

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: P933957

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933957
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

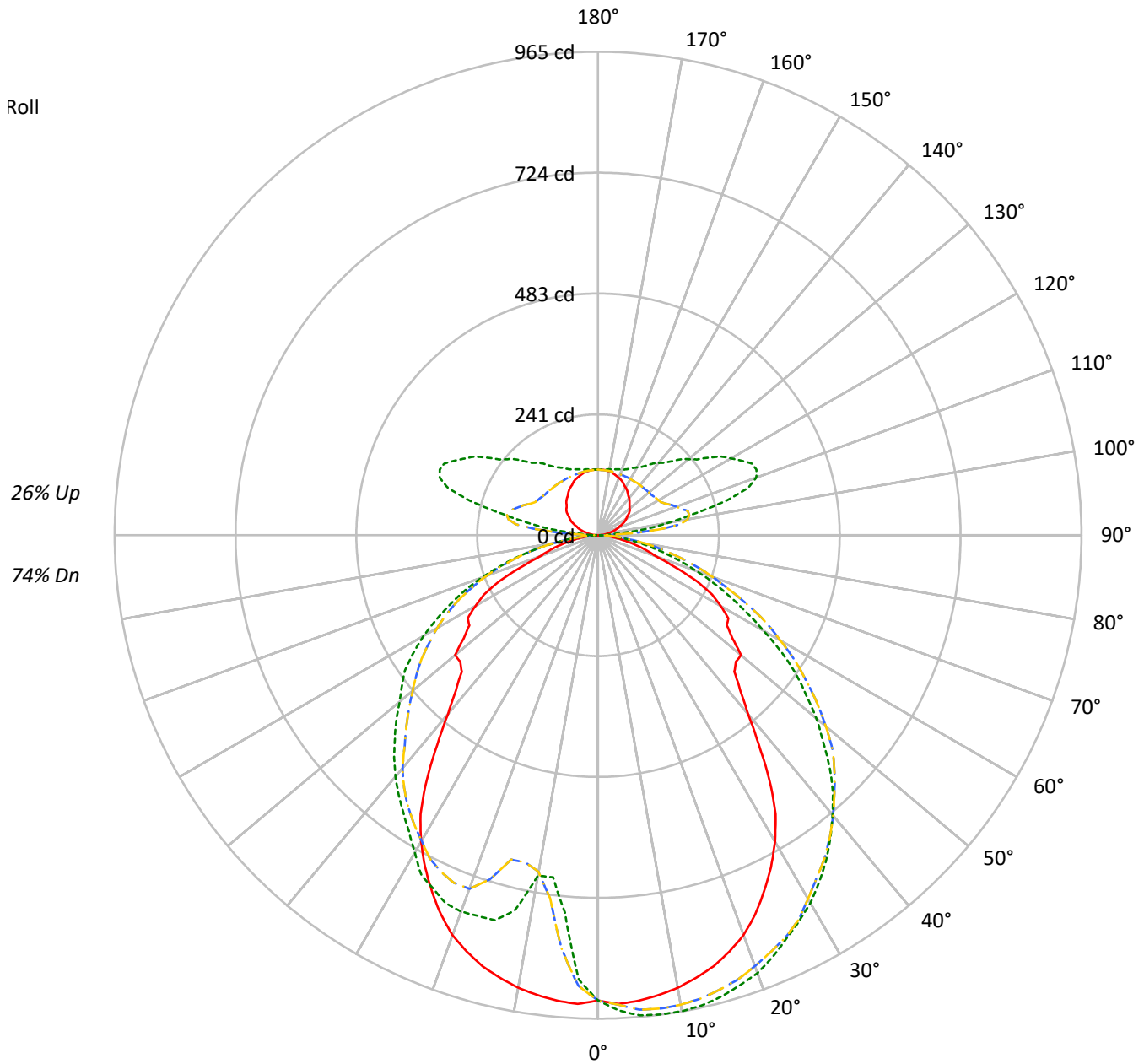
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3257.6 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 30
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: P933957
CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

Luminous Intensity Polar Plot



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



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8616	8616	8616	8616
5°	8670	8697	8670	6838
10°	8602	8568	8602	6125
15°	8500	8382	8500	6998
20°	8312	8161	8312	7013
25°	7939	7840	7939	6865
30°	7459	7574	7459	6538
35°	6641	7238	6641	6180
40°	5524	6841	5524	5909
45°	4926	6377	4926	5597
50°	5222	5824	5222	5284
55°	4898	5228	4898	5104
60°	5031	4440	5031	4674
65°	4539	3669	4539	4104
70°	3123	2924	3123	3438
75°	2709	2162	2709	2588
80°	2139	1428	2139	1557
85°	1168	756	1168	644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7564 cd/sqm



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	2.6
10°-20°	238.0	7.3
20°-30°	367.8	11.3
30°-40°	439.1	13.5
40°-50°	441.7	13.6
50°-60°	384.4	11.8
60°-70°	272.5	8.4
70°-80°	144.2	4.4
80°-90°	36.4	1.1
90°-100°	63.9	2.0
100°-110°	168.0	5.2
110°-120°	174.2	5.3
120°-130°	139.7	4.3
130°-140°	109.6	3.4
140°-150°	84.1	2.6
150°-160°	60.6	1.9
160°-170°	37.1	1.1
170°-180°	12.5	0.4
0°-30°	689.6	21.2
0°-40°	1128.8	34.7
0°-60°	1954.8	60.0
0°-90°	2407.9	73.9
90°-120°	406.0	12.5
90°-150°	739.5	22.7
90°-180°	850.0	26.1
0°-180°	3257.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	928	928	928	928	928	
5°	933	962	933	756	933	88
15°	891	953	891	796	891	251
25°	784	889	784	778	784	360
35°	596	793	596	677	596	369
45°	385	654	385	574	385	308
55°	314	482	314	471	314	288
65°	218	291	218	325	218	208
75°	83	138	83	165	83	87
85°	14	35	14	30	14	19
90°	1	3	1	3	1	1
95°	8	39	8	39	8	9
105°	30	263	30	263	30	32
115°	54	339	54	339	54	53
125°	75	270	75	270	75	66
135°	89	209	89	209	89	69
145°	103	170	103	170	103	65
155°	117	146	117	146	117	54
165°	126	136	126	136	126	36
175°	131	132	131	132	131	12
180°	131	131	131	131	131	



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	936.4	936.4	941.7	943.5	943.5	940.8	938.2	940.8	948.7	951.4	950.5
5°	932.8	940.0	949.6	951.4	953.1	952.3	950.5	952.3	961.0	962.8	963.7
7.5°	925.8	939.1	951.4	954.0	956.6	954.0	953.1	954.9	963.7	965.4	965.4
10°	917.0	935.5	949.6	951.4	954.0	951.4	951.4	954.9	963.7	965.4	966.3
12.5°	904.7	930.2	943.5	945.2	948.7	947.9	947.0	950.5	959.3	961.0	961.0
15°	890.7	920.5	932.8	934.6	940.8	939.1	939.1	942.6	952.3	954.9	954.0
17.5°	871.4	908.3	922.3	924.9	929.3	928.5	929.3	932.8	941.7	943.5	944.3
20°	849.4	891.6	908.3	910.9	915.3	915.3	915.3	919.7	928.5	932.0	932.0
22.5°	819.5	874.0	891.6	893.3	898.6	898.6	900.3	906.5	914.4	915.3	915.3
25°	784.4	854.7	869.6	874.9	880.1	882.8	885.4	888.9	891.6	890.7	891.6
27.5°	747.5	830.1	849.4	852.9	859.9	862.6	866.1	867.0	867.8	870.5	868.7
30°	706.2	795.8	824.8	828.3	839.7	841.5	838.0	839.7	844.1	845.9	847.6
32.5°	659.7	744.9	799.3	807.2	817.8	812.5	811.6	814.3	821.3	821.3	823.1
35°	596.5	705.4	775.6	782.7	790.6	784.4	787.9	788.8	793.2	795.8	795.0
37.5°	527.1	671.1	751.0	756.3	762.5	754.5	759.8	762.5	766.0	764.2	764.2
40°	465.6	617.5	722.1	725.6	730.8	724.7	730.0	731.7	733.5	731.7	730.8
42.5°	419.9	558.7	691.3	695.7	692.2	696.6	698.3	701.9	699.2	695.7	695.7
45°	384.8	542.9	657.9	663.2	657.9	665.0	667.6	667.6	659.7	657.9	657.1
47.5°	373.4	511.3	624.6	624.6	621.9	630.7	635.1	629.0	621.0	618.4	618.4
50°	372.5	476.1	578.9	575.4	587.7	598.2	593.8	587.7	581.5	571.9	571.9
52.5°	338.2	433.1	520.0	533.2	552.5	558.7	551.7	545.5	535.0	530.6	527.1
55°	313.6	388.3	466.5	492.8	513.0	520.9	507.7	501.6	485.8	483.2	481.4
57.5°	308.3	323.3	417.3	450.7	475.2	474.4	466.5	455.0	441.9	439.2	438.4
60°	282.8	233.6	364.6	404.1	429.6	426.9	419.9	409.4	397.1	395.3	393.6
62.5°	256.5	169.5	304.8	349.7	385.7	384.8	378.6	362.8	354.0	349.7	346.1
65°	217.8	142.3	216.9	290.7	342.6	344.4	331.2	319.8	310.0	304.8	303.9
67.5°	166.0	115.9	146.7	242.4	301.3	299.5	282.8	277.5	265.2	262.6	257.3
70°	123.0	77.3	101.9	196.7	260.9	256.5	243.3	237.1	225.7	219.6	216.1
72.5°	101.9	62.4	74.7	152.8	219.6	214.3	202.9	195.9	186.2	180.9	177.4
75°	82.6	65.9	57.1	113.3	178.3	174.8	164.2	157.2	149.3	142.3	143.2
77.5°	60.6	61.5	45.7	83.4	141.4	136.1	130.0	121.2	117.7	110.7	110.7
80°	45.7	48.3	34.3	57.1	101.9	101.9	96.6	90.5	84.3	80.8	80.8
82.5°	30.7	30.7	25.5	36.0	69.4	66.8	63.2	61.5	58.0	56.2	56.2
85°	14.1	17.6	15.8	22.0	37.8	39.5	39.5	37.8	36.9	35.1	36.0
87.5°	4.4	7.9	9.7	12.3	19.3	20.2	21.1	21.1	21.1	22.0	22.0
90°	0.9	1.6	2.3	2.5	3.9	5.7	6.7	6.0	4.5	3.3	3.3
92.5°	3.5	9.5	15.5	17.0	23.9	33.1	37.7	33.0	23.7	16.7	16.0
95°	8.4	19.4	30.4	33.1	58.8	92.9	110.1	98.2	74.5	56.7	54.7
97.5°	14.6	24.2	33.9	36.4	79.1	136.1	164.7	157.2	142.2	131.0	127.1
100°	19.3	28.1	36.9	39.1	86.5	149.8	181.5	182.0	183.1	183.9	179.3
102.5°	23.4	31.5	39.8	41.8	89.9	154.1	186.2	195.8	214.8	229.1	225.2
105°	30.3	37.2	44.1	45.8	92.5	154.6	185.7	207.1	249.9	281.9	279.8
107.5°	37.3	43.7	50.2	51.8	92.9	147.7	175.1	205.0	264.6	309.4	310.0
110°	42.1	47.9	53.7	55.2	92.2	141.7	166.4	199.7	266.4	316.5	318.6



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	46.7	52.3	57.8	59.2	92.2	136.3	158.4	192.5	260.8	312.0	315.3
115°	53.8	58.8	63.9	65.3	93.1	130.3	148.8	181.6	247.4	296.7	301.3
117.5°	60.7	65.3	70.0	71.1	94.9	126.4	142.2	171.9	231.2	275.7	280.9
120°	64.7	69.1	73.5	74.6	96.2	125.1	139.5	166.6	220.9	261.6	266.6
122.5°	68.7	73.1	77.5	78.6	98.2	124.4	137.5	161.9	210.7	247.3	252.2
125°	74.7	78.8	82.8	83.9	101.0	123.8	135.3	156.0	197.5	228.6	233.2
127.5°	79.7	83.8	87.8	88.9	103.7	123.5	133.4	151.2	186.9	213.6	217.5
130°	82.3	86.7	91.1	92.2	105.7	123.8	132.7	148.6	180.3	204.1	207.6
132.5°	85.1	89.5	93.9	94.9	107.3	123.8	132.1	146.3	174.7	196.0	199.2
135°	89.1	93.1	97.1	98.1	109.1	123.8	131.0	142.9	166.7	184.5	187.3
137.5°	93.3	97.2	101.2	102.1	111.7	124.5	130.9	140.9	161.0	176.1	178.4
140°	96.7	100.3	104.0	104.9	113.3	124.6	130.3	138.9	156.3	169.3	171.4
142.5°	99.3	102.7	106.0	106.9	114.7	125.1	130.3	137.9	153.2	164.6	166.4
145°	103.4	106.3	109.3	110.0	116.5	125.1	129.4	135.6	148.1	157.5	158.9
147.5°	107.4	110.2	113.1	113.8	119.0	125.9	129.4	134.3	144.1	151.5	152.6
150°	110.1	112.6	115.2	115.8	120.3	126.4	129.4	133.5	141.8	148.1	149.0
152.5°	112.8	114.7	116.6	117.2	121.2	126.7	129.4	132.9	140.0	145.4	146.1
155°	116.8	118.2	119.7	120.1	123.1	127.3	129.4	132.2	137.9	142.1	142.5
157.5°	119.8	121.2	122.6	123.0	125.1	128.0	129.4	131.6	136.0	139.2	139.6
160°	121.8	122.9	124.0	124.3	125.9	128.2	129.4	131.2	135.0	137.8	138.0
162.5°	123.8	124.6	125.5	125.7	126.9	128.6	129.4	131.0	134.1	136.5	136.7
165°	126.0	126.7	127.5	127.7	128.2	129.0	129.4	130.5	132.8	134.5	134.6
167.5°	128.1	128.4	128.8	128.8	129.3	129.9	130.3	131.0	132.4	133.6	133.7
170°	129.4	129.7	130.1	130.2	130.2	130.3	130.3	131.0	132.4	133.6	133.6
172.5°	130.1	130.2	130.3	130.3	130.3	130.3	130.3	130.9	132.0	132.9	132.8
175°	131.0	131.0	131.0	131.0	130.8	130.4	130.3	130.6	131.4	131.9	131.9
177.5°	131.0	131.0	131.0	131.0	130.9	130.6	130.4	130.7	131.3	131.7	131.7
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	952.3	949.6	952.3	950.5	951.4	948.7	940.8	938.2	940.8	943.5	943.5
5°	963.7	961.9	963.7	963.7	962.8	961.0	952.3	950.5	952.3	953.1	951.4
7.5°	967.2	964.6	967.2	965.4	965.4	963.7	954.9	953.1	954.0	956.6	954.0
10°	967.2	964.6	967.2	966.3	965.4	963.7	954.9	951.4	951.4	954.0	951.4
12.5°	962.8	961.0	962.8	961.0	961.0	959.3	950.5	947.0	947.9	948.7	945.2
15°	955.8	953.1	955.8	954.0	954.9	952.3	942.6	939.1	939.1	940.8	934.6
17.5°	945.2	941.7	945.2	944.3	943.5	941.7	932.8	929.3	928.5	929.3	924.9
20°	932.8	930.2	932.8	932.0	932.0	928.5	919.7	915.3	915.3	915.3	910.9
22.5°	913.5	910.9	913.5	915.3	915.3	914.4	906.5	900.3	898.6	898.6	893.3
25°	891.6	888.9	891.6	891.6	890.7	891.6	888.9	885.4	882.8	880.1	874.9
27.5°	870.5	868.7	870.5	868.7	870.5	867.8	867.0	866.1	862.6	859.9	852.9
30°	849.4	847.6	849.4	847.6	845.9	844.1	839.7	838.0	841.5	839.7	828.3
32.5°	823.1	821.3	823.1	823.1	821.3	821.3	814.3	811.6	812.5	817.8	807.2
35°	795.8	793.2	795.8	795.0	795.8	793.2	788.8	787.9	784.4	790.6	782.7
37.5°	764.2	761.6	764.2	764.2	764.2	766.0	762.5	759.8	754.5	762.5	756.3
40°	731.7	728.2	731.7	730.8	731.7	733.5	731.7	730.0	724.7	730.8	725.6
42.5°	694.8	693.9	694.8	695.7	695.7	699.2	701.9	698.3	696.6	692.2	695.7
45°	655.3	653.5	655.3	657.1	657.9	659.7	667.6	667.6	665.0	657.9	663.2
47.5°	613.1	608.8	613.1	618.4	618.4	621.0	629.0	635.1	630.7	621.9	624.6
50°	568.3	569.2	568.3	571.9	571.9	581.5	587.7	593.8	598.2	587.7	575.4
52.5°	524.4	523.6	524.4	527.1	530.6	535.0	545.5	551.7	558.7	552.5	533.2
55°	480.5	482.3	480.5	481.4	483.2	485.8	501.6	507.7	520.9	513.0	492.8
57.5°	436.6	434.0	436.6	438.4	439.2	441.9	455.0	466.5	474.4	475.2	450.7
60°	385.7	382.1	385.7	393.6	395.3	397.1	409.4	419.9	426.9	429.6	404.1
62.5°	340.9	334.7	340.9	346.1	349.7	354.0	362.8	378.6	384.8	385.7	349.7
65°	293.4	290.7	293.4	303.9	304.8	310.0	319.8	331.2	344.4	342.6	290.7
67.5°	250.3	250.3	250.3	257.3	262.6	265.2	277.5	282.8	299.5	301.3	242.4
70°	210.8	209.9	210.8	216.1	219.6	225.7	237.1	243.3	256.5	260.9	196.7
72.5°	173.0	172.1	173.0	177.4	180.9	186.2	195.9	202.9	214.3	219.6	152.8
75°	139.6	137.9	139.6	143.2	142.3	149.3	157.2	164.2	174.8	178.3	113.3
77.5°	107.2	107.2	107.2	110.7	110.7	117.7	121.2	130.0	136.1	141.4	83.4
80°	79.9	79.0	79.9	80.8	80.8	84.3	90.5	96.6	101.9	101.9	57.1
82.5°	56.2	54.5	56.2	56.2	56.2	58.0	61.5	63.2	66.8	69.4	36.0
85°	35.1	35.1	35.1	36.0	35.1	36.9	37.8	39.5	39.5	37.8	22.0
87.5°	22.8	22.0	22.8	22.0	22.0	21.1	21.1	21.1	20.2	19.3	12.3
90°	3.3	3.3	3.3	3.3	3.3	4.5	6.0	6.7	5.7	3.9	2.5
92.5°	13.4	10.7	13.4	16.0	16.7	23.7	33.0	37.7	33.1	23.9	17.0
95°	46.7	38.6	46.7	54.7	56.7	74.5	98.2	110.1	92.9	58.8	33.1
97.5°	111.8	96.5	111.8	127.1	131.0	142.2	157.2	164.7	136.1	79.1	36.4
100°	161.2	142.9	161.2	179.3	183.9	183.1	182.0	181.5	149.8	86.5	39.1
102.5°	209.6	193.9	209.6	225.2	229.1	214.8	195.8	186.2	154.1	89.9	41.8
105°	271.5	263.1	271.5	279.8	281.9	249.9	207.1	185.7	154.6	92.5	45.8
107.5°	312.0	314.0	312.0	310.0	309.4	264.6	205.0	175.1	147.7	92.9	51.8
110°	327.3	336.1	327.3	318.6	316.5	266.4	199.7	166.4	141.7	92.2	55.2



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	328.7	342.2	328.7	315.3	312.0	260.8	192.5	158.4	136.3	92.2	59.2
115°	320.1	338.7	320.1	301.3	296.7	247.4	181.6	148.8	130.3	93.1	65.3
117.5°	301.5	322.2	301.5	280.9	275.7	231.2	171.9	142.2	126.4	94.9	71.1
120°	286.7	306.7	286.7	266.6	261.6	220.9	166.6	139.5	125.1	96.2	74.6
122.5°	272.1	291.9	272.1	252.2	247.3	210.7	161.9	137.5	124.4	98.2	78.6
125°	251.5	269.7	251.5	233.2	228.6	197.5	156.0	135.3	123.8	101.0	83.9
127.5°	232.8	248.2	232.8	217.5	213.6	186.9	151.2	133.4	123.5	103.7	88.9
130°	221.9	236.1	221.9	207.6	204.1	180.3	148.6	132.7	123.8	105.7	92.2
132.5°	211.9	224.7	211.9	199.2	196.0	174.7	146.3	132.1	123.8	107.3	94.9
135°	198.3	209.3	198.3	187.3	184.5	166.7	142.9	131.0	123.8	109.1	98.1
137.5°	187.3	196.4	187.3	178.4	176.1	161.0	140.9	130.9	124.5	111.7	102.1
140°	179.8	188.2	179.8	171.4	169.3	156.3	138.9	130.3	124.6	113.3	104.9
142.5°	173.6	180.8	173.6	166.4	164.6	153.2	137.9	130.3	125.1	114.7	106.9
145°	164.3	169.8	164.3	158.9	157.5	148.1	135.6	129.4	125.1	116.5	110.0
147.5°	157.1	161.7	157.1	152.6	151.5	144.1	134.3	129.4	125.9	119.0	113.8
150°	152.6	156.3	152.6	149.0	148.1	141.8	133.5	129.4	126.4	120.3	115.8
152.5°	148.8	151.6	148.8	146.1	145.4	140.0	132.9	129.4	126.7	121.2	117.2
155°	144.4	146.2	144.4	142.5	142.1	137.9	132.2	129.4	127.3	123.1	120.1
157.5°	140.9	142.2	140.9	139.6	139.2	136.0	131.6	129.4	128.0	125.1	123.0
160°	138.8	139.5	138.8	138.0	137.8	135.0	131.2	129.4	128.2	125.9	124.3
162.5°	137.4	138.1	137.4	136.7	136.5	134.1	131.0	129.4	128.6	126.9	125.7
165°	135.4	136.1	135.4	134.6	134.5	132.8	130.5	129.4	129.0	128.2	127.7
167.5°	133.9	134.3	133.9	133.7	133.6	132.4	131.0	130.3	129.9	129.3	128.8
170°	133.6	133.6	133.6	133.6	133.6	132.4	131.0	130.3	130.3	130.2	130.2
172.5°	132.5	132.3	132.5	132.8	132.9	132.0	130.9	130.3	130.3	130.3	130.3
175°	131.9	131.9	131.9	131.9	131.9	131.4	130.6	130.3	130.4	130.8	131.0
177.5°	131.4	131.0	131.4	131.7	131.7	131.3	130.7	130.4	130.6	130.9	131.0
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	941.7	936.4	936.4	927.6	924.1	921.4	917.0	903.9	900.3	896.8	902.1
5°	949.6	940.0	932.8	917.0	903.9	898.6	881.9	850.3	829.2	813.4	804.6
7.5°	951.4	939.1	925.8	901.2	869.6	855.6	804.6	746.6	730.8	716.8	708.0
10°	949.6	935.5	917.0	880.1	805.5	780.9	730.0	692.2	682.5	679.9	682.5
12.5°	943.5	930.2	904.7	843.3	738.7	722.1	692.2	670.2	668.5	672.9	696.6
15°	932.8	920.5	890.7	794.1	701.9	689.6	668.5	660.6	670.2	701.0	772.1
17.5°	922.3	908.3	871.4	745.8	673.7	665.0	650.0	665.8	720.3	761.6	785.3
20°	908.3	891.6	849.4	710.6	653.5	645.6	638.6	709.8	751.0	766.0	779.1
22.5°	891.6	874.0	819.5	686.0	632.5	626.3	630.7	734.3	751.0	761.6	773.0
25°	869.6	854.7	784.4	666.7	615.8	608.8	625.4	731.7	741.4	744.0	766.8
27.5°	849.4	830.1	747.5	649.2	595.6	592.9	629.8	720.3	727.3	730.0	754.5
30°	824.8	795.8	706.2	630.7	574.5	573.6	630.7	706.2	704.5	711.5	736.1
32.5°	799.3	744.9	659.7	607.9	554.3	553.4	624.6	685.2	683.4	693.1	711.5
35°	775.6	705.4	596.5	581.5	528.8	529.7	609.6	660.6	661.4	670.2	681.6
37.5°	751.0	671.1	527.1	552.5	504.2	504.2	589.4	637.7	636.0	638.6	654.4
40°	722.1	617.5	465.6	514.8	481.4	478.8	564.8	613.1	607.0	606.1	628.1
42.5°	691.3	558.7	419.9	464.7	455.0	451.5	535.0	583.3	571.9	574.5	602.6
45°	657.9	542.9	384.8	392.7	427.8	425.2	502.5	549.0	541.1	548.1	577.1
47.5°	624.6	511.3	373.4	325.9	398.8	398.0	466.5	515.7	511.3	518.3	549.0
50°	578.9	476.1	372.5	279.3	366.3	369.9	423.4	483.2	483.2	489.3	521.8
52.5°	520.0	433.1	338.2	253.0	328.6	339.1	385.7	455.0	456.8	463.0	491.9
55°	466.5	388.3	313.6	232.7	283.7	306.5	348.8	426.1	429.6	435.7	462.1
57.5°	417.3	323.3	308.3	209.0	242.4	264.4	316.3	398.0	399.7	405.0	430.5
60°	364.6	233.6	282.8	183.6	206.4	223.1	286.3	364.6	370.7	374.2	396.2
62.5°	304.8	169.5	256.5	166.0	188.8	192.3	261.7	333.0	340.9	343.5	356.7
65°	216.9	142.3	217.8	151.1	170.4	171.3	235.4	300.4	307.4	311.8	321.5
67.5°	146.7	115.9	166.0	137.0	156.3	157.2	209.9	262.6	272.3	275.8	281.9
70°	101.9	77.3	123.0	122.1	140.5	142.3	182.7	228.4	237.1	239.8	243.3
72.5°	74.7	62.4	101.9	109.8	123.8	125.6	154.6	189.7	198.5	201.1	202.9
75°	57.1	65.9	82.6	95.7	105.4	106.3	126.5	154.6	160.7	162.5	163.4
77.5°	45.7	61.5	60.6	77.3	86.1	84.3	99.2	119.4	124.7	124.7	124.7
80°	34.3	48.3	45.7	55.3	63.2	61.5	71.1	85.2	87.0	88.7	87.8
82.5°	25.5	30.7	30.7	35.1	42.2	40.4	47.4	55.3	55.3	55.3	57.1
85°	15.8	17.6	14.1	18.4	23.7	22.8	26.3	29.9	30.7	30.7	29.0
87.5°	9.7	7.9	4.4	7.0	10.5	10.5	12.3	13.2	12.3	12.3	12.3
90°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.7	6.7	6.0	4.5
92.5°	15.5	9.5	3.5	9.5	15.5	17.0	23.9	33.1	37.7	33.0	23.7
95°	30.4	19.4	8.4	19.4	30.4	33.1	58.8	92.9	110.1	98.2	74.5
97.5°	33.9	24.2	14.6	24.2	33.9	36.4	79.1	136.1	164.7	157.2	142.2
100°	36.9	28.1	19.3	28.1	36.9	39.1	86.5	149.8	181.5	182.0	183.1
102.5°	39.8	31.5	23.4	31.5	39.8	41.8	89.9	154.1	186.2	195.8	214.8
105°	44.1	37.2	30.3	37.2	44.1	45.8	92.5	154.6	185.7	207.1	249.9
107.5°	50.2	43.7	37.3	43.7	50.2	51.8	92.9	147.7	175.1	205.0	264.6
110°	53.7	47.9	42.1	47.9	53.7	55.2	92.2	141.7	166.4	199.7	266.4



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	57.8	52.3	46.7	52.3	57.8	59.2	92.2	136.3	158.4	192.5	260.8
115°	63.9	58.8	53.8	58.8	63.9	65.3	93.1	130.3	148.8	181.6	247.4
117.5°	70.0	65.3	60.7	65.3	70.0	71.1	94.9	126.4	142.2	171.9	231.2
120°	73.5	69.1	64.7	69.1	73.5	74.6	96.2	125.1	139.5	166.6	220.9
122.5°	77.5	73.1	68.7	73.1	77.5	78.6	98.2	124.4	137.5	161.9	210.7
125°	82.8	78.8	74.7	78.8	82.8	83.9	101.0	123.8	135.3	156.0	197.5
127.5°	87.8	83.8	79.7	83.8	87.8	88.9	103.7	123.5	133.4	151.2	186.9
130°	91.1	86.7	82.3	86.7	91.1	92.2	105.7	123.8	132.7	148.6	180.3
132.5°	93.9	89.5	85.1	89.5	93.9	94.9	107.3	123.8	132.1	146.3	174.7
135°	97.1	93.1	89.1	93.1	97.1	98.1	109.1	123.8	131.0	142.9	166.7
137.5°	101.2	97.2	93.3	97.2	101.2	102.1	111.7	124.5	130.9	140.9	161.0
140°	104.0	100.3	96.7	100.3	104.0	104.9	113.3	124.6	130.3	138.9	156.3
142.5°	106.0	102.7	99.3	102.7	106.0	106.9	114.7	125.1	130.3	137.9	153.2
145°	109.3	106.3	103.4	106.3	109.3	110.0	116.5	125.1	129.4	135.6	148.1
147.5°	113.1	110.2	107.4	110.2	113.1	113.8	119.0	125.9	129.4	134.3	144.1
150°	115.2	112.6	110.1	112.6	115.2	115.8	120.3	126.4	129.4	133.5	141.8
152.5°	116.6	114.7	112.8	114.7	116.6	117.2	121.2	126.7	129.4	132.9	140.0
155°	119.7	118.2	116.8	118.2	119.7	120.1	123.1	127.3	129.4	132.2	137.9
157.5°	122.6	121.2	119.8	121.2	122.6	123.0	125.1	128.0	129.4	131.6	136.0
160°	124.0	122.9	121.8	122.9	124.0	124.3	125.9	128.2	129.4	131.2	135.0
162.5°	125.5	124.6	123.8	124.6	125.5	125.7	126.9	128.6	129.4	131.0	134.1
165°	127.5	126.7	126.0	126.7	127.5	127.7	128.2	129.0	129.4	130.5	132.8
167.5°	128.8	128.4	128.1	128.4	128.8	128.8	129.3	129.9	130.3	131.0	132.4
170°	130.1	129.7	129.4	129.7	130.1	130.2	130.2	130.3	130.3	131.0	132.4
172.5°	130.3	130.2	130.1	130.2	130.3	130.3	130.3	130.3	130.3	130.9	132.0
175°	131.0	131.0	131.0	131.0	131.0	131.0	130.8	130.4	130.3	130.6	131.4
177.5°	131.0	131.0	131.0	131.0	131.0	131.0	130.9	130.6	130.4	130.7	131.3
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	896.0	893.3	896.8	887.2	896.8	893.3	896.0	902.1	896.8	900.3	903.9
5°	786.2	781.8	767.7	756.3	767.7	781.8	786.2	804.6	813.4	829.2	850.3
7.5°	702.7	699.2	695.7	688.7	695.7	699.2	702.7	708.0	716.8	730.8	746.6
10°	684.3	685.2	690.4	689.6	690.4	685.2	684.3	682.5	679.9	682.5	692.2
12.5°	731.7	739.6	768.6	766.8	768.6	739.6	731.7	696.6	672.9	668.5	670.2
15°	786.2	788.8	795.0	795.8	795.0	788.8	786.2	772.1	701.0	670.2	660.6
17.5°	791.4	792.3	796.7	796.7	796.7	792.3	791.4	785.3	761.6	720.3	665.8
20°	787.0	788.8	797.6	799.3	797.6	788.8	787.0	779.1	766.0	751.0	709.8
22.5°	785.3	788.8	795.8	795.0	795.8	788.8	785.3	773.0	761.6	751.0	734.3
25°	776.5	776.5	777.4	778.3	777.4	776.5	776.5	766.8	744.0	741.4	731.7
27.5°	758.1	759.8	765.1	764.2	765.1	759.8	758.1	754.5	730.0	727.3	720.3
30°	741.4	739.6	735.2	731.7	735.2	739.6	741.4	736.1	711.5	704.5	706.2
32.5°	713.3	708.9	704.5	701.9	704.5	708.9	713.3	711.5	693.1	683.4	685.2
35°	679.9	680.8	679.9	677.3	679.9	680.8	679.9	681.6	670.2	661.4	660.6
37.5°	656.2	657.9	657.1	653.5	657.1	657.9	656.2	654.4	638.6	636.0	637.7
40°	631.6	632.5	631.6	629.0	631.6	632.5	631.6	628.1	606.1	607.0	613.1
42.5°	607.9	607.0	604.4	602.6	604.4	607.0	607.9	602.6	574.5	571.9	583.3
45°	580.6	581.5	576.3	573.6	576.3	581.5	580.6	577.1	548.1	541.1	549.0
47.5°	553.4	553.4	549.0	546.4	549.0	553.4	553.4	549.0	518.3	511.3	515.7
50°	524.4	523.6	517.4	516.5	517.4	523.6	524.4	521.8	489.3	483.2	483.2
52.5°	491.1	491.1	491.9	493.7	491.9	491.1	491.1	491.9	463.0	456.8	455.0
55°	462.1	463.0	469.1	470.9	469.1	463.0	462.1	462.1	435.7	429.6	426.1
57.5°	432.2	432.2	436.6	436.6	436.6	432.2	432.2	430.5	405.0	399.7	398.0
60°	398.0	399.7	403.2	402.3	403.2	399.7	398.0	396.2	374.2	370.7	364.6
62.5°	361.9	363.7	364.6	362.8	364.6	363.7	361.9	356.7	343.5	340.9	333.0
65°	324.2	325.9	326.8	325.1	326.8	325.9	324.2	321.5	311.8	307.4	300.4
67.5°	285.4	284.6	283.7	287.2	283.7	284.6	285.4	281.9	275.8	272.3	262.6
70°	245.9	245.9	245.0	246.8	245.0	245.9	245.9	243.3	239.8	237.1	228.4
72.5°	203.8	202.9	206.4	203.8	206.4	202.9	203.8	202.9	201.1	198.5	189.7
75°	162.5	164.2	162.5	165.1	162.5	164.2	162.5	163.4	162.5	160.7	154.6
77.5°	123.8	125.6	123.8	123.8	123.8	125.6	123.8	124.7	124.7	124.7	119.4
80°	87.8	87.0	87.0	86.1	87.0	87.0	87.8	87.8	88.7	87.0	85.2
82.5°	56.2	55.3	55.3	57.1	55.3	55.3	56.2	57.1	55.3	55.3	55.3
85°	30.7	31.6	29.9	29.9	29.9	31.6	30.7	29.0	30.7	30.7	29.9
87.5°	11.4	10.5	10.5	10.5	10.5	10.5	11.4	12.3	12.3	12.3	13.2
90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5	6.0	6.7	5.7
92.5°	16.7	16.0	13.4	10.7	13.4	16.0	16.7	23.7	33.0	37.7	33.1
95°	56.7	54.7	46.7	38.6	46.7	54.7	56.7	74.5	98.2	110.1	92.9
97.5°	131.0	127.1	111.8	96.5	111.8	127.1	131.0	142.2	157.2	164.7	136.1
100°	183.9	179.3	161.2	142.9	161.2	179.3	183.9	183.1	182.0	181.5	149.8
102.5°	229.1	225.2	209.6	193.9	209.6	225.2	229.1	214.8	195.8	186.2	154.1
105°	281.9	279.8	271.5	263.1	271.5	279.8	281.9	249.9	207.1	185.7	154.6
107.5°	309.4	310.0	312.0	314.0	312.0	310.0	309.4	264.6	205.0	175.1	147.7
110°	316.5	318.6	327.3	336.1	327.3	318.6	316.5	266.4	199.7	166.4	141.7



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	312.0	315.3	328.7	342.2	328.7	315.3	312.0	260.8	192.5	158.4	136.3
115°	296.7	301.3	320.1	338.7	320.1	301.3	296.7	247.4	181.6	148.8	130.3
117.5°	275.7	280.9	301.5	322.2	301.5	280.9	275.7	231.2	171.9	142.2	126.4
120°	261.6	266.6	286.7	306.7	286.7	266.6	261.6	220.9	166.6	139.5	125.1
122.5°	247.3	252.2	272.1	291.9	272.1	252.2	247.3	210.7	161.9	137.5	124.4
125°	228.6	233.2	251.5	269.7	251.5	233.2	228.6	197.5	156.0	135.3	123.8
127.5°	213.6	217.5	232.8	248.2	232.8	217.5	213.6	186.9	151.2	133.4	123.5
130°	204.1	207.6	221.9	236.1	221.9	207.6	204.1	180.3	148.6	132.7	123.8
132.5°	196.0	199.2	211.9	224.7	211.9	199.2	196.0	174.7	146.3	132.1	123.8
135°	184.5	187.3	198.3	209.3	198.3	187.3	184.5	166.7	142.9	131.0	123.8
137.5°	176.1	178.4	187.3	196.4	187.3	178.4	176.1	161.0	140.9	130.9	124.5
140°	169.3	171.4	179.8	188.2	179.8	171.4	169.3	156.3	138.9	130.3	124.6
142.5°	164.6	166.4	173.6	180.8	173.6	166.4	164.6	153.2	137.9	130.3	125.1
145°	157.5	158.9	164.3	169.8	164.3	158.9	157.5	148.1	135.6	129.4	125.1
147.5°	151.5	152.6	157.1	161.7	157.1	152.6	151.5	144.1	134.3	129.4	125.9
150°	148.1	149.0	152.6	156.3	152.6	149.0	148.1	141.8	133.5	129.4	126.4
152.5°	145.4	146.1	148.8	151.6	148.8	146.1	145.4	140.0	132.9	129.4	126.7
155°	142.1	142.5	144.4	146.2	144.4	142.5	142.1	137.9	132.2	129.4	127.3
157.5°	139.2	139.6	140.9	142.2	140.9	139.6	139.2	136.0	131.6	129.4	128.0
160°	137.8	138.0	138.8	139.5	138.8	138.0	137.8	135.0	131.2	129.4	128.2
162.5°	136.5	136.7	137.4	138.1	137.4	136.7	136.5	134.1	131.0	129.4	128.6
165°	134.5	134.6	135.4	136.1	135.4	134.6	134.5	132.8	130.5	129.4	129.0
167.5°	133.6	133.7	133.9	134.3	133.9	133.7	133.6	132.4	131.0	130.3	129.9
170°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	132.4	131.0	130.3	130.3
172.5°	132.9	132.8	132.5	132.3	132.5	132.8	132.9	132.0	130.9	130.3	130.3
175°	131.9	131.9	131.9	131.9	131.9	131.9	131.9	131.4	130.6	130.3	130.4
177.5°	131.7	131.7	131.4	131.0	131.4	131.7	131.7	131.3	130.7	130.4	130.6
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	928.5	928.5	928.5	928.5	928.5
2.5°	917.0	921.4	924.1	927.6	936.4
5°	881.9	898.6	903.9	917.0	932.8
7.5°	804.6	855.6	869.6	901.2	925.8
10°	730.0	780.9	805.5	880.1	917.0
12.5°	692.2	722.1	738.7	843.3	904.7
15°	668.5	689.6	701.9	794.1	890.7
17.5°	650.0	665.0	673.7	745.8	871.4
20°	638.6	645.6	653.5	710.6	849.4
22.5°	630.7	626.3	632.5	686.0	819.5
25°	625.4	608.8	615.8	666.7	784.4
27.5°	629.8	592.9	595.6	649.2	747.5
30°	630.7	573.6	574.5	630.7	706.2
32.5°	624.6	553.4	554.3	607.9	659.7
35°	609.6	529.7	528.8	581.5	596.5
37.5°	589.4	504.2	504.2	552.5	527.1
40°	564.8	478.8	481.4	514.8	465.6
42.5°	535.0	451.5	455.0	464.7	419.9
45°	502.5	425.2	427.8	392.7	384.8
47.5°	466.5	398.0	398.8	325.9	373.4
50°	423.4	369.9	366.3	279.3	372.5
52.5°	385.7	339.1	328.6	253.0	338.2
55°	348.8	306.5	283.7	232.7	313.6
57.5°	316.3	264.4	242.4	209.0	308.3
60°	286.3	223.1	206.4	183.6	282.8
62.5°	261.7	192.3	188.8	166.0	256.5
65°	235.4	171.3	170.4	151.1	217.8
67.5°	209.9	157.2	156.3	137.0	166.0
70°	182.7	142.3	140.5	122.1	123.0
72.5°	154.6	125.6	123.8	109.8	101.9
75°	126.5	106.3	105.4	95.7	82.6
77.5°	99.2	84.3	86.1	77.3	60.6
80°	71.1	61.5	63.2	55.3	45.7
82.5°	47.4	40.4	42.2	35.1	30.7
85°	26.3	22.8	23.7	18.4	14.1
87.5°	12.3	10.5	10.5	7.0	4.4
90°	3.9	2.5	2.3	1.6	0.9
92.5°	23.9	17.0	15.5	9.5	3.5
95°	58.8	33.1	30.4	19.4	8.4
97.5°	79.1	36.4	33.9	24.2	14.6
100°	86.5	39.1	36.9	28.1	19.3
102.5°	89.9	41.8	39.8	31.5	23.4
105°	92.5	45.8	44.1	37.2	30.3
107.5°	92.9	51.8	50.2	43.7	37.3
110°	92.2	55.2	53.7	47.9	42.1



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	92.2	59.2	57.8	52.3	46.7
115°	93.1	65.3	63.9	58.8	53.8
117.5°	94.9	71.1	70.0	65.3	60.7
120°	96.2	74.6	73.5	69.1	64.7
122.5°	98.2	78.6	77.5	73.1	68.7
125°	101.0	83.9	82.8	78.8	74.7
127.5°	103.7	88.9	87.8	83.8	79.7
130°	105.7	92.2	91.1	86.7	82.3
132.5°	107.3	94.9	93.9	89.5	85.1
135°	109.1	98.1	97.1	93.1	89.1
137.5°	111.7	102.1	101.2	97.2	93.3
140°	113.3	104.9	104.0	100.3	96.7
142.5°	114.7	106.9	106.0	102.7	99.3
145°	116.5	110.0	109.3	106.3	103.4
147.5°	119.0	113.8	113.1	110.2	107.4
150°	120.3	115.8	115.2	112.6	110.1
152.5°	121.2	117.2	116.6	114.7	112.8
155°	123.1	120.1	119.7	118.2	116.8
157.5°	125.1	123.0	122.6	121.2	119.8
160°	125.9	124.3	124.0	122.9	121.8
162.5°	126.9	125.7	125.5	124.6	123.8
165°	128.2	127.7	127.5	126.7	126.0
167.5°	129.3	128.8	128.8	128.4	128.1
170°	130.2	130.2	130.1	129.7	129.4
172.5°	130.3	130.3	130.3	130.2	130.1
175°	130.8	131.0	131.0	131.0	131.0
177.5°	130.9	131.0	131.0	131.0	131.0
180°	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P933957

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3000K

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	14.24	15.37	14.96	16.11	16.99	17.04	18.17	17.76	18.91	19.79
	3H	14.74	15.75	15.47	16.50	17.42	18.39	19.41	19.13	20.16	21.07
	4H	14.94	15.90	15.69	16.66	17.58	18.84	19.80	19.60	20.56	21.49
	6H	15.07	15.96	15.84	16.73	17.67	19.13	20.02	19.90	20.79	21.73
	8H	15.08	15.92	15.86	16.71	17.65	19.21	20.05	19.99	20.84	21.78
	12H	15.06	15.86	15.85	16.65	17.62	19.26	20.06	20.04	20.84	21.81
4H	2H	15.30	16.25	16.05	17.01	17.94	17.48	18.44	18.24	19.20	20.12
	3H	16.35	17.14	17.12	17.94	18.88	19.00	19.80	19.77	20.59	21.54
	4H	16.64	17.36	17.42	18.16	19.13	19.53	20.26	20.32	21.05	22.03
	6H	16.78	17.40	17.58	18.22	19.20	19.91	20.53	20.71	21.35	22.33
	8H	16.79	17.37	17.59	18.19	19.18	20.01	20.60	20.82	21.42	22.41
	12H	16.77	17.29	17.59	18.13	19.13	20.08	20.60	20.90	21.44	22.44
8H	4H	17.11	17.69	17.91	18.51	19.50	19.68	20.27	20.49	21.08	22.07
	6H	17.38	17.86	18.21	18.72	19.71	20.12	20.60	20.95	21.46	22.46
	8H	17.42	17.85	18.27	18.71	19.72	20.27	20.70	21.12	21.56	22.56
	12H	17.42	17.80	18.27	18.65	19.71	20.37	20.75	21.22	21.60	22.67
12H	4H	17.12	17.65	17.95	18.49	19.49	19.66	20.18	20.48	21.02	22.02
	6H	17.44	17.87	18.29	18.73	19.74	20.12	20.55	20.97	21.41	22.42
	8H	17.52	17.90	18.37	18.74	19.81	20.29	20.67	21.14	21.51	22.58