

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: P936059

Luminaire Tested: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

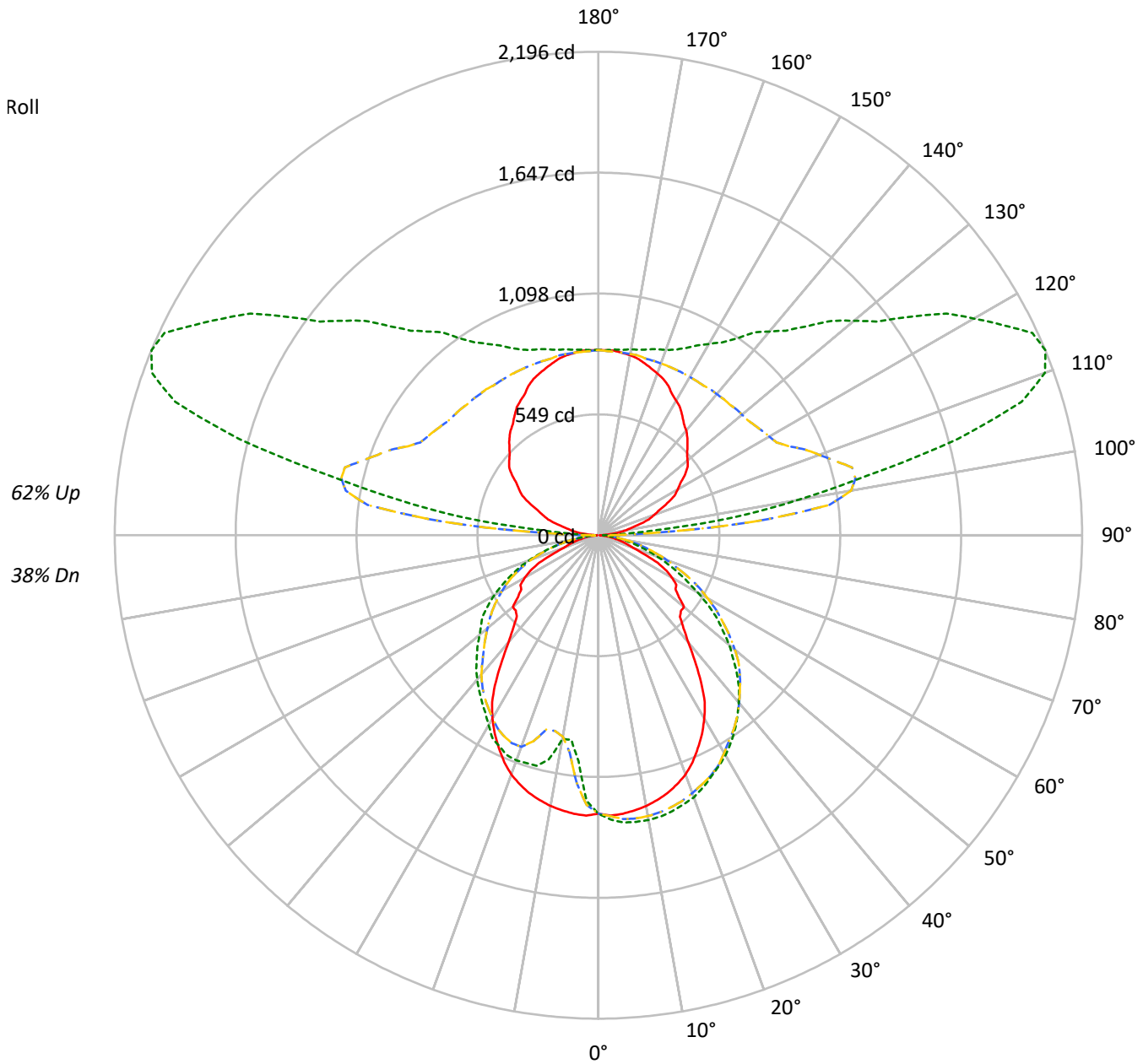
Test Method: LM-79-2019  
Report Number: P936059  
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8733.9 lumens  
Efficiency: N/A  
Efficacy: 120.6 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-Indirect  
  
Input Watts (W): 72.4  
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: P936059  
CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-4000K

### 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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

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

	0°	90°	180°	270°
0°	11730	11730	11730	11730
5°	11805	11841	11805	9310
10°	11713	11663	11713	8339
15°	11571	11410	11571	9528
20°	11316	11112	11316	9548
25°	10809	10675	10809	9346
30°	10157	10313	10157	8902
35°	9040	9854	9040	8414
40°	7521	9314	7521	8045
45°	6706	8683	6706	7621
50°	7109	7929	7109	7195
55°	6670	7117	6670	6948
60°	6850	6044	6850	6364
65°	6181	4996	6181	5585
70°	4252	3982	4252	4682
75°	3686	2943	3686	3524
80°	2911	1945	2911	2119
85°	1582	1030	1582	875

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10298 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.1	1.3
10°-20°	324.0	3.7
20°-30°	500.8	5.7
30°-40°	597.9	6.8
40°-50°	601.4	6.9
50°-60°	523.3	6.0
60°-70°	371.0	4.2
70°-80°	196.3	2.2
80°-90°	52.1	0.6
90°-100°	410.0	4.7
100°-110°	1078.0	12.3
110°-120°	1117.8	12.8
120°-130°	896.6	10.3
130°-140°	703.5	8.1
140°-150°	540.0	6.2
150°-160°	388.9	4.5
160°-170°	237.9	2.7
170°-180°	80.4	0.9
0°-30°	938.9	10.8
0°-40°	1536.8	17.6
0°-60°	2661.4	30.5
0°-90°	3280.8	37.6
90°-120°	2605.9	29.8
90°-150°	4745.9	54.3
90°-180°	5453.0	62.4
0°-180°	8733.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1264	1264	1264	1264	1264	
5°	1270	1310	1270	1030	1270	120
15°	1213	1298	1213	1084	1213	341
25°	1068	1210	1068	1060	1068	490
35°	812	1080	812	922	812	502
45°	524	890	524	781	524	420
55°	427	657	427	641	427	392
65°	297	396	297	442	297	283
75°	112	188	112	225	112	118
85°	19	48	19	41	19	26
90°	6	22	6	22	6	5
95°	54	248	54	248	54	60
105°	194	1688	194	1688	194	206
115°	345	2174	345	2174	345	341
125°	480	1731	480	1731	480	426
135°	572	1343	572	1343	572	442
145°	663	1090	663	1090	663	416
155°	750	938	750	938	750	344
165°	809	874	809	874	809	228
175°	841	847	841	847	841	80
180°	841	841	841	841	841	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1274.8	1274.8	1282.1	1284.4	1284.4	1280.8	1277.3	1280.8	1291.6	1295.2	1294.0
5°	1270.1	1279.6	1292.8	1295.2	1297.5	1296.4	1294.0	1296.4	1308.3	1310.8	1311.9
7.5°	1260.5	1278.4	1295.2	1298.8	1302.3	1298.8	1297.5	1300.0	1311.9	1314.3	1314.3
10°	1248.6	1273.7	1292.8	1295.2	1298.8	1295.2	1295.2	1300.0	1311.9	1314.3	1315.6
12.5°	1231.8	1266.5	1284.4	1286.9	1291.6	1290.4	1289.2	1294.0	1306.0	1308.3	1308.3
15°	1212.6	1253.4	1270.1	1272.5	1280.8	1278.4	1278.4	1283.2	1296.4	1300.0	1298.8
17.5°	1186.4	1236.6	1255.7	1259.4	1265.3	1264.1	1265.3	1270.1	1282.1	1284.4	1285.6
20°	1156.4	1213.9	1236.6	1240.2	1246.1	1246.1	1246.1	1252.1	1264.1	1268.9	1268.9
22.5°	1115.8	1189.9	1213.9	1216.3	1223.4	1223.4	1225.9	1234.2	1245.0	1246.1	1246.1
25°	1068.0	1163.7	1184.0	1191.2	1198.3	1201.9	1205.5	1210.3	1213.9	1212.6	1213.9
27.5°	1017.8	1130.2	1156.4	1161.2	1170.8	1174.4	1179.2	1180.4	1181.6	1185.1	1182.8
30°	961.6	1083.5	1122.9	1127.7	1143.3	1145.7	1141.0	1143.3	1149.3	1151.7	1154.1
32.5°	898.1	1014.1	1088.3	1099.0	1113.4	1106.2	1105.0	1108.6	1118.2	1118.2	1120.6
35°	812.0	960.4	1056.1	1065.6	1076.3	1068.0	1072.7	1074.0	1079.9	1083.5	1082.3
37.5°	717.5	913.7	1022.6	1029.7	1038.0	1027.3	1034.5	1038.0	1042.8	1040.5	1040.5
40°	633.9	840.7	983.1	987.8	995.0	986.6	993.8	996.2	998.6	996.2	995.0
42.5°	571.7	760.6	941.2	947.2	942.4	948.3	950.8	955.6	952.0	947.2	947.2
45°	523.8	739.1	895.7	902.9	895.7	905.3	908.9	908.9	898.1	895.7	894.6
47.5°	508.2	696.1	850.3	850.3	846.7	858.6	864.7	856.3	845.5	842.0	842.0
50°	507.1	648.2	788.1	783.3	800.1	814.5	808.5	800.1	791.7	778.5	778.5
52.5°	460.5	589.6	708.0	725.9	752.3	760.6	751.0	742.7	728.3	722.3	717.5
55°	427.0	528.6	635.1	670.9	698.4	709.2	691.3	682.9	661.3	657.8	655.3
57.5°	419.8	440.1	568.1	613.5	647.0	645.8	635.1	619.5	601.6	597.9	596.8
60°	385.1	318.1	496.3	550.2	584.8	581.2	571.7	557.3	540.6	538.2	535.8
62.5°	349.2	230.8	415.0	476.0	525.0	523.8	515.5	493.9	482.0	476.0	471.2
65°	296.6	193.7	295.4	395.8	466.4	468.8	450.9	435.3	422.2	415.0	413.7
67.5°	226.0	157.9	199.7	330.1	410.2	407.8	385.1	377.9	361.2	357.5	350.4
70°	167.5	105.3	138.8	267.9	355.2	349.2	331.3	322.9	307.4	299.0	294.2
72.5°	138.8	84.9	101.6	208.1	299.0	291.8	276.3	266.7	253.5	246.4	241.6
75°	112.4	89.7	77.8	154.2	242.8	238.0	223.7	214.1	203.3	193.7	195.0
77.5°	82.6	83.7	62.2	113.6	192.5	185.4	177.0	165.0	160.2	150.7	150.7
80°	62.2	65.8	46.6	77.8	138.8	138.8	131.5	123.2	114.8	110.1	110.1
82.5°	41.8	41.8	34.7	49.1	94.5	90.9	86.1	83.7	78.9	76.6	76.6
85°	19.1	23.9	21.5	29.9	51.4	53.9	53.9	51.4	50.2	47.8	49.1
87.5°	6.0	10.8	13.1	16.7	26.3	27.5	28.7	28.7	28.7	29.9	29.9
90°	5.6	10.1	14.7	15.8	24.9	36.9	42.9	38.1	28.6	21.5	21.5
92.5°	22.5	60.9	99.4	109.0	153.2	212.1	241.6	211.7	152.1	107.3	103.0
95°	54.2	124.5	194.7	212.3	376.9	596.5	706.3	630.3	478.2	364.1	351.2
97.5°	93.7	155.7	217.7	233.2	507.7	873.8	1056.9	1008.8	912.7	840.6	816.0
100°	124.2	180.4	236.6	250.6	555.3	961.6	1164.7	1168.2	1175.3	1180.5	1151.2
102.5°	150.2	202.7	255.1	268.2	577.2	989.2	1195.2	1256.4	1378.8	1470.7	1445.6
105°	194.2	238.7	283.0	294.2	593.3	992.2	1191.7	1329.0	1603.5	1809.4	1795.9
107.5°	239.4	280.8	322.2	332.6	596.4	948.2	1124.0	1315.5	1698.4	1985.6	1988.8
110°	269.8	307.2	344.7	354.0	591.9	909.0	1067.5	1281.6	1709.7	2030.7	2044.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	299.8	335.5	371.1	380.0	592.1	874.8	1016.2	1235.3	1673.4	2001.9	2023.5
115°	345.0	377.8	410.7	418.9	597.5	835.6	954.7	1165.7	1587.7	1904.3	1934.2
117.5°	389.6	419.5	449.3	456.7	608.6	811.1	912.3	1102.8	1483.6	1769.3	1802.5
120°	415.5	443.6	471.7	478.7	617.6	802.8	895.4	1069.4	1417.4	1678.4	1710.7
122.5°	440.9	469.2	497.7	504.7	630.6	798.5	882.4	1039.1	1352.5	1587.6	1619.3
125°	479.9	505.7	531.6	538.0	648.1	794.9	868.3	1001.4	1267.6	1467.3	1496.6
127.5°	511.5	537.6	563.6	570.2	665.6	792.8	856.5	970.8	1199.3	1370.8	1395.5
130°	528.4	556.5	584.6	591.6	678.4	794.1	851.9	953.7	1157.2	1309.8	1332.6
132.5°	545.9	574.1	602.1	609.2	688.7	794.9	848.0	939.0	1121.2	1257.8	1278.3
135°	571.9	597.5	623.0	629.4	700.1	794.1	841.2	917.5	1070.0	1184.4	1202.1
137.5°	598.4	623.7	649.1	655.4	717.0	799.1	840.1	904.5	1033.5	1130.3	1144.7
140°	620.5	643.8	667.2	673.0	727.4	799.9	836.1	891.8	1003.2	1086.7	1100.2
142.5°	637.4	659.0	680.5	685.9	736.0	802.7	836.1	885.1	982.9	1056.3	1067.9
145°	663.4	682.2	701.0	705.7	747.3	802.8	830.5	870.5	950.5	1010.5	1019.3
147.5°	689.3	707.7	725.9	730.6	763.9	808.3	830.5	862.0	924.9	972.1	979.4
150°	706.3	722.9	739.3	743.5	772.5	811.1	830.5	857.1	910.2	950.1	956.0
152.5°	723.8	736.3	748.8	752.0	778.2	813.0	830.5	853.2	898.6	932.7	937.1
155°	749.7	759.1	768.3	770.7	790.6	817.2	830.5	848.6	884.7	911.8	914.8
157.5°	768.9	778.0	786.9	789.2	803.0	821.3	830.5	844.5	872.6	893.7	895.7
160°	781.9	788.9	796.0	797.7	808.7	823.2	830.5	842.5	866.6	884.6	885.8
162.5°	794.9	800.2	805.4	806.8	814.6	825.2	830.5	840.6	861.0	876.2	877.3
165°	809.0	813.7	818.5	819.7	823.3	828.1	830.5	837.7	852.3	863.2	864.3
167.5°	822.0	824.2	826.5	827.0	830.0	834.1	836.1	840.9	850.4	857.5	858.1
170°	830.5	832.7	835.0	835.6	835.7	836.0	836.1	840.9	850.4	857.5	857.5
172.5°	835.0	835.5	836.0	836.1	836.1	836.1	836.1	839.9	847.4	853.0	852.6
175°	841.2	841.2	841.2	841.2	839.4	837.2	836.1	838.5	843.2	846.9	846.9
177.5°	841.2	841.2	841.2	841.2	839.9	838.2	837.3	839.2	842.9	845.7	845.1
180°	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1296.4	1292.8	1296.4	1294.0	1295.2	1291.6	1280.8	1277.3	1280.8	1284.4	1284.4
5°	1311.9	1309.6	1311.9	1311.9	1310.8	1308.3	1296.4	1294.0	1296.4	1297.5	1295.2
7.5°	1316.7	1313.1	1316.7	1314.3	1314.3	1311.9	1300.0	1297.5	1298.8	1302.3	1298.8
10°	1316.7	1313.1	1316.7	1315.6	1314.3	1311.9	1300.0	1295.2	1295.2	1298.8	1295.2
12.5°	1310.8	1308.3	1310.8	1308.3	1308.3	1306.0	1294.0	1289.2	1290.4	1291.6	1286.9
15°	1301.2	1297.5	1301.2	1298.8	1300.0	1296.4	1283.2	1278.4	1278.4	1280.8	1272.5
17.5°	1286.9	1282.1	1286.9	1285.6	1284.4	1282.1	1270.1	1265.3	1264.1	1265.3	1259.4
20°	1270.1	1266.5	1270.1	1268.9	1268.9	1264.1	1252.1	1246.1	1246.1	1246.1	1240.2
22.5°	1243.8	1240.2	1243.8	1246.1	1246.1	1245.0	1234.2	1225.9	1223.4	1223.4	1216.3
25°	1213.9	1210.3	1213.9	1213.9	1212.6	1213.9	1210.3	1205.5	1201.9	1198.3	1191.2
27.5°	1185.1	1182.8	1185.1	1182.8	1185.1	1181.6	1180.4	1179.2	1174.4	1170.8	1161.2
30°	1156.4	1154.1	1156.4	1154.1	1151.7	1149.3	1143.3	1141.0	1145.7	1143.3	1127.7
32.5°	1120.6	1118.2	1120.6	1120.6	1118.2	1118.2	1108.6	1105.0	1106.2	1113.4	1099.0
35°	1083.5	1079.9	1083.5	1082.3	1083.5	1079.9	1074.0	1072.7	1068.0	1076.3	1065.6
37.5°	1040.5	1036.9	1040.5	1040.5	1040.5	1042.8	1038.0	1034.5	1027.3	1038.0	1029.7
40°	996.2	991.4	996.2	995.0	996.2	998.6	996.2	993.8	986.6	995.0	987.8
42.5°	946.0	944.8	946.0	947.2	947.2	952.0	955.6	950.8	948.3	942.4	947.2
45°	892.1	889.8	892.1	894.6	895.7	898.1	908.9	908.9	905.3	895.7	902.9
47.5°	834.7	828.8	834.7	842.0	842.0	845.5	856.3	864.7	858.6	846.7	850.3
50°	773.7	775.0	773.7	778.5	778.5	791.7	800.1	808.5	814.5	800.1	783.3
52.5°	714.0	712.8	714.0	717.5	722.3	728.3	742.7	751.0	760.6	752.3	725.9
55°	654.2	656.6	654.2	655.3	657.8	661.3	682.9	691.3	709.2	698.4	670.9
57.5°	594.4	590.8	594.4	596.8	597.9	601.6	619.5	635.1	645.8	647.0	613.5
60°	525.0	520.2	525.0	535.8	538.2	540.6	557.3	571.7	581.2	584.8	550.2
62.5°	464.0	455.7	464.0	471.2	476.0	482.0	493.9	515.5	523.8	525.0	476.0
65°	399.4	395.8	399.4	413.7	415.0	422.2	435.3	450.9	468.8	466.4	395.8
67.5°	340.9	340.9	340.9	350.4	357.5	361.2	377.9	385.1	407.8	410.2	330.1
70°	287.0	285.8	287.0	294.2	299.0	307.4	322.9	331.3	349.2	355.2	267.9
72.5°	235.6	234.4	235.6	241.6	246.4	253.5	266.7	276.3	291.8	299.0	208.1
75°	190.2	187.7	190.2	195.0	193.7	203.3	214.1	223.7	238.0	242.8	154.2
77.5°	145.9	145.9	145.9	150.7	150.7	160.2	165.0	177.0	185.4	192.5	113.6
80°	108.8	107.6	108.8	110.1	110.1	114.8	123.2	131.5	138.8	138.8	77.8
82.5°	76.6	74.1	76.6	76.6	76.6	78.9	83.7	86.1	90.9	94.5	49.1
85°	47.8	47.8	47.8	49.1	47.8	50.2	51.4	53.9	53.9	51.4	29.9
87.5°	31.1	29.9	31.1	29.9	29.9	28.7	28.7	28.7	27.5	26.3	16.7
90°	21.5	21.5	21.5	21.5	21.5	28.6	38.1	42.9	36.9	24.9	15.8
92.5°	85.9	68.9	85.9	103.0	107.3	152.1	211.7	241.6	212.1	153.2	109.0
95°	299.5	247.8	299.5	351.2	364.1	478.2	630.3	706.3	596.5	376.9	212.3
97.5°	717.7	619.3	717.7	816.0	840.6	912.7	1008.8	1056.9	873.8	507.7	233.2
100°	1034.1	916.8	1034.1	1151.2	1180.5	1175.3	1168.2	1164.7	961.6	555.3	250.6
102.5°	1345.3	1244.9	1345.3	1445.6	1470.7	1378.8	1256.4	1195.2	989.2	577.2	268.2
105°	1742.0	1688.0	1742.0	1795.9	1809.4	1603.5	1329.0	1191.7	992.2	593.3	294.2
107.5°	2001.9	2014.9	2001.9	1988.8	1985.6	1698.4	1315.5	1124.0	948.2	596.4	332.6
110°	2101.0	2157.2	2101.0	2044.8	2030.7	1709.7	1281.6	1067.5	909.0	591.9	354.0





TEST NUMBER: P936059

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2109.8	2196.1	2109.8	2023.5	2001.9	1673.4	1235.3	1016.2	874.8	592.1	380.0
115°	2053.9	2173.6	2053.9	1934.2	1904.3	1587.7	1165.7	954.7	835.6	597.5	418.9
117.5°	1935.2	2067.9	1935.2	1802.5	1769.3	1483.6	1102.8	912.3	811.1	608.6	456.7
120°	1839.6	1968.6	1839.6	1710.7	1678.4	1417.4	1069.4	895.4	802.8	617.6	478.7
122.5°	1746.6	1873.8	1746.6	1619.3	1587.6	1352.5	1039.1	882.4	798.5	630.6	504.7
125°	1613.7	1730.9	1613.7	1496.6	1467.3	1267.6	1001.4	868.3	794.9	648.1	538.0
127.5°	1494.3	1593.2	1494.3	1395.5	1370.8	1199.3	970.8	856.5	792.8	665.6	570.2
130°	1423.9	1515.2	1423.9	1332.6	1309.8	1157.2	953.7	851.9	794.1	678.4	591.6
132.5°	1360.0	1441.8	1360.0	1278.3	1257.8	1121.2	939.0	848.0	794.9	688.7	609.2
135°	1272.6	1343.1	1272.6	1202.1	1184.4	1070.0	917.5	841.2	794.1	700.1	629.4
137.5°	1202.4	1260.1	1202.4	1144.7	1130.3	1033.5	904.5	840.1	799.1	717.0	655.4
140°	1154.2	1208.1	1154.2	1100.2	1086.7	1003.2	891.8	836.1	799.9	727.4	673.0
142.5°	1114.3	1160.7	1114.3	1067.9	1056.3	982.9	885.1	836.1	802.7	736.0	685.9
145°	1054.5	1089.6	1054.5	1019.3	1010.5	950.5	870.5	830.5	802.8	747.3	705.7
147.5°	1008.5	1037.7	1008.5	979.4	972.1	924.9	862.0	830.5	808.3	763.9	730.6
150°	979.7	1003.2	979.7	956.0	950.1	910.2	857.1	830.5	811.1	772.5	743.5
152.5°	954.9	972.7	954.9	937.1	932.7	898.6	853.2	830.5	813.0	778.2	752.0
155°	926.5	938.3	926.5	914.8	911.8	884.7	848.6	830.5	817.2	790.6	770.7
157.5°	904.0	912.3	904.0	895.7	893.7	872.6	844.5	830.5	821.3	803.0	789.2
160°	890.6	895.4	890.6	885.8	884.6	866.6	842.5	830.5	823.2	808.7	797.7
162.5°	881.8	886.3	881.8	877.3	876.2	861.0	840.6	830.5	825.2	814.6	806.8
165°	869.1	873.9	869.1	864.3	863.2	852.3	837.7	830.5	828.1	823.3	819.7
167.5°	860.1	862.1	860.1	858.1	857.5	850.4	840.9	836.1	834.1	830.0	827.0
170°	857.5	857.5	857.5	857.5	857.5	850.4	840.9	836.1	836.0	835.7	835.6
172.5°	850.9	849.1	850.9	852.6	853.0	847.4	839.9	836.1	836.1	836.1	836.1
175°	846.9	846.9	846.9	846.9	846.9	843.2	838.5	836.1	837.2	839.4	841.2
177.5°	843.2	841.2	843.2	845.1	845.7	842.9	839.2	837.3	838.2	839.9	841.2
180°	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2



TEST NUMBER: P936059

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1282.1	1274.8	1274.8	1262.9	1258.1	1254.6	1248.6	1230.7	1225.9	1221.1	1228.2
5°	1292.8	1279.6	1270.1	1248.6	1230.7	1223.4	1200.7	1157.7	1128.9	1107.5	1095.5
7.5°	1295.2	1278.4	1260.5	1227.0	1184.0	1164.9	1095.5	1016.6	995.0	975.9	963.9
10°	1292.8	1273.7	1248.6	1198.3	1096.7	1063.2	993.8	942.4	929.2	925.6	929.2
12.5°	1284.4	1266.5	1231.8	1148.1	1005.8	983.1	942.4	912.5	910.1	916.1	948.3
15°	1270.1	1253.4	1212.6	1081.1	955.6	938.8	910.1	899.4	912.5	954.3	1051.3
17.5°	1255.7	1236.6	1186.4	1015.3	917.3	905.3	885.0	906.5	980.7	1036.9	1069.2
20°	1236.6	1213.9	1156.4	967.5	889.8	879.0	869.4	966.3	1022.6	1042.8	1060.8
22.5°	1213.9	1189.9	1115.8	934.0	861.1	852.7	858.6	999.8	1022.6	1036.9	1052.4
25°	1184.0	1163.7	1068.0	907.7	838.4	828.8	851.5	996.2	1009.3	1013.0	1044.0
27.5°	1156.4	1130.2	1017.8	883.8	810.8	807.2	857.5	980.7	990.2	993.8	1027.3
30°	1122.9	1083.5	961.6	858.6	782.1	781.0	858.6	961.6	959.1	968.7	1002.2
32.5°	1088.3	1014.1	898.1	827.6	754.6	753.5	850.3	932.9	930.4	943.6	968.7
35°	1056.1	960.4	812.0	791.7	720.0	721.1	829.9	899.4	900.5	912.5	928.1
37.5°	1022.6	913.7	717.5	752.3	686.5	686.5	802.4	868.2	865.9	869.4	890.9
40°	983.1	840.7	633.9	700.8	655.3	651.8	769.0	834.7	826.4	825.2	855.1
42.5°	941.2	760.6	571.7	632.6	619.5	614.7	728.3	794.1	778.5	782.1	820.4
45°	895.7	739.1	523.8	534.6	582.4	578.9	684.0	747.5	736.7	746.3	785.8
47.5°	850.3	696.1	508.2	443.7	542.9	541.7	635.1	702.0	696.1	705.6	747.5
50°	788.1	648.2	507.1	380.3	498.7	503.5	576.4	657.8	657.8	666.1	710.4
52.5°	708.0	589.6	460.5	344.4	447.2	461.6	525.0	619.5	621.8	630.3	669.7
55°	635.1	528.6	427.0	316.9	386.3	417.4	474.8	580.0	584.8	593.2	629.1
57.5°	568.1	440.1	419.8	284.7	330.1	360.0	430.5	541.7	544.2	551.3	586.0
60°	496.3	318.1	385.1	249.9	281.1	303.8	389.9	496.3	504.7	509.4	539.4
62.5°	415.0	230.8	349.2	226.0	257.2	262.0	356.4	453.2	464.0	467.6	485.5
65°	295.4	193.7	296.6	205.7	232.0	233.2	320.5	409.0	418.5	424.5	437.7
67.5°	199.7	157.9	226.0	186.6	212.9	214.1	285.8	357.5	370.8	375.6	383.9
70°	138.8	105.3	167.5	166.3	191.4	193.7	248.7	310.9	322.9	326.5	331.3
72.5°	101.6	84.9	138.8	149.5	168.6	171.0	210.4	258.3	270.3	273.9	276.3
75°	77.8	89.7	112.4	130.3	143.5	144.7	172.3	210.4	218.9	221.2	222.4
77.5°	62.2	83.7	82.6	105.3	117.2	114.8	135.1	162.7	169.8	169.8	169.8
80°	46.6	65.8	62.2	75.3	86.1	83.7	96.9	116.0	118.4	120.7	119.6
82.5°	34.7	41.8	41.8	47.8	57.4	55.0	64.5	75.3	75.3	75.3	77.8
85°	21.5	23.9	19.1	25.1	32.3	31.1	35.8	40.6	41.8	41.8	39.5
87.5°	13.1	10.8	6.0	9.6	14.4	14.4	16.7	17.9	16.7	16.7	16.7
90°	14.7	10.1	5.6	10.1	14.7	15.8	24.9	36.9	42.9	38.1	28.6
92.5°	99.4	60.9	22.5	60.9	99.4	109.0	153.2	212.1	241.6	211.7	152.1
95°	194.7	124.5	54.2	124.5	194.7	212.3	376.9	596.5	706.3	630.3	478.2
97.5°	217.7	155.7	93.7	155.7	217.7	233.2	507.7	873.8	1056.9	1008.8	912.7
100°	236.6	180.4	124.2	180.4	236.6	250.6	555.3	961.6	1164.7	1168.2	1175.3
102.5°	255.1	202.7	150.2	202.7	255.1	268.2	577.2	989.2	1195.2	1256.4	1378.8
105°	283.0	238.7	194.2	238.7	283.0	294.2	593.3	992.2	1191.7	1329.0	1603.5
107.5°	322.2	280.8	239.4	280.8	322.2	332.6	596.4	948.2	1124.0	1315.5	1698.4
110°	344.7	307.2	269.8	307.2	344.7	354.0	591.9	909.0	1067.5	1281.6	1709.7



TEST NUMBER: P936059

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	371.1	335.5	299.8	335.5	371.1	380.0	592.1	874.8	1016.2	1235.3	1673.4
115°	410.7	377.8	345.0	377.8	410.7	418.9	597.5	835.6	954.7	1165.7	1587.7
117.5°	449.3	419.5	389.6	419.5	449.3	456.7	608.6	811.1	912.3	1102.8	1483.6
120°	471.7	443.6	415.5	443.6	471.7	478.7	617.6	802.8	895.4	1069.4	1417.4
122.5°	497.7	469.2	440.9	469.2	497.7	504.7	630.6	798.5	882.4	1039.1	1352.5
125°	531.6	505.7	479.9	505.7	531.6	538.0	648.1	794.9	868.3	1001.4	1267.6
127.5°	563.6	537.6	511.5	537.6	563.6	570.2	665.6	792.8	856.5	970.8	1199.3
130°	584.6	556.5	528.4	556.5	584.6	591.6	678.4	794.1	851.9	953.7	1157.2
132.5°	602.1	574.1	545.9	574.1	602.1	609.2	688.7	794.9	848.0	939.0	1121.2
135°	623.0	597.5	571.9	597.5	623.0	629.4	700.1	794.1	841.2	917.5	1070.0
137.5°	649.1	623.7	598.4	623.7	649.1	655.4	717.0	799.1	840.1	904.5	1033.5
140°	667.2	643.8	620.5	643.8	667.2	673.0	727.4	799.9	836.1	891.8	1003.2
142.5°	680.5	659.0	637.4	659.0	680.5	685.9	736.0	802.7	836.1	885.1	982.9
145°	701.0	682.2	663.4	682.2	701.0	705.7	747.3	802.8	830.5	870.5	950.5
147.5°	725.9	707.7	689.3	707.7	725.9	730.6	763.9	808.3	830.5	862.0	924.9
150°	739.3	722.9	706.3	722.9	739.3	743.5	772.5	811.1	830.5	857.1	910.2
152.5°	748.8	736.3	723.8	736.3	748.8	752.0	778.2	813.0	830.5	853.2	898.6
155°	768.3	759.1	749.7	759.1	768.3	770.7	790.6	817.2	830.5	848.6	884.7
157.5°	786.9	778.0	768.9	778.0	786.9	789.2	803.0	821.3	830.5	844.5	872.6
160°	796.0	788.9	781.9	788.9	796.0	797.7	808.7	823.2	830.5	842.5	866.6
162.5°	805.4	800.2	794.9	800.2	805.4	806.8	814.6	825.2	830.5	840.6	861.0
165°	818.5	813.7	809.0	813.7	818.5	819.7	823.3	828.1	830.5	837.7	852.3
167.5°	826.5	824.2	822.0	824.2	826.5	827.0	830.0	834.1	836.1	840.9	850.4
170°	835.0	832.7	830.5	832.7	835.0	835.6	835.7	836.0	836.1	840.9	850.4
172.5°	836.0	835.5	835.0	835.5	836.0	836.1	836.1	836.1	836.1	839.9	847.4
175°	841.2	841.2	841.2	841.2	841.2	841.2	839.4	837.2	836.1	838.5	843.2
177.5°	841.2	841.2	841.2	841.2	841.2	841.2	839.9	838.2	837.3	839.2	842.9
180°	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2



TEST NUMBER: P936059

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1219.9	1216.3	1221.1	1207.8	1221.1	1216.3	1219.9	1228.2	1221.1	1225.9	1230.7
5°	1070.4	1064.4	1045.3	1029.7	1045.3	1064.4	1070.4	1095.5	1107.5	1128.9	1157.7
7.5°	956.8	952.0	947.2	937.6	947.2	952.0	956.8	963.9	975.9	995.0	1016.6
10°	931.6	932.9	940.0	938.8	940.0	932.9	931.6	929.2	925.6	929.2	942.4
12.5°	996.2	1007.0	1046.5	1044.0	1046.5	1007.0	996.2	948.3	916.1	910.1	912.5
15°	1070.4	1074.0	1082.3	1083.5	1082.3	1074.0	1070.4	1051.3	954.3	912.5	899.4
17.5°	1077.5	1078.8	1084.7	1084.7	1084.7	1078.8	1077.5	1069.2	1036.9	980.7	906.5
20°	1071.5	1074.0	1085.9	1088.3	1085.9	1074.0	1071.5	1060.8	1042.8	1022.6	966.3
22.5°	1069.2	1074.0	1083.5	1082.3	1083.5	1074.0	1069.2	1052.4	1036.9	1022.6	999.8
25°	1057.2	1057.2	1058.4	1059.6	1058.4	1057.2	1057.2	1044.0	1013.0	1009.3	996.2
27.5°	1032.1	1034.5	1041.7	1040.5	1041.7	1034.5	1032.1	1027.3	993.8	990.2	980.7
30°	1009.3	1007.0	1001.0	996.2	1001.0	1007.0	1009.3	1002.2	968.7	959.1	961.6
32.5°	971.1	965.1	959.1	955.6	959.1	965.1	971.1	968.7	943.6	930.4	932.9
35°	925.6	926.9	925.6	922.1	925.6	926.9	925.6	928.1	912.5	900.5	899.4
37.5°	893.4	895.7	894.6	889.8	894.6	895.7	893.4	890.9	869.4	865.9	868.2
40°	859.9	861.1	859.9	856.3	859.9	861.1	859.9	855.1	825.2	826.4	834.7
42.5°	827.6	826.4	822.8	820.4	822.8	826.4	827.6	820.4	782.1	778.5	794.1
45°	790.5	791.7	784.5	781.0	784.5	791.7	790.5	785.8	746.3	736.7	747.5
47.5°	753.5	753.5	747.5	743.9	747.5	753.5	753.5	747.5	705.6	696.1	702.0
50°	714.0	712.8	704.4	703.2	704.4	712.8	714.0	710.4	666.1	657.8	657.8
52.5°	668.6	668.6	669.7	672.1	669.7	668.6	668.6	669.7	630.3	621.8	619.5
55°	629.1	630.3	638.6	641.0	638.6	630.3	629.1	629.1	593.2	584.8	580.0
57.5°	588.4	588.4	594.4	594.4	594.4	588.4	588.4	586.0	551.3	544.2	541.7
60°	541.7	544.2	548.9	547.7	548.9	544.2	541.7	539.4	509.4	504.7	496.3
62.5°	492.7	495.1	496.3	493.9	496.3	495.1	492.7	485.5	467.6	464.0	453.2
65°	441.3	443.7	444.9	442.5	444.9	443.7	441.3	437.7	424.5	418.5	409.0
67.5°	388.7	387.5	386.3	391.0	386.3	387.5	388.7	383.9	375.6	370.8	357.5
70°	334.8	334.8	333.6	336.1	333.6	334.8	334.8	331.3	326.5	322.9	310.9
72.5°	277.4	276.3	281.1	277.4	281.1	276.3	277.4	276.3	273.9	270.3	258.3
75°	221.2	223.7	221.2	224.8	221.2	223.7	221.2	222.4	221.2	218.9	210.4
77.5°	168.6	171.0	168.6	168.6	168.6	171.0	168.6	169.8	169.8	169.8	162.7
80°	119.6	118.4	118.4	117.2	118.4	118.4	119.6	119.6	120.7	118.4	116.0
82.5°	76.6	75.3	75.3	77.8	75.3	75.3	76.6	77.8	75.3	75.3	75.3
85°	41.8	43.1	40.6	40.6	40.6	43.1	41.8	39.5	41.8	41.8	40.6
87.5°	15.6	14.4	14.4	14.4	14.4	14.4	15.6	16.7	16.7	16.7	17.9
90°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	28.6	38.1	42.9	36.9
92.5°	107.3	103.0	85.9	68.9	85.9	103.0	107.3	152.1	211.7	241.6	212.1
95°	364.1	351.2	299.5	247.8	299.5	351.2	364.1	478.2	630.3	706.3	596.5
97.5°	840.6	816.0	717.7	619.3	717.7	816.0	840.6	912.7	1008.8	1056.9	873.8
100°	1180.5	1151.2	1034.1	916.8	1034.1	1151.2	1180.5	1175.3	1168.2	1164.7	961.6
102.5°	1470.7	1445.6	1345.3	1244.9	1345.3	1445.6	1470.7	1378.8	1256.4	1195.2	989.2
105°	1809.4	1795.9	1742.0	1688.0	1742.0	1795.9	1809.4	1603.5	1329.0	1191.7	992.2
107.5°	1985.6	1988.8	2001.9	2014.9	2001.9	1988.8	1985.6	1698.4	1315.5	1124.0	948.2
110°	2030.7	2044.8	2101.0	2157.2	2101.0	2044.8	2030.7	1709.7	1281.6	1067.5	909.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2001.9	2023.5	2109.8	2196.1	2109.8	2023.5	2001.9	1673.4	1235.3	1016.2	874.8
115°	1904.3	1934.2	2053.9	2173.6	2053.9	1934.2	1904.3	1587.7	1165.7	954.7	835.6
117.5°	1769.3	1802.5	1935.2	2067.9	1935.2	1802.5	1769.3	1483.6	1102.8	912.3	811.1
120°	1678.4	1710.7	1839.6	1968.6	1839.6	1710.7	1678.4	1417.4	1069.4	895.4	802.8
122.5°	1587.6	1619.3	1746.6	1873.8	1746.6	1619.3	1587.6	1352.5	1039.1	882.4	798.5
125°	1467.3	1496.6	1613.7	1730.9	1613.7	1496.6	1467.3	1267.6	1001.4	868.3	794.9
127.5°	1370.8	1395.5	1494.3	1593.2	1494.3	1395.5	1370.8	1199.3	970.8	856.5	792.8
130°	1309.8	1332.6	1423.9	1515.2	1423.9	1332.6	1309.8	1157.2	953.7	851.9	794.1
132.5°	1257.8	1278.3	1360.0	1441.8	1360.0	1278.3	1257.8	1121.2	939.0	848.0	794.9
135°	1184.4	1202.1	1272.6	1343.1	1272.6	1202.1	1184.4	1070.0	917.5	841.2	794.1
137.5°	1130.3	1144.7	1202.4	1260.1	1202.4	1144.7	1130.3	1033.5	904.5	840.1	799.1
140°	1086.7	1100.2	1154.2	1208.1	1154.2	1100.2	1086.7	1003.2	891.8	836.1	799.9
142.5°	1056.3	1067.9	1114.3	1160.7	1114.3	1067.9	1056.3	982.9	885.1	836.1	802.7
145°	1010.5	1019.3	1054.5	1089.6	1054.5	1019.3	1010.5	950.5	870.5	830.5	802.8
147.5°	972.1	979.4	1008.5	1037.7	1008.5	979.4	972.1	924.9	862.0	830.5	808.3
150°	950.1	956.0	979.7	1003.2	979.7	956.0	950.1	910.2	857.1	830.5	811.1
152.5°	932.7	937.1	954.9	972.7	954.9	937.1	932.7	898.6	853.2	830.5	813.0
155°	911.8	914.8	926.5	938.3	926.5	914.8	911.8	884.7	848.6	830.5	817.2
157.5°	893.7	895.7	904.0	912.3	904.0	895.7	893.7	872.6	844.5	830.5	821.3
160°	884.6	885.8	890.6	895.4	890.6	885.8	884.6	866.6	842.5	830.5	823.2
162.5°	876.2	877.3	881.8	886.3	881.8	877.3	876.2	861.0	840.6	830.5	825.2
165°	863.2	864.3	869.1	873.9	869.1	864.3	863.2	852.3	837.7	830.5	828.1
167.5°	857.5	858.1	860.1	862.1	860.1	858.1	857.5	850.4	840.9	836.1	834.1
170°	857.5	857.5	857.5	857.5	857.5	857.5	857.5	850.4	840.9	836.1	836.0
172.5°	853.0	852.6	850.9	849.1	850.9	852.6	853.0	847.4	839.9	836.1	836.1
175°	846.9	846.9	846.9	846.9	846.9	846.9	846.9	843.2	838.5	836.1	837.2
177.5°	845.7	845.1	843.2	841.2	843.2	845.1	845.7	842.9	839.2	837.3	838.2
180°	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1248.6	1254.6	1258.1	1262.9	1274.8
5°	1200.7	1223.4	1230.7	1248.6	1270.1
7.5°	1095.5	1164.9	1184.0	1227.0	1260.5
10°	993.8	1063.2	1096.7	1198.3	1248.6
12.5°	942.4	983.1	1005.8	1148.1	1231.8
15°	910.1	938.8	955.6	1081.1	1212.6
17.5°	885.0	905.3	917.3	1015.3	1186.4
20°	869.4	879.0	889.8	967.5	1156.4
22.5°	858.6	852.7	861.1	934.0	1115.8
25°	851.5	828.8	838.4	907.7	1068.0
27.5°	857.5	807.2	810.8	883.8	1017.8
30°	858.6	781.0	782.1	858.6	961.6
32.5°	850.3	753.5	754.6	827.6	898.1
35°	829.9	721.1	720.0	791.7	812.0
37.5°	802.4	686.5	686.5	752.3	717.5
40°	769.0	651.8	655.3	700.8	633.9
42.5°	728.3	614.7	619.5	632.6	571.7
45°	684.0	578.9	582.4	534.6	523.8
47.5°	635.1	541.7	542.9	443.7	508.2
50°	576.4	503.5	498.7	380.3	507.1
52.5°	525.0	461.6	447.2	344.4	460.5
55°	474.8	417.4	386.3	316.9	427.0
57.5°	430.5	360.0	330.1	284.7	419.8
60°	389.9	303.8	281.1	249.9	385.1
62.5°	356.4	262.0	257.2	226.0	349.2
65°	320.5	233.2	232.0	205.7	296.6
67.5°	285.8	214.1	212.9	186.6	226.0
70°	248.7	193.7	191.4	166.3	167.5
72.5°	210.4	171.0	168.6	149.5	138.8
75°	172.3	144.7	143.5	130.3	112.4
77.5°	135.1	114.8	117.2	105.3	82.6
80°	96.9	83.7	86.1	75.3	62.2
82.5°	64.5	55.0	57.4	47.8	41.8
85°	35.8	31.1	32.3	25.1	19.1
87.5°	16.7	14.4	14.4	9.6	6.0
90°	24.9	15.8	14.7	10.1	5.6
92.5°	153.2	109.0	99.4	60.9	22.5
95°	376.9	212.3	194.7	124.5	54.2
97.5°	507.7	233.2	217.7	155.7	93.7
100°	555.3	250.6	236.6	180.4	124.2
102.5°	577.2	268.2	255.1	202.7	150.2
105°	593.3	294.2	283.0	238.7	194.2
107.5°	596.4	332.6	322.2	280.8	239.4
110°	591.9	354.0	344.7	307.2	269.8



TEST NUMBER: P936059

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	592.1	380.0	371.1	335.5	299.8
115°	597.5	418.9	410.7	377.8	345.0
117.5°	608.6	456.7	449.3	419.5	389.6
120°	617.6	478.7	471.7	443.6	415.5
122.5°	630.6	504.7	497.7	469.2	440.9
125°	648.1	538.0	531.6	505.7	479.9
127.5°	665.6	570.2	563.6	537.6	511.5
130°	678.4	591.6	584.6	556.5	528.4
132.5°	688.7	609.2	602.1	574.1	545.9
135°	700.1	629.4	623.0	597.5	571.9
137.5°	717.0	655.4	649.1	623.7	598.4
140°	727.4	673.0	667.2	643.8	620.5
142.5°	736.0	685.9	680.5	659.0	637.4
145°	747.3	705.7	701.0	682.2	663.4
147.5°	763.9	730.6	725.9	707.7	689.3
150°	772.5	743.5	739.3	722.9	706.3
152.5°	778.2	752.0	748.8	736.3	723.8
155°	790.6	770.7	768.3	759.1	749.7
157.5°	803.0	789.2	786.9	778.0	768.9
160°	808.7	797.7	796.0	788.9	781.9
162.5°	814.6	806.8	805.4	800.2	794.9
165°	823.3	819.7	818.5	813.7	809.0
167.5°	830.0	827.0	826.5	824.2	822.0
170°	835.7	835.6	835.0	832.7	830.5
172.5°	836.1	836.1	836.0	835.5	835.0
175°	839.4	841.2	841.2	841.2	841.2
177.5°	839.9	841.2	841.2	841.2	841.2
180°	841.2	841.2	841.2	841.2	841.2



TEST NUMBER: P936059  
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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	12.08	12.84	13.13	13.90	15.33	14.87	15.63	15.93	16.69	18.13
	3H	12.55	13.23	13.61	14.29	15.75	16.20	16.88	17.27	17.95	19.41
	4H	12.73	13.38	13.81	14.45	15.91	16.63	17.28	17.71	18.35	19.81
	6H	12.85	13.44	13.93	14.51	15.99	16.91	17.50	17.99	18.57	20.05
	8H	12.84	13.41	13.94	14.50	15.97	16.97	17.54	18.06	18.63	20.10
	12H	12.81	13.35	13.91	14.43	15.93	17.00	17.54	18.10	18.62	20.12
4H	2H	13.09	13.73	14.17	14.80	16.27	15.27	15.92	16.36	16.99	18.45
	3H	14.10	14.64	15.20	15.74	17.22	16.76	17.30	17.85	18.39	19.87
	4H	14.38	14.87	15.47	15.96	17.46	17.27	17.77	18.37	18.86	20.35
	6H	14.50	14.92	15.60	16.03	17.52	17.63	18.05	18.73	19.16	20.65
	8H	14.50	14.89	15.61	16.00	17.51	17.73	18.12	18.83	19.22	20.73
	12H	14.46	14.82	15.58	15.94	17.45	17.77	18.13	18.90	19.25	20.76
8H	4H	14.82	15.21	15.92	16.32	17.82	17.39	17.79	18.50	18.89	20.40
	6H	15.07	15.40	16.20	16.55	18.05	17.82	18.14	18.94	19.29	20.79
	8H	15.12	15.40	16.25	16.53	18.05	17.96	18.25	19.10	19.37	20.90
	12H	15.10	15.35	16.23	16.47	18.03	18.05	18.30	19.19	19.42	20.98
12H	4H	14.82	15.17	15.94	16.29	17.80	17.35	17.71	18.47	18.83	20.34
	6H	15.13	15.42	16.27	16.55	18.07	17.81	18.10	18.95	19.22	20.75
	8H	15.19	15.45	16.33	16.57	18.13	17.96	18.22	19.10	19.34	20.90