

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: P934092

Luminaire Tested: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934092
REPORT IS A COMBINATION OF REPORTS P933684 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

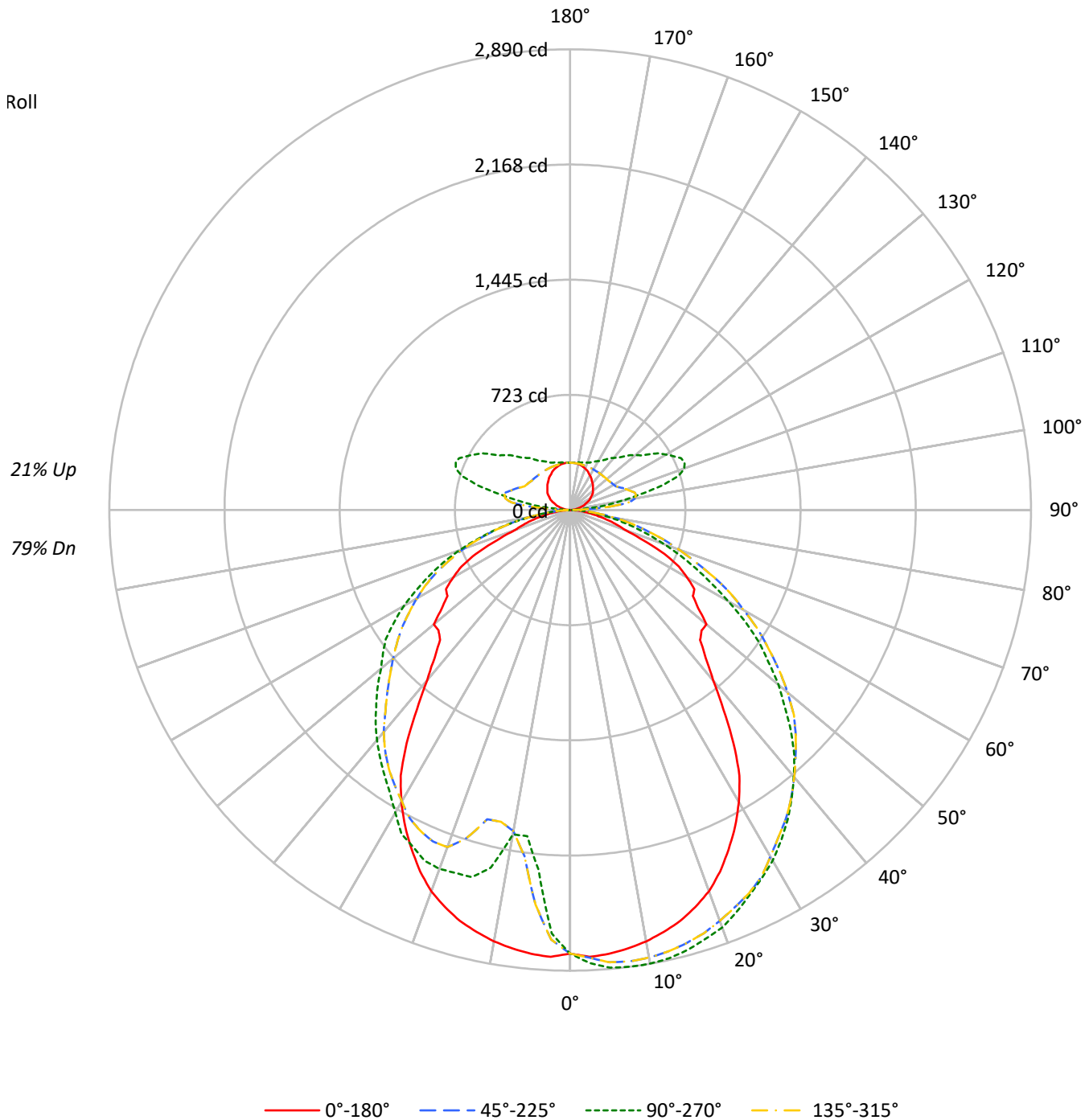
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9141.3 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 77.6
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

TEST NUMBER: P934092
CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

Luminous Intensity Polar Plot





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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	50	30	10	0
RCR																					
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79			79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67			67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56			56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47			47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41			41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35			35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27			27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24			24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22			22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20			20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12907	12907	12907	12907
5°	13004	13029	13004	10245
10°	12916	12834	12916	9175
15°	12776	12556	12776	10485
20°	12509	12227	12509	10507
25°	11962	11746	11962	10284
30°	11255	11348	11255	9795
35°	10034	10843	10034	9258
40°	8361	10249	8361	8852
45°	7471	9554	7471	8385
50°	7936	8725	7936	7917
55°	7467	7831	7467	7646
60°	7697	6651	7697	7003
65°	6978	5498	6978	6146
70°	4832	4382	4832	5151
75°	4237	3239	4237	3879
80°	3416	2141	3416	2332
85°	1961	1134	1961	963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11450 cd/sqm



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CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	2.7
10°-20°	713.0	7.8
20°-30°	1102.2	12.1
30°-40°	1315.7	14.4
40°-50°	1323.5	14.5
50°-60°	1151.6	12.6
60°-70°	816.5	8.9
70°-80°	432.0	4.7
80°-90°	108.7	1.2
90°-100°	144.9	1.6
100°-110°	381.0	4.2
110°-120°	395.0	4.3
120°-130°	316.9	3.5
130°-140°	248.6	2.7
140°-150°	190.8	2.1
150°-160°	137.4	1.5
160°-170°	84.1	0.9
170°-180°	28.4	0.3
0°-30°	2066.3	22.6
0°-40°	3382.0	37.0
0°-60°	5857.0	64.1
0°-90°	7214.2	78.9
90°-120°	920.9	10.1
90°-150°	1677.2	18.3
90°-180°	1927.0	21.1
0°-180°	9141.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2782	2782	2782	2782	2782	
5°	2795	2882	2795	2266	2795	265
15°	2669	2856	2669	2384	2669	751
25°	2350	2664	2350	2332	2350	1079
35°	1787	2377	1787	2029	1787	1106
45°	1153	1958	1153	1719	1153	923
55°	940	1445	940	1411	940	863
65°	653	871	653	974	653	624
75°	247	413	247	495	247	260
85°	42	105	42	89	42	57
90°	2	8	2	8	2	3
95°	19	88	19	88	19	21
105°	69	596	69	596	69	73
115°	122	768	122	768	122	120
125°	170	612	170	612	170	151
135°	202	475	202	475	202	156
145°	234	385	234	385	234	147
155°	265	332	265	332	265	122
165°	286	309	286	309	286	81
175°	297	299	297	299	297	28
180°	297	297	297	297	297	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9
2.5°	2805.6	2805.6	2821.4	2826.6	2826.6	2818.8	2810.9	2818.8	2842.5	2850.4	2847.8
5°	2795.1	2816.1	2845.1	2850.4	2855.6	2852.9	2847.8	2852.9	2879.3	2884.6	2887.2
7.5°	2774.1	2813.5	2850.4	2858.2	2866.2	2858.2	2855.6	2860.9	2887.2	2892.5	2892.5
10°	2747.7	2802.9	2845.1	2850.4	2858.2	2850.4	2850.4	2860.9	2887.2	2892.5	2895.1
12.5°	2710.8	2787.2	2826.6	2831.9	2842.5	2839.8	2837.2	2847.8	2874.1	2879.3	2879.3
15°	2668.8	2758.2	2795.1	2800.4	2818.8	2813.5	2813.5	2824.1	2852.9	2860.9	2858.2
17.5°	2610.8	2721.4	2763.5	2771.4	2784.5	2781.9	2784.5	2795.1	2821.4	2826.6	2829.3
20°	2545.1	2671.4	2721.4	2729.2	2742.5	2742.5	2742.5	2755.6	2781.9	2792.5	2792.5
22.5°	2455.5	2618.8	2671.4	2676.7	2692.4	2692.4	2697.7	2716.1	2739.8	2742.5	2742.5
25°	2350.3	2560.8	2605.5	2621.4	2637.2	2645.1	2652.9	2663.5	2671.4	2668.8	2671.4
27.5°	2239.7	2487.1	2545.1	2555.5	2576.7	2584.5	2595.1	2597.7	2600.4	2608.2	2602.9
30°	2116.0	2384.5	2471.4	2481.9	2516.1	2521.4	2510.8	2516.1	2529.2	2534.5	2539.8
32.5°	1976.6	2231.8	2395.1	2418.7	2450.3	2434.5	2431.8	2439.8	2460.8	2460.8	2466.1
35°	1787.0	2113.4	2324.0	2345.0	2368.7	2350.3	2360.8	2363.4	2376.7	2384.5	2381.8
37.5°	1579.2	2010.7	2250.3	2266.1	2284.5	2260.8	2276.6	2284.5	2295.0	2289.8	2289.8
40°	1394.9	1850.3	2163.4	2174.0	2189.7	2171.3	2187.1	2192.4	2197.7	2192.4	2189.7
42.5°	1258.0	1673.9	2071.3	2084.4	2074.0	2087.1	2092.4	2102.9	2095.0	2084.4	2084.4
45°	1152.8	1626.5	1971.3	1987.1	1971.3	1992.4	2000.3	2000.3	1976.6	1971.3	1968.7
47.5°	1118.6	1531.7	1871.3	1871.3	1863.4	1889.7	1902.9	1884.4	1860.7	1852.9	1852.9
50°	1115.9	1426.5	1734.4	1723.9	1760.7	1792.3	1779.2	1760.7	1742.3	1713.3	1713.3
52.5°	1013.3	1297.5	1558.0	1597.6	1655.5	1673.9	1652.9	1634.4	1602.9	1589.7	1579.2
55°	939.6	1163.3	1397.6	1476.5	1537.0	1560.7	1521.2	1502.9	1455.5	1447.6	1442.3
57.5°	923.8	968.5	1250.2	1350.2	1423.9	1421.2	1397.6	1363.3	1323.9	1315.9	1313.3
60°	847.5	700.1	1092.2	1210.6	1287.0	1279.1	1258.0	1226.5	1189.6	1184.3	1179.1
62.5°	768.5	508.0	913.2	1047.5	1155.4	1152.8	1134.3	1086.9	1060.6	1047.5	1036.9
65°	652.7	426.4	650.1	871.2	1026.5	1031.7	992.2	958.1	929.1	913.2	910.6
67.5°	497.4	347.4	439.5	726.4	902.8	897.5	847.5	831.7	794.8	786.9	771.1
70°	368.4	231.6	305.3	589.5	781.7	768.5	729.1	710.6	676.4	658.0	647.4
72.5°	305.3	186.8	223.7	458.0	658.0	642.2	608.0	586.9	558.0	542.1	531.7
75°	247.4	197.4	171.1	339.5	534.3	523.8	492.1	471.1	447.4	426.4	429.0
77.5°	181.6	184.3	136.9	250.0	423.7	408.0	389.5	363.2	352.7	331.7	331.7
80°	136.9	144.7	102.7	171.1	305.3	305.3	289.5	271.1	252.7	242.1	242.1
82.5°	92.1	92.1	76.3	107.9	208.0	200.0	189.5	184.3	173.7	168.4	168.4
85°	42.1	52.6	47.4	65.8	113.1	118.4	118.4	113.1	110.6	105.3	107.9
87.5°	13.1	23.7	29.0	36.9	57.9	60.6	63.1	63.1	63.1	65.8	65.8
90°	2.0	3.6	5.2	5.6	8.8	13.0	15.1	13.4	10.1	7.6	7.6
92.5°	8.0	21.5	35.2	38.5	54.2	75.0	85.4	74.8	53.8	37.9	36.5
95°	19.1	43.9	68.8	75.0	133.2	210.8	249.6	222.7	169.0	128.7	124.1
97.5°	33.2	55.1	76.9	82.4	179.4	308.8	373.5	356.6	322.6	297.1	288.4
100°	43.9	63.7	83.6	88.5	196.2	339.7	411.5	412.8	415.3	417.2	406.9
102.5°	53.1	71.6	90.1	94.7	204.0	349.6	422.4	444.0	487.2	519.7	510.8
105°	68.6	84.4	100.1	104.0	209.8	350.7	421.2	469.7	566.7	639.4	634.7
107.5°	84.6	99.2	113.8	117.5	210.8	335.1	397.2	464.8	600.2	701.7	702.9
110°	95.4	108.6	121.8	125.1	209.2	321.2	377.3	452.9	604.2	717.6	722.6



TEST NUMBER: P934092

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	106.0	118.5	131.1	134.3	209.3	309.2	359.2	436.5	591.3	707.5	715.1
115°	121.9	133.5	145.1	148.0	211.2	295.3	337.3	411.9	561.1	673.0	683.6
117.5°	137.6	148.2	158.8	161.5	215.1	286.6	322.4	389.7	524.3	625.3	637.0
120°	146.8	156.8	166.7	169.2	218.3	283.8	316.4	377.9	500.9	593.1	604.5
122.5°	155.8	165.8	175.9	178.4	222.9	282.2	311.8	367.2	478.0	561.0	572.3
125°	169.6	178.8	187.8	190.1	229.1	281.0	306.9	353.9	448.0	518.5	528.9
127.5°	180.8	189.9	199.2	201.5	235.3	280.2	302.7	343.1	423.9	484.5	493.2
130°	186.8	196.7	206.6	209.1	239.7	280.7	301.1	337.0	409.0	462.8	470.9
132.5°	192.9	202.9	212.7	215.2	243.4	281.0	299.7	331.9	396.2	444.5	451.8
135°	202.1	211.2	220.2	222.5	247.4	280.7	297.3	324.3	378.2	418.6	424.8
137.5°	211.5	220.4	229.4	231.7	253.4	282.4	296.9	319.7	365.2	399.4	404.5
140°	219.2	227.5	235.8	237.8	257.1	282.7	295.5	315.2	354.6	384.1	388.8
142.5°	225.3	232.9	240.5	242.4	260.2	283.8	295.5	312.8	347.4	373.3	377.4
145°	234.5	241.1	247.7	249.4	264.1	283.8	293.5	307.7	336.0	357.2	360.3
147.5°	243.6	250.1	256.6	258.2	269.9	285.7	293.5	304.7	326.9	343.5	346.1
150°	249.6	255.5	261.3	262.7	273.0	286.6	293.5	302.9	321.7	335.8	337.8
152.5°	255.8	260.2	264.6	265.7	275.0	287.3	293.5	301.5	317.5	329.6	331.2
155°	264.9	268.2	271.5	272.3	279.4	288.8	293.5	299.9	312.6	322.2	323.2
157.5°	271.7	274.9	278.1	278.9	283.8	290.2	293.5	298.5	308.4	315.8	316.5
160°	276.3	278.8	281.3	281.9	285.8	290.9	293.5	297.8	306.3	312.6	313.0
162.5°	280.9	282.8	284.6	285.1	287.8	291.6	293.5	297.1	304.3	309.7	310.1
165°	286.0	287.6	289.3	289.7	291.0	292.7	293.5	296.1	301.2	305.1	305.5
167.5°	290.5	291.3	292.1	292.3	293.4	294.8	295.5	297.2	300.6	303.1	303.3
170°	293.5	294.3	295.1	295.3	295.4	295.5	295.5	297.2	300.6	303.1	303.1
172.5°	295.1	295.3	295.5	295.5	295.5	295.5	295.5	296.8	299.5	301.5	301.3
175°	297.3	297.3	297.3	297.3	296.7	295.9	295.5	296.3	298.0	299.3	299.3
177.5°	297.3	297.3	297.3	297.3	296.8	296.2	295.9	296.6	297.9	298.9	298.7
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9
2.5°	2852.9	2845.1	2852.9	2847.8	2850.4	2842.5	2818.8	2810.9	2818.8	2826.6	2826.6
5°	2887.2	2881.9	2887.2	2887.2	2884.6	2879.3	2852.9	2847.8	2852.9	2855.6	2850.4
7.5°	2897.8	2889.8	2897.8	2892.5	2892.5	2887.2	2860.9	2855.6	2858.2	2866.2	2858.2
10°	2897.8	2889.8	2897.8	2895.1	2892.5	2887.2	2860.9	2850.4	2850.4	2858.2	2850.4
12.5°	2884.6	2879.3	2884.6	2879.3	2879.3	2874.1	2847.8	2837.2	2839.8	2842.5	2831.9
15°	2863.5	2855.6	2863.5	2858.2	2860.9	2852.9	2824.1	2813.5	2813.5	2818.8	2800.4
17.5°	2831.9	2821.4	2831.9	2829.3	2826.6	2821.4	2795.1	2784.5	2781.9	2784.5	2771.4
20°	2795.1	2787.2	2795.1	2792.5	2792.5	2781.9	2755.6	2742.5	2742.5	2742.5	2729.2
22.5°	2737.2	2729.2	2737.2	2742.5	2742.5	2739.8	2716.1	2697.7	2692.4	2692.4	2676.7
25°	2671.4	2663.5	2671.4	2671.4	2668.8	2671.4	2663.5	2652.9	2645.1	2637.2	2621.4
27.5°	2608.2	2602.9	2608.2	2602.9	2608.2	2600.4	2597.7	2595.1	2584.5	2576.7	2555.5
30°	2545.1	2539.8	2545.1	2539.8	2534.5	2529.2	2516.1	2510.8	2521.4	2516.1	2481.9
32.5°	2466.1	2460.8	2466.1	2466.1	2460.8	2460.8	2439.8	2431.8	2434.5	2450.3	2418.7
35°	2384.5	2376.7	2384.5	2381.8	2384.5	2376.7	2363.4	2360.8	2350.3	2368.7	2345.0
37.5°	2289.8	2281.8	2289.8	2289.8	2289.8	2295.0	2284.5	2276.6	2260.8	2284.5	2266.1
40°	2192.4	2181.8	2192.4	2189.7	2192.4	2197.7	2192.4	2187.1	2171.3	2189.7	2174.0
42.5°	2081.8	2079.2	2081.8	2084.4	2084.4	2095.0	2102.9	2092.4	2087.1	2074.0	2084.4
45°	1963.4	1958.1	1963.4	1968.7	1971.3	1976.6	2000.3	2000.3	1992.4	1971.3	1987.1
47.5°	1837.0	1823.9	1837.0	1852.9	1852.9	1860.7	1884.4	1902.9	1889.7	1863.4	1871.3
50°	1702.9	1705.5	1702.9	1713.3	1713.3	1742.3	1760.7	1779.2	1792.3	1760.7	1723.9
52.5°	1571.3	1568.6	1571.3	1579.2	1589.7	1602.9	1634.4	1652.9	1673.9	1655.5	1597.6
55°	1439.6	1444.9	1439.6	1442.3	1447.6	1455.5	1502.9	1521.2	1560.7	1537.0	1476.5
57.5°	1308.0	1300.2	1308.0	1313.3	1315.9	1323.9	1363.3	1397.6	1421.2	1423.9	1350.2
60°	1155.4	1144.9	1155.4	1179.1	1184.3	1189.6	1226.5	1258.0	1279.1	1287.0	1210.6
62.5°	1021.2	1002.8	1021.2	1036.9	1047.5	1060.6	1086.9	1134.3	1152.8	1155.4	1047.5
65°	879.1	871.2	879.1	910.6	913.2	929.1	958.1	992.2	1031.7	1026.5	871.2
67.5°	750.1	750.1	750.1	771.1	786.9	794.8	831.7	847.5	897.5	902.8	726.4
70°	631.7	629.1	631.7	647.4	658.0	676.4	710.6	729.1	768.5	781.7	589.5
72.5°	518.5	515.8	518.5	531.7	542.1	558.0	586.9	608.0	642.2	658.0	458.0
75°	418.5	413.2	418.5	429.0	426.4	447.4	471.1	492.1	523.8	534.3	339.5
77.5°	321.1	321.1	321.1	331.7	331.7	352.7	363.2	389.5	408.0	423.7	250.0
80°	239.5	236.8	239.5	242.1	242.1	252.7	271.1	289.5	305.3	305.3	171.1
82.5°	168.4	163.1	168.4	168.4	168.4	173.7	184.3	189.5	200.0	208.0	107.9
85°	105.3	105.3	105.3	107.9	105.3	110.6	113.1	118.4	118.4	113.1	65.8
87.5°	68.4	65.8	68.4	65.8	65.8	63.1	63.1	63.1	60.6	57.9	36.9
90°	7.6	7.6	7.6	7.6	7.6	10.1	13.4	15.1	13.0	8.8	5.6
92.5°	30.4	24.3	30.4	36.5	37.9	53.8	74.8	85.4	75.0	54.2	38.5
95°	105.9	87.5	105.9	124.1	128.7	169.0	222.7	249.6	210.8	133.2	75.0
97.5°	253.6	218.8	253.6	288.4	297.1	322.6	356.6	373.5	308.8	179.4	82.4
100°	365.4	324.0	365.4	406.9	417.2	415.3	412.8	411.5	339.7	196.2	88.5
102.5°	475.4	439.9	475.4	510.8	519.7	487.2	444.0	422.4	349.6	204.0	94.7
105°	615.6	596.5	615.6	634.7	639.4	566.7	469.7	421.2	350.7	209.8	104.0
107.5°	707.5	712.0	707.5	702.9	701.7	600.2	464.8	397.2	335.1	210.8	117.5
110°	742.4	762.3	742.4	722.6	717.6	604.2	452.9	377.3	321.2	209.2	125.1



TEST NUMBER: P934092

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	745.6	776.1	745.6	715.1	707.5	591.3	436.5	359.2	309.2	209.3	134.3
115°	725.9	768.1	725.9	683.6	673.0	561.1	411.9	337.3	295.3	211.2	148.0
117.5°	684.0	730.9	684.0	637.0	625.3	524.3	389.7	322.4	286.6	215.1	161.5
120°	650.1	695.7	650.1	604.5	593.1	500.9	377.9	316.4	283.8	218.3	169.2
122.5°	617.2	662.1	617.2	572.3	561.0	478.0	367.2	311.8	282.2	222.9	178.4
125°	570.3	611.7	570.3	528.9	518.5	448.0	353.9	306.9	281.0	229.1	190.1
127.5°	528.1	563.0	528.1	493.2	484.5	423.9	343.1	302.7	280.2	235.3	201.5
130°	503.2	535.4	503.2	470.9	462.8	409.0	337.0	301.1	280.7	239.7	209.1
132.5°	480.7	509.6	480.7	451.8	444.5	396.2	331.9	299.7	281.0	243.4	215.2
135°	449.7	474.6	449.7	424.8	418.6	378.2	324.3	297.3	280.7	247.4	222.5
137.5°	424.9	445.3	424.9	404.5	399.4	365.2	319.7	296.9	282.4	253.4	231.7
140°	407.9	427.0	407.9	388.8	384.1	354.6	315.2	295.5	282.7	257.1	237.8
142.5°	393.8	410.2	393.8	377.4	373.3	347.4	312.8	295.5	283.8	260.2	242.4
145°	372.7	385.1	372.7	360.3	357.2	336.0	307.7	293.5	283.8	264.1	249.4
147.5°	356.4	366.7	356.4	346.1	343.5	326.9	304.7	293.5	285.7	269.9	258.2
150°	346.2	354.6	346.2	337.8	335.8	321.7	302.9	293.5	286.6	273.0	262.7
152.5°	337.4	343.7	337.4	331.2	329.6	317.5	301.5	293.5	287.3	275.0	265.7
155°	327.4	331.6	327.4	323.2	322.2	312.6	299.9	293.5	288.8	279.4	272.3
157.5°	319.5	322.4	319.5	316.5	315.8	308.4	298.5	293.5	290.2	283.8	278.9
160°	314.7	316.4	314.7	313.0	312.6	306.3	297.8	293.5	290.9	285.8	281.9
162.5°	311.6	313.2	311.6	310.1	309.7	304.3	297.1	293.5	291.6	287.8	285.1
165°	307.2	308.9	307.2	305.5	305.1	301.2	296.1	293.5	292.7	291.0	289.7
167.5°	304.0	304.7	304.0	303.3	303.1	300.6	297.2	295.5	294.8	293.4	292.3
170°	303.1	303.1	303.1	303.1	303.1	300.6	297.2	295.5	295.5	295.4	295.3
172.5°	300.7	300.1	300.7	301.3	301.5	299.5	296.8	295.5	295.5	295.5	295.5
175°	299.3	299.3	299.3	299.3	299.3	298.0	296.3	295.5	295.9	296.7	297.3
177.5°	298.0	297.3	298.0	298.7	298.9	297.9	296.6	295.9	296.2	296.8	297.3
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



TEST NUMBER: P934092

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9
2.5°	2821.4	2805.6	2805.6	2779.3	2768.8	2760.9	2747.7	2708.2	2697.7	2687.2	2702.9
5°	2845.1	2816.1	2795.1	2747.7	2708.2	2692.4	2642.4	2547.7	2484.5	2437.1	2410.8
7.5°	2850.4	2813.5	2774.1	2700.4	2605.5	2563.5	2410.8	2237.1	2189.7	2147.7	2121.3
10°	2845.1	2802.9	2747.7	2637.2	2413.4	2339.8	2187.1	2074.0	2045.0	2037.1	2045.0
12.5°	2826.6	2787.2	2710.8	2526.7	2213.4	2163.4	2074.0	2008.1	2002.9	2016.0	2087.1
15°	2795.1	2758.2	2668.8	2379.2	2102.9	2066.0	2002.9	1979.2	2008.1	2100.3	2313.4
17.5°	2763.5	2721.4	2610.8	2234.5	2018.7	1992.4	1947.6	1995.0	2158.1	2281.8	2353.0
20°	2721.4	2671.4	2545.1	2129.2	1958.1	1934.4	1913.4	2126.6	2250.3	2295.0	2334.5
22.5°	2671.4	2618.8	2455.5	2055.5	1895.0	1876.6	1889.7	2200.3	2250.3	2281.8	2316.1
25°	2605.5	2560.8	2350.3	1997.6	1845.0	1823.9	1873.9	2192.4	2221.3	2229.2	2297.7
27.5°	2545.1	2487.1	2239.7	1945.0	1784.4	1776.6	1887.1	2158.1	2179.2	2187.1	2260.8
30°	2471.4	2384.5	2116.0	1889.7	1721.3	1718.6	1889.7	2116.0	2110.8	2131.8	2205.5
32.5°	2395.1	2231.8	1976.6	1821.3	1660.7	1658.1	1871.3	2052.9	2047.6	2076.6	2131.8
35°	2324.0	2113.4	1787.0	1742.3	1584.4	1587.0	1826.6	1979.2	1981.8	2008.1	2042.4
37.5°	2250.3	2010.7	1579.2	1655.5	1510.7	1510.7	1766.0	1910.7	1905.5	1913.4	1960.7
40°	2163.4	1850.3	1394.9	1542.3	1442.3	1434.3	1692.3	1837.0	1818.6	1816.0	1881.8
42.5°	2071.3	1673.9	1258.0	1392.3	1363.3	1352.8	1602.9	1747.6	1713.3	1721.3	1805.4
45°	1971.3	1626.5	1152.8	1176.5	1281.8	1273.9	1505.5	1644.9	1621.3	1642.3	1729.2
47.5°	1871.3	1531.7	1118.6	976.5	1194.9	1192.2	1397.6	1544.9	1531.7	1552.9	1644.9
50°	1734.4	1426.5	1115.9	836.9	1097.5	1108.0	1268.6	1447.6	1447.6	1466.0	1563.3
52.5°	1558.0	1297.5	1013.3	758.0	984.3	1015.9	1155.4	1363.3	1368.6	1387.0	1473.9
55°	1397.6	1163.3	939.6	697.5	850.1	918.5	1044.9	1276.5	1287.0	1305.5	1384.3
57.5°	1250.2	968.5	923.8	626.4	726.4	792.2	947.5	1192.2	1197.5	1213.3	1289.6
60°	1092.2	700.1	847.5	550.1	618.5	668.5	858.0	1092.2	1110.6	1121.2	1187.0
62.5°	913.2	508.0	768.5	497.4	565.8	576.4	784.4	997.5	1021.2	1029.1	1068.5
65°	650.1	426.4	652.7	452.7	510.5	513.2	705.4	900.1	921.2	934.3	963.2
67.5°	439.5	347.4	497.4	410.6	468.5	471.1	629.1	786.9	815.9	826.4	844.8
70°	305.3	231.6	368.4	365.8	421.1	426.4	547.4	684.3	710.6	718.5	729.1
72.5°	223.7	186.8	305.3	329.0	371.1	376.4	463.2	568.5	594.8	602.7	608.0
75°	171.1	197.4	247.4	286.8	315.8	318.4	379.0	463.2	481.7	486.9	489.5
77.5°	136.9	184.3	181.6	231.6	258.0	252.7	297.4	358.0	373.7	373.7	373.7
80°	102.7	144.7	136.9	165.8	189.5	184.3	213.1	255.3	260.6	265.8	263.1
82.5°	76.3	92.1	92.1	105.3	126.3	121.1	142.1	165.8	165.8	165.8	171.1
85°	47.4	52.6	42.1	55.3	71.0	68.4	79.0	89.4	92.1	92.1	86.9
87.5°	29.0	23.7	13.1	21.0	31.6	31.6	36.9	39.4	36.9	36.9	36.9
90°	5.2	3.6	2.0	3.6	5.2	5.6	8.8	13.0	15.1	13.4	10.1
92.5°	35.2	21.5	8.0	21.5	35.2	38.5	54.2	75.0	85.4	74.8	53.8
95°	68.8	43.9	19.1	43.9	68.8	75.0	133.2	210.8	249.6	222.7	169.0
97.5°	76.9	55.1	33.2	55.1	76.9	82.4	179.4	308.8	373.5	356.6	322.6
100°	83.6	63.7	43.9	63.7	83.6	88.5	196.2	339.7	411.5	412.8	415.3
102.5°	90.1	71.6	53.1	71.6	90.1	94.7	204.0	349.6	422.4	444.0	487.2
105°	100.1	84.4	68.6	84.4	100.1	104.0	209.8	350.7	421.2	469.7	566.7
107.5°	113.8	99.2	84.6	99.2	113.8	117.5	210.8	335.1	397.2	464.8	600.2
110°	121.8	108.6	95.4	108.6	121.8	125.1	209.2	321.2	377.3	452.9	604.2



TEST NUMBER: P934092

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	131.1	118.5	106.0	118.5	131.1	134.3	209.3	309.2	359.2	436.5	591.3
115°	145.1	133.5	121.9	133.5	145.1	148.0	211.2	295.3	337.3	411.9	561.1
117.5°	158.8	148.2	137.6	148.2	158.8	161.5	215.1	286.6	322.4	389.7	524.3
120°	166.7	156.8	146.8	156.8	166.7	169.2	218.3	283.8	316.4	377.9	500.9
122.5°	175.9	165.8	155.8	165.8	175.9	178.4	222.9	282.2	311.8	367.2	478.0
125°	187.8	178.8	169.6	178.8	187.8	190.1	229.1	281.0	306.9	353.9	448.0
127.5°	199.2	189.9	180.8	189.9	199.2	201.5	235.3	280.2	302.7	343.1	423.9
130°	206.6	196.7	186.8	196.7	206.6	209.1	239.7	280.7	301.1	337.0	409.0
132.5°	212.7	202.9	192.9	202.9	212.7	215.2	243.4	281.0	299.7	331.9	396.2
135°	220.2	211.2	202.1	211.2	220.2	222.5	247.4	280.7	297.3	324.3	378.2
137.5°	229.4	220.4	211.5	220.4	229.4	231.7	253.4	282.4	296.9	319.7	365.2
140°	235.8	227.5	219.2	227.5	235.8	237.8	257.1	282.7	295.5	315.2	354.6
142.5°	240.5	232.9	225.3	232.9	240.5	242.4	260.2	283.8	295.5	312.8	347.4
145°	247.7	241.1	234.5	241.1	247.7	249.4	264.1	283.8	293.5	307.7	336.0
147.5°	256.6	250.1	243.6	250.1	256.6	258.2	269.9	285.7	293.5	304.7	326.9
150°	261.3	255.5	249.6	255.5	261.3	262.7	273.0	286.6	293.5	302.9	321.7
152.5°	264.6	260.2	255.8	260.2	264.6	265.7	275.0	287.3	293.5	301.5	317.5
155°	271.5	268.2	264.9	268.2	271.5	272.3	279.4	288.8	293.5	299.9	312.6
157.5°	278.1	274.9	271.7	274.9	278.1	278.9	283.8	290.2	293.5	298.5	308.4
160°	281.3	278.8	276.3	278.8	281.3	281.9	285.8	290.9	293.5	297.8	306.3
162.5°	284.6	282.8	280.9	282.8	284.6	285.1	287.8	291.6	293.5	297.1	304.3
165°	289.3	287.6	286.0	287.6	289.3	289.7	291.0	292.7	293.5	296.1	301.2
167.5°	292.1	291.3	290.5	291.3	292.1	292.3	293.4	294.8	295.5	297.2	300.6
170°	295.1	294.3	293.5	294.3	295.1	295.3	295.4	295.5	295.5	297.2	300.6
172.5°	295.5	295.3	295.1	295.3	295.5	295.5	295.5	295.5	295.5	296.8	299.5
175°	297.3	297.3	297.3	297.3	297.3	297.3	296.7	295.9	295.5	296.3	298.0
177.5°	297.3	297.3	297.3	297.3	297.3	297.3	296.8	296.2	295.9	296.6	297.9
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



TEST NUMBER: P934092

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9	2781.9
2.5°	2684.5	2676.7	2687.2	2658.2	2687.2	2676.7	2684.5	2702.9	2687.2	2697.7	2708.2
5°	2355.5	2342.4	2300.3	2266.1	2300.3	2342.4	2355.5	2410.8	2437.1	2484.5	2547.7
7.5°	2105.5	2095.0	2084.4	2063.4	2084.4	2095.0	2105.5	2121.3	2147.7	2189.7	2237.1
10°	2050.3	2052.9	2068.7	2066.0	2068.7	2052.9	2050.3	2045.0	2037.1	2045.0	2074.0
12.5°	2192.4	2216.1	2303.0	2297.7	2303.0	2216.1	2192.4	2087.1	2016.0	2002.9	2008.1
15°	2355.5	2363.4	2381.8	2384.5	2381.8	2363.4	2355.5	2313.4	2100.3	2008.1	1979.2
17.5°	2371.4	2374.0	2387.1	2387.1	2387.1	2374.0	2371.4	2353.0	2281.8	2158.1	1995.0
20°	2358.2	2363.4	2389.8	2395.1	2389.8	2363.4	2358.2	2334.5	2295.0	2250.3	2126.6
22.5°	2353.0	2363.4	2384.5	2381.8	2384.5	2363.4	2353.0	2316.1	2281.8	2250.3	2200.3
25°	2326.6	2326.6	2329.2	2331.8	2329.2	2326.6	2326.6	2297.7	2229.2	2221.3	2192.4
27.5°	2271.4	2276.6	2292.4	2289.8	2292.4	2276.6	2271.4	2260.8	2187.1	2179.2	2158.1
30°	2221.3	2216.1	2202.9	2192.4	2202.9	2216.1	2221.3	2205.5	2131.8	2110.8	2116.0
32.5°	2137.1	2124.0	2110.8	2102.9	2110.8	2124.0	2137.1	2131.8	2076.6	2047.6	2052.9
35°	2037.1	2039.7	2037.1	2029.2	2037.1	2039.7	2037.1	2042.4	2008.1	1981.8	1979.2
37.5°	1966.0	1971.3	1968.7	1958.1	1968.7	1971.3	1966.0	1960.7	1913.4	1905.5	1910.7
40°	1892.3	1895.0	1892.3	1884.4	1892.3	1895.0	1892.3	1881.8	1816.0	1818.6	1837.0
42.5°	1821.3	1818.6	1810.7	1805.4	1810.7	1818.6	1821.3	1805.4	1721.3	1713.3	1747.6
45°	1739.7	1742.3	1726.6	1718.6	1726.6	1742.3	1739.7	1729.2	1642.3	1621.3	1644.9
47.5°	1658.1	1658.1	1644.9	1637.0	1644.9	1658.1	1658.1	1644.9	1552.9	1531.7	1544.9
50°	1571.3	1568.6	1550.2	1547.6	1550.2	1568.6	1571.3	1563.3	1466.0	1447.6	1447.6
52.5°	1471.2	1471.2	1473.9	1479.2	1473.9	1471.2	1471.2	1473.9	1387.0	1368.6	1363.3
55°	1384.3	1387.0	1405.5	1410.7	1405.5	1387.0	1384.3	1384.3	1305.5	1287.0	1276.5
57.5°	1294.9	1294.9	1308.0	1308.0	1308.0	1294.9	1294.9	1289.6	1213.3	1197.5	1192.2
60°	1192.2	1197.5	1208.0	1205.5	1208.0	1197.5	1192.2	1187.0	1121.2	1110.6	1092.2
62.5°	1084.3	1089.6	1092.2	1086.9	1092.2	1089.6	1084.3	1068.5	1029.1	1021.2	997.5
65°	971.2	976.5	979.1	973.8	979.1	976.5	971.2	963.2	934.3	921.2	900.1
67.5°	855.4	852.8	850.1	860.6	850.1	852.8	855.4	844.8	826.4	815.9	786.9
70°	736.9	736.9	734.3	739.5	734.3	736.9	736.9	729.1	718.5	710.6	684.3
72.5°	610.6	608.0	618.5	610.6	618.5	608.0	610.6	608.0	602.7	594.8	568.5
75°	486.9	492.1	486.9	494.8	486.9	492.1	486.9	489.5	486.9	481.7	463.2
77.5°	371.1	376.4	371.1	371.1	371.1	376.4	371.1	373.7	373.7	373.7	358.0
80°	263.1	260.6	260.6	258.0	260.6	260.6	263.1	263.1	265.8	260.6	255.3
82.5°	168.4	165.8	165.8	171.1	165.8	165.8	168.4	171.1	165.8	165.8	165.8
85°	92.1	94.7	89.4	89.4	89.4	94.7	92.1	86.9	92.1	92.1	89.4
87.5°	34.3	31.6	31.6	31.6	31.6	31.6	34.3	36.9	36.9	36.9	39.4
90°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	13.4	15.1	13.0
92.5°	37.9	36.5	30.4	24.3	30.4	36.5	37.9	53.8	74.8	85.4	75.0
95°	128.7	124.1	105.9	87.5	105.9	124.1	128.7	169.0	222.7	249.6	210.8
97.5°	297.1	288.4	253.6	218.8	253.6	288.4	297.1	322.6	356.6	373.5	308.8
100°	417.2	406.9	365.4	324.0	365.4	406.9	417.2	415.3	412.8	411.5	339.7
102.5°	519.7	510.8	475.4	439.9	475.4	510.8	519.7	487.2	444.0	422.4	349.6
105°	639.4	634.7	615.6	596.5	615.6	634.7	639.4	566.7	469.7	421.2	350.7
107.5°	701.7	702.9	707.5	712.0	707.5	702.9	701.7	600.2	464.8	397.2	335.1
110°	717.6	722.6	742.4	762.3	742.4	722.6	717.6	604.2	452.9	377.3	321.2



TEST NUMBER: P934092

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	707.5	715.1	745.6	776.1	745.6	715.1	707.5	591.3	436.5	359.2	309.2
115°	673.0	683.6	725.9	768.1	725.9	683.6	673.0	561.1	411.9	337.3	295.3
117.5°	625.3	637.0	684.0	730.9	684.0	637.0	625.3	524.3	389.7	322.4	286.6
120°	593.1	604.5	650.1	695.7	650.1	604.5	593.1	500.9	377.9	316.4	283.8
122.5°	561.0	572.3	617.2	662.1	617.2	572.3	561.0	478.0	367.2	311.8	282.2
125°	518.5	528.9	570.3	611.7	570.3	528.9	518.5	448.0	353.9	306.9	281.0
127.5°	484.5	493.2	528.1	563.0	528.1	493.2	484.5	423.9	343.1	302.7	280.2
130°	462.8	470.9	503.2	535.4	503.2	470.9	462.8	409.0	337.0	301.1	280.7
132.5°	444.5	451.8	480.7	509.6	480.7	451.8	444.5	396.2	331.9	299.7	281.0
135°	418.6	424.8	449.7	474.6	449.7	424.8	418.6	378.2	324.3	297.3	280.7
137.5°	399.4	404.5	424.9	445.3	424.9	404.5	399.4	365.2	319.7	296.9	282.4
140°	384.1	388.8	407.9	427.0	407.9	388.8	384.1	354.6	315.2	295.5	282.7
142.5°	373.3	377.4	393.8	410.2	393.8	377.4	373.3	347.4	312.8	295.5	283.8
145°	357.2	360.3	372.7	385.1	372.7	360.3	357.2	336.0	307.7	293.5	283.8
147.5°	343.5	346.1	356.4	366.7	356.4	346.1	343.5	326.9	304.7	293.5	285.7
150°	335.8	337.8	346.2	354.6	346.2	337.8	335.8	321.7	302.9	293.5	286.6
152.5°	329.6	331.2	337.4	343.7	337.4	331.2	329.6	317.5	301.5	293.5	287.3
155°	322.2	323.2	327.4	331.6	327.4	323.2	322.2	312.6	299.9	293.5	288.8
157.5°	315.8	316.5	319.5	322.4	319.5	316.5	315.8	308.4	298.5	293.5	290.2
160°	312.6	313.0	314.7	316.4	314.7	313.0	312.6	306.3	297.8	293.5	290.9
162.5°	309.7	310.1	311.6	313.2	311.6	310.1	309.7	304.3	297.1	293.5	291.6
165°	305.1	305.5	307.2	308.9	307.2	305.5	305.1	301.2	296.1	293.5	292.7
167.5°	303.1	303.3	304.0	304.7	304.0	303.3	303.1	300.6	297.2	295.5	294.8
170°	303.1	303.1	303.1	303.1	303.1	303.1	303.1	300.6	297.2	295.5	295.5
172.5°	301.5	301.3	300.7	300.1	300.7	301.3	301.5	299.5	296.8	295.5	295.5
175°	299.3	299.3	299.3	299.3	299.3	299.3	299.3	298.0	296.3	295.5	295.9
177.5°	298.9	298.7	298.0	297.3	298.0	298.7	298.9	297.9	296.6	295.9	296.2
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



TEST NUMBER: P934092

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2781.9	2781.9	2781.9	2781.9	2781.9
2.5°	2747.7	2760.9	2768.8	2779.3	2805.6
5°	2642.4	2692.4	2708.2	2747.7	2795.1
7.5°	2410.8	2563.5	2605.5	2700.4	2774.1
10°	2187.1	2339.8	2413.4	2637.2	2747.7
12.5°	2074.0	2163.4	2213.4	2526.7	2710.8
15°	2002.9	2066.0	2102.9	2379.2	2668.8
17.5°	1947.6	1992.4	2018.7	2234.5	2610.8
20°	1913.4	1934.4	1958.1	2129.2	2545.1
22.5°	1889.7	1876.6	1895.0	2055.5	2455.5
25°	1873.9	1823.9	1845.0	1997.6	2350.3
27.5°	1887.1	1776.6	1784.4	1945.0	2239.7
30°	1889.7	1718.6	1721.3	1889.7	2116.0
32.5°	1871.3	1658.1	1660.7	1821.3	1976.6
35°	1826.6	1587.0	1584.4	1742.3	1787.0
37.5°	1766.0	1510.7	1510.7	1655.5	1579.2
40°	1692.3	1434.3	1442.3	1542.3	1394.9
42.5°	1602.9	1352.8	1363.3	1392.3	1258.0
45°	1505.5	1273.9	1281.8	1176.5	1152.8
47.5°	1397.6	1192.2	1194.9	976.5	1118.6
50°	1268.6	1108.0	1097.5	836.9	1115.9
52.5°	1155.4	1015.9	984.3	758.0	1013.3
55°	1044.9	918.5	850.1	697.5	939.6
57.5°	947.5	792.2	726.4	626.4	923.8
60°	858.0	668.5	618.5	550.1	847.5
62.5°	784.4	576.4	565.8	497.4	768.5
65°	705.4	513.2	510.5	452.7	652.7
67.5°	629.1	471.1	468.5	410.6	497.4
70°	547.4	426.4	421.1	365.8	368.4
72.5°	463.2	376.4	371.1	329.0	305.3
75°	379.0	318.4	315.8	286.8	247.4
77.5°	297.4	252.7	258.0	231.6	181.6
80°	213.1	184.3	189.5	165.8	136.9
82.5°	142.1	121.1	126.3	105.3	92.1
85°	79.0	68.4	71.0	55.3	42.1
87.5°	36.9	31.6	31.6	21.0	13.1
90°	8.8	5.6	5.2	3.6	2.0
92.5°	54.2	38.5	35.2	21.5	8.0
95°	133.2	75.0	68.8	43.9	19.1
97.5°	179.4	82.4	76.9	55.1	33.2
100°	196.2	88.5	83.6	63.7	43.9
102.5°	204.0	94.7	90.1	71.6	53.1
105°	209.8	104.0	100.1	84.4	68.6
107.5°	210.8	117.5	113.8	99.2	84.6
110°	209.2	125.1	121.8	108.6	95.4



TEST NUMBER: P934092

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	209.3	134.3	131.1	118.5	106.0
115°	211.2	148.0	145.1	133.5	121.9
117.5°	215.1	161.5	158.8	148.2	137.6
120°	218.3	169.2	166.7	156.8	146.8
122.5°	222.9	178.4	175.9	165.8	155.8
125°	229.1	190.1	187.8	178.8	169.6
127.5°	235.3	201.5	199.2	189.9	180.8
130°	239.7	209.1	206.6	196.7	186.8
132.5°	243.4	215.2	212.7	202.9	192.9
135°	247.4	222.5	220.2	211.2	202.1
137.5°	253.4	231.7	229.4	220.4	211.5
140°	257.1	237.8	235.8	227.5	219.2
142.5°	260.2	242.4	240.5	232.9	225.3
145°	264.1	249.4	247.7	241.1	234.5
147.5°	269.9	258.2	256.6	250.1	243.6
150°	273.0	262.7	261.3	255.5	249.6
152.5°	275.0	265.7	264.6	260.2	255.8
155°	279.4	272.3	271.5	268.2	264.9
157.5°	283.8	278.9	278.1	274.9	271.7
160°	285.8	281.9	281.3	278.8	276.3
162.5°	287.8	285.1	284.6	282.8	280.9
165°	291.0	289.7	289.3	287.6	286.0
167.5°	293.4	292.3	292.1	291.3	290.5
170°	295.4	295.3	295.1	294.3	293.5
172.5°	295.5	295.5	295.5	295.3	295.1
175°	296.7	297.3	297.3	297.3	297.3
177.5°	296.8	297.3	297.3	297.3	297.3
180°	297.3	297.3	297.3	297.3	297.3



TEST NUMBER: P934092
 CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-2700K

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	16.03	17.23	16.69	17.91	18.69	18.87	20.06	19.53	20.74	21.53
	3H	16.53	17.61	17.21	18.30	19.12	20.24	21.32	20.91	22.00	22.83
	4H	16.74	17.75	17.43	18.45	19.29	20.70	21.72	21.39	22.42	23.25
	6H	16.87	17.81	17.58	18.52	19.37	21.00	21.94	21.71	22.65	23.50
	8H	16.88	17.78	17.60	18.51	19.36	21.09	21.98	21.81	22.71	23.56
	12H	16.87	17.72	17.59	18.44	19.32	21.14	21.99	21.87	22.72	23.60
4H	2H	17.10	18.12	17.80	18.82	19.65	19.31	20.33	20.01	21.03	21.86
	3H	18.16	19.01	18.87	19.74	20.60	20.85	21.70	21.56	22.44	23.29
	4H	18.45	19.22	19.18	19.96	20.84	21.40	22.17	22.12	22.91	23.79
	6H	18.59	19.26	19.34	20.03	20.92	21.78	22.45	22.53	23.21	24.11
	8H	18.61	19.23	19.36	19.99	20.90	21.90	22.52	22.65	23.28	24.19
	12H	18.59	19.15	19.36	19.94	20.84	21.97	22.53	22.74	23.32	24.23
8H	4H	18.93	19.55	19.68	20.32	21.22	21.55	22.17	22.30	22.93	23.84
	6H	19.21	19.72	19.99	20.53	21.43	22.00	22.52	22.78	23.32	24.23
	8H	19.25	19.71	20.05	20.52	21.44	22.16	22.62	22.95	23.42	24.34
	12H	19.25	19.66	20.05	20.45	21.43	22.27	22.68	23.07	23.47	24.45
12H	4H	18.95	19.51	19.73	20.30	21.21	21.53	22.09	22.30	22.87	23.78
	6H	19.27	19.73	20.06	20.54	21.46	22.00	22.46	22.79	23.26	24.19
	8H	19.35	19.76	20.15	20.55	21.53	22.18	22.58	22.97	23.38	24.36