

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: P934431

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

**Test Information**

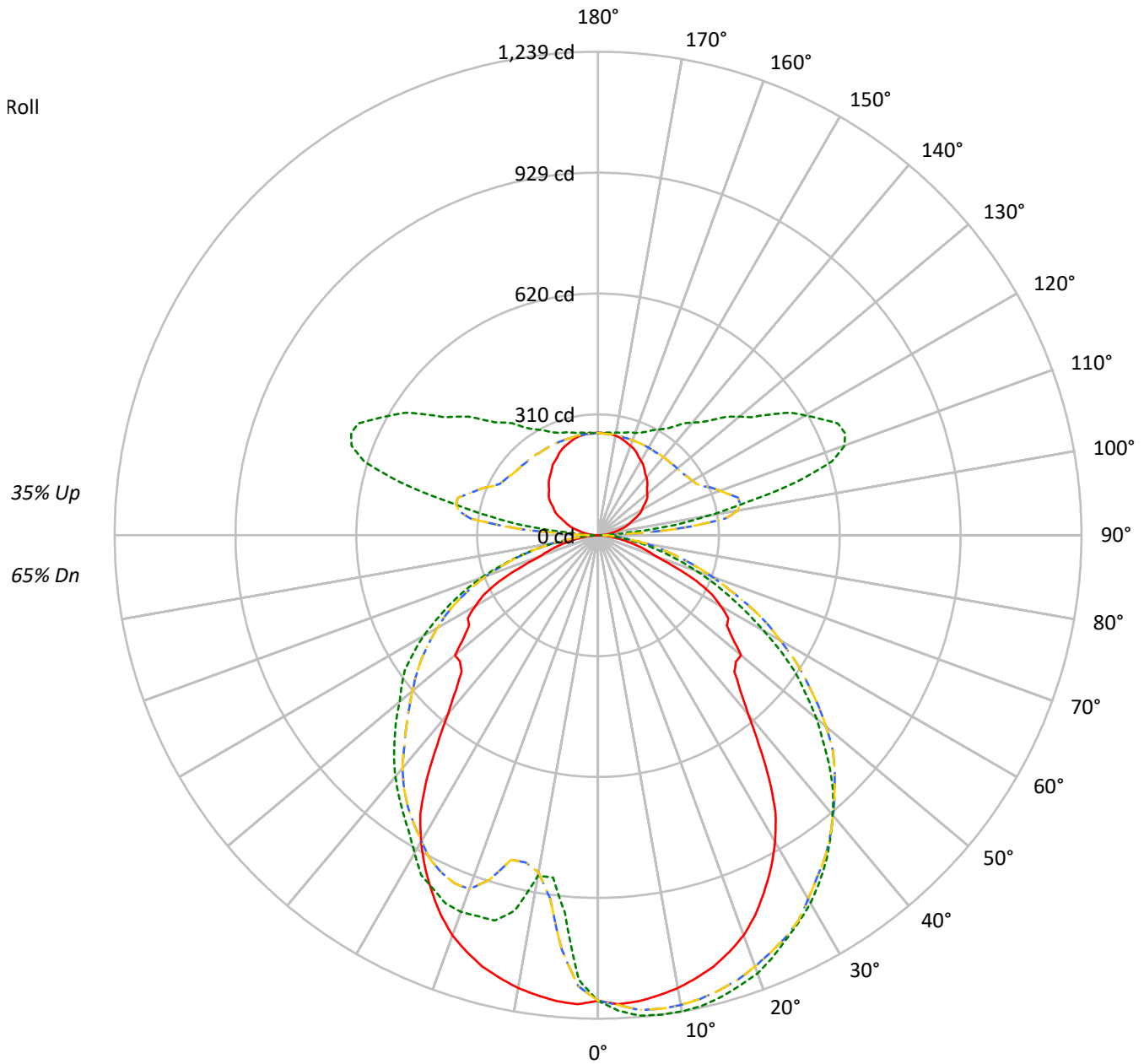
Test Method: LM-79-2019  
Report Number: P934431  
REPORT IS A COMBINATION OF REPORTS P933698 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4794.2 lumens  
Efficiency: N/A  
Efficacy: 106.1 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): 45.2  
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-100D-92765-1D-UNV-STD-W-4-2700K

### 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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

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

	0°	90°	180°	270°
0°	11068	11068	11068	11068
5°	11139	11174	11139	8786
10°	11053	11006	11053	7869
15°	10920	10767	10920	8991
20°	10678	10485	10678	9010
25°	10199	10074	10199	8818
30°	9583	9731	9583	8401
35°	8530	9299	8530	7939
40°	7096	8789	7096	7591
45°	6328	8193	6328	7191
50°	6708	7482	6708	6790
55°	6293	6716	6293	6557
60°	6462	5704	6462	6005
65°	5833	4714	5833	5271
70°	4011	3757	4011	4418
75°	3479	2776	3479	3327
80°	2747	1837	2747	2000
85°	1490	972	1490	827

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 9717 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.7	2.2
10°-20°	305.7	6.4
20°-30°	472.6	9.9
30°-40°	564.2	11.8
40°-50°	567.5	11.8
50°-60°	493.8	10.3
60°-70°	350.1	7.3
70°-80°	185.2	3.9
80°-90°	47.1	1.0
90°-100°	127.8	2.7
100°-110°	336.1	7.0
110°-120°	348.5	7.3
120°-130°	279.6	5.8
130°-140°	219.4	4.6
140°-150°	168.4	3.5
150°-160°	121.3	2.5
160°-170°	74.2	1.5
170°-180°	25.1	0.5
0°-30°	886.0	18.5
0°-40°	1450.1	30.2
0°-60°	2511.4	52.4
0°-90°	3093.8	64.5
90°-120°	812.5	16.9
90°-150°	1479.9	30.9
90°-180°	1700.0	35.5
0°-180°	4794.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1193	1193	1193	1193	1193	
5°	1198	1236	1198	972	1198	114
15°	1144	1224	1144	1022	1144	322
25°	1008	1142	1008	1000	1008	463
35°	766	1019	766	870	766	474
45°	494	840	494	737	494	396
55°	403	620	403	605	403	370
65°	280	374	280	418	280	267
75°	106	177	106	212	106	112
85°	18	45	18	38	18	24
90°	2	7	2	7	2	2
95°	17	77	17	77	17	19
105°	61	526	61	526	61	64
115°	108	678	108	678	108	106
125°	150	540	150	540	150	133
135°	178	419	178	419	178	138
145°	207	340	207	340	207	130
155°	234	293	234	293	234	107
165°	252	273	252	273	252	71
175°	262	264	262	264	262	25
180°	262	262	262	262	262	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1203.0	1203.0	1209.8	1212.0	1212.0	1208.6	1205.3	1208.6	1218.8	1222.2	1221.1
5°	1198.5	1207.5	1220.0	1222.2	1224.4	1223.3	1221.1	1223.3	1234.6	1236.9	1238.0
7.5°	1189.5	1206.4	1222.2	1225.6	1228.9	1225.6	1224.4	1226.7	1238.0	1240.2	1240.2
10°	1178.2	1201.8	1220.0	1222.2	1225.6	1222.2	1222.2	1226.7	1238.0	1240.2	1241.4
12.5°	1162.4	1195.1	1212.0	1214.3	1218.8	1217.6	1216.5	1221.1	1232.3	1234.6	1234.6
15°	1144.3	1182.7	1198.5	1200.7	1208.6	1206.4	1206.4	1210.9	1223.3	1226.7	1225.6
17.5°	1119.5	1166.9	1184.9	1188.3	1194.0	1192.8	1194.0	1198.5	1209.8	1212.0	1213.1
20°	1091.2	1145.5	1166.9	1170.2	1175.9	1175.9	1175.9	1181.5	1192.8	1197.3	1197.3
22.5°	1052.9	1122.8	1145.5	1147.7	1154.4	1154.4	1156.7	1164.6	1174.8	1175.9	1175.9
25°	1007.8	1098.1	1117.2	1124.0	1130.8	1134.1	1137.5	1142.1	1145.5	1144.3	1145.5
27.5°	960.4	1066.5	1091.2	1095.8	1104.8	1108.2	1112.7	1113.9	1115.0	1118.3	1116.1
30°	907.3	1022.4	1059.6	1064.2	1078.8	1081.1	1076.6	1078.8	1084.5	1086.8	1089.0
32.5°	847.5	957.0	1026.9	1037.1	1050.7	1043.8	1042.7	1046.1	1055.2	1055.2	1057.4
35°	766.2	906.2	996.5	1005.5	1015.6	1007.8	1012.2	1013.4	1019.1	1022.4	1021.3
37.5°	677.1	862.2	964.9	971.7	979.5	969.3	976.2	979.5	984.0	981.8	981.8
40°	598.1	793.3	927.7	932.1	938.9	931.0	937.7	940.1	942.3	940.1	938.9
42.5°	539.5	717.7	888.1	893.8	889.2	894.9	897.2	901.7	898.3	893.8	893.8
45°	494.3	697.4	845.2	852.0	845.2	854.3	857.6	857.6	847.5	845.2	844.1
47.5°	479.6	656.8	802.4	802.4	799.0	810.2	815.9	808.0	797.8	794.5	794.5
50°	478.5	611.6	743.7	739.2	755.0	768.5	762.9	755.0	747.1	734.6	734.6
52.5°	434.5	556.4	668.1	685.0	709.9	717.7	708.7	700.8	687.2	681.6	677.1
55°	402.9	498.8	599.3	633.1	659.0	669.2	652.3	644.4	624.0	620.7	618.4
57.5°	396.1	415.3	536.1	578.9	610.5	609.4	599.3	584.6	567.7	564.2	563.1
60°	363.3	300.1	468.3	519.1	551.9	548.4	539.5	525.9	510.1	507.9	505.6
62.5°	329.5	217.8	391.6	449.2	495.4	494.3	486.4	466.1	454.8	449.2	444.7
65°	279.9	182.8	278.7	373.5	440.1	442.4	425.4	410.8	398.4	391.6	390.4
67.5°	213.3	149.0	188.4	311.5	387.1	384.8	363.3	356.6	340.8	337.4	330.6
70°	158.0	99.3	130.9	252.8	335.2	329.5	312.6	304.7	290.1	282.1	277.6
72.5°	130.9	80.1	95.9	196.4	282.1	275.4	260.7	251.6	239.2	232.5	228.0
75°	106.1	84.6	73.4	145.5	229.1	224.6	211.1	202.0	191.8	182.8	184.0
77.5°	77.9	79.0	58.7	107.2	181.7	174.9	167.0	155.7	151.2	142.2	142.2
80°	58.7	62.1	44.0	73.4	130.9	130.9	124.1	116.2	108.3	103.9	103.9
82.5°	39.5	39.5	32.7	46.3	89.2	85.8	81.2	79.0	74.5	72.3	72.3
85°	18.0	22.5	20.3	28.2	48.5	50.8	50.8	48.5	47.4	45.1	46.3
87.5°	5.6	10.2	12.4	15.8	24.9	26.0	27.1	27.1	27.1	28.2	28.2
90°	1.8	3.2	4.6	5.0	7.8	11.5	13.4	11.9	8.9	6.7	6.7
92.5°	7.0	19.0	31.0	34.0	47.7	66.1	75.3	66.0	47.4	33.5	32.1
95°	16.9	38.8	60.7	66.2	117.5	185.9	220.2	196.4	149.0	113.5	109.5
97.5°	29.2	48.5	67.8	72.7	158.3	272.5	329.5	314.6	284.6	262.1	254.4
100°	38.7	56.2	73.8	78.2	173.1	299.8	363.2	364.3	366.5	368.1	359.0
102.5°	46.8	63.2	79.5	83.6	180.0	308.4	372.7	391.8	430.0	458.6	450.7
105°	60.6	74.4	88.2	91.7	185.0	309.5	371.6	414.4	500.0	564.2	560.1
107.5°	74.7	87.5	100.4	103.7	185.9	295.7	350.5	410.2	529.6	619.2	620.2
110°	84.1	95.7	107.4	110.4	184.6	283.5	332.9	399.6	533.1	633.3	637.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	93.4	104.5	115.6	118.5	184.6	272.8	316.9	385.2	521.8	624.3	631.0
115°	107.5	117.8	128.0	130.6	186.3	260.5	297.7	363.4	495.1	593.8	603.1
117.5°	121.5	130.8	140.1	142.4	189.8	252.9	284.5	343.9	462.6	551.7	562.0
120°	129.6	138.4	147.1	149.3	192.6	250.3	279.2	333.5	442.0	523.4	533.5
122.5°	137.5	146.4	155.2	157.4	196.6	249.0	275.1	324.0	421.8	495.1	505.0
125°	149.6	157.7	165.7	167.8	202.1	247.9	270.8	312.3	395.3	457.6	466.7
127.5°	159.5	167.7	175.8	177.8	207.6	247.3	267.1	302.7	373.9	427.4	435.1
130°	164.8	173.6	182.3	184.5	211.6	247.6	265.6	297.4	360.9	408.4	415.5
132.5°	170.2	179.0	187.7	190.0	214.8	247.9	264.4	292.8	349.6	392.2	398.6
135°	178.3	186.3	194.3	196.3	218.3	247.6	262.3	286.0	333.6	369.3	374.8
137.5°	186.6	194.5	202.4	204.4	223.6	249.1	262.0	282.0	322.3	352.4	356.9
140°	193.5	200.7	208.1	209.9	226.8	249.4	260.7	278.1	312.9	338.9	343.1
142.5°	198.8	205.5	212.2	213.9	229.5	250.3	260.7	276.0	306.5	329.4	332.9
145°	206.9	212.7	218.6	220.0	233.0	250.3	259.0	271.4	296.4	315.1	317.8
147.5°	215.0	220.7	226.3	227.8	238.2	252.1	259.0	268.8	288.4	303.1	305.4
150°	220.2	225.3	230.5	231.8	240.9	252.9	259.0	267.3	283.8	296.3	298.2
152.5°	225.7	229.6	233.5	234.5	242.7	253.5	259.0	266.1	280.2	290.8	292.2
155°	233.8	236.7	239.6	240.3	246.5	254.8	259.0	264.6	275.9	284.3	285.3
157.5°	239.8	242.6	245.4	246.1	250.3	256.1	259.0	263.3	272.1	278.7	279.4
160°	243.9	246.0	248.2	248.7	252.1	256.7	259.0	262.7	270.2	275.9	276.2
162.5°	247.9	249.5	251.1	251.5	254.0	257.3	259.0	262.1	268.5	273.2	273.6
165°	252.3	253.8	255.3	255.6	256.8	258.2	259.0	261.2	265.7	269.1	269.5
167.5°	256.3	257.0	257.7	257.9	258.8	260.1	260.7	262.2	265.2	267.4	267.6
170°	259.0	259.7	260.3	260.5	260.6	260.7	260.7	262.2	265.2	267.4	267.4
172.5°	260.3	260.5	260.7	260.7	260.7	260.7	260.7	261.9	264.2	266.0	265.8
175°	262.3	262.3	262.3	262.3	261.8	261.0	260.7	261.4	263.0	264.1	264.1
177.5°	262.3	262.3	262.3	262.3	261.9	261.4	261.1	261.7	262.9	263.8	263.6
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1223.3	1220.0	1223.3	1221.1	1222.2	1218.8	1208.6	1205.3	1208.6	1212.0	1212.0
5°	1238.0	1235.8	1238.0	1238.0	1236.9	1234.6	1223.3	1221.1	1223.3	1224.4	1222.2
7.5°	1242.5	1239.1	1242.5	1240.2	1240.2	1238.0	1226.7	1224.4	1225.6	1228.9	1225.6
10°	1242.5	1239.1	1242.5	1241.4	1240.2	1238.0	1226.7	1222.2	1222.2	1225.6	1222.2
12.5°	1236.9	1234.6	1236.9	1234.6	1234.6	1232.3	1221.1	1216.5	1217.6	1218.8	1214.3
15°	1227.8	1224.4	1227.8	1225.6	1226.7	1223.3	1210.9	1206.4	1206.4	1208.6	1200.7
17.5°	1214.3	1209.8	1214.3	1213.1	1212.0	1209.8	1198.5	1194.0	1192.8	1194.0	1188.3
20°	1198.5	1195.1	1198.5	1197.3	1197.3	1192.8	1181.5	1175.9	1175.9	1175.9	1170.2
22.5°	1173.7	1170.2	1173.7	1175.9	1175.9	1174.8	1164.6	1156.7	1154.4	1154.4	1147.7
25°	1145.5	1142.1	1145.5	1145.5	1144.3	1145.5	1142.1	1137.5	1134.1	1130.8	1124.0
27.5°	1118.3	1116.1	1118.3	1116.1	1118.3	1115.0	1113.9	1112.7	1108.2	1104.8	1095.8
30°	1091.2	1089.0	1091.2	1089.0	1086.8	1084.5	1078.8	1076.6	1081.1	1078.8	1064.2
32.5°	1057.4	1055.2	1057.4	1057.4	1055.2	1055.2	1046.1	1042.7	1043.8	1050.7	1037.1
35°	1022.4	1019.1	1022.4	1021.3	1022.4	1019.1	1013.4	1012.2	1007.8	1015.6	1005.5
37.5°	981.8	978.4	981.8	981.8	981.8	984.0	979.5	976.2	969.3	979.5	971.7
40°	940.1	935.5	940.1	938.9	940.1	942.3	940.1	937.7	931.0	938.9	932.1
42.5°	892.6	891.5	892.6	893.8	893.8	898.3	901.7	897.2	894.9	889.2	893.8
45°	841.8	839.6	841.8	844.1	845.2	847.5	857.6	857.6	854.3	845.2	852.0
47.5°	787.7	782.0	787.7	794.5	794.5	797.8	808.0	815.9	810.2	799.0	802.4
50°	730.1	731.3	730.1	734.6	734.6	747.1	755.0	762.9	768.5	755.0	739.2
52.5°	673.7	672.6	673.7	677.1	681.6	687.2	700.8	708.7	717.7	709.9	685.0
55°	617.3	619.6	617.3	618.4	620.7	624.0	644.4	652.3	669.2	659.0	633.1
57.5°	560.9	557.5	560.9	563.1	564.2	567.7	584.6	599.3	609.4	610.5	578.9
60°	495.4	490.9	495.4	505.6	507.9	510.1	525.9	539.5	548.4	551.9	519.1
62.5°	437.8	430.0	437.8	444.7	449.2	454.8	466.1	486.4	494.3	495.4	449.2
65°	376.9	373.5	376.9	390.4	391.6	398.4	410.8	425.4	442.4	440.1	373.5
67.5°	321.7	321.7	321.7	330.6	337.4	340.8	356.6	363.3	384.8	387.1	311.5
70°	270.8	269.7	270.8	277.6	282.1	290.1	304.7	312.6	329.5	335.2	252.8
72.5°	222.3	221.2	222.3	228.0	232.5	239.2	251.6	260.7	275.4	282.1	196.4
75°	179.5	177.1	179.5	184.0	182.8	191.8	202.0	211.1	224.6	229.1	145.5
77.5°	137.7	137.7	137.7	142.2	142.2	151.2	155.7	167.0	174.9	181.7	107.2
80°	102.7	101.6	102.7	103.9	103.9	108.3	116.2	124.1	130.9	130.9	73.4
82.5°	72.3	70.0	72.3	72.3	72.3	74.5	79.0	81.2	85.8	89.2	46.3
85°	45.1	45.1	45.1	46.3	45.1	47.4	48.5	50.8	50.8	48.5	28.2
87.5°	29.4	28.2	29.4	28.2	28.2	27.1	27.1	27.1	26.0	24.9	15.8
90°	6.7	6.7	6.7	6.7	6.7	8.9	11.9	13.4	11.5	7.8	5.0
92.5°	26.8	21.4	26.8	32.1	33.5	47.4	66.0	75.3	66.1	47.7	34.0
95°	93.4	77.3	93.4	109.5	113.5	149.0	196.4	220.2	185.9	117.5	66.2
97.5°	223.8	193.1	223.8	254.4	262.1	284.6	314.6	329.5	272.5	158.3	72.7
100°	322.4	285.9	322.4	359.0	368.1	366.5	364.3	363.2	299.8	173.1	78.2
102.5°	419.5	388.2	419.5	450.7	458.6	430.0	391.8	372.7	308.4	180.0	83.6
105°	543.2	526.4	543.2	560.1	564.2	500.0	414.4	371.6	309.5	185.0	91.7
107.5°	624.2	628.3	624.2	620.2	619.2	529.6	410.2	350.5	295.7	185.9	103.7
110°	655.1	672.6	655.1	637.6	633.3	533.1	399.6	332.9	283.5	184.6	110.4





TEST NUMBER: P934431

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	657.9	684.8	657.9	631.0	624.3	521.8	385.2	316.9	272.8	184.6	118.5
115°	640.4	677.8	640.4	603.1	593.8	495.1	363.4	297.7	260.5	186.3	130.6
117.5°	603.4	644.9	603.4	562.0	551.7	462.6	343.9	284.5	252.9	189.8	142.4
120°	573.6	613.9	573.6	533.5	523.4	442.0	333.5	279.2	250.3	192.6	149.3
122.5°	544.7	584.3	544.7	505.0	495.1	421.8	324.0	275.1	249.0	196.6	157.4
125°	503.2	539.7	503.2	466.7	457.6	395.3	312.3	270.8	247.9	202.1	167.8
127.5°	465.9	496.8	465.9	435.1	427.4	373.9	302.7	267.1	247.3	207.6	177.8
130°	444.1	472.5	444.1	415.5	408.4	360.9	297.4	265.6	247.6	211.6	184.5
132.5°	424.1	449.6	424.1	398.6	392.2	349.6	292.8	264.4	247.9	214.8	190.0
135°	396.8	418.8	396.8	374.8	369.3	333.6	286.0	262.3	247.6	218.3	196.3
137.5°	374.9	392.9	374.9	356.9	352.4	322.3	282.0	262.0	249.1	223.6	204.4
140°	359.9	376.8	359.9	343.1	338.9	312.9	278.1	260.7	249.4	226.8	209.9
142.5°	347.5	362.0	347.5	332.9	329.4	306.5	276.0	260.7	250.3	229.5	213.9
145°	328.8	339.8	328.8	317.8	315.1	296.4	271.4	259.0	250.3	233.0	220.0
147.5°	314.5	323.5	314.5	305.4	303.1	288.4	268.8	259.0	252.1	238.2	227.8
150°	305.5	312.9	305.5	298.2	296.3	283.8	267.3	259.0	252.9	240.9	231.8
152.5°	297.7	303.3	297.7	292.2	290.8	280.2	266.1	259.0	253.5	242.7	234.5
155°	289.0	292.6	289.0	285.3	284.3	275.9	264.6	259.0	254.8	246.5	240.3
157.5°	281.9	284.5	281.9	279.4	278.7	272.1	263.3	259.0	256.1	250.3	246.1
160°	277.8	279.2	277.8	276.2	275.9	270.2	262.7	259.0	256.7	252.1	248.7
162.5°	275.0	276.4	275.0	273.6	273.2	268.5	262.1	259.0	257.3	254.0	251.5
165°	271.0	272.6	271.0	269.5	269.1	265.7	261.2	259.0	258.2	256.8	255.6
167.5°	268.2	268.8	268.2	267.6	267.4	265.2	262.2	260.7	260.1	258.8	257.9
170°	267.4	267.4	267.4	267.4	267.4	265.2	262.2	260.7	260.7	260.6	260.5
172.5°	265.3	264.8	265.3	265.8	266.0	264.2	261.9	260.7	260.7	260.7	260.7
175°	264.1	264.1	264.1	264.1	264.1	263.0	261.4	260.7	261.0	261.8	262.3
177.5°	263.0	262.3	263.0	263.6	263.8	262.9	261.7	261.1	261.4	261.9	262.3
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



TEST NUMBER: P934431

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1209.8	1203.0	1203.0	1191.7	1187.2	1183.8	1178.2	1161.3	1156.7	1152.2	1159.0
5°	1220.0	1207.5	1198.5	1178.2	1161.3	1154.4	1133.0	1092.4	1065.3	1045.0	1033.8
7.5°	1222.2	1206.4	1189.5	1157.9	1117.2	1099.2	1033.8	959.3	938.9	920.8	909.6
10°	1220.0	1201.8	1178.2	1130.8	1034.9	1003.3	937.7	889.2	876.8	873.4	876.8
12.5°	1212.0	1195.1	1162.4	1083.4	949.1	927.7	889.2	861.0	858.8	864.5	894.9
15°	1198.5	1182.7	1144.3	1020.2	901.7	885.9	858.8	848.7	861.0	900.5	992.0
17.5°	1184.9	1166.9	1119.5	958.1	865.6	854.3	835.1	855.4	925.4	978.4	1008.9
20°	1166.9	1145.5	1091.2	913.0	839.6	829.4	820.4	911.9	964.9	984.0	1001.0
22.5°	1145.5	1122.8	1052.9	881.4	812.5	804.6	810.2	943.5	964.9	978.4	993.1
25°	1117.2	1098.1	1007.8	856.5	791.1	782.0	803.5	940.1	952.4	955.9	985.2
27.5°	1091.2	1066.5	960.4	834.0	765.1	761.7	809.1	925.4	934.4	937.7	969.3
30°	1059.6	1022.4	907.3	810.2	738.1	736.9	810.2	907.3	905.0	914.1	945.7
32.5°	1026.9	957.0	847.5	780.9	712.1	711.0	802.4	880.3	878.0	890.4	914.1
35°	996.5	906.2	766.2	747.1	679.4	680.5	783.1	848.7	849.8	861.0	875.7
37.5°	964.9	862.2	677.1	709.9	647.8	647.8	757.2	819.3	817.1	820.4	840.7
40°	927.7	793.3	598.1	661.3	618.4	615.1	725.7	787.7	779.8	778.7	806.9
42.5°	888.1	717.7	539.5	597.0	584.6	580.0	687.2	749.3	734.6	738.1	774.2
45°	845.2	697.4	494.3	504.4	549.5	546.2	645.5	705.3	695.2	704.2	741.5
47.5°	802.4	656.8	479.6	418.7	512.3	511.2	599.3	662.5	656.8	665.8	705.3
50°	743.7	611.6	478.5	358.9	470.6	475.1	543.9	620.7	620.7	628.6	670.3
52.5°	668.1	556.4	434.5	325.0	422.0	435.6	495.4	584.6	586.8	594.7	632.0
55°	599.3	498.8	402.9	299.0	364.5	393.8	448.0	547.3	551.9	559.7	593.6
57.5°	536.1	415.3	396.1	268.6	311.5	339.7	406.2	511.2	513.5	520.2	553.0
60°	468.3	300.1	363.3	235.8	265.2	286.6	367.9	468.3	476.3	480.7	509.0
62.5°	391.6	217.8	329.5	213.3	242.7	247.2	336.3	427.7	437.8	441.2	458.2
65°	278.7	182.8	279.9	194.1	218.9	220.0	302.4	386.0	394.9	400.6	413.1
67.5°	188.4	149.0	213.3	176.0	200.9	202.0	269.7	337.4	349.9	354.4	362.2
70°	130.9	99.3	158.0	156.9	180.6	182.8	234.7	293.4	304.7	308.1	312.6
72.5°	95.9	80.1	130.9	141.1	159.1	161.3	198.6	243.8	255.0	258.5	260.7
75°	73.4	84.6	106.1	123.0	135.4	136.6	162.5	198.6	206.5	208.7	209.9
77.5°	58.7	79.0	77.9	99.3	110.6	108.3	127.5	153.5	160.2	160.2	160.2
80°	44.0	62.1	58.7	71.1	81.2	79.0	91.4	109.5	111.7	113.9	112.8
82.5°	32.7	39.5	39.5	45.1	54.2	51.9	60.9	71.1	71.1	71.1	73.4
85°	20.3	22.5	18.0	23.7	30.5	29.4	33.8	38.4	39.5	39.5	37.2
87.5°	12.4	10.2	5.6	9.1	13.6	13.6	15.8	16.9	15.8	15.8	15.8
90°	4.6	3.2	1.8	3.2	4.6	5.0	7.8	11.5	13.4	11.9	8.9
92.5°	31.0	19.0	7.0	19.0	31.0	34.0	47.7	66.1	75.3	66.0	47.4
95°	60.7	38.8	16.9	38.8	60.7	66.2	117.5	185.9	220.2	196.4	149.0
97.5°	67.8	48.5	29.2	48.5	67.8	72.7	158.3	272.5	329.5	314.6	284.6
100°	73.8	56.2	38.7	56.2	73.8	78.2	173.1	299.8	363.2	364.3	366.5
102.5°	79.5	63.2	46.8	63.2	79.5	83.6	180.0	308.4	372.7	391.8	430.0
105°	88.2	74.4	60.6	74.4	88.2	91.7	185.0	309.5	371.6	414.4	500.0
107.5°	100.4	87.5	74.7	87.5	100.4	103.7	185.9	295.7	350.5	410.2	529.6
110°	107.4	95.7	84.1	95.7	107.4	110.4	184.6	283.5	332.9	399.6	533.1



TEST NUMBER: P934431

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	115.6	104.5	93.4	104.5	115.6	118.5	184.6	272.8	316.9	385.2	521.8
115°	128.0	117.8	107.5	117.8	128.0	130.6	186.3	260.5	297.7	363.4	495.1
117.5°	140.1	130.8	121.5	130.8	140.1	142.4	189.8	252.9	284.5	343.9	462.6
120°	147.1	138.4	129.6	138.4	147.1	149.3	192.6	250.3	279.2	333.5	442.0
122.5°	155.2	146.4	137.5	146.4	155.2	157.4	196.6	249.0	275.1	324.0	421.8
125°	165.7	157.7	149.6	157.7	165.7	167.8	202.1	247.9	270.8	312.3	395.3
127.5°	175.8	167.7	159.5	167.7	175.8	177.8	207.6	247.3	267.1	302.7	373.9
130°	182.3	173.6	164.8	173.6	182.3	184.5	211.6	247.6	265.6	297.4	360.9
132.5°	187.7	179.0	170.2	179.0	187.7	190.0	214.8	247.9	264.4	292.8	349.6
135°	194.3	186.3	178.3	186.3	194.3	196.3	218.3	247.6	262.3	286.0	333.6
137.5°	202.4	194.5	186.6	194.5	202.4	204.4	223.6	249.1	262.0	282.0	322.3
140°	208.1	200.7	193.5	200.7	208.1	209.9	226.8	249.4	260.7	278.1	312.9
142.5°	212.2	205.5	198.8	205.5	212.2	213.9	229.5	250.3	260.7	276.0	306.5
145°	218.6	212.7	206.9	212.7	218.6	220.0	233.0	250.3	259.0	271.4	296.4
147.5°	226.3	220.7	215.0	220.7	226.3	227.8	238.2	252.1	259.0	268.8	288.4
150°	230.5	225.3	220.2	225.3	230.5	231.8	240.9	252.9	259.0	267.3	283.8
152.5°	233.5	229.6	225.7	229.6	233.5	234.5	242.7	253.5	259.0	266.1	280.2
155°	239.6	236.7	233.8	236.7	239.6	240.3	246.5	254.8	259.0	264.6	275.9
157.5°	245.4	242.6	239.8	242.6	245.4	246.1	250.3	256.1	259.0	263.3	272.1
160°	248.2	246.0	243.9	246.0	248.2	248.7	252.1	256.7	259.0	262.7	270.2
162.5°	251.1	249.5	247.9	249.5	251.1	251.5	254.0	257.3	259.0	262.1	268.5
165°	255.3	253.8	252.3	253.8	255.3	255.6	256.8	258.2	259.0	261.2	265.7
167.5°	257.7	257.0	256.3	257.0	257.7	257.9	258.8	260.1	260.7	262.2	265.2
170°	260.3	259.7	259.0	259.7	260.3	260.5	260.6	260.7	260.7	262.2	265.2
172.5°	260.7	260.5	260.3	260.5	260.7	260.7	260.7	260.7	260.7	261.9	264.2
175°	262.3	262.3	262.3	262.3	262.3	262.3	261.8	261.0	260.7	261.4	263.0
177.5°	262.3	262.3	262.3	262.3	262.3	262.3	261.9	261.4	261.1	261.7	262.9
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



TEST NUMBER: P934431

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1151.1	1147.7	1152.2	1139.7	1152.2	1147.7	1151.1	1159.0	1152.2	1156.7	1161.3
5°	1010.0	1004.4	986.3	971.7	986.3	1004.4	1010.0	1033.8	1045.0	1065.3	1092.4
7.5°	902.8	898.3	893.8	884.7	893.8	898.3	902.8	909.6	920.8	938.9	959.3
10°	879.1	880.3	887.0	885.9	887.0	880.3	879.1	876.8	873.4	876.8	889.2
12.5°	940.1	950.2	987.5	985.2	987.5	950.2	940.1	894.9	864.5	858.8	861.0
15°	1010.0	1013.4	1021.3	1022.4	1021.3	1013.4	1010.0	992.0	900.5	861.0	848.7
17.5°	1016.8	1017.9	1023.6	1023.6	1023.6	1017.9	1016.8	1008.9	978.4	925.4	855.4
20°	1011.1	1013.4	1024.7	1026.9	1024.7	1013.4	1011.1	1001.0	984.0	964.9	911.9
22.5°	1008.9	1013.4	1022.4	1021.3	1022.4	1013.4	1008.9	993.1	978.4	964.9	943.5
25°	997.6	997.6	998.7	999.8	998.7	997.6	997.6	985.2	955.9	952.4	940.1
27.5°	973.9	976.2	982.9	981.8	982.9	976.2	973.9	969.3	937.7	934.4	925.4
30°	952.4	950.2	944.6	940.1	944.6	950.2	952.4	945.7	914.1	905.0	907.3
32.5°	916.3	910.7	905.0	901.7	905.0	910.7	916.3	914.1	890.4	878.0	880.3
35°	873.4	874.6	873.4	870.1	873.4	874.6	873.4	875.7	861.0	849.8	848.7
37.5°	843.0	845.2	844.1	839.6	844.1	845.2	843.0	840.7	820.4	817.1	819.3
40°	811.4	812.5	811.4	808.0	811.4	812.5	811.4	806.9	778.7	779.8	787.7
42.5°	780.9	779.8	776.4	774.2	776.4	779.8	780.9	774.2	738.1	734.6	749.3
45°	745.9	747.1	740.3	736.9	740.3	747.1	745.9	741.5	704.2	695.2	705.3
47.5°	711.0	711.0	705.3	701.9	705.3	711.0	711.0	705.3	665.8	656.8	662.5
50°	673.7	672.6	664.7	663.6	664.7	672.6	673.7	670.3	628.6	620.7	620.7
52.5°	630.9	630.9	632.0	634.2	632.0	630.9	630.9	632.0	594.7	586.8	584.6
55°	593.6	594.7	602.6	604.9	602.6	594.7	593.6	593.6	559.7	551.9	547.3
57.5°	555.2	555.2	560.9	560.9	560.9	555.2	555.2	553.0	520.2	513.5	511.2
60°	511.2	513.5	517.9	516.8	517.9	513.5	511.2	509.0	480.7	476.3	468.3
62.5°	464.9	467.2	468.3	466.1	468.3	467.2	464.9	458.2	441.2	437.8	427.7
65°	416.4	418.7	419.8	417.6	419.8	418.7	416.4	413.1	400.6	394.9	386.0
67.5°	366.8	365.7	364.5	369.0	364.5	365.7	366.8	362.2	354.4	349.9	337.4
70°	315.9	315.9	314.8	317.1	314.8	315.9	315.9	312.6	308.1	304.7	293.4
72.5°	261.8	260.7	265.2	261.8	265.2	260.7	261.8	260.7	258.5	255.0	243.8
75°	208.7	211.1	208.7	212.2	208.7	211.1	208.7	209.9	208.7	206.5	198.6
77.5°	159.1	161.3	159.1	159.1	159.1	161.3	159.1	160.2	160.2	160.2	153.5
80°	112.8	111.7	111.7	110.6	111.7	111.7	112.8	112.8	113.9	111.7	109.5
82.5°	72.3	71.1	71.1	73.4	71.1	71.1	72.3	73.4	71.1	71.1	71.1
85°	39.5	40.7	38.4	38.4	38.4	40.7	39.5	37.2	39.5	39.5	38.4
87.5°	14.7	13.6	13.6	13.6	13.6	13.6	14.7	15.8	15.8	15.8	16.9
90°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.9	11.9	13.4	11.5
92.5°	33.5	32.1	26.8	21.4	26.8	32.1	33.5	47.4	66.0	75.3	66.1
95°	113.5	109.5	93.4	77.3	93.4	109.5	113.5	149.0	196.4	220.2	185.9
97.5°	262.1	254.4	223.8	193.1	223.8	254.4	262.1	284.6	314.6	329.5	272.5
100°	368.1	359.0	322.4	285.9	322.4	359.0	368.1	366.5	364.3	363.2	299.8
102.5°	458.6	450.7	419.5	388.2	419.5	450.7	458.6	430.0	391.8	372.7	308.4
105°	564.2	560.1	543.2	526.4	543.2	560.1	564.2	500.0	414.4	371.6	309.5
107.5°	619.2	620.2	624.2	628.3	624.2	620.2	619.2	529.6	410.2	350.5	295.7
110°	633.3	637.6	655.1	672.6	655.1	637.6	633.3	533.1	399.6	332.9	283.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	624.3	631.0	657.9	684.8	657.9	631.0	624.3	521.8	385.2	316.9	272.8
115°	593.8	603.1	640.4	677.8	640.4	603.1	593.8	495.1	363.4	297.7	260.5
117.5°	551.7	562.0	603.4	644.9	603.4	562.0	551.7	462.6	343.9	284.5	252.9
120°	523.4	533.5	573.6	613.9	573.6	533.5	523.4	442.0	333.5	279.2	250.3
122.5°	495.1	505.0	544.7	584.3	544.7	505.0	495.1	421.8	324.0	275.1	249.0
125°	457.6	466.7	503.2	539.7	503.2	466.7	457.6	395.3	312.3	270.8	247.9
127.5°	427.4	435.1	465.9	496.8	465.9	435.1	427.4	373.9	302.7	267.1	247.3
130°	408.4	415.5	444.1	472.5	444.1	415.5	408.4	360.9	297.4	265.6	247.6
132.5°	392.2	398.6	424.1	449.6	424.1	398.6	392.2	349.6	292.8	264.4	247.9
135°	369.3	374.8	396.8	418.8	396.8	374.8	369.3	333.6	286.0	262.3	247.6
137.5°	352.4	356.9	374.9	392.9	374.9	356.9	352.4	322.3	282.0	262.0	249.1
140°	338.9	343.1	359.9	376.8	359.9	343.1	338.9	312.9	278.1	260.7	249.4
142.5°	329.4	332.9	347.5	362.0	347.5	332.9	329.4	306.5	276.0	260.7	250.3
145°	315.1	317.8	328.8	339.8	328.8	317.8	315.1	296.4	271.4	259.0	250.3
147.5°	303.1	305.4	314.5	323.5	314.5	305.4	303.1	288.4	268.8	259.0	252.1
150°	296.3	298.2	305.5	312.9	305.5	298.2	296.3	283.8	267.3	259.0	252.9
152.5°	290.8	292.2	297.7	303.3	297.7	292.2	290.8	280.2	266.1	259.0	253.5
155°	284.3	285.3	289.0	292.6	289.0	285.3	284.3	275.9	264.6	259.0	254.8
157.5°	278.7	279.4	281.9	284.5	281.9	279.4	278.7	272.1	263.3	259.0	256.1
160°	275.9	276.2	277.8	279.2	277.8	276.2	275.9	270.2	262.7	259.0	256.7
162.5°	273.2	273.6	275.0	276.4	275.0	273.6	273.2	268.5	262.1	259.0	257.3
165°	269.1	269.5	271.0	272.6	271.0	269.5	269.1	265.7	261.2	259.0	258.2
167.5°	267.4	267.6	268.2	268.8	268.2	267.6	267.4	265.2	262.2	260.7	260.1
170°	267.4	267.4	267.4	267.4	267.4	267.4	267.4	265.2	262.2	260.7	260.7
172.5°	266.0	265.8	265.3	264.8	265.3	265.8	266.0	264.2	261.9	260.7	260.7
175°	264.1	264.1	264.1	264.1	264.1	264.1	264.1	263.0	261.4	260.7	261.0
177.5°	263.8	263.6	263.0	262.3	263.0	263.6	263.8	262.9	261.7	261.1	261.4
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1178.2	1183.8	1187.2	1191.7	1203.0
5°	1133.0	1154.4	1161.3	1178.2	1198.5
7.5°	1033.8	1099.2	1117.2	1157.9	1189.5
10°	937.7	1003.3	1034.9	1130.8	1178.2
12.5°	889.2	927.7	949.1	1083.4	1162.4
15°	858.8	885.9	901.7	1020.2	1144.3
17.5°	835.1	854.3	865.6	958.1	1119.5
20°	820.4	829.4	839.6	913.0	1091.2
22.5°	810.2	804.6	812.5	881.4	1052.9
25°	803.5	782.0	791.1	856.5	1007.8
27.5°	809.1	761.7	765.1	834.0	960.4
30°	810.2	736.9	738.1	810.2	907.3
32.5°	802.4	711.0	712.1	780.9	847.5
35°	783.1	680.5	679.4	747.1	766.2
37.5°	757.2	647.8	647.8	709.9	677.1
40°	725.7	615.1	618.4	661.3	598.1
42.5°	687.2	580.0	584.6	597.0	539.5
45°	645.5	546.2	549.5	504.4	494.3
47.5°	599.3	511.2	512.3	418.7	479.6
50°	543.9	475.1	470.6	358.9	478.5
52.5°	495.4	435.6	422.0	325.0	434.5
55°	448.0	393.8	364.5	299.0	402.9
57.5°	406.2	339.7	311.5	268.6	396.1
60°	367.9	286.6	265.2	235.8	363.3
62.5°	336.3	247.2	242.7	213.3	329.5
65°	302.4	220.0	218.9	194.1	279.9
67.5°	269.7	202.0	200.9	176.0	213.3
70°	234.7	182.8	180.6	156.9	158.0
72.5°	198.6	161.3	159.1	141.1	130.9
75°	162.5	136.6	135.4	123.0	106.1
77.5°	127.5	108.3	110.6	99.3	77.9
80°	91.4	79.0	81.2	71.1	58.7
82.5°	60.9	51.9	54.2	45.1	39.5
85°	33.8	29.4	30.5	23.7	18.0
87.5°	15.8	13.6	13.6	9.1	5.6
90°	7.8	5.0	4.6	3.2	1.8
92.5°	47.7	34.0	31.0	19.0	7.0
95°	117.5	66.2	60.7	38.8	16.9
97.5°	158.3	72.7	67.8	48.5	29.2
100°	173.1	78.2	73.8	56.2	38.7
102.5°	180.0	83.6	79.5	63.2	46.8
105°	185.0	91.7	88.2	74.4	60.6
107.5°	185.9	103.7	100.4	87.5	74.7
110°	184.6	110.4	107.4	95.7	84.1



TEST NUMBER: P934431

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	184.6	118.5	115.6	104.5	93.4
115°	186.3	130.6	128.0	117.8	107.5
117.5°	189.8	142.4	140.1	130.8	121.5
120°	192.6	149.3	147.1	138.4	129.6
122.5°	196.6	157.4	155.2	146.4	137.5
125°	202.1	167.8	165.7	157.7	149.6
127.5°	207.6	177.8	175.8	167.7	159.5
130°	211.6	184.5	182.3	173.6	164.8
132.5°	214.8	190.0	187.7	179.0	170.2
135°	218.3	196.3	194.3	186.3	178.3
137.5°	223.6	204.4	202.4	194.5	186.6
140°	226.8	209.9	208.1	200.7	193.5
142.5°	229.5	213.9	212.2	205.5	198.8
145°	233.0	220.0	218.6	212.7	206.9
147.5°	238.2	227.8	226.3	220.7	215.0
150°	240.9	231.8	230.5	225.3	220.2
152.5°	242.7	234.5	233.5	229.6	225.7
155°	246.5	240.3	239.6	236.7	233.8
157.5°	250.3	246.1	245.4	242.6	239.8
160°	252.1	248.7	248.2	246.0	243.9
162.5°	254.0	251.5	251.1	249.5	247.9
165°	256.8	255.6	255.3	253.8	252.3
167.5°	258.8	257.9	257.7	257.0	256.3
170°	260.6	260.5	260.3	259.7	259.0
172.5°	260.7	260.7	260.7	260.5	260.3
175°	261.8	262.3	262.3	262.3	262.3
177.5°	261.9	262.3	262.3	262.3	262.3
180°	262.3	262.3	262.3	262.3	262.3



TEST NUMBER: P934431

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**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	14.39	15.40	15.21	16.24	17.29	17.19	18.19	18.01	19.04	20.09
	3H	14.88	15.78	15.71	16.64	17.71	18.53	19.44	19.37	20.29	21.37
	4H	15.08	15.93	15.93	16.79	17.88	18.98	19.83	19.83	20.69	21.78
	6H	15.20	15.99	16.07	16.86	17.96	19.26	20.05	20.13	20.92	22.02
	8H	15.21	15.96	16.08	16.85	17.94	19.34	20.09	20.21	20.97	22.07
	12H	15.18	15.90	16.06	16.78	17.91	19.38	20.09	20.25	20.97	22.10
4H	2H	15.43	16.29	16.29	17.15	18.23	17.62	18.47	18.47	19.33	20.42
	3H	16.47	17.18	17.34	18.08	19.18	19.13	19.84	19.99	20.73	21.83
	4H	16.75	17.40	17.63	18.29	19.42	19.65	20.30	20.53	21.19	22.32
	6H	16.89	17.45	17.78	18.36	19.49	20.02	20.58	20.91	21.49	22.62
	8H	16.90	17.42	17.80	18.33	19.47	20.12	20.65	21.02	21.56	22.70
	12H	16.87	17.34	17.79	18.27	19.42	20.18	20.65	21.10	21.58	22.73
8H	4H	17.22	17.74	18.11	18.65	19.79	19.79	20.31	20.69	21.22	22.37
	6H	17.48	17.92	18.41	18.87	20.01	20.22	20.66	21.15	21.61	22.75
	8H	17.53	17.91	18.46	18.85	20.01	20.37	20.76	21.31	21.70	22.86
	12H	17.52	17.86	18.46	18.79	20.00	20.47	20.81	21.41	21.75	22.96
12H	4H	17.23	17.70	18.14	18.63	19.78	19.76	20.23	20.68	21.16	22.31
	6H	17.54	17.93	18.48	18.87	20.03	20.22	20.61	21.16	21.55	22.71
	8H	17.62	17.95	18.55	18.89	20.10	20.39	20.72	21.32	21.66	22.87