

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: P934237

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934237
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

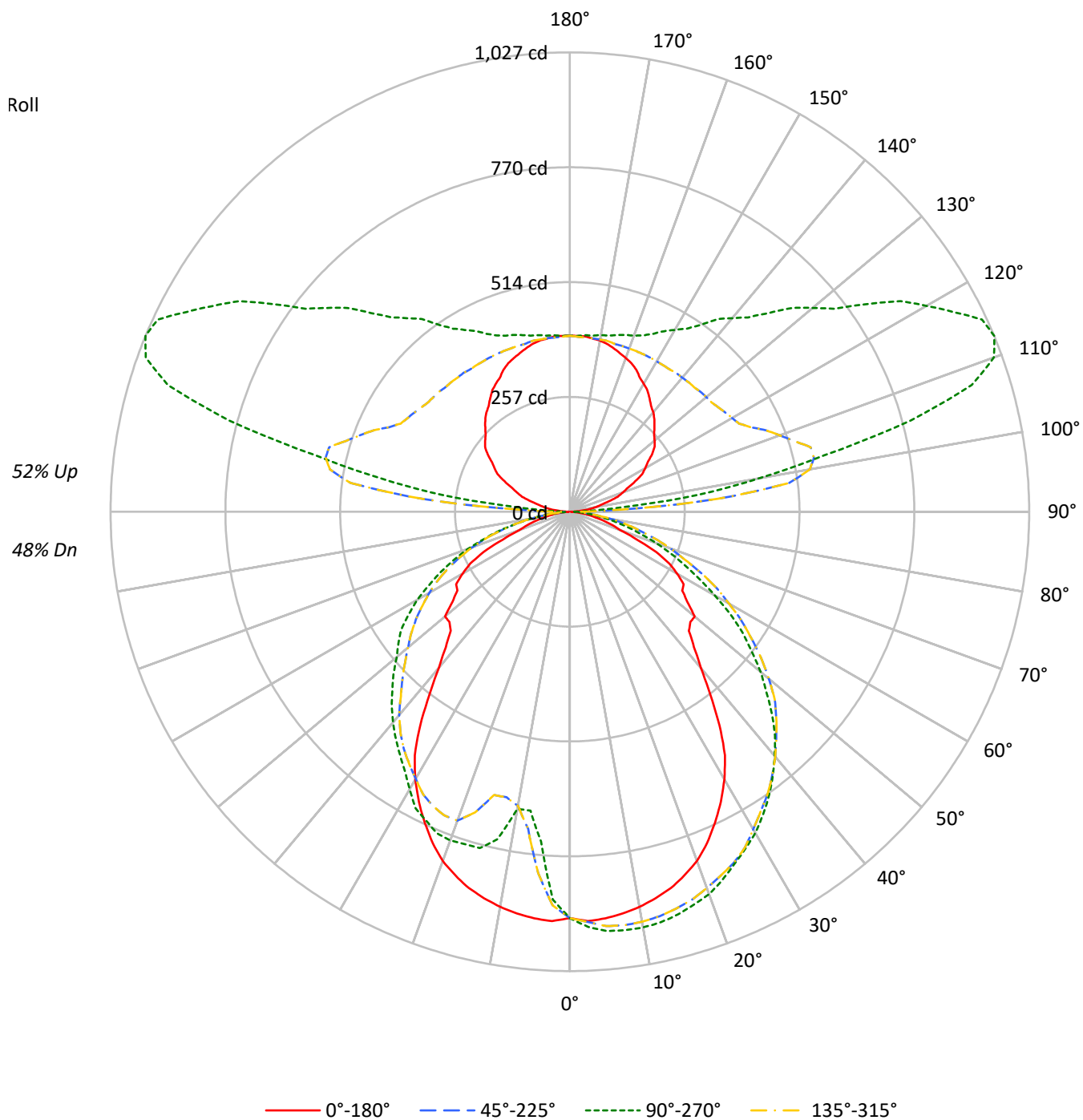
Lumens per Lamp: N/A
Luminaire Lumens: 4907.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 42.6
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: P934237

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-2700K

Luminous Intensity Polar Plot



TEST NUMBER: P934237

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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5618	5618	5618	5618
5°	5658	5671	5658	4459
10°	5618	5587	5618	3994
15°	5555	5466	5555	4564
20°	5437	5322	5437	4573
25°	5197	5113	5197	4477
30°	4887	4940	4887	4264
35°	4356	4720	4356	4030
40°	3627	4461	3627	3853
45°	3238	4158	3238	3650
50°	3438	3798	3438	3446
55°	3231	3409	3231	3328
60°	3327	2895	3327	3048
65°	3012	2393	3012	2675
70°	2081	1907	2081	2243
75°	1818	1410	1818	1688
80°	1455	932	1455	1015
85°	823	493	823	419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 4967 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	1.7
10°-20°	232.8	4.7
20°-30°	359.8	7.3
30°-40°	429.5	8.8
40°-50°	432.1	8.8
50°-60°	375.9	7.7
60°-70°	266.6	5.4
70°-80°	141.0	2.9
80°-90°	36.6	0.7
90°-100°	191.8	3.9
100°-110°	504.2	10.3
110°-120°	522.8	10.7
120°-130°	419.4	8.5
130°-140°	329.1	6.7
140°-150°	252.6	5.1
150°-160°	181.9	3.7
160°-170°	111.3	2.3
170°-180°	37.6	0.8
0°-30°	674.6	13.7
0°-40°	1104.1	22.5
0°-60°	1912.1	39.0
0°-90°	2356.4	48.0
90°-120°	1218.9	24.8
90°-150°	2219.9	45.2
90°-180°	2551.0	52.0
0°-180°	4907.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	908	908	908	908	908	
5°	912	941	912	740	912	87
15°	871	932	871	778	871	245
25°	767	870	767	761	767	352
35°	584	776	584	662	584	361
45°	376	639	376	561	376	301
55°	307	472	307	460	307	282
65°	213	284	213	318	213	204
75°	81	135	81	162	81	85
85°	14	34	14	29	14	19
90°	3	10	3	10	3	3
95°	25	116	25	116	25	28
105°	91	790	91	790	91	96
115°	161	1017	161	1017	161	159
125°	224	810	224	810	224	199
135°	268	628	268	628	268	207
145°	310	510	310	510	310	194
155°	351	439	351	439	351	161
165°	378	409	378	409	378	107
175°	394	396	394	396	394	37
180°	394	394	394	394	394	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	916.0	916.0	921.1	922.8	922.8	920.2	917.7	920.2	928.0	930.6	929.7
5°	912.5	919.4	928.9	930.6	932.3	931.4	929.7	931.4	940.0	941.8	942.6
7.5°	905.6	918.5	930.6	933.1	935.7	933.1	932.3	934.0	942.6	944.3	944.3
10°	897.0	915.1	928.9	930.6	933.1	930.6	930.6	934.0	942.6	944.3	945.2
12.5°	885.0	909.9	922.8	924.5	928.0	927.2	926.2	929.7	938.3	940.0	940.0
15°	871.3	900.5	912.5	914.3	920.2	918.5	918.5	921.9	931.4	934.0	933.1
17.5°	852.3	888.5	902.2	904.8	909.0	908.2	909.0	912.5	921.1	922.8	923.7
20°	830.9	872.2	888.5	891.0	895.3	895.3	895.3	899.7	908.2	911.6	911.6
22.5°	801.7	854.9	872.2	873.9	879.0	879.0	880.7	886.8	894.4	895.3	895.3
25°	767.3	836.0	850.6	855.8	861.0	863.5	866.1	869.6	872.2	871.3	872.2
27.5°	731.2	811.9	830.9	834.3	841.2	843.8	847.2	848.1	848.9	851.5	849.8
30°	690.8	778.5	806.8	810.2	821.4	823.1	819.7	821.4	825.7	827.5	829.2
32.5°	645.3	728.7	781.9	789.6	800.0	794.8	793.9	796.5	803.4	803.4	805.1
35°	583.5	690.0	758.7	765.6	773.3	767.3	770.8	771.6	775.9	778.5	777.6
37.5°	515.6	656.5	734.6	739.8	745.8	738.1	743.3	745.8	749.2	747.5	747.5
40°	455.4	604.0	706.3	709.7	714.9	708.8	714.1	715.8	717.5	715.8	714.9
42.5°	410.8	546.5	676.2	680.5	677.1	681.3	683.1	686.5	684.0	680.5	680.5
45°	376.3	531.0	643.6	648.7	643.6	650.4	653.0	653.0	645.3	643.6	642.7
47.5°	365.1	500.1	611.0	611.0	608.3	616.9	621.2	615.2	607.5	604.9	604.9
50°	364.3	465.7	566.2	562.8	574.8	585.2	580.8	574.8	568.8	559.4	559.4
52.5°	330.8	423.6	508.6	521.5	540.5	546.5	539.6	533.6	523.2	519.0	515.6
55°	306.7	379.7	456.3	482.1	501.8	509.5	496.7	490.6	475.2	472.6	470.9
57.5°	301.6	316.2	408.1	440.8	464.8	464.0	456.3	445.1	432.2	429.6	428.8
60°	276.7	228.6	356.6	395.3	420.1	417.6	410.8	400.4	388.4	386.7	385.0
62.5°	250.9	165.9	298.2	342.0	377.2	376.3	370.3	354.9	346.3	342.0	338.6
65°	213.1	139.2	212.3	284.4	335.1	336.8	324.0	312.8	303.3	298.2	297.3
67.5°	162.4	113.4	143.5	237.2	294.8	293.0	276.7	271.5	259.5	256.9	251.8
70°	120.3	75.6	99.7	192.4	255.2	250.9	238.0	232.0	220.8	214.8	211.4
72.5°	99.7	61.0	73.0	149.5	214.8	209.7	198.5	191.6	182.2	177.0	173.6
75°	80.8	64.4	55.9	110.9	174.4	171.0	160.7	153.8	146.1	139.2	140.1
77.5°	59.3	60.1	44.7	81.7	138.4	133.2	127.2	118.6	115.1	108.3	108.3
80°	44.7	47.2	33.5	55.9	99.7	99.7	94.6	88.5	82.5	79.1	79.1
82.5°	30.1	30.1	24.9	35.2	67.9	65.3	61.8	60.1	56.7	55.0	55.0
85°	13.8	17.2	15.5	21.4	37.0	38.7	38.7	37.0	36.1	34.3	35.2
87.5°	4.3	7.8	9.5	12.0	18.9	19.7	20.6	20.6	20.6	21.4	21.4
90°	2.6	4.8	6.9	7.4	11.6	17.3	20.1	17.9	13.3	10.0	10.0
92.5°	10.6	28.5	46.5	51.0	71.7	99.2	113.0	99.0	71.1	50.1	48.2
95°	25.4	58.2	91.1	99.2	176.3	279.0	330.4	294.8	223.7	170.3	164.2
97.5°	43.8	72.9	101.8	109.1	237.5	408.8	494.4	471.9	426.9	393.2	381.6
100°	58.1	84.4	110.7	117.3	259.7	449.8	544.8	546.4	549.7	552.2	538.5
102.5°	70.2	94.8	119.3	125.5	270.0	462.7	559.0	587.6	645.0	687.9	676.2
105°	90.9	111.6	132.4	137.6	277.5	464.1	557.4	621.6	750.0	846.4	840.0
107.5°	112.0	131.4	150.7	155.5	279.0	443.5	525.7	615.2	794.3	928.7	930.2
110°	126.2	143.7	161.2	165.5	276.8	425.2	499.3	599.4	799.7	949.9	956.5

TEST NUMBER: P934237

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	140.2	156.9	173.6	177.7	276.9	409.2	475.3	577.8	782.7	936.4	946.5
115°	161.3	176.7	192.1	195.9	279.5	390.8	446.5	545.3	742.7	890.7	904.7
117.5°	182.2	196.2	210.1	213.6	284.7	379.4	426.7	515.8	694.0	827.6	843.1
120°	194.3	207.5	220.6	224.0	288.9	375.5	418.8	500.2	663.0	785.0	800.1
122.5°	206.3	219.5	232.7	236.1	294.9	373.4	412.7	486.0	632.7	742.6	757.4
125°	224.5	236.5	248.6	251.6	303.1	371.8	406.1	468.4	592.9	686.3	700.0
127.5°	239.2	251.5	263.7	266.7	311.3	370.9	400.6	454.1	560.9	641.1	652.6
130°	247.2	260.3	273.5	276.7	317.3	371.4	398.5	446.0	541.3	612.7	623.3
132.5°	255.4	268.5	281.7	284.9	322.2	371.8	396.7	439.3	524.4	588.3	597.9
135°	267.5	279.5	291.4	294.4	327.5	371.5	393.5	429.2	500.5	554.0	562.3
137.5°	279.9	291.8	303.6	306.5	335.3	373.7	392.9	423.0	483.4	528.6	535.4
140°	290.2	301.2	312.0	314.7	340.2	374.1	391.1	417.2	469.3	508.3	514.6
142.5°	298.1	308.2	318.2	320.8	344.2	375.5	391.1	414.0	459.7	494.0	499.5
145°	310.3	319.1	327.9	330.1	349.6	375.5	388.5	407.2	444.6	472.7	476.8
147.5°	322.4	331.0	339.6	341.7	357.3	378.0	388.5	403.1	432.6	454.7	458.2
150°	330.4	338.1	345.8	347.8	361.4	379.4	388.5	400.9	425.8	444.4	447.1
152.5°	338.5	344.4	350.3	351.7	363.9	380.3	388.5	399.0	420.3	436.2	438.3
155°	350.7	355.1	359.3	360.4	369.8	382.2	388.5	396.9	413.8	426.5	427.8
157.5°	359.7	363.9	368.1	369.2	375.6	384.2	388.5	395.0	408.2	418.0	418.9
160°	365.7	369.0	372.2	373.1	378.2	385.0	388.5	394.1	405.4	413.8	414.3
162.5°	371.8	374.3	376.8	377.4	381.0	386.0	388.5	393.2	402.7	409.8	410.3
165°	378.4	380.6	382.8	383.4	385.1	387.3	388.5	391.9	398.6	403.7	404.3
167.5°	384.4	385.5	386.6	386.8	388.3	390.2	391.1	393.3	397.8	401.1	401.4
170°	388.5	389.5	390.6	390.8	390.9	391.0	391.1	393.3	397.8	401.1	401.1
172.5°	390.6	390.8	391.0	391.1	391.1	391.1	391.1	392.8	396.3	399.0	398.8
175°	393.5	393.5	393.5	393.5	392.7	391.6	391.1	392.2	394.4	396.1	396.1
177.5°	393.5	393.5	393.5	393.5	392.9	392.0	391.6	392.5	394.3	395.5	395.3
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	931.4	928.9	931.4	929.7	930.6	928.0	920.2	917.7	920.2	922.8	922.8
5°	942.6	940.8	942.6	942.6	941.8	940.0	931.4	929.7	931.4	932.3	930.6
7.5°	946.0	943.5	946.0	944.3	944.3	942.6	934.0	932.3	933.1	935.7	933.1
10°	946.0	943.5	946.0	945.2	944.3	942.6	934.0	930.6	930.6	933.1	930.6
12.5°	941.8	940.0	941.8	940.0	940.0	938.3	929.7	926.2	927.2	928.0	924.5
15°	934.8	932.3	934.8	933.1	934.0	931.4	921.9	918.5	918.5	920.2	914.3
17.5°	924.5	921.1	924.5	923.7	922.8	921.1	912.5	909.0	908.2	909.0	904.8
20°	912.5	909.9	912.5	911.6	911.6	908.2	899.7	895.3	895.3	895.3	891.0
22.5°	893.6	891.0	893.6	895.3	895.3	894.4	886.8	880.7	879.0	879.0	873.9
25°	872.2	869.6	872.2	872.2	871.3	872.2	869.6	866.1	863.5	861.0	855.8
27.5°	851.5	849.8	851.5	849.8	851.5	848.9	848.1	847.2	843.8	841.2	834.3
30°	830.9	829.2	830.9	829.2	827.5	825.7	821.4	819.7	823.1	821.4	810.2
32.5°	805.1	803.4	805.1	805.1	803.4	803.4	796.5	793.9	794.8	800.0	789.6
35°	778.5	775.9	778.5	777.6	778.5	775.9	771.6	770.8	767.3	773.3	765.6
37.5°	747.5	745.0	747.5	747.5	747.5	749.2	745.8	743.3	738.1	745.8	739.8
40°	715.8	712.3	715.8	714.9	715.8	717.5	715.8	714.1	708.8	714.9	709.7
42.5°	679.6	678.8	679.6	680.5	680.5	684.0	686.5	683.1	681.3	677.1	680.5
45°	641.0	639.2	641.0	642.7	643.6	645.3	653.0	653.0	650.4	643.6	648.7
47.5°	599.8	595.4	599.8	604.9	604.9	607.5	615.2	621.2	616.9	608.3	611.0
50°	556.0	556.8	556.0	559.4	559.4	568.8	574.8	580.8	585.2	574.8	562.8
52.5°	513.0	512.1	513.0	515.6	519.0	523.2	533.6	539.6	546.5	540.5	521.5
55°	470.0	471.7	470.0	470.9	472.6	475.2	490.6	496.7	509.5	501.8	482.1
57.5°	427.1	424.5	427.1	428.8	429.6	432.2	445.1	456.3	464.0	464.8	440.8
60°	377.2	373.8	377.2	385.0	386.7	388.4	400.4	410.8	417.6	420.1	395.3
62.5°	333.4	327.4	333.4	338.6	342.0	346.3	354.9	370.3	376.3	377.2	342.0
65°	287.0	284.4	287.0	297.3	298.2	303.3	312.8	324.0	336.8	335.1	284.4
67.5°	244.9	244.9	244.9	251.8	256.9	259.5	271.5	276.7	293.0	294.8	237.2
70°	206.2	205.3	206.2	211.4	214.8	220.8	232.0	238.0	250.9	255.2	192.4
72.5°	169.3	168.4	169.3	173.6	177.0	182.2	191.6	198.5	209.7	214.8	149.5
75°	136.7	134.9	136.7	140.1	139.2	146.1	153.8	160.7	171.0	174.4	110.9
77.5°	104.8	104.8	104.8	108.3	108.3	115.1	118.6	127.2	133.2	138.4	81.7
80°	78.2	77.3	78.2	79.1	79.1	82.5	88.5	94.6	99.7	99.7	55.9
82.5°	55.0	53.3	55.0	55.0	55.0	56.7	60.1	61.8	65.3	67.9	35.2
85°	34.3	34.3	34.3	35.2	34.3	36.1	37.0	38.7	38.7	37.0	21.4
87.5°	22.4	21.4	22.4	21.4	21.4	20.6	20.6	20.6	19.7	18.9	12.0
90°	10.0	10.0	10.0	10.0	10.0	13.3	17.9	20.1	17.3	11.6	7.4
92.5°	40.1	32.2	40.1	48.2	50.1	71.1	99.0	113.0	99.2	71.7	51.0
95°	140.1	115.9	140.1	164.2	170.3	223.7	294.8	330.4	279.0	176.3	99.2
97.5°	335.7	289.7	335.7	381.6	393.2	426.9	471.9	494.4	408.8	237.5	109.1
100°	483.7	428.9	483.7	538.5	552.2	549.7	546.4	544.8	449.8	259.7	117.3
102.5°	629.2	582.3	629.2	676.2	687.9	645.0	587.6	559.0	462.7	270.0	125.5
105°	814.8	789.6	814.8	840.0	846.4	750.0	621.6	557.4	464.1	277.5	137.6
107.5°	936.3	942.4	936.3	930.2	928.7	794.3	615.2	525.7	443.5	279.0	155.5
110°	982.7	1009.0	982.7	956.5	949.9	799.7	599.4	499.3	425.2	276.8	165.5

TEST NUMBER: P934237

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	986.9	1027.2	986.9	946.5	936.4	782.7	577.8	475.3	409.2	276.9	177.7
115°	960.6	1016.7	960.6	904.7	890.7	742.7	545.3	446.5	390.8	279.5	195.9
117.5°	905.2	967.3	905.2	843.1	827.6	694.0	515.8	426.7	379.4	284.7	213.6
120°	860.4	920.8	860.4	800.1	785.0	663.0	500.2	418.8	375.5	288.9	224.0
122.5°	817.0	876.4	817.0	757.4	742.6	632.7	486.0	412.7	373.4	294.9	236.1
125°	754.8	809.6	754.8	700.0	686.3	592.9	468.4	406.1	371.8	303.1	251.6
127.5°	698.9	745.2	698.9	652.6	641.1	560.9	454.1	400.6	370.9	311.3	266.7
130°	666.0	708.8	666.0	623.3	612.7	541.3	446.0	398.5	371.4	317.3	276.7
132.5°	636.2	674.4	636.2	597.9	588.3	524.4	439.3	396.7	371.8	322.2	284.9
135°	595.2	628.2	595.2	562.3	554.0	500.5	429.2	393.5	371.5	327.5	294.4
137.5°	562.4	589.4	562.4	535.4	528.6	483.4	423.0	392.9	373.7	335.3	306.5
140°	539.8	565.1	539.8	514.6	508.3	469.3	417.2	391.1	374.1	340.2	314.7
142.5°	521.2	542.9	521.2	499.5	494.0	459.7	414.0	391.1	375.5	344.2	320.8
145°	493.3	509.7	493.3	476.8	472.7	444.6	407.2	388.5	375.5	349.6	330.1
147.5°	471.7	485.3	471.7	458.2	454.7	432.6	403.1	388.5	378.0	357.3	341.7
150°	458.2	469.3	458.2	447.1	444.4	425.8	400.9	388.5	379.4	361.4	347.8
152.5°	446.6	455.0	446.6	438.3	436.2	420.3	399.0	388.5	380.3	363.9	351.7
155°	433.4	438.9	433.4	427.8	426.5	413.8	396.9	388.5	382.2	369.8	360.4
157.5°	422.9	426.7	422.9	418.9	418.0	408.2	395.0	388.5	384.2	375.6	369.2
160°	416.6	418.8	416.6	414.3	413.8	405.4	394.1	388.5	385.0	378.2	373.1
162.5°	412.5	414.6	412.5	410.3	409.8	402.7	393.2	388.5	386.0	381.0	377.4
165°	406.6	408.8	406.6	404.3	403.7	398.6	391.9	388.5	387.3	385.1	383.4
167.5°	402.3	403.2	402.3	401.4	401.1	397.8	393.3	391.1	390.2	388.3	386.8
170°	401.1	401.1	401.1	401.1	401.1	397.8	393.3	391.1	391.0	390.9	390.8
172.5°	397.9	397.2	397.9	398.8	399.0	396.3	392.8	391.1	391.1	391.1	391.1
175°	396.1	396.1	396.1	396.1	396.1	394.4	392.2	391.1	391.6	392.7	393.5
177.5°	394.4	393.5	394.4	395.3	395.5	394.3	392.5	391.6	392.0	392.9	393.5
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5

TEST NUMBER: P934237

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	921.1	916.0	916.0	907.3	903.9	901.4	897.0	884.2	880.7	877.3	882.4
5°	928.9	919.4	912.5	897.0	884.2	879.0	862.7	831.7	811.1	795.6	787.1
7.5°	930.6	918.5	905.6	881.5	850.6	836.9	787.1	730.4	714.9	701.2	692.5
10°	928.9	915.1	897.0	861.0	787.9	763.8	714.1	677.1	667.6	665.0	667.6
12.5°	922.8	909.9	885.0	824.8	722.6	706.3	677.1	655.6	653.8	658.2	681.3
15°	912.5	900.5	871.3	776.7	686.5	674.5	653.8	646.1	655.6	685.7	755.3
17.5°	902.2	888.5	852.3	729.5	659.0	650.4	635.8	651.3	704.6	745.0	768.1
20°	888.5	872.2	830.9	695.1	639.2	631.5	624.6	694.2	734.6	749.2	762.1
22.5°	872.2	854.9	801.7	671.1	618.6	612.7	616.9	718.3	734.6	745.0	756.2
25°	850.6	836.0	767.3	652.1	602.3	595.4	611.8	715.8	725.2	727.8	750.1
27.5°	830.9	811.9	731.2	635.0	582.6	580.0	616.1	704.6	711.5	714.1	738.1
30°	806.8	778.5	690.8	616.9	561.9	561.1	616.9	690.8	689.1	695.9	720.0
32.5°	781.9	728.7	645.3	594.6	542.2	541.3	611.0	670.2	668.5	677.9	695.9
35°	758.7	690.0	583.5	568.8	517.3	518.1	596.3	646.1	647.0	655.6	666.7
37.5°	734.6	656.5	515.6	540.5	493.2	493.2	576.5	623.8	622.1	624.6	640.2
40°	706.3	604.0	455.4	503.5	470.9	468.3	552.4	599.8	593.7	592.9	614.4
42.5°	676.2	546.5	410.8	454.6	445.1	441.7	523.2	570.6	559.4	561.9	589.4
45°	643.6	531.0	376.3	384.1	418.4	415.9	491.5	537.0	529.3	536.1	564.5
47.5°	611.0	500.1	365.1	318.8	390.1	389.2	456.3	504.4	500.1	506.9	537.0
50°	566.2	465.7	364.3	273.2	358.3	361.7	414.2	472.6	472.6	478.6	510.4
52.5°	508.6	423.6	330.8	247.4	321.3	331.7	377.2	445.1	446.8	452.9	481.1
55°	456.3	379.7	306.7	227.7	277.5	299.9	341.1	416.7	420.1	426.2	451.9
57.5°	408.1	316.2	301.6	204.5	237.2	258.6	309.4	389.2	390.9	396.1	421.0
60°	356.6	228.6	276.7	179.5	201.9	218.2	280.1	356.6	362.6	366.0	387.5
62.5°	298.2	165.9	250.9	162.4	184.7	188.2	256.1	325.7	333.4	335.9	348.8
65°	212.3	139.2	213.1	147.8	166.7	167.6	230.3	293.8	300.7	305.0	314.5
67.5°	143.5	113.4	162.4	134.0	153.0	153.8	205.3	256.9	266.4	269.8	275.8
70°	99.7	75.6	120.3	119.4	137.5	139.2	178.7	223.4	232.0	234.5	238.0
72.5°	73.0	61.0	99.7	107.4	121.1	122.9	151.3	185.6	194.2	196.8	198.5
75°	55.9	64.4	80.8	93.7	103.1	103.9	123.8	151.3	157.2	159.0	159.8
77.5°	44.7	60.1	59.3	75.6	84.2	82.5	97.1	116.8	122.0	122.0	122.0
80°	33.5	47.2	44.7	54.2	61.8	60.1	69.6	83.4	85.1	86.8	85.9
82.5°	24.9	30.1	30.1	34.3	41.3	39.5	46.4	54.2	54.2	54.2	55.9
85°	15.5	17.2	13.8	18.0	23.2	22.4	25.8	29.2	30.1	30.1	28.4
87.5°	9.5	7.8	4.3	6.8	10.3	10.3	12.0	12.9	12.0	12.0	12.0
90°	6.9	4.8	2.6	4.8	6.9	7.4	11.6	17.3	20.1	17.9	13.3
92.5°	46.5	28.5	10.6	28.5	46.5	51.0	71.7	99.2	113.0	99.0	71.1
95°	91.1	58.2	25.4	58.2	91.1	99.2	176.3	279.0	330.4	294.8	223.7
97.5°	101.8	72.9	43.8	72.9	101.8	109.1	237.5	408.8	494.4	471.9	426.9
100°	110.7	84.4	58.1	84.4	110.7	117.3	259.7	449.8	544.8	546.4	549.7
102.5°	119.3	94.8	70.2	94.8	119.3	125.5	270.0	462.7	559.0	587.6	645.0
105°	132.4	111.6	90.9	111.6	132.4	137.6	277.5	464.1	557.4	621.6	750.0
107.5°	150.7	131.4	112.0	131.4	150.7	155.5	279.0	443.5	525.7	615.2	794.3
110°	161.2	143.7	126.2	143.7	161.2	165.5	276.8	425.2	499.3	599.4	799.7

TEST NUMBER: P934237

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	173.6	156.9	140.2	156.9	173.6	177.7	276.9	409.2	475.3	577.8	782.7
115°	192.1	176.7	161.3	176.7	192.1	195.9	279.5	390.8	446.5	545.3	742.7
117.5°	210.1	196.2	182.2	196.2	210.1	213.6	284.7	379.4	426.7	515.8	694.0
120°	220.6	207.5	194.3	207.5	220.6	224.0	288.9	375.5	418.8	500.2	663.0
122.5°	232.7	219.5	206.3	219.5	232.7	236.1	294.9	373.4	412.7	486.0	632.7
125°	248.6	236.5	224.5	236.5	248.6	251.6	303.1	371.8	406.1	468.4	592.9
127.5°	263.7	251.5	239.2	251.5	263.7	266.7	311.3	370.9	400.6	454.1	560.9
130°	273.5	260.3	247.2	260.3	273.5	276.7	317.3	371.4	398.5	446.0	541.3
132.5°	281.7	268.5	255.4	268.5	281.7	284.9	322.2	371.8	396.7	439.3	524.4
135°	291.4	279.5	267.5	279.5	291.4	294.4	327.5	371.5	393.5	429.2	500.5
137.5°	303.6	291.8	279.9	291.8	303.6	306.5	335.3	373.7	392.9	423.0	483.4
140°	312.0	301.2	290.2	301.2	312.0	314.7	340.2	374.1	391.1	417.2	469.3
142.5°	318.2	308.2	298.1	308.2	318.2	320.8	344.2	375.5	391.1	414.0	459.7
145°	327.9	319.1	310.3	319.1	327.9	330.1	349.6	375.5	388.5	407.2	444.6
147.5°	339.6	331.0	322.4	331.0	339.6	341.7	357.3	378.0	388.5	403.1	432.6
150°	345.8	338.1	330.4	338.1	345.8	347.8	361.4	379.4	388.5	400.9	425.8
152.5°	350.3	344.4	338.5	344.4	350.3	351.7	363.9	380.3	388.5	399.0	420.3
155°	359.3	355.1	350.7	355.1	359.3	360.4	369.8	382.2	388.5	396.9	413.8
157.5°	368.1	363.9	359.7	363.9	368.1	369.2	375.6	384.2	388.5	395.0	408.2
160°	372.2	369.0	365.7	369.0	372.2	373.1	378.2	385.0	388.5	394.1	405.4
162.5°	376.8	374.3	371.8	374.3	376.8	377.4	381.0	386.0	388.5	393.2	402.7
165°	382.8	380.6	378.4	380.6	382.8	383.4	385.1	387.3	388.5	391.9	398.6
167.5°	386.6	385.5	384.4	385.5	386.6	386.8	388.3	390.2	391.1	393.3	397.8
170°	390.6	389.5	388.5	389.5	390.6	390.8	390.9	391.0	391.1	393.3	397.8
172.5°	391.0	390.8	390.6	390.8	391.0	391.1	391.1	391.1	391.1	392.8	396.3
175°	393.5	393.5	393.5	393.5	393.5	393.5	392.7	391.6	391.1	392.2	394.4
177.5°	393.5	393.5	393.5	393.5	393.5	393.5	392.9	392.0	391.6	392.5	394.3
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5

TEST NUMBER: P934237

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	876.4	873.9	877.3	867.8	877.3	873.9	876.4	882.4	877.3	880.7	884.2
5°	769.1	764.7	750.9	739.8	750.9	764.7	769.1	787.1	795.6	811.1	831.7
7.5°	687.4	684.0	680.5	673.7	680.5	684.0	687.4	692.5	701.2	714.9	730.4
10°	669.4	670.2	675.4	674.5	675.4	670.2	669.4	667.6	665.0	667.6	677.1
12.5°	715.8	723.4	751.8	750.1	751.8	723.4	715.8	681.3	658.2	653.8	655.6
15°	769.1	771.6	777.6	778.5	777.6	771.6	769.1	755.3	685.7	655.6	646.1
17.5°	774.2	775.0	779.3	779.3	779.3	775.0	774.2	768.1	745.0	704.6	651.3
20°	769.9	771.6	780.2	781.9	780.2	771.6	769.9	762.1	749.2	734.6	694.2
22.5°	768.1	771.6	778.5	777.6	778.5	771.6	768.1	756.2	745.0	734.6	718.3
25°	759.6	759.6	760.4	761.3	760.4	759.6	759.6	750.1	727.8	725.2	715.8
27.5°	741.6	743.3	748.4	747.5	748.4	743.3	741.6	738.1	714.1	711.5	704.6
30°	725.2	723.4	719.2	715.8	719.2	723.4	725.2	720.0	695.9	689.1	690.8
32.5°	697.7	693.4	689.1	686.5	689.1	693.4	697.7	695.9	677.9	668.5	670.2
35°	665.0	665.9	665.0	662.5	665.0	665.9	665.0	666.7	655.6	647.0	646.1
37.5°	641.9	643.6	642.7	639.2	642.7	643.6	641.9	640.2	624.6	622.1	623.8
40°	617.8	618.6	617.8	615.2	617.8	618.6	617.8	614.4	592.9	593.7	599.8
42.5°	594.6	593.7	591.1	589.4	591.1	593.7	594.6	589.4	561.9	559.4	570.6
45°	568.0	568.8	563.6	561.1	563.6	568.8	568.0	564.5	536.1	529.3	537.0
47.5°	541.3	541.3	537.0	534.4	537.0	541.3	541.3	537.0	506.9	500.1	504.4
50°	513.0	512.1	506.1	505.2	506.1	512.1	513.0	510.4	478.6	472.6	472.6
52.5°	480.3	480.3	481.1	482.9	481.1	480.3	480.3	481.1	452.9	446.8	445.1
55°	451.9	452.9	458.8	460.5	458.8	452.9	451.9	451.9	426.2	420.1	416.7
57.5°	422.7	422.7	427.1	427.1	427.1	422.7	422.7	421.0	396.1	390.9	389.2
60°	389.2	390.9	394.4	393.5	394.4	390.9	389.2	387.5	366.0	362.6	356.6
62.5°	354.0	355.7	356.6	354.9	356.6	355.7	354.0	348.8	335.9	333.4	325.7
65°	317.1	318.8	319.6	317.9	319.6	318.8	317.1	314.5	305.0	300.7	293.8
67.5°	279.2	278.4	277.5	281.0	277.5	278.4	279.2	275.8	269.8	266.4	256.9
70°	240.6	240.6	239.8	241.5	239.8	240.6	240.6	238.0	234.5	232.0	223.4
72.5°	199.4	198.5	201.9	199.4	201.9	198.5	199.4	198.5	196.8	194.2	185.6
75°	159.0	160.7	159.0	161.5	159.0	160.7	159.0	159.8	159.0	157.2	151.3
77.5°	121.1	122.9	121.1	121.1	121.1	122.9	121.1	122.0	122.0	122.0	116.8
80°	85.9	85.1	85.1	84.2	85.1	85.1	85.9	85.9	86.8	85.1	83.4
82.5°	55.0	54.2	54.2	55.9	54.2	54.2	55.0	55.9	54.2	54.2	54.2
85°	30.1	30.9	29.2	29.2	29.2	30.9	30.1	28.4	30.1	30.1	29.2
87.5°	11.2	10.3	10.3	10.3	10.3	10.3	11.2	12.0	12.0	12.0	12.9
90°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	13.3	17.9	20.1	17.3
92.5°	50.1	48.2	40.1	32.2	40.1	48.2	50.1	71.1	99.0	113.0	99.2
95°	170.3	164.2	140.1	115.9	140.1	164.2	170.3	223.7	294.8	330.4	279.0
97.5°	393.2	381.6	335.7	289.7	335.7	381.6	393.2	426.9	471.9	494.4	408.8
100°	552.2	538.5	483.7	428.9	483.7	538.5	552.2	549.7	546.4	544.8	449.8
102.5°	687.9	676.2	629.2	582.3	629.2	676.2	687.9	645.0	587.6	559.0	462.7
105°	846.4	840.0	814.8	789.6	814.8	840.0	846.4	750.0	621.6	557.4	464.1
107.5°	928.7	930.2	936.3	942.4	936.3	930.2	928.7	794.3	615.2	525.7	443.5
110°	949.9	956.5	982.7	1009.0	982.7	956.5	949.9	799.7	599.4	499.3	425.2

TEST NUMBER: P934237

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	936.4	946.5	986.9	1027.2	986.9	946.5	936.4	782.7	577.8	475.3	409.2
115°	890.7	904.7	960.6	1016.7	960.6	904.7	890.7	742.7	545.3	446.5	390.8
117.5°	827.6	843.1	905.2	967.3	905.2	843.1	827.6	694.0	515.8	426.7	379.4
120°	785.0	800.1	860.4	920.8	860.4	800.1	785.0	663.0	500.2	418.8	375.5
122.5°	742.6	757.4	817.0	876.4	817.0	757.4	742.6	632.7	486.0	412.7	373.4
125°	686.3	700.0	754.8	809.6	754.8	700.0	686.3	592.9	468.4	406.1	371.8
127.5°	641.1	652.6	698.9	745.2	698.9	652.6	641.1	560.9	454.1	400.6	370.9
130°	612.7	623.3	666.0	708.8	666.0	623.3	612.7	541.3	446.0	398.5	371.4
132.5°	588.3	597.9	636.2	674.4	636.2	597.9	588.3	524.4	439.3	396.7	371.8
135°	554.0	562.3	595.2	628.2	595.2	562.3	554.0	500.5	429.2	393.5	371.5
137.5°	528.6	535.4	562.4	589.4	562.4	535.4	528.6	483.4	423.0	392.9	373.7
140°	508.3	514.6	539.8	565.1	539.8	514.6	508.3	469.3	417.2	391.1	374.1
142.5°	494.0	499.5	521.2	542.9	521.2	499.5	494.0	459.7	414.0	391.1	375.5
145°	472.7	476.8	493.3	509.7	493.3	476.8	472.7	444.6	407.2	388.5	375.5
147.5°	454.7	458.2	471.7	485.3	471.7	458.2	454.7	432.6	403.1	388.5	378.0
150°	444.4	447.1	458.2	469.3	458.2	447.1	444.4	425.8	400.9	388.5	379.4
152.5°	436.2	438.3	446.6	455.0	446.6	438.3	436.2	420.3	399.0	388.5	380.3
155°	426.5	427.8	433.4	438.9	433.4	427.8	426.5	413.8	396.9	388.5	382.2
157.5°	418.0	418.9	422.9	426.7	422.9	418.9	418.0	408.2	395.0	388.5	384.2
160°	413.8	414.3	416.6	418.8	416.6	414.3	413.8	405.4	394.1	388.5	385.0
162.5°	409.8	410.3	412.5	414.6	412.5	410.3	409.8	402.7	393.2	388.5	386.0
165°	403.7	404.3	406.6	408.8	406.6	404.3	403.7	398.6	391.9	388.5	387.3
167.5°	401.1	401.4	402.3	403.2	402.3	401.4	401.1	397.8	393.3	391.1	390.2
170°	401.1	401.1	401.1	401.1	401.1	401.1	401.1	397.8	393.3	391.1	391.0
172.5°	399.0	398.8	397.9	397.2	397.9	398.8	399.0	396.3	392.8	391.1	391.1
175°	396.1	396.1	396.1	396.1	396.1	396.1	396.1	394.4	392.2	391.1	391.6
177.5°	395.5	395.3	394.4	393.5	394.4	395.3	395.5	394.3	392.5	391.6	392.0
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5

TEST NUMBER: P934237

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	908.2	908.2	908.2	908.2	908.2
2.5°	897.0	901.4	903.9	907.3	916.0
5°	862.7	879.0	884.2	897.0	912.5
7.5°	787.1	836.9	850.6	881.5	905.6
10°	714.1	763.8	787.9	861.0	897.0
12.5°	677.1	706.3	722.6	824.8	885.0
15°	653.8	674.5	686.5	776.7	871.3
17.5°	635.8	650.4	659.0	729.5	852.3
20°	624.6	631.5	639.2	695.1	830.9
22.5°	616.9	612.7	618.6	671.1	801.7
25°	611.8	595.4	602.3	652.1	767.3
27.5°	616.1	580.0	582.6	635.0	731.2
30°	616.9	561.1	561.9	616.9	690.8
32.5°	611.0	541.3	542.2	594.6	645.3
35°	596.3	518.1	517.3	568.8	583.5
37.5°	576.5	493.2	493.2	540.5	515.6
40°	552.4	468.3	470.9	503.5	455.4
42.5°	523.2	441.7	445.1	454.6	410.8
45°	491.5	415.9	418.4	384.1	376.3
47.5°	456.3	389.2	390.1	318.8	365.1
50°	414.2	361.7	358.3	273.2	364.3
52.5°	377.2	331.7	321.3	247.4	330.8
55°	341.1	299.9	277.5	227.7	306.7
57.5°	309.4	258.6	237.2	204.5	301.6
60°	280.1	218.2	201.9	179.5	276.7
62.5°	256.1	188.2	184.7	162.4	250.9
65°	230.3	167.6	166.7	147.8	213.1
67.5°	205.3	153.8	153.0	134.0	162.4
70°	178.7	139.2	137.5	119.4	120.3
72.5°	151.3	122.9	121.1	107.4	99.7
75°	123.8	103.9	103.1	93.7	80.8
77.5°	97.1	82.5	84.2	75.6	59.3
80°	69.6	60.1	61.8	54.2	44.7
82.5°	46.4	39.5	41.3	34.3	30.1
85°	25.8	22.4	23.2	18.0	13.8
87.5°	12.0	10.3	10.3	6.8	4.3
90°	11.6	7.4	6.9	4.8	2.6
92.5°	71.7	51.0	46.5	28.5	10.6
95°	176.3	99.2	91.1	58.2	25.4
97.5°	237.5	109.1	101.8	72.9	43.8
100°	259.7	117.3	110.7	84.4	58.1
102.5°	270.0	125.5	119.3	94.8	70.2
105°	277.5	137.6	132.4	111.6	90.9
107.5°	279.0	155.5	150.7	131.4	112.0
110°	276.8	165.5	161.2	143.7	126.2

TEST NUMBER: P934237

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	276.9	177.7	173.6	156.9	140.2
115°	279.5	195.9	192.1	176.7	161.3
117.5°	284.7	213.6	210.1	196.2	182.2
120°	288.9	224.0	220.6	207.5	194.3
122.5°	294.9	236.1	232.7	219.5	206.3
125°	303.1	251.6	248.6	236.5	224.5
127.5°	311.3	266.7	263.7	251.5	239.2
130°	317.3	276.7	273.5	260.3	247.2
132.5°	322.2	284.9	281.7	268.5	255.4
135°	327.5	294.4	291.4	279.5	267.5
137.5°	335.3	306.5	303.6	291.8	279.9
140°	340.2	314.7	312.0	301.2	290.2
142.5°	344.2	320.8	318.2	308.2	298.1
145°	349.6	330.1	327.9	319.1	310.3
147.5°	357.3	341.7	339.6	331.0	322.4
150°	361.4	347.8	345.8	338.1	330.4
152.5°	363.9	351.7	350.3	344.4	338.5
155°	369.8	360.4	359.3	355.1	350.7
157.5°	375.6	369.2	368.1	363.9	359.7
160°	378.2	373.1	372.2	369.0	365.7
162.5°	381.0	377.4	376.8	374.3	371.8
165°	385.1	383.4	382.8	380.6	378.4
167.5°	388.3	386.8	386.6	385.5	384.4
170°	390.9	390.8	390.6	389.5	388.5
172.5°	391.1	391.1	391.0	390.8	390.6
175°	392.7	393.5	393.5	393.5	393.5
177.5°	392.9	393.5	393.5	393.5	393.5
180°	393.5	393.5	393.5	393.5	393.5

TEST NUMBER: P934237

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-2700K

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	10.61	11.46	11.59	12.44	13.74	13.44	14.28	14.41	15.27	16.57
	3H	11.09	11.84	12.07	12.84	14.16	14.78	15.54	15.77	16.53	17.85
	4H	11.28	11.99	12.28	13.00	14.32	15.22	15.94	16.22	16.94	18.27
	6H	11.40	12.06	12.41	13.06	14.40	15.51	16.16	16.51	17.17	18.51
	8H	11.40	12.03	12.41	13.05	14.39	15.58	16.21	16.59	17.23	18.57
	12H	11.37	11.97	12.39	12.98	14.34	15.62	16.21	16.64	17.23	18.59
4H	2H	11.64	12.36	12.65	13.36	14.69	13.85	14.56	14.85	15.56	16.89
	3H	12.67	13.26	13.68	14.29	15.64	15.35	15.94	16.36	16.97	18.32
	4H	12.94	13.49	13.96	14.51	15.88	15.87	16.42	16.90	17.44	18.81
	6H	13.07	13.54	14.10	14.58	15.94	16.24	16.71	17.27	17.75	19.11
	8H	13.07	13.51	14.11	14.55	15.93	16.34	16.78	17.38	17.82	19.20
	12H	13.04	13.43	14.09	14.49	15.87	16.40	16.79	17.45	17.85	19.23
8H	4H	13.39	13.83	14.43	14.87	16.25	16.00	16.44	17.03	17.47	18.85
	6H	13.66	14.02	14.71	15.10	16.47	16.43	16.79	17.49	17.87	19.25
	8H	13.70	14.02	14.76	15.08	16.47	16.58	16.90	17.65	17.97	19.36
	12H	13.68	13.96	14.75	15.02	16.46	16.68	16.96	17.75	18.02	19.45
12H	4H	13.40	13.80	14.45	14.85	16.23	15.96	16.36	17.01	17.41	18.79
	6H	13.72	14.03	14.78	15.10	16.49	16.43	16.75	17.49	17.81	19.21
	8H	13.78	14.06	14.85	15.12	16.56	16.59	16.87	17.66	17.93	19.36

END OF REPORT