

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: P934287

Luminaire Tested: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

**Test Information**

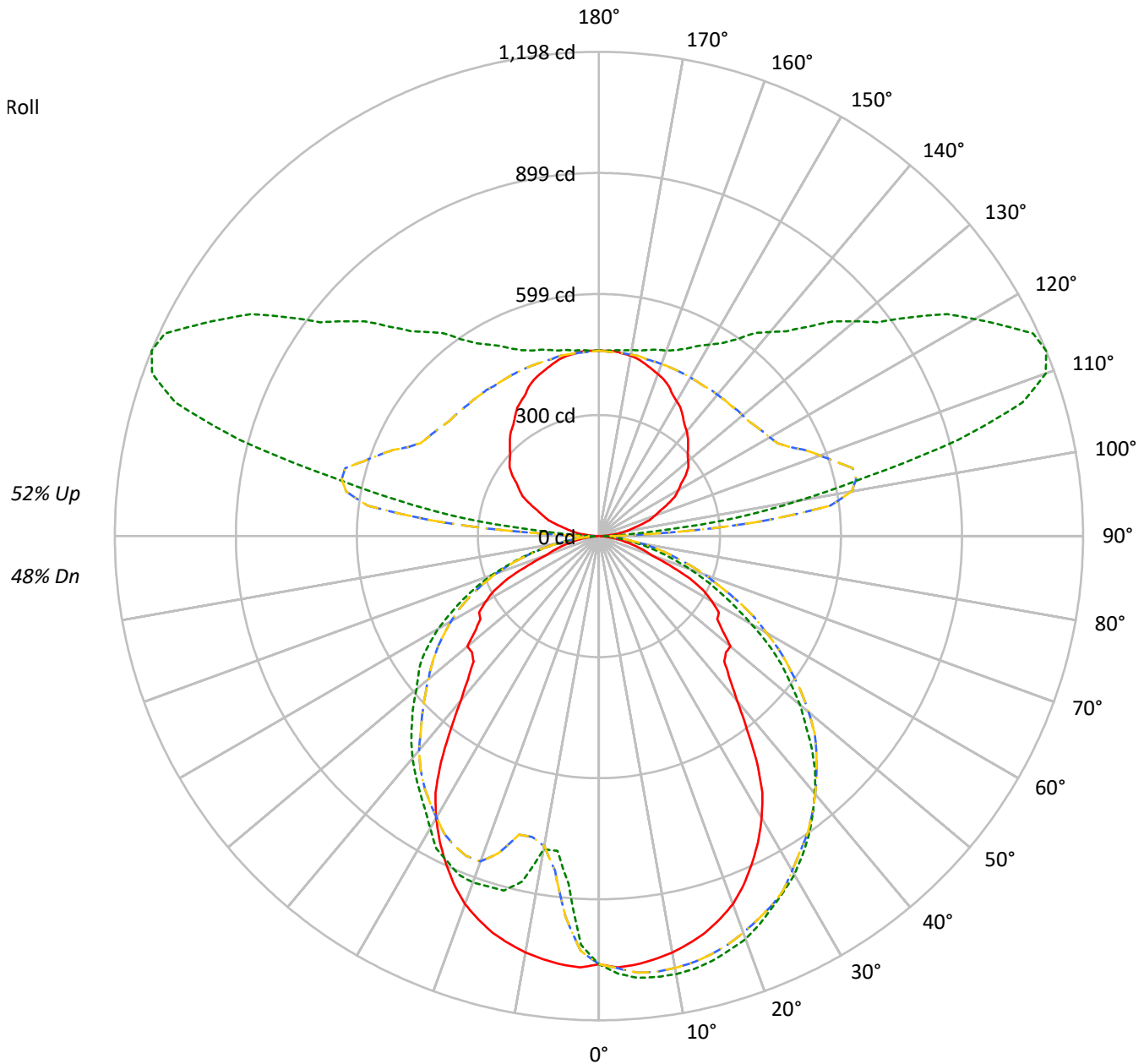
Test Method: LM-79-2019  
Report Number: P934287  
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5722.0 lumens  
Efficiency: N/A  
Efficacy: 134.3 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

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CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-2700K

### 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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6551	6551	6551	6551
5°	6598	6613	6598	5200
10°	6551	6515	6551	4657
15°	6478	6373	6478	5322
20°	6340	6206	6340	5333
25°	6060	5962	6060	5220
30°	5700	5760	5700	4972
35°	5079	5504	5079	4699
40°	4230	5203	4230	4493
45°	3776	4849	3776	4256
50°	4009	4429	4009	4018
55°	3768	3975	3768	3881
60°	3879	3376	3879	3555
65°	3512	2791	3512	3119
70°	2425	2223	2425	2615
75°	2120	1644	2120	1968
80°	1696	1086	1696	1184
85°	954	575	954	490

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5792 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.6	1.7
10°-20°	271.4	4.7
20°-30°	419.6	7.3
30°-40°	500.9	8.8
40°-50°	503.8	8.8
50°-60°	438.4	7.7
60°-70°	310.8	5.4
70°-80°	164.4	2.9
80°-90°	42.7	0.7
90°-100°	223.7	3.9
100°-110°	588.0	10.3
110°-120°	609.7	10.7
120°-130°	489.0	8.5
130°-140°	383.7	6.7
140°-150°	294.5	5.1
150°-160°	212.1	3.7
160°-170°	129.8	2.3
170°-180°	43.8	0.8
0°-30°	786.6	13.7
0°-40°	1287.5	22.5
0°-60°	2229.7	39.0
0°-90°	2747.7	48.0
90°-120°	1421.3	24.8
90°-150°	2588.6	45.2
90°-180°	2974.0	52.0
0°-180°	5722.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1059	1059	1059	1059	1059	
5°	1064	1097	1064	863	1064	101
15°	1016	1087	1016	908	1016	286
25°	895	1014	895	888	895	411
35°	680	905	680	772	680	421
45°	439	745	439	654	439	352
55°	358	550	358	537	358	329
65°	248	332	248	371	248	237
75°	94	157	94	188	94	99
85°	16	40	16	34	16	22
90°	3	12	3	12	3	3
95°	30	135	30	135	30	33
105°	106	921	106	921	106	112
115°	188	1186	188	1186	188	186
125°	262	944	262	944	262	232
135°	312	733	312	733	312	241
145°	362	594	362	594	362	227
155°	409	512	409	512	409	188
165°	441	477	441	477	441	125
175°	459	462	459	462	459	44
180°	459	459	459	459	459	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1068.1	1068.1	1074.1	1076.1	1076.1	1073.1	1070.1	1073.1	1082.2	1085.1	1084.1
5°	1064.0	1072.1	1083.2	1085.1	1087.1	1086.1	1084.1	1086.1	1096.1	1098.2	1099.2
7.5°	1056.1	1071.1	1085.1	1088.1	1091.1	1088.1	1087.1	1089.1	1099.2	1101.2	1101.2
10°	1046.0	1067.1	1083.2	1085.1	1088.1	1085.1	1085.1	1089.1	1099.2	1101.2	1102.2
12.5°	1032.1	1061.0	1076.1	1078.1	1082.2	1081.2	1080.1	1084.1	1094.1	1096.1	1096.1
15°	1016.0	1050.1	1064.0	1066.1	1073.1	1071.1	1071.1	1075.1	1086.1	1089.1	1088.1
17.5°	993.9	1036.0	1052.1	1055.1	1060.0	1059.0	1060.0	1064.0	1074.1	1076.1	1077.1
20°	968.9	1017.0	1036.0	1039.0	1044.0	1044.0	1044.0	1049.1	1059.0	1063.0	1063.0
22.5°	934.8	996.9	1017.0	1019.0	1025.0	1025.0	1027.0	1034.0	1043.0	1044.0	1044.0
25°	894.7	974.9	991.9	998.0	1004.0	1007.0	1009.9	1014.0	1017.0	1016.0	1017.0
27.5°	852.7	946.8	968.9	972.9	981.0	983.9	987.9	988.9	989.9	992.9	990.9
30°	805.6	907.8	940.8	944.8	957.9	959.8	955.9	957.9	962.8	964.9	966.9
32.5°	752.5	849.7	911.7	920.8	932.9	926.8	925.8	928.8	936.8	936.8	938.8
35°	680.4	804.6	884.7	892.7	901.8	894.7	898.8	899.8	904.8	907.8	906.8
37.5°	601.2	765.5	856.7	862.6	869.7	860.6	866.7	869.7	873.7	871.7	871.7
40°	531.1	704.4	823.6	827.6	833.7	826.6	832.7	834.6	836.6	834.6	833.7
42.5°	479.0	637.2	788.5	793.5	789.5	794.5	796.6	800.6	797.6	793.5	793.5
45°	438.8	619.2	750.5	756.5	750.5	758.5	761.4	761.4	752.5	750.5	749.5
47.5°	425.8	583.2	712.4	712.4	709.4	719.4	724.4	717.4	708.4	705.4	705.4
50°	424.8	543.0	660.2	656.3	670.3	682.4	677.3	670.3	663.3	652.3	652.3
52.5°	385.8	493.9	593.1	608.2	630.3	637.2	629.3	622.2	610.1	605.2	601.2
55°	357.7	442.8	532.1	562.1	585.2	594.1	579.2	572.1	554.1	551.1	549.1
57.5°	351.7	368.7	475.9	514.0	542.0	541.0	532.1	519.0	504.0	501.0	500.0
60°	322.6	266.5	415.8	460.9	489.9	486.9	479.0	466.9	452.9	450.9	448.9
62.5°	292.5	193.4	347.7	398.8	439.8	438.8	431.9	413.8	403.8	398.8	394.8
65°	248.5	162.3	247.5	331.7	390.7	392.7	377.8	364.7	353.7	347.7	346.7
67.5°	189.3	132.3	167.3	276.6	343.7	341.6	322.6	316.6	302.6	299.6	293.6
70°	140.2	88.1	116.2	224.4	297.6	292.5	277.6	270.5	257.5	250.5	246.5
72.5°	116.2	71.1	85.2	174.3	250.5	244.5	231.5	223.4	212.4	206.4	202.4
75°	94.2	75.1	65.1	129.3	203.4	199.4	187.3	179.4	170.3	162.3	163.3
77.5°	69.1	70.1	52.1	95.2	161.4	155.3	148.3	138.2	134.3	126.3	126.3
80°	52.1	55.1	39.0	65.1	116.2	116.2	110.3	103.2	96.2	92.2	92.2
82.5°	35.1	35.1	29.1	41.0	79.2	76.2	72.1	70.1	66.1	64.1	64.1
85°	16.0	20.0	18.0	25.0	43.1	45.1	45.1	43.1	42.1	40.0	41.0
87.5°	5.0	9.1	11.1	14.0	22.0	23.0	24.0	24.0	24.0	25.0	25.0
90°	3.1	5.6	8.1	8.7	13.5	20.1	23.4	20.8	15.5	11.7	11.7
92.5°	12.4	33.3	54.2	59.5	83.6	115.7	131.8	115.4	82.9	58.5	56.2
95°	29.6	67.8	106.2	115.7	205.6	325.4	385.3	343.8	260.9	198.6	191.5
97.5°	51.1	85.0	118.7	127.2	277.0	476.7	576.5	550.3	497.8	458.5	445.0
100°	67.7	98.4	129.1	136.8	302.9	524.5	635.2	637.1	641.0	643.9	628.0
102.5°	81.9	110.6	139.1	146.3	314.8	539.5	651.9	685.2	752.1	802.2	788.5
105°	106.0	130.2	154.4	160.5	323.6	541.2	650.0	724.9	874.6	986.9	979.6
107.5°	130.6	153.2	175.7	181.4	325.3	517.1	613.0	717.4	926.3	1083.0	1084.7
110°	147.2	167.5	187.9	193.0	322.8	495.8	582.3	699.0	932.6	1107.7	1115.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	163.5	183.0	202.4	207.3	322.9	477.2	554.3	673.8	912.7	1091.9	1103.7
115°	188.1	206.1	224.0	228.5	325.9	455.8	520.7	635.8	866.0	1038.6	1055.0
117.5°	212.4	228.8	245.0	249.1	332.0	442.4	497.6	601.5	809.2	965.0	983.2
120°	226.6	241.9	257.3	261.2	336.8	437.8	488.3	583.3	773.1	915.4	933.1
122.5°	240.5	256.0	271.4	275.3	343.9	435.5	481.3	566.7	737.7	865.9	883.3
125°	261.7	275.8	289.9	293.4	353.5	433.6	473.6	546.2	691.4	800.3	816.2
127.5°	279.0	293.2	307.5	311.1	363.0	432.5	467.1	529.5	654.1	747.6	761.0
130°	288.2	303.6	318.9	322.7	370.0	433.1	464.6	520.1	631.2	714.4	726.9
132.5°	297.8	313.1	328.5	332.3	375.7	433.6	462.5	512.2	611.5	686.0	697.2
135°	311.9	325.9	339.8	343.3	381.9	433.2	458.9	500.5	583.7	646.0	655.7
137.5°	326.4	340.2	354.0	357.5	391.0	435.8	458.2	493.3	563.6	616.4	624.3
140°	338.4	351.2	363.8	367.0	396.7	436.2	456.1	486.4	547.2	592.7	600.1
142.5°	347.6	359.4	371.1	374.1	401.4	437.8	456.1	482.8	536.0	576.1	582.5
145°	361.8	372.1	382.4	385.0	407.7	437.8	453.0	474.8	518.4	551.2	556.0
147.5°	376.0	386.0	396.0	398.5	416.6	440.8	453.0	470.1	504.5	530.3	534.3
150°	385.3	394.3	403.3	405.6	421.4	442.4	453.0	467.5	496.5	518.2	521.4
152.5°	394.7	401.6	408.5	410.2	424.4	443.4	453.0	465.3	490.1	508.7	511.0
155°	409.0	414.0	419.0	420.3	431.2	445.7	453.0	462.8	482.6	497.3	498.9
157.5°	419.4	424.3	429.3	430.5	437.9	448.0	453.0	460.6	476.0	487.4	488.5
160°	426.5	430.3	434.1	435.1	441.0	449.0	453.0	459.6	472.7	482.6	483.2
162.5°	433.6	436.4	439.3	440.0	444.3	450.1	453.0	458.6	469.6	477.9	478.5
165°	441.2	443.8	446.4	447.1	449.1	451.7	453.0	457.0	464.8	470.8	471.5
167.5°	448.3	449.5	450.8	451.1	452.8	455.0	456.1	458.7	463.8	467.7	468.0
170°	453.0	454.2	455.5	455.8	455.9	456.0	456.1	458.7	463.8	467.7	467.7
172.5°	455.5	455.8	456.0	456.1	456.1	456.1	456.1	458.1	462.1	465.2	465.0
175°	458.9	458.9	458.9	458.9	458.0	456.7	456.1	457.4	460.0	461.8	461.8
177.5°	458.9	458.9	458.9	458.9	458.2	457.2	456.7	457.7	459.8	461.2	460.9
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1086.1	1083.2	1086.1	1084.1	1085.1	1082.2	1073.1	1070.1	1073.1	1076.1	1076.1
5°	1099.2	1097.1	1099.2	1099.2	1098.2	1096.1	1086.1	1084.1	1086.1	1087.1	1085.1
7.5°	1103.2	1100.2	1103.2	1101.2	1101.2	1099.2	1089.1	1087.1	1088.1	1091.1	1088.1
10°	1103.2	1100.2	1103.2	1102.2	1101.2	1099.2	1089.1	1085.1	1085.1	1088.1	1085.1
12.5°	1098.2	1096.1	1098.2	1096.1	1096.1	1094.1	1084.1	1080.1	1081.2	1082.2	1078.1
15°	1090.1	1087.1	1090.1	1088.1	1089.1	1086.1	1075.1	1071.1	1071.1	1073.1	1066.1
17.5°	1078.1	1074.1	1078.1	1077.1	1076.1	1074.1	1064.0	1060.0	1059.0	1060.0	1055.1
20°	1064.0	1061.0	1064.0	1063.0	1063.0	1059.0	1049.1	1044.0	1044.0	1044.0	1039.0
22.5°	1042.0	1039.0	1042.0	1044.0	1044.0	1043.0	1034.0	1027.0	1025.0	1025.0	1019.0
25°	1017.0	1014.0	1017.0	1017.0	1016.0	1017.0	1014.0	1009.9	1007.0	1004.0	998.0
27.5°	992.9	990.9	992.9	990.9	992.9	989.9	988.9	987.9	983.9	981.0	972.9
30°	968.9	966.9	968.9	966.9	964.9	962.8	957.9	955.9	959.8	957.9	944.8
32.5°	938.8	936.8	938.8	938.8	936.8	936.8	928.8	925.8	926.8	932.9	920.8
35°	907.8	904.8	907.8	906.8	907.8	904.8	899.8	898.8	894.7	901.8	892.7
37.5°	871.7	868.7	871.7	871.7	871.7	873.7	869.7	866.7	860.6	869.7	862.6
40°	834.6	830.7	834.6	833.7	834.6	836.6	834.6	832.7	826.6	833.7	827.6
42.5°	792.5	791.5	792.5	793.5	793.5	797.6	800.6	796.6	794.5	789.5	793.5
45°	747.5	745.4	747.5	749.5	750.5	752.5	761.4	761.4	758.5	750.5	756.5
47.5°	699.4	694.3	699.4	705.4	705.4	708.4	717.4	724.4	719.4	709.4	712.4
50°	648.3	649.3	648.3	652.3	652.3	663.3	670.3	677.3	682.4	670.3	656.3
52.5°	598.2	597.2	598.2	601.2	605.2	610.1	622.2	629.3	637.2	630.3	608.2
55°	548.1	550.1	548.1	549.1	551.1	554.1	572.1	579.2	594.1	585.2	562.1
57.5°	498.0	495.0	498.0	500.0	501.0	504.0	519.0	532.1	541.0	542.0	514.0
60°	439.8	435.8	439.8	448.9	450.9	452.9	466.9	479.0	486.9	489.9	460.9
62.5°	388.7	381.8	388.7	394.8	398.8	403.8	413.8	431.9	438.8	439.8	398.8
65°	334.7	331.7	334.7	346.7	347.7	353.7	364.7	377.8	392.7	390.7	331.7
67.5°	285.6	285.6	285.6	293.6	299.6	302.6	316.6	322.6	341.6	343.7	276.6
70°	240.4	239.4	240.4	246.5	250.5	257.5	270.5	277.6	292.5	297.6	224.4
72.5°	197.4	196.4	197.4	202.4	206.4	212.4	223.4	231.5	244.5	250.5	174.3
75°	159.4	157.3	159.4	163.3	162.3	170.3	179.4	187.3	199.4	203.4	129.3
77.5°	122.2	122.2	122.2	126.3	126.3	134.3	138.2	148.3	155.3	161.4	95.2
80°	91.1	90.1	91.1	92.2	92.2	96.2	103.2	110.3	116.2	116.2	65.1
82.5°	64.1	62.2	64.1	64.1	64.1	66.1	70.1	72.1	76.2	79.2	41.0
85°	40.0	40.0	40.0	41.0	40.0	42.1	43.1	45.1	45.1	43.1	25.0
87.5°	26.1	25.0	26.1	25.0	25.0	24.0	24.0	24.0	23.0	22.0	14.0
90°	11.7	11.7	11.7	11.7	11.7	15.5	20.8	23.4	20.1	13.5	8.7
92.5°	46.8	37.5	46.8	56.2	58.5	82.9	115.4	131.8	115.7	83.6	59.5
95°	163.3	135.2	163.3	191.5	198.6	260.9	343.8	385.3	325.4	205.6	115.7
97.5°	391.4	337.8	391.4	445.0	458.5	497.8	550.3	576.5	476.7	277.0	127.2
100°	564.0	500.1	564.0	628.0	643.9	641.0	637.1	635.2	524.5	302.9	136.8
102.5°	733.8	679.0	733.8	788.5	802.2	752.1	685.2	651.9	539.5	314.8	146.3
105°	950.2	920.7	950.2	979.6	986.9	874.6	724.9	650.0	541.2	323.6	160.5
107.5°	1091.8	1099.0	1091.8	1084.7	1083.0	926.3	717.4	613.0	517.1	325.3	181.4
110°	1145.9	1176.6	1145.9	1115.3	1107.7	932.6	699.0	582.3	495.8	322.8	193.0





TEST NUMBER: P934287

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1150.8	1197.8	1150.8	1103.7	1091.9	912.7	673.8	554.3	477.2	322.9	207.3
115°	1120.2	1185.5	1120.2	1055.0	1038.6	866.0	635.8	520.7	455.8	325.9	228.5
117.5°	1055.6	1128.0	1055.6	983.2	965.0	809.2	601.5	497.6	442.4	332.0	249.1
120°	1003.4	1073.8	1003.4	933.1	915.4	773.1	583.3	488.3	437.8	336.8	261.2
122.5°	952.7	1022.0	952.7	883.3	865.9	737.7	566.7	481.3	435.5	343.9	275.3
125°	880.2	944.1	880.2	816.2	800.3	691.4	546.2	473.6	433.6	353.5	293.4
127.5°	815.0	869.0	815.0	761.0	747.6	654.1	529.5	467.1	432.5	363.0	311.1
130°	776.7	826.5	776.7	726.9	714.4	631.2	520.1	464.6	433.1	370.0	322.7
132.5°	741.8	786.4	741.8	697.2	686.0	611.5	512.2	462.5	433.6	375.7	332.3
135°	694.1	732.6	694.1	655.7	646.0	583.7	500.5	458.9	433.2	381.9	343.3
137.5°	655.9	687.3	655.9	624.3	616.4	563.6	493.3	458.2	435.8	391.0	357.5
140°	629.5	659.0	629.5	600.1	592.7	547.2	486.4	456.1	436.2	396.7	367.0
142.5°	607.8	633.1	607.8	582.5	576.1	536.0	482.8	456.1	437.8	401.4	374.1
145°	575.2	594.3	575.2	556.0	551.2	518.4	474.8	453.0	437.8	407.7	385.0
147.5°	550.1	565.9	550.1	534.3	530.3	504.5	470.1	453.0	440.8	416.6	398.5
150°	534.4	547.2	534.4	521.4	518.2	496.5	467.5	453.0	442.4	421.4	405.6
152.5°	520.8	530.6	520.8	511.0	508.7	490.1	465.3	453.0	443.4	424.4	410.2
155°	505.4	511.7	505.4	498.9	497.3	482.6	462.8	453.0	445.7	431.2	420.3
157.5°	493.1	497.6	493.1	488.5	487.4	476.0	460.6	453.0	448.0	437.9	430.5
160°	485.7	488.3	485.7	483.2	482.6	472.7	459.6	453.0	449.0	441.0	435.1
162.5°	481.0	483.5	481.0	478.5	477.9	469.6	458.6	453.0	450.1	444.3	440.0
165°	474.1	476.7	474.1	471.5	470.8	464.8	457.0	453.0	451.7	449.1	447.1
167.5°	469.1	470.2	469.1	468.0	467.7	463.8	458.7	456.1	455.0	452.8	451.1
170°	467.7	467.7	467.7	467.7	467.7	463.8	458.7	456.1	456.0	455.9	455.8
172.5°	464.0	463.1	464.0	465.0	465.2	462.1	458.1	456.1	456.1	456.1	456.1
175°	461.8	461.8	461.8	461.8	461.8	460.0	457.4	456.1	456.7	458.0	458.9
177.5°	460.0	458.9	460.0	460.9	461.2	459.8	457.7	456.7	457.2	458.2	458.9
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



TEST NUMBER: P934287

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1074.1	1068.1	1068.1	1058.1	1054.1	1051.1	1046.0	1031.1	1027.0	1023.0	1029.0
5°	1083.2	1072.1	1064.0	1046.0	1031.1	1025.0	1006.0	969.9	945.8	927.8	917.8
7.5°	1085.1	1071.1	1056.1	1028.0	991.9	975.9	917.8	851.7	833.7	817.6	807.6
10°	1083.2	1067.1	1046.0	1004.0	918.8	890.7	832.7	789.5	778.5	775.5	778.5
12.5°	1076.1	1061.0	1032.1	961.8	842.6	823.6	789.5	764.5	762.4	767.5	794.5
15°	1064.0	1050.1	1016.0	905.8	800.6	786.5	762.4	753.5	764.5	799.6	880.8
17.5°	1052.1	1036.0	993.9	850.7	768.5	758.5	741.4	759.4	821.6	868.7	895.7
20°	1036.0	1017.0	968.9	810.5	745.4	736.4	728.4	809.5	856.7	873.7	888.7
22.5°	1017.0	996.9	934.8	782.6	721.4	714.4	719.4	837.6	856.7	868.7	881.8
25°	991.9	974.9	894.7	760.4	702.4	694.3	713.4	834.6	845.6	848.7	874.7
27.5°	968.9	946.8	852.7	740.4	679.4	676.3	718.4	821.6	829.7	832.7	860.6
30°	940.8	907.8	805.6	719.4	655.3	654.3	719.4	805.6	803.6	811.5	839.6
32.5°	911.7	849.7	752.5	693.3	632.3	631.3	712.4	781.6	779.6	790.5	811.5
35°	884.7	804.6	680.4	663.3	603.2	604.2	695.3	753.5	754.5	764.5	777.5
37.5°	856.7	765.5	601.2	630.3	575.1	575.1	672.3	727.4	725.4	728.4	746.5
40°	823.6	704.4	531.1	587.1	549.1	546.1	644.2	699.4	692.3	691.3	716.4
42.5°	788.5	637.2	479.0	530.1	519.0	515.0	610.1	665.3	652.3	655.3	687.3
45°	750.5	619.2	438.8	447.9	487.9	485.0	573.1	626.2	617.2	625.2	658.3
47.5°	712.4	583.2	425.8	371.7	454.9	453.9	532.1	588.1	583.2	591.1	626.2
50°	660.2	543.0	424.8	318.6	417.8	421.8	483.0	551.1	551.1	558.1	595.2
52.5°	593.1	493.9	385.8	288.5	374.7	386.7	439.8	519.0	521.0	528.1	561.0
55°	532.1	442.8	357.7	265.5	323.6	349.7	397.8	485.9	489.9	497.0	527.0
57.5°	475.9	368.7	351.7	238.4	276.6	301.6	360.8	453.9	455.9	461.9	490.9
60°	415.8	266.5	322.6	209.4	235.5	254.5	326.6	415.8	422.8	426.8	451.9
62.5°	347.7	193.4	292.5	189.3	215.4	219.4	298.6	379.8	388.7	391.7	406.8
65°	247.5	162.3	248.5	172.3	194.4	195.4	268.5	342.6	350.7	355.7	366.7
67.5°	167.3	132.3	189.3	156.3	178.4	179.4	239.4	299.6	310.7	314.6	321.6
70°	116.2	88.1	140.2	139.2	160.4	162.3	208.4	260.6	270.5	273.5	277.6
72.5°	85.2	71.1	116.2	125.2	141.2	143.3	176.4	216.4	226.5	229.5	231.5
75°	65.1	75.1	94.2	109.3	120.2	121.2	144.3	176.4	183.4	185.4	186.4
77.5°	52.1	70.1	69.1	88.1	98.2	96.2	113.2	136.3	142.2	142.2	142.2
80°	39.0	55.1	52.1	63.1	72.1	70.1	81.2	97.2	99.2	101.2	100.2
82.5°	29.1	35.1	35.1	40.0	48.1	46.1	54.1	63.1	63.1	63.1	65.1
85°	18.0	20.0	16.0	21.0	27.1	26.1	30.1	34.1	35.1	35.1	33.1
87.5°	11.1	9.1	5.0	8.0	12.1	12.1	14.0	15.0	14.0	14.0	14.0
90°	8.1	5.6	3.1	5.6	8.1	8.7	13.5	20.1	23.4	20.8	15.5
92.5°	54.2	33.3	12.4	33.3	54.2	59.5	83.6	115.7	131.8	115.4	82.9
95°	106.2	67.8	29.6	67.8	106.2	115.7	205.6	325.4	385.3	343.8	260.9
97.5°	118.7	85.0	51.1	85.0	118.7	127.2	277.0	476.7	576.5	550.3	497.8
100°	129.1	98.4	67.7	98.4	129.1	136.8	302.9	524.5	635.2	637.1	641.0
102.5°	139.1	110.6	81.9	110.6	139.1	146.3	314.8	539.5	651.9	685.2	752.1
105°	154.4	130.2	106.0	130.2	154.4	160.5	323.6	541.2	650.0	724.9	874.6
107.5°	175.7	153.2	130.6	153.2	175.7	181.4	325.3	517.1	613.0	717.4	926.3
110°	187.9	167.5	147.2	167.5	187.9	193.0	322.8	495.8	582.3	699.0	932.6



TEST NUMBER: P934287

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	202.4	183.0	163.5	183.0	202.4	207.3	322.9	477.2	554.3	673.8	912.7
115°	224.0	206.1	188.1	206.1	224.0	228.5	325.9	455.8	520.7	635.8	866.0
117.5°	245.0	228.8	212.4	228.8	245.0	249.1	332.0	442.4	497.6	601.5	809.2
120°	257.3	241.9	226.6	241.9	257.3	261.2	336.8	437.8	488.3	583.3	773.1
122.5°	271.4	256.0	240.5	256.0	271.4	275.3	343.9	435.5	481.3	566.7	737.7
125°	289.9	275.8	261.7	275.8	289.9	293.4	353.5	433.6	473.6	546.2	691.4
127.5°	307.5	293.2	279.0	293.2	307.5	311.1	363.0	432.5	467.1	529.5	654.1
130°	318.9	303.6	288.2	303.6	318.9	322.7	370.0	433.1	464.6	520.1	631.2
132.5°	328.5	313.1	297.8	313.1	328.5	332.3	375.7	433.6	462.5	512.2	611.5
135°	339.8	325.9	311.9	325.9	339.8	343.3	381.9	433.2	458.9	500.5	583.7
137.5°	354.0	340.2	326.4	340.2	354.0	357.5	391.0	435.8	458.2	493.3	563.6
140°	363.8	351.2	338.4	351.2	363.8	367.0	396.7	436.2	456.1	486.4	547.2
142.5°	371.1	359.4	347.6	359.4	371.1	374.1	401.4	437.8	456.1	482.8	536.0
145°	382.4	372.1	361.8	372.1	382.4	385.0	407.7	437.8	453.0	474.8	518.4
147.5°	396.0	386.0	376.0	386.0	396.0	398.5	416.6	440.8	453.0	470.1	504.5
150°	403.3	394.3	385.3	394.3	403.3	405.6	421.4	442.4	453.0	467.5	496.5
152.5°	408.5	401.6	394.7	401.6	408.5	410.2	424.4	443.4	453.0	465.3	490.1
155°	419.0	414.0	409.0	414.0	419.0	420.3	431.2	445.7	453.0	462.8	482.6
157.5°	429.3	424.3	419.4	424.3	429.3	430.5	437.9	448.0	453.0	460.6	476.0
160°	434.1	430.3	426.5	430.3	434.1	435.1	441.0	449.0	453.0	459.6	472.7
162.5°	439.3	436.4	433.6	436.4	439.3	440.0	444.3	450.1	453.0	458.6	469.6
165°	446.4	443.8	441.2	443.8	446.4	447.1	449.1	451.7	453.0	457.0	464.8
167.5°	450.8	449.5	448.3	449.5	450.8	451.1	452.8	455.0	456.1	458.7	463.8
170°	455.5	454.2	453.0	454.2	455.5	455.8	455.9	456.0	456.1	458.7	463.8
172.5°	456.0	455.8	455.5	455.8	456.0	456.1	456.1	456.1	456.1	458.1	462.1
175°	458.9	458.9	458.9	458.9	458.9	458.9	458.0	456.7	456.1	457.4	460.0
177.5°	458.9	458.9	458.9	458.9	458.9	458.9	458.2	457.2	456.7	457.7	459.8
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



TEST NUMBER: P934287

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1022.0	1019.0	1023.0	1011.9	1023.0	1019.0	1022.0	1029.0	1023.0	1027.0	1031.1
5°	896.8	891.7	875.7	862.6	875.7	891.7	896.8	917.8	927.8	945.8	969.9
7.5°	801.6	797.6	793.5	785.5	793.5	797.6	801.6	807.6	817.6	833.7	851.7
10°	780.6	781.6	787.5	786.5	787.5	781.6	780.6	778.5	775.5	778.5	789.5
12.5°	834.6	843.6	876.7	874.7	876.7	843.6	834.6	794.5	767.5	762.4	764.5
15°	896.8	899.8	906.8	907.8	906.8	899.8	896.8	880.8	799.6	764.5	753.5
17.5°	902.8	903.8	908.8	908.8	908.8	903.8	902.8	895.7	868.7	821.6	759.4
20°	897.8	899.8	909.7	911.7	909.7	899.8	897.8	888.7	873.7	856.7	809.5
22.5°	895.7	899.8	907.8	906.8	907.8	899.8	895.7	881.8	868.7	856.7	837.6
25°	885.7	885.7	886.7	887.7	886.7	885.7	885.7	874.7	848.7	845.6	834.6
27.5°	864.7	866.7	872.7	871.7	872.7	866.7	864.7	860.6	832.7	829.7	821.6
30°	845.6	843.6	838.6	834.6	838.6	843.6	845.6	839.6	811.5	803.6	805.6
32.5°	813.6	808.6	803.6	800.6	803.6	808.6	813.6	811.5	790.5	779.6	781.6
35°	775.5	776.5	775.5	772.5	775.5	776.5	775.5	777.5	764.5	754.5	753.5
37.5°	748.5	750.5	749.5	745.4	749.5	750.5	748.5	746.5	728.4	725.4	727.4
40°	720.4	721.4	720.4	717.4	720.4	721.4	720.4	716.4	691.3	692.3	699.4
42.5°	693.3	692.3	689.3	687.3	689.3	692.3	693.3	687.3	655.3	652.3	665.3
45°	662.3	663.3	657.3	654.3	657.3	663.3	662.3	658.3	625.2	617.2	626.2
47.5°	631.3	631.3	626.2	623.2	626.2	631.3	631.3	626.2	591.1	583.2	588.1
50°	598.2	597.2	590.1	589.1	590.1	597.2	598.2	595.2	558.1	551.1	551.1
52.5°	560.1	560.1	561.0	563.1	561.0	560.1	560.1	561.0	528.1	521.0	519.0
55°	527.0	528.1	535.1	537.0	535.1	528.1	527.0	527.0	497.0	489.9	485.9
57.5°	492.9	492.9	498.0	498.0	498.0	492.9	492.9	490.9	461.9	455.9	453.9
60°	453.9	455.9	459.9	458.9	459.9	455.9	453.9	451.9	426.8	422.8	415.8
62.5°	412.8	414.8	415.8	413.8	415.8	414.8	412.8	406.8	391.7	388.7	379.8
65°	369.7	371.7	372.7	370.7	372.7	371.7	369.7	366.7	355.7	350.7	342.6
67.5°	325.6	324.6	323.6	327.7	323.6	324.6	325.6	321.6	314.6	310.7	299.6
70°	280.6	280.6	279.6	281.6	279.6	280.6	280.6	277.6	273.5	270.5	260.6
72.5°	232.5	231.5	235.5	232.5	235.5	231.5	232.5	231.5	229.5	226.5	216.4
75°	185.4	187.3	185.4	188.3	185.4	187.3	185.4	186.4	185.4	183.4	176.4
77.5°	141.2	143.3	141.2	141.2	141.2	143.3	141.2	142.2	142.2	142.2	136.3
80°	100.2	99.2	99.2	98.2	99.2	99.2	100.2	100.2	101.2	99.2	97.2
82.5°	64.1	63.1	63.1	65.1	63.1	63.1	64.1	65.1	63.1	63.1	63.1
85°	35.1	36.1	34.1	34.1	34.1	36.1	35.1	33.1	35.1	35.1	34.1
87.5°	13.0	12.1	12.1	12.1	12.1	12.1	13.0	14.0	14.0	14.0	15.0
90°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	15.5	20.8	23.4	20.1
92.5°	58.5	56.2	46.8	37.5	46.8	56.2	58.5	82.9	115.4	131.8	115.7
95°	198.6	191.5	163.3	135.2	163.3	191.5	198.6	260.9	343.8	385.3	325.4
97.5°	458.5	445.0	391.4	337.8	391.4	445.0	458.5	497.8	550.3	576.5	476.7
100°	643.9	628.0	564.0	500.1	564.0	628.0	643.9	641.0	637.1	635.2	524.5
102.5°	802.2	788.5	733.8	679.0	733.8	788.5	802.2	752.1	685.2	651.9	539.5
105°	986.9	979.6	950.2	920.7	950.2	979.6	986.9	874.6	724.9	650.0	541.2
107.5°	1083.0	1084.7	1091.8	1099.0	1091.8	1084.7	1083.0	926.3	717.4	613.0	517.1
110°	1107.7	1115.3	1145.9	1176.6	1145.9	1115.3	1107.7	932.6	699.0	582.3	495.8



TEST NUMBER: P934287

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1091.9	1103.7	1150.8	1197.8	1150.8	1103.7	1091.9	912.7	673.8	554.3	477.2
115°	1038.6	1055.0	1120.2	1185.5	1120.2	1055.0	1038.6	866.0	635.8	520.7	455.8
117.5°	965.0	983.2	1055.6	1128.0	1055.6	983.2	965.0	809.2	601.5	497.6	442.4
120°	915.4	933.1	1003.4	1073.8	1003.4	933.1	915.4	773.1	583.3	488.3	437.8
122.5°	865.9	883.3	952.7	1022.0	952.7	883.3	865.9	737.7	566.7	481.3	435.5
125°	800.3	816.2	880.2	944.1	880.2	816.2	800.3	691.4	546.2	473.6	433.6
127.5°	747.6	761.0	815.0	869.0	815.0	761.0	747.6	654.1	529.5	467.1	432.5
130°	714.4	726.9	776.7	826.5	776.7	726.9	714.4	631.2	520.1	464.6	433.1
132.5°	686.0	697.2	741.8	786.4	741.8	697.2	686.0	611.5	512.2	462.5	433.6
135°	646.0	655.7	694.1	732.6	694.1	655.7	646.0	583.7	500.5	458.9	433.2
137.5°	616.4	624.3	655.9	687.3	655.9	624.3	616.4	563.6	493.3	458.2	435.8
140°	592.7	600.1	629.5	659.0	629.5	600.1	592.7	547.2	486.4	456.1	436.2
142.5°	576.1	582.5	607.8	633.1	607.8	582.5	576.1	536.0	482.8	456.1	437.8
145°	551.2	556.0	575.2	594.3	575.2	556.0	551.2	518.4	474.8	453.0	437.8
147.5°	530.3	534.3	550.1	565.9	550.1	534.3	530.3	504.5	470.1	453.0	440.8
150°	518.2	521.4	534.4	547.2	534.4	521.4	518.2	496.5	467.5	453.0	442.4
152.5°	508.7	511.0	520.8	530.6	520.8	511.0	508.7	490.1	465.3	453.0	443.4
155°	497.3	498.9	505.4	511.7	505.4	498.9	497.3	482.6	462.8	453.0	445.7
157.5°	487.4	488.5	493.1	497.6	493.1	488.5	487.4	476.0	460.6	453.0	448.0
160°	482.6	483.2	485.7	488.3	485.7	483.2	482.6	472.7	459.6	453.0	449.0
162.5°	477.9	478.5	481.0	483.5	481.0	478.5	477.9	469.6	458.6	453.0	450.1
165°	470.8	471.5	474.1	476.7	474.1	471.5	470.8	464.8	457.0	453.0	451.7
167.5°	467.7	468.0	469.1	470.2	469.1	468.0	467.7	463.8	458.7	456.1	455.0
170°	467.7	467.7	467.7	467.7	467.7	467.7	467.7	463.8	458.7	456.1	456.0
172.5°	465.2	465.0	464.0	463.1	464.0	465.0	465.2	462.1	458.1	456.1	456.1
175°	461.8	461.8	461.8	461.8	461.8	461.8	461.8	460.0	457.4	456.1	456.7
177.5°	461.2	460.9	460.0	458.9	460.0	460.9	461.2	459.8	457.7	456.7	457.2
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1046.0	1051.1	1054.1	1058.1	1068.1
5°	1006.0	1025.0	1031.1	1046.0	1064.0
7.5°	917.8	975.9	991.9	1028.0	1056.1
10°	832.7	890.7	918.8	1004.0	1046.0
12.5°	789.5	823.6	842.6	961.8	1032.1
15°	762.4	786.5	800.6	905.8	1016.0
17.5°	741.4	758.5	768.5	850.7	993.9
20°	728.4	736.4	745.4	810.5	968.9
22.5°	719.4	714.4	721.4	782.6	934.8
25°	713.4	694.3	702.4	760.4	894.7
27.5°	718.4	676.3	679.4	740.4	852.7
30°	719.4	654.3	655.3	719.4	805.6
32.5°	712.4	631.3	632.3	693.3	752.5
35°	695.3	604.2	603.2	663.3	680.4
37.5°	672.3	575.1	575.1	630.3	601.2
40°	644.2	546.1	549.1	587.1	531.1
42.5°	610.1	515.0	519.0	530.1	479.0
45°	573.1	485.0	487.9	447.9	438.8
47.5°	532.1	453.9	454.9	371.7	425.8
50°	483.0	421.8	417.8	318.6	424.8
52.5°	439.8	386.7	374.7	288.5	385.8
55°	397.8	349.7	323.6	265.5	357.7
57.5°	360.8	301.6	276.6	238.4	351.7
60°	326.6	254.5	235.5	209.4	322.6
62.5°	298.6	219.4	215.4	189.3	292.5
65°	268.5	195.4	194.4	172.3	248.5
67.5°	239.4	179.4	178.4	156.3	189.3
70°	208.4	162.3	160.4	139.2	140.2
72.5°	176.4	143.3	141.2	125.2	116.2
75°	144.3	121.2	120.2	109.3	94.2
77.5°	113.2	96.2	98.2	88.1	69.1
80°	81.2	70.1	72.1	63.1	52.1
82.5°	54.1	46.1	48.1	40.0	35.1
85°	30.1	26.1	27.1	21.0	16.0
87.5°	14.0	12.1	12.1	8.0	5.0
90°	13.5	8.7	8.1	5.6	3.1
92.5°	83.6	59.5	54.2	33.3	12.4
95°	205.6	115.7	106.2	67.8	29.6
97.5°	277.0	127.2	118.7	85.0	51.1
100°	302.9	136.8	129.1	98.4	67.7
102.5°	314.8	146.3	139.1	110.6	81.9
105°	323.6	160.5	154.4	130.2	106.0
107.5°	325.3	181.4	175.7	153.2	130.6
110°	322.8	193.0	187.9	167.5	147.2



TEST NUMBER: P934287

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	322.9	207.3	202.4	183.0	163.5
115°	325.9	228.5	224.0	206.1	188.1
117.5°	332.0	249.1	245.0	228.8	212.4
120°	336.8	261.2	257.3	241.9	226.6
122.5°	343.9	275.3	271.4	256.0	240.5
125°	353.5	293.4	289.9	275.8	261.7
127.5°	363.0	311.1	307.5	293.2	279.0
130°	370.0	322.7	318.9	303.6	288.2
132.5°	375.7	332.3	328.5	313.1	297.8
135°	381.9	343.3	339.8	325.9	311.9
137.5°	391.0	357.5	354.0	340.2	326.4
140°	396.7	367.0	363.8	351.2	338.4
142.5°	401.4	374.1	371.1	359.4	347.6
145°	407.7	385.0	382.4	372.1	361.8
147.5°	416.6	398.5	396.0	386.0	376.0
150°	421.4	405.6	403.3	394.3	385.3
152.5°	424.4	410.2	408.5	401.6	394.7
155°	431.2	420.3	419.0	414.0	409.0
157.5°	437.9	430.5	429.3	424.3	419.4
160°	441.0	435.1	434.1	430.3	426.5
162.5°	444.3	440.0	439.3	436.4	433.6
165°	449.1	447.1	446.4	443.8	441.2
167.5°	452.8	451.1	450.8	449.5	448.3
170°	455.9	455.8	455.5	454.2	453.0
172.5°	456.1	456.1	456.0	455.8	455.5
175°	458.0	458.9	458.9	458.9	458.9
177.5°	458.2	458.9	458.9	458.9	458.9
180°	458.9	458.9	458.9	458.9	458.9



TEST NUMBER: P934287  
 CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-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	11.15	11.99	12.12	12.98	14.28	13.97	14.82	14.95	15.80	17.10
	3H	11.62	12.38	12.61	13.38	14.70	15.31	16.07	16.30	17.07	18.39
	4H	11.81	12.53	12.81	13.53	14.86	15.76	16.47	16.76	17.47	18.80
	6H	11.93	12.59	12.94	13.60	14.94	16.04	16.70	17.05	17.70	19.04
	8H	11.93	12.56	12.95	13.58	14.92	16.11	16.74	17.13	17.76	19.10
	12H	11.90	12.50	12.92	13.51	14.88	16.15	16.75	17.17	17.76	19.12
4H	2H	12.18	12.89	13.18	13.89	15.22	14.38	15.10	15.38	16.10	17.42
	3H	13.20	13.80	14.22	14.83	16.17	15.88	16.48	16.90	17.51	18.85
	4H	13.48	14.02	14.50	15.04	16.41	16.41	16.95	17.43	17.97	19.34
	6H	13.60	14.07	14.63	15.12	16.48	16.77	17.24	17.80	18.28	19.65
	8H	13.61	14.04	14.64	15.08	16.46	16.88	17.31	17.91	18.35	19.73
	12H	13.57	13.97	14.62	15.02	16.40	16.93	17.33	17.98	18.38	19.76
8H	4H	13.93	14.37	14.96	15.40	16.78	16.53	16.97	17.56	18.01	19.38
	6H	14.19	14.55	15.25	15.63	17.01	16.97	17.33	18.02	18.41	19.78
	8H	14.23	14.55	15.30	15.61	17.01	17.12	17.43	18.18	18.50	19.89
	12H	14.21	14.50	15.28	15.55	16.99	17.21	17.49	18.28	18.55	19.99
12H	4H	13.93	14.33	14.99	15.38	16.77	16.49	16.89	17.55	17.94	19.33
	6H	14.25	14.57	15.31	15.63	17.03	16.96	17.28	18.03	18.35	19.74
	8H	14.32	14.60	15.38	15.66	17.09	17.12	17.40	18.19	18.46	19.90