

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: P933983

Luminaire Tested: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933983
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-B2750-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

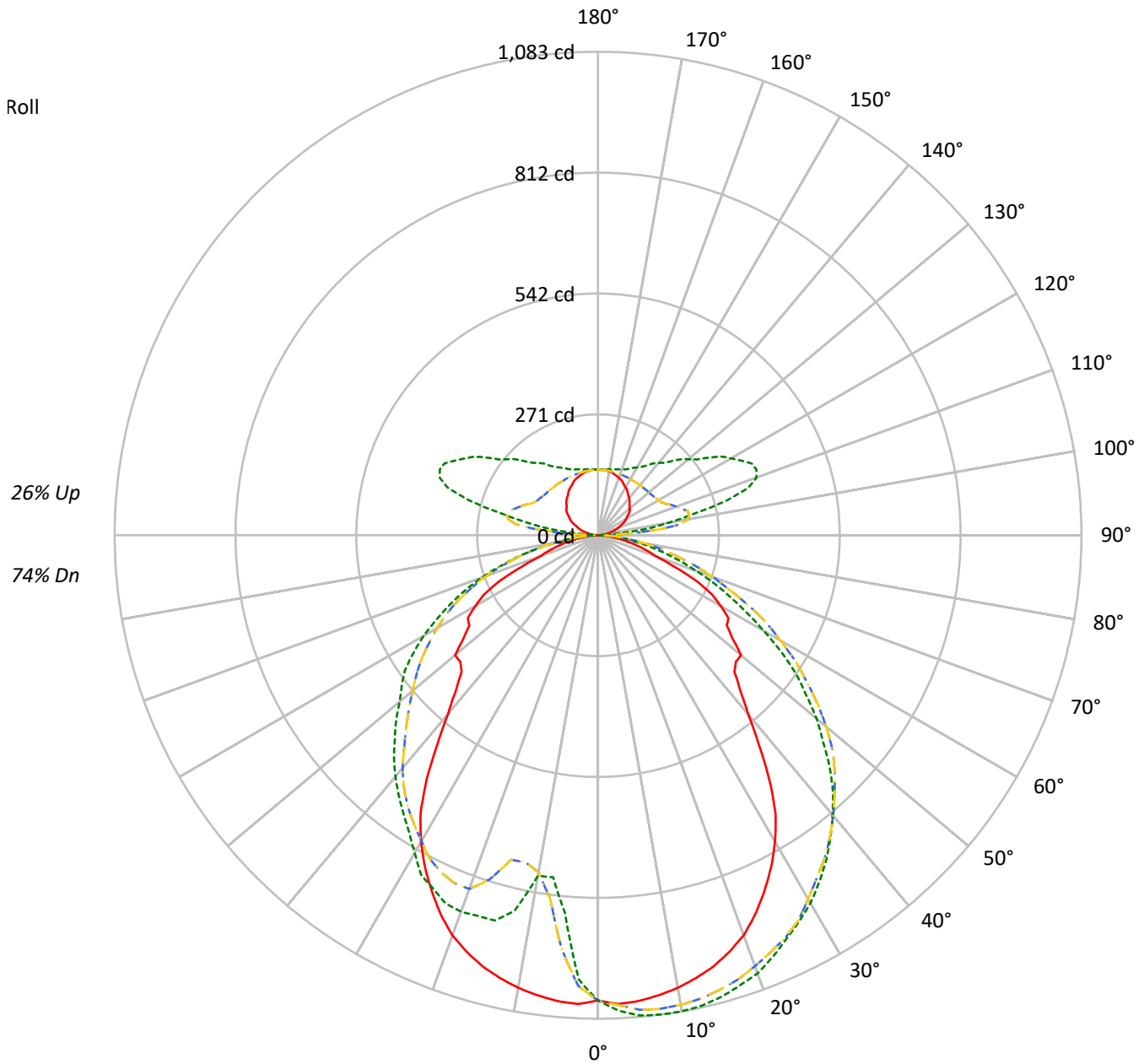
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3657.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

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CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9672	9672	9672	9672
5°	9733	9764	9733	7677
10°	9658	9618	9658	6876
15°	9542	9410	9542	7857
20°	9332	9162	9332	7873
25°	8912	8802	8912	7706
30°	8374	8503	8374	7340
35°	7455	8126	7455	6938
40°	6201	7680	6201	6634
45°	5531	7159	5531	6284
50°	5862	6538	5862	5933
55°	5500	5869	5500	5730
60°	5648	4985	5648	5248
65°	5095	4120	5095	4606
70°	3503	3284	3503	3860
75°	3040	2427	3040	2907
80°	2401	1604	2401	1747
85°	1308	849	1308	722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8492 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	2.6
10°-20°	267.1	7.3
20°-30°	413.0	11.3
30°-40°	493.0	13.5
40°-50°	495.9	13.6
50°-60°	431.5	11.8
60°-70°	305.9	8.4
70°-80°	161.8	4.4
80°-90°	40.9	1.1
90°-100°	71.7	2.0
100°-110°	188.6	5.2
110°-120°	195.5	5.3
120°-130°	156.8	4.3
130°-140°	123.1	3.4
140°-150°	94.5	2.6
150°-160°	68.0	1.9
160°-170°	41.6	1.1
170°-180°	14.1	0.4
0°-30°	774.2	21.2
0°-40°	1267.2	34.7
0°-60°	2194.5	60.0
0°-90°	2703.1	73.9
90°-120°	455.8	12.5
90°-150°	830.2	22.7
90°-180°	954.0	26.1
0°-180°	3657.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1042	1042	1042	1042	1042	
5°	1047	1080	1047	849	1047	99
15°	1000	1070	1000	893	1000	281
25°	881	998	881	874	881	404
35°	670	890	670	760	670	414
45°	432	734	432	644	432	346
55°	352	541	352	529	352	324
65°	244	326	244	365	244	234
75°	93	155	93	185	93	97
85°	16	39	16	34	16	21
90°	1	4	1	4	1	1
95°	10	43	10	43	10	11
105°	34	295	34	295	34	36
115°	60	380	60	380	60	60
125°	84	303	84	303	84	74
135°	100	235	100	235	100	77
145°	116	191	116	191	116	73
155°	131	164	131	164	131	60
165°	142	153	142	153	142	40
175°	147	148	147	148	147	14
180°	147	147	147	147	147	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1051.2	1051.2	1057.2	1059.2	1059.2	1056.2	1053.2	1056.2	1065.1	1068.0	1067.0
5°	1047.2	1055.2	1066.1	1068.0	1070.0	1069.0	1067.0	1069.0	1078.9	1080.9	1081.8
7.5°	1039.3	1054.2	1068.0	1071.0	1074.0	1071.0	1070.0	1072.0	1081.8	1083.8	1083.8
10°	1029.5	1050.2	1066.1	1068.0	1071.0	1068.0	1068.0	1072.0	1081.8	1083.8	1084.8
12.5°	1015.7	1044.3	1059.2	1061.1	1065.1	1064.1	1063.1	1067.0	1076.9	1078.9	1078.9
15°	999.9	1033.4	1047.2	1049.2	1056.2	1054.2	1054.2	1058.2	1069.0	1072.0	1071.0
17.5°	978.2	1019.6	1035.4	1038.4	1043.3	1042.3	1043.3	1047.2	1057.2	1059.2	1060.1
20°	953.6	1000.9	1019.6	1022.6	1027.5	1027.5	1027.5	1032.4	1042.3	1046.2	1046.2
22.5°	920.0	981.2	1000.9	1002.9	1008.8	1008.8	1010.7	1017.7	1026.5	1027.5	1027.5
25°	880.6	959.5	976.2	982.2	988.1	991.0	994.0	997.9	1000.9	999.9	1000.9
27.5°	839.2	931.9	953.6	957.5	965.4	968.4	972.3	973.3	974.3	977.2	975.3
30°	792.8	893.4	926.0	929.9	942.7	944.7	940.7	942.7	947.6	949.6	951.6
32.5°	740.6	836.2	897.4	906.2	918.1	912.1	911.2	914.1	922.0	922.0	924.0
35°	669.6	791.9	870.7	878.6	887.5	880.6	884.5	885.5	890.5	893.4	892.4
37.5°	591.7	753.4	843.1	849.0	855.9	847.1	853.0	855.9	859.9	857.9	857.9
40°	522.7	693.3	810.6	814.5	820.5	813.5	819.5	821.4	823.4	821.4	820.5
42.5°	471.4	627.2	776.1	781.0	777.1	782.0	784.0	787.9	785.0	781.0	781.0
45°	432.0	609.4	738.6	744.5	738.6	746.5	749.5	749.5	740.6	738.6	737.6
47.5°	419.1	574.0	701.1	701.1	698.2	708.0	713.0	706.1	697.2	694.2	694.2
50°	418.2	534.5	649.9	645.9	659.7	671.6	666.6	659.7	652.8	642.0	642.0
52.5°	379.7	486.2	583.8	598.6	620.3	627.2	619.3	612.4	600.6	595.6	591.7
55°	352.1	435.9	523.7	553.2	575.9	584.8	570.0	563.1	545.4	542.4	540.4
57.5°	346.1	362.9	468.4	505.9	533.5	532.5	523.7	510.8	496.1	493.1	492.1
60°	317.5	262.3	409.3	453.7	482.3	479.3	471.4	459.6	445.8	443.8	441.8
62.5°	287.9	190.3	342.1	392.5	433.0	432.0	425.1	407.3	397.5	392.5	388.6
65°	244.5	159.7	243.5	326.4	384.6	386.6	371.8	359.0	348.1	342.1	341.2
67.5°	186.4	130.2	164.7	272.1	338.2	336.2	317.5	311.6	297.8	294.8	288.9
70°	138.0	86.8	114.4	220.9	292.8	287.9	273.1	266.2	253.4	246.5	242.6
72.5°	114.4	70.0	83.8	171.6	246.5	240.6	227.8	219.9	209.0	203.1	199.2
75°	92.7	74.0	64.1	127.2	200.2	196.2	184.4	176.5	167.6	159.7	160.7
77.5°	68.0	69.0	51.3	93.7	158.7	152.8	145.9	136.1	132.1	124.2	124.2
80°	51.3	54.2	38.5	64.1	114.4	114.4	108.5	101.6	94.7	90.7	90.7
82.5°	34.5	34.5	28.6	40.4	77.9	74.9	71.0	69.0	65.1	63.1	63.1
85°	15.8	19.7	17.7	24.6	42.4	44.4	44.4	42.4	41.4	39.4	40.4
87.5°	4.9	8.9	10.8	13.8	21.7	22.7	23.7	23.7	23.7	24.6	24.6
90°	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0	3.7	3.7
92.5°	3.9	10.6	17.4	19.0	26.8	37.2	42.3	37.1	26.6	18.7	17.9
95°	9.5	21.8	34.1	37.2	66.0	104.3	123.5	110.2	83.6	63.7	61.4
97.5°	16.4	27.2	38.1	40.8	88.8	152.8	184.9	176.5	159.6	147.0	142.7
100°	21.7	31.6	41.4	43.9	97.1	168.2	203.7	204.3	205.6	206.5	201.3
102.5°	26.2	35.4	44.7	46.9	101.0	173.0	209.0	219.8	241.2	257.2	252.8
105°	34.0	41.8	49.5	51.5	103.8	173.5	208.4	232.5	280.5	316.5	314.1
107.5°	41.9	49.1	56.4	58.2	104.3	165.8	196.6	230.1	297.1	347.4	348.0
110°	47.2	53.7	60.2	61.9	103.5	159.0	186.7	224.2	299.1	355.3	357.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	52.5	58.7	64.9	66.5	103.5	153.0	177.8	216.1	292.7	350.2	354.0
115°	60.3	66.1	71.8	73.3	104.5	146.2	167.0	203.9	277.8	333.1	338.3
117.5°	68.1	73.4	78.6	79.9	106.5	141.9	159.6	193.0	259.5	309.5	315.3
120°	72.7	77.6	82.5	83.7	108.0	140.4	156.6	187.0	248.0	293.6	299.3
122.5°	77.1	82.0	87.0	88.2	110.2	139.6	154.3	181.7	236.5	277.7	283.2
125°	83.9	88.4	93.0	94.2	113.4	139.0	151.8	175.1	221.8	256.7	261.8
127.5°	89.4	94.1	98.6	99.8	116.4	138.6	149.8	169.8	209.8	239.8	244.1
130°	92.4	97.3	102.2	103.5	118.7	138.9	149.0	166.8	202.4	229.1	233.1
132.5°	95.5	100.5	105.4	106.6	120.5	139.0	148.3	164.3	196.1	220.1	223.6
135°	100.1	104.5	109.1	110.1	122.5	138.9	147.1	160.4	187.1	207.2	210.2
137.5°	104.7	109.2	113.6	114.7	125.4	139.7	146.9	158.2	180.7	197.7	200.3
140°	108.6	112.6	116.7	117.7	127.2	139.9	146.2	156.0	175.5	190.1	192.5
142.5°	111.5	115.3	119.0	120.0	128.8	140.4	146.2	154.8	172.0	184.8	186.8
145°	116.1	119.3	122.7	123.4	130.7	140.4	145.2	152.2	166.2	176.8	178.4
147.5°	120.6	123.7	127.0	127.8	133.6	141.4	145.2	150.8	161.8	170.1	171.4
150°	123.5	126.4	129.4	130.1	135.1	141.9	145.2	149.9	159.2	166.2	167.2
152.5°	126.6	128.8	130.9	131.5	136.1	142.2	145.2	149.2	157.2	163.2	164.0
155°	131.1	132.7	134.4	134.8	138.2	142.9	145.2	148.4	154.8	159.5	160.0
157.5°	134.5	136.1	137.6	138.0	140.4	143.7	145.2	147.7	152.6	156.3	156.7
160°	136.8	137.9	139.2	139.5	141.4	144.0	145.2	147.3	151.5	154.7	154.9
162.5°	139.0	139.9	140.9	141.1	142.5	144.4	145.2	147.0	150.6	153.2	153.4
165°	141.5	142.3	143.2	143.4	144.0	144.8	145.2	146.5	149.1	151.0	151.2
167.5°	143.8	144.2	144.5	144.6	145.1	145.8	146.2	147.0	148.7	150.0	150.1
170°	145.2	145.6	146.0	146.1	146.1	146.2	146.2	147.0	148.7	150.0	150.0
172.5°	146.0	146.1	146.2	146.2	146.2	146.2	146.2	146.9	148.2	149.2	149.1
175°	147.1	147.1	147.1	147.1	146.8	146.4	146.2	146.6	147.5	148.1	148.1
177.5°	147.1	147.1	147.1	147.1	146.9	146.6	146.4	146.7	147.4	147.9	147.8
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1069.0	1066.1	1069.0	1067.0	1068.0	1065.1	1056.2	1053.2	1056.2	1059.2	1059.2
5°	1081.8	1079.9	1081.8	1081.8	1080.9	1078.9	1069.0	1067.0	1069.0	1070.0	1068.0
7.5°	1085.8	1082.8	1085.8	1083.8	1083.8	1081.8	1072.0	1070.0	1071.0	1074.0	1071.0
10°	1085.8	1082.8	1085.8	1084.8	1083.8	1081.8	1072.0	1068.0	1068.0	1071.0	1068.0
12.5°	1080.9	1078.9	1080.9	1078.9	1078.9	1076.9	1067.0	1063.1	1064.1	1065.1	1061.1
15°	1073.0	1070.0	1073.0	1071.0	1072.0	1069.0	1058.2	1054.2	1054.2	1056.2	1049.2
17.5°	1061.1	1057.2	1061.1	1060.1	1059.2	1057.2	1047.2	1043.3	1042.3	1043.3	1038.4
20°	1047.2	1044.3	1047.2	1046.2	1046.2	1042.3	1032.4	1027.5	1027.5	1027.5	1022.6
22.5°	1025.5	1022.6	1025.5	1027.5	1027.5	1026.5	1017.7	1010.7	1008.8	1008.8	1002.9
25°	1000.9	997.9	1000.9	1000.9	999.9	1000.9	997.9	994.0	991.0	988.1	982.2
27.5°	977.2	975.3	977.2	975.3	977.2	974.3	973.3	972.3	968.4	965.4	957.5
30°	953.6	951.6	953.6	951.6	949.6	947.6	942.7	940.7	944.7	942.7	929.9
32.5°	924.0	922.0	924.0	924.0	922.0	922.0	914.1	911.2	912.1	918.1	906.2
35°	893.4	890.5	893.4	892.4	893.4	890.5	885.5	884.5	880.6	887.5	878.6
37.5°	857.9	855.0	857.9	857.9	857.9	859.9	855.9	853.0	847.1	855.9	849.0
40°	821.4	817.5	821.4	820.5	821.4	823.4	821.4	819.5	813.5	820.5	814.5
42.5°	780.0	779.0	780.0	781.0	781.0	785.0	787.9	784.0	782.0	777.1	781.0
45°	735.7	733.7	735.7	737.6	738.6	740.6	749.5	749.5	746.5	738.6	744.5
47.5°	688.3	683.4	688.3	694.2	694.2	697.2	706.1	713.0	708.0	698.2	701.1
50°	638.0	639.0	638.0	642.0	642.0	652.8	659.7	666.6	671.6	659.7	645.9
52.5°	588.7	587.8	588.7	591.7	595.6	600.6	612.4	619.3	627.2	620.3	598.6
55°	539.4	541.4	539.4	540.4	542.4	545.4	563.1	570.0	584.8	575.9	553.2
57.5°	490.1	487.2	490.1	492.1	493.1	496.1	510.8	523.7	532.5	533.5	505.9
60°	433.0	429.0	433.0	441.8	443.8	445.8	459.6	471.4	479.3	482.3	453.7
62.5°	382.7	375.8	382.7	388.6	392.5	397.5	407.3	425.1	432.0	433.0	392.5
65°	329.3	326.4	329.3	341.2	342.1	348.1	359.0	371.8	386.6	384.6	326.4
67.5°	281.0	281.0	281.0	288.9	294.8	297.8	311.6	317.5	336.2	338.2	272.1
70°	236.6	235.7	236.6	242.6	246.5	253.4	266.2	273.1	287.9	292.8	220.9
72.5°	194.2	193.3	194.2	199.2	203.1	209.0	219.9	227.8	240.6	246.5	171.6
75°	156.8	154.8	156.8	160.7	159.7	167.6	176.5	184.4	196.2	200.2	127.2
77.5°	120.3	120.3	120.3	124.2	124.2	132.1	136.1	145.9	152.8	158.7	93.7
80°	89.7	88.7	89.7	90.7	90.7	94.7	101.6	108.5	114.4	114.4	64.1
82.5°	63.1	61.1	63.1	63.1	63.1	65.1	69.0	71.0	74.9	77.9	40.4
85°	39.4	39.4	39.4	40.4	39.4	41.4	42.4	44.4	44.4	42.4	24.6
87.5°	25.6	24.6	25.6	24.6	24.6	23.7	23.7	23.7	22.7	21.7	13.8
90°	3.7	3.7	3.7	3.7	3.7	5.0	6.7	7.5	6.4	4.3	2.8
92.5°	15.0	12.0	15.0	17.9	18.7	26.6	37.1	42.3	37.2	26.8	19.0
95°	52.5	43.4	52.5	61.4	63.7	83.6	110.2	123.5	104.3	66.0	37.2
97.5°	125.5	108.4	125.5	142.7	147.0	159.6	176.5	184.9	152.8	88.8	40.8
100°	180.9	160.4	180.9	201.3	206.5	205.6	204.3	203.7	168.2	97.1	43.9
102.5°	235.3	217.7	235.3	252.8	257.2	241.2	219.8	209.0	173.0	101.0	46.9
105°	304.8	295.3	304.8	314.1	316.5	280.5	232.5	208.4	173.5	103.8	51.5
107.5°	350.2	352.5	350.2	348.0	347.4	297.1	230.1	196.6	165.8	104.3	58.2
110°	367.5	377.3	367.5	357.7	355.3	299.1	224.2	186.7	159.0	103.5	61.9



TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	369.1	384.1	369.1	354.0	350.2	292.7	216.1	177.8	153.0	103.5	66.5
115°	359.3	380.2	359.3	338.3	333.1	277.8	203.9	167.0	146.2	104.5	73.3
117.5°	338.5	361.8	338.5	315.3	309.5	259.5	193.0	159.6	141.9	106.5	79.9
120°	321.8	344.3	321.8	299.3	293.6	248.0	187.0	156.6	140.4	108.0	83.7
122.5°	305.5	327.7	305.5	283.2	277.7	236.5	181.7	154.3	139.6	110.2	88.2
125°	282.3	302.8	282.3	261.8	256.7	221.8	175.1	151.8	139.0	113.4	94.2
127.5°	261.4	278.6	261.4	244.1	239.8	209.8	169.8	149.8	138.6	116.4	99.8
130°	249.1	265.0	249.1	233.1	229.1	202.4	166.8	149.0	138.9	118.7	103.5
132.5°	237.9	252.2	237.9	223.6	220.1	196.1	164.3	148.3	139.0	120.5	106.6
135°	222.6	235.0	222.6	210.2	207.2	187.1	160.4	147.1	138.9	122.5	110.1
137.5°	210.3	220.5	210.3	200.3	197.7	180.7	158.2	146.9	139.7	125.4	114.7
140°	201.8	211.3	201.8	192.5	190.1	175.5	156.0	146.2	139.9	127.2	117.7
142.5°	194.9	203.0	194.9	186.8	184.8	172.0	154.8	146.2	140.4	128.8	120.0
145°	184.5	190.6	184.5	178.4	176.8	166.2	152.2	145.2	140.4	130.7	123.4
147.5°	176.4	181.5	176.4	171.4	170.1	161.8	150.8	145.2	141.4	133.6	127.8
150°	171.4	175.5	171.4	167.2	166.2	159.2	149.9	145.2	141.9	135.1	130.1
152.5°	167.0	170.2	167.0	164.0	163.2	157.2	149.2	145.2	142.2	136.1	131.5
155°	162.1	164.2	162.1	160.0	159.5	154.8	148.4	145.2	142.9	138.2	134.8
157.5°	158.2	159.6	158.2	156.7	156.3	152.6	147.7	145.2	143.7	140.4	138.0
160°	155.8	156.6	155.8	154.9	154.7	151.5	147.3	145.2	144.0	141.4	139.5
162.5°	154.2	155.0	154.2	153.4	153.2	150.6	147.0	145.2	144.4	142.5	141.1
165°	152.0	152.8	152.0	151.2	151.0	149.1	146.5	145.2	144.8	144.0	143.4
167.5°	150.4	150.8	150.4	150.1	150.0	148.7	147.0	146.2	145.8	145.1	144.6
170°	150.0	150.0	150.0	150.0	150.0	148.7	147.0	146.2	146.2	146.1	146.1
172.5°	148.8	148.5	148.8	149.1	149.2	148.2	146.9	146.2	146.2	146.2	146.2
175°	148.1	148.1	148.1	148.1	148.1	147.5	146.6	146.2	146.4	146.8	147.1
177.5°	147.5	147.1	147.5	147.8	147.9	147.4	146.7	146.4	146.6	146.9	147.1
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1057.2	1051.2	1051.2	1041.3	1037.4	1034.4	1029.5	1014.7	1010.7	1006.8	1012.7
5°	1066.1	1055.2	1047.2	1029.5	1014.7	1008.8	990.0	954.5	930.9	913.1	903.3
7.5°	1068.0	1054.2	1039.3	1011.7	976.2	960.5	903.3	838.2	820.5	804.7	794.8
10°	1066.1	1050.2	1029.5	988.1	904.3	876.7	819.5	777.1	766.2	763.3	766.2
12.5°	1059.2	1044.3	1015.7	946.7	829.3	810.6	777.1	752.4	750.4	755.4	782.0
15°	1047.2	1033.4	999.9	891.4	787.9	774.1	750.4	741.6	752.4	786.9	866.8
17.5°	1035.4	1019.6	978.2	837.2	756.4	746.5	729.7	747.5	808.6	855.0	881.6
20°	1019.6	1000.9	953.6	797.8	733.7	724.8	716.9	796.8	843.1	859.9	874.7
22.5°	1000.9	981.2	920.0	770.2	710.0	703.1	708.0	824.4	843.1	855.0	867.8
25°	976.2	959.5	880.6	748.5	691.3	683.4	702.1	821.4	832.3	835.2	860.9
27.5°	953.6	931.9	839.2	728.8	668.6	665.6	707.1	808.6	816.5	819.5	847.1
30°	926.0	893.4	792.8	708.0	644.9	644.0	708.0	792.8	790.9	798.8	826.4
32.5°	897.4	836.2	740.6	682.4	622.3	621.3	701.1	769.2	767.2	778.1	798.8
35°	870.7	791.9	669.6	652.8	593.7	594.7	684.4	741.6	742.6	752.4	765.2
37.5°	843.1	753.4	591.7	620.3	566.1	566.1	661.7	715.9	714.0	716.9	734.7
40°	810.6	693.3	522.7	577.9	540.4	537.5	634.1	688.3	681.4	680.4	705.1
42.5°	776.1	627.2	471.4	521.7	510.8	506.9	600.6	654.8	642.0	644.9	676.5
45°	738.6	609.4	432.0	440.8	480.3	477.3	564.1	616.3	607.5	615.4	647.9
47.5°	701.1	574.0	419.1	365.9	447.7	446.8	523.7	578.9	574.0	581.8	616.3
50°	649.9	534.5	418.2	313.5	411.3	415.2	475.4	542.4	542.4	549.3	585.8
52.5°	583.8	486.2	379.7	284.0	368.9	380.7	433.0	510.8	512.8	519.7	552.3
55°	523.7	435.9	352.1	261.3	318.5	344.1	391.5	478.3	482.3	489.2	518.7
57.5°	468.4	362.9	346.1	234.7	272.1	296.8	355.1	446.8	448.7	454.6	483.2
60°	409.3	262.3	317.5	206.1	231.7	250.4	321.4	409.3	416.2	420.1	444.8
62.5°	342.1	190.3	287.9	186.4	212.0	215.9	293.8	373.8	382.7	385.6	400.4
65°	243.5	159.7	244.5	169.6	191.3	192.3	264.2	337.2	345.1	350.0	361.0
67.5°	164.7	130.2	186.4	153.8	175.5	176.5	235.7	294.8	305.7	309.6	316.5
70°	114.4	86.8	138.0	137.1	157.8	159.7	205.1	256.4	266.2	269.2	273.1
72.5°	83.8	70.0	114.4	123.2	139.0	141.0	173.5	213.0	222.8	225.8	227.8
75°	64.1	74.0	92.7	107.5	118.3	119.3	142.0	173.5	180.4	182.4	183.4
77.5°	51.3	69.0	68.0	86.8	96.6	94.7	111.4	134.1	140.0	140.0	140.0
80°	38.5	54.2	51.3	62.1	71.0	69.0	79.9	95.6	97.6	99.6	98.6
82.5°	28.6	34.5	34.5	39.4	47.3	45.4	53.2	62.1	62.1	62.1	64.1
85°	17.7	19.7	15.8	20.7	26.6	25.6	29.6	33.5	34.5	34.5	32.5
87.5°	10.8	8.9	4.9	7.9	11.8	11.8	13.8	14.8	13.8	13.8	13.8
90°	2.6	1.8	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0
92.5°	17.4	10.6	3.9	10.6	17.4	19.0	26.8	37.2	42.3	37.1	26.6
95°	34.1	21.8	9.5	21.8	34.1	37.2	66.0	104.3	123.5	110.2	83.6
97.5°	38.1	27.2	16.4	27.2	38.1	40.8	88.8	152.8	184.9	176.5	159.6
100°	41.4	31.6	21.7	31.6	41.4	43.9	97.1	168.2	203.7	204.3	205.6
102.5°	44.7	35.4	26.2	35.4	44.7	46.9	101.0	173.0	209.0	219.8	241.2
105°	49.5	41.8	34.0	41.8	49.5	51.5	103.8	173.5	208.4	232.5	280.5
107.5°	56.4	49.1	41.9	49.1	56.4	58.2	104.3	165.8	196.6	230.1	297.1
110°	60.2	53.7	47.2	53.7	60.2	61.9	103.5	159.0	186.7	224.2	299.1



TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	64.9	58.7	52.5	58.7	64.9	66.5	103.5	153.0	177.8	216.1	292.7
115°	71.8	66.1	60.3	66.1	71.8	73.3	104.5	146.2	167.0	203.9	277.8
117.5°	78.6	73.4	68.1	73.4	78.6	79.9	106.5	141.9	159.6	193.0	259.5
120°	82.5	77.6	72.7	77.6	82.5	83.7	108.0	140.4	156.6	187.0	248.0
122.5°	87.0	82.0	77.1	82.0	87.0	88.2	110.2	139.6	154.3	181.7	236.5
125°	93.0	88.4	83.9	88.4	93.0	94.2	113.4	139.0	151.8	175.1	221.8
127.5°	98.6	94.1	89.4	94.1	98.6	99.8	116.4	138.6	149.8	169.8	209.8
130°	102.2	97.3	92.4	97.3	102.2	103.5	118.7	138.9	149.0	166.8	202.4
132.5°	105.4	100.5	95.5	100.5	105.4	106.6	120.5	139.0	148.3	164.3	196.1
135°	109.1	104.5	100.1	104.5	109.1	110.1	122.5	138.9	147.1	160.4	187.1
137.5°	113.6	109.2	104.7	109.2	113.6	114.7	125.4	139.7	146.9	158.2	180.7
140°	116.7	112.6	108.6	112.6	116.7	117.7	127.2	139.9	146.2	156.0	175.5
142.5°	119.0	115.3	111.5	115.3	119.0	120.0	128.8	140.4	146.2	154.8	172.0
145°	122.7	119.3	116.1	119.3	122.7	123.4	130.7	140.4	145.2	152.2	166.2
147.5°	127.0	123.7	120.6	123.7	127.0	127.8	133.6	141.4	145.2	150.8	161.8
150°	129.4	126.4	123.5	126.4	129.4	130.1	135.1	141.9	145.2	149.9	159.2
152.5°	130.9	128.8	126.6	128.8	130.9	131.5	136.1	142.2	145.2	149.2	157.2
155°	134.4	132.7	131.1	132.7	134.4	134.8	138.2	142.9	145.2	148.4	154.8
157.5°	137.6	136.1	134.5	136.1	137.6	138.0	140.4	143.7	145.2	147.7	152.6
160°	139.2	137.9	136.8	137.9	139.2	139.5	141.4	144.0	145.2	147.3	151.5
162.5°	140.9	139.9	139.0	139.9	140.9	141.1	142.5	144.4	145.2	147.0	150.6
165°	143.2	142.3	141.5	142.3	143.2	143.4	144.0	144.8	145.2	146.5	149.1
167.5°	144.5	144.2	143.8	144.2	144.5	144.6	145.1	145.8	146.2	147.0	148.7
170°	146.0	145.6	145.2	145.6	146.0	146.1	146.1	146.2	146.2	147.0	148.7
172.5°	146.2	146.1	146.0	146.1	146.2	146.2	146.2	146.2	146.2	146.9	148.2
175°	147.1	147.1	147.1	147.1	147.1	147.1	146.8	146.4	146.2	146.6	147.5
177.5°	147.1	147.1	147.1	147.1	147.1	147.1	146.9	146.6	146.4	146.7	147.4
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1005.8	1002.9	1006.8	996.0	1006.8	1002.9	1005.8	1012.7	1006.8	1010.7	1014.7
5°	882.6	877.6	861.9	849.0	861.9	877.6	882.6	903.3	913.1	930.9	954.5
7.5°	788.9	785.0	781.0	773.1	781.0	785.0	788.9	794.8	804.7	820.5	838.2
10°	768.2	769.2	775.1	774.1	775.1	769.2	768.2	766.2	763.3	766.2	777.1
12.5°	821.4	830.3	862.8	860.9	862.8	830.3	821.4	782.0	755.4	750.4	752.4
15°	882.6	885.5	892.4	893.4	892.4	885.5	882.6	866.8	786.9	752.4	741.6
17.5°	888.5	889.5	894.4	894.4	894.4	889.5	888.5	881.6	855.0	808.6	747.5
20°	883.6	885.5	895.4	897.4	895.4	885.5	883.6	874.7	859.9	843.1	796.8
22.5°	881.6	885.5	893.4	892.4	893.4	885.5	881.6	867.8	855.0	843.1	824.4
25°	871.7	871.7	872.7	873.7	872.7	871.7	871.7	860.9	835.2	832.3	821.4
27.5°	851.0	853.0	858.9	857.9	858.9	853.0	851.0	847.1	819.5	816.5	808.6
30°	832.3	830.3	825.4	821.4	825.4	830.3	832.3	826.4	798.8	790.9	792.8
32.5°	800.7	795.8	790.9	787.9	790.9	795.8	800.7	798.8	778.1	767.2	769.2
35°	763.3	764.2	763.3	760.3	763.3	764.2	763.3	765.2	752.4	742.6	741.6
37.5°	736.6	738.6	737.6	733.7	737.6	738.6	736.6	734.7	716.9	714.0	715.9
40°	709.0	710.0	709.0	706.1	709.0	710.0	709.0	705.1	680.4	681.4	688.3
42.5°	682.4	681.4	678.5	676.5	678.5	681.4	682.4	676.5	644.9	642.0	654.8
45°	651.8	652.8	646.9	644.0	646.9	652.8	651.8	647.9	615.4	607.5	616.3
47.5°	621.3	621.3	616.3	613.4	616.3	621.3	621.3	616.3	581.8	574.0	578.9
50°	588.7	587.8	580.9	579.9	580.9	587.8	588.7	585.8	549.3	542.4	542.4
52.5°	551.3	551.3	552.3	554.2	552.3	551.3	551.3	552.3	519.7	512.8	510.8
55°	518.7	519.7	526.6	528.6	526.6	519.7	518.7	518.7	489.2	482.3	478.3
57.5°	485.2	485.2	490.1	490.1	490.1	485.2	485.2	483.2	454.6	448.7	446.8
60°	446.8	448.7	452.7	451.7	452.7	448.7	446.8	444.8	420.1	416.2	409.3
62.5°	406.3	408.3	409.3	407.3	409.3	408.3	406.3	400.4	385.6	382.7	373.8
65°	363.9	365.9	366.9	364.9	366.9	365.9	363.9	361.0	350.0	345.1	337.2
67.5°	320.4	319.5	318.5	322.4	318.5	319.5	320.4	316.5	309.6	305.7	294.8
70°	276.1	276.1	275.1	277.1	275.1	276.1	276.1	273.1	269.2	266.2	256.4
72.5°	228.8	227.8	231.7	228.8	231.7	227.8	228.8	227.8	225.8	222.8	213.0
75°	182.4	184.4	182.4	185.4	182.4	184.4	182.4	183.4	182.4	180.4	173.5
77.5°	139.0	141.0	139.0	139.0	139.0	141.0	139.0	140.0	140.0	140.0	134.1
80°	98.6	97.6	97.6	96.6	97.6	97.6	98.6	98.6	99.6	97.6	95.6
82.5°	63.1	62.1	62.1	64.1	62.1	62.1	63.1	64.1	62.1	62.1	62.1
85°	34.5	35.5	33.5	33.5	33.5	35.5	34.5	32.5	34.5	34.5	33.5
87.5°	12.8	11.8	11.8	11.8	11.8	11.8	12.8	13.8	13.8	13.8	14.8
90°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.7	7.5	6.4
92.5°	18.7	17.9	15.0	12.0	15.0	17.9	18.7	26.6	37.1	42.3	37.2
95°	63.7	61.4	52.5	43.4	52.5	61.4	63.7	83.6	110.2	123.5	104.3
97.5°	147.0	142.7	125.5	108.4	125.5	142.7	147.0	159.6	176.5	184.9	152.8
100°	206.5	201.3	180.9	160.4	180.9	201.3	206.5	205.6	204.3	203.7	168.2
102.5°	257.2	252.8	235.3	217.7	235.3	252.8	257.2	241.2	219.8	209.0	173.0
105°	316.5	314.1	304.8	295.3	304.8	314.1	316.5	280.5	232.5	208.4	173.5
107.5°	347.4	348.0	350.2	352.5	350.2	348.0	347.4	297.1	230.1	196.6	165.8
110°	355.3	357.7	367.5	377.3	367.5	357.7	355.3	299.1	224.2	186.7	159.0



TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	350.2	354.0	369.1	384.1	369.1	354.0	350.2	292.7	216.1	177.8	153.0
115°	333.1	338.3	359.3	380.2	359.3	338.3	333.1	277.8	203.9	167.0	146.2
117.5°	309.5	315.3	338.5	361.8	338.5	315.3	309.5	259.5	193.0	159.6	141.9
120°	293.6	299.3	321.8	344.3	321.8	299.3	293.6	248.0	187.0	156.6	140.4
122.5°	277.7	283.2	305.5	327.7	305.5	283.2	277.7	236.5	181.7	154.3	139.6
125°	256.7	261.8	282.3	302.8	282.3	261.8	256.7	221.8	175.1	151.8	139.0
127.5°	239.8	244.1	261.4	278.6	261.4	244.1	239.8	209.8	169.8	149.8	138.6
130°	229.1	233.1	249.1	265.0	249.1	233.1	229.1	202.4	166.8	149.0	138.9
132.5°	220.1	223.6	237.9	252.2	237.9	223.6	220.1	196.1	164.3	148.3	139.0
135°	207.2	210.2	222.6	235.0	222.6	210.2	207.2	187.1	160.4	147.1	138.9
137.5°	197.7	200.3	210.3	220.5	210.3	200.3	197.7	180.7	158.2	146.9	139.7
140°	190.1	192.5	201.8	211.3	201.8	192.5	190.1	175.5	156.0	146.2	139.9
142.5°	184.8	186.8	194.9	203.0	194.9	186.8	184.8	172.0	154.8	146.2	140.4
145°	176.8	178.4	184.5	190.6	184.5	178.4	176.8	166.2	152.2	145.2	140.4
147.5°	170.1	171.4	176.4	181.5	176.4	171.4	170.1	161.8	150.8	145.2	141.4
150°	166.2	167.2	171.4	175.5	171.4	167.2	166.2	159.2	149.9	145.2	141.9
152.5°	163.2	164.0	167.0	170.2	167.0	164.0	163.2	157.2	149.2	145.2	142.2
155°	159.5	160.0	162.1	164.2	162.1	160.0	159.5	154.8	148.4	145.2	142.9
157.5°	156.3	156.7	158.2	159.6	158.2	156.7	156.3	152.6	147.7	145.2	143.7
160°	154.7	154.9	155.8	156.6	155.8	154.9	154.7	151.5	147.3	145.2	144.0
162.5°	153.2	153.4	154.2	155.0	154.2	153.4	153.2	150.6	147.0	145.2	144.4
165°	151.0	151.2	152.0	152.8	152.0	151.2	151.0	149.1	146.5	145.2	144.8
167.5°	150.0	150.1	150.4	150.8	150.4	150.1	150.0	148.7	147.0	146.2	145.8
170°	150.0	150.0	150.0	150.0	150.0	150.0	150.0	148.7	147.0	146.2	146.2
172.5°	149.2	149.1	148.8	148.5	148.8	149.1	149.2	148.2	146.9	146.2	146.2
175°	148.1	148.1	148.1	148.1	148.1	148.1	148.1	147.5	146.6	146.2	146.4
177.5°	147.9	147.8	147.5	147.1	147.5	147.8	147.9	147.4	146.7	146.4	146.6
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1029.5	1034.4	1037.4	1041.3	1051.2
5°	990.0	1008.8	1014.7	1029.5	1047.2
7.5°	903.3	960.5	976.2	1011.7	1039.3
10°	819.5	876.7	904.3	988.1	1029.5
12.5°	777.1	810.6	829.3	946.7	1015.7
15°	750.4	774.1	787.9	891.4	999.9
17.5°	729.7	746.5	756.4	837.2	978.2
20°	716.9	724.8	733.7	797.8	953.6
22.5°	708.0	703.1	710.0	770.2	920.0
25°	702.1	683.4	691.3	748.5	880.6
27.5°	707.1	665.6	668.6	728.8	839.2
30°	708.0	644.0	644.9	708.0	792.8
32.5°	701.1	621.3	622.3	682.4	740.6
35°	684.4	594.7	593.7	652.8	669.6
37.5°	661.7	566.1	566.1	620.3	591.7
40°	634.1	537.5	540.4	577.9	522.7
42.5°	600.6	506.9	510.8	521.7	471.4
45°	564.1	477.3	480.3	440.8	432.0
47.5°	523.7	446.8	447.7	365.9	419.1
50°	475.4	415.2	411.3	313.5	418.2
52.5°	433.0	380.7	368.9	284.0	379.7
55°	391.5	344.1	318.5	261.3	352.1
57.5°	355.1	296.8	272.1	234.7	346.1
60°	321.4	250.4	231.7	206.1	317.5
62.5°	293.8	215.9	212.0	186.4	287.9
65°	264.2	192.3	191.3	169.6	244.5
67.5°	235.7	176.5	175.5	153.8	186.4
70°	205.1	159.7	157.8	137.1	138.0
72.5°	173.5	141.0	139.0	123.2	114.4
75°	142.0	119.3	118.3	107.5	92.7
77.5°	111.4	94.7	96.6	86.8	68.0
80°	79.9	69.0	71.0	62.1	51.3
82.5°	53.2	45.4	47.3	39.4	34.5
85°	29.6	25.6	26.6	20.7	15.8
87.5°	13.8	11.8	11.8	7.9	4.9
90°	4.3	2.8	2.6	1.8	1.0
92.5°	26.8	19.0	17.4	10.6	3.9
95°	66.0	37.2	34.1	21.8	9.5
97.5°	88.8	40.8	38.1	27.2	16.4
100°	97.1	43.9	41.4	31.6	21.7
102.5°	101.0	46.9	44.7	35.4	26.2
105°	103.8	51.5	49.5	41.8	34.0
107.5°	104.3	58.2	56.4	49.1	41.9
110°	103.5	61.9	60.2	53.7	47.2



TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	103.5	66.5	64.9	58.7	52.5
115°	104.5	73.3	71.8	66.1	60.3
117.5°	106.5	79.9	78.6	73.4	68.1
120°	108.0	83.7	82.5	77.6	72.7
122.5°	110.2	88.2	87.0	82.0	77.1
125°	113.4	94.2	93.0	88.4	83.9
127.5°	116.4	99.8	98.6	94.1	89.4
130°	118.7	103.5	102.2	97.3	92.4
132.5°	120.5	106.6	105.4	100.5	95.5
135°	122.5	110.1	109.1	104.5	100.1
137.5°	125.4	114.7	113.6	109.2	104.7
140°	127.2	117.7	116.7	112.6	108.6
142.5°	128.8	120.0	119.0	115.3	111.5
145°	130.7	123.4	122.7	119.3	116.1
147.5°	133.6	127.8	127.0	123.7	120.6
150°	135.1	130.1	129.4	126.4	123.5
152.5°	136.1	131.5	130.9	128.8	126.6
155°	138.2	134.8	134.4	132.7	131.1
157.5°	140.4	138.0	137.6	136.1	134.5
160°	141.4	139.5	139.2	137.9	136.8
162.5°	142.5	141.1	140.9	139.9	139.0
165°	144.0	143.4	143.2	142.3	141.5
167.5°	145.1	144.6	144.5	144.2	143.8
170°	146.1	146.1	146.0	145.6	145.2
172.5°	146.2	146.2	146.2	146.1	146.0
175°	146.8	147.1	147.1	147.1	147.1
177.5°	146.9	147.1	147.1	147.1	147.1
180°	147.1	147.1	147.1	147.1	147.1



TEST NUMBER: P933983

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-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	14.64	15.77	15.36	16.51	17.39	17.44	18.57	18.16	19.31	20.19
	3H	15.14	16.15	15.87	16.90	17.82	18.80	19.81	19.53	20.56	21.47
	4H	15.34	16.30	16.10	17.06	17.99	19.25	20.20	20.00	20.96	21.89
	6H	15.48	16.36	16.24	17.13	18.07	19.54	20.42	20.30	21.19	22.13
	8H	15.48	16.32	16.26	17.11	18.06	19.61	20.45	20.39	21.24	22.19
	12H	15.46	16.27	16.25	17.05	18.02	19.66	20.46	20.44	21.24	22.21
4H	2H	15.70	16.65	16.46	17.42	18.34	17.88	18.84	18.64	19.60	20.53
	3H	16.75	17.55	17.52	18.34	19.29	19.40	20.20	20.17	21.00	21.94
	4H	17.04	17.76	17.82	18.56	19.53	19.94	20.66	20.72	21.46	22.43
	6H	17.18	17.80	17.98	18.63	19.60	20.31	20.93	21.11	21.75	22.73
	8H	17.19	17.77	18.00	18.59	19.58	20.42	21.00	21.22	21.82	22.81
	12H	17.17	17.70	18.00	18.53	19.53	20.48	21.01	21.31	21.84	22.84
8H	4H	17.51	18.09	18.31	18.91	19.90	20.08	20.67	20.89	21.48	22.48
	6H	17.78	18.26	18.61	19.12	20.12	20.52	21.01	21.36	21.86	22.86
	8H	17.82	18.26	18.67	19.11	20.12	20.67	21.10	21.52	21.96	22.97
	12H	17.82	18.20	18.67	19.05	20.11	20.78	21.15	21.62	22.00	23.07
12H	4H	17.53	18.05	18.35	18.89	19.89	20.06	20.59	20.89	21.42	22.42
	6H	17.84	18.27	18.69	19.13	20.14	20.52	20.95	21.37	21.81	22.82
	8H	17.92	18.30	18.77	19.15	20.21	20.69	21.07	21.54	21.92	22.98