

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P935954

Luminaire Tested: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935954
REPORT IS A COMBINATION OF REPORTS P933773 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

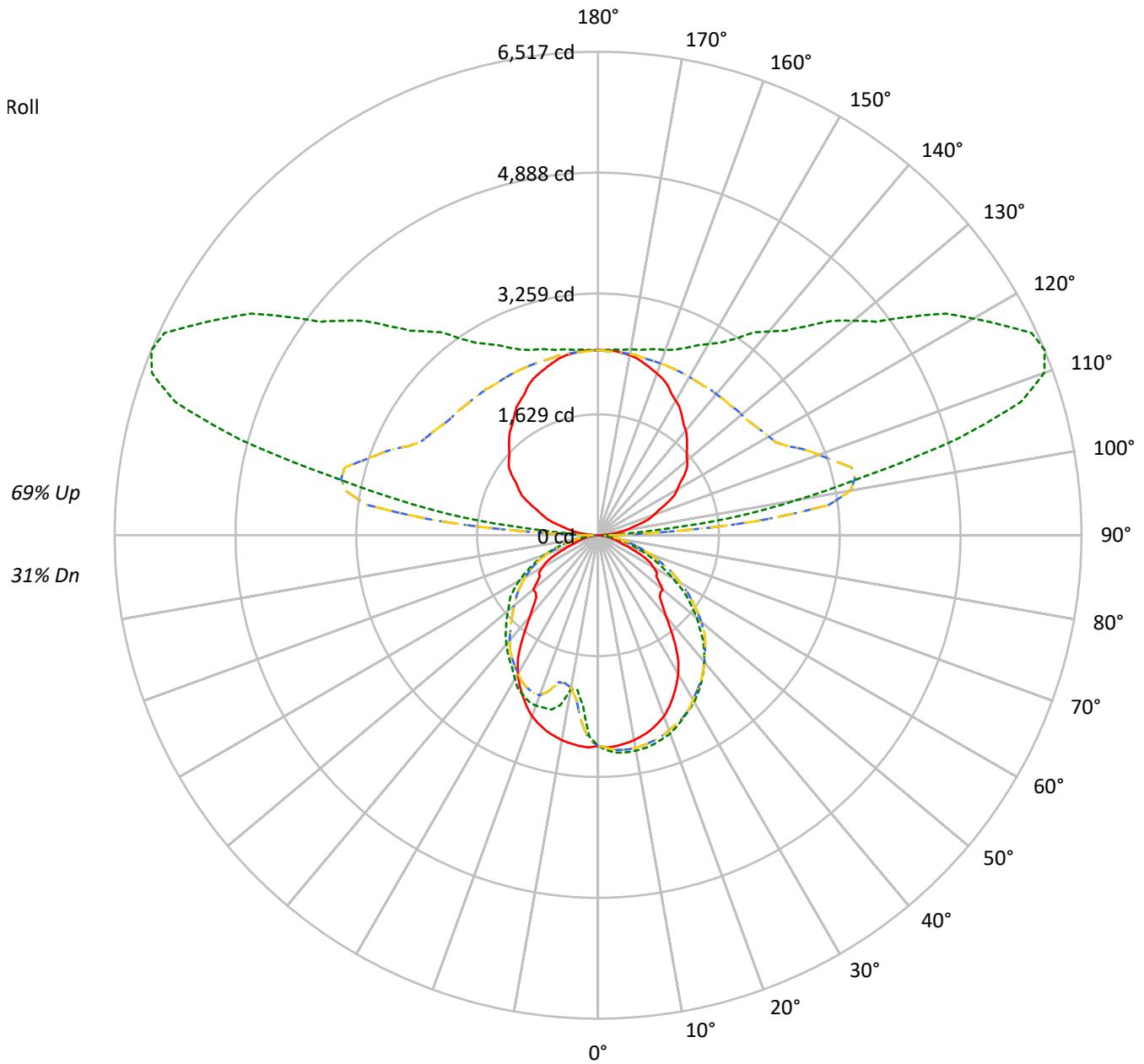
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23552.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 190.8
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: 24 FT

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Luminous Intensity Polar Plot



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



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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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8782	8782	8782	8782
5°	8851	8865	8851	6970
10°	8794	8732	8794	6243
15°	8702	8543	8702	7133
20°	8524	8319	8524	7148
25°	8154	7992	8154	6997
30°	7676	7720	7676	6664
35°	6847	7377	6847	6299
40°	5708	6973	5708	6022
45°	5103	6500	5103	5705
50°	5426	5936	5426	5386
55°	5110	5328	5110	5202
60°	5274	4525	5274	4765
65°	4789	3740	4789	4181
70°	3324	2981	3324	3505
75°	2927	2204	2927	2639
80°	2376	1457	2376	1586
85°	1393	771	1393	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7817 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	1.1
10°-20°	727.6	3.1
20°-30°	1124.8	4.8
30°-40°	1342.8	5.7
40°-50°	1350.6	5.7
50°-60°	1175.2	5.0
60°-70°	833.2	3.5
70°-80°	440.8	1.9
80°-90°	119.3	0.5
90°-100°	1216.7	5.2
100°-110°	3198.8	13.6
110°-120°	3316.9	14.1
120°-130°	2660.5	11.3
130°-140°	2087.6	8.9
140°-150°	1602.3	6.8
150°-160°	1153.9	4.9
160°-170°	706.0	3.0
170°-180°	238.5	1.0
0°-30°	2108.7	9.0
0°-40°	3451.5	14.7
0°-60°	5977.3	25.4
0°-90°	7370.7	31.3
90°-120°	7732.4	32.8
90°-150°	14082.8	59.8
90°-180°	16181.0	68.7
0°-180°	23552.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2839	2839	2839	2839	2839	
5°	2853	2941	2853	2313	2853	271
15°	2724	2914	2724	2434	2724	766
25°	2399	2718	2399	2380	2399	1101
35°	1824	2426	1824	2071	1824	1128
45°	1176	1998	1176	1754	1176	942
55°	959	1475	959	1440	959	881
65°	666	889	666	994	666	637
75°	252	422	252	505	252	265
85°	43	107	43	91	43	58
90°	17	64	17	64	17	16
95°	161	735	161	735	161	179
105°	576	5009	576	5009	576	611
115°	1024	6450	1024	6450	1024	1011
125°	1424	5136	1424	5136	1424	1264
135°	1697	3985	1697	3985	1697	1313
145°	1968	3233	1968	3233	1968	1233
155°	2225	2784	2225	2784	2225	1022
165°	2401	2593	2401	2593	2401	677
175°	2496	2513	2496	2513	2496	237
180°	2496	2496	2496	2496	2496	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2863.3	2863.3	2879.4	2884.8	2884.8	2876.7	2868.7	2876.7	2900.9	2909.0	2906.3
5°	2852.6	2874.0	2903.6	2909.0	2914.3	2911.6	2906.3	2911.6	2938.5	2943.9	2946.6
7.5°	2831.1	2871.4	2909.0	2917.0	2925.1	2917.0	2914.3	2919.7	2946.6	2951.9	2951.9
10°	2804.2	2860.6	2903.6	2909.0	2917.0	2909.0	2909.0	2919.7	2946.6	2951.9	2954.6
12.5°	2766.6	2844.5	2884.8	2890.2	2900.9	2898.2	2895.5	2906.3	2933.1	2938.5	2938.5
15°	2723.6	2815.0	2852.6	2857.9	2876.7	2871.4	2871.4	2882.1	2911.6	2919.7	2917.0
17.5°	2664.5	2777.3	2820.3	2828.4	2841.8	2839.1	2841.8	2852.6	2879.4	2884.8	2887.5
20°	2597.4	2726.3	2777.3	2785.4	2798.8	2798.8	2798.8	2812.3	2839.1	2849.9	2849.9
22.5°	2506.1	2672.6	2726.3	2731.7	2747.8	2747.8	2753.2	2772.0	2796.1	2798.8	2798.8
25°	2398.6	2613.5	2659.2	2675.3	2691.4	2699.5	2707.5	2718.3	2726.3	2723.6	2726.3
27.5°	2285.7	2538.3	2597.4	2608.1	2629.6	2637.7	2648.4	2651.1	2653.8	2661.9	2656.5
30°	2159.5	2433.5	2522.2	2532.9	2567.8	2573.2	2562.5	2567.8	2581.3	2586.6	2592.0
32.5°	2017.1	2277.7	2444.3	2468.5	2500.7	2484.6	2481.9	2490.0	2511.4	2511.4	2516.8
35°	1823.8	2156.8	2371.8	2393.3	2417.4	2398.6	2409.4	2412.1	2425.5	2433.5	2430.9
37.5°	1611.6	2052.1	2296.5	2312.6	2331.4	2307.2	2323.3	2331.4	2342.1	2336.8	2336.8
40°	1423.5	1888.2	2207.8	2218.6	2234.7	2215.9	2232.0	2237.4	2242.8	2237.4	2234.7
42.5°	1283.9	1708.3	2113.8	2127.3	2116.5	2129.9	2135.3	2146.1	2138.0	2127.3	2127.3
45°	1176.4	1659.9	2011.8	2027.9	2011.8	2033.3	2041.3	2041.3	2017.1	2011.8	2009.1
47.5°	1141.5	1563.2	1909.7	1909.7	1901.6	1928.5	1941.9	1923.1	1899.0	1890.9	1890.9
50°	1138.8	1455.8	1770.0	1759.3	1796.9	1829.1	1815.7	1796.9	1778.1	1748.5	1748.5
52.5°	1034.1	1324.2	1590.1	1630.4	1689.5	1708.3	1686.8	1668.0	1635.7	1622.3	1611.6
55°	958.9	1187.2	1426.2	1506.8	1568.6	1592.8	1552.5	1533.7	1485.3	1477.3	1471.9
57.5°	942.8	988.4	1275.8	1377.9	1453.1	1450.4	1426.2	1391.3	1351.0	1343.0	1340.3
60°	864.9	714.5	1114.7	1235.5	1313.4	1305.4	1283.9	1251.6	1214.0	1208.7	1203.3
62.5°	784.3	518.4	932.0	1069.0	1179.1	1176.4	1157.6	1109.3	1082.4	1069.0	1058.3
65°	666.1	435.1	663.4	889.0	1047.5	1052.9	1012.6	977.7	948.1	932.0	929.3
67.5°	507.6	354.5	448.6	741.3	921.3	915.9	864.9	848.8	811.2	803.1	787.0
70°	376.0	236.4	311.6	601.6	797.7	784.3	744.0	725.2	690.3	671.5	660.7
72.5°	311.6	190.7	228.3	467.4	671.5	655.4	620.5	599.0	569.4	553.3	542.6
75°	252.5	201.4	174.6	346.5	545.2	534.5	502.3	480.8	456.6	435.1	437.8
77.5°	185.3	188.0	139.7	255.2	432.4	416.3	397.5	370.7	359.9	338.4	338.4
80°	139.7	147.7	104.8	174.6	311.6	311.6	295.5	276.7	257.8	247.1	247.1
82.5°	94.0	94.0	77.9	110.1	212.2	204.1	193.4	188.0	177.3	171.9	171.9
85°	43.0	53.7	48.3	67.1	115.5	120.9	120.9	115.5	112.8	107.4	110.1
87.5°	13.4	24.2	29.5	37.6	59.1	61.8	64.5	64.5	64.5	67.1	67.1
90°	16.7	30.2	43.6	46.9	73.7	109.4	127.3	113.2	84.9	63.7	63.7
92.5°	67.0	180.9	294.8	323.3	454.5	629.5	717.0	628.3	451.1	318.3	305.7
95°	160.8	369.2	577.7	629.9	1118.5	1770.0	2095.7	1870.1	1419.0	1080.6	1042.2
97.5°	278.1	462.0	645.9	691.9	1506.6	2592.9	3136.0	2993.5	2708.3	2494.4	2421.5
100°	368.5	535.3	702.1	743.8	1647.9	2853.3	3456.0	3466.4	3487.2	3502.9	3416.0
102.5°	445.6	601.2	756.8	795.8	1712.6	2935.2	3546.5	3728.2	4091.5	4364.0	4289.5
105°	576.3	708.1	839.9	872.8	1760.7	2944.5	3536.4	3943.7	4758.2	5369.1	5329.1
107.5°	710.3	833.2	956.0	986.7	1769.6	2813.4	3335.4	3903.5	5039.6	5891.8	5901.4
110°	800.8	911.7	1022.6	1050.4	1756.2	2697.3	3167.9	3803.0	5073.2	6025.8	6067.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	889.6	995.3	1101.1	1127.5	1756.8	2595.9	3015.4	3665.4	4965.4	5940.4	6004.4
115°	1023.6	1121.1	1218.7	1243.1	1773.0	2479.6	2832.9	3459.0	4711.3	5650.6	5739.4
117.5°	1155.9	1244.5	1333.1	1355.2	1805.8	2406.7	2707.2	3272.3	4402.5	5250.2	5348.7
120°	1232.9	1316.4	1399.7	1420.6	1832.7	2382.2	2656.9	3173.3	4205.9	4980.4	5076.2
122.5°	1308.3	1392.5	1476.6	1497.7	1871.3	2369.4	2618.4	3083.4	4013.3	4710.8	4805.1
125°	1424.0	1500.6	1577.4	1596.5	1923.2	2358.8	2576.5	2971.5	3761.5	4353.9	4440.8
127.5°	1517.7	1595.2	1672.6	1692.0	1975.1	2352.6	2541.3	2880.5	3558.8	4067.5	4140.8
130°	1568.0	1651.4	1734.8	1755.6	2013.0	2356.3	2527.9	2829.8	3433.7	3886.5	3954.3
132.5°	1620.0	1703.3	1786.7	1807.5	2043.7	2358.7	2516.2	2786.5	3327.1	3732.5	3793.2
135°	1697.0	1772.9	1848.9	1867.9	2077.3	2356.6	2496.1	2722.5	3175.1	3514.6	3566.9
137.5°	1775.8	1851.0	1926.2	1945.0	2127.5	2371.0	2492.7	2684.1	3066.8	3353.8	3396.6
140°	1841.1	1910.3	1979.6	1996.9	2158.2	2373.4	2481.0	2646.3	2976.9	3224.8	3264.8
142.5°	1891.3	1955.4	2019.4	2035.4	2183.9	2382.0	2481.0	2626.2	2916.6	3134.4	3168.9
145°	1968.4	2024.3	2080.1	2094.0	2217.4	2382.0	2464.3	2583.0	2820.5	2998.7	3024.7
147.5°	2045.4	2099.8	2154.1	2167.7	2266.6	2398.4	2464.3	2557.7	2744.6	2884.8	2906.4
150°	2095.7	2144.9	2194.1	2206.3	2292.3	2407.0	2464.3	2543.2	2701.1	2819.4	2836.9
152.5°	2147.7	2184.9	2222.1	2231.4	2309.0	2412.5	2464.3	2531.7	2666.4	2767.5	2780.7
155°	2224.8	2252.3	2279.8	2286.7	2345.9	2424.8	2464.3	2517.9	2625.1	2705.5	2714.3
157.5°	2281.7	2308.5	2335.2	2342.0	2382.7	2437.0	2464.3	2506.0	2589.3	2651.9	2658.1
160°	2320.2	2341.1	2361.9	2367.1	2399.5	2442.7	2464.3	2500.0	2571.4	2625.1	2628.6
162.5°	2358.7	2374.4	2389.9	2393.9	2417.3	2448.6	2464.3	2494.4	2554.8	2600.0	2603.3
165°	2400.6	2414.7	2428.9	2432.5	2443.0	2457.2	2464.3	2485.8	2529.0	2561.4	2565.0
167.5°	2439.2	2445.9	2452.5	2454.2	2463.2	2475.1	2481.0	2495.1	2523.4	2544.7	2546.2
170°	2464.3	2471.0	2477.7	2479.4	2479.9	2480.6	2481.0	2495.1	2523.4	2544.7	2544.7
172.5°	2477.7	2479.1	2480.6	2481.0	2481.0	2481.0	2481.0	2492.2	2514.6	2531.3	2530.0
175°	2496.1	2496.1	2496.1	2496.1	2491.1	2484.4	2481.0	2488.1	2502.2	2512.9	2512.9
177.5°	2496.1	2496.1	2496.1	2496.1	2492.2	2487.0	2484.4	2490.0	2501.1	2509.5	2507.9
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2911.6	2903.6	2911.6	2906.3	2909.0	2900.9	2876.7	2868.7	2876.7	2884.8	2884.8
5°	2946.6	2941.2	2946.6	2946.6	2943.9	2938.5	2911.6	2906.3	2911.6	2914.3	2909.0
7.5°	2957.3	2949.2	2957.3	2951.9	2951.9	2946.6	2919.7	2914.3	2917.0	2925.1	2917.0
10°	2957.3	2949.2	2957.3	2954.6	2951.9	2946.6	2919.7	2909.0	2909.0	2917.0	2909.0
12.5°	2943.9	2938.5	2943.9	2938.5	2938.5	2933.1	2906.3	2895.5	2898.2	2900.9	2890.2
15°	2922.4	2914.3	2922.4	2917.0	2919.7	2911.6	2882.1	2871.4	2871.4	2876.7	2857.9
17.5°	2890.2	2879.4	2890.2	2887.5	2884.8	2879.4	2852.6	2841.8	2839.1	2841.8	2828.4
20°	2852.6	2844.5	2852.6	2849.9	2849.9	2839.1	2812.3	2798.8	2798.8	2798.8	2785.4
22.5°	2793.5	2785.4	2793.5	2798.8	2798.8	2796.1	2772.0	2753.2	2747.8	2747.8	2731.7
25°	2726.3	2718.3	2726.3	2726.3	2723.6	2726.3	2718.3	2707.5	2699.5	2691.4	2675.3
27.5°	2661.9	2656.5	2661.9	2656.5	2661.9	2653.8	2651.1	2648.4	2637.7	2629.6	2608.1
30°	2597.4	2592.0	2597.4	2592.0	2586.6	2581.3	2567.8	2562.5	2573.2	2567.8	2532.9
32.5°	2516.8	2511.4	2516.8	2516.8	2511.4	2511.4	2490.0	2481.9	2484.6	2500.7	2468.5
35°	2433.5	2425.5	2433.5	2430.9	2433.5	2425.5	2412.1	2409.4	2398.6	2417.4	2393.3
37.5°	2336.8	2328.7	2336.8	2336.8	2336.8	2342.1	2331.4	2323.3	2307.2	2331.4	2312.6
40°	2237.4	2226.6	2237.4	2234.7	2237.4	2242.8	2237.4	2232.0	2215.9	2234.7	2218.6
42.5°	2124.6	2121.9	2124.6	2127.3	2127.3	2138.0	2146.1	2135.3	2129.9	2116.5	2127.3
45°	2003.7	1998.3	2003.7	2009.1	2011.8	2017.1	2041.3	2041.3	2033.3	2011.8	2027.9
47.5°	1874.8	1861.4	1874.8	1890.9	1890.9	1899.0	1923.1	1941.9	1928.5	1901.6	1909.7
50°	1737.8	1740.5	1737.8	1748.5	1748.5	1778.1	1796.9	1815.7	1829.1	1796.9	1759.3
52.5°	1603.5	1600.8	1603.5	1611.6	1622.3	1635.7	1668.0	1686.8	1708.3	1689.5	1630.4
55°	1469.2	1474.6	1469.2	1471.9	1477.3	1485.3	1533.7	1552.5	1592.8	1568.6	1506.8
57.5°	1334.9	1326.9	1334.9	1340.3	1343.0	1351.0	1391.3	1426.2	1450.4	1453.1	1377.9
60°	1179.1	1168.4	1179.1	1203.3	1208.7	1214.0	1251.6	1283.9	1305.4	1313.4	1235.5
62.5°	1042.1	1023.3	1042.1	1058.3	1069.0	1082.4	1109.3	1157.6	1176.4	1179.1	1069.0
65°	897.1	889.0	897.1	929.3	932.0	948.1	977.7	1012.6	1052.9	1047.5	889.0
67.5°	765.5	765.5	765.5	787.0	803.1	811.2	848.8	864.9	915.9	921.3	741.3
70°	644.6	641.9	644.6	660.7	671.5	690.3	725.2	744.0	784.3	797.7	601.6
72.5°	529.1	526.4	529.1	542.6	553.3	569.4	599.0	620.5	655.4	671.5	467.4
75°	427.1	421.7	427.1	437.8	435.1	456.6	480.8	502.3	534.5	545.2	346.5
77.5°	327.7	327.7	327.7	338.4	338.4	359.9	370.7	397.5	416.3	432.4	255.2
80°	244.4	241.7	244.4	247.1	247.1	257.8	276.7	295.5	311.6	311.6	174.6
82.5°	171.9	166.5	171.9	171.9	171.9	177.3	188.0	193.4	204.1	212.2	110.1
85°	107.4	107.4	107.4	110.1	107.4	112.8	115.5	120.9	120.9	115.5	67.1
87.5°	69.8	67.1	69.8	67.1	67.1	64.5	64.5	64.5	61.8	59.1	37.6
90°	63.7	63.7	63.7	63.7	63.7	84.9	113.2	127.3	109.4	73.7	46.9
92.5°	255.0	204.4	255.0	305.7	318.3	451.1	628.3	717.0	629.5	454.5	323.3
95°	888.8	735.4	888.8	1042.2	1080.6	1419.0	1870.1	2095.7	1770.0	1118.5	629.9
97.5°	2129.6	1837.7	2129.6	2421.5	2494.4	2708.3	2993.5	3136.0	2592.9	1506.6	691.9
100°	3068.3	2720.6	3068.3	3416.0	3502.9	3487.2	3466.4	3456.0	2853.3	1647.9	743.8
102.5°	3991.7	3693.9	3991.7	4289.5	4364.0	4091.5	3728.2	3546.5	2935.2	1712.6	795.8
105°	5169.1	5009.0	5169.1	5329.1	5369.1	4758.2	3943.7	3536.4	2944.5	1760.7	872.8
107.5°	5940.2	5978.9	5940.2	5901.4	5891.8	5039.6	3903.5	3335.4	2813.4	1769.6	986.7
110°	6234.3	6401.1	6234.3	6067.5	6025.8	5073.2	3803.0	3167.9	2697.3	1756.2	1050.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6260.6	6516.7	6260.6	6004.4	5940.4	4965.4	3665.4	3015.4	2595.9	1756.8	1127.5
115°	6094.5	6449.6	6094.5	5739.4	5650.6	4711.3	3459.0	2832.9	2479.6	1773.0	1243.1
117.5°	5742.5	6136.4	5742.5	5348.7	5250.2	4402.5	3272.3	2707.2	2406.7	1805.8	1355.2
120°	5458.8	5841.6	5458.8	5076.2	4980.4	4205.9	3173.3	2656.9	2382.2	1832.7	1420.6
122.5°	5182.7	5560.2	5182.7	4805.1	4710.8	4013.3	3083.4	2618.4	2369.4	1871.3	1497.7
125°	4788.6	5136.3	4788.6	4440.8	4353.9	3761.5	2971.5	2576.5	2358.8	1923.2	1596.5
127.5°	4434.2	4727.5	4434.2	4140.8	4067.5	3558.8	2880.5	2541.3	2352.6	1975.1	1692.0
130°	4225.3	4496.3	4225.3	3954.3	3886.5	3433.7	2829.8	2527.9	2356.3	2013.0	1755.6
132.5°	4035.8	4278.5	4035.8	3793.2	3732.5	3327.1	2786.5	2516.2	2358.7	2043.7	1807.5
135°	3776.2	3985.4	3776.2	3566.9	3514.6	3175.1	2722.5	2496.1	2356.6	2077.3	1867.9
137.5°	3567.9	3739.1	3567.9	3396.6	3353.8	3066.8	2684.1	2492.7	2371.0	2127.5	1945.0
140°	3424.9	3585.0	3424.9	3264.8	3224.8	2976.9	2646.3	2481.0	2373.4	2158.2	1996.9
142.5°	3306.6	3444.3	3306.6	3168.9	3134.4	2916.6	2626.2	2481.0	2382.0	2183.9	2035.4
145°	3129.0	3233.2	3129.0	3024.7	2998.7	2820.5	2583.0	2464.3	2382.0	2217.4	2094.0
147.5°	2992.8	3079.1	2992.8	2906.4	2884.8	2744.6	2557.7	2464.3	2398.4	2266.6	2167.7
150°	2906.9	2976.9	2906.9	2836.9	2819.4	2701.1	2543.2	2464.3	2407.0	2292.3	2206.3
152.5°	2833.6	2886.4	2833.6	2780.7	2767.5	2666.4	2531.7	2464.3	2412.5	2309.0	2231.4
155°	2749.2	2784.2	2749.2	2714.3	2705.5	2625.1	2517.9	2464.3	2424.8	2345.9	2286.7
157.5°	2682.6	2707.2	2682.6	2658.1	2651.9	2589.3	2506.0	2464.3	2437.0	2382.7	2342.0
160°	2642.8	2656.9	2642.8	2628.6	2625.1	2571.4	2500.0	2464.3	2442.7	2399.5	2367.1
162.5°	2616.7	2630.2	2616.7	2603.3	2600.0	2554.8	2494.4	2464.3	2448.6	2417.3	2393.9
165°	2579.1	2593.3	2579.1	2565.0	2561.4	2529.0	2485.8	2464.3	2457.2	2443.0	2432.5
167.5°	2552.1	2558.1	2552.1	2546.2	2544.7	2523.4	2495.1	2481.0	2475.1	2463.2	2454.2
170°	2544.7	2544.7	2544.7	2544.7	2544.7	2523.4	2495.1	2481.0	2480.6	2479.9	2479.4
172.5°	2524.8	2519.6	2524.8	2530.0	2531.3	2514.6	2492.2	2481.0	2481.0	2481.0	2481.0
175°	2512.9	2512.9	2512.9	2512.9	2512.9	2502.2	2488.1	2481.0	2484.4	2491.1	2496.1
177.5°	2502.0	2496.1	2502.0	2507.9	2509.5	2501.1	2490.0	2484.4	2487.0	2492.2	2496.1
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2879.4	2863.3	2863.3	2836.4	2825.7	2817.6	2804.2	2763.9	2753.2	2742.4	2758.5
5°	2903.6	2874.0	2852.6	2804.2	2763.9	2747.8	2696.8	2600.1	2535.6	2487.3	2460.4
7.5°	2909.0	2871.4	2831.1	2755.9	2659.2	2616.2	2460.4	2283.0	2234.7	2191.7	2164.9
10°	2903.6	2860.6	2804.2	2691.4	2463.1	2387.9	2232.0	2116.5	2087.0	2078.9	2087.0
12.5°	2884.8	2844.5	2766.6	2578.6	2258.9	2207.8	2116.5	2049.4	2044.0	2057.4	2129.9
15°	2852.6	2815.0	2723.6	2428.2	2146.1	2108.5	2044.0	2019.8	2049.4	2143.4	2360.9
17.5°	2820.3	2777.3	2664.5	2280.4	2060.1	2033.3	1987.6	2035.9	2202.5	2328.7	2401.3
20°	2777.3	2726.3	2597.4	2172.9	1998.3	1974.2	1952.7	2170.2	2296.5	2342.1	2382.5
22.5°	2726.3	2672.6	2506.1	2097.7	1933.9	1915.1	1928.5	2245.4	2296.5	2328.7	2363.6
25°	2659.2	2613.5	2398.6	2038.6	1882.8	1861.4	1912.4	2237.4	2266.9	2275.0	2344.8
27.5°	2597.4	2538.3	2285.7	1984.9	1821.1	1813.0	1925.8	2202.5	2224.0	2232.0	2307.2
30°	2522.2	2433.5	2159.5	1928.5	1756.6	1753.9	1928.5	2159.5	2154.1	2175.6	2250.8
32.5°	2444.3	2277.7	2017.1	1858.7	1694.8	1692.1	1909.7	2095.0	2089.7	2119.2	2175.6
35°	2371.8	2156.8	1823.8	1778.1	1616.9	1619.6	1864.0	2019.8	2022.5	2049.4	2084.3
37.5°	2296.5	2052.1	1611.6	1689.5	1541.7	1541.7	1802.3	1950.0	1944.6	1952.7	2001.0
40°	2207.8	1888.2	1423.5	1574.0	1471.9	1463.8	1727.1	1874.8	1856.0	1853.3	1920.4
42.5°	2113.8	1708.3	1283.9	1420.9	1391.3	1380.6	1635.7	1783.5	1748.5	1756.6	1842.6
45°	2011.8	1659.9	1176.4	1200.6	1308.1	1300.0	1536.4	1678.7	1654.5	1676.0	1764.7
47.5°	1909.7	1563.2	1141.5	996.5	1219.4	1216.7	1426.2	1576.6	1563.2	1584.7	1678.7
50°	1770.0	1455.8	1138.8	854.1	1120.0	1130.8	1294.6	1477.3	1477.3	1496.1	1595.4
52.5°	1590.1	1324.2	1034.1	773.5	1004.5	1036.8	1179.1	1391.3	1396.7	1415.5	1504.1
55°	1426.2	1187.2	958.9	711.8	867.6	937.4	1066.3	1302.7	1313.4	1332.2	1412.8
57.5°	1275.8	988.4	942.8	639.3	741.3	808.5	966.9	1216.7	1222.1	1238.2	1316.1
60°	1114.7	714.5	864.9	561.4	631.2	682.2	875.6	1114.7	1133.5	1144.2	1211.4
62.5°	932.0	518.4	784.3	507.6	577.5	588.2	800.4	1018.0	1042.1	1050.2	1090.5
65°	663.4	435.1	666.1	462.0	521.1	523.8	719.8	918.6	940.1	953.5	983.1
67.5°	448.6	354.5	507.6	419.0	478.1	480.8	641.9	803.1	832.6	843.4	862.2
70°	311.6	236.4	376.0	373.3	429.7	435.1	558.7	698.3	725.2	733.3	744.0
72.5°	228.3	190.7	311.6	335.7	378.7	384.1	472.7	580.2	607.0	615.1	620.5
75°	174.6	201.4	252.5	292.8	322.3	325.0	386.8	472.7	491.5	496.9	499.6
77.5°	139.7	188.0	185.3	236.4	263.2	257.8	303.5	365.3	381.4	381.4	381.4
80°	104.8	147.7	139.7	169.2	193.4	188.0	217.6	260.5	265.9	271.3	268.6
82.5°	77.9	94.0	94.0	107.4	128.9	123.6	145.0	169.2	169.2	169.2	174.6
85°	48.3	53.7	43.0	56.4	72.5	69.8	80.6	91.3	94.0	94.0	88.6
87.5°	29.5	24.2	13.4	21.5	32.2	32.2	37.6	40.3	37.6	37.6	37.6
90°	43.6	30.2	16.7	30.2	43.6	46.9	73.7	109.4	127.3	113.2	84.9
92.5°	294.8	180.9	67.0	180.9	294.8	323.3	454.5	629.5	717.0	628.3	451.1
95°	577.7	369.2	160.8	369.2	577.7	629.9	1118.5	1770.0	2095.7	1870.1	1419.0
97.5°	645.9	462.0	278.1	462.0	645.9	691.9	1506.6	2592.9	3136.0	2993.5	2708.3
100°	702.1	535.3	368.5	535.3	702.1	743.8	1647.9	2853.3	3456.0	3466.4	3487.2
102.5°	756.8	601.2	445.6	601.2	756.8	795.8	1712.6	2935.2	3546.5	3728.2	4091.5
105°	839.9	708.1	576.3	708.1	839.9	872.8	1760.7	2944.5	3536.4	3943.7	4758.2
107.5°	956.0	833.2	710.3	833.2	956.0	986.7	1769.6	2813.4	3335.4	3903.5	5039.6
110°	1022.6	911.7	800.8	911.7	1022.6	1050.4	1756.2	2697.3	3167.9	3803.0	5073.2



TEST NUMBER: P935954

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1101.1	995.3	889.6	995.3	1101.1	1127.5	1756.8	2595.9	3015.4	3665.4	4965.4
115°	1218.7	1121.1	1023.6	1121.1	1218.7	1243.1	1773.0	2479.6	2832.9	3459.0	4711.3
117.5°	1333.1	1244.5	1155.9	1244.5	1333.1	1355.2	1805.8	2406.7	2707.2	3272.3	4402.5
120°	1399.7	1316.4	1232.9	1316.4	1399.7	1420.6	1832.7	2382.2	2656.9	3173.3	4205.9
122.5°	1476.6	1392.5	1308.3	1392.5	1476.6	1497.7	1871.3	2369.4	2618.4	3083.4	4013.3
125°	1577.4	1500.6	1424.0	1500.6	1577.4	1596.5	1923.2	2358.8	2576.5	2971.5	3761.5
127.5°	1672.6	1595.2	1517.7	1595.2	1672.6	1692.0	1975.1	2352.6	2541.3	2880.5	3558.8
130°	1734.8	1651.4	1568.0	1651.4	1734.8	1755.6	2013.0	2356.3	2527.9	2829.8	3433.7
132.5°	1786.7	1703.3	1620.0	1703.3	1786.7	1807.5	2043.7	2358.7	2516.2	2786.5	3327.1
135°	1848.9	1772.9	1697.0	1772.9	1848.9	1867.9	2077.3	2356.6	2496.1	2722.5	3175.1
137.5°	1926.2	1851.0	1775.8	1851.0	1926.2	1945.0	2127.5	2371.0	2492.7	2684.1	3066.8
140°	1979.6	1910.3	1841.1	1910.3	1979.6	1996.9	2158.2	2373.4	2481.0	2646.3	2976.9
142.5°	2019.4	1955.4	1891.3	1955.4	2019.4	2035.4	2183.9	2382.0	2481.0	2626.2	2916.6
145°	2080.1	2024.3	1968.4	2024.3	2080.1	2094.0	2217.4	2382.0	2464.3	2583.0	2820.5
147.5°	2154.1	2099.8	2045.4	2099.8	2154.1	2167.7	2266.6	2398.4	2464.3	2557.7	2744.6
150°	2194.1	2144.9	2095.7	2144.9	2194.1	2206.3	2292.3	2407.0	2464.3	2543.2	2701.1
152.5°	2222.1	2184.9	2147.7	2184.9	2222.1	2231.4	2309.0	2412.5	2464.3	2531.7	2666.4
155°	2279.8	2252.3	2224.8	2252.3	2279.8	2286.7	2345.9	2424.8	2464.3	2517.9	2625.1
157.5°	2335.2	2308.5	2281.7	2308.5	2335.2	2342.0	2382.7	2437.0	2464.3	2506.0	2589.3
160°	2361.9	2341.1	2320.2	2341.1	2361.9	2367.1	2399.5	2442.7	2464.3	2500.0	2571.4
162.5°	2389.9	2374.4	2358.7	2374.4	2389.9	2393.9	2417.3	2448.6	2464.3	2494.4	2554.8
165°	2428.9	2414.7	2400.6	2414.7	2428.9	2432.5	2443.0	2457.2	2464.3	2485.8	2529.0
167.5°	2452.5	2445.9	2439.2	2445.9	2452.5	2454.2	2463.2	2475.1	2481.0	2495.1	2523.4
170°	2477.7	2471.0	2464.3	2471.0	2477.7	2479.4	2479.9	2480.6	2481.0	2495.1	2523.4
172.5°	2480.6	2479.1	2477.7	2479.1	2480.6	2481.0	2481.0	2481.0	2481.0	2492.2	2514.6
175°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2491.1	2484.4	2481.0	2488.1	2502.2
177.5°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2492.2	2487.0	2484.4	2490.0	2501.1
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



TEST NUMBER: P935954
 CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2739.7	2731.7	2742.4	2712.9	2742.4	2731.7	2739.7	2758.5	2742.4	2753.2	2763.9
5°	2404.0	2390.6	2347.5	2312.6	2347.5	2390.6	2404.0	2460.4	2487.3	2535.6	2600.1
7.5°	2148.7	2138.0	2127.3	2105.8	2127.3	2138.0	2148.7	2164.9	2191.7	2234.7	2283.0
10°	2092.3	2095.0	2111.1	2108.5	2111.1	2095.0	2092.3	2087.0	2078.9	2087.0	2116.5
12.5°	2237.4	2261.6	2350.2	2344.8	2350.2	2261.6	2237.4	2129.9	2057.4	2044.0	2049.4
15°	2404.0	2412.1	2430.9	2433.5	2430.9	2412.1	2404.0	2360.9	2143.4	2049.4	2019.8
17.5°	2420.1	2422.8	2436.2	2436.2	2436.2	2422.8	2420.1	2401.3	2328.7	2202.5	2035.9
20°	2406.7	2412.1	2438.9	2444.3	2438.9	2412.1	2406.7	2382.5	2342.1	2296.5	2170.2
22.5°	2401.3	2412.1	2433.5	2430.9	2433.5	2412.1	2401.3	2363.6	2328.7	2296.5	2245.4
25°	2374.5	2374.5	2377.1	2379.8	2377.1	2374.5	2374.5	2344.8	2275.0	2266.9	2237.4
27.5°	2318.0	2323.3	2339.5	2336.8	2339.5	2323.3	2318.0	2307.2	2232.0	2224.0	2202.5
30°	2266.9	2261.6	2248.1	2237.4	2248.1	2261.6	2266.9	2250.8	2175.6	2154.1	2159.5
32.5°	2181.0	2167.6	2154.1	2146.1	2154.1	2167.6	2181.0	2175.6	2119.2	2089.7	2095.0
35°	2078.9	2081.6	2078.9	2070.9	2078.9	2081.6	2078.9	2084.3	2049.4	2022.5	2019.8
37.5°	2006.4	2011.8	2009.1	1998.3	2009.1	2011.8	2006.4	2001.0	1952.7	1944.6	1950.0
40°	1931.2	1933.9	1931.2	1923.1	1931.2	1933.9	1931.2	1920.4	1853.3	1856.0	1874.8
42.5°	1858.7	1856.0	1847.9	1842.6	1847.9	1856.0	1858.7	1842.6	1756.6	1748.5	1783.5
45°	1775.4	1778.1	1762.0	1753.9	1762.0	1778.1	1775.4	1764.7	1676.0	1654.5	1678.7
47.5°	1692.1	1692.1	1678.7	1670.7	1678.7	1692.1	1692.1	1678.7	1584.7	1563.2	1576.6
50°	1603.5	1600.8	1582.0	1579.3	1582.0	1600.8	1603.5	1595.4	1496.1	1477.3	1477.3
52.5°	1501.4	1501.4	1504.1	1509.5	1504.1	1501.4	1501.4	1504.1	1415.5	1396.7	1391.3
55°	1412.8	1415.5	1434.3	1439.7	1434.3	1415.5	1412.8	1412.8	1332.2	1313.4	1302.7
57.5°	1321.5	1321.5	1334.9	1334.9	1334.9	1321.5	1321.5	1316.1	1238.2	1222.1	1216.7
60°	1216.7	1222.1	1232.8	1230.2	1232.8	1222.1	1216.7	1211.4	1144.2	1133.5	1114.7
62.5°	1106.6	1112.0	1114.7	1109.3	1114.7	1112.0	1106.6	1090.5	1050.2	1042.1	1018.0
65°	991.1	996.5	999.2	993.8	999.2	996.5	991.1	983.1	953.5	940.1	918.6
67.5°	872.9	870.2	867.6	878.3	867.6	870.2	872.9	862.2	843.4	832.6	803.1
70°	752.1	752.1	749.4	754.7	749.4	752.1	752.1	744.0	733.3	725.2	698.3
72.5°	623.1	620.5	631.2	623.1	631.2	620.5	623.1	620.5	615.1	607.0	580.2
75°	496.9	502.3	496.9	505.0	496.9	502.3	496.9	499.6	496.9	491.5	472.7
77.5°	378.7	384.1	378.7	378.7	378.7	384.1	378.7	381.4	381.4	381.4	365.3
80°	268.6	265.9	265.9	263.2	265.9	265.9	268.6	268.6	271.3	265.9	260.5
82.5°	171.9	169.2	169.2	174.6	169.2	169.2	171.9	174.6	169.2	169.2	169.2
85°	94.0	96.7	91.3	91.3	91.3	96.7	94.0	88.6	94.0	94.0	91.3
87.5°	34.9	32.2	32.2	32.2	32.2	32.2	34.9	37.6	37.6	37.6	40.3
90°	63.7	63.7	63.7	63.7	63.7	63.7	63.7	84.9	113.2	127.3	109.4
92.5°	318.3	305.7	255.0	204.4	255.0	305.7	318.3	451.1	628.3	717.0	629.5
95°	1080.6	1042.2	888.8	735.4	888.8	1042.2	1080.6	1419.0	1870.1	2095.7	1770.0
97.5°	2494.4	2421.5	2129.6	1837.7	2129.6	2421.5	2494.4	2708.3	2993.5	3136.0	2592.9
100°	3502.9	3416.0	3068.3	2720.6	3068.3	3416.0	3502.9	3487.2	3466.4	3456.0	2853.3
102.5°	4364.0	4289.5	3991.7	3693.9	3991.7	4289.5	4364.0	4091.5	3728.2	3546.5	2935.2
105°	5369.1	5329.1	5169.1	5009.0	5169.1	5329.1	5369.1	4758.2	3943.7	3536.4	2944.5
107.5°	5891.8	5901.4	5940.2	5978.9	5940.2	5901.4	5891.8	5039.6	3903.5	3335.4	2813.4
110°	6025.8	6067.5	6234.3	6401.1	6234.3	6067.5	6025.8	5073.2	3803.0	3167.9	2697.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	5940.4	6004.4	6260.6	6516.7	6260.6	6004.4	5940.4	4965.4	3665.4	3015.4	2595.9
115°	5650.6	5739.4	6094.5	6449.6	6094.5	5739.4	5650.6	4711.3	3459.0	2832.9	2479.6
117.5°	5250.2	5348.7	5742.5	6136.4	5742.5	5348.7	5250.2	4402.5	3272.3	2707.2	2406.7
120°	4980.4	5076.2	5458.8	5841.6	5458.8	5076.2	4980.4	4205.9	3173.3	2656.9	2382.2
122.5°	4710.8	4805.1	5182.7	5560.2	5182.7	4805.1	4710.8	4013.3	3083.4	2618.4	2369.4
125°	4353.9	4440.8	4788.6	5136.3	4788.6	4440.8	4353.9	3761.5	2971.5	2576.5	2358.8
127.5°	4067.5	4140.8	4434.2	4727.5	4434.2	4140.8	4067.5	3558.8	2880.5	2541.3	2352.6
130°	3886.5	3954.3	4225.3	4496.3	4225.3	3954.3	3886.5	3433.7	2829.8	2527.9	2356.3
132.5°	3732.5	3793.2	4035.8	4278.5	4035.8	3793.2	3732.5	3327.1	2786.5	2516.2	2358.7
135°	3514.6	3566.9	3776.2	3985.4	3776.2	3566.9	3514.6	3175.1	2722.5	2496.1	2356.6
137.5°	3353.8	3396.6	3567.9	3739.1	3567.9	3396.6	3353.8	3066.8	2684.1	2492.7	2371.0
140°	3224.8	3264.8	3424.9	3585.0	3424.9	3264.8	3224.8	2976.9	2646.3	2481.0	2373.4
142.5°	3134.4	3168.9	3306.6	3444.3	3306.6	3168.9	3134.4	2916.6	2626.2	2481.0	2382.0
145°	2998.7	3024.7	3129.0	3233.2	3129.0	3024.7	2998.7	2820.5	2583.0	2464.3	2382.0
147.5°	2884.8	2906.4	2992.8	3079.1	2992.8	2906.4	2884.8	2744.6	2557.7	2464.3	2398.4
150°	2819.4	2836.9	2906.9	2976.9	2906.9	2836.9	2819.4	2701.1	2543.2	2464.3	2407.0
152.5°	2767.5	2780.7	2833.6	2886.4	2833.6	2780.7	2767.5	2666.4	2531.7	2464.3	2412.5
155°	2705.5	2714.3	2749.2	2784.2	2749.2	2714.3	2705.5	2625.1	2517.9	2464.3	2424.8
157.5°	2651.9	2658.1	2682.6	2707.2	2682.6	2658.1	2651.9	2589.3	2506.0	2464.3	2437.0
160°	2625.1	2628.6	2642.8	2656.9	2642.8	2628.6	2625.1	2571.4	2500.0	2464.3	2442.7
162.5°	2600.0	2603.3	2616.7	2630.2	2616.7	2603.3	2600.0	2554.8	2494.4	2464.3	2448.6
165°	2561.4	2565.0	2579.1	2593.3	2579.1	2565.0	2561.4	2529.0	2485.8	2464.3	2457.2
167.5°	2544.7	2546.2	2552.1	2558.1	2552.1	2546.2	2544.7	2523.4	2495.1	2481.0	2475.1
170°	2544.7	2544.7	2544.7	2544.7	2544.7	2544.7	2544.7	2523.4	2495.1	2481.0	2480.6
172.5°	2531.3	2530.0	2524.8	2519.6	2524.8	2530.0	2531.3	2514.6	2492.2	2481.0	2481.0
175°	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2502.2	2488.1	2481.0	2484.4
177.5°	2509.5	2507.9	2502.0	2496.1	2502.0	2507.9	2509.5	2501.1	2490.0	2484.4	2487.0
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2839.1	2839.1	2839.1	2839.1	2839.1
2.5°	2804.2	2817.6	2825.7	2836.4	2863.3
5°	2696.8	2747.8	2763.9	2804.2	2852.6
7.5°	2460.4	2616.2	2659.2	2755.9	2831.1
10°	2232.0	2387.9	2463.1	2691.4	2804.2
12.5°	2116.5	2207.8	2258.9	2578.6	2766.6
15°	2044.0	2108.5	2146.1	2428.2	2723.6
17.5°	1987.6	2033.3	2060.1	2280.4	2664.5
20°	1952.7	1974.2	1998.3	2172.9	2597.4
22.5°	1928.5	1915.1	1933.9	2097.7	2506.1
25°	1912.4	1861.4	1882.8	2038.6	2398.6
27.5°	1925.8	1813.0	1821.1	1984.9	2285.7
30°	1928.5	1753.9	1756.6	1928.5	2159.5
32.5°	1909.7	1692.1	1694.8	1858.7	2017.1
35°	1864.0	1619.6	1616.9	1778.1	1823.8
37.5°	1802.3	1541.7	1541.7	1689.5	1611.6
40°	1727.1	1463.8	1471.9	1574.0	1423.5
42.5°	1635.7	1380.6	1391.3	1420.9	1283.9
45°	1536.4	1300.0	1308.1	1200.6	1176.4
47.5°	1426.2	1216.7	1219.4	996.5	1141.5
50°	1294.6	1130.8	1120.0	854.1	1138.8
52.5°	1179.1	1036.8	1004.5	773.5	1034.1
55°	1066.3	937.4	867.6	711.8	958.9
57.5°	966.9	808.5	741.3	639.3	942.8
60°	875.6	682.2	631.2	561.4	864.9
62.5°	800.4	588.2	577.5	507.6	784.3
65°	719.8	523.8	521.1	462.0	666.1
67.5°	641.9	480.8	478.1	419.0	507.6
70°	558.7	435.1	429.7	373.3	376.0
72.5°	472.7	384.1	378.7	335.7	311.6
75°	386.8	325.0	322.3	292.8	252.5
77.5°	303.5	257.8	263.2	236.4	185.3
80°	217.6	188.0	193.4	169.2	139.7
82.5°	145.0	123.6	128.9	107.4	94.0
85°	80.6	69.8	72.5	56.4	43.0
87.5°	37.6	32.2	32.2	21.5	13.4
90°	73.7	46.9	43.6	30.2	16.7
92.5°	454.5	323.3	294.8	180.9	67.0
95°	1118.5	629.9	577.7	369.2	160.8
97.5°	1506.6	691.9	645.9	462.0	278.1
100°	1647.9	743.8	702.1	535.3	368.5
102.5°	1712.6	795.8	756.8	601.2	445.6
105°	1760.7	872.8	839.9	708.1	576.3
107.5°	1769.6	986.7	956.0	833.2	710.3
110°	1756.2	1050.4	1022.6	911.7	800.8



TEST NUMBER: P935954

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1756.8	1127.5	1101.1	995.3	889.6
115°	1773.0	1243.1	1218.7	1121.1	1023.6
117.5°	1805.8	1355.2	1333.1	1244.5	1155.9
120°	1832.7	1420.6	1399.7	1316.4	1232.9
122.5°	1871.3	1497.7	1476.6	1392.5	1308.3
125°	1923.2	1596.5	1577.4	1500.6	1424.0
127.5°	1975.1	1692.0	1672.6	1595.2	1517.7
130°	2013.0	1755.6	1734.8	1651.4	1568.0
132.5°	2043.7	1807.5	1786.7	1703.3	1620.0
135°	2077.3	1867.9	1848.9	1772.9	1697.0
137.5°	2127.5	1945.0	1926.2	1851.0	1775.8
140°	2158.2	1996.9	1979.6	1910.3	1841.1
142.5°	2183.9	2035.4	2019.4	1955.4	1891.3
145°	2217.4	2094.0	2080.1	2024.3	1968.4
147.5°	2266.6	2167.7	2154.1	2099.8	2045.4
150°	2292.3	2206.3	2194.1	2144.9	2095.7
152.5°	2309.0	2231.4	2222.1	2184.9	2147.7
155°	2345.9	2286.7	2279.8	2252.3	2224.8
157.5°	2382.7	2342.0	2335.2	2308.5	2281.7
160°	2399.5	2367.1	2361.9	2341.1	2320.2
162.5°	2417.3	2393.9	2389.9	2374.4	2358.7
165°	2443.0	2432.5	2428.9	2414.7	2400.6
167.5°	2463.2	2454.2	2452.5	2445.9	2439.2
170°	2479.9	2479.4	2477.7	2471.0	2464.3
172.5°	2481.0	2481.0	2480.6	2479.1	2477.7
175°	2491.1	2496.1	2496.1	2496.1	2496.1
177.5°	2492.2	2496.1	2496.1	2496.1	2496.1
180°	2496.1	2496.1	2496.1	2496.1	2496.1



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.32	11.04	11.42	12.13	13.65	13.17	13.89	14.27	14.99	16.50
	3H	10.79	11.43	11.90	12.53	14.07	14.51	15.15	15.62	16.26	17.79
	4H	10.97	11.58	12.09	12.69	14.22	14.95	15.56	16.08	16.67	18.21
	6H	11.08	11.64	12.21	12.75	14.30	15.24	15.80	16.37	16.91	18.46
	8H	11.08	11.61	12.21	12.74	14.28	15.31	15.84	16.44	16.97	18.51
	12H	11.04	11.55	12.18	12.67	14.24	15.35	15.85	16.48	16.97	18.54
4H	2H	11.34	11.95	12.47	13.06	14.59	13.56	14.17	14.69	15.28	16.82
	3H	12.35	12.86	13.49	13.99	15.54	15.06	15.57	16.20	16.70	18.25
	4H	12.62	13.09	13.76	14.21	15.78	15.59	16.05	16.72	17.18	18.75
	6H	12.74	13.14	13.88	14.29	15.85	15.95	16.35	17.09	17.49	19.06
	8H	12.74	13.11	13.89	14.25	15.83	16.06	16.43	17.20	17.57	19.14
	12H	12.70	13.04	13.86	14.19	15.77	16.11	16.45	17.27	17.60	19.18
8H	4H	13.07	13.44	14.21	14.58	16.16	15.70	16.07	16.84	17.21	18.79
	6H	13.32	13.63	14.49	14.81	16.39	16.13	16.44	17.30	17.62	19.20
	8H	13.36	13.63	14.54	14.79	16.39	16.29	16.56	17.46	17.72	19.31
	12H	13.34	13.58	14.52	14.73	16.36	16.38	16.62	17.56	17.78	19.41
12H	4H	13.07	13.41	14.23	14.56	16.14	15.66	15.99	16.82	17.14	18.73
	6H	13.38	13.65	14.55	14.81	16.41	16.13	16.40	17.30	17.56	19.15
	8H	13.44	13.68	14.62	14.84	16.47	16.29	16.52	17.46	17.68	19.31