

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: P934189

Luminaire Tested: SQ4-FA-025U-125D-B2750-1D-UNV-W2A-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934189
REPORT IS A COMBINATION OF REPORTS P933687 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-B2750-1D-UNV-W2A-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

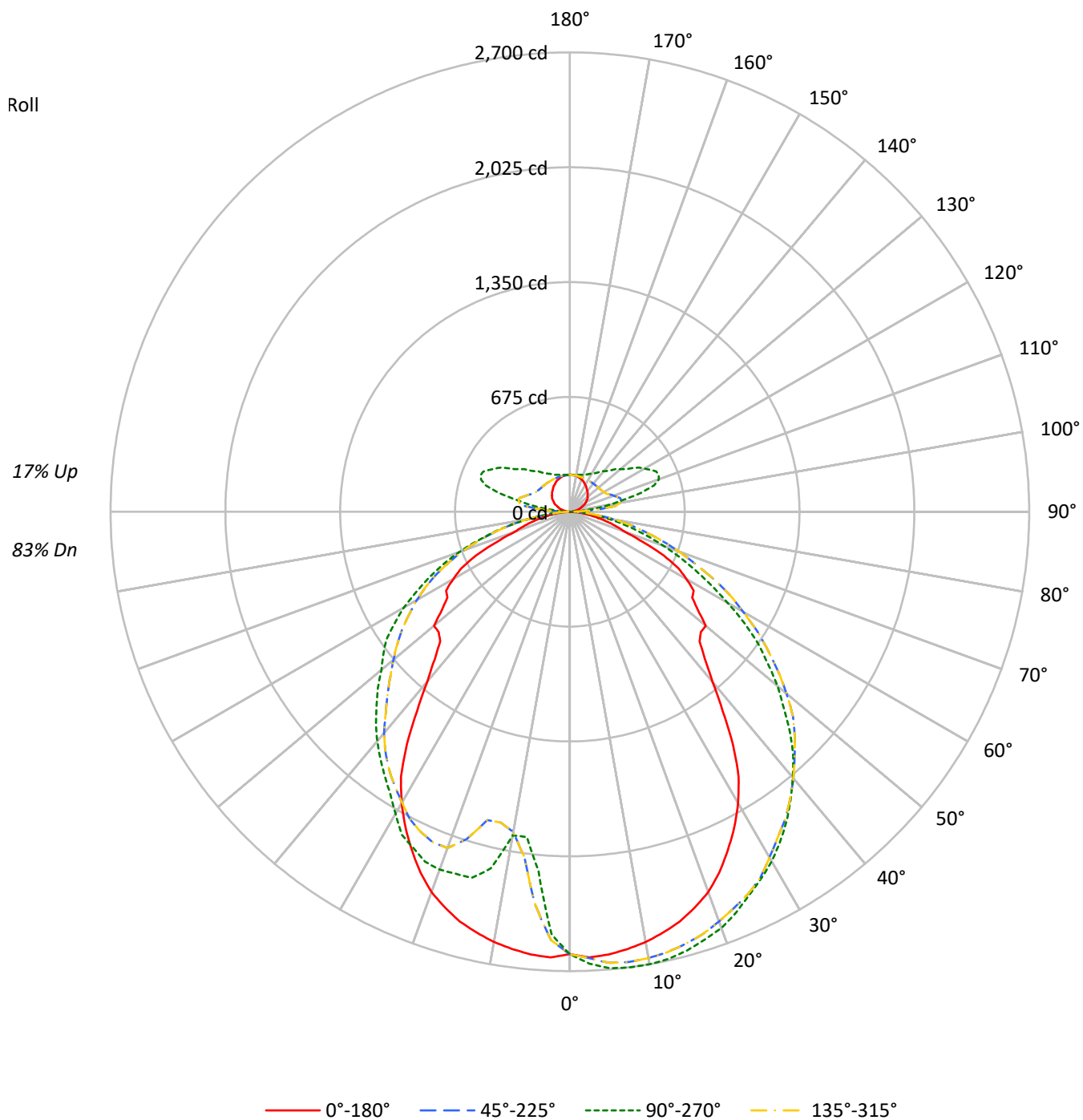
Lumens per Lamp: N/A
Luminaire Lumens: 8147.3 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.4
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: P934189

CATALOG NUMBER: SQ4-FA-025U-125D-B2750-1D-UNV-W2A-W-6-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P934189

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16082	16082	16082	16082
5°	16196	16233	16196	12765
10°	16082	15991	16082	11432
15°	15901	15645	15901	13063
20°	15562	15234	15562	13091
25°	14875	14636	14875	12813
30°	13990	14139	13990	12205
35°	12466	13510	12466	11535
40°	10381	12770	10381	11030
45°	9269	11904	9269	10448
50°	9840	10870	9840	9864
55°	9249	9757	9249	9526
60°	9524	8287	9524	8726
65°	8621	6851	8621	7658
70°	5955	5459	5955	6419
75°	5202	4035	5202	4833
80°	4163	2667	4163	2905
85°	2343	1413	2343	1201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 14216 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	2.9
10°-20°	666.3	8.2
20°-30°	1029.9	12.6
30°-40°	1229.5	15.1
40°-50°	1236.7	15.2
50°-60°	1076.1	13.2
60°-70°	763.0	9.4
70°-80°	403.7	5.0
80°-90°	101.4	1.2
90°-100°	105.7	1.3
100°-110°	278.0	3.4
110°-120°	288.2	3.5
120°-130°	231.2	2.8
130°-140°	181.4	2.2
140°-150°	139.2	1.7
150°-160°	100.3	1.2
160°-170°	61.4	0.8
170°-180°	20.7	0.3
0°-30°	1930.9	23.7
0°-40°	3160.4	38.8
0°-60°	5473.2	67.2
0°-90°	6741.2	82.7
90°-120°	671.9	8.2
90°-150°	1223.8	15.0
90°-180°	1406.0	17.3
0°-180°	8147.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2600	2600	2600	2600	2600	
5°	2612	2693	2612	2118	2612	248
15°	2494	2668	2494	2228	2494	702
25°	2196	2489	2196	2179	2196	1008
35°	1670	2221	1670	1896	1670	1033
45°	1077	1830	1077	1606	1077	863
55°	878	1350	878	1318	878	807
65°	610	814	610	910	610	583
75°	231	386	231	462	231	243
85°	39	98	39	84	39	53
90°	2	6	2	6	2	3
95°	14	64	14	64	14	16
105°	50	435	50	435	50	53
115°	89	560	89	560	89	88
125°	124	446	124	446	124	110
135°	148	346	148	346	148	114
145°	171	281	171	281	171	107
155°	193	242	193	242	193	89
165°	209	225	209	225	209	59
175°	217	218	217	218	217	21
180°	217	217	217	217	217	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	2621.7	2621.7	2636.6	2641.4	2641.4	2634.0	2626.7	2634.0	2656.2	2663.6	2661.1
5°	2611.9	2631.6	2658.6	2663.6	2668.5	2666.0	2661.1	2666.0	2690.6	2695.6	2698.0
7.5°	2592.3	2629.1	2663.6	2671.0	2678.3	2671.0	2668.5	2673.4	2698.0	2702.9	2702.9
10°	2567.7	2619.3	2658.6	2663.6	2671.0	2663.6	2663.6	2673.4	2698.0	2702.9	2705.4
12.5°	2533.3	2604.6	2641.4	2646.3	2656.2	2653.7	2651.3	2661.1	2685.7	2690.6	2690.6
15°	2493.9	2577.4	2611.9	2616.9	2634.0	2629.1	2629.1	2639.0	2666.0	2673.4	2671.0
17.5°	2439.7	2543.0	2582.4	2589.7	2602.1	2599.6	2602.1	2611.9	2636.6	2641.4	2643.9
20°	2378.3	2496.3	2543.0	2550.4	2562.7	2562.7	2562.7	2575.0	2599.6	2609.4	2609.4
22.5°	2294.7	2447.1	2496.3	2501.3	2516.0	2516.0	2521.0	2538.1	2560.3	2562.7	2562.7
25°	2196.2	2393.0	2434.8	2449.6	2464.4	2471.7	2479.1	2489.0	2496.3	2493.9	2496.3
27.5°	2092.9	2324.1	2378.3	2388.1	2407.8	2415.1	2425.0	2427.4	2430.0	2437.3	2432.4
30°	1977.3	2228.2	2309.4	2319.2	2351.2	2356.1	2346.3	2351.2	2363.5	2368.4	2373.4
32.5°	1847.0	2085.6	2238.1	2260.2	2289.7	2275.0	2272.5	2279.9	2299.5	2299.5	2304.5
35°	1670.0	1974.9	2171.7	2191.4	2213.5	2196.2	2206.1	2208.5	2220.9	2228.2	2225.8
37.5°	1475.7	1879.0	2102.8	2117.6	2134.8	2112.6	2127.4	2134.8	2144.6	2139.7	2139.7
40°	1303.5	1729.0	2021.6	2031.5	2046.2	2029.0	2043.8	2048.8	2053.6	2048.8	2046.2
42.5°	1175.6	1564.2	1935.6	1947.9	1938.0	1950.3	1955.2	1965.1	1957.7	1947.9	1947.9
45°	1077.2	1520.0	1842.1	1856.9	1842.1	1861.8	1869.2	1869.2	1847.0	1842.1	1839.6
47.5°	1045.3	1431.4	1748.7	1748.7	1741.3	1765.9	1778.2	1761.0	1738.8	1731.4	1731.4
50°	1042.8	1333.1	1620.7	1611.0	1645.4	1674.9	1662.6	1645.4	1628.1	1601.1	1601.1
52.5°	946.9	1212.5	1456.0	1492.8	1547.0	1564.2	1544.5	1527.3	1497.8	1485.5	1475.7
55°	878.0	1087.0	1305.9	1379.8	1436.3	1458.4	1421.5	1404.4	1360.1	1352.7	1347.8
57.5°	863.3	905.0	1168.2	1261.7	1330.5	1328.1	1305.9	1273.9	1237.1	1229.8	1227.2
60°	792.0	654.2	1020.6	1131.3	1202.6	1195.3	1175.6	1146.1	1111.6	1106.8	1101.8
62.5°	718.1	474.7	853.4	978.9	1079.7	1077.2	1060.0	1015.7	991.2	978.9	969.0
65°	610.0	398.5	607.5	814.1	959.2	964.1	927.2	895.3	868.2	853.4	851.0
67.5°	464.8	324.6	410.8	678.8	843.6	838.7	792.0	777.1	742.7	735.4	720.6
70°	344.3	216.5	285.3	550.9	730.4	718.1	681.3	664.1	632.1	614.8	605.0
72.5°	285.3	174.6	209.0	427.9	614.8	600.1	568.1	548.5	521.4	506.7	496.8
75°	231.2	184.5	159.9	317.3	499.2	489.4	459.9	440.2	418.1	398.5	400.9
77.5°	169.7	172.2	127.9	233.6	395.9	381.2	364.0	339.4	329.6	309.9	309.9
80°	127.9	135.3	95.9	159.9	285.3	285.3	270.5	253.3	236.1	226.3	226.3
82.5°	86.0	86.0	71.3	100.9	194.3	186.9	177.0	172.2	162.3	157.4	157.4
85°	39.3	49.2	44.3	61.5	105.7	110.7	110.7	105.7	103.3	98.4	100.9
87.5°	12.3	22.1	27.0	34.4	54.1	56.6	59.0	59.0	59.0	61.5	61.5
90°	1.5	2.6	3.8	4.1	6.4	9.5	11.0	9.8	7.4	5.5	5.5
92.5°	5.8	15.7	25.6	28.1	39.5	54.7	62.3	54.6	39.1	27.6	26.6
95°	14.0	32.1	50.2	54.7	97.2	153.8	182.1	162.5	123.3	93.9	90.6
97.5°	24.1	40.1	56.1	60.1	130.9	225.3	272.5	260.1	235.4	216.8	210.5
100°	32.1	46.5	61.0	64.6	143.2	248.0	300.3	301.2	303.0	304.4	296.8
102.5°	38.8	52.3	65.8	69.2	148.8	255.0	308.1	323.9	355.5	379.3	372.8
105°	50.1	61.5	73.0	75.9	153.0	255.8	307.3	342.6	413.5	466.6	463.1
107.5°	61.7	72.4	83.0	85.8	153.8	244.5	289.8	339.2	438.0	512.0	512.9
110°	69.6	79.3	88.9	91.3	152.6	234.4	275.3	330.5	440.9	523.6	527.2

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	77.3	86.5	95.6	98.0	152.6	225.6	262.0	318.5	431.5	516.2	521.7
115°	89.0	97.5	105.9	108.0	154.1	215.4	246.1	300.6	409.4	491.0	498.7
117.5°	100.5	108.1	115.8	117.7	156.9	209.1	235.3	284.4	382.6	456.2	464.7
120°	107.2	114.4	121.6	123.5	159.3	207.1	230.9	275.8	365.5	432.9	441.2
122.5°	113.7	121.0	128.3	130.1	162.6	205.9	227.5	267.9	348.7	409.4	417.6
125°	123.7	130.4	137.1	138.8	167.2	205.0	223.9	258.2	326.9	378.4	386.0
127.5°	131.9	138.6	145.4	147.0	171.6	204.5	220.8	250.3	309.3	353.5	359.9
130°	136.2	143.5	150.7	152.5	174.9	204.7	219.7	245.9	298.4	337.7	343.6
132.5°	140.8	148.1	155.2	157.1	177.6	205.0	218.7	242.2	289.1	324.3	329.6
135°	147.5	154.1	160.7	162.3	180.5	204.8	217.0	236.6	276.0	305.4	310.0
137.5°	154.4	160.9	167.3	169.0	184.9	206.1	216.7	233.3	266.6	291.5	295.2
140°	160.0	166.0	172.0	173.5	187.6	206.3	215.6	229.9	258.7	280.2	283.7
142.5°	164.3	169.9	175.5	176.8	189.7	207.0	215.6	228.2	253.5	272.4	275.4
145°	171.0	175.9	180.7	182.0	192.7	207.0	214.1	224.4	245.1	260.6	262.8
147.5°	177.7	182.5	187.2	188.4	197.0	208.4	214.1	222.3	238.5	250.7	252.5
150°	182.1	186.3	190.7	191.8	199.2	209.2	214.1	221.0	234.7	245.0	246.5
152.5°	186.6	189.8	193.1	193.9	200.7	209.7	214.1	220.0	231.7	240.5	241.7
155°	193.3	195.7	198.2	198.7	203.9	210.8	214.1	218.8	228.1	235.1	235.9
157.5°	198.3	200.6	202.9	203.5	207.1	211.8	214.1	217.7	225.0	230.4	231.0
160°	201.6	203.5	205.2	205.7	208.5	212.3	214.1	217.2	223.5	228.1	228.4
162.5°	204.9	206.3	207.7	208.0	210.1	212.8	214.1	216.8	222.0	226.0	226.3
165°	208.6	209.8	211.0	211.3	212.3	213.6	214.1	216.0	219.8	222.6	222.9
167.5°	211.9	212.5	213.1	213.3	214.1	215.1	215.6	216.9	219.3	221.1	221.2
170°	214.1	214.7	215.3	215.4	215.5	215.6	215.6	216.9	219.3	221.1	221.1
172.5°	215.3	215.4	215.6	215.6	215.6	215.6	215.6	216.6	218.5	220.0	219.9
175°	217.0	217.0	217.0	217.0	216.5	215.9	215.6	216.2	217.4	218.4	218.4
177.5°	217.0	217.0	217.0	217.0	216.6	216.1	215.9	216.4	217.3	218.1	218.0
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	2666.0	2658.6	2666.0	2661.1	2663.6	2656.2	2634.0	2626.7	2634.0	2641.4	2641.4
5°	2698.0	2693.0	2698.0	2698.0	2695.6	2690.6	2666.0	2661.1	2666.0	2668.5	2663.6
7.5°	2707.9	2700.5	2707.9	2702.9	2702.9	2698.0	2673.4	2668.5	2671.0	2678.3	2671.0
10°	2707.9	2700.5	2707.9	2705.4	2702.9	2698.0	2673.4	2663.6	2663.6	2671.0	2663.6
12.5°	2695.6	2690.6	2695.6	2690.6	2690.6	2685.7	2661.1	2651.3	2653.7	2656.2	2646.3
15°	2675.9	2668.5	2675.9	2671.0	2673.4	2666.0	2639.0	2629.1	2629.1	2634.0	2616.9
17.5°	2646.3	2636.6	2646.3	2643.9	2641.4	2636.6	2611.9	2602.1	2599.6	2602.1	2589.7
20°	2611.9	2604.6	2611.9	2609.4	2609.4	2599.6	2575.0	2562.7	2562.7	2562.7	2550.4
22.5°	2557.8	2550.4	2557.8	2562.7	2562.7	2560.3	2538.1	2521.0	2516.0	2516.0	2501.3
25°	2496.3	2489.0	2496.3	2496.3	2493.9	2496.3	2489.0	2479.1	2471.7	2464.4	2449.6
27.5°	2437.3	2432.4	2437.3	2432.4	2437.3	2430.0	2427.4	2425.0	2415.1	2407.8	2388.1
30°	2378.3	2373.4	2378.3	2373.4	2368.4	2363.5	2351.2	2346.3	2356.1	2351.2	2319.2
32.5°	2304.5	2299.5	2304.5	2304.5	2299.5	2299.5	2279.9	2272.5	2275.0	2289.7	2260.2
35°	2228.2	2220.9	2228.2	2225.8	2228.2	2220.9	2208.5	2206.1	2196.2	2213.5	2191.4
37.5°	2139.7	2132.3	2139.7	2139.7	2139.7	2144.6	2134.8	2127.4	2112.6	2134.8	2117.6
40°	2048.8	2038.9	2048.8	2046.2	2048.8	2053.6	2048.8	2043.8	2029.0	2046.2	2031.5
42.5°	1945.5	1942.9	1945.5	1947.9	1947.9	1957.7	1965.1	1955.2	1950.3	1938.0	1947.9
45°	1834.7	1829.9	1834.7	1839.6	1842.1	1847.0	1869.2	1869.2	1861.8	1842.1	1856.9
47.5°	1716.7	1704.4	1716.7	1731.4	1731.4	1738.8	1761.0	1778.2	1765.9	1741.3	1748.7
50°	1591.3	1593.7	1591.3	1601.1	1601.1	1628.1	1645.4	1662.6	1674.9	1645.4	1611.0
52.5°	1468.3	1465.8	1468.3	1475.7	1485.5	1497.8	1527.3	1544.5	1564.2	1547.0	1492.8
55°	1345.3	1350.2	1345.3	1347.8	1352.7	1360.1	1404.4	1421.5	1458.4	1436.3	1379.8
57.5°	1222.3	1214.9	1222.3	1227.2	1229.8	1237.1	1273.9	1305.9	1328.1	1330.5	1261.7
60°	1079.7	1069.9	1079.7	1101.8	1106.8	1111.6	1146.1	1175.6	1195.3	1202.6	1131.3
62.5°	954.3	937.0	954.3	969.0	978.9	991.2	1015.7	1060.0	1077.2	1079.7	978.9
65°	821.4	814.1	821.4	851.0	853.4	868.2	895.3	927.2	964.1	959.2	814.1
67.5°	701.0	701.0	701.0	720.6	735.4	742.7	777.1	792.0	838.7	843.6	678.8
70°	590.2	587.8	590.2	605.0	614.8	632.1	664.1	681.3	718.1	730.4	550.9
72.5°	484.5	482.1	484.5	496.8	506.7	521.4	548.5	568.1	600.1	614.8	427.9
75°	391.1	386.1	391.1	400.9	398.5	418.1	440.2	459.9	489.4	499.2	317.3
77.5°	300.1	300.1	300.1	309.9	309.9	329.6	339.4	364.0	381.2	395.9	233.6
80°	223.8	221.3	223.8	226.3	226.3	236.1	253.3	270.5	285.3	285.3	159.9
82.5°	157.4	152.5	157.4	157.4	157.4	162.3	172.2	177.0	186.9	194.3	100.9
85°	98.4	98.4	98.4	100.9	98.4	103.3	105.7	110.7	110.7	105.7	61.5
87.5°	64.0	61.5	64.0	61.5	61.5	59.0	59.0	59.0	56.6	54.1	34.4
90°	5.5	5.5	5.5	5.5	5.5	7.4	9.8	11.0	9.5	6.4	4.1
92.5°	22.1	17.7	22.1	26.6	27.6	39.1	54.6	62.3	54.7	39.5	28.1
95°	77.2	64.0	77.2	90.6	93.9	123.3	162.5	182.1	153.8	97.2	54.7
97.5°	185.1	159.7	185.1	210.5	216.8	235.4	260.1	272.5	225.3	130.9	60.1
100°	266.7	236.4	266.7	296.8	304.4	303.0	301.2	300.3	248.0	143.2	64.6
102.5°	346.9	321.0	346.9	372.8	379.3	355.5	323.9	308.1	255.0	148.8	69.2
105°	449.2	435.3	449.2	463.1	466.6	413.5	342.6	307.3	255.8	153.0	75.9
107.5°	516.2	519.6	516.2	512.9	512.0	438.0	339.2	289.8	244.5	153.8	85.8
110°	541.8	556.3	541.8	527.2	523.6	440.9	330.5	275.3	234.4	152.6	91.3

TEST NUMBER: P934189

CATALOG NUMBER: SQ4-FA-025U-125D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	544.0	566.3	544.0	521.7	516.2	431.5	318.5	262.0	225.6	152.6	98.0
115°	529.6	560.5	529.6	498.7	491.0	409.4	300.6	246.1	215.4	154.1	108.0
117.5°	499.0	533.2	499.0	464.7	456.2	382.6	284.4	235.3	209.1	156.9	117.7
120°	474.4	507.7	474.4	441.2	432.9	365.5	275.8	230.9	207.1	159.3	123.5
122.5°	450.4	483.1	450.4	417.6	409.4	348.7	267.9	227.5	205.9	162.6	130.1
125°	416.1	446.3	416.1	386.0	378.4	326.9	258.2	223.9	205.0	167.2	138.8
127.5°	385.4	410.9	385.4	359.9	353.5	309.3	250.3	220.8	204.5	171.6	147.0
130°	367.2	390.7	367.2	343.6	337.7	298.4	245.9	219.7	204.7	174.9	152.5
132.5°	350.7	371.8	350.7	329.6	324.3	289.1	242.2	218.7	205.0	177.6	157.1
135°	328.1	346.3	328.1	310.0	305.4	276.0	236.6	217.0	204.8	180.5	162.3
137.5°	310.1	324.9	310.1	295.2	291.5	266.6	233.3	216.7	206.1	184.9	169.0
140°	297.6	311.5	297.6	283.7	280.2	258.7	229.9	215.6	206.3	187.6	173.5
142.5°	287.3	299.3	287.3	275.4	272.4	253.5	228.2	215.6	207.0	189.7	176.8
145°	271.9	281.0	271.9	262.8	260.6	245.1	224.4	214.1	207.0	192.7	182.0
147.5°	260.1	267.5	260.1	252.5	250.7	238.5	222.3	214.1	208.4	197.0	188.4
150°	252.6	258.7	252.6	246.5	245.0	234.7	221.0	214.1	209.2	199.2	191.8
152.5°	246.2	250.9	246.2	241.7	240.5	231.7	220.0	214.1	209.7	200.7	193.9
155°	238.9	242.0	238.9	235.9	235.1	228.1	218.8	214.1	210.8	203.9	198.7
157.5°	233.1	235.3	233.1	231.0	230.4	225.0	217.7	214.1	211.8	207.1	203.5
160°	229.7	230.9	229.7	228.4	228.1	223.5	217.2	214.1	212.3	208.5	205.7
162.5°	227.4	228.6	227.4	226.3	226.0	222.0	216.8	214.1	212.8	210.1	208.0
165°	224.1	225.4	224.1	222.9	222.6	219.8	216.0	214.1	213.6	212.3	211.3
167.5°	221.8	222.3	221.8	221.2	221.1	219.3	216.9	215.6	215.1	214.1	213.3
170°	221.1	221.1	221.1	221.1	221.1	219.3	216.9	215.6	215.6	215.5	215.4
172.5°	219.4	219.0	219.4	219.9	220.0	218.5	216.6	215.6	215.6	215.6	215.6
175°	218.4	218.4	218.4	218.4	218.4	217.4	216.2	215.6	215.9	216.5	217.0
177.5°	217.4	217.0	217.4	218.0	218.1	217.3	216.4	215.9	216.1	216.6	217.0
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0

TEST NUMBER: P934189

CATALOG NUMBER: SQ4-FA-025U-125D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	2636.6	2621.7	2621.7	2597.2	2587.3	2580.0	2567.7	2530.7	2521.0	2511.1	2525.8
5°	2658.6	2631.6	2611.9	2567.7	2530.7	2516.0	2469.3	2380.7	2321.7	2277.4	2252.8
7.5°	2663.6	2629.1	2592.3	2523.4	2434.8	2395.5	2252.8	2090.5	2046.2	2006.9	1982.3
10°	2658.6	2619.3	2567.7	2464.4	2255.3	2186.5	2043.8	1938.0	1911.0	1903.6	1911.0
12.5°	2641.4	2604.6	2533.3	2361.1	2068.4	2021.6	1938.0	1876.6	1871.6	1883.9	1950.3
15°	2611.9	2577.4	2493.9	2223.4	1965.1	1930.6	1871.6	1849.5	1876.6	1962.6	2161.8
17.5°	2582.4	2543.0	2439.7	2088.1	1886.4	1861.8	1820.0	1864.3	2016.8	2132.3	2198.8
20°	2543.0	2496.3	2378.3	1989.6	1829.9	1807.7	1788.0	1987.2	2102.8	2144.6	2181.5
22.5°	2496.3	2447.1	2294.7	1920.8	1770.8	1753.6	1765.9	2056.1	2102.8	2132.3	2164.3
25°	2434.8	2393.0	2196.2	1866.7	1724.0	1704.4	1751.1	2048.8	2075.8	2083.2	2147.1
27.5°	2378.3	2324.1	2092.9	1817.6	1667.5	1660.1	1763.4	2016.8	2036.5	2043.8	2112.6
30°	2309.4	2228.2	1977.3	1765.9	1608.4	1606.0	1765.9	1977.3	1972.5	1992.2	2061.0
32.5°	2238.1	2085.6	1847.0	1702.0	1552.0	1549.4	1748.7	1918.3	1913.5	1940.5	1992.2
35°	2171.7	1974.9	1670.0	1628.1	1480.5	1483.1	1706.9	1849.5	1852.0	1876.6	1908.5
37.5°	2102.8	1879.0	1475.7	1547.0	1411.7	1411.7	1650.3	1785.6	1780.6	1788.0	1832.3
40°	2021.6	1729.0	1303.5	1441.2	1347.8	1340.4	1581.4	1716.7	1699.4	1697.0	1758.5
42.5°	1935.6	1564.2	1175.6	1301.1	1273.9	1264.2	1497.8	1633.1	1601.1	1608.4	1687.1
45°	1842.1	1520.0	1077.2	1099.3	1197.8	1190.3	1406.8	1537.1	1515.0	1534.7	1615.8
47.5°	1748.7	1431.4	1045.3	912.4	1116.6	1114.2	1305.9	1443.7	1431.4	1451.1	1537.1
50°	1620.7	1333.1	1042.8	782.1	1025.6	1035.4	1185.5	1352.7	1352.7	1369.9	1460.9
52.5°	1456.0	1212.5	946.9	708.3	919.9	949.3	1079.7	1273.9	1278.9	1296.1	1377.2
55°	1305.9	1087.0	878.0	651.7	794.4	858.3	976.4	1192.8	1202.6	1219.9	1293.6
57.5°	1168.2	905.0	863.3	585.4	678.8	740.3	885.4	1114.2	1119.0	1133.8	1205.1
60°	1020.6	654.2	792.0	514.1	578.0	624.7	801.8	1020.6	1037.9	1047.7	1109.2
62.5°	853.4	474.7	718.1	464.8	528.8	538.6	733.0	932.1	954.3	961.6	998.6
65°	607.5	398.5	610.0	423.1	477.1	479.6	659.1	841.1	860.8	873.1	900.2
67.5°	410.8	324.6	464.8	383.6	437.8	440.2	587.8	735.4	762.4	772.3	789.4
70°	285.3	216.5	344.3	341.9	393.5	398.5	511.5	639.4	664.1	671.4	681.3
72.5°	209.0	174.6	285.3	307.5	346.8	351.7	432.9	531.2	555.8	563.2	568.1
75°	159.9	184.5	231.2	268.1	295.2	297.6	354.2	432.9	450.1	455.0	457.5
77.5°	127.9	172.2	169.7	216.5	241.0	236.1	277.9	334.5	349.2	349.2	349.2
80°	95.9	135.3	127.9	154.9	177.0	172.2	199.2	238.6	243.5	248.4	245.9
82.5°	71.3	86.0	86.0	98.4	118.0	113.2	132.8	154.9	154.9	154.9	159.9
85°	44.3	49.2	39.3	51.6	66.4	64.0	73.7	83.6	86.0	86.0	81.2
87.5°	27.0	22.1	12.3	19.7	29.6	29.6	34.4	36.9	34.4	34.4	34.4
90°	3.8	2.6	1.5	2.6	3.8	4.1	6.4	9.5	11.0	9.8	7.4
92.5°	25.6	15.7	5.8	15.7	25.6	28.1	39.5	54.7	62.3	54.6	39.1
95°	50.2	32.1	14.0	32.1	50.2	54.7	97.2	153.8	182.1	162.5	123.3
97.5°	56.1	40.1	24.1	40.1	56.1	60.1	130.9	225.3	272.5	260.1	235.4
100°	61.0	46.5	32.1	46.5	61.0	64.6	143.2	248.0	300.3	301.2	303.0
102.5°	65.8	52.3	38.8	52.3	65.8	69.2	148.8	255.0	308.1	323.9	355.5
105°	73.0	61.5	50.1	61.5	73.0	75.9	153.0	255.8	307.3	342.6	413.5
107.5°	83.0	72.4	61.7	72.4	83.0	85.8	153.8	244.5	289.8	339.2	438.0
110°	88.9	79.3	69.6	79.3	88.9	91.3	152.6	234.4	275.3	330.5	440.9

TEST NUMBER: P934189

CATALOG NUMBER: SQ4-FA-025U-125D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	95.6	86.5	77.3	86.5	95.6	98.0	152.6	225.6	262.0	318.5	431.5
115°	105.9	97.5	89.0	97.5	105.9	108.0	154.1	215.4	246.1	300.6	409.4
117.5°	115.8	108.1	100.5	108.1	115.8	117.7	156.9	209.1	235.3	284.4	382.6
120°	121.6	114.4	107.2	114.4	121.6	123.5	159.3	207.1	230.9	275.8	365.5
122.5°	128.3	121.0	113.7	121.0	128.3	130.1	162.6	205.9	227.5	267.9	348.7
125°	137.1	130.4	123.7	130.4	137.1	138.8	167.2	205.0	223.9	258.2	326.9
127.5°	145.4	138.6	131.9	138.6	145.4	147.0	171.6	204.5	220.8	250.3	309.3
130°	150.7	143.5	136.2	143.5	150.7	152.5	174.9	204.7	219.7	245.9	298.4
132.5°	155.2	148.1	140.8	148.1	155.2	157.1	177.6	205.0	218.7	242.2	289.1
135°	160.7	154.1	147.5	154.1	160.7	162.3	180.5	204.8	217.0	236.6	276.0
137.5°	167.3	160.9	154.4	160.9	167.3	169.0	184.9	206.1	216.7	233.3	266.6
140°	172.0	166.0	160.0	166.0	172.0	173.5	187.6	206.3	215.6	229.9	258.7
142.5°	175.5	169.9	164.3	169.9	175.5	176.8	189.7	207.0	215.6	228.2	253.5
145°	180.7	175.9	171.0	175.9	180.7	182.0	192.7	207.0	214.1	224.4	245.1
147.5°	187.2	182.5	177.7	182.5	187.2	188.4	197.0	208.4	214.1	222.3	238.5
150°	190.7	186.3	182.1	186.3	190.7	191.8	199.2	209.2	214.1	221.0	234.7
152.5°	193.1	189.8	186.6	189.8	193.1	193.9	200.7	209.7	214.1	220.0	231.7
155°	198.2	195.7	193.3	195.7	198.2	198.7	203.9	210.8	214.1	218.8	228.1
157.5°	202.9	200.6	198.3	200.6	202.9	203.5	207.1	211.8	214.1	217.7	225.0
160°	205.2	203.5	201.6	203.5	205.2	205.7	208.5	212.3	214.1	217.2	223.5
162.5°	207.7	206.3	204.9	206.3	207.7	208.0	210.1	212.8	214.1	216.8	222.0
165°	211.0	209.8	208.6	209.8	211.0	211.3	212.3	213.6	214.1	216.0	219.8
167.5°	213.1	212.5	211.9	212.5	213.1	213.3	214.1	215.1	215.6	216.9	219.3
170°	215.3	214.7	214.1	214.7	215.3	215.4	215.5	215.6	215.6	216.9	219.3
172.5°	215.6	215.4	215.3	215.4	215.6	215.6	215.6	215.6	215.6	216.6	218.5
175°	217.0	217.0	217.0	217.0	217.0	217.0	216.5	215.9	215.6	216.2	217.4
177.5°	217.0	217.0	217.0	217.0	217.0	217.0	216.6	216.1	215.9	216.4	217.3
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0

TEST NUMBER: P934189

CATALOG NUMBER: SQ4-FA-025U-125D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	2508.6	2501.3	2511.1	2484.0	2511.1	2501.3	2508.6	2525.8	2511.1	2521.0	2530.7
5°	2201.2	2188.9	2149.5	2117.6	2149.5	2188.9	2201.2	2252.8	2277.4	2321.7	2380.7
7.5°	1967.6	1957.7	1947.9	1928.2	1947.9	1957.7	1967.6	1982.3	2006.9	2046.2	2090.5
10°	1915.9	1918.3	1933.2	1930.6	1933.2	1918.3	1915.9	1911.0	1903.6	1911.0	1938.0
12.5°	2048.8	2070.8	2152.1	2147.1	2152.1	2070.8	2048.8	1950.3	1883.9	1871.6	1876.6
15°	2201.2	2208.5	2225.8	2228.2	2225.8	2208.5	2201.2	2161.8	1962.6	1876.6	1849.5
17.5°	2215.9	2218.4	2230.7	2230.7	2230.7	2218.4	2215.9	2198.8	2132.3	2016.8	1864.3
20°	2203.7	2208.5	2233.2	2238.1	2233.2	2208.5	2203.7	2181.5	2144.6	2102.8	1987.2
22.5°	2198.8	2208.5	2228.2	2225.8	2228.2	2208.5	2198.8	2164.3	2132.3	2102.8	2056.1
25°	2174.1	2174.1	2176.6	2179.1	2176.6	2174.1	2174.1	2147.1	2083.2	2075.8	2048.8
27.5°	2122.5	2127.4	2142.2	2139.7	2142.2	2127.4	2122.5	2112.6	2043.8	2036.5	2016.8
30°	2075.8	2070.8	2058.5	2048.8	2058.5	2070.8	2075.8	2061.0	1992.2	1972.5	1977.3
32.5°	1997.1	1984.8	1972.5	1965.1	1972.5	1984.8	1997.1	1992.2	1940.5	1913.5	1918.3
35°	1903.6	1906.0	1903.6	1896.2	1903.6	1906.0	1903.6	1908.5	1876.6	1852.0	1849.5
37.5°	1837.2	1842.1	1839.6	1829.9	1839.6	1842.1	1837.2	1832.3	1788.0	1780.6	1785.6
40°	1768.3	1770.8	1768.3	1761.0	1768.3	1770.8	1768.3	1758.5	1697.0	1699.4	1716.7
42.5°	1702.0	1699.4	1692.1	1687.1	1692.1	1699.4	1702.0	1687.1	1608.4	1601.1	1633.1
45°	1625.7	1628.1	1613.4	1606.0	1613.4	1628.1	1625.7	1615.8	1534.7	1515.0	1537.1
47.5°	1549.4	1549.4	1537.1	1529.8	1537.1	1549.4	1549.4	1537.1	1451.1	1431.4	1443.7
50°	1468.3	1465.8	1448.7	1446.1	1448.7	1465.8	1468.3	1460.9	1369.9	1352.7	1352.7
52.5°	1374.8	1374.8	1377.2	1382.2	1377.2	1374.8	1374.8	1377.2	1296.1	1278.9	1273.9
55°	1293.6	1296.1	1313.4	1318.2	1313.4	1296.1	1293.6	1293.6	1219.9	1202.6	1192.8
57.5°	1210.1	1210.1	1222.3	1222.3	1222.3	1210.1	1210.1	1205.1	1133.8	1119.0	1114.2
60°	1114.2	1119.0	1128.9	1126.5	1128.9	1119.0	1114.2	1109.2	1047.7	1037.9	1020.6
62.5°	1013.3	1018.2	1020.6	1015.7	1020.6	1018.2	1013.3	998.6	961.6	954.3	932.1
65°	907.6	912.4	914.9	910.0	914.9	912.4	907.6	900.2	873.1	860.8	841.1
67.5°	799.3	796.8	794.4	804.3	794.4	796.8	799.3	789.4	772.3	762.4	735.4
70°	688.7	688.7	686.1	691.1	686.1	688.7	688.7	681.3	671.4	664.1	639.4
72.5°	570.5	568.1	578.0	570.5	578.0	568.1	570.5	568.1	563.2	555.8	531.2
75°	455.0	459.9	455.0	462.4	455.0	459.9	455.0	457.5	455.0	450.1	432.9
77.5°	346.8	351.7	346.8	346.8	346.8	351.7	346.8	349.2	349.2	349.2	334.5
80°	245.9	243.5	243.5	241.0	243.5	243.5	245.9	245.9	248.4	243.5	238.6
82.5°	157.4	154.9	154.9	159.9	154.9	154.9	157.4	159.9	154.9	154.9	154.9
85°	86.0	88.6	83.6	83.6	83.6	88.6	86.0	81.2	86.0	86.0	83.6
87.5°	32.0	29.6	29.6	29.6	29.6	29.6	32.0	34.4	34.4	34.4	36.9
90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	9.8	11.0	9.5
92.5°	27.6	26.6	22.1	17.7	22.1	26.6	27.6	39.1	54.6	62.3	54.7
95°	93.9	90.6	77.2	64.0	77.2	90.6	93.9	123.3	162.5	182.1	153.8
97.5°	216.8	210.5	185.1	159.7	185.1	210.5	216.8	235.4	260.1	272.5	225.3
100°	304.4	296.8	266.7	236.4	266.7	296.8	304.4	303.0	301.2	300.3	248.0
102.5°	379.3	372.8	346.9	321.0	346.9	372.8	379.3	355.5	323.9	308.1	255.0
105°	466.6	463.1	449.2	435.3	449.2	463.1	466.6	413.5	342.6	307.3	255.8
107.5°	512.0	512.9	516.2	519.6	516.2	512.9	512.0	438.0	339.2	289.8	244.5
110°	523.6	527.2	541.8	556.3	541.8	527.2	523.6	440.9	330.5	275.3	234.4

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	516.2	521.7	544.0	566.3	544.0	521.7	516.2	431.5	318.5	262.0	225.6
115°	491.0	498.7	529.6	560.5	529.6	498.7	491.0	409.4	300.6	246.1	215.4
117.5°	456.2	464.7	499.0	533.2	499.0	464.7	456.2	382.6	284.4	235.3	209.1
120°	432.9	441.2	474.4	507.7	474.4	441.2	432.9	365.5	275.8	230.9	207.1
122.5°	409.4	417.6	450.4	483.1	450.4	417.6	409.4	348.7	267.9	227.5	205.9
125°	378.4	386.0	416.1	446.3	416.1	386.0	378.4	326.9	258.2	223.9	205.0
127.5°	353.5	359.9	385.4	410.9	385.4	359.9	353.5	309.3	250.3	220.8	204.5
130°	337.7	343.6	367.2	390.7	367.2	343.6	337.7	298.4	245.9	219.7	204.7
132.5°	324.3	329.6	350.7	371.8	350.7	329.6	324.3	289.1	242.2	218.7	205.0
135°	305.4	310.0	328.1	346.3	328.1	310.0	305.4	276.0	236.6	217.0	204.8
137.5°	291.5	295.2	310.1	324.9	310.1	295.2	291.5	266.6	233.3	216.7	206.1
140°	280.2	283.7	297.6	311.5	297.6	283.7	280.2	258.7	229.9	215.6	206.3
142.5°	272.4	275.4	287.3	299.3	287.3	275.4	272.4	253.5	228.2	215.6	207.0
145°	260.6	262.8	271.9	281.0	271.9	262.8	260.6	245.1	224.4	214.1	207.0
147.5°	250.7	252.5	260.1	267.5	260.1	252.5	250.7	238.5	222.3	214.1	208.4
150°	245.0	246.5	252.6	258.7	252.6	246.5	245.0	234.7	221.0	214.1	209.2
152.5°	240.5	241.7	246.2	250.9	246.2	241.7	240.5	231.7	220.0	214.1	209.7
155°	235.1	235.9	238.9	242.0	238.9	235.9	235.1	228.1	218.8	214.1	210.8
157.5°	230.4	231.0	233.1	235.3	233.1	231.0	230.4	225.0	217.7	214.1	211.8
160°	228.1	228.4	229.7	230.9	229.7	228.4	228.1	223.5	217.2	214.1	212.3
162.5°	226.0	226.3	227.4	228.6	227.4	226.3	226.0	222.0	216.8	214.1	212.8
165°	222.6	222.9	224.1	225.4	224.1	222.9	222.6	219.8	216.0	214.1	213.6
167.5°	221.1	221.2	221.8	222.3	221.8	221.2	221.1	219.3	216.9	215.6	215.1
170°	221.1	221.1	221.1	221.1	221.1	221.1	221.1	219.3	216.9	215.6	215.6
172.5°	220.0	219.9	219.4	219.0	219.4	219.9	220.0	218.5	216.6	215.6	215.6
175°	218.4	218.4	218.4	218.4	218.4	218.4	218.4	217.4	216.2	215.6	215.9
177.5°	218.1	218.0	217.4	217.0	217.4	218.0	218.1	217.3	216.4	215.9	216.1
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	2567.7	2580.0	2587.3	2597.2	2621.7
5°	2469.3	2516.0	2530.7	2567.7	2611.9
7.5°	2252.8	2395.5	2434.8	2523.4	2592.3
10°	2043.8	2186.5	2255.3	2464.4	2567.7
12.5°	1938.0	2021.6	2068.4	2361.1	2533.3
15°	1871.6	1930.6	1965.1	2223.4	2493.9
17.5°	1820.0	1861.8	1886.4	2088.1	2439.7
20°	1788.0	1807.7	1829.9	1989.6	2378.3
22.5°	1765.9	1753.6	1770.8	1920.8	2294.7
25°	1751.1	1704.4	1724.0	1866.7	2196.2
27.5°	1763.4	1660.1	1667.5	1817.6	2092.9
30°	1765.9	1606.0	1608.4	1765.9	1977.3
32.5°	1748.7	1549.4	1552.0	1702.0	1847.0
35°	1706.9	1483.1	1480.5	1628.1	1670.0
37.5°	1650.3	1411.7	1411.7	1547.0	1475.7
40°	1581.4	1340.4	1347.8	1441.2	1303.5
42.5°	1497.8	1264.2	1273.9	1301.1	1175.6
45°	1406.8	1190.3	1197.8	1099.3	1077.2
47.5°	1305.9	1114.2	1116.6	912.4	1045.3
50°	1185.5	1035.4	1025.6	782.1	1042.8
52.5°	1079.7	949.3	919.9	708.3	946.9
55°	976.4	858.3	794.4	651.7	878.0
57.5°	885.4	740.3	678.8	585.4	863.3
60°	801.8	624.7	578.0	514.1	792.0
62.5°	733.0	538.6	528.8	464.8	718.1
65°	659.1	479.6	477.1	423.1	610.0
67.5°	587.8	440.2	437.8	383.6	464.8
70°	511.5	398.5	393.5	341.9	344.3
72.5°	432.9	351.7	346.8	307.5	285.3
75°	354.2	297.6	295.2	268.1	231.2
77.5°	277.9	236.1	241.0	216.5	169.7
80°	199.2	172.2	177.0	154.9	127.9
82.5°	132.8	113.2	118.0	98.4	86.0
85°	73.7	64.0	66.4	51.6	39.3
87.5°	34.4	29.6	29.6	19.7	12.3
90°	6.4	4.1	3.8	2.6	1.5
92.5°	39.5	28.1	25.6	15.7	5.8
95°	97.2	54.7	50.2	32.1	14.0
97.5°	130.9	60.1	56.1	40.1	24.1
100°	143.2	64.6	61.0	46.5	32.1
102.5°	148.8	69.2	65.8	52.3	38.8
105°	153.0	75.9	73.0	61.5	50.1
107.5°	153.8	85.8	83.0	72.4	61.7
110°	152.6	91.3	88.9	79.3	69.6



TEST NUMBER: P934189

CATALOG NUMBER: SQ4-FA-025U-125D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	152.6	98.0	95.6	86.5	77.3
115°	154.1	108.0	105.9	97.5	89.0
117.5°	156.9	117.7	115.8	108.1	100.5
120°	159.3	123.5	121.6	114.4	107.2
122.5°	162.6	130.1	128.3	121.0	113.7
125°	167.2	138.8	137.1	130.4	123.7
127.5°	171.6	147.0	145.4	138.6	131.9
130°	174.9	152.5	150.7	143.5	136.2
132.5°	177.6	157.1	155.2	148.1	140.8
135°	180.5	162.3	160.7	154.1	147.5
137.5°	184.9	169.0	167.3	160.9	154.4
140°	187.6	173.5	172.0	166.0	160.0
142.5°	189.7	176.8	175.5	169.9	164.3
145°	192.7	182.0	180.7	175.9	171.0
147.5°	197.0	188.4	187.2	182.5	177.7
150°	199.2	191.8	190.7	186.3	182.1
152.5°	200.7	193.9	193.1	189.8	186.6
155°	203.9	198.7	198.2	195.7	193.3
157.5°	207.1	203.5	202.9	200.6	198.3
160°	208.5	205.7	205.2	203.5	201.6
162.5°	210.1	208.0	207.7	206.3	204.9
165°	212.3	211.3	211.0	209.8	208.6
167.5°	214.1	213.3	213.1	212.5	211.9
170°	215.5	215.4	215.3	214.7	214.1
172.5°	215.6	215.6	215.6	215.4	215.3
175°	216.5	217.0	217.0	217.0	217.0
177.5°	216.6	217.0	217.0	217.0	217.0
180°	217.0	217.0	217.0	217.0	217.0

TEST NUMBER: P934189

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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	17.06	18.32	17.68	18.95	19.66	19.89	21.15	20.50	21.77	22.48
	3H	17.57	18.70	18.20	19.34	20.09	21.26	22.39	21.89	23.03	23.78
	4H	17.78	18.85	18.43	19.49	20.26	21.72	22.79	22.37	23.44	24.20
	6H	17.92	18.90	18.58	19.56	20.34	22.03	23.01	22.69	23.67	24.45
	8H	17.93	18.87	18.60	19.55	20.33	22.11	23.05	22.78	23.73	24.51
	12H	17.92	18.81	18.59	19.49	20.29	22.16	23.06	22.84	23.73	24.54
4H	2H	18.14	19.21	18.79	19.86	20.62	20.34	21.41	21.00	22.06	22.82
	3H	19.21	20.09	19.87	20.78	21.56	21.88	22.77	22.55	23.46	24.24
	4H	19.50	20.30	20.18	21.00	21.81	22.43	23.23	23.11	23.93	24.74
	6H	19.65	20.35	20.35	21.06	21.88	22.81	23.51	23.52	24.23	25.05
	8H	19.66	20.31	20.37	21.03	21.86	22.93	23.58	23.63	24.30	25.13
	12H	19.65	20.23	20.37	20.97	21.81	23.00	23.59	23.73	24.33	25.17
8H	4H	19.98	20.64	20.69	21.35	22.18	22.58	23.24	23.29	23.95	24.78
	6H	20.26	20.80	21.00	21.56	22.39	23.04	23.58	23.77	24.33	25.17
	8H	20.31	20.79	21.06	21.55	22.40	23.19	23.67	23.94	24.43	25.28
	12H	20.31	20.73	21.06	21.48	22.40	23.31	23.73	24.06	24.48	25.39
12H	4H	20.01	20.59	20.73	21.33	22.17	22.57	23.16	23.29	23.89	24.73
	6H	20.32	20.81	21.07	21.57	22.42	23.04	23.52	23.78	24.28	25.13
	8H	20.41	20.84	21.16	21.58	22.50	23.22	23.64	23.97	24.39	25.30