

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: P934166

Luminaire Tested: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934166
REPORT IS A COMBINATION OF REPORTS P933688 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-8-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

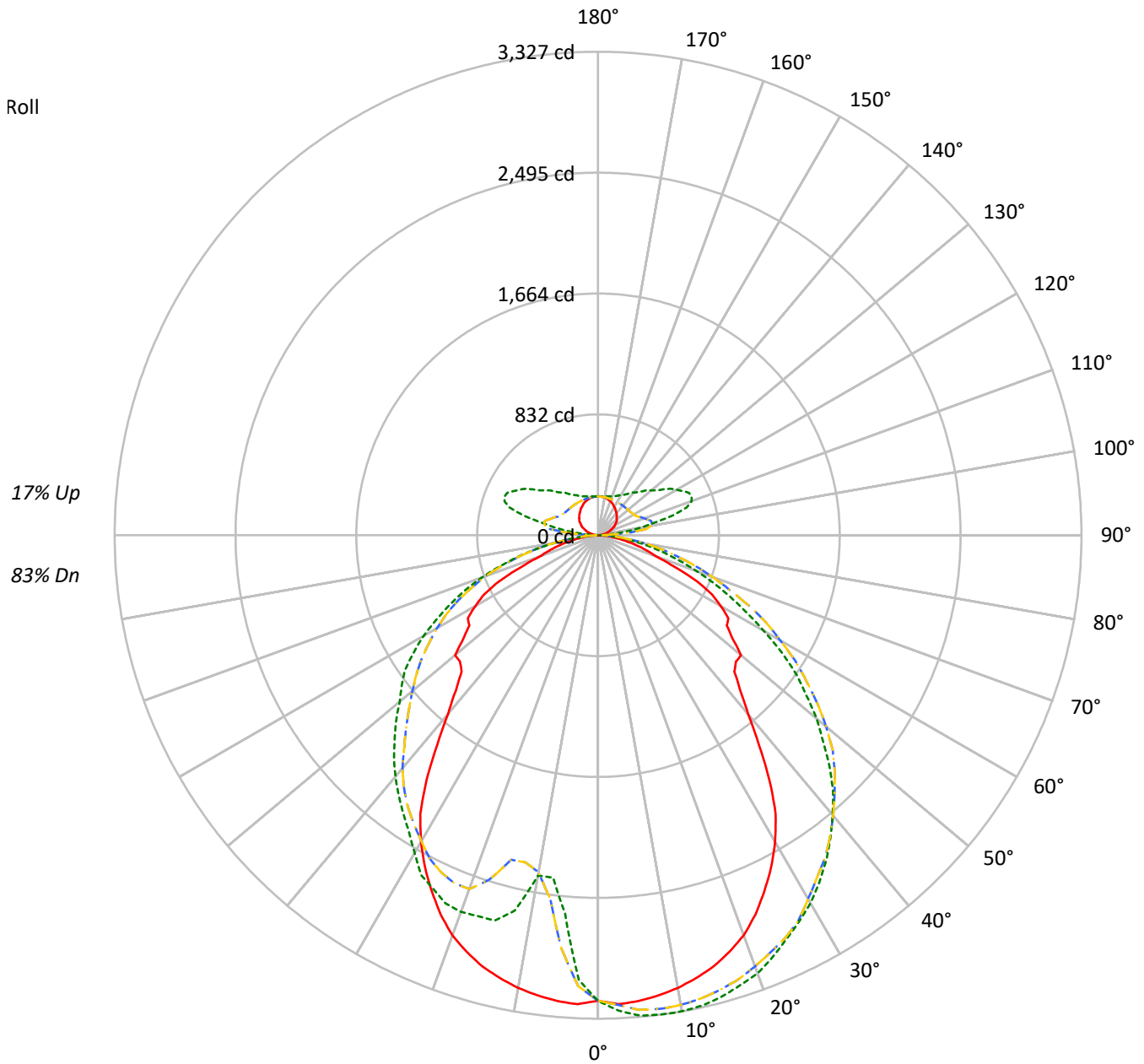
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10037.3 lumens
Efficiency: N/A
Efficacy: 101.2 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): 99.2
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			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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14859	14859	14859	14859
5°	14970	15000	14970	11794
10°	14870	14775	14870	10564
15°	14708	14455	14708	12071
20°	14401	14076	14401	12096
25°	13771	13523	13771	11839
30°	12958	13064	12958	11277
35°	11551	12483	11551	10658
40°	9625	11799	9625	10191
45°	8600	10999	8600	9653
50°	9137	10044	9137	9115
55°	8596	9016	8596	8802
60°	8861	7657	8861	8062
65°	8034	6330	8034	7076
70°	5563	5044	5563	5931
75°	4878	3729	4878	4465
80°	3932	2465	3932	2685
85°	2254	1306	2254	1111

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13181 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.1	2.9
10°-20°	820.8	8.2
20°-30°	1268.9	12.6
30°-40°	1514.7	15.1
40°-50°	1523.6	15.2
50°-60°	1325.7	13.2
60°-70°	940.0	9.4
70°-80°	497.3	5.0
80°-90°	124.9	1.2
90°-100°	130.2	1.3
100°-110°	342.5	3.4
110°-120°	355.1	3.5
120°-130°	284.8	2.8
130°-140°	223.5	2.2
140°-150°	171.5	1.7
150°-160°	123.5	1.2
160°-170°	75.6	0.8
170°-180°	25.5	0.3
0°-30°	2378.8	23.7
0°-40°	3893.5	38.8
0°-60°	6742.9	67.2
0°-90°	8305.0	82.7
90°-120°	827.8	8.2
90°-150°	1507.7	15.0
90°-180°	1732.0	17.3
0°-180°	10037.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3203	3203	3203	3203	3203	
5°	3218	3318	3218	2609	3218	305
15°	3072	3288	3072	2745	3072	864
25°	2706	3066	2706	2685	2706	1242
35°	2057	2736	2057	2336	2057	1273
45°	1327	2254	1327	1978	1327	1063
55°	1082	1664	1082	1624	1082	994
65°	751	1003	751	1121	751	718
75°	285	476	285	570	285	299
85°	48	121	48	103	48	65
90°	2	7	2	7	2	4
95°	17	79	17	79	17	19
105°	62	536	62	536	62	65
115°	110	690	110	690	110	108
125°	152	550	152	550	152	135
135°	182	427	182	427	182	141
145°	211	346	211	346	211	132
155°	238	298	238	298	238	109
165°	257	278	257	278	257	73
175°	267	269	267	269	267	25
180°	267	267	267	267	267	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7
2.5°	3229.9	3229.9	3248.1	3254.2	3254.2	3245.1	3236.0	3245.1	3272.4	3281.5	3278.5
5°	3217.8	3242.1	3275.4	3281.5	3287.5	3284.5	3278.5	3284.5	3314.8	3320.9	3323.9
7.5°	3193.6	3239.1	3281.5	3290.5	3299.7	3290.5	3287.5	3293.6	3323.9	3329.9	3329.9
10°	3163.3	3227.0	3275.4	3281.5	3290.5	3281.5	3281.5	3293.6	3323.9	3329.9	3333.0
12.5°	3120.9	3208.7	3254.2	3260.3	3272.4	3269.3	3266.4	3278.5	3308.7	3314.8	3314.8
15°	3072.4	3175.4	3217.8	3223.9	3245.1	3239.1	3239.1	3251.1	3284.5	3293.6	3290.5
17.5°	3005.7	3133.0	3181.5	3190.5	3205.8	3202.7	3205.8	3217.8	3248.1	3254.2	3257.2
20°	2930.0	3075.4	3133.0	3142.1	3157.2	3157.2	3157.2	3172.4	3202.7	3214.8	3214.8
22.5°	2826.9	3014.9	3075.4	3081.5	3099.7	3099.7	3105.7	3127.0	3154.2	3157.2	3157.2
25°	2705.8	2948.2	2999.7	3017.8	3036.0	3045.1	3054.3	3066.4	3075.4	3072.4	3075.4
27.5°	2578.5	2863.3	2930.0	2942.1	2966.3	2975.5	2987.6	2990.6	2993.7	3002.7	2996.6
30°	2436.1	2745.2	2845.1	2857.3	2896.7	2902.7	2890.6	2896.7	2911.8	2917.9	2923.9
32.5°	2275.5	2569.5	2757.3	2784.6	2820.9	2802.8	2799.7	2808.8	2833.0	2833.0	2839.1
35°	2057.3	2433.1	2675.5	2699.7	2726.9	2705.8	2717.9	2720.9	2736.1	2745.2	2742.2
37.5°	1818.0	2314.9	2590.7	2608.8	2630.1	2602.8	2620.9	2630.1	2642.2	2636.1	2636.1
40°	1605.9	2130.0	2490.7	2502.8	2520.9	2499.7	2517.9	2524.0	2530.1	2524.0	2520.9
42.5°	1448.3	1927.1	2384.6	2399.7	2387.6	2402.7	2408.8	2420.9	2411.9	2399.7	2399.7
45°	1327.1	1872.5	2269.4	2287.6	2269.4	2293.7	2302.8	2302.8	2275.5	2269.4	2266.4
47.5°	1287.7	1763.4	2154.3	2154.3	2145.3	2175.5	2190.6	2169.4	2142.2	2133.1	2133.1
50°	1284.7	1642.3	1996.7	1984.6	2027.1	2063.4	2048.3	2027.1	2005.9	1972.6	1972.6
52.5°	1166.5	1493.7	1793.8	1839.2	1905.9	1927.1	1902.8	1881.6	1845.2	1830.1	1818.0
55°	1081.7	1339.3	1609.0	1699.8	1769.5	1796.8	1751.3	1730.1	1675.6	1666.5	1660.4
57.5°	1063.5	1115.0	1439.2	1554.4	1639.2	1636.2	1609.0	1569.6	1524.1	1515.0	1512.0
60°	975.6	806.0	1257.5	1393.8	1481.7	1472.6	1448.3	1412.0	1369.6	1363.5	1357.5
62.5°	884.7	584.8	1051.4	1205.9	1330.2	1327.1	1305.9	1251.4	1221.1	1205.9	1193.8
65°	751.4	490.9	748.4	1002.9	1181.7	1187.7	1142.3	1102.9	1069.5	1051.4	1048.4
67.5°	572.6	399.9	506.0	836.3	1039.3	1033.2	975.6	957.4	915.1	906.0	887.8
70°	424.2	266.6	351.5	678.7	899.9	884.7	839.3	818.1	778.7	757.5	745.3
72.5°	351.5	215.1	257.6	527.2	757.5	739.3	700.0	675.7	642.4	624.2	612.0
75°	284.8	227.2	197.0	390.9	615.1	603.0	566.6	542.4	515.1	490.9	493.9
77.5°	209.1	212.1	157.6	287.8	487.9	469.7	448.5	418.1	406.0	381.8	381.8
80°	157.6	166.6	118.2	197.0	351.5	351.5	333.3	312.1	290.9	278.8	278.8
82.5°	106.0	106.0	87.8	124.3	239.4	230.3	218.2	212.1	200.0	193.9	193.9
85°	48.4	60.6	54.5	75.7	130.3	136.4	136.4	130.3	127.2	121.2	124.3
87.5°	15.1	27.3	33.3	42.4	66.7	69.7	72.7	72.7	72.7	75.7	75.7
90°	1.8	3.2	4.7	5.0	7.9	11.7	13.6	12.1	9.0	6.8	6.8
92.5°	7.2	19.3	31.6	34.6	48.7	67.4	76.7	67.2	48.3	34.1	32.8
95°	17.2	39.5	61.9	67.4	119.7	189.4	224.4	200.2	151.9	115.7	111.6
97.5°	29.8	49.5	69.1	74.0	161.2	277.5	335.7	320.5	290.0	267.1	259.3
100°	39.5	57.3	75.1	79.6	176.4	305.4	369.9	371.1	373.3	375.0	365.7
102.5°	47.7	64.4	81.0	85.1	183.4	314.3	379.7	399.1	438.0	467.2	459.2
105°	61.7	75.8	90.0	93.5	188.6	315.2	378.6	422.2	509.4	574.8	570.5
107.5°	76.0	89.2	102.3	105.6	189.4	301.2	357.1	417.8	539.5	630.7	631.8
110°	85.8	97.6	109.5	112.5	188.0	288.7	339.1	407.1	543.1	645.1	649.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	95.3	106.5	117.8	120.7	188.1	277.9	322.8	392.4	531.5	635.9	642.8
115°	109.6	120.0	130.4	133.0	189.8	265.5	303.2	370.3	504.4	605.0	614.5
117.5°	123.7	133.2	142.7	145.1	193.4	257.7	289.8	350.3	471.3	562.1	572.6
120°	132.0	140.9	149.9	152.1	196.3	255.1	284.4	339.7	450.3	533.2	543.4
122.5°	140.0	149.1	158.1	160.4	200.4	253.6	280.3	330.1	429.7	504.3	514.4
125°	152.5	160.7	168.9	170.9	205.9	252.6	275.8	318.1	402.7	466.1	475.4
127.5°	162.5	170.7	179.1	181.1	211.5	251.9	272.1	308.4	381.0	435.5	443.4
130°	167.9	176.8	185.7	187.9	215.5	252.3	270.7	303.0	367.6	416.1	423.3
132.5°	173.4	182.4	191.2	193.5	218.8	252.6	269.4	298.3	356.2	399.6	406.1
135°	181.7	189.8	198.0	200.0	222.4	252.3	267.3	291.5	339.9	376.3	381.9
137.5°	190.1	198.1	206.2	208.2	227.8	253.8	266.9	287.4	328.3	359.0	363.6
140°	197.1	204.5	211.9	213.8	231.1	254.1	265.6	283.4	318.7	345.2	349.5
142.5°	202.5	209.3	216.2	217.9	233.9	255.1	265.6	281.2	312.3	335.6	339.2
145°	210.8	216.8	222.7	224.2	237.4	255.1	263.8	276.6	302.0	321.1	323.8
147.5°	219.0	224.8	230.6	232.1	242.6	256.8	263.8	273.9	293.8	308.8	311.1
150°	224.4	229.6	234.8	236.2	245.4	257.7	263.8	272.3	289.2	301.8	303.7
152.5°	229.9	233.9	237.9	238.9	247.2	258.3	263.8	271.0	285.4	296.3	297.7
155°	238.2	241.1	244.1	244.8	251.1	259.6	263.8	269.6	281.0	289.6	290.5
157.5°	244.2	247.1	250.0	250.7	255.1	260.9	263.8	268.3	277.2	283.9	284.5
160°	248.4	250.6	252.8	253.4	256.9	261.5	263.8	267.7	275.3	281.0	281.4
162.5°	252.5	254.2	255.8	256.2	258.7	262.1	263.8	267.1	273.5	278.4	278.7
165°	257.0	258.6	260.1	260.4	261.6	263.1	263.8	266.2	270.7	274.2	274.6
167.5°	261.2	261.9	262.6	262.8	263.8	265.0	265.6	267.2	270.2	272.4	272.6
170°	263.8	264.6	265.3	265.5	265.5	265.6	265.6	267.2	270.2	272.4	272.4
172.5°	265.3	265.5	265.6	265.6	265.6	265.6	265.6	266.8	269.2	271.0	270.8
175°	267.3	267.3	267.3	267.3	266.7	266.0	265.6	266.4	267.9	269.0	269.0
177.5°	267.3	267.3	267.3	267.3	266.8	266.3	266.0	266.6	267.8	268.7	268.5
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7
2.5°	3284.5	3275.4	3284.5	3278.5	3281.5	3272.4	3245.1	3236.0	3245.1	3254.2	3254.2
5°	3323.9	3317.8	3323.9	3323.9	3320.9	3314.8	3284.5	3278.5	3284.5	3287.5	3281.5
7.5°	3336.0	3326.9	3336.0	3329.9	3329.9	3323.9	3293.6	3287.5	3290.5	3299.7	3290.5
10°	3336.0	3326.9	3336.0	3333.0	3329.9	3323.9	3293.6	3281.5	3281.5	3290.5	3281.5
12.5°	3320.9	3314.8	3320.9	3314.8	3314.8	3308.7	3278.5	3266.4	3269.3	3272.4	3260.3
15°	3296.6	3287.5	3296.6	3290.5	3293.6	3284.5	3251.1	3239.1	3239.1	3245.1	3223.9
17.5°	3260.3	3248.1	3260.3	3257.2	3254.2	3248.1	3217.8	3205.8	3202.7	3205.8	3190.5
20°	3217.8	3208.7	3217.8	3214.8	3214.8	3202.7	3172.4	3157.2	3157.2	3157.2	3142.1
22.5°	3151.1	3142.1	3151.1	3157.2	3157.2	3154.2	3127.0	3105.7	3099.7	3099.7	3081.5
25°	3075.4	3066.4	3075.4	3075.4	3072.4	3075.4	3066.4	3054.3	3045.1	3036.0	3017.8
27.5°	3002.7	2996.6	3002.7	2996.6	3002.7	2993.7	2990.6	2987.6	2975.5	2966.3	2942.1
30°	2930.0	2923.9	2930.0	2923.9	2917.9	2911.8	2896.7	2890.6	2902.7	2896.7	2857.3
32.5°	2839.1	2833.0	2839.1	2839.1	2833.0	2833.0	2808.8	2799.7	2802.8	2820.9	2784.6
35°	2745.2	2736.1	2745.2	2742.2	2745.2	2736.1	2720.9	2717.9	2705.8	2726.9	2699.7
37.5°	2636.1	2627.0	2636.1	2636.1	2636.1	2642.2	2630.1	2620.9	2602.8	2630.1	2608.8
40°	2524.0	2511.9	2524.0	2520.9	2524.0	2530.1	2524.0	2517.9	2499.7	2520.9	2502.8
42.5°	2396.8	2393.7	2396.8	2399.7	2399.7	2411.9	2420.9	2408.8	2402.7	2387.6	2399.7
45°	2260.4	2254.3	2260.4	2266.4	2269.4	2275.5	2302.8	2302.8	2293.7	2269.4	2287.6
47.5°	2114.9	2099.8	2114.9	2133.1	2133.1	2142.2	2169.4	2190.6	2175.5	2145.3	2154.3
50°	1960.4	1963.4	1960.4	1972.6	1972.6	2005.9	2027.1	2048.3	2063.4	2027.1	1984.6
52.5°	1808.9	1805.8	1808.9	1818.0	1830.1	1845.2	1881.6	1902.8	1927.1	1905.9	1839.2
55°	1657.4	1663.5	1657.4	1660.4	1666.5	1675.6	1730.1	1751.3	1796.8	1769.5	1699.8
57.5°	1505.9	1496.8	1505.9	1512.0	1515.0	1524.1	1569.6	1609.0	1636.2	1639.2	1554.4
60°	1330.2	1318.1	1330.2	1357.5	1363.5	1369.6	1412.0	1448.3	1472.6	1481.7	1393.8
62.5°	1175.6	1154.4	1175.6	1193.8	1205.9	1221.1	1251.4	1305.9	1327.1	1330.2	1205.9
65°	1012.0	1002.9	1012.0	1048.4	1051.4	1069.5	1102.9	1142.3	1187.7	1181.7	1002.9
67.5°	863.5	863.5	863.5	887.8	906.0	915.1	957.4	975.6	1033.2	1039.3	836.3
70°	727.2	724.1	727.2	745.3	757.5	778.7	818.1	839.3	884.7	899.9	678.7
72.5°	596.9	593.9	596.9	612.0	624.2	642.4	675.7	700.0	739.3	757.5	527.2
75°	481.8	475.7	481.8	493.9	490.9	515.1	542.4	566.6	603.0	615.1	390.9
77.5°	369.7	369.7	369.7	381.8	381.8	406.0	418.1	448.5	469.7	487.9	287.8
80°	275.8	272.7	275.8	278.8	278.8	290.9	312.1	333.3	351.5	351.5	197.0
82.5°	193.9	187.8	193.9	193.9	193.9	200.0	212.1	218.2	230.3	239.4	124.3
85°	121.2	121.2	121.2	124.3	121.2	127.2	130.3	136.4	136.4	130.3	75.7
87.5°	78.8	75.7	78.8	75.7	75.7	72.7	72.7	72.7	69.7	66.7	42.4
90°	6.8	6.8	6.8	6.8	6.8	9.0	12.1	13.6	11.7	7.9	5.0
92.5°	27.3	21.8	27.3	32.8	34.1	48.3	67.2	76.7	67.4	48.7	34.6
95°	95.2	78.7	95.2	111.6	115.7	151.9	200.2	224.4	189.4	119.7	67.4
97.5°	227.9	196.7	227.9	259.3	267.1	290.0	320.5	335.7	277.5	161.2	74.0
100°	328.5	291.2	328.5	365.7	375.0	373.3	371.1	369.9	305.4	176.4	79.6
102.5°	427.3	395.5	427.3	459.2	467.2	438.0	399.1	379.7	314.3	183.4	85.1
105°	553.4	536.2	553.4	570.5	574.8	509.4	422.2	378.6	315.2	188.6	93.5
107.5°	635.9	640.1	635.9	631.8	630.7	539.5	417.8	357.1	301.2	189.4	105.6
110°	667.4	685.3	667.4	649.5	645.1	543.1	407.1	339.1	288.7	188.0	112.5



TEST NUMBER: P934166

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	670.2	697.6	670.2	642.8	635.9	531.5	392.4	322.8	277.9	188.1	120.7
115°	652.5	690.5	652.5	614.5	605.0	504.4	370.3	303.2	265.5	189.8	133.0
117.5°	614.8	657.0	614.8	572.6	562.1	471.3	350.3	289.8	257.7	193.4	145.1
120°	584.4	625.4	584.4	543.4	533.2	450.3	339.7	284.4	255.1	196.3	152.1
122.5°	554.8	595.2	554.8	514.4	504.3	429.7	330.1	280.3	253.6	200.4	160.4
125°	512.7	549.9	512.7	475.4	466.1	402.7	318.1	275.8	252.6	205.9	170.9
127.5°	474.7	506.1	474.7	443.4	435.5	381.0	308.4	272.1	251.9	211.5	181.1
130°	452.3	481.3	452.3	423.3	416.1	367.6	303.0	270.7	252.3	215.5	187.9
132.5°	432.1	458.0	432.1	406.1	399.6	356.2	298.3	269.4	252.6	218.8	193.5
135°	404.2	426.6	404.2	381.9	376.3	339.9	291.5	267.3	252.3	222.4	200.0
137.5°	381.9	400.3	381.9	363.6	359.0	328.3	287.4	266.9	253.8	227.8	208.2
140°	366.6	383.8	366.6	349.5	345.2	318.7	283.4	265.6	254.1	231.1	213.8
142.5°	354.0	368.7	354.0	339.2	335.6	312.3	281.2	265.6	255.1	233.9	217.9
145°	335.0	346.1	335.0	323.8	321.1	302.0	276.6	263.8	255.1	237.4	224.2
147.5°	320.3	329.7	320.3	311.1	308.8	293.8	273.9	263.8	256.8	242.6	232.1
150°	311.2	318.7	311.2	303.7	301.8	289.2	272.3	263.8	257.7	245.4	236.2
152.5°	303.3	309.0	303.3	297.7	296.3	285.4	271.0	263.8	258.3	247.2	238.9
155°	294.3	298.0	294.3	290.5	289.6	281.0	269.6	263.8	259.6	251.1	244.8
157.5°	287.2	289.8	287.2	284.5	283.9	277.2	268.3	263.8	260.9	255.1	250.7
160°	282.9	284.4	282.9	281.4	281.0	275.3	267.7	263.8	261.5	256.9	253.4
162.5°	280.1	281.6	280.1	278.7	278.4	273.5	267.1	263.8	262.1	258.7	256.2
165°	276.1	277.6	276.1	274.6	274.2	270.7	266.2	263.8	263.1	261.6	260.4
167.5°	273.2	273.9	273.2	272.6	272.4	270.2	267.2	265.6	265.0	263.8	262.8
170°	272.4	272.4	272.4	272.4	272.4	270.2	267.2	265.6	265.6	265.5	265.5
172.5°	270.3	269.8	270.3	270.8	271.0	269.2	266.8	265.6	265.6	265.6	265.6
175°	269.0	269.0	269.0	269.0	269.0	267.9	266.4	265.6	266.0	266.7	267.3
177.5°	267.9	267.3	267.9	268.5	268.7	267.8	266.6	266.0	266.3	266.8	267.3
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



TEST NUMBER: P934166

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7
2.5°	3248.1	3229.9	3229.9	3199.7	3187.6	3178.4	3163.3	3117.8	3105.7	3093.6	3111.8
5°	3275.4	3242.1	3217.8	3163.3	3117.8	3099.7	3042.1	2933.0	2860.3	2805.7	2775.5
7.5°	3281.5	3239.1	3193.6	3108.8	2999.7	2951.2	2775.5	2575.5	2520.9	2472.5	2442.1
10°	3275.4	3227.0	3163.3	3036.0	2778.5	2693.6	2517.9	2387.6	2354.3	2345.2	2354.3
12.5°	3254.2	3208.7	3120.9	2908.8	2548.2	2490.7	2387.6	2311.9	2305.8	2321.0	2402.7
15°	3217.8	3175.4	3072.4	2739.1	2420.9	2378.6	2305.8	2278.6	2311.9	2418.0	2663.4
17.5°	3181.5	3133.0	3005.7	2572.5	2324.0	2293.7	2242.2	2296.7	2484.6	2627.0	2708.8
20°	3133.0	3075.4	2930.0	2451.3	2254.3	2227.0	2202.8	2448.2	2590.7	2642.2	2687.6
22.5°	3075.4	3014.9	2826.9	2366.4	2181.6	2160.4	2175.5	2533.1	2590.7	2627.0	2666.4
25°	2999.7	2948.2	2705.8	2299.8	2124.0	2099.8	2157.3	2524.0	2557.3	2566.4	2645.2
27.5°	2930.0	2863.3	2578.5	2239.2	2054.3	2045.3	2172.5	2484.6	2508.8	2517.9	2602.8
30°	2845.1	2745.2	2436.1	2175.5	1981.6	1978.5	2175.5	2436.1	2430.1	2454.3	2539.1
32.5°	2757.3	2569.5	2275.5	2096.7	1911.9	1908.9	2154.3	2363.4	2357.4	2390.7	2454.3
35°	2675.5	2433.1	2057.3	2005.9	1824.0	1827.1	2102.8	2278.6	2281.6	2311.9	2351.3
37.5°	2590.7	2314.9	1818.0	1905.9	1739.2	1739.2	2033.1	2199.8	2193.7	2202.8	2257.4
40°	2490.7	2130.0	1605.9	1775.6	1660.4	1651.3	1948.3	2114.9	2093.7	2090.7	2166.5
42.5°	2384.6	1927.1	1448.3	1602.9	1569.6	1557.4	1845.2	2011.9	1972.6	1981.6	2078.6
45°	2269.4	1872.5	1327.1	1354.4	1475.6	1466.5	1733.1	1893.8	1866.5	1890.7	1990.7
47.5°	2154.3	1763.4	1287.7	1124.2	1375.6	1372.6	1609.0	1778.6	1763.4	1787.7	1893.8
50°	1996.7	1642.3	1284.7	963.5	1263.5	1275.6	1460.4	1666.5	1666.5	1687.7	1799.8
52.5°	1793.8	1493.7	1166.5	872.7	1133.2	1169.5	1330.2	1569.6	1575.6	1596.8	1696.8
55°	1609.0	1339.3	1081.7	802.9	978.7	1057.5	1202.9	1469.6	1481.7	1502.9	1593.7
57.5°	1439.2	1115.0	1063.5	721.2	836.3	912.1	1090.8	1372.6	1378.6	1396.9	1484.7
60°	1257.5	806.0	975.6	633.3	712.0	769.6	987.8	1257.5	1278.7	1290.8	1366.5
62.5°	1051.4	584.8	884.7	572.6	651.4	663.6	902.9	1148.3	1175.6	1184.8	1230.2
65°	748.4	490.9	751.4	521.2	587.8	590.8	812.0	1036.2	1060.5	1075.6	1108.9
67.5°	506.0	399.9	572.6	472.6	539.3	542.4	724.1	906.0	939.3	951.4	972.7
70°	351.5	266.6	424.2	421.2	484.8	490.9	630.2	787.8	818.1	827.2	839.3
72.5°	257.6	215.1	351.5	378.7	427.2	433.3	533.2	654.5	684.7	693.9	700.0
75°	197.0	227.2	284.8	330.3	363.6	366.6	436.3	533.2	554.5	560.6	563.6
77.5°	157.6	212.1	209.1	266.6	297.0	290.9	342.4	412.1	430.3	430.3	430.3
80°	118.2	166.6	157.6	190.9	218.2	212.1	245.4	293.9	299.9	306.0	303.0
82.5°	87.8	106.0	106.0	121.2	145.4	139.4	163.7	190.9	190.9	190.9	197.0
85°	54.5	60.6	48.4	63.7	81.8	78.8	90.9	103.1	106.0	106.0	100.0
87.5°	33.3	27.3	15.1	24.3	36.3	36.3	42.4	45.5	42.4	42.4	42.4
90°	4.7	3.2	1.8	3.2	4.7	5.0	7.9	11.7	13.6	12.1	9.0
92.5°	31.6	19.3	7.2	19.3	31.6	34.6	48.7	67.4	76.7	67.2	48.3
95°	61.9	39.5	17.2	39.5	61.9	67.4	119.7	189.4	224.4	200.2	151.9
97.5°	69.1	49.5	29.8	49.5	69.1	74.0	161.2	277.5	335.7	320.5	290.0
100°	75.1	57.3	39.5	57.3	75.1	79.6	176.4	305.4	369.9	371.1	373.3
102.5°	81.0	64.4	47.7	64.4	81.0	85.1	183.4	314.3	379.7	399.1	438.0
105°	90.0	75.8	61.7	75.8	90.0	93.5	188.6	315.2	378.6	422.2	509.4
107.5°	102.3	89.2	76.0	89.2	102.3	105.6	189.4	301.2	357.1	417.8	539.5
110°	109.5	97.6	85.8	97.6	109.5	112.5	188.0	288.7	339.1	407.1	543.1



TEST NUMBER: P934166

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	117.8	106.5	95.3	106.5	117.8	120.7	188.1	277.9	322.8	392.4	531.5
115°	130.4	120.0	109.6	120.0	130.4	133.0	189.8	265.5	303.2	370.3	504.4
117.5°	142.7	133.2	123.7	133.2	142.7	145.1	193.4	257.7	289.8	350.3	471.3
120°	149.9	140.9	132.0	140.9	149.9	152.1	196.3	255.1	284.4	339.7	450.3
122.5°	158.1	149.1	140.0	149.1	158.1	160.4	200.4	253.6	280.3	330.1	429.7
125°	168.9	160.7	152.5	160.7	168.9	170.9	205.9	252.6	275.8	318.1	402.7
127.5°	179.1	170.7	162.5	170.7	179.1	181.1	211.5	251.9	272.1	308.4	381.0
130°	185.7	176.8	167.9	176.8	185.7	187.9	215.5	252.3	270.7	303.0	367.6
132.5°	191.2	182.4	173.4	182.4	191.2	193.5	218.8	252.6	269.4	298.3	356.2
135°	198.0	189.8	181.7	189.8	198.0	200.0	222.4	252.3	267.3	291.5	339.9
137.5°	206.2	198.1	190.1	198.1	206.2	208.2	227.8	253.8	266.9	287.4	328.3
140°	211.9	204.5	197.1	204.5	211.9	213.8	231.1	254.1	265.6	283.4	318.7
142.5°	216.2	209.3	202.5	209.3	216.2	217.9	233.9	255.1	265.6	281.2	312.3
145°	222.7	216.8	210.8	216.8	222.7	224.2	237.4	255.1	263.8	276.6	302.0
147.5°	230.6	224.8	219.0	224.8	230.6	232.1	242.6	256.8	263.8	273.9	293.8
150°	234.8	229.6	224.4	229.6	234.8	236.2	245.4	257.7	263.8	272.3	289.2
152.5°	237.9	233.9	229.9	233.9	237.9	238.9	247.2	258.3	263.8	271.0	285.4
155°	244.1	241.1	238.2	241.1	244.1	244.8	251.1	259.6	263.8	269.6	281.0
157.5°	250.0	247.1	244.2	247.1	250.0	250.7	255.1	260.9	263.8	268.3	277.2
160°	252.8	250.6	248.4	250.6	252.8	253.4	256.9	261.5	263.8	267.7	275.3
162.5°	255.8	254.2	252.5	254.2	255.8	256.2	258.7	262.1	263.8	267.1	273.5
165°	260.1	258.6	257.0	258.6	260.1	260.4	261.6	263.1	263.8	266.2	270.7
167.5°	262.6	261.9	261.2	261.9	262.6	262.8	263.8	265.0	265.6	267.2	270.2
170°	265.3	264.6	263.8	264.6	265.3	265.5	265.5	265.6	265.6	267.2	270.2
172.5°	265.6	265.5	265.3	265.5	265.6	265.6	265.6	265.6	265.6	266.8	269.2
175°	267.3	267.3	267.3	267.3	267.3	267.3	266.7	266.0	265.6	266.4	267.9
177.5°	267.3	267.3	267.3	267.3	267.3	267.3	266.8	266.3	266.0	266.6	267.8
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



TEST NUMBER: P934166

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7
2.5°	3090.6	3081.5	3093.6	3060.3	3093.6	3081.5	3090.6	3111.8	3093.6	3105.7	3117.8
5°	2711.8	2696.7	2648.2	2608.8	2648.2	2696.7	2711.8	2775.5	2805.7	2860.3	2933.0
7.5°	2424.0	2411.9	2399.7	2375.5	2399.7	2411.9	2424.0	2442.1	2472.5	2520.9	2575.5
10°	2360.4	2363.4	2381.5	2378.6	2381.5	2363.4	2360.4	2354.3	2345.2	2354.3	2387.6
12.5°	2524.0	2551.3	2651.2	2645.2	2651.2	2551.3	2524.0	2402.7	2321.0	2305.8	2311.9
15°	2711.8	2720.9	2742.2	2745.2	2742.2	2720.9	2711.8	2663.4	2418.0	2311.9	2278.6
17.5°	2730.0	2733.0	2748.2	2748.2	2748.2	2733.0	2730.0	2708.8	2627.0	2484.6	2296.7
20°	2714.9	2720.9	2751.2	2757.3	2751.2	2720.9	2714.9	2687.6	2642.2	2590.7	2448.2
22.5°	2708.8	2720.9	2745.2	2742.2	2745.2	2720.9	2708.8	2666.4	2627.0	2590.7	2533.1
25°	2678.5	2678.5	2681.5	2684.6	2681.5	2678.5	2678.5	2645.2	2566.4	2557.3	2524.0
27.5°	2614.8	2620.9	2639.1	2636.1	2639.1	2620.9	2614.8	2602.8	2517.9	2508.8	2484.6
30°	2557.3	2551.3	2536.1	2524.0	2536.1	2551.3	2557.3	2539.1	2454.3	2430.1	2436.1
32.5°	2460.3	2445.2	2430.1	2420.9	2430.1	2445.2	2460.3	2454.3	2390.7	2357.4	2363.4
35°	2345.2	2348.2	2345.2	2336.1	2345.2	2348.2	2345.2	2351.3	2311.9	2281.6	2278.6
37.5°	2263.4	2269.4	2266.4	2254.3	2266.4	2269.4	2263.4	2257.4	2202.8	2193.7	2199.8
40°	2178.6	2181.6	2178.6	2169.4	2178.6	2181.6	2178.6	2166.5	2090.7	2093.7	2114.9
42.5°	2096.7	2093.7	2084.6	2078.6	2084.6	2093.7	2096.7	2078.6	1981.6	1972.6	2011.9
45°	2002.8	2005.9	1987.7	1978.5	1987.7	2005.9	2002.8	1990.7	1890.7	1866.5	1893.8
47.5°	1908.9	1908.9	1893.8	1884.6	1893.8	1908.9	1908.9	1893.8	1787.7	1763.4	1778.6
50°	1808.9	1805.8	1784.6	1781.7	1784.6	1805.8	1808.9	1799.8	1687.7	1666.5	1666.5
52.5°	1693.8	1693.8	1696.8	1702.9	1696.8	1693.8	1693.8	1696.8	1596.8	1575.6	1569.6
55°	1593.7	1596.8	1618.0	1624.1	1618.0	1596.8	1593.7	1593.7	1502.9	1481.7	1469.6
57.5°	1490.8	1490.8	1505.9	1505.9	1505.9	1490.8	1490.8	1484.7	1396.9	1378.6	1372.6
60°	1372.6	1378.6	1390.8	1387.7	1390.8	1378.6	1372.6	1366.5	1290.8	1278.7	1257.5
62.5°	1248.3	1254.4	1257.5	1251.4	1257.5	1254.4	1248.3	1230.2	1184.8	1175.6	1148.3
65°	1118.1	1124.2	1127.2	1121.1	1127.2	1124.2	1118.1	1108.9	1075.6	1060.5	1036.2
67.5°	984.8	981.7	978.7	990.8	978.7	981.7	984.8	972.7	951.4	939.3	906.0
70°	848.4	848.4	845.4	851.4	845.4	848.4	848.4	839.3	827.2	818.1	787.8
72.5°	703.0	700.0	712.0	703.0	712.0	700.0	703.0	700.0	693.9	684.7	654.5
75°	560.6	566.6	560.6	569.6	560.6	566.6	560.6	563.6	560.6	554.5	533.2
77.5°	427.2	433.3	427.2	427.2	427.2	433.3	427.2	430.3	430.3	430.3	412.1
80°	303.0	299.9	299.9	297.0	299.9	299.9	303.0	303.0	306.0	299.9	293.9
82.5°	193.9	190.9	190.9	197.0	190.9	190.9	193.9	197.0	190.9	190.9	190.9
85°	106.0	109.0	103.1	103.1	103.1	109.0	106.0	100.0	106.0	106.0	103.1
87.5°	39.4	36.3	36.3	36.3	36.3	36.3	39.4	42.4	42.4	42.4	45.5
90°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.0	12.1	13.6	11.7
92.5°	34.1	32.8	27.3	21.8	27.3	32.8	34.1	48.3	67.2	76.7	67.4
95°	115.7	111.6	95.2	78.7	95.2	111.6	115.7	151.9	200.2	224.4	189.4
97.5°	267.1	259.3	227.9	196.7	227.9	259.3	267.1	290.0	320.5	335.7	277.5
100°	375.0	365.7	328.5	291.2	328.5	365.7	375.0	373.3	371.1	369.9	305.4
102.5°	467.2	459.2	427.3	395.5	427.3	459.2	467.2	438.0	399.1	379.7	314.3
105°	574.8	570.5	553.4	536.2	553.4	570.5	574.8	509.4	422.2	378.6	315.2
107.5°	630.7	631.8	635.9	640.1	635.9	631.8	630.7	539.5	417.8	357.1	301.2
110°	645.1	649.5	667.4	685.3	667.4	649.5	645.1	543.1	407.1	339.1	288.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	635.9	642.8	670.2	697.6	670.2	642.8	635.9	531.5	392.4	322.8	277.9
115°	605.0	614.5	652.5	690.5	652.5	614.5	605.0	504.4	370.3	303.2	265.5
117.5°	562.1	572.6	614.8	657.0	614.8	572.6	562.1	471.3	350.3	289.8	257.7
120°	533.2	543.4	584.4	625.4	584.4	543.4	533.2	450.3	339.7	284.4	255.1
122.5°	504.3	514.4	554.8	595.2	554.8	514.4	504.3	429.7	330.1	280.3	253.6
125°	466.1	475.4	512.7	549.9	512.7	475.4	466.1	402.7	318.1	275.8	252.6
127.5°	435.5	443.4	474.7	506.1	474.7	443.4	435.5	381.0	308.4	272.1	251.9
130°	416.1	423.3	452.3	481.3	452.3	423.3	416.1	367.6	303.0	270.7	252.3
132.5°	399.6	406.1	432.1	458.0	432.1	406.1	399.6	356.2	298.3	269.4	252.6
135°	376.3	381.9	404.2	426.6	404.2	381.9	376.3	339.9	291.5	267.3	252.3
137.5°	359.0	363.6	381.9	400.3	381.9	363.6	359.0	328.3	287.4	266.9	253.8
140°	345.2	349.5	366.6	383.8	366.6	349.5	345.2	318.7	283.4	265.6	254.1
142.5°	335.6	339.2	354.0	368.7	354.0	339.2	335.6	312.3	281.2	265.6	255.1
145°	321.1	323.8	335.0	346.1	335.0	323.8	321.1	302.0	276.6	263.8	255.1
147.5°	308.8	311.1	320.3	329.7	320.3	311.1	308.8	293.8	273.9	263.8	256.8
150°	301.8	303.7	311.2	318.7	311.2	303.7	301.8	289.2	272.3	263.8	257.7
152.5°	296.3	297.7	303.3	309.0	303.3	297.7	296.3	285.4	271.0	263.8	258.3
155°	289.6	290.5	294.3	298.0	294.3	290.5	289.6	281.0	269.6	263.8	259.6
157.5°	283.9	284.5	287.2	289.8	287.2	284.5	283.9	277.2	268.3	263.8	260.9
160°	281.0	281.4	282.9	284.4	282.9	281.4	281.0	275.3	267.7	263.8	261.5
162.5°	278.4	278.7	280.1	281.6	280.1	278.7	278.4	273.5	267.1	263.8	262.1
165°	274.2	274.6	276.1	277.6	276.1	274.6	274.2	270.7	266.2	263.8	263.1
167.5°	272.4	272.6	273.2	273.9	273.2	272.6	272.4	270.2	267.2	265.6	265.0
170°	272.4	272.4	272.4	272.4	272.4	272.4	272.4	270.2	267.2	265.6	265.6
172.5°	271.0	270.8	270.3	269.8	270.3	270.8	271.0	269.2	266.8	265.6	265.6
175°	269.0	269.0	269.0	269.0	269.0	269.0	269.0	267.9	266.4	265.6	266.0
177.5°	268.7	268.5	267.9	267.3	267.9	268.5	268.7	267.8	266.6	266.0	266.3
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



TEST NUMBER: P934166

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3202.7	3202.7	3202.7	3202.7	3202.7
2.5°	3163.3	3178.4	3187.6	3199.7	3229.9
5°	3042.1	3099.7	3117.8	3163.3	3217.8
7.5°	2775.5	2951.2	2999.7	3108.8	3193.6
10°	2517.9	2693.6	2778.5	3036.0	3163.3
12.5°	2387.6	2490.7	2548.2	2908.8	3120.9
15°	2305.8	2378.6	2420.9	2739.1	3072.4
17.5°	2242.2	2293.7	2324.0	2572.5	3005.7
20°	2202.8	2227.0	2254.3	2451.3	2930.0
22.5°	2175.5	2160.4	2181.6	2366.4	2826.9
25°	2157.3	2099.8	2124.0	2299.8	2705.8
27.5°	2172.5	2045.3	2054.3	2239.2	2578.5
30°	2175.5	1978.5	1981.6	2175.5	2436.1
32.5°	2154.3	1908.9	1911.9	2096.7	2275.5
35°	2102.8	1827.1	1824.0	2005.9	2057.3
37.5°	2033.1	1739.2	1739.2	1905.9	1818.0
40°	1948.3	1651.3	1660.4	1775.6	1605.9
42.5°	1845.2	1557.4	1569.6	1602.9	1448.3
45°	1733.1	1466.5	1475.6	1354.4	1327.1
47.5°	1609.0	1372.6	1375.6	1124.2	1287.7
50°	1460.4	1275.6	1263.5	963.5	1284.7
52.5°	1330.2	1169.5	1133.2	872.7	1166.5
55°	1202.9	1057.5	978.7	802.9	1081.7
57.5°	1090.8	912.1	836.3	721.2	1063.5
60°	987.8	769.6	712.0	633.3	975.6
62.5°	902.9	663.6	651.4	572.6	884.7
65°	812.0	590.8	587.8	521.2	751.4
67.5°	724.1	542.4	539.3	472.6	572.6
70°	630.2	490.9	484.8	421.2	424.2
72.5°	533.2	433.3	427.2	378.7	351.5
75°	436.3	366.6	363.6	330.3	284.8
77.5°	342.4	290.9	297.0	266.6	209.1
80°	245.4	212.1	218.2	190.9	157.6
82.5°	163.7	139.4	145.4	121.2	106.0
85°	90.9	78.8	81.8	63.7	48.4
87.5°	42.4	36.3	36.3	24.3	15.1
90°	7.9	5.0	4.7	3.2	1.8
92.5°	48.7	34.6	31.6	19.3	7.2
95°	119.7	67.4	61.9	39.5	17.2
97.5°	161.2	74.0	69.1	49.5	29.8
100°	176.4	79.6	75.1	57.3	39.5
102.5°	183.4	85.1	81.0	64.4	47.7
105°	188.6	93.5	90.0	75.8	61.7
107.5°	189.4	105.6	102.3	89.2	76.0
110°	188.0	112.5	109.5	97.6	85.8



TEST NUMBER: P934166

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	188.1	120.7	117.8	106.5	95.3
115°	189.8	133.0	130.4	120.0	109.6
117.5°	193.4	145.1	142.7	133.2	123.7
120°	196.3	152.1	149.9	140.9	132.0
122.5°	200.4	160.4	158.1	149.1	140.0
125°	205.9	170.9	168.9	160.7	152.5
127.5°	211.5	181.1	179.1	170.7	162.5
130°	215.5	187.9	185.7	176.8	167.9
132.5°	218.8	193.5	191.2	182.4	173.4
135°	222.4	200.0	198.0	189.8	181.7
137.5°	227.8	208.2	206.2	198.1	190.1
140°	231.1	213.8	211.9	204.5	197.1
142.5°	233.9	217.9	216.2	209.3	202.5
145°	237.4	224.2	222.7	216.8	210.8
147.5°	242.6	232.1	230.6	224.8	219.0
150°	245.4	236.2	234.8	229.6	224.4
152.5°	247.2	238.9	237.9	233.9	229.9
155°	251.1	244.8	244.1	241.1	238.2
157.5°	255.1	250.7	250.0	247.1	244.2
160°	256.9	253.4	252.8	250.6	248.4
162.5°	258.7	256.2	255.8	254.2	252.5
165°	261.6	260.4	260.1	258.6	257.0
167.5°	263.8	262.8	262.6	261.9	261.2
170°	265.5	265.5	265.3	264.6	263.8
172.5°	265.6	265.6	265.6	265.5	265.3
175°	266.7	267.3	267.3	267.3	267.3
177.5°	266.8	267.3	267.3	267.3	267.3
180°	267.3	267.3	267.3	267.3	267.3



TEST NUMBER: P934166
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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	16.79	18.05	17.41	18.68	19.39	19.63	20.89	20.25	21.52	22.23
	3H	17.30	18.43	17.93	19.07	19.82	21.01	22.14	21.64	22.78	23.52
	4H	17.51	18.58	18.16	19.22	19.98	21.47	22.54	22.12	23.19	23.95
	6H	17.65	18.63	18.31	19.29	20.07	21.78	22.77	22.44	23.42	24.20
	8H	17.66	18.60	18.33	19.28	20.06	21.87	22.81	22.54	23.49	24.27
	12H	17.64	18.54	18.32	19.22	20.02	21.92	22.82	22.60	23.49	24.30
4H	2H	17.88	18.94	18.53	19.59	20.35	20.09	21.15	20.74	21.80	22.56
	3H	18.94	19.83	19.60	20.52	21.30	21.63	22.52	22.30	23.21	23.99
	4H	19.23	20.04	19.91	20.73	21.54	22.18	22.98	22.86	23.68	24.49
	6H	19.38	20.08	20.08	20.79	21.62	22.57	23.27	23.27	23.98	24.81
	8H	19.39	20.05	20.10	20.76	21.59	22.68	23.34	23.39	24.05	24.89
	12H	19.38	19.97	20.11	20.71	21.54	22.76	23.35	23.49	24.09	24.93
8H	4H	19.72	20.37	20.42	21.09	21.92	22.33	22.99	23.04	23.70	24.53
	6H	20.00	20.54	20.73	21.29	22.13	22.79	23.33	23.53	24.09	24.92
	8H	20.04	20.53	20.79	21.28	22.14	22.95	23.43	23.69	24.19	25.04
	12H	20.04	20.47	20.79	21.22	22.13	23.06	23.49	23.81	24.24	25.15
12H	4H	19.74	20.33	20.47	21.07	21.91	22.32	22.90	23.04	23.64	24.48
	6H	20.06	20.54	20.81	21.30	22.15	22.79	23.27	23.54	24.03	24.88
	8H	20.14	20.57	20.90	21.32	22.23	22.97	23.40	23.72	24.14	25.06