

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: P934266

Luminaire Tested: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

**Test Information**

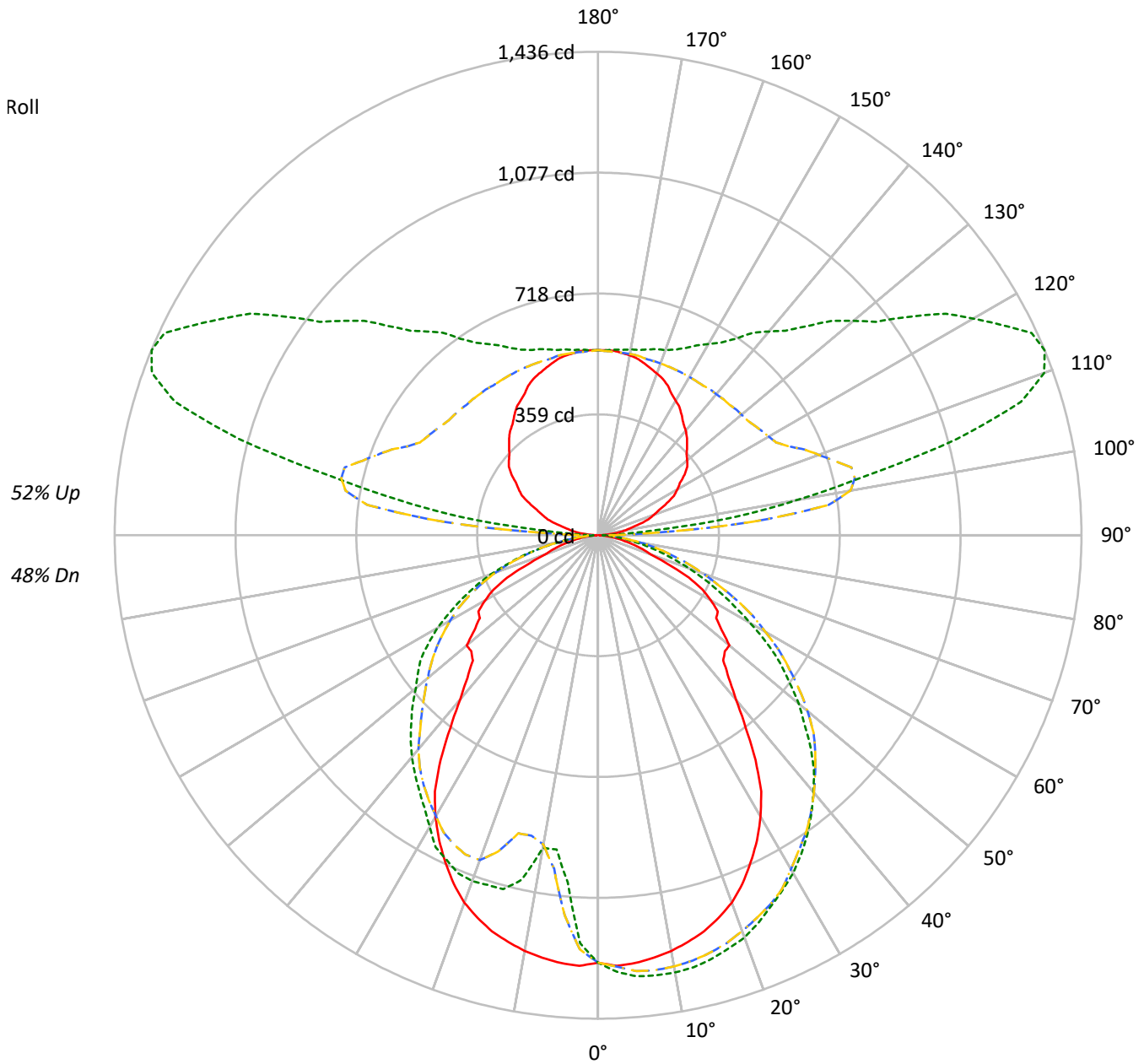
Test Method: LM-79-2019  
Report Number: P934266  
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6858.1 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 56.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P934266  
CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3500K

### 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°	5890	5890	5890	5890
5°	5933	5945	5933	4675
10°	5893	5856	5893	4187
15°	5829	5729	5829	4784
20°	5707	5579	5707	4794
25°	5458	5360	5458	4692
30°	5135	5178	5135	4469
35°	4578	4947	4578	4224
40°	3815	4676	3815	4039
45°	3409	4359	3409	3826
50°	3621	3981	3621	3612
55°	3407	3573	3407	3488
60°	3512	3035	3512	3195
65°	3184	2509	3184	2804
70°	2205	1999	2205	2350
75°	1934	1478	1934	1770
80°	1557	977	1557	1063
85°	894	518	894	440

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5224 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	1.7
10°-20°	325.3	4.7
20°-30°	502.9	7.3
30°-40°	600.3	8.8
40°-50°	603.9	8.8
50°-60°	525.4	7.7
60°-70°	372.5	5.4
70°-80°	197.1	2.9
80°-90°	51.2	0.7
90°-100°	268.0	3.9
100°-110°	704.7	10.3
110°-120°	730.7	10.7
120°-130°	586.1	8.5
130°-140°	459.9	6.7
140°-150°	353.0	5.1
150°-160°	254.2	3.7
160°-170°	155.5	2.3
170°-180°	52.6	0.8
0°-30°	942.8	13.7
0°-40°	1543.1	22.5
0°-60°	2672.4	39.0
0°-90°	3293.3	48.0
90°-120°	1703.5	24.8
90°-150°	3102.5	45.2
90°-180°	3565.0	52.0
0°-180°	6858.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1269	1269	1269	1269	1269	
5°	1275	1315	1275	1034	1275	121
15°	1218	1303	1218	1088	1218	343
25°	1072	1215	1072	1064	1072	492
35°	815	1084	815	926	815	504
45°	526	893	526	784	526	421
55°	429	659	429	644	429	394
65°	298	398	298	444	298	285
75°	113	189	113	226	113	119
85°	19	48	19	41	19	26
90°	4	14	4	14	4	4
95°	36	162	36	162	36	39
105°	127	1104	127	1104	127	135
115°	226	1421	226	1421	226	223
125°	314	1132	314	1132	314	279
135°	374	878	374	878	374	289
145°	434	712	434	712	434	272
155°	490	613	490	613	490	225
165°	529	571	529	571	529	149
175°	550	554	550	554	550	52
180°	550	550	550	550	550	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1280.1	1280.1	1287.4	1289.8	1289.8	1286.1	1282.5	1286.1	1296.9	1300.5	1299.4
5°	1275.4	1285.0	1298.2	1300.5	1302.9	1301.8	1299.4	1301.8	1313.8	1316.2	1317.4
7.5°	1265.7	1283.8	1300.5	1304.2	1307.8	1304.2	1302.9	1305.4	1317.4	1319.8	1319.8
10°	1253.7	1279.0	1298.2	1300.5	1304.2	1300.5	1300.5	1305.4	1317.4	1319.8	1320.9
12.5°	1236.9	1271.7	1289.8	1292.1	1296.9	1295.8	1294.5	1299.4	1311.4	1313.8	1313.8
15°	1217.7	1258.5	1275.4	1277.7	1286.1	1283.8	1283.8	1288.5	1301.8	1305.4	1304.2
17.5°	1191.3	1241.7	1261.0	1264.5	1270.5	1269.4	1270.5	1275.4	1287.4	1289.8	1291.0
20°	1161.2	1218.9	1241.7	1245.3	1251.3	1251.3	1251.3	1257.3	1269.4	1274.1	1274.1
22.5°	1120.4	1194.9	1218.9	1221.3	1228.5	1228.5	1230.9	1239.3	1250.1	1251.3	1251.3
25°	1072.4	1168.5	1188.9	1196.0	1203.3	1206.9	1210.5	1215.3	1218.9	1217.7	1218.9
27.5°	1022.0	1134.8	1161.2	1166.1	1175.6	1179.3	1184.1	1185.3	1186.5	1190.0	1187.7
30°	965.5	1088.0	1127.6	1132.5	1148.1	1150.5	1145.6	1148.1	1154.1	1156.5	1158.9
32.5°	901.8	1018.3	1092.8	1103.7	1118.1	1110.8	1109.6	1113.2	1122.8	1122.8	1125.2
35°	815.4	964.3	1060.4	1070.0	1080.8	1072.4	1077.2	1078.4	1084.4	1088.0	1086.8
37.5°	720.5	917.5	1026.7	1034.0	1042.4	1031.6	1038.7	1042.4	1047.2	1044.7	1044.7
40°	636.5	844.2	987.2	991.9	999.2	990.8	997.9	1000.3	1002.7	1000.3	999.2
42.5°	574.0	763.8	945.1	951.1	946.3	952.3	954.7	959.5	955.9	951.1	951.1
45°	526.0	742.1	899.4	906.7	899.4	909.1	912.7	912.7	901.8	899.4	898.3
47.5°	510.4	698.9	853.9	853.9	850.2	862.3	868.3	859.9	849.0	845.4	845.4
50°	509.2	650.9	791.4	786.6	803.4	817.8	811.8	803.4	794.9	781.8	781.8
52.5°	462.3	592.1	711.0	729.0	755.4	763.8	754.1	745.8	731.4	725.3	720.5
55°	428.7	530.8	637.6	673.7	701.3	712.1	694.1	685.7	664.1	660.5	658.1
57.5°	421.5	441.9	570.4	616.1	649.6	648.5	637.6	622.1	604.1	600.5	599.2
60°	386.7	319.4	498.3	552.4	587.2	583.7	574.0	559.6	542.8	540.4	538.0
62.5°	350.7	231.8	416.7	477.9	527.2	526.0	517.6	496.0	483.9	477.9	473.2
65°	297.8	194.6	296.6	397.5	468.3	470.8	452.8	437.1	423.9	416.7	415.5
67.5°	227.0	158.6	200.5	331.4	411.9	409.5	386.7	379.5	362.7	359.1	351.9
70°	168.1	105.6	139.3	269.0	356.7	350.7	332.6	324.3	308.6	300.2	295.5
72.5°	139.3	85.2	102.1	209.0	300.2	293.0	277.4	267.8	254.6	247.4	242.5
75°	112.9	90.1	78.1	154.9	243.8	239.0	224.5	215.0	204.1	194.6	195.7
77.5°	82.9	84.1	62.4	114.1	193.4	186.1	177.7	165.7	160.9	151.3	151.3
80°	62.4	66.1	46.8	78.1	139.3	139.3	132.1	123.7	115.3	110.5	110.5
82.5°	42.0	42.0	34.8	49.2	94.9	91.2	86.5	84.1	79.2	76.8	76.8
85°	19.2	24.0	21.6	30.0	51.7	54.1	54.1	51.7	50.4	48.1	49.2
87.5°	6.0	10.8	13.3	16.8	26.4	27.7	28.8	28.8	28.8	30.0	30.0
90°	3.7	6.6	9.6	10.3	16.2	24.1	28.0	24.9	18.7	14.1	14.1
92.5°	14.8	39.8	65.0	71.3	100.2	138.7	157.9	138.4	99.4	70.1	67.3
95°	35.5	81.4	127.3	138.8	246.4	389.9	461.7	412.0	312.6	238.1	229.6
97.5°	61.2	101.7	142.3	152.4	331.9	571.2	690.9	659.5	596.6	549.5	533.4
100°	81.2	117.9	154.6	163.8	363.0	628.6	761.4	763.7	768.3	771.7	752.5
102.5°	98.2	132.5	166.7	175.3	377.3	646.7	781.3	821.4	901.4	961.4	945.0
105°	127.0	156.0	185.1	192.3	387.9	648.7	779.1	868.8	1048.3	1182.9	1174.0
107.5°	156.5	183.5	210.6	217.4	389.8	619.8	734.8	859.9	1110.3	1298.0	1300.2
110°	176.4	200.8	225.4	231.4	387.0	594.2	697.9	837.8	1117.6	1327.5	1336.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	196.0	219.3	242.5	248.4	387.0	571.9	664.3	807.5	1093.9	1308.7	1322.8
115°	225.5	247.0	268.5	273.9	390.6	546.3	624.1	762.1	1037.9	1244.8	1264.4
117.5°	254.6	274.1	293.7	298.6	397.9	530.2	596.4	720.9	969.9	1156.7	1178.3
120°	271.6	290.0	308.4	313.0	403.8	524.8	585.4	699.1	926.6	1097.2	1118.2
122.5°	288.2	306.7	325.3	329.9	412.2	522.0	576.8	679.3	884.2	1037.8	1058.6
125°	313.7	330.5	347.5	351.7	423.7	519.6	567.6	654.7	828.7	959.2	978.4
127.5°	334.4	351.4	368.4	372.7	435.1	518.3	559.8	634.6	784.0	896.1	912.2
130°	345.4	363.8	382.2	386.8	443.4	519.1	556.9	623.4	756.4	856.2	871.1
132.5°	356.9	375.2	393.7	398.2	450.3	519.6	554.4	613.9	733.0	822.3	835.6
135°	373.9	390.6	407.3	411.5	457.6	519.1	549.9	599.8	699.5	774.3	785.8
137.5°	391.3	407.8	424.4	428.5	468.7	522.3	549.2	591.4	675.7	738.9	748.3
140°	405.6	420.9	436.1	440.0	475.5	522.9	546.6	583.0	655.8	710.4	719.2
142.5°	416.7	430.7	444.9	448.4	481.1	524.7	546.6	578.6	642.6	690.6	698.2
145°	433.7	446.0	458.3	461.4	488.6	524.8	542.9	569.1	621.4	660.7	666.4
147.5°	450.6	462.6	474.6	477.6	499.3	528.4	542.9	563.5	604.6	635.5	640.2
150°	461.7	472.5	483.4	486.1	505.0	530.3	542.9	560.3	595.1	621.2	625.0
152.5°	473.2	481.4	489.6	491.6	508.7	531.5	542.9	557.8	587.4	609.7	612.7
155°	490.1	496.2	502.3	503.8	516.9	534.2	542.9	554.7	578.3	596.0	598.0
157.5°	502.6	508.5	514.4	516.0	524.9	536.9	542.9	552.0	570.4	584.2	585.5
160°	511.1	515.8	520.4	521.5	528.7	538.2	542.9	550.8	566.5	578.3	579.1
162.5°	519.6	523.1	526.5	527.4	532.6	539.5	542.9	549.5	562.9	572.8	573.5
165°	528.9	532.0	535.0	535.8	538.2	541.3	542.9	547.7	557.2	564.3	565.1
167.5°	537.4	538.8	540.3	540.7	542.6	545.2	546.6	549.7	556.0	560.6	561.0
170°	542.9	544.3	545.9	546.2	546.3	546.5	546.6	549.7	556.0	560.6	560.6
172.5°	545.9	546.2	546.5	546.6	546.6	546.6	546.6	549.1	554.0	557.7	557.4
175°	549.9	549.9	549.9	549.9	548.8	547.3	546.6	548.1	551.2	553.6	553.6
177.5°	549.9	549.9	549.9	549.9	549.0	547.8	547.3	548.6	551.0	552.9	552.5
180°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1301.8	1298.2	1301.8	1299.4	1300.5	1296.9	1286.1	1282.5	1286.1	1289.8	1289.8
5°	1317.4	1314.9	1317.4	1317.4	1316.2	1313.8	1301.8	1299.4	1301.8	1302.9	1300.5
7.5°	1322.2	1318.6	1322.2	1319.8	1319.8	1317.4	1305.4	1302.9	1304.2	1307.8	1304.2
10°	1322.2	1318.6	1322.2	1320.9	1319.8	1317.4	1305.4	1300.5	1300.5	1304.2	1300.5
12.5°	1316.2	1313.8	1316.2	1313.8	1313.8	1311.4	1299.4	1294.5	1295.8	1296.9	1292.1
15°	1306.5	1302.9	1306.5	1304.2	1305.4	1301.8	1288.5	1283.8	1283.8	1286.1	1277.7
17.5°	1292.1	1287.4	1292.1	1291.0	1289.8	1287.4	1275.4	1270.5	1269.4	1270.5	1264.5
20°	1275.4	1271.7	1275.4	1274.1	1274.1	1269.4	1257.3	1251.3	1251.3	1251.3	1245.3
22.5°	1249.0	1245.3	1249.0	1251.3	1251.3	1250.1	1239.3	1230.9	1228.5	1228.5	1221.3
25°	1218.9	1215.3	1218.9	1218.9	1217.7	1218.9	1215.3	1210.5	1206.9	1203.3	1196.0
27.5°	1190.0	1187.7	1190.0	1187.7	1190.0	1186.5	1185.3	1184.1	1179.3	1175.6	1166.1
30°	1161.2	1158.9	1161.2	1158.9	1156.5	1154.1	1148.1	1145.6	1150.5	1148.1	1132.5
32.5°	1125.2	1122.8	1125.2	1125.2	1122.8	1122.8	1113.2	1109.6	1110.8	1118.1	1103.7
35°	1088.0	1084.4	1088.0	1086.8	1088.0	1084.4	1078.4	1077.2	1072.4	1080.8	1070.0
37.5°	1044.7	1041.2	1044.7	1044.7	1044.7	1047.2	1042.4	1038.7	1031.6	1042.4	1034.0
40°	1000.3	995.5	1000.3	999.2	1000.3	1002.7	1000.3	997.9	990.8	999.2	991.9
42.5°	949.9	948.7	949.9	951.1	951.1	955.9	959.5	954.7	952.3	946.3	951.1
45°	895.8	893.4	895.8	898.3	899.4	901.8	912.7	912.7	909.1	899.4	906.7
47.5°	838.2	832.2	838.2	845.4	845.4	849.0	859.9	868.3	862.3	850.2	853.9
50°	777.0	778.2	777.0	781.8	781.8	794.9	803.4	811.8	817.8	803.4	786.6
52.5°	717.0	715.7	717.0	720.5	725.3	731.4	745.8	754.1	763.8	755.4	729.0
55°	656.9	659.3	656.9	658.1	660.5	664.1	685.7	694.1	712.1	701.3	673.7
57.5°	596.8	593.2	596.8	599.2	600.5	604.1	622.1	637.6	648.5	649.6	616.1
60°	527.2	522.4	527.2	538.0	540.4	542.8	559.6	574.0	583.7	587.2	552.4
62.5°	465.9	457.5	465.9	473.2	477.9	483.9	496.0	517.6	526.0	527.2	477.9
65°	401.1	397.5	401.1	415.5	416.7	423.9	437.1	452.8	470.8	468.3	397.5
67.5°	342.3	342.3	342.3	351.9	359.1	362.7	379.5	386.7	409.5	411.9	331.4
70°	288.2	287.0	288.2	295.5	300.2	308.6	324.3	332.6	350.7	356.7	269.0
72.5°	236.5	235.4	236.5	242.5	247.4	254.6	267.8	277.4	293.0	300.2	209.0
75°	191.0	188.6	191.0	195.7	194.6	204.1	215.0	224.5	239.0	243.8	154.9
77.5°	146.5	146.5	146.5	151.3	151.3	160.9	165.7	177.7	186.1	193.4	114.1
80°	109.3	108.1	109.3	110.5	110.5	115.3	123.7	132.1	139.3	139.3	78.1
82.5°	76.8	74.5	76.8	76.8	76.8	79.2	84.1	86.5	91.2	94.9	49.2
85°	48.1	48.1	48.1	49.2	48.1	50.4	51.7	54.1	54.1	51.7	30.0
87.5°	31.2	30.0	31.2	30.0	30.0	28.8	28.8	28.8	27.7	26.4	16.8
90°	14.1	14.1	14.1	14.1	14.1	18.7	24.9	28.0	24.1	16.2	10.3
92.5°	56.1	45.0	56.1	67.3	70.1	99.4	138.4	157.9	138.7	100.2	71.3
95°	195.8	162.1	195.8	229.6	238.1	312.6	412.0	461.7	389.9	246.4	138.8
97.5°	469.1	404.9	469.1	533.4	549.5	596.6	659.5	690.9	571.2	331.9	152.4
100°	676.0	599.3	676.0	752.5	771.7	768.3	763.7	761.4	628.6	363.0	163.8
102.5°	879.4	813.7	879.4	945.0	961.4	901.4	821.4	781.3	646.7	377.3	175.3
105°	1138.7	1103.5	1138.7	1174.0	1182.9	1048.3	868.8	779.1	648.7	387.9	192.3
107.5°	1308.7	1317.2	1308.7	1300.2	1298.0	1110.3	859.9	734.8	619.8	389.8	217.4
110°	1373.4	1410.2	1373.4	1336.7	1327.5	1117.6	837.8	697.9	594.2	387.0	231.4





TEST NUMBER: P934266

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1379.2	1435.6	1379.2	1322.8	1308.7	1093.9	807.5	664.3	571.9	387.0	248.4
115°	1342.6	1420.9	1342.6	1264.4	1244.8	1037.9	762.1	624.1	546.3	390.6	273.9
117.5°	1265.2	1351.9	1265.2	1178.3	1156.7	969.9	720.9	596.4	530.2	397.9	298.6
120°	1202.6	1286.9	1202.6	1118.2	1097.2	926.6	699.1	585.4	524.8	403.8	313.0
122.5°	1141.8	1225.0	1141.8	1058.6	1037.8	884.2	679.3	576.8	522.0	412.2	329.9
125°	1054.9	1131.6	1054.9	978.4	959.2	828.7	654.7	567.6	519.6	423.7	351.7
127.5°	976.9	1041.5	976.9	912.2	896.1	784.0	634.6	559.8	518.3	435.1	372.7
130°	930.9	990.6	930.9	871.1	856.2	756.4	623.4	556.9	519.1	443.4	386.8
132.5°	889.1	942.6	889.1	835.6	822.3	733.0	613.9	554.4	519.6	450.3	398.2
135°	831.9	878.0	831.9	785.8	774.3	699.5	599.8	549.9	519.1	457.6	411.5
137.5°	786.1	823.8	786.1	748.3	738.9	675.7	591.4	549.2	522.3	468.7	428.5
140°	754.5	789.8	754.5	719.2	710.4	655.8	583.0	546.6	522.9	475.5	440.0
142.5°	728.4	758.8	728.4	698.2	690.6	642.6	578.6	546.6	524.7	481.1	448.4
145°	689.4	712.3	689.4	666.4	660.7	621.4	569.1	542.9	524.8	488.6	461.4
147.5°	659.3	678.4	659.3	640.2	635.5	604.6	563.5	542.9	528.4	499.3	477.6
150°	640.4	655.8	640.4	625.0	621.2	595.1	560.3	542.9	530.3	505.0	486.1
152.5°	624.3	635.9	624.3	612.7	609.7	587.4	557.8	542.9	531.5	508.7	491.6
155°	605.7	613.4	605.7	598.0	596.0	578.3	554.7	542.9	534.2	516.9	503.8
157.5°	591.0	596.4	591.0	585.5	584.2	570.4	552.0	542.9	536.9	524.9	516.0
160°	582.2	585.4	582.2	579.1	578.3	566.5	550.8	542.9	538.2	528.7	521.5
162.5°	576.5	579.4	576.5	573.5	572.8	562.9	549.5	542.9	539.5	532.6	527.4
165°	568.2	571.3	568.2	565.1	564.3	557.2	547.7	542.9	541.3	538.2	535.8
167.5°	562.3	563.6	562.3	561.0	560.6	556.0	549.7	546.6	545.2	542.6	540.7
170°	560.6	560.6	560.6	560.6	560.6	556.0	549.7	546.6	546.5	546.3	546.2
172.5°	556.3	555.1	556.3	557.4	557.7	554.0	549.1	546.6	546.6	546.6	546.6
175°	553.6	553.6	553.6	553.6	553.6	551.2	548.1	546.6	547.3	548.8	549.9
177.5°	551.2	549.9	551.2	552.5	552.9	551.0	548.6	547.3	547.8	549.0	549.9
180°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9



TEST NUMBER: P934266

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1287.4	1280.1	1280.1	1268.1	1263.4	1259.7	1253.7	1235.7	1230.9	1226.1	1233.3
5°	1298.2	1285.0	1275.4	1253.7	1235.7	1228.5	1205.7	1162.5	1133.6	1112.0	1100.0
7.5°	1300.5	1283.8	1265.7	1232.1	1188.9	1169.6	1100.0	1020.7	999.2	979.9	967.9
10°	1298.2	1279.0	1253.7	1203.3	1101.2	1067.6	997.9	946.3	933.1	929.5	933.1
12.5°	1289.8	1271.7	1236.9	1152.9	1009.9	987.2	946.3	916.3	913.8	919.8	952.3
15°	1275.4	1258.5	1217.7	1085.6	959.5	942.7	913.8	903.1	916.3	958.3	1055.6
17.5°	1261.0	1241.7	1191.3	1019.6	921.1	909.1	888.7	910.3	984.8	1041.2	1073.6
20°	1241.7	1218.9	1161.2	971.5	893.4	882.7	873.0	970.3	1026.7	1047.2	1065.2
22.5°	1218.9	1194.9	1120.4	937.9	864.6	856.3	862.3	1003.9	1026.7	1041.2	1056.7
25°	1188.9	1168.5	1072.4	911.5	841.9	832.2	855.0	1000.3	1013.6	1017.2	1048.4
27.5°	1161.2	1134.8	1022.0	887.4	814.2	810.6	861.0	984.8	994.3	997.9	1031.6
30°	1127.6	1088.0	965.5	862.3	785.4	784.2	862.3	965.5	963.1	972.8	1006.3
32.5°	1092.8	1018.3	901.8	831.0	757.8	756.5	853.9	936.7	934.3	947.5	972.8
35°	1060.4	964.3	815.4	794.9	723.0	724.1	833.4	903.1	904.3	916.3	931.9
37.5°	1026.7	917.5	720.5	755.4	689.3	689.3	805.8	871.9	869.4	873.0	894.7
40°	987.2	844.2	636.5	703.7	658.1	654.5	772.2	838.2	829.8	828.6	858.6
42.5°	945.1	763.8	574.0	635.3	622.1	617.2	731.4	797.4	781.8	785.4	823.8
45°	899.4	742.1	526.0	536.8	584.8	581.2	686.9	750.5	739.7	749.4	788.9
47.5°	853.9	698.9	510.4	445.5	545.2	544.0	637.6	704.9	698.9	708.5	750.5
50°	791.4	650.9	509.2	381.9	500.7	505.6	578.8	660.5	660.5	668.9	713.3
52.5°	711.0	592.1	462.3	345.9	449.1	463.5	527.2	622.1	624.5	632.9	672.5
55°	637.6	530.8	428.7	318.2	387.8	419.1	476.8	582.4	587.2	595.7	631.6
57.5°	570.4	441.9	421.5	285.8	331.4	361.4	432.3	544.0	546.4	553.6	588.4
60°	498.3	319.4	386.7	251.0	282.2	305.0	391.5	498.3	506.7	511.6	541.6
62.5°	416.7	231.8	350.7	227.0	258.2	263.0	357.9	455.2	465.9	469.6	487.6
65°	296.6	194.6	297.8	206.5	233.0	234.2	321.9	410.7	420.3	426.3	439.5
67.5°	200.5	158.6	227.0	187.3	213.8	215.0	287.0	359.1	372.3	377.1	385.5
70°	139.3	105.6	168.1	166.9	192.1	194.6	249.8	312.2	324.3	327.9	332.6
72.5°	102.1	85.2	139.3	150.1	169.3	171.7	211.4	259.4	271.4	275.0	277.4
75°	78.1	90.1	112.9	130.9	144.1	145.3	172.9	211.4	219.8	222.1	223.4
77.5°	62.4	84.1	82.9	105.6	117.6	115.3	135.7	163.3	170.6	170.6	170.6
80°	46.8	66.1	62.4	75.7	86.5	84.1	97.2	116.5	118.9	121.3	120.1
82.5°	34.8	42.0	42.0	48.1	57.7	55.2	64.8	75.7	75.7	75.7	78.1
85°	21.6	24.0	19.2	25.2	32.4	31.2	36.0	40.8	42.0	42.0	39.7
87.5°	13.3	10.8	6.0	9.6	14.4	14.4	16.8	18.0	16.8	16.8	16.8
90°	9.6	6.6	3.7	6.6	9.6	10.3	16.2	24.1	28.0	24.9	18.7
92.5°	65.0	39.8	14.8	39.8	65.0	71.3	100.2	138.7	157.9	138.4	99.4
95°	127.3	81.4	35.5	81.4	127.3	138.8	246.4	389.9	461.7	412.0	312.6
97.5°	142.3	101.7	61.2	101.7	142.3	152.4	331.9	571.2	690.9	659.5	596.6
100°	154.6	117.9	81.2	117.9	154.6	163.8	363.0	628.6	761.4	763.7	768.3
102.5°	166.7	132.5	98.2	132.5	166.7	175.3	377.3	646.7	781.3	821.4	901.4
105°	185.1	156.0	127.0	156.0	185.1	192.3	387.9	648.7	779.1	868.8	1048.3
107.5°	210.6	183.5	156.5	183.5	210.6	217.4	389.8	619.8	734.8	859.9	1110.3
110°	225.4	200.8	176.4	200.8	225.4	231.4	387.0	594.2	697.9	837.8	1117.6



TEST NUMBER: P934266

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	242.5	219.3	196.0	219.3	242.5	248.4	387.0	571.9	664.3	807.5	1093.9
115°	268.5	247.0	225.5	247.0	268.5	273.9	390.6	546.3	624.1	762.1	1037.9
117.5°	293.7	274.1	254.6	274.1	293.7	298.6	397.9	530.2	596.4	720.9	969.9
120°	308.4	290.0	271.6	290.0	308.4	313.0	403.8	524.8	585.4	699.1	926.6
122.5°	325.3	306.7	288.2	306.7	325.3	329.9	412.2	522.0	576.8	679.3	884.2
125°	347.5	330.5	313.7	330.5	347.5	351.7	423.7	519.6	567.6	654.7	828.7
127.5°	368.4	351.4	334.4	351.4	368.4	372.7	435.1	518.3	559.8	634.6	784.0
130°	382.2	363.8	345.4	363.8	382.2	386.8	443.4	519.1	556.9	623.4	756.4
132.5°	393.7	375.2	356.9	375.2	393.7	398.2	450.3	519.6	554.4	613.9	733.0
135°	407.3	390.6	373.9	390.6	407.3	411.5	457.6	519.1	549.9	599.8	699.5
137.5°	424.4	407.8	391.3	407.8	424.4	428.5	468.7	522.3	549.2	591.4	675.7
140°	436.1	420.9	405.6	420.9	436.1	440.0	475.5	522.9	546.6	583.0	655.8
142.5°	444.9	430.7	416.7	430.7	444.9	448.4	481.1	524.7	546.6	578.6	642.6
145°	458.3	446.0	433.7	446.0	458.3	461.4	488.6	524.8	542.9	569.1	621.4
147.5°	474.6	462.6	450.6	462.6	474.6	477.6	499.3	528.4	542.9	563.5	604.6
150°	483.4	472.5	461.7	472.5	483.4	486.1	505.0	530.3	542.9	560.3	595.1
152.5°	489.6	481.4	473.2	481.4	489.6	491.6	508.7	531.5	542.9	557.8	587.4
155°	502.3	496.2	490.1	496.2	502.3	503.8	516.9	534.2	542.9	554.7	578.3
157.5°	514.4	508.5	502.6	508.5	514.4	516.0	524.9	536.9	542.9	552.0	570.4
160°	520.4	515.8	511.1	515.8	520.4	521.5	528.7	538.2	542.9	550.8	566.5
162.5°	526.5	523.1	519.6	523.1	526.5	527.4	532.6	539.5	542.9	549.5	562.9
165°	535.0	532.0	528.9	532.0	535.0	535.8	538.2	541.3	542.9	547.7	557.2
167.5°	540.3	538.8	537.4	538.8	540.3	540.7	542.6	545.2	546.6	549.7	556.0
170°	545.9	544.3	542.9	544.3	545.9	546.2	546.3	546.5	546.6	549.7	556.0
172.5°	546.5	546.2	545.9	546.2	546.5	546.6	546.6	546.6	546.6	549.1	554.0
175°	549.9	549.9	549.9	549.9	549.9	549.9	548.8	547.3	546.6	548.1	551.2
177.5°	549.9	549.9	549.9	549.9	549.9	549.9	549.0	547.8	547.3	548.6	551.0
180°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9



TEST NUMBER: P934266

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1224.9	1221.3	1226.1	1212.9	1226.1	1221.3	1224.9	1233.3	1226.1	1230.9	1235.7
5°	1074.8	1068.8	1049.6	1034.0	1049.6	1068.8	1074.8	1100.0	1112.0	1133.6	1162.5
7.5°	960.7	955.9	951.1	941.5	951.1	955.9	960.7	967.9	979.9	999.2	1020.7
10°	935.5	936.7	943.9	942.7	943.9	936.7	935.5	933.1	929.5	933.1	946.3
12.5°	1000.3	1011.2	1050.7	1048.4	1050.7	1011.2	1000.3	952.3	919.8	913.8	916.3
15°	1074.8	1078.4	1086.8	1088.0	1086.8	1078.4	1074.8	1055.6	958.3	916.3	903.1
17.5°	1082.0	1083.2	1089.2	1089.2	1089.2	1083.2	1082.0	1073.6	1041.2	984.8	910.3
20°	1076.0	1078.4	1090.4	1092.8	1090.4	1078.4	1076.0	1065.2	1047.2	1026.7	970.3
22.5°	1073.6	1078.4	1088.0	1086.8	1088.0	1078.4	1073.6	1056.7	1041.2	1026.7	1003.9
25°	1061.6	1061.6	1062.8	1064.0	1062.8	1061.6	1061.6	1048.4	1017.2	1013.6	1000.3
27.5°	1036.3	1038.7	1046.0	1044.7	1046.0	1038.7	1036.3	1031.6	997.9	994.3	984.8
30°	1013.6	1011.2	1005.2	1000.3	1005.2	1011.2	1013.6	1006.3	972.8	963.1	965.5
32.5°	975.1	969.1	963.1	959.5	963.1	969.1	975.1	972.8	947.5	934.3	936.7
35°	929.5	930.7	929.5	925.8	929.5	930.7	929.5	931.9	916.3	904.3	903.1
37.5°	897.1	899.4	898.3	893.4	898.3	899.4	897.1	894.7	873.0	869.4	871.9
40°	863.4	864.6	863.4	859.9	863.4	864.6	863.4	858.6	828.6	829.8	838.2
42.5°	831.0	829.8	826.2	823.8	826.2	829.8	831.0	823.8	785.4	781.8	797.4
45°	793.8	794.9	787.8	784.2	787.8	794.9	793.8	788.9	749.4	739.7	750.5
47.5°	756.5	756.5	750.5	747.0	750.5	756.5	756.5	750.5	708.5	698.9	704.9
50°	717.0	715.7	707.3	706.1	707.3	715.7	717.0	713.3	668.9	660.5	660.5
52.5°	671.3	671.3	672.5	674.9	672.5	671.3	671.3	672.5	632.9	624.5	622.1
55°	631.6	632.9	641.3	643.6	641.3	632.9	631.6	631.6	595.7	587.2	582.4
57.5°	590.8	590.8	596.8	596.8	596.8	590.8	590.8	588.4	553.6	546.4	544.0
60°	544.0	546.4	551.2	550.0	551.2	546.4	544.0	541.6	511.6	506.7	498.3
62.5°	494.7	497.2	498.3	496.0	498.3	497.2	494.7	487.6	469.6	465.9	455.2
65°	443.1	445.5	446.8	444.3	446.8	445.5	443.1	439.5	426.3	420.3	410.7
67.5°	390.3	389.1	387.8	392.7	387.8	389.1	390.3	385.5	377.1	372.3	359.1
70°	336.3	336.3	335.0	337.4	335.0	336.3	336.3	332.6	327.9	324.3	312.2
72.5°	278.6	277.4	282.2	278.6	282.2	277.4	278.6	277.4	275.0	271.4	259.4
75°	222.1	224.5	222.1	225.8	222.1	224.5	222.1	223.4	222.1	219.8	211.4
77.5°	169.3	171.7	169.3	169.3	169.3	171.7	169.3	170.6	170.6	170.6	163.3
80°	120.1	118.9	118.9	117.6	118.9	118.9	120.1	120.1	121.3	118.9	116.5
82.5°	76.8	75.7	75.7	78.1	75.7	75.7	76.8	78.1	75.7	75.7	75.7
85°	42.0	43.2	40.8	40.8	40.8	43.2	42.0	39.7	42.0	42.0	40.8
87.5°	15.6	14.4	14.4	14.4	14.4	14.4	15.6	16.8	16.8	16.8	18.0
90°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	18.7	24.9	28.0	24.1
92.5°	70.1	67.3	56.1	45.0	56.1	67.3	70.1	99.4	138.4	157.9	138.7
95°	238.1	229.6	195.8	162.1	195.8	229.6	238.1	312.6	412.0	461.7	389.9
97.5°	549.5	533.4	469.1	404.9	469.1	533.4	549.5	596.6	659.5	690.9	571.2
100°	771.7	752.5	676.0	599.3	676.0	752.5	771.7	768.3	763.7	761.4	628.6
102.5°	961.4	945.0	879.4	813.7	879.4	945.0	961.4	901.4	821.4	781.3	646.7
105°	1182.9	1174.0	1138.7	1103.5	1138.7	1174.0	1182.9	1048.3	868.8	779.1	648.7
107.5°	1298.0	1300.2	1308.7	1317.2	1308.7	1300.2	1298.0	1110.3	859.9	734.8	619.8
110°	1327.5	1336.7	1373.4	1410.2	1373.4	1336.7	1327.5	1117.6	837.8	697.9	594.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1308.7	1322.8	1379.2	1435.6	1379.2	1322.8	1308.7	1093.9	807.5	664.3	571.9
115°	1244.8	1264.4	1342.6	1420.9	1342.6	1264.4	1244.8	1037.9	762.1	624.1	546.3
117.5°	1156.7	1178.3	1265.2	1351.9	1265.2	1178.3	1156.7	969.9	720.9	596.4	530.2
120°	1097.2	1118.2	1202.6	1286.9	1202.6	1118.2	1097.2	926.6	699.1	585.4	524.8
122.5°	1037.8	1058.6	1141.8	1225.0	1141.8	1058.6	1037.8	884.2	679.3	576.8	522.0
125°	959.2	978.4	1054.9	1131.6	1054.9	978.4	959.2	828.7	654.7	567.6	519.6
127.5°	896.1	912.2	976.9	1041.5	976.9	912.2	896.1	784.0	634.6	559.8	518.3
130°	856.2	871.1	930.9	990.6	930.9	871.1	856.2	756.4	623.4	556.9	519.1
132.5°	822.3	835.6	889.1	942.6	889.1	835.6	822.3	733.0	613.9	554.4	519.6
135°	774.3	785.8	831.9	878.0	831.9	785.8	774.3	699.5	599.8	549.9	519.1
137.5°	738.9	748.3	786.1	823.8	786.1	748.3	738.9	675.7	591.4	549.2	522.3
140°	710.4	719.2	754.5	789.8	754.5	719.2	710.4	655.8	583.0	546.6	522.9
142.5°	690.6	698.2	728.4	758.8	728.4	698.2	690.6	642.6	578.6	546.6	524.7
145°	660.7	666.4	689.4	712.3	689.4	666.4	660.7	621.4	569.1	542.9	524.8
147.5°	635.5	640.2	659.3	678.4	659.3	640.2	635.5	604.6	563.5	542.9	528.4
150°	621.2	625.0	640.4	655.8	640.4	625.0	621.2	595.1	560.3	542.9	530.3
152.5°	609.7	612.7	624.3	635.9	624.3	612.7	609.7	587.4	557.8	542.9	531.5
155°	596.0	598.0	605.7	613.4	605.7	598.0	596.0	578.3	554.7	542.9	534.2
157.5°	584.2	585.5	591.0	596.4	591.0	585.5	584.2	570.4	552.0	542.9	536.9
160°	578.3	579.1	582.2	585.4	582.2	579.1	578.3	566.5	550.8	542.9	538.2
162.5°	572.8	573.5	576.5	579.4	576.5	573.5	572.8	562.9	549.5	542.9	539.5
165°	564.3	565.1	568.2	571.3	568.2	565.1	564.3	557.2	547.7	542.9	541.3
167.5°	560.6	561.0	562.3	563.6	562.3	561.0	560.6	556.0	549.7	546.6	545.2
170°	560.6	560.6	560.6	560.6	560.6	560.6	560.6	556.0	549.7	546.6	546.5
172.5°	557.7	557.4	556.3	555.1	556.3	557.4	557.7	554.0	549.1	546.6	546.6
175°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	551.2	548.1	546.6	547.3
177.5°	552.9	552.5	551.2	549.9	551.2	552.5	552.9	551.0	548.6	547.3	547.8
180°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1253.7	1259.7	1263.4	1268.1	1280.1
5°	1205.7	1228.5	1235.7	1253.7	1275.4
7.5°	1100.0	1169.6	1188.9	1232.1	1265.7
10°	997.9	1067.6	1101.2	1203.3	1253.7
12.5°	946.3	987.2	1009.9	1152.9	1236.9
15°	913.8	942.7	959.5	1085.6	1217.7
17.5°	888.7	909.1	921.1	1019.6	1191.3
20°	873.0	882.7	893.4	971.5	1161.2
22.5°	862.3	856.3	864.6	937.9	1120.4
25°	855.0	832.2	841.9	911.5	1072.4
27.5°	861.0	810.6	814.2	887.4	1022.0
30°	862.3	784.2	785.4	862.3	965.5
32.5°	853.9	756.5	757.8	831.0	901.8
35°	833.4	724.1	723.0	794.9	815.4
37.5°	805.8	689.3	689.3	755.4	720.5
40°	772.2	654.5	658.1	703.7	636.5
42.5°	731.4	617.2	622.1	635.3	574.0
45°	686.9	581.2	584.8	536.8	526.0
47.5°	637.6	544.0	545.2	445.5	510.4
50°	578.8	505.6	500.7	381.9	509.2
52.5°	527.2	463.5	449.1	345.9	462.3
55°	476.8	419.1	387.8	318.2	428.7
57.5°	432.3	361.4	331.4	285.8	421.5
60°	391.5	305.0	282.2	251.0	386.7
62.5°	357.9	263.0	258.2	227.0	350.7
65°	321.9	234.2	233.0	206.5	297.8
67.5°	287.0	215.0	213.8	187.3	227.0
70°	249.8	194.6	192.1	166.9	168.1
72.5°	211.4	171.7	169.3	150.1	139.3
75°	172.9	145.3	144.1	130.9	112.9
77.5°	135.7	115.3	117.6	105.6	82.9
80°	97.2	84.1	86.5	75.7	62.4
82.5°	64.8	55.2	57.7	48.1	42.0
85°	36.0	31.2	32.4	25.2	19.2
87.5°	16.8	14.4	14.4	9.6	6.0
90°	16.2	10.3	9.6	6.6	3.7
92.5°	100.2	71.3	65.0	39.8	14.8
95°	246.4	138.8	127.3	81.4	35.5
97.5°	331.9	152.4	142.3	101.7	61.2
100°	363.0	163.8	154.6	117.9	81.2
102.5°	377.3	175.3	166.7	132.5	98.2
105°	387.9	192.3	185.1	156.0	127.0
107.5°	389.8	217.4	210.6	183.5	156.5
110°	387.0	231.4	225.4	200.8	176.4



TEST NUMBER: P934266

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	387.0	248.4	242.5	219.3	196.0
115°	390.6	273.9	268.5	247.0	225.5
117.5°	397.9	298.6	293.7	274.1	254.6
120°	403.8	313.0	308.4	290.0	271.6
122.5°	412.2	329.9	325.3	306.7	288.2
125°	423.7	351.7	347.5	330.5	313.7
127.5°	435.1	372.7	368.4	351.4	334.4
130°	443.4	386.8	382.2	363.8	345.4
132.5°	450.3	398.2	393.7	375.2	356.9
135°	457.6	411.5	407.3	390.6	373.9
137.5°	468.7	428.5	424.4	407.8	391.3
140°	475.5	440.0	436.1	420.9	405.6
142.5°	481.1	448.4	444.9	430.7	416.7
145°	488.6	461.4	458.3	446.0	433.7
147.5°	499.3	477.6	474.6	462.6	450.6
150°	505.0	486.1	483.4	472.5	461.7
152.5°	508.7	491.6	489.6	481.4	473.2
155°	516.9	503.8	502.3	496.2	490.1
157.5°	524.9	516.0	514.4	508.5	502.6
160°	528.7	521.5	520.4	515.8	511.1
162.5°	532.6	527.4	526.5	523.1	519.6
165°	538.2	535.8	535.0	532.0	528.9
167.5°	542.6	540.7	540.3	538.8	537.4
170°	546.3	546.2	545.9	544.3	542.9
172.5°	546.6	546.6	546.5	546.2	545.9
175°	548.8	549.9	549.9	549.9	549.9
177.5°	549.0	549.9	549.9	549.9	549.9
180°	549.9	549.9	549.9	549.9	549.9



TEST NUMBER: P934266

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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	10.78	11.63	11.76	12.61	13.91	13.62	14.46	14.59	15.45	16.75
	3H	11.26	12.01	12.24	13.01	14.33	14.97	15.72	15.95	16.72	18.04
	4H	11.45	12.16	12.45	13.16	14.49	15.41	16.13	16.41	17.13	18.46
	6H	11.57	12.22	12.57	13.23	14.57	15.70	16.36	16.71	17.36	18.70
	8H	11.57	12.19	12.58	13.22	14.55	15.77	16.40	16.79	17.42	18.76
	12H	11.54	12.13	12.56	13.15	14.51	15.81	16.41	16.83	17.42	18.79
4H	2H	11.81	12.53	12.82	13.53	14.86	14.03	14.74	15.03	15.74	17.07
	3H	12.84	13.44	13.85	14.46	15.81	15.53	16.13	16.55	17.16	18.50
	4H	13.11	13.66	14.14	14.68	16.05	16.06	16.61	17.08	17.63	18.99
	6H	13.24	13.71	14.27	14.75	16.12	16.43	16.90	17.46	17.94	19.30
	8H	13.24	13.68	14.28	14.72	16.10	16.54	16.97	17.57	18.01	19.39
	12H	13.21	13.61	14.26	14.66	16.04	16.59	16.99	17.64	18.04	19.42
8H	4H	13.57	14.01	14.60	15.04	16.42	16.18	16.62	17.22	17.66	19.04
	6H	13.83	14.19	14.89	15.27	16.65	16.62	16.98	17.68	18.06	19.44
	8H	13.87	14.19	14.94	15.25	16.65	16.78	17.09	17.84	18.16	19.55
	12H	13.85	14.13	14.92	15.19	16.63	16.87	17.15	17.94	18.21	19.65
12H	4H	13.57	13.97	14.63	15.02	16.41	16.15	16.54	17.20	17.60	18.98
	6H	13.89	14.21	14.95	15.27	16.67	16.62	16.94	17.68	18.00	19.40
	8H	13.96	14.24	15.02	15.30	16.73	16.78	17.06	17.85	18.12	19.56