

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: P933982

Luminaire Tested: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

**Test Information**

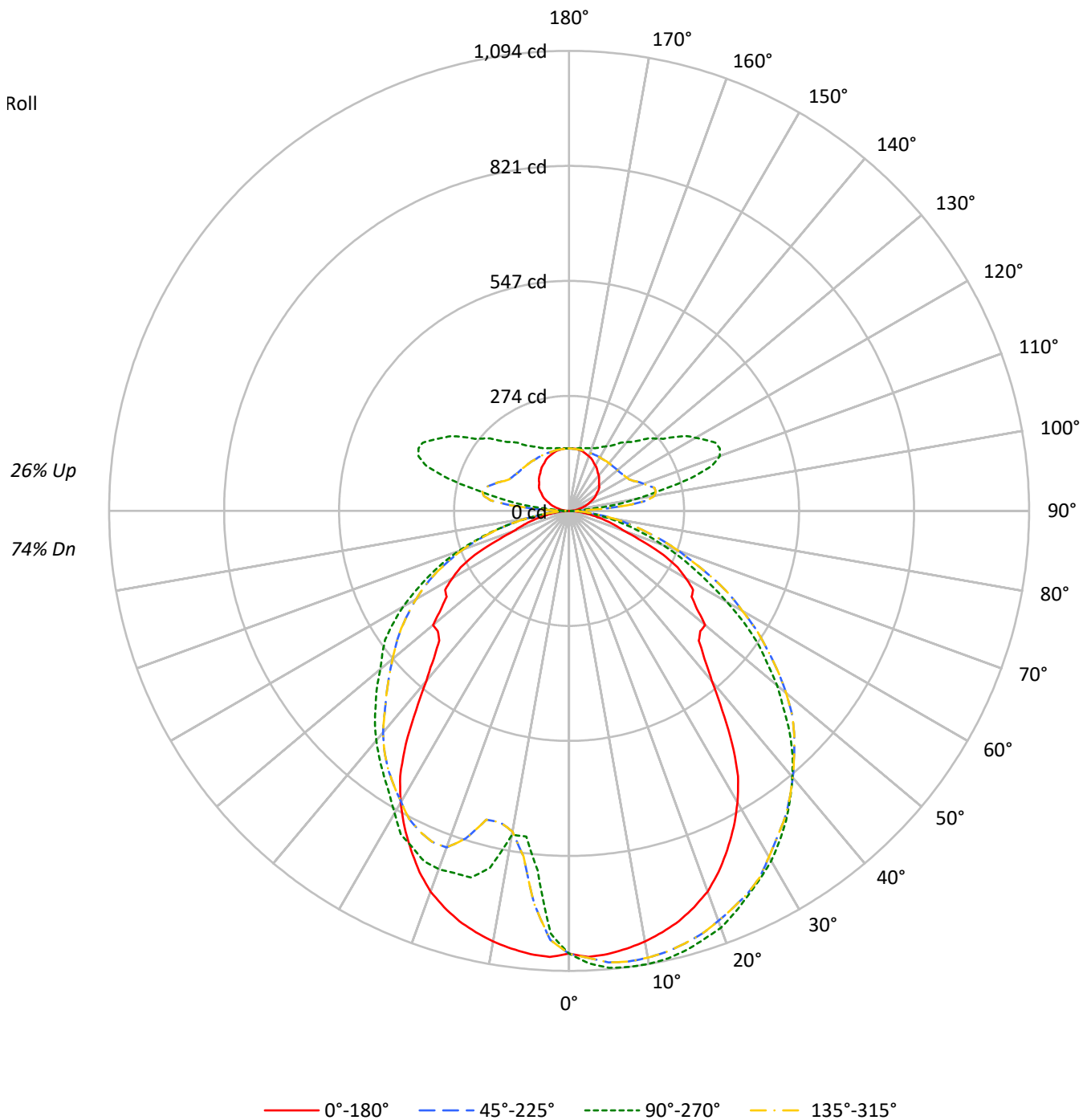
Test Method: LM-79-2019  
Report Number: P933982  
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3694.1 lumens  
Efficiency: N/A  
Efficacy: 123.1 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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### Luminous Intensity Polar Plot





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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°	9770	9770	9770	9770
5°	9832	9863	9832	7755
10°	9755	9715	9755	6946
15°	9638	9505	9638	7937
20°	9426	9255	9426	7953
25°	9002	8892	9002	7785
30°	8459	8589	8459	7415
35°	7530	8208	7530	7008
40°	6264	7758	6264	6700
45°	5586	7232	5586	6348
50°	5921	6604	5921	5993
55°	5556	5928	5556	5788
60°	5705	5036	5705	5302
65°	5147	4162	5147	4653
70°	3539	3316	3539	3899
75°	3069	2452	3069	2935
80°	2424	1620	2424	1765
85°	1317	858	1317	730

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8578 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.0	2.6
10°-20°	269.9	7.3
20°-30°	417.1	11.3
30°-40°	498.0	13.5
40°-50°	500.9	13.6
50°-60°	435.9	11.8
60°-70°	309.0	8.4
70°-80°	163.5	4.4
80°-90°	41.3	1.1
90°-100°	72.5	2.0
100°-110°	190.5	5.2
110°-120°	197.5	5.3
120°-130°	158.4	4.3
130°-140°	124.3	3.4
140°-150°	95.4	2.6
150°-160°	68.7	1.9
160°-170°	42.0	1.1
170°-180°	14.2	0.4
0°-30°	782.0	21.2
0°-40°	1280.0	34.7
0°-60°	2216.8	60.0
0°-90°	2730.6	73.9
90°-120°	460.5	12.5
90°-150°	838.6	22.7
90°-180°	964.0	26.1
0°-180°	3694.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1053	1053	1053	1053	1053	
5°	1058	1091	1058	858	1058	100
15°	1010	1081	1010	902	1010	284
25°	890	1008	890	883	890	408
35°	676	900	676	768	676	418
45°	436	741	436	650	436	350
55°	356	547	356	534	356	327
65°	247	330	247	369	247	236
75°	94	156	94	187	94	98
85°	16	40	16	34	16	22
90°	1	4	1	4	1	2
95°	10	44	10	44	10	11
105°	34	298	34	298	34	36
115°	61	384	61	384	61	60
125°	85	306	85	306	85	75
135°	101	237	101	237	101	78
145°	117	192	117	192	117	73
155°	132	166	132	166	132	61
165°	143	154	143	154	143	40
175°	149	150	149	150	149	14
180°	149	149	149	149	149	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1061.8	1061.8	1067.9	1069.9	1069.9	1066.9	1063.9	1066.9	1075.9	1078.9	1077.9
5°	1057.9	1065.9	1076.9	1078.9	1080.9	1079.9	1077.9	1079.9	1089.8	1091.8	1092.8
7.5°	1049.9	1064.9	1078.9	1081.9	1084.8	1081.9	1080.9	1082.9	1092.8	1094.8	1094.8
10°	1039.9	1060.8	1076.9	1078.9	1081.9	1078.9	1078.9	1082.9	1092.8	1094.8	1095.8
12.5°	1026.0	1054.9	1069.9	1071.9	1075.9	1074.9	1073.9	1077.9	1087.8	1089.8	1089.8
15°	1010.0	1043.9	1057.9	1059.8	1066.9	1064.9	1064.9	1068.9	1079.9	1082.9	1081.9
17.5°	988.1	1030.0	1045.9	1048.9	1053.9	1052.9	1053.9	1057.9	1067.9	1069.9	1070.9
20°	963.2	1011.0	1030.0	1033.0	1037.9	1037.9	1037.9	1042.9	1052.9	1056.9	1056.9
22.5°	929.4	991.1	1011.0	1013.0	1019.0	1019.0	1021.0	1028.0	1036.9	1037.9	1037.9
25°	889.5	969.2	986.1	992.1	998.1	1001.1	1004.1	1008.1	1011.0	1010.0	1011.0
27.5°	847.7	941.3	963.2	967.2	975.2	978.2	982.2	983.2	984.1	987.1	985.1
30°	800.9	902.5	935.3	939.3	952.3	954.3	950.3	952.3	957.3	959.2	961.2
32.5°	748.1	844.7	906.5	915.4	927.4	921.4	920.4	923.4	931.4	931.4	933.4
35°	676.4	799.9	879.6	887.5	896.5	889.5	893.5	894.5	899.5	902.5	901.5
37.5°	597.7	761.0	851.7	857.7	864.6	855.7	861.6	864.6	868.6	866.6	866.6
40°	528.0	700.3	818.8	822.8	828.8	821.8	827.8	829.8	831.8	829.8	828.8
42.5°	476.2	633.6	784.0	788.9	784.9	789.9	791.9	795.9	792.9	788.9	788.9
45°	436.3	615.6	746.1	752.1	746.1	754.1	757.1	757.1	748.1	746.1	745.1
47.5°	423.4	579.8	708.3	708.3	705.3	715.2	720.2	713.2	704.3	701.3	701.3
50°	422.4	539.9	656.5	652.5	666.4	678.4	673.4	666.4	659.5	648.5	648.5
52.5°	383.6	491.1	589.7	604.7	626.6	633.6	625.6	618.6	606.7	601.7	597.7
55°	355.7	440.3	529.0	558.9	581.8	590.7	575.8	568.8	550.9	547.9	545.9
57.5°	349.6	366.6	473.2	511.0	538.9	537.9	529.0	516.0	501.1	498.1	497.1
60°	320.7	264.9	413.4	458.3	487.1	484.2	476.2	464.2	450.3	448.3	446.3
62.5°	290.8	192.2	345.6	396.5	437.3	436.3	429.4	411.4	401.5	396.5	392.5
65°	247.0	161.4	246.0	329.7	388.5	390.5	375.6	362.6	351.6	345.6	344.6
67.5°	188.2	131.5	166.3	274.9	341.6	339.6	320.7	314.7	300.8	297.8	291.8
70°	139.4	87.6	115.5	223.1	295.8	290.8	275.9	268.9	256.0	249.0	245.0
72.5°	115.5	70.7	84.7	173.3	249.0	243.0	230.1	222.1	211.2	205.2	201.2
75°	93.6	74.7	64.7	128.5	202.2	198.2	186.3	178.3	169.3	161.4	162.3
77.5°	68.7	69.7	51.8	94.6	160.4	154.4	147.4	137.4	133.5	125.5	125.5
80°	51.8	54.8	38.8	64.7	115.5	115.5	109.6	102.6	95.6	91.6	91.6
82.5°	34.9	34.9	28.9	40.8	78.7	75.7	71.7	69.7	65.7	63.7	63.7
85°	15.9	19.9	17.9	24.9	42.8	44.8	44.8	42.8	41.8	39.8	40.8
87.5°	5.0	9.0	11.0	13.9	21.9	22.9	23.9	23.9	23.9	24.9	24.9
90°	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1	3.8	3.8
92.5°	4.0	10.8	17.5	19.2	27.1	37.5	42.7	37.4	26.9	18.9	18.1
95°	9.6	22.0	34.5	37.5	66.6	105.4	124.8	111.4	84.5	64.3	62.1
97.5°	16.5	27.5	38.4	41.2	89.7	154.4	186.8	178.3	161.3	148.5	144.1
100°	21.9	31.9	41.8	44.3	98.1	169.9	205.8	206.4	207.7	208.6	203.4
102.5°	26.5	35.8	45.1	47.4	102.0	174.8	211.2	222.0	243.6	259.9	255.4
105°	34.4	42.2	50.0	52.0	104.9	175.3	210.6	234.9	283.4	319.7	317.3
107.5°	42.3	49.6	57.0	58.8	105.4	167.5	198.6	232.5	300.1	350.9	351.5
110°	47.7	54.3	60.9	62.5	104.6	160.7	188.6	226.5	302.1	358.9	361.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	53.0	59.3	65.5	67.1	104.6	154.6	179.6	218.3	295.7	353.8	357.6
115°	61.0	66.7	72.5	74.0	105.6	147.7	168.7	206.0	280.6	336.4	341.7
117.5°	68.8	74.1	79.4	80.7	107.6	143.3	161.3	194.9	262.1	312.6	318.5
120°	73.4	78.4	83.4	84.6	109.1	141.8	158.2	188.9	250.5	296.6	302.3
122.5°	77.9	82.9	87.8	89.1	111.4	141.0	155.9	183.6	238.9	280.5	286.1
125°	84.8	89.3	93.9	95.1	114.5	140.4	153.4	176.9	224.0	259.3	264.4
127.5°	90.3	95.0	99.6	100.8	117.6	140.0	151.3	171.5	211.9	242.2	246.6
130°	93.3	98.3	103.3	104.6	119.9	140.3	150.5	168.5	204.5	231.5	235.5
132.5°	96.5	101.5	106.5	107.7	121.7	140.4	149.8	165.9	198.1	222.3	225.9
135°	101.1	105.6	110.2	111.3	123.7	140.3	148.6	162.0	189.0	209.3	212.3
137.5°	105.8	110.3	114.7	115.8	126.7	141.1	148.4	159.8	182.6	199.7	202.3
140°	109.7	113.7	117.9	118.9	128.5	141.3	147.7	157.6	177.3	192.0	194.4
142.5°	112.6	116.4	120.2	121.2	130.1	141.8	147.7	156.4	173.7	186.7	188.7
145°	117.2	120.5	123.9	124.7	132.1	141.8	146.7	153.8	167.9	178.6	180.2
147.5°	121.8	125.0	128.3	129.1	135.0	142.8	146.7	152.3	163.4	171.8	173.1
150°	124.8	127.7	130.7	131.4	136.5	143.3	146.7	151.4	160.9	167.9	168.9
152.5°	127.9	130.1	132.3	132.9	137.4	143.6	146.7	150.7	158.8	164.8	165.6
155°	132.5	134.1	135.8	136.2	139.6	144.3	146.7	149.9	156.4	161.2	161.7
157.5°	135.9	137.4	139.0	139.4	141.8	145.1	146.7	149.2	154.2	157.9	158.3
160°	138.1	139.3	140.6	140.9	142.8	145.4	146.7	148.8	153.1	156.3	156.5
162.5°	140.4	141.3	142.3	142.5	143.9	145.8	146.7	148.5	152.1	154.8	155.0
165°	142.9	143.7	144.6	144.8	145.4	146.3	146.7	148.0	150.6	152.5	152.7
167.5°	145.2	145.6	146.0	146.1	146.6	147.3	147.7	148.5	150.2	151.5	151.6
170°	146.7	147.1	147.5	147.6	147.6	147.7	147.7	148.5	150.2	151.5	151.5
172.5°	147.5	147.6	147.7	147.7	147.7	147.7	147.7	148.4	149.7	150.7	150.6
175°	148.6	148.6	148.6	148.6	148.3	147.9	147.7	148.1	149.0	149.6	149.6
177.5°	148.6	148.6	148.6	148.6	148.4	148.1	147.9	148.2	148.9	149.4	149.3
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1079.9	1076.9	1079.9	1077.9	1078.9	1075.9	1066.9	1063.9	1066.9	1069.9	1069.9
5°	1092.8	1090.8	1092.8	1092.8	1091.8	1089.8	1079.9	1077.9	1079.9	1080.9	1078.9
7.5°	1096.8	1093.8	1096.8	1094.8	1094.8	1092.8	1082.9	1080.9	1081.9	1084.8	1081.9
10°	1096.8	1093.8	1096.8	1095.8	1094.8	1092.8	1082.9	1078.9	1078.9	1081.9	1078.9
12.5°	1091.8	1089.8	1091.8	1089.8	1089.8	1087.8	1077.9	1073.9	1074.9	1075.9	1071.9
15°	1083.8	1080.9	1083.8	1081.9	1082.9	1079.9	1068.9	1064.9	1064.9	1066.9	1059.8
17.5°	1071.9	1067.9	1071.9	1070.9	1069.9	1067.9	1057.9	1053.9	1052.9	1053.9	1048.9
20°	1057.9	1054.9	1057.9	1056.9	1056.9	1052.9	1042.9	1037.9	1037.9	1037.9	1033.0
22.5°	1035.9	1033.0	1035.9	1037.9	1037.9	1036.9	1028.0	1021.0	1019.0	1019.0	1013.0
25°	1011.0	1008.1	1011.0	1011.0	1010.0	1011.0	1008.1	1004.1	1001.1	998.1	992.1
27.5°	987.1	985.1	987.1	985.1	987.1	984.1	983.2	982.2	978.2	975.2	967.2
30°	963.2	961.2	963.2	961.2	959.2	957.3	952.3	950.3	954.3	952.3	939.3
32.5°	933.4	931.4	933.4	933.4	931.4	931.4	923.4	920.4	921.4	927.4	915.4
35°	902.5	899.5	902.5	901.5	902.5	899.5	894.5	893.5	889.5	896.5	887.5
37.5°	866.6	863.6	866.6	866.6	866.6	868.6	864.6	861.6	855.7	864.6	857.7
40°	829.8	825.8	829.8	828.8	829.8	831.8	829.8	827.8	821.8	828.8	822.8
42.5°	787.9	786.9	787.9	788.9	788.9	792.9	795.9	791.9	789.9	784.9	788.9
45°	743.1	741.1	743.1	745.1	746.1	748.1	757.1	757.1	754.1	746.1	752.1
47.5°	695.3	690.3	695.3	701.3	701.3	704.3	713.2	720.2	715.2	705.3	708.3
50°	644.5	645.5	644.5	648.5	648.5	659.5	666.4	673.4	678.4	666.4	652.5
52.5°	594.7	593.7	594.7	597.7	601.7	606.7	618.6	625.6	633.6	626.6	604.7
55°	544.9	546.9	544.9	545.9	547.9	550.9	568.8	575.8	590.7	581.8	558.9
57.5°	495.1	492.1	495.1	497.1	498.1	501.1	516.0	529.0	537.9	538.9	511.0
60°	437.3	433.4	437.3	446.3	448.3	450.3	464.2	476.2	484.2	487.1	458.3
62.5°	386.5	379.6	386.5	392.5	396.5	401.5	411.4	429.4	436.3	437.3	396.5
65°	332.7	329.7	332.7	344.6	345.6	351.6	362.6	375.6	390.5	388.5	329.7
67.5°	283.9	283.9	283.9	291.8	297.8	300.8	314.7	320.7	339.6	341.6	274.9
70°	239.0	238.0	239.0	245.0	249.0	256.0	268.9	275.9	290.8	295.8	223.1
72.5°	196.2	195.2	196.2	201.2	205.2	211.2	222.1	230.1	243.0	249.0	173.3
75°	158.4	156.4	158.4	162.3	161.4	169.3	178.3	186.3	198.2	202.2	128.5
77.5°	121.5	121.5	121.5	125.5	125.5	133.5	137.4	147.4	154.4	160.4	94.6
80°	90.6	89.6	90.6	91.6	91.6	95.6	102.6	109.6	115.5	115.5	64.7
82.5°	63.7	61.8	63.7	63.7	63.7	65.7	69.7	71.7	75.7	78.7	40.8
85°	39.8	39.8	39.8	40.8	39.8	41.8	42.8	44.8	44.8	42.8	24.9
87.5°	25.9	24.9	25.9	24.9	24.9	23.9	23.9	23.9	22.9	21.9	13.9
90°	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5	4.4	2.8
92.5°	15.1	12.2	15.1	18.1	18.9	26.9	37.4	42.7	37.5	27.1	19.2
95°	53.0	43.8	53.0	62.1	64.3	84.5	111.4	124.8	105.4	66.6	37.5
97.5°	126.8	109.5	126.8	144.1	148.5	161.3	178.3	186.8	154.4	89.7	41.2
100°	182.8	162.0	182.8	203.4	208.6	207.7	206.4	205.8	169.9	98.1	44.3
102.5°	237.6	219.9	237.6	255.4	259.9	243.6	222.0	211.2	174.8	102.0	47.4
105°	307.9	298.3	307.9	317.3	319.7	283.4	234.9	210.6	175.3	104.9	52.0
107.5°	353.8	356.1	353.8	351.5	350.9	300.1	232.5	198.6	167.5	105.4	58.8
110°	371.2	381.2	371.2	361.3	358.9	302.1	226.5	188.6	160.7	104.6	62.5





TEST NUMBER: P933982

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	372.8	388.0	372.8	357.6	353.8	295.7	218.3	179.6	154.6	104.6	67.1
115°	362.9	384.1	362.9	341.7	336.4	280.6	206.0	168.7	147.7	105.6	74.0
117.5°	341.9	365.4	341.9	318.5	312.6	262.1	194.9	161.3	143.3	107.6	80.7
120°	325.1	347.8	325.1	302.3	296.6	250.5	188.9	158.2	141.8	109.1	84.6
122.5°	308.6	331.1	308.6	286.1	280.5	238.9	183.6	155.9	141.0	111.4	89.1
125°	285.2	305.9	285.2	264.4	259.3	224.0	176.9	153.4	140.4	114.5	95.1
127.5°	264.0	281.5	264.0	246.6	242.2	211.9	171.5	151.3	140.0	117.6	100.8
130°	251.6	267.7	251.6	235.5	231.5	204.5	168.5	150.5	140.3	119.9	104.6
132.5°	240.3	254.8	240.3	225.9	222.3	198.1	165.9	149.8	140.4	121.7	107.7
135°	224.9	237.3	224.9	212.3	209.3	189.0	162.0	148.6	140.3	123.7	111.3
137.5°	212.4	222.7	212.4	202.3	199.7	182.6	159.8	148.4	141.1	126.7	115.8
140°	203.9	213.4	203.9	194.4	192.0	177.3	157.6	147.7	141.3	128.5	118.9
142.5°	196.9	205.1	196.9	188.7	186.7	173.7	156.4	147.7	141.8	130.1	121.2
145°	186.4	192.5	186.4	180.2	178.6	167.9	153.8	146.7	141.8	132.1	124.7
147.5°	178.2	183.4	178.2	173.1	171.8	163.4	152.3	146.7	142.8	135.0	129.1
150°	173.1	177.3	173.1	168.9	167.9	160.9	151.4	146.7	143.3	136.5	131.4
152.5°	168.7	171.9	168.7	165.6	164.8	158.8	150.7	146.7	143.6	137.4	132.9
155°	163.7	165.8	163.7	161.7	161.2	156.4	149.9	146.7	144.3	139.6	136.2
157.5°	159.8	161.3	159.8	158.3	157.9	154.2	149.2	146.7	145.1	141.8	139.4
160°	157.4	158.2	157.4	156.5	156.3	153.1	148.8	146.7	145.4	142.8	140.9
162.5°	155.8	156.6	155.8	155.0	154.8	152.1	148.5	146.7	145.8	143.9	142.5
165°	153.6	154.4	153.6	152.7	152.5	150.6	148.0	146.7	146.3	145.4	144.8
167.5°	151.9	152.3	151.9	151.6	151.5	150.2	148.5	147.7	147.3	146.6	146.1
170°	151.5	151.5	151.5	151.5	151.5	150.2	148.5	147.7	147.7	147.6	147.6
172.5°	150.3	150.0	150.3	150.6	150.7	149.7	148.4	147.7	147.7	147.7	147.7
175°	149.6	149.6	149.6	149.6	149.6	149.0	148.1	147.7	147.9	148.3	148.6
177.5°	149.0	148.6	149.0	149.3	149.4	148.9	148.2	147.9	148.1	148.4	148.6
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P933982

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1067.9	1061.8	1061.8	1051.9	1047.9	1044.9	1039.9	1025.0	1021.0	1017.0	1023.0
5°	1076.9	1065.9	1057.9	1039.9	1025.0	1019.0	1000.1	964.2	940.3	922.4	912.4
7.5°	1078.9	1064.9	1049.9	1022.0	986.1	970.2	912.4	846.7	828.8	812.8	802.9
10°	1076.9	1060.8	1039.9	998.1	913.4	885.5	827.8	784.9	774.0	771.0	774.0
12.5°	1069.9	1054.9	1026.0	956.3	837.7	818.8	784.9	760.0	758.1	763.0	789.9
15°	1057.9	1043.9	1010.0	900.5	795.9	782.0	758.1	749.1	760.0	794.9	875.6
17.5°	1045.9	1030.0	988.1	845.7	764.0	754.1	737.1	755.1	816.8	863.6	890.5
20°	1030.0	1011.0	963.2	805.9	741.1	732.2	724.2	804.9	851.7	868.6	883.6
22.5°	1011.0	991.1	929.4	778.0	717.2	710.2	715.2	832.8	851.7	863.6	876.6
25°	986.1	969.2	889.5	756.1	698.3	690.3	709.3	829.8	840.7	843.7	869.6
27.5°	963.2	941.3	847.7	736.1	675.4	672.4	714.2	816.8	824.8	827.8	855.7
30°	935.3	902.5	800.9	715.2	651.5	650.5	715.2	800.9	798.9	806.9	834.7
32.5°	906.5	844.7	748.1	689.3	628.6	627.6	708.3	777.0	775.0	785.9	806.9
35°	879.6	799.9	676.4	659.5	599.7	600.7	691.3	749.1	750.1	760.0	773.0
37.5°	851.7	761.0	597.7	626.6	571.8	571.8	668.4	723.2	721.2	724.2	742.1
40°	818.8	700.3	528.0	583.8	545.9	542.9	640.5	695.3	688.3	687.3	712.2
42.5°	784.0	633.6	476.2	527.0	516.0	512.0	606.7	661.4	648.5	651.5	683.4
45°	746.1	615.6	436.3	445.3	485.2	482.2	569.8	622.6	613.6	621.6	654.5
47.5°	708.3	579.8	423.4	369.6	452.3	451.3	529.0	584.8	579.8	587.7	622.6
50°	656.5	539.9	422.4	316.7	415.4	419.4	480.2	547.9	547.9	554.9	591.7
52.5°	589.7	491.1	383.6	286.8	372.6	384.6	437.3	516.0	518.0	525.0	557.9
55°	529.0	440.3	355.7	263.9	321.7	347.6	395.5	483.2	487.1	494.1	524.0
57.5°	473.2	366.6	349.6	237.0	274.9	299.8	358.7	451.3	453.3	459.3	488.1
60°	413.4	264.9	320.7	208.2	234.1	253.0	324.7	413.4	420.4	424.4	449.3
62.5°	345.6	192.2	290.8	188.2	214.1	218.1	296.8	377.6	386.5	389.5	404.5
65°	246.0	161.4	247.0	171.3	193.2	194.2	266.9	340.6	348.6	353.6	364.6
67.5°	166.3	131.5	188.2	155.4	177.3	178.3	238.0	297.8	308.8	312.7	319.7
70°	115.5	87.6	139.4	138.4	159.4	161.4	207.2	259.0	268.9	271.9	275.9
72.5°	84.7	70.7	115.5	124.5	140.4	142.4	175.3	215.1	225.1	228.1	230.1
75°	64.7	74.7	93.6	108.6	119.5	120.5	143.4	175.3	182.3	184.3	185.3
77.5°	51.8	69.7	68.7	87.6	97.6	95.6	112.5	135.5	141.4	141.4	141.4
80°	38.8	54.8	51.8	62.7	71.7	69.7	80.7	96.6	98.6	100.6	99.6
82.5°	28.9	34.9	34.9	39.8	47.8	45.8	53.8	62.7	62.7	62.7	64.7
85°	17.9	19.9	15.9	20.9	26.9	25.9	29.9	33.9	34.9	34.9	32.9
87.5°	11.0	9.0	5.0	8.0	12.0	12.0	13.9	14.9	13.9	13.9	13.9
90°	2.6	1.8	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1
92.5°	17.5	10.8	4.0	10.8	17.5	19.2	27.1	37.5	42.7	37.4	26.9
95°	34.5	22.0	9.6	22.0	34.5	37.5	66.6	105.4	124.8	111.4	84.5
97.5°	38.4	27.5	16.5	27.5	38.4	41.2	89.7	154.4	186.8	178.3	161.3
100°	41.8	31.9	21.9	31.9	41.8	44.3	98.1	169.9	205.8	206.4	207.7
102.5°	45.1	35.8	26.5	35.8	45.1	47.4	102.0	174.8	211.2	222.0	243.6
105°	50.0	42.2	34.4	42.2	50.0	52.0	104.9	175.3	210.6	234.9	283.4
107.5°	57.0	49.6	42.3	49.6	57.0	58.8	105.4	167.5	198.6	232.5	300.1
110°	60.9	54.3	47.7	54.3	60.9	62.5	104.6	160.7	188.6	226.5	302.1



TEST NUMBER: P933982

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	65.5	59.3	53.0	59.3	65.5	67.1	104.6	154.6	179.6	218.3	295.7
115°	72.5	66.7	61.0	66.7	72.5	74.0	105.6	147.7	168.7	206.0	280.6
117.5°	79.4	74.1	68.8	74.1	79.4	80.7	107.6	143.3	161.3	194.9	262.1
120°	83.4	78.4	73.4	78.4	83.4	84.6	109.1	141.8	158.2	188.9	250.5
122.5°	87.8	82.9	77.9	82.9	87.8	89.1	111.4	141.0	155.9	183.6	238.9
125°	93.9	89.3	84.8	89.3	93.9	95.1	114.5	140.4	153.4	176.9	224.0
127.5°	99.6	95.0	90.3	95.0	99.6	100.8	117.6	140.0	151.3	171.5	211.9
130°	103.3	98.3	93.3	98.3	103.3	104.6	119.9	140.3	150.5	168.5	204.5
132.5°	106.5	101.5	96.5	101.5	106.5	107.7	121.7	140.4	149.8	165.9	198.1
135°	110.2	105.6	101.1	105.6	110.2	111.3	123.7	140.3	148.6	162.0	189.0
137.5°	114.7	110.3	105.8	110.3	114.7	115.8	126.7	141.1	148.4	159.8	182.6
140°	117.9	113.7	109.7	113.7	117.9	118.9	128.5	141.3	147.7	157.6	177.3
142.5°	120.2	116.4	112.6	116.4	120.2	121.2	130.1	141.8	147.7	156.4	173.7
145°	123.9	120.5	117.2	120.5	123.9	124.7	132.1	141.8	146.7	153.8	167.9
147.5°	128.3	125.0	121.8	125.0	128.3	129.1	135.0	142.8	146.7	152.3	163.4
150°	130.7	127.7	124.8	127.7	130.7	131.4	136.5	143.3	146.7	151.4	160.9
152.5°	132.3	130.1	127.9	130.1	132.3	132.9	137.4	143.6	146.7	150.7	158.8
155°	135.8	134.1	132.5	134.1	135.8	136.2	139.6	144.3	146.7	149.9	156.4
157.5°	139.0	137.4	135.9	137.4	139.0	139.4	141.8	145.1	146.7	149.2	154.2
160°	140.6	139.3	138.1	139.3	140.6	140.9	142.8	145.4	146.7	148.8	153.1
162.5°	142.3	141.3	140.4	141.3	142.3	142.5	143.9	145.8	146.7	148.5	152.1
165°	144.6	143.7	142.9	143.7	144.6	144.8	145.4	146.3	146.7	148.0	150.6
167.5°	146.0	145.6	145.2	145.6	146.0	146.1	146.6	147.3	147.7	148.5	150.2
170°	147.5	147.1	146.7	147.1	147.5	147.6	147.6	147.7	147.7	148.5	150.2
172.5°	147.7	147.6	147.5	147.6	147.7	147.7	147.7	147.7	147.7	148.4	149.7
175°	148.6	148.6	148.6	148.6	148.6	148.6	148.3	147.9	147.7	148.1	149.0
177.5°	148.6	148.6	148.6	148.6	148.6	148.6	148.4	148.1	147.9	148.2	148.9
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P933982

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1016.0	1013.0	1017.0	1006.1	1017.0	1013.0	1016.0	1023.0	1017.0	1021.0	1025.0
5°	891.5	886.5	870.6	857.7	870.6	886.5	891.5	912.4	922.4	940.3	964.2
7.5°	796.9	792.9	788.9	781.0	788.9	792.9	796.9	802.9	812.8	828.8	846.7
10°	776.0	777.0	783.0	782.0	783.0	777.0	776.0	774.0	771.0	774.0	784.9
12.5°	829.8	838.7	871.6	869.6	871.6	838.7	829.8	789.9	763.0	758.1	760.0
15°	891.5	894.5	901.5	902.5	901.5	894.5	891.5	875.6	794.9	760.0	749.1
17.5°	897.5	898.5	903.5	903.5	903.5	898.5	897.5	890.5	863.6	816.8	755.1
20°	892.5	894.5	904.5	906.5	904.5	894.5	892.5	883.6	868.6	851.7	804.9
22.5°	890.5	894.5	902.5	901.5	902.5	894.5	890.5	876.6	863.6	851.7	832.8
25°	880.6	880.6	881.6	882.6	881.6	880.6	880.6	869.6	843.7	840.7	829.8
27.5°	859.6	861.6	867.6	866.6	867.6	861.6	859.6	855.7	827.8	824.8	816.8
30°	840.7	838.7	833.8	829.8	833.8	838.7	840.7	834.7	806.9	798.9	800.9
32.5°	808.9	803.9	798.9	795.9	798.9	803.9	808.9	806.9	785.9	775.0	777.0
35°	771.0	772.0	771.0	768.0	771.0	772.0	771.0	773.0	760.0	750.1	749.1
37.5°	744.1	746.1	745.1	741.1	745.1	746.1	744.1	742.1	724.2	721.2	723.2
40°	716.2	717.2	716.2	713.2	716.2	717.2	716.2	712.2	687.3	688.3	695.3
42.5°	689.3	688.3	685.3	683.4	685.3	688.3	689.3	683.4	651.5	648.5	661.4
45°	658.5	659.5	653.5	650.5	653.5	659.5	658.5	654.5	621.6	613.6	622.6
47.5°	627.6	627.6	622.6	619.6	622.6	627.6	627.6	622.6	587.7	579.8	584.8
50°	594.7	593.7	586.7	585.7	586.7	593.7	594.7	591.7	554.9	547.9	547.9
52.5°	556.9	556.9	557.9	559.9	557.9	556.9	556.9	557.9	525.0	518.0	516.0
55°	524.0	525.0	532.0	534.0	532.0	525.0	524.0	524.0	494.1	487.1	483.2
57.5°	490.1	490.1	495.1	495.1	495.1	490.1	490.1	488.1	459.3	453.3	451.3
60°	451.3	453.3	457.3	456.3	457.3	453.3	451.3	449.3	424.4	420.4	413.4
62.5°	410.5	412.4	413.4	411.4	413.4	412.4	410.5	404.5	389.5	386.5	377.6
65°	367.6	369.6	370.6	368.6	370.6	369.6	367.6	364.6	353.6	348.6	340.6
67.5°	323.7	322.7	321.7	325.7	321.7	322.7	323.7	319.7	312.7	308.8	297.8
70°	278.9	278.9	277.9	279.9	277.9	278.9	278.9	275.9	271.9	268.9	259.0
72.5°	231.1	230.1	234.1	231.1	234.1	230.1	231.1	230.1	228.1	225.1	215.1
75°	184.3	186.3	184.3	187.2	184.3	186.3	184.3	185.3	184.3	182.3	175.3
77.5°	140.4	142.4	140.4	140.4	140.4	142.4	140.4	141.4	141.4	141.4	135.5
80°	99.6	98.6	98.6	97.6	98.6	98.6	99.6	99.6	100.6	98.6	96.6
82.5°	63.7	62.7	62.7	64.7	62.7	62.7	63.7	64.7	62.7	62.7	62.7
85°	34.9	35.9	33.9	33.9	33.9	35.9	34.9	32.9	34.9	34.9	33.9
87.5°	12.9	12.0	12.0	12.0	12.0	12.0	12.9	13.9	13.9	13.9	14.9
90°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5
92.5°	18.9	18.1	15.1	12.2	15.1	18.1	18.9	26.9	37.4	42.7	37.5
95°	64.3	62.1	53.0	43.8	53.0	62.1	64.3	84.5	111.4	124.8	105.4
97.5°	148.5	144.1	126.8	109.5	126.8	144.1	148.5	161.3	178.3	186.8	154.4
100°	208.6	203.4	182.8	162.0	182.8	203.4	208.6	207.7	206.4	205.8	169.9
102.5°	259.9	255.4	237.6	219.9	237.6	255.4	259.9	243.6	222.0	211.2	174.8
105°	319.7	317.3	307.9	298.3	307.9	317.3	319.7	283.4	234.9	210.6	175.3
107.5°	350.9	351.5	353.8	356.1	353.8	351.5	350.9	300.1	232.5	198.6	167.5
110°	358.9	361.3	371.2	381.2	371.2	361.3	358.9	302.1	226.5	188.6	160.7



TEST NUMBER: P933982

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	353.8	357.6	372.8	388.0	372.8	357.6	353.8	295.7	218.3	179.6	154.6
115°	336.4	341.7	362.9	384.1	362.9	341.7	336.4	280.6	206.0	168.7	147.7
117.5°	312.6	318.5	341.9	365.4	341.9	318.5	312.6	262.1	194.9	161.3	143.3
120°	296.6	302.3	325.1	347.8	325.1	302.3	296.6	250.5	188.9	158.2	141.8
122.5°	280.5	286.1	308.6	331.1	308.6	286.1	280.5	238.9	183.6	155.9	141.0
125°	259.3	264.4	285.2	305.9	285.2	264.4	259.3	224.0	176.9	153.4	140.4
127.5°	242.2	246.6	264.0	281.5	264.0	246.6	242.2	211.9	171.5	151.3	140.0
130°	231.5	235.5	251.6	267.7	251.6	235.5	231.5	204.5	168.5	150.5	140.3
132.5°	222.3	225.9	240.3	254.8	240.3	225.9	222.3	198.1	165.9	149.8	140.4
135°	209.3	212.3	224.9	237.3	224.9	212.3	209.3	189.0	162.0	148.6	140.3
137.5°	199.7	202.3	212.4	222.7	212.4	202.3	199.7	182.6	159.8	148.4	141.1
140°	192.0	194.4	203.9	213.4	203.9	194.4	192.0	177.3	157.6	147.7	141.3
142.5°	186.7	188.7	196.9	205.1	196.9	188.7	186.7	173.7	156.4	147.7	141.8
145°	178.6	180.2	186.4	192.5	186.4	180.2	178.6	167.9	153.8	146.7	141.8
147.5°	171.8	173.1	178.2	183.4	178.2	173.1	171.8	163.4	152.3	146.7	142.8
150°	167.9	168.9	173.1	177.3	173.1	168.9	167.9	160.9	151.4	146.7	143.3
152.5°	164.8	165.6	168.7	171.9	168.7	165.6	164.8	158.8	150.7	146.7	143.6
155°	161.2	161.7	163.7	165.8	163.7	161.7	161.2	156.4	149.9	146.7	144.3
157.5°	157.9	158.3	159.8	161.3	159.8	158.3	157.9	154.2	149.2	146.7	145.1
160°	156.3	156.5	157.4	158.2	157.4	156.5	156.3	153.1	148.8	146.7	145.4
162.5°	154.8	155.0	155.8	156.6	155.8	155.0	154.8	152.1	148.5	146.7	145.8
165°	152.5	152.7	153.6	154.4	153.6	152.7	152.5	150.6	148.0	146.7	146.3
167.5°	151.5	151.6	151.9	152.3	151.9	151.6	151.5	150.2	148.5	147.7	147.3
170°	151.5	151.5	151.5	151.5	151.5	151.5	151.5	150.2	148.5	147.7	147.7
172.5°	150.7	150.6	150.3	150.0	150.3	150.6	150.7	149.7	148.4	147.7	147.7
175°	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.0	148.1	147.7	147.9
177.5°	149.4	149.3	149.0	148.6	149.0	149.3	149.4	148.9	148.2	147.9	148.1
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P933982

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1039.9	1044.9	1047.9	1051.9	1061.8
5°	1000.1	1019.0	1025.0	1039.9	1057.9
7.5°	912.4	970.2	986.1	1022.0	1049.9
10°	827.8	885.5	913.4	998.1	1039.9
12.5°	784.9	818.8	837.7	956.3	1026.0
15°	758.1	782.0	795.9	900.5	1010.0
17.5°	737.1	754.1	764.0	845.7	988.1
20°	724.2	732.2	741.1	805.9	963.2
22.5°	715.2	710.2	717.2	778.0	929.4
25°	709.3	690.3	698.3	756.1	889.5
27.5°	714.2	672.4	675.4	736.1	847.7
30°	715.2	650.5	651.5	715.2	800.9
32.5°	708.3	627.6	628.6	689.3	748.1
35°	691.3	600.7	599.7	659.5	676.4
37.5°	668.4	571.8	571.8	626.6	597.7
40°	640.5	542.9	545.9	583.8	528.0
42.5°	606.7	512.0	516.0	527.0	476.2
45°	569.8	482.2	485.2	445.3	436.3
47.5°	529.0	451.3	452.3	369.6	423.4
50°	480.2	419.4	415.4	316.7	422.4
52.5°	437.3	384.6	372.6	286.8	383.6
55°	395.5	347.6	321.7	263.9	355.7
57.5°	358.7	299.8	274.9	237.0	349.6
60°	324.7	253.0	234.1	208.2	320.7
62.5°	296.8	218.1	214.1	188.2	290.8
65°	266.9	194.2	193.2	171.3	247.0
67.5°	238.0	178.3	177.3	155.4	188.2
70°	207.2	161.4	159.4	138.4	139.4
72.5°	175.3	142.4	140.4	124.5	115.5
75°	143.4	120.5	119.5	108.6	93.6
77.5°	112.5	95.6	97.6	87.6	68.7
80°	80.7	69.7	71.7	62.7	51.8
82.5°	53.8	45.8	47.8	39.8	34.9
85°	29.9	25.9	26.9	20.9	15.9
87.5°	13.9	12.0	12.0	8.0	5.0
90°	4.4	2.8	2.6	1.8	1.0
92.5°	27.1	19.2	17.5	10.8	4.0
95°	66.6	37.5	34.5	22.0	9.6
97.5°	89.7	41.2	38.4	27.5	16.5
100°	98.1	44.3	41.8	31.9	21.9
102.5°	102.0	47.4	45.1	35.8	26.5
105°	104.9	52.0	50.0	42.2	34.4
107.5°	105.4	58.8	57.0	49.6	42.3
110°	104.6	62.5	60.9	54.3	47.7



TEST NUMBER: P933982

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	104.6	67.1	65.5	59.3	53.0
115°	105.6	74.0	72.5	66.7	61.0
117.5°	107.6	80.7	79.4	74.1	68.8
120°	109.1	84.6	83.4	78.4	73.4
122.5°	111.4	89.1	87.8	82.9	77.9
125°	114.5	95.1	93.9	89.3	84.8
127.5°	117.6	100.8	99.6	95.0	90.3
130°	119.9	104.6	103.3	98.3	93.3
132.5°	121.7	107.7	106.5	101.5	96.5
135°	123.7	111.3	110.2	105.6	101.1
137.5°	126.7	115.8	114.7	110.3	105.8
140°	128.5	118.9	117.9	113.7	109.7
142.5°	130.1	121.2	120.2	116.4	112.6
145°	132.1	124.7	123.9	120.5	117.2
147.5°	135.0	129.1	128.3	125.0	121.8
150°	136.5	131.4	130.7	127.7	124.8
152.5°	137.4	132.9	132.3	130.1	127.9
155°	139.6	136.2	135.8	134.1	132.5
157.5°	141.8	139.4	139.0	137.4	135.9
160°	142.8	140.9	140.6	139.3	138.1
162.5°	143.9	142.5	142.3	141.3	140.4
165°	145.4	144.8	144.6	143.7	142.9
167.5°	146.6	146.1	146.0	145.6	145.2
170°	147.6	147.6	147.5	147.1	146.7
172.5°	147.7	147.7	147.7	147.6	147.5
175°	148.3	148.6	148.6	148.6	148.6
177.5°	148.4	148.6	148.6	148.6	148.6
180°	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P933982  
 CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-4-2700K

**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	14.68	15.80	15.40	16.55	17.43	17.48	18.60	18.20	19.34	20.23
	3H	15.17	16.19	15.91	16.94	17.85	18.83	19.84	19.57	20.59	21.51
	4H	15.38	16.33	16.13	17.09	18.02	19.28	20.23	20.03	21.00	21.92
	6H	15.51	16.39	16.28	17.16	18.10	19.57	20.45	20.34	21.22	22.16
	8H	15.52	16.36	16.30	17.15	18.09	19.65	20.49	20.43	21.28	22.22
	12H	15.50	16.30	16.28	17.08	18.05	19.69	20.49	20.47	21.28	22.25
4H	2H	15.74	16.69	16.49	17.45	18.38	17.92	18.87	18.68	19.63	20.56
	3H	16.79	17.58	17.55	18.38	19.32	19.44	20.23	20.21	21.03	21.97
	4H	17.07	17.80	17.86	18.59	19.57	19.97	20.69	20.76	21.49	22.46
	6H	17.21	17.84	18.02	18.66	19.64	20.34	20.97	21.14	21.79	22.77
	8H	17.23	17.81	18.03	18.63	19.62	20.45	21.04	21.26	21.85	22.84
	12H	17.21	17.73	18.03	18.57	19.57	20.52	21.04	21.34	21.88	22.88
8H	4H	17.54	18.13	18.35	18.94	19.94	20.12	20.70	20.92	21.52	22.51
	6H	17.81	18.30	18.65	19.16	20.15	20.56	21.04	21.39	21.90	22.89
	8H	17.86	18.29	18.71	19.15	20.16	20.71	21.14	21.55	21.99	23.00
	12H	17.86	18.24	18.70	19.08	20.15	20.81	21.19	21.66	22.04	23.10
12H	4H	17.56	18.09	18.39	18.93	19.92	20.10	20.62	20.92	21.46	22.46
	6H	17.88	18.31	18.72	19.16	20.17	20.56	20.99	21.40	21.84	22.85
	8H	17.96	18.33	18.80	19.18	20.25	20.72	21.10	21.57	21.95	23.02