | 8.0 |
| 171° | 6.6 | 7.2 | 7.7 | 7.8 | 7.9 | 8.0 |
| 171.5° | 6.7 | 7.7 | 7.9 | 7.8 | 8.0 | 8.0 |
| 172° | 6.8 | 7.9 | 7.9 | 7.8 | 8.0 | 8.0 |
| 172.5° | 6.9 | 7.9 | 7.9 | 7.8 | 8.0 | 8.0 |
| 173° | 7.1 | 7.9 | 7.9 | 7.8 | 8.0 | 8.0 |
| 173.5° | 7.2 | 7.9 | 7.9 | 7.8 | 8.0 | 8.0 |
| 174° | 7.3 | 7.9 | 7.9 | 7.8 | 8.0 | 8.0 |
| 174.5° | 7.4 | 7.9 | 7.9 | 7.9 | 8.0 | 8.0 |
| 175° | 7.4 | 7.9 | 7.9 | 7.9 | 8.0 | 8.0 |
| 175.5° | 7.6 | 7.9 | 7.9 | 7.9 | 8.0 | 8.0 |
| 176° | 7.6 | 7.9 | 7.9 | 8.0 | 8.0 | 8.0 |
| 176.5° | 7.6 | 7.9 | 7.9 | 8.0 | 8.0 | 8.0 |
| 177° | 7.6 | 7.9 | 7.9 | 7.9 | 8.0 | 8.0 |
| 177.5° | 7.6 | 7.9 | 7.9 | 7.9 | 8.0 | 8.0 |
| 178° | 7.7 | 7.9 | 7.9 | 7.9 | 8.0 | 8.0 |
| 178.5° | 7.7 | 8.0 | 7.9 | 7.9 | 8.0 | 8.0 |



TEST NUMBER: P571725

CATALOG NUMBER: RLS6159FS1EWHDM 4000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 180° | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°







| | | | | | | | | | | | |
|-------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 21.5° | 1524.7 | 1195.8 | 952.2 | 797.9 | 741.1 | 750.2 | 843.4 | 1029.4 | 1302.6 | 1620.4 | 1935.0 |
| 22° | 1464.8 | 1136.0 | 894.8 | 750.6 | 695.9 | 701.3 | 793.9 | 975.4 | 1240.0 | 1572.7 | 1890.6 |



| | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|-------|
| 44° | 89.9 | 71.6 | 62.1 | 58.5 | 54.8 | 55.7 | 56.7 | 64.2 | 75.7 | 96.4 | 130.7 |
| 44.5° | 86.4 | 69.3 | 60.3 | 57.1 | 53.5 | 54.6 | 54.9 | 62.9 | 73.4 | 92.2 | 123.5 |



| | | | | | | | | | | | |
|-------|------|------|-----|-----|-----|-----|-----|------|------|------|------|
| 66.5° | 12.8 | 11.0 | 9.9 | 9.5 | 8.3 | 8.8 | 9.3 | 10.4 | 12.1 | 14.5 | 16.6 |
| 67° | 12.1 | 10.5 | 9.6 | 9.0 | 7.9 | 8.1 | 9.0 | 9.9 | 11.4 | 13.6 | 15.8 |



| | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89° | 0.5 | 0.7 | 0.9 | 1.0 | 0.6 | 0.5 | 0.4 | 0.1 | 0.1 | 0.0 | 0.0 |
| 89.5° | 0.3 | 0.5 | 0.7 | 0.8 | 0.4 | 0.4 | 0.2 | 0.0 | 0.1 | 0.0 | 0.0 |



| | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 111.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |



| | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 134° | 0.0 | 0.5 | 0.9 | 0.7 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 |
| 134.5° | 0.1 | 0.6 | 0.8 | 0.7 | 0.5 | 0.5 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 |



| | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 156.5° | 4.9 | 5.8 | 5.8 | 6.2 | 5.1 | 4.8 | 4.2 | 4.6 | 4.1 | 3.4 | 2.8 |
| 157° | 4.9 | 5.7 | 6.0 | 6.4 | 5.3 | 5.1 | 4.4 | 4.7 | 4.4 | 3.6 | 2.9 |



| | | | | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 179° | 8.0 | 7.9 | 7.8 | 7.6 | 9.0 | 8.4 | 7.9 | 8.0 | 8.1 | 8.0 | 7.8 |
| 179.5° | 8.0 | 7.9 | 7.8 | 7.5 | 9.0 | 8.4 | 7.9 | 8.0 | 8.1 | 8.0 | 7.9 |





| | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|
| 21.5° | 2219.7 | 2312.9 | 2270.7 | 2106.4 | 1854.4 | 1524.7 |
| 22° | 2170.0 | 2263.0 | 2237.7 | 2071.4 | 1801.0 | 1464.8 |



| | | | | | | |
|-------|-------|-------|-------|-------|-------|------|
| 44° | 183.0 | 206.1 | 198.2 | 155.6 | 116.9 | 89.9 |
| 44.5° | 170.0 | 192.8 | 184.4 | 145.8 | 110.4 | 86.4 |



| | | | | | | |
|-------|------|------|------|------|------|------|
| 66.5° | 18.3 | 18.1 | 17.6 | 16.4 | 15.2 | 12.8 |
| 67° | 17.4 | 17.2 | 16.5 | 15.5 | 14.3 | 12.1 |



| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| 89° | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.5 |
| 89.5° | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.3 |



| | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|
| 111.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|
| 134° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 134.5° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |



| | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|
| 156.5° | 2.2 | 3.4 | 3.4 | 3.7 | 4.0 | 4.9 |
| 157° | 2.3 | 3.6 | 3.6 | 3.7 | 4.7 | 4.9 |



| | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|
| 179° | 7.8 | 8.0 | 7.9 | 7.9 | 8.0 | 8.0 |
| 179.5° | 7.8 | 8.3 | 7.9 | 7.9 | 8.1 | 8.0 |



(END OF REPORT)