

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: P935634

Luminaire Tested: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

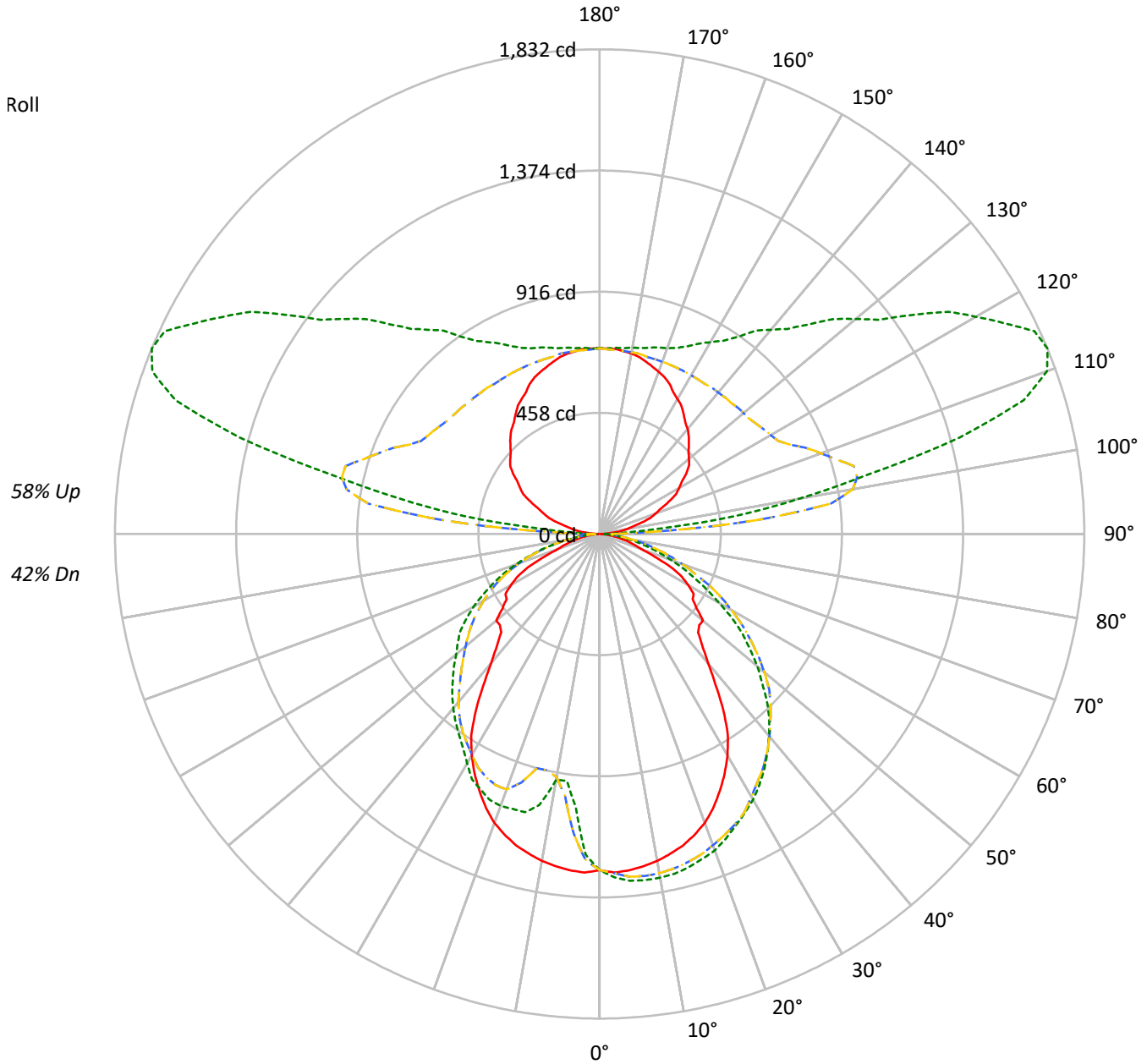
Test Method: LM-79-2019  
Report Number: P935634  
REPORT IS A COMBINATION OF REPORTS P933762 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7845.7 lumens  
Efficiency: N/A  
Efficacy: 121.8 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: General Diffuse  
  
Input Watts (W): 64.4  
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

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### 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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

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

	0°	90°	180°	270°
0°	11787	11787	11787	11787
5°	11863	11900	11863	9357
10°	11771	11721	11771	8380
15°	11629	11467	11629	9575
20°	11373	11167	11373	9596
25°	10862	10728	10862	9392
30°	10206	10364	10206	8946
35°	9085	9903	9085	8455
40°	7558	9360	7558	8084
45°	6739	8726	6739	7658
50°	7144	7968	7144	7231
55°	6703	7153	6703	6983
60°	6884	6074	6884	6395
65°	6212	5021	6212	5613
70°	4273	4003	4273	4705
75°	3706	2958	3706	3543
80°	2925	1956	2925	2130
85°	1590	1034	1590	879

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10349 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.7	1.5
10°-20°	325.6	4.1
20°-30°	503.3	6.4
30°-40°	600.8	7.7
40°-50°	604.4	7.7
50°-60°	525.9	6.7
60°-70°	372.8	4.8
70°-80°	197.3	2.5
80°-90°	51.8	0.7
90°-100°	342.1	4.4
100°-110°	899.3	11.5
110°-120°	932.5	11.9
120°-130°	748.0	9.5
130°-140°	586.9	7.5
140°-150°	450.5	5.7
150°-160°	324.4	4.1
160°-170°	198.5	2.5
170°-180°	67.1	0.9
0°-30°	943.6	12.0
0°-40°	1544.4	19.7
0°-60°	2674.6	34.1
0°-90°	3296.5	42.0
90°-120°	2173.9	27.7
90°-150°	3959.2	50.5
90°-180°	4549.0	58.0
0°-180°	7845.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1270	1270	1270	1270	1270	
5°	1276	1316	1276	1035	1276	121
15°	1219	1304	1219	1089	1219	343
25°	1073	1216	1073	1065	1073	493
35°	816	1085	816	927	816	505
45°	526	894	526	785	526	422
55°	429	660	429	644	429	394
65°	298	398	298	445	298	285
75°	113	189	113	226	113	119
85°	19	48	19	41	19	26
90°	5	18	5	18	5	5
95°	45	207	45	207	45	50
105°	162	1408	162	1408	162	172
115°	288	1813	288	1813	288	284
125°	400	1444	400	1444	400	355
135°	477	1120	477	1120	477	369
145°	553	909	553	909	553	347
155°	626	783	626	783	626	287
165°	675	729	675	729	675	190
175°	702	706	702	706	702	67
180°	702	702	702	702	702	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1281.1	1281.1	1288.4	1290.8	1290.8	1287.1	1283.6	1287.1	1298.0	1301.6	1300.4
5°	1276.4	1286.0	1299.2	1301.6	1304.0	1302.8	1300.4	1302.8	1314.8	1317.2	1318.4
7.5°	1266.8	1284.8	1301.6	1305.2	1308.8	1305.2	1304.0	1306.4	1318.4	1320.8	1320.8
10°	1254.8	1280.0	1299.2	1301.6	1305.2	1301.6	1301.6	1306.4	1318.4	1320.8	1322.1
12.5°	1237.9	1272.8	1290.8	1293.2	1298.0	1296.8	1295.6	1300.4	1312.4	1314.8	1314.8
15°	1218.6	1259.6	1276.4	1278.8	1287.1	1284.8	1284.8	1289.6	1302.8	1306.4	1305.2
17.5°	1192.3	1242.7	1261.9	1265.6	1271.6	1270.3	1271.6	1276.4	1288.4	1290.8	1292.0
20°	1162.2	1219.9	1242.7	1246.3	1252.3	1252.3	1252.3	1258.3	1270.3	1275.1	1275.1
22.5°	1121.3	1195.8	1219.9	1222.3	1229.5	1229.5	1231.9	1240.3	1251.1	1252.3	1252.3
25°	1073.3	1169.4	1189.8	1197.1	1204.3	1207.8	1211.5	1216.3	1219.9	1218.6	1219.9
27.5°	1022.8	1135.8	1162.2	1167.0	1176.6	1180.3	1185.0	1186.3	1187.4	1191.0	1188.6
30°	966.3	1088.8	1128.5	1133.3	1149.0	1151.3	1146.6	1149.0	1155.0	1157.4	1159.8
32.5°	902.5	1019.2	1093.7	1104.5	1118.9	1111.7	1110.5	1114.1	1123.8	1123.8	1126.1
35°	816.0	965.1	1061.3	1070.8	1081.6	1073.3	1078.0	1079.3	1085.3	1088.8	1087.7
37.5°	721.1	918.2	1027.6	1034.8	1043.2	1032.3	1039.6	1043.2	1048.0	1045.6	1045.6
40°	637.0	844.9	988.0	992.7	1000.0	991.5	998.7	1001.1	1003.5	1001.1	1000.0
42.5°	574.5	764.4	945.8	951.8	947.0	953.0	955.5	960.3	956.7	951.8	951.8
45°	526.4	742.7	900.2	907.4	900.2	909.8	913.4	913.4	902.5	900.2	899.0
47.5°	510.8	699.5	854.5	854.5	850.9	862.9	869.0	860.5	849.7	846.1	846.1
50°	509.6	651.4	792.0	787.2	804.0	818.5	812.5	804.0	795.7	782.4	782.4
52.5°	462.7	592.5	711.5	729.5	756.0	764.4	754.7	746.4	731.9	725.9	721.1
55°	429.1	531.2	638.2	674.2	701.9	712.7	694.7	686.2	664.6	661.0	658.6
57.5°	421.9	442.3	570.9	616.6	650.2	649.0	638.2	622.6	604.5	600.9	599.7
60°	387.0	319.6	498.8	552.9	587.7	584.1	574.5	560.1	543.2	540.9	538.4
62.5°	350.9	232.0	417.1	478.4	527.6	526.4	518.0	496.4	484.4	478.4	473.6
65°	298.1	194.7	296.8	397.8	468.7	471.1	453.1	437.4	424.3	417.1	415.8
67.5°	227.1	158.6	200.7	331.7	412.2	409.8	387.0	379.8	362.9	359.3	352.1
70°	168.3	105.8	139.4	269.3	356.9	350.9	332.9	324.5	308.9	300.5	295.6
72.5°	139.4	85.3	102.2	209.1	300.5	293.3	277.6	268.0	254.8	247.6	242.8
75°	113.0	90.1	78.1	155.0	244.0	239.1	224.8	215.1	204.3	194.7	195.9
77.5°	83.0	84.1	62.5	114.2	193.5	186.3	177.8	165.8	161.0	151.5	151.5
80°	62.5	66.1	46.8	78.1	139.4	139.4	132.2	123.8	115.3	110.6	110.6
82.5°	42.0	42.0	34.8	49.3	95.0	91.3	86.5	84.1	79.3	77.0	77.0
85°	19.2	24.0	21.6	30.0	51.7	54.1	54.1	51.7	50.5	48.0	49.3
87.5°	6.0	10.8	13.2	16.8	26.5	27.7	28.8	28.8	28.8	30.0	30.0
90°	4.7	8.5	12.3	13.2	20.7	30.7	35.7	31.7	23.8	17.9	17.9
92.5°	18.8	50.8	82.9	90.9	127.8	177.0	201.6	176.7	126.9	89.5	86.0
95°	45.2	103.8	162.5	177.1	314.5	497.6	589.2	525.8	399.0	303.8	293.0
97.5°	78.1	129.8	181.6	194.5	423.5	728.9	881.6	841.5	761.4	701.2	680.8
100°	103.6	150.5	197.4	209.1	463.3	802.1	971.6	974.5	980.4	984.8	960.3
102.5°	125.3	169.0	212.8	223.7	481.5	825.2	997.1	1048.2	1150.3	1226.9	1206.0
105°	162.0	199.1	236.1	245.4	495.0	827.9	994.2	1108.8	1337.7	1509.5	1498.2
107.5°	199.7	234.2	268.8	277.4	497.6	791.0	937.7	1097.5	1416.9	1656.4	1659.1
110°	225.1	256.3	287.4	295.3	493.8	758.4	890.6	1069.2	1426.3	1694.1	1705.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	250.1	279.8	309.5	316.9	493.8	729.8	847.8	1030.5	1396.0	1670.1	1688.1
115°	287.7	315.2	342.7	349.5	498.5	697.1	796.4	972.4	1324.5	1588.6	1613.5
117.5°	325.0	349.9	374.9	381.0	507.8	676.7	761.1	919.9	1237.7	1476.0	1503.6
120°	346.7	370.1	393.6	399.4	515.3	669.8	747.0	892.2	1182.4	1400.2	1427.1
122.5°	367.9	391.5	415.2	421.1	526.1	666.1	736.2	866.9	1128.3	1324.3	1350.9
125°	400.3	421.9	443.4	448.8	540.7	663.1	724.3	835.4	1057.5	1224.0	1248.5
127.5°	426.7	448.5	470.2	475.6	555.2	661.4	714.4	809.8	1000.5	1143.5	1164.2
130°	440.8	464.3	487.7	493.6	566.0	662.5	710.7	795.6	965.3	1092.7	1111.7
132.5°	455.5	478.9	502.4	508.2	574.6	663.1	707.4	783.4	935.4	1049.4	1066.4
135°	477.1	498.5	519.8	525.1	584.0	662.5	701.8	765.5	892.7	988.1	1002.9
137.5°	499.2	520.3	541.5	546.8	598.1	666.6	700.8	754.5	862.2	942.8	954.8
140°	517.6	537.0	556.5	561.4	606.8	667.3	697.5	744.0	837.0	906.6	917.9
142.5°	531.7	549.7	567.7	572.3	614.0	669.7	697.5	738.4	819.9	881.2	890.8
145°	553.4	569.1	584.8	588.7	623.4	669.7	692.8	726.2	792.9	843.1	850.4
147.5°	575.1	590.4	605.6	609.5	637.2	674.2	692.8	719.1	771.6	811.0	817.1
150°	589.2	603.0	616.8	620.3	644.5	676.7	692.8	715.0	759.4	792.7	797.6
152.5°	603.8	614.3	624.7	627.4	649.2	678.2	692.8	711.7	749.6	778.0	781.7
155°	625.5	633.2	640.9	642.8	659.5	681.7	692.8	707.9	738.0	760.6	763.1
157.5°	641.5	649.0	656.5	658.4	669.9	685.1	692.8	704.5	728.0	745.5	747.3
160°	652.3	658.1	664.0	665.5	674.6	686.7	692.8	702.8	722.9	738.0	739.0
162.5°	663.1	667.5	671.9	673.0	679.6	688.4	692.8	701.2	718.2	731.0	731.9
165°	674.9	678.9	682.9	683.9	686.9	690.8	692.8	698.9	711.0	720.1	721.1
167.5°	685.8	687.6	689.5	690.0	692.5	695.9	697.5	701.5	709.4	715.4	715.9
170°	692.8	694.7	696.6	697.1	697.2	697.4	697.5	701.5	709.4	715.4	715.4
172.5°	696.6	697.0	697.4	697.5	697.5	697.5	697.5	700.6	706.9	711.6	711.2
175°	701.8	701.8	701.8	701.8	700.3	698.4	697.5	699.5	703.4	706.4	706.4
177.5°	701.8	701.8	701.8	701.8	700.7	699.1	698.4	700.0	703.1	705.5	705.1
180°	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1302.8	1299.2	1302.8	1300.4	1301.6	1298.0	1287.1	1283.6	1287.1	1290.8	1290.8
5°	1318.4	1316.1	1318.4	1318.4	1317.2	1314.8	1302.8	1300.4	1302.8	1304.0	1301.6
7.5°	1323.2	1319.6	1323.2	1320.8	1320.8	1318.4	1306.4	1304.0	1305.2	1308.8	1305.2
10°	1323.2	1319.6	1323.2	1322.1	1320.8	1318.4	1306.4	1301.6	1301.6	1305.2	1301.6
12.5°	1317.2	1314.8	1317.2	1314.8	1314.8	1312.4	1300.4	1295.6	1296.8	1298.0	1293.2
15°	1307.6	1304.0	1307.6	1305.2	1306.4	1302.8	1289.6	1284.8	1284.8	1287.1	1278.8
17.5°	1293.2	1288.4	1293.2	1292.0	1290.8	1288.4	1276.4	1271.6	1270.3	1271.6	1265.6
20°	1276.4	1272.8	1276.4	1275.1	1275.1	1270.3	1258.3	1252.3	1252.3	1252.3	1246.3
22.5°	1249.9	1246.3	1249.9	1252.3	1252.3	1251.1	1240.3	1231.9	1229.5	1229.5	1222.3
25°	1219.9	1216.3	1219.9	1219.9	1218.6	1219.9	1216.3	1211.5	1207.8	1204.3	1197.1
27.5°	1191.0	1188.6	1191.0	1188.6	1191.0	1187.4	1186.3	1185.0	1180.3	1176.6	1167.0
30°	1162.2	1159.8	1162.2	1159.8	1157.4	1155.0	1149.0	1146.6	1151.3	1149.0	1133.3
32.5°	1126.1	1123.8	1126.1	1126.1	1123.8	1123.8	1114.1	1110.5	1111.7	1118.9	1104.5
35°	1088.8	1085.3	1088.8	1087.7	1088.8	1085.3	1079.3	1078.0	1073.3	1081.6	1070.8
37.5°	1045.6	1042.0	1045.6	1045.6	1045.6	1048.0	1043.2	1039.6	1032.3	1043.2	1034.8
40°	1001.1	996.3	1001.1	1000.0	1001.1	1003.5	1001.1	998.7	991.5	1000.0	992.7
42.5°	950.7	949.5	950.7	951.8	951.8	956.7	960.3	955.5	953.0	947.0	951.8
45°	896.5	894.2	896.5	899.0	900.2	902.5	913.4	913.4	909.8	900.2	907.4
47.5°	838.9	832.9	838.9	846.1	846.1	849.7	860.5	869.0	862.9	850.9	854.5
50°	777.6	778.8	777.6	782.4	782.4	795.7	804.0	812.5	818.5	804.0	787.2
52.5°	717.5	716.3	717.5	721.1	725.9	731.9	746.4	754.7	764.4	756.0	729.5
55°	657.4	659.9	657.4	658.6	661.0	664.6	686.2	694.7	712.7	701.9	674.2
57.5°	597.4	593.7	597.4	599.7	600.9	604.5	622.6	638.2	649.0	650.2	616.6
60°	527.6	522.8	527.6	538.4	540.9	543.2	560.1	574.5	584.1	587.7	552.9
62.5°	466.3	457.9	466.3	473.6	478.4	484.4	496.4	518.0	526.4	527.6	478.4
65°	401.4	397.8	401.4	415.8	417.1	424.3	437.4	453.1	471.1	468.7	397.8
67.5°	342.6	342.6	342.6	352.1	359.3	362.9	379.8	387.0	409.8	412.2	331.7
70°	288.4	287.3	288.4	295.6	300.5	308.9	324.5	332.9	350.9	356.9	269.3
72.5°	236.8	235.6	236.8	242.8	247.6	254.8	268.0	277.6	293.3	300.5	209.1
75°	191.1	188.7	191.1	195.9	194.7	204.3	215.1	224.8	239.1	244.0	155.0
77.5°	146.6	146.6	146.6	151.5	151.5	161.0	165.8	177.8	186.3	193.5	114.2
80°	109.3	108.2	109.3	110.6	110.6	115.3	123.8	132.2	139.4	139.4	78.1
82.5°	77.0	74.5	77.0	77.0	77.0	79.3	84.1	86.5	91.3	95.0	49.3
85°	48.0	48.0	48.0	49.3	48.0	50.5	51.7	54.1	54.1	51.7	30.0
87.5°	31.3	30.0	31.3	30.0	30.0	28.8	28.8	28.8	27.7	26.5	16.8
90°	17.9	17.9	17.9	17.9	17.9	23.8	31.7	35.7	30.7	20.7	13.2
92.5°	71.7	57.5	71.7	86.0	89.5	126.9	176.7	201.6	177.0	127.8	90.9
95°	249.9	206.8	249.9	293.0	303.8	399.0	525.8	589.2	497.6	314.5	177.1
97.5°	598.7	516.7	598.7	680.8	701.2	761.4	841.5	881.6	728.9	423.5	194.5
100°	862.6	764.8	862.6	960.3	984.8	980.4	974.5	971.6	802.1	463.3	209.1
102.5°	1122.2	1038.5	1122.2	1206.0	1226.9	1150.3	1048.2	997.1	825.2	481.5	223.7
105°	1453.2	1408.2	1453.2	1498.2	1509.5	1337.7	1108.8	994.2	827.9	495.0	245.4
107.5°	1670.0	1680.9	1670.0	1659.1	1656.4	1416.9	1097.5	937.7	791.0	497.6	277.4
110°	1752.7	1799.5	1752.7	1705.8	1694.1	1426.3	1069.2	890.6	758.4	493.8	295.3





TEST NUMBER: P935634

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1760.1	1832.1	1760.1	1688.1	1670.1	1396.0	1030.5	847.8	729.8	493.8	316.9
115°	1713.4	1813.3	1713.4	1613.5	1588.6	1324.5	972.4	796.4	697.1	498.5	349.5
117.5°	1614.4	1725.1	1614.4	1503.6	1476.0	1237.7	919.9	761.1	676.7	507.8	381.0
120°	1534.6	1642.3	1534.6	1427.1	1400.2	1182.4	892.2	747.0	669.8	515.3	399.4
122.5°	1457.0	1563.1	1457.0	1350.9	1324.3	1128.3	866.9	736.2	666.1	526.1	421.1
125°	1346.2	1444.0	1346.2	1248.5	1224.0	1057.5	835.4	724.3	663.1	540.7	448.8
127.5°	1246.6	1329.1	1246.6	1164.2	1143.5	1000.5	809.8	714.4	661.4	555.2	475.6
130°	1187.9	1264.1	1187.9	1111.7	1092.7	965.3	795.6	710.7	662.5	566.0	493.6
132.5°	1134.6	1202.8	1134.6	1066.4	1049.4	935.4	783.4	707.4	663.1	574.6	508.2
135°	1061.6	1120.4	1061.6	1002.9	988.1	892.7	765.5	701.8	662.5	584.0	525.1
137.5°	1003.1	1051.2	1003.1	954.8	942.8	862.2	754.5	700.8	666.6	598.1	546.8
140°	962.9	1007.9	962.9	917.9	906.6	837.0	744.0	697.5	667.3	606.8	561.4
142.5°	929.6	968.3	929.6	890.8	881.2	819.9	738.4	697.5	669.7	614.0	572.3
145°	879.7	909.0	879.7	850.4	843.1	792.9	726.2	692.8	669.7	623.4	588.7
147.5°	841.3	865.6	841.3	817.1	811.0	771.6	719.1	692.8	674.2	637.2	609.5
150°	817.3	837.0	817.3	797.6	792.7	759.4	715.0	692.8	676.7	644.5	620.3
152.5°	796.6	811.5	796.6	781.7	778.0	749.6	711.7	692.8	678.2	649.2	627.4
155°	772.9	782.7	772.9	763.1	760.6	738.0	707.9	692.8	681.7	659.5	642.8
157.5°	754.2	761.1	754.2	747.3	745.5	728.0	704.5	692.8	685.1	669.9	658.4
160°	743.0	747.0	743.0	739.0	738.0	722.9	702.8	692.8	686.7	674.6	665.5
162.5°	735.7	739.4	735.7	731.9	731.0	718.2	701.2	692.8	688.4	679.6	673.0
165°	725.1	729.1	725.1	721.1	720.1	711.0	698.9	692.8	690.8	686.9	683.9
167.5°	717.5	719.2	717.5	715.9	715.4	709.4	701.5	697.5	695.9	692.5	690.0
170°	715.4	715.4	715.4	715.4	715.4	709.4	701.5	697.5	697.4	697.2	697.1
172.5°	709.8	708.3	709.8	711.2	711.6	706.9	700.6	697.5	697.5	697.5	697.5
175°	706.4	706.4	706.4	706.4	706.4	703.4	699.5	697.5	698.4	700.3	701.8
177.5°	703.4	701.8	703.4	705.1	705.5	703.1	700.0	698.4	699.1	700.7	701.8
180°	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8



TEST NUMBER: P935634

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1288.4	1281.1	1281.1	1269.1	1264.3	1260.8	1254.8	1236.7	1231.9	1227.1	1234.3
5°	1299.2	1286.0	1276.4	1254.8	1236.7	1229.5	1206.6	1163.4	1134.5	1112.9	1100.9
7.5°	1301.6	1284.8	1266.8	1233.1	1189.8	1170.6	1100.9	1021.6	1000.0	980.7	968.7
10°	1299.2	1280.0	1254.8	1204.3	1102.1	1068.5	998.7	947.0	933.8	930.2	933.8
12.5°	1290.8	1272.8	1237.9	1153.8	1010.8	988.0	947.0	917.0	914.6	920.6	953.0
15°	1276.4	1259.6	1218.6	1086.5	960.3	943.5	914.6	903.8	917.0	959.0	1056.5
17.5°	1261.9	1242.7	1192.3	1020.3	921.8	909.8	889.4	911.0	985.5	1042.0	1074.5
20°	1242.7	1219.9	1162.2	972.3	894.2	883.3	873.7	971.1	1027.6	1048.0	1066.0
22.5°	1219.9	1195.8	1121.3	938.7	865.3	856.9	862.9	1004.8	1027.6	1042.0	1057.6
25°	1189.8	1169.4	1073.3	912.2	842.5	832.9	855.7	1001.1	1014.3	1018.0	1049.2
27.5°	1162.2	1135.8	1022.8	888.2	814.9	811.2	861.7	985.5	995.1	998.7	1032.3
30°	1128.5	1088.8	966.3	862.9	786.0	784.8	862.9	966.3	963.9	973.5	1007.2
32.5°	1093.7	1019.2	902.5	831.7	758.4	757.2	854.5	937.5	935.0	948.3	973.5
35°	1061.3	965.1	816.0	795.7	723.5	724.7	834.0	903.8	905.0	917.0	932.7
37.5°	1027.6	918.2	721.1	756.0	689.9	689.9	806.4	872.5	870.2	873.7	895.4
40°	988.0	844.9	637.0	704.2	658.6	655.0	772.8	838.9	830.5	829.3	859.3
42.5°	945.8	764.4	574.5	635.7	622.6	617.7	731.9	798.0	782.4	786.0	824.5
45°	900.2	742.7	526.4	537.2	585.3	581.7	687.4	751.2	740.4	750.0	789.7
47.5°	854.5	699.5	510.8	445.9	545.6	544.4	638.2	705.5	699.5	709.1	751.2
50°	792.0	651.4	509.6	382.2	501.2	505.9	579.3	661.0	661.0	669.4	713.9
52.5°	711.5	592.5	462.7	346.1	449.5	463.9	527.6	622.6	624.9	633.4	673.0
55°	638.2	531.2	429.1	318.5	388.2	419.4	477.1	582.9	587.7	596.1	632.2
57.5°	570.9	442.3	421.9	286.1	331.7	361.8	432.6	544.4	546.9	554.1	588.9
60°	498.8	319.6	387.0	251.2	282.4	305.3	391.8	498.8	507.2	511.9	542.1
62.5°	417.1	232.0	350.9	227.1	258.4	263.2	358.1	455.5	466.3	469.9	487.9
65°	296.8	194.7	298.1	206.8	233.1	234.3	322.1	411.1	420.6	426.6	439.9
67.5°	200.7	158.6	227.1	187.5	213.9	215.1	287.3	359.3	372.6	377.4	385.8
70°	139.4	105.8	168.3	167.1	192.3	194.7	250.0	312.5	324.5	328.1	332.9
72.5°	102.2	85.3	139.4	150.3	169.5	171.8	211.5	259.6	271.6	275.3	277.6
75°	78.1	90.1	113.0	131.0	144.2	145.5	173.1	211.5	220.0	222.3	223.5
77.5°	62.5	84.1	83.0	105.8	117.8	115.3	135.8	163.5	170.6	170.6	170.6
80°	46.8	66.1	62.5	75.7	86.5	84.1	97.3	116.6	119.0	121.3	120.2
82.5°	34.8	42.0	42.0	48.0	57.7	55.3	64.9	75.7	75.7	75.7	78.1
85°	21.6	24.0	19.2	25.2	32.5	31.3	36.0	40.8	42.0	42.0	39.7
87.5°	13.2	10.8	6.0	9.6	14.5	14.5	16.8	18.0	16.8	16.8	16.8
90°	12.3	8.5	4.7	8.5	12.3	13.2	20.7	30.7	35.7	31.7	23.8
92.5°	82.9	50.8	18.8	50.8	82.9	90.9	127.8	177.0	201.6	176.7	126.9
95°	162.5	103.8	45.2	103.8	162.5	177.1	314.5	497.6	589.2	525.8	399.0
97.5°	181.6	129.8	78.1	129.8	181.6	194.5	423.5	728.9	881.6	841.5	761.4
100°	197.4	150.5	103.6	150.5	197.4	209.1	463.3	802.1	971.6	974.5	980.4
102.5°	212.8	169.0	125.3	169.0	212.8	223.7	481.5	825.2	997.1	1048.2	1150.3
105°	236.1	199.1	162.0	199.1	236.1	245.4	495.0	827.9	994.2	1108.8	1337.7
107.5°	268.8	234.2	199.7	234.2	268.8	277.4	497.6	791.0	937.7	1097.5	1416.9
110°	287.4	256.3	225.1	256.3	287.4	295.3	493.8	758.4	890.6	1069.2	1426.3



TEST NUMBER: P935634

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	309.5	279.8	250.1	279.8	309.5	316.9	493.8	729.8	847.8	1030.5	1396.0
115°	342.7	315.2	287.7	315.2	342.7	349.5	498.5	697.1	796.4	972.4	1324.5
117.5°	374.9	349.9	325.0	349.9	374.9	381.0	507.8	676.7	761.1	919.9	1237.7
120°	393.6	370.1	346.7	370.1	393.6	399.4	515.3	669.8	747.0	892.2	1182.4
122.5°	415.2	391.5	367.9	391.5	415.2	421.1	526.1	666.1	736.2	866.9	1128.3
125°	443.4	421.9	400.3	421.9	443.4	448.8	540.7	663.1	724.3	835.4	1057.5
127.5°	470.2	448.5	426.7	448.5	470.2	475.6	555.2	661.4	714.4	809.8	1000.5
130°	487.7	464.3	440.8	464.3	487.7	493.6	566.0	662.5	710.7	795.6	965.3
132.5°	502.4	478.9	455.5	478.9	502.4	508.2	574.6	663.1	707.4	783.4	935.4
135°	519.8	498.5	477.1	498.5	519.8	525.1	584.0	662.5	701.8	765.5	892.7
137.5°	541.5	520.3	499.2	520.3	541.5	546.8	598.1	666.6	700.8	754.5	862.2
140°	556.5	537.0	517.6	537.0	556.5	561.4	606.8	667.3	697.5	744.0	837.0
142.5°	567.7	549.7	531.7	549.7	567.7	572.3	614.0	669.7	697.5	738.4	819.9
145°	584.8	569.1	553.4	569.1	584.8	588.7	623.4	669.7	692.8	726.2	792.9
147.5°	605.6	590.4	575.1	590.4	605.6	609.5	637.2	674.2	692.8	719.1	771.6
150°	616.8	603.0	589.2	603.0	616.8	620.3	644.5	676.7	692.8	715.0	759.4
152.5°	624.7	614.3	603.8	614.3	624.7	627.4	649.2	678.2	692.8	711.7	749.6
155°	640.9	633.2	625.5	633.2	640.9	642.8	659.5	681.7	692.8	707.9	738.0
157.5°	656.5	649.0	641.5	649.0	656.5	658.4	669.9	685.1	692.8	704.5	728.0
160°	664.0	658.1	652.3	658.1	664.0	665.5	674.6	686.7	692.8	702.8	722.9
162.5°	671.9	667.5	663.1	667.5	671.9	673.0	679.6	688.4	692.8	701.2	718.2
165°	682.9	678.9	674.9	678.9	682.9	683.9	686.9	690.8	692.8	698.9	711.0
167.5°	689.5	687.6	685.8	687.6	689.5	690.0	692.5	695.9	697.5	701.5	709.4
170°	696.6	694.7	692.8	694.7	696.6	697.1	697.2	697.4	697.5	701.5	709.4
172.5°	697.4	697.0	696.6	697.0	697.4	697.5	697.5	697.5	697.5	700.6	706.9
175°	701.8	701.8	701.8	701.8	701.8	701.8	700.3	698.4	697.5	699.5	703.4
177.5°	701.8	701.8	701.8	701.8	701.8	701.8	700.7	699.1	698.4	700.0	703.1
180°	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8



TEST NUMBER: P935634

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1225.9	1222.3	1227.1	1213.8	1227.1	1222.3	1225.9	1234.3	1227.1	1231.9	1236.7
5°	1075.6	1069.6	1050.4	1034.8	1050.4	1069.6	1075.6	1100.9	1112.9	1134.5	1163.4
7.5°	961.5	956.7	951.8	942.2	951.8	956.7	961.5	968.7	980.7	1000.0	1021.6
10°	936.2	937.5	944.7	943.5	944.7	937.5	936.2	933.8	930.2	933.8	947.0
12.5°	1001.1	1012.0	1051.6	1049.2	1051.6	1012.0	1001.1	953.0	920.6	914.6	917.0
15°	1075.6	1079.3	1087.7	1088.8	1087.7	1079.3	1075.6	1056.5	959.0	917.0	903.8
17.5°	1082.8	1084.1	1090.1	1090.1	1090.1	1084.1	1082.8	1074.5	1042.0	985.5	911.0
20°	1076.8	1079.3	1091.3	1093.7	1091.3	1079.3	1076.8	1066.0	1048.0	1027.6	971.1
22.5°	1074.5	1079.3	1088.8	1087.7	1088.8	1079.3	1074.5	1057.6	1042.0	1027.6	1004.8
25°	1062.5	1062.5	1063.6	1064.8	1063.6	1062.5	1062.5	1049.2	1018.0	1014.3	1001.1
27.5°	1037.2	1039.6	1046.8	1045.6	1046.8	1039.6	1037.2	1032.3	998.7	995.1	985.5
30°	1014.3	1012.0	1006.0	1001.1	1006.0	1012.0	1014.3	1007.2	973.5	963.9	966.3
32.5°	975.9	969.9	963.9	960.3	963.9	969.9	975.9	973.5	948.3	935.0	937.5
35°	930.2	931.5	930.2	926.6	930.2	931.5	930.2	932.7	917.0	905.0	903.8
37.5°	897.8	900.2	899.0	894.2	899.0	900.2	897.8	895.4	873.7	870.2	872.5
40°	864.2	865.3	864.2	860.5	864.2	865.3	864.2	859.3	829.3	830.5	838.9
42.5°	831.7	830.5	826.9	824.5	826.9	830.5	831.7	824.5	786.0	782.4	798.0
45°	794.4	795.7	788.4	784.8	788.4	795.7	794.4	789.7	750.0	740.4	751.2
47.5°	757.2	757.2	751.2	747.5	751.2	757.2	757.2	751.2	709.1	699.5	705.5
50°	717.5	716.3	707.9	706.7	707.9	716.3	717.5	713.9	669.4	661.0	661.0
52.5°	671.9	671.9	673.0	675.4	673.0	671.9	671.9	673.0	633.4	624.9	622.6
55°	632.2	633.4	641.7	644.2	641.7	633.4	632.2	632.2	596.1	587.7	582.9
57.5°	591.3	591.3	597.4	597.4	597.4	591.3	591.3	588.9	554.1	546.9	544.4
60°	544.4	546.9	551.6	550.4	551.6	546.9	544.4	542.1	511.9	507.2	498.8
62.5°	495.1	497.6	498.8	496.4	498.8	497.6	495.1	487.9	469.9	466.3	455.5
65°	443.4	445.9	447.1	444.7	447.1	445.9	443.4	439.9	426.6	420.6	411.1
67.5°	390.6	389.4	388.2	393.0	388.2	389.4	390.6	385.8	377.4	372.6	359.3
70°	336.5	336.5	335.3	337.7	335.3	336.5	336.5	332.9	328.1	324.5	312.5
72.5°	278.8	277.6	282.4	278.8	282.4	277.6	278.8	277.6	275.3	271.6	259.6
75°	222.3	224.8	222.3	226.0	222.3	224.8	222.3	223.5	222.3	220.0	211.5
77.5°	169.5	171.8	169.5	169.5	169.5	171.8	169.5	170.6	170.6	170.6	163.5
80°	120.2	119.0	119.0	117.8	119.0	119.0	120.2	120.2	121.3	119.0	116.6
82.5°	77.0	75.7	75.7	78.1	75.7	75.7	77.0	78.1	75.7	75.7	75.7
85°	42.0	43.3	40.8	40.8	40.8	43.3	42.0	39.7	42.0	42.0	40.8
87.5°	15.6	14.5	14.5	14.5	14.5	14.5	15.6	16.8	16.8	16.8	18.0
90°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	23.8	31.7	35.7	30.7
92.5°	89.5	86.0	71.7	57.5	71.7	86.0	89.5	126.9	176.7	201.6	177.0
95°	303.8	293.0	249.9	206.8	249.9	293.0	303.8	399.0	525.8	589.2	497.6
97.5°	701.2	680.8	598.7	516.7	598.7	680.8	701.2	761.4	841.5	881.6	728.9
100°	984.8	960.3	862.6	764.8	862.6	960.3	984.8	980.4	974.5	971.6	802.1
102.5°	1226.9	1206.0	1122.2	1038.5	1122.2	1206.0	1226.9	1150.3	1048.2	997.1	825.2
105°	1509.5	1498.2	1453.2	1408.2	1453.2	1498.2	1509.5	1337.7	1108.8	994.2	827.9
107.5°	1656.4	1659.1	1670.0	1680.9	1670.0	1659.1	1656.4	1416.9	1097.5	937.7	791.0
110°	1694.1	1705.8	1752.7	1799.5	1752.7	1705.8	1694.1	1426.3	1069.2	890.6	758.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1670.1	1688.1	1760.1	1832.1	1760.1	1688.1	1670.1	1396.0	1030.5	847.8	729.8
115°	1588.6	1613.5	1713.4	1813.3	1713.4	1613.5	1588.6	1324.5	972.4	796.4	697.1
117.5°	1476.0	1503.6	1614.4	1725.1	1614.4	1503.6	1476.0	1237.7	919.9	761.1	676.7
120°	1400.2	1427.1	1534.6	1642.3	1534.6	1427.1	1400.2	1182.4	892.2	747.0	669.8
122.5°	1324.3	1350.9	1457.0	1563.1	1457.0	1350.9	1324.3	1128.3	866.9	736.2	666.1
125°	1224.0	1248.5	1346.2	1444.0	1346.2	1248.5	1224.0	1057.5	835.4	724.3	663.1
127.5°	1143.5	1164.2	1246.6	1329.1	1246.6	1164.2	1143.5	1000.5	809.8	714.4	661.4
130°	1092.7	1111.7	1187.9	1264.1	1187.9	1111.7	1092.7	965.3	795.6	710.7	662.5
132.5°	1049.4	1066.4	1134.6	1202.8	1134.6	1066.4	1049.4	935.4	783.4	707.4	663.1
135°	988.1	1002.9	1061.6	1120.4	1061.6	1002.9	988.1	892.7	765.5	701.8	662.5
137.5°	942.8	954.8	1003.1	1051.2	1003.1	954.8	942.8	862.2	754.5	700.8	666.6
140°	906.6	917.9	962.9	1007.9	962.9	917.9	906.6	837.0	744.0	697.5	667.3
142.5°	881.2	890.8	929.6	968.3	929.6	890.8	881.2	819.9	738.4	697.5	669.7
145°	843.1	850.4	879.7	909.0	879.7	850.4	843.1	792.9	726.2	692.8	669.7
147.5°	811.0	817.1	841.3	865.6	841.3	817.1	811.0	771.6	719.1	692.8	674.2
150°	792.7	797.6	817.3	837.0	817.3	797.6	792.7	759.4	715.0	692.8	676.7
152.5°	778.0	781.7	796.6	811.5	796.6	781.7	778.0	749.6	711.7	692.8	678.2
155°	760.6	763.1	772.9	782.7	772.9	763.1	760.6	738.0	707.9	692.8	681.7
157.5°	745.5	747.3	754.2	761.1	754.2	747.3	745.5	728.0	704.5	692.8	685.1
160°	738.0	739.0	743.0	747.0	743.0	739.0	738.0	722.9	702.8	692.8	686.7
162.5°	731.0	731.9	735.7	739.4	735.7	731.9	731.0	718.2	701.2	692.8	688.4
165°	720.1	721.1	725.1	729.1	725.1	721.1	720.1	711.0	698.9	692.8	690.8
167.5°	715.4	715.9	717.5	719.2	717.5	715.9	715.4	709.4	701.5	697.5	695.9
170°	715.4	715.4	715.4	715.4	715.4	715.4	715.4	709.4	701.5	697.5	697.4
172.5°	711.6	711.2	709.8	708.3	709.8	711.2	711.6	706.9	700.6	697.5	697.5
175°	706.4	706.4	706.4	706.4	706.4	706.4	706.4	703.4	699.5	697.5	698.4
177.5°	705.5	705.1	703.4	701.8	703.4	705.1	705.5	703.1	700.0	698.4	699.1
180°	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1254.8	1260.8	1264.3	1269.1	1281.1
5°	1206.6	1229.5	1236.7	1254.8	1276.4
7.5°	1100.9	1170.6	1189.8	1233.1	1266.8
10°	998.7	1068.5	1102.1	1204.3	1254.8
12.5°	947.0	988.0	1010.8	1153.8	1237.9
15°	914.6	943.5	960.3	1086.5	1218.6
17.5°	889.4	909.8	921.8	1020.3	1192.3
20°	873.7	883.3	894.2	972.3	1162.2
22.5°	862.9	856.9	865.3	938.7	1121.3
25°	855.7	832.9	842.5	912.2	1073.3
27.5°	861.7	811.2	814.9	888.2	1022.8
30°	862.9	784.8	786.0	862.9	966.3
32.5°	854.5	757.2	758.4	831.7	902.5
35°	834.0	724.7	723.5	795.7	816.0
37.5°	806.4	689.9	689.9	756.0	721.1
40°	772.8	655.0	658.6	704.2	637.0
42.5°	731.9	617.7	622.6	635.7	574.5
45°	687.4	581.7	585.3	537.2	526.4
47.5°	638.2	544.4	545.6	445.9	510.8
50°	579.3	505.9	501.2	382.2	509.6
52.5°	527.6	463.9	449.5	346.1	462.7
55°	477.1	419.4	388.2	318.5	429.1
57.5°	432.6	361.8	331.7	286.1	421.9
60°	391.8	305.3	282.4	251.2	387.0
62.5°	358.1	263.2	258.4	227.1	350.9
65°	322.1	234.3	233.1	206.8	298.1
67.5°	287.3	215.1	213.9	187.5	227.1
70°	250.0	194.7	192.3	167.1	168.3
72.5°	211.5	171.8	169.5	150.3	139.4
75°	173.1	145.5	144.2	131.0	113.0
77.5°	135.8	115.3	117.8	105.8	83.0
80°	97.3	84.1	86.5	75.7	62.5
82.5°	64.9	55.3	57.7	48.0	42.0
85°	36.0	31.3	32.5	25.2	19.2
87.5°	16.8	14.5	14.5	9.6	6.0
90°	20.7	13.2	12.3	8.5	4.7
92.5°	127.8	90.9	82.9	50.8	18.8
95°	314.5	177.1	162.5	103.8	45.2
97.5°	423.5	194.5	181.6	129.8	78.1
100°	463.3	209.1	197.4	150.5	103.6
102.5°	481.5	223.7	212.8	169.0	125.3
105°	495.0	245.4	236.1	199.1	162.0
107.5°	497.6	277.4	268.8	234.2	199.7
110°	493.8	295.3	287.4	256.3	225.1



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CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	493.8	316.9	309.5	279.8	250.1
115°	498.5	349.5	342.7	315.2	287.7
117.5°	507.8	381.0	374.9	349.9	325.0
120°	515.3	399.4	393.6	370.1	346.7
122.5°	526.1	421.1	415.2	391.5	367.9
125°	540.7	448.8	443.4	421.9	400.3
127.5°	555.2	475.6	470.2	448.5	426.7
130°	566.0	493.6	487.7	464.3	440.8
132.5°	574.6	508.2	502.4	478.9	455.5
135°	584.0	525.1	519.8	498.5	477.1
137.5°	598.1	546.8	541.5	520.3	499.2
140°	606.8	561.4	556.5	537.0	517.6
142.5°	614.0	572.3	567.7	549.7	531.7
145°	623.4	588.7	584.8	569.1	553.4
147.5°	637.2	609.5	605.6	590.4	575.1
150°	644.5	620.3	616.8	603.0	589.2
152.5°	649.2	627.4	624.7	614.3	603.8
155°	659.5	642.8	640.9	633.2	625.5
157.5°	669.9	658.4	656.5	649.0	641.5
160°	674.6	665.5	664.0	658.1	652.3
162.5°	679.6	673.0	671.9	667.5	663.1
165°	686.9	683.9	682.9	678.9	674.9
167.5°	692.5	690.0	689.5	687.6	685.8
170°	697.2	697.1	696.6	694.7	692.8
172.5°	697.5	697.5	697.4	697.0	696.6
175°	700.3	701.8	701.8	701.8	701.8
177.5°	700.7	701.8	701.8	701.8	701.8
180°	701.8	701.8	701.8	701.8	701.8



TEST NUMBER: P935634  
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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	12.58	13.37	13.60	14.40	15.78	15.38	16.17	16.40	17.20	18.58
	3H	13.05	13.76	14.08	14.80	16.20	16.71	17.42	17.74	18.46	19.86
	4H	13.24	13.91	14.28	14.96	16.36	17.14	17.82	18.19	18.86	20.27
	6H	13.36	13.98	14.41	15.02	16.44	17.42	18.04	18.47	19.08	20.50
	8H	13.35	13.94	14.41	15.01	16.42	17.48	18.07	18.54	19.14	20.55
	12H	13.32	13.88	14.39	14.94	16.38	17.52	18.08	18.58	19.13	20.57
4H	2H	13.60	14.27	14.65	15.31	16.72	15.78	16.45	16.83	17.50	18.90
	3H	14.62	15.18	15.68	16.25	17.67	17.27	17.83	18.33	18.90	20.32
	4H	14.89	15.40	15.96	16.47	17.91	17.79	18.30	18.85	19.36	20.81
	6H	15.01	15.45	16.09	16.54	17.97	18.14	18.58	19.22	19.67	21.10
	8H	15.02	15.43	16.09	16.50	17.96	18.24	18.65	19.32	19.73	21.18
	12H	14.98	15.35	16.07	16.44	17.90	18.29	18.66	19.38	19.75	21.21
8H	4H	15.33	15.75	16.41	16.82	18.28	17.91	18.32	18.98	19.40	20.85
	6H	15.59	15.93	16.69	17.05	18.50	18.33	18.67	19.43	19.79	21.24
	8H	15.63	15.93	16.74	17.03	18.50	18.48	18.78	19.58	19.88	21.35
	12H	15.61	15.88	16.72	16.97	18.48	18.57	18.83	19.68	19.93	21.44
12H	4H	15.33	15.71	16.43	16.80	18.26	17.87	18.24	18.96	19.33	20.79
	6H	15.65	15.95	16.76	17.05	18.52	18.33	18.63	19.43	19.73	21.20
	8H	15.71	15.98	16.82	17.07	18.58	18.48	18.75	19.59	19.84	21.35