

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: P933938

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

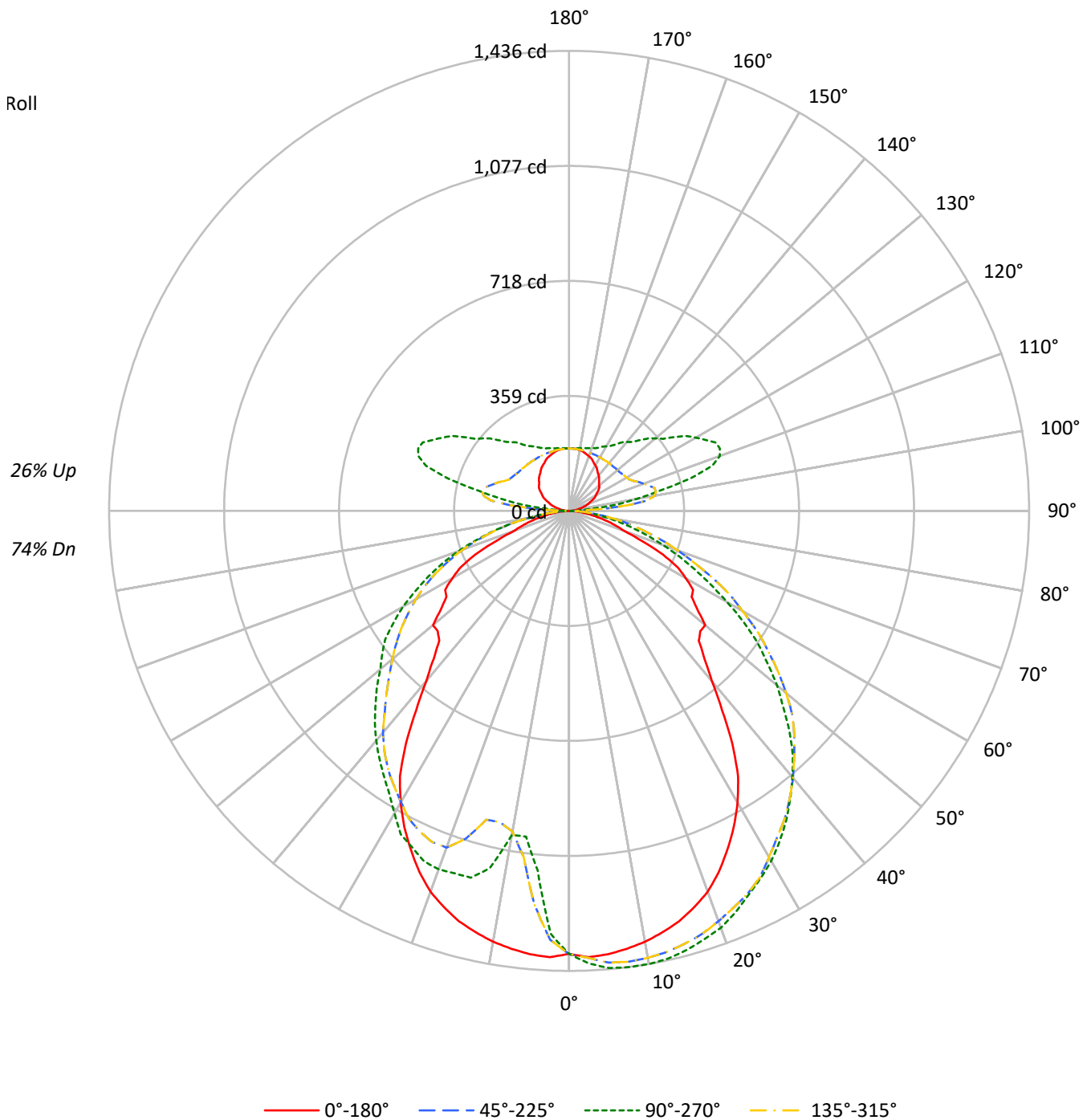
Test Method: LM-79-2019  
Report Number: P933938  
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4851.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 45  
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





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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	50	30	10	50	30	10	50	30	10	0																								
RCR																																																						
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74																																				
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62																																				
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52																																				
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44																																				
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38																																				
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33																																				
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29																																				
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26																																				
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23																																				
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21																																				
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19																																				

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

	0°	90°	180°	270°
0°	8553	8553	8553	8553
5°	8614	8634	8614	6789
10°	8553	8505	8553	6080
15°	8457	8320	8457	6948
20°	8277	8102	8277	6962
25°	7912	7784	7912	6815
30°	7441	7520	7441	6491
35°	6630	7185	6630	6135
40°	5521	6792	5521	5866
45°	4930	6331	4930	5557
50°	5233	5781	5233	5246
55°	4920	5189	4920	5066
60°	5065	4407	5065	4641
65°	4585	3644	4585	4073
70°	3167	2903	3167	3414
75°	2768	2147	2768	2570
80°	2213	1419	2213	1545
85°	1246	751	1246	639

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7561 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.8	2.6
10°-20°	354.4	7.3
20°-30°	547.8	11.3
30°-40°	653.9	13.5
40°-50°	657.8	13.6
50°-60°	572.3	11.8
60°-70°	405.8	8.4
70°-80°	214.7	4.4
80°-90°	54.2	1.1
90°-100°	95.1	2.0
100°-110°	250.2	5.2
110°-120°	259.4	5.3
120°-130°	208.1	4.3
130°-140°	163.3	3.4
140°-150°	125.3	2.6
150°-160°	90.2	1.9
160°-170°	55.2	1.1
170°-180°	18.7	0.4
0°-30°	1026.9	21.2
0°-40°	1680.8	34.6
0°-60°	2910.9	60.0
0°-90°	3585.6	73.9
90°-120°	604.7	12.5
90°-150°	1101.3	22.7
90°-180°	1265.0	26.1
0°-180°	4851.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1383	1383	1383	1383	1383	
5°	1389	1432	1389	1126	1389	132
15°	1326	1419	1326	1185	1326	373
25°	1168	1324	1168	1159	1168	536
35°	888	1181	888	1008	888	549
45°	573	973	573	854	573	459
55°	467	718	467	701	467	429
65°	324	433	324	484	324	310
75°	123	205	123	246	123	129
85°	21	52	21	44	21	28
90°	1	5	1	5	1	2
95°	13	58	13	58	13	14
105°	45	392	45	392	45	48
115°	80	504	80	504	80	79
125°	111	402	111	402	111	99
135°	133	312	133	312	133	103
145°	154	253	154	253	154	96
155°	174	218	174	218	174	80
165°	188	203	188	203	188	53
175°	195	197	195	197	195	19
180°	195	195	195	195	195	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1394.4	1394.4	1402.2	1404.8	1404.8	1400.9	1397.0	1400.9	1412.7	1416.6	1415.3
5°	1389.2	1399.6	1414.0	1416.6	1419.2	1417.9	1415.3	1417.9	1431.0	1433.6	1434.9
7.5°	1378.7	1398.3	1416.6	1420.5	1424.5	1420.5	1419.2	1421.9	1434.9	1437.5	1437.5
10°	1365.6	1393.1	1414.0	1416.6	1420.5	1416.6	1416.6	1421.9	1434.9	1437.5	1438.9
12.5°	1347.3	1385.2	1404.8	1407.5	1412.7	1411.4	1410.1	1415.3	1428.4	1431.0	1431.0
15°	1326.4	1370.8	1389.2	1391.8	1400.9	1398.3	1398.3	1403.5	1417.9	1421.9	1420.5
17.5°	1297.6	1352.5	1373.5	1377.4	1383.9	1382.6	1383.9	1389.2	1402.2	1404.8	1406.2
20°	1264.9	1327.7	1352.5	1356.4	1363.0	1363.0	1363.0	1369.5	1382.6	1387.8	1387.8
22.5°	1220.4	1301.5	1327.7	1330.3	1338.1	1338.1	1340.8	1349.9	1361.7	1363.0	1363.0
25°	1168.1	1272.7	1295.0	1302.8	1310.7	1314.6	1318.5	1323.7	1327.7	1326.4	1327.7
27.5°	1113.2	1236.1	1264.9	1270.1	1280.6	1284.5	1289.7	1291.0	1292.4	1296.3	1293.7
30°	1051.7	1185.1	1228.3	1233.5	1250.5	1253.1	1247.9	1250.5	1257.0	1259.7	1262.3
32.5°	982.3	1109.2	1190.3	1202.1	1217.8	1209.9	1208.6	1212.6	1223.0	1223.0	1225.6
35°	888.2	1050.4	1155.0	1165.5	1177.2	1168.1	1173.3	1174.6	1181.2	1185.1	1183.8
37.5°	784.8	999.4	1118.4	1126.2	1135.4	1123.6	1131.5	1135.4	1140.6	1138.0	1138.0
40°	693.3	919.6	1075.2	1080.5	1088.3	1079.1	1087.0	1089.6	1092.2	1089.6	1088.3
42.5°	625.2	831.9	1029.4	1036.0	1030.7	1037.3	1039.9	1045.1	1041.2	1036.0	1036.0
45°	572.9	808.4	979.7	987.6	979.7	990.2	994.1	994.1	982.3	979.7	978.4
47.5°	555.9	761.3	930.0	930.0	926.1	939.2	945.7	936.6	924.8	920.9	920.9
50°	554.6	709.0	862.0	856.8	875.1	890.8	884.2	875.1	865.9	851.5	851.5
52.5°	503.6	644.9	774.4	794.0	822.8	831.9	821.5	812.3	796.6	790.1	784.8
55°	467.0	578.2	694.6	733.8	763.9	775.7	756.1	746.9	723.4	719.4	716.8
57.5°	459.1	481.4	621.3	671.0	707.7	706.3	694.6	677.6	657.9	654.0	652.7
60°	421.2	347.9	542.8	601.7	639.6	635.7	625.2	609.6	591.2	588.6	586.0
62.5°	382.0	252.5	453.9	520.6	574.2	572.9	563.8	540.2	527.1	520.6	515.4
65°	324.4	211.9	323.1	433.0	510.1	512.8	493.1	476.1	461.7	453.9	452.6
67.5°	247.2	172.7	218.4	361.0	448.7	446.0	421.2	413.3	395.0	391.1	383.3
70°	183.1	115.1	151.7	293.0	388.5	382.0	362.3	353.2	336.2	327.0	321.8
72.5°	151.7	92.9	111.2	227.6	327.0	319.2	302.2	291.7	277.3	269.5	264.2
75°	123.0	98.1	85.0	168.7	265.5	260.3	244.6	234.1	222.4	211.9	213.2
77.5°	90.3	91.6	68.0	124.3	210.6	202.7	193.6	180.5	175.3	164.8	164.8
80°	68.0	71.9	51.0	85.0	151.7	151.7	143.9	134.7	125.6	120.3	120.3
82.5°	45.8	45.8	37.9	53.6	103.3	99.4	94.2	91.6	86.3	83.7	83.7
85°	20.9	26.2	23.5	32.7	56.2	58.9	58.9	56.2	54.9	52.3	53.6
87.5°	6.5	11.8	14.4	18.3	28.8	30.1	31.4	31.4	31.4	32.7	32.7
90°	1.3	2.4	3.4	3.7	5.8	8.5	9.9	8.8	6.6	5.0	5.0
92.5°	5.2	14.1	23.0	25.3	35.6	49.3	56.1	49.1	35.2	24.9	23.9
95°	12.6	28.9	45.2	49.3	87.5	138.4	163.9	146.2	110.9	84.5	81.5
97.5°	21.7	36.1	50.5	54.1	117.8	202.7	245.2	234.1	211.8	195.1	189.4
100°	28.9	41.9	54.9	58.2	128.9	223.2	270.2	271.0	272.7	273.9	267.1
102.5°	34.9	47.1	59.2	62.3	133.9	229.5	277.3	291.5	319.9	341.3	335.5
105°	45.1	55.4	65.7	68.3	137.7	230.2	276.5	308.4	372.1	419.9	416.7
107.5°	55.5	65.1	74.7	77.2	138.4	220.0	260.8	305.3	394.2	460.8	461.6
110°	62.6	71.3	80.0	82.1	137.3	210.9	247.7	297.5	396.8	471.2	474.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	69.6	77.9	86.1	88.2	137.3	203.0	235.8	286.6	388.3	464.5	469.5
115°	80.1	87.7	95.3	97.2	138.7	193.9	221.5	270.5	368.4	441.9	448.8
117.5°	90.4	97.3	104.2	106.0	141.2	188.2	211.7	255.9	344.3	410.6	418.2
120°	96.4	103.0	109.4	111.1	143.4	186.4	207.8	248.2	328.9	389.5	397.0
122.5°	102.3	108.9	115.5	117.1	146.3	185.3	204.8	241.1	313.8	368.4	375.8
125°	111.4	117.4	123.4	124.9	150.4	184.5	201.5	232.4	294.2	340.5	347.3
127.5°	118.7	124.7	130.8	132.3	154.4	184.0	198.7	225.2	278.4	318.1	323.9
130°	122.6	129.1	135.6	137.3	157.4	184.3	197.7	221.3	268.5	303.9	309.2
132.5°	126.7	133.2	139.7	141.4	159.8	184.5	196.8	217.9	260.2	291.9	296.6
135°	132.7	138.7	144.6	146.1	162.5	184.3	195.2	213.0	248.4	274.9	279.0
137.5°	138.9	144.8	150.6	152.1	166.4	185.5	195.0	210.0	239.9	262.3	265.6
140°	144.0	149.4	154.8	156.2	168.8	185.7	194.0	206.9	232.8	252.2	255.3
142.5°	147.9	152.9	157.9	159.1	170.7	186.3	194.0	205.4	228.1	245.1	247.8
145°	153.9	158.3	162.6	163.8	173.4	186.3	192.7	202.0	220.5	234.5	236.5
147.5°	159.9	164.2	168.5	169.5	177.3	187.6	192.7	200.0	214.6	225.6	227.3
150°	163.9	167.7	171.6	172.6	179.3	188.3	192.7	198.9	211.2	220.5	221.8
152.5°	168.0	170.8	173.8	174.5	180.6	188.7	192.7	198.0	208.5	216.4	217.5
155°	174.0	176.2	178.3	178.9	183.5	189.7	192.7	196.9	205.3	211.6	212.3
157.5°	178.4	180.5	182.6	183.1	186.4	190.6	192.7	195.9	202.5	207.4	207.9
160°	181.5	183.1	184.7	185.1	187.7	191.1	192.7	195.5	201.1	205.3	205.5
162.5°	184.4	185.7	186.9	187.2	189.1	191.5	192.7	195.1	199.8	203.4	203.6
165°	187.7	188.8	189.9	190.2	191.1	192.2	192.7	194.4	197.8	200.3	200.6
167.5°	190.7	191.2	191.8	191.9	192.6	193.6	194.0	195.2	197.3	199.0	199.1
170°	192.7	193.2	193.8	193.9	193.9	194.0	194.0	195.2	197.3	199.0	199.0
172.5°	193.8	193.9	194.0	194.0	194.0	194.0	194.0	194.9	196.6	198.0	197.9
175°	195.2	195.2	195.2	195.2	194.8	194.3	194.0	194.6	195.7	196.6	196.6
177.5°	195.2	195.2	195.2	195.2	194.9	194.5	194.3	194.7	195.6	196.3	196.2
180°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1417.9	1414.0	1417.9	1415.3	1416.6	1412.7	1400.9	1397.0	1400.9	1404.8	1404.8
5°	1434.9	1432.3	1434.9	1434.9	1433.6	1431.0	1417.9	1415.3	1417.9	1419.2	1416.6
7.5°	1440.2	1436.2	1440.2	1437.5	1437.5	1434.9	1421.9	1419.2	1420.5	1424.5	1420.5
10°	1440.2	1436.2	1440.2	1438.9	1437.5	1434.9	1421.9	1416.6	1416.6	1420.5	1416.6
12.5°	1433.6	1431.0	1433.6	1431.0	1431.0	1428.4	1415.3	1410.1	1411.4	1412.7	1407.5
15°	1423.2	1419.2	1423.2	1420.5	1421.9	1417.9	1403.5	1398.3	1398.3	1400.9	1391.8
17.5°	1407.5	1402.2	1407.5	1406.2	1404.8	1402.2	1389.2	1383.9	1382.6	1383.9	1377.4
20°	1389.2	1385.2	1389.2	1387.8	1387.8	1382.6	1369.5	1363.0	1363.0	1363.0	1356.4
22.5°	1360.4	1356.4	1360.4	1363.0	1363.0	1361.7	1349.9	1340.8	1338.1	1338.1	1330.3
25°	1327.7	1323.7	1327.7	1327.7	1326.4	1327.7	1323.7	1318.5	1314.6	1310.7	1302.8
27.5°	1296.3	1293.7	1296.3	1293.7	1296.3	1292.4	1291.0	1289.7	1284.5	1280.6	1270.1
30°	1264.9	1262.3	1264.9	1262.3	1259.7	1257.0	1250.5	1247.9	1253.1	1250.5	1233.5
32.5°	1225.6	1223.0	1225.6	1225.6	1223.0	1223.0	1212.6	1208.6	1209.9	1217.8	1202.1
35°	1185.1	1181.2	1185.1	1183.8	1185.1	1181.2	1174.6	1173.3	1168.1	1177.2	1165.5
37.5°	1138.0	1134.1	1138.0	1138.0	1138.0	1140.6	1135.4	1131.5	1123.6	1135.4	1126.2
40°	1089.6	1084.4	1089.6	1088.3	1089.6	1092.2	1089.6	1087.0	1079.1	1088.3	1080.5
42.5°	1034.7	1033.4	1034.7	1036.0	1036.0	1041.2	1045.1	1039.9	1037.3	1030.7	1036.0
45°	975.8	973.2	975.8	978.4	979.7	982.3	994.1	994.1	990.2	979.7	987.6
47.5°	913.0	906.5	913.0	920.9	920.9	924.8	936.6	945.7	939.2	926.1	930.0
50°	846.3	847.6	846.3	851.5	851.5	865.9	875.1	884.2	890.8	875.1	856.8
52.5°	780.9	779.6	780.9	784.8	790.1	796.6	812.3	821.5	831.9	822.8	794.0
55°	715.5	718.1	715.5	716.8	719.4	723.4	746.9	756.1	775.7	763.9	733.8
57.5°	650.1	646.2	650.1	652.7	654.0	657.9	677.6	694.6	706.3	707.7	671.0
60°	574.2	569.0	574.2	586.0	588.6	591.2	609.6	625.2	635.7	639.6	601.7
62.5°	507.5	498.4	507.5	515.4	520.6	527.1	540.2	563.8	572.9	574.2	520.6
65°	436.9	433.0	436.9	452.6	453.9	461.7	476.1	493.1	512.8	510.1	433.0
67.5°	372.8	372.8	372.8	383.3	391.1	395.0	413.3	421.2	446.0	448.7	361.0
70°	313.9	312.6	313.9	321.8	327.0	336.2	353.2	362.3	382.0	388.5	293.0
72.5°	257.7	256.4	257.7	264.2	269.5	277.3	291.7	302.2	319.2	327.0	227.6
75°	208.0	205.4	208.0	213.2	211.9	222.4	234.1	244.6	260.3	265.5	168.7
77.5°	159.6	159.6	159.6	164.8	164.8	175.3	180.5	193.6	202.7	210.6	124.3
80°	119.0	117.7	119.0	120.3	120.3	125.6	134.7	143.9	151.7	151.7	85.0
82.5°	83.7	81.1	83.7	83.7	83.7	86.3	91.6	94.2	99.4	103.3	53.6
85°	52.3	52.3	52.3	53.6	52.3	54.9	56.2	58.9	58.9	56.2	32.7
87.5°	34.0	32.7	34.0	32.7	32.7	31.4	31.4	31.4	30.1	28.8	18.3
90°	5.0	5.0	5.0	5.0	5.0	6.6	8.8	9.9	8.5	5.8	3.7
92.5°	19.9	16.0	19.9	23.9	24.9	35.2	49.1	56.1	49.3	35.6	25.3
95°	69.5	57.6	69.5	81.5	84.5	110.9	146.2	163.9	138.4	87.5	49.3
97.5°	166.6	143.7	166.6	189.4	195.1	211.8	234.1	245.2	202.7	117.8	54.1
100°	240.0	212.8	240.0	267.1	273.9	272.7	271.0	270.2	223.2	128.9	58.2
102.5°	312.2	288.9	312.2	335.5	341.3	319.9	291.5	277.3	229.5	133.9	62.3
105°	404.3	391.7	404.3	416.7	419.9	372.1	308.4	276.5	230.2	137.7	68.3
107.5°	464.5	467.6	464.5	461.6	460.8	394.2	305.3	260.8	220.0	138.4	77.2
110°	487.6	500.6	487.6	474.5	471.2	396.8	297.5	247.7	210.9	137.3	82.1





TEST NUMBER: P933938

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	489.6	509.6	489.6	469.5	464.5	388.3	286.6	235.8	203.0	137.3	88.2
115°	476.6	504.4	476.6	448.8	441.9	368.4	270.5	221.5	193.9	138.7	97.2
117.5°	449.1	479.9	449.1	418.2	410.6	344.3	255.9	211.7	188.2	141.2	106.0
120°	426.9	456.9	426.9	397.0	389.5	328.9	248.2	207.8	186.4	143.4	111.1
122.5°	405.3	434.8	405.3	375.8	368.4	313.8	241.1	204.8	185.3	146.3	117.1
125°	374.5	401.7	374.5	347.3	340.5	294.2	232.4	201.5	184.5	150.4	124.9
127.5°	346.8	369.7	346.8	323.9	318.1	278.4	225.2	198.7	184.0	154.4	132.3
130°	330.4	351.6	330.4	309.2	303.9	268.5	221.3	197.7	184.3	157.4	137.3
132.5°	315.6	334.6	315.6	296.6	291.9	260.2	217.9	196.8	184.5	159.8	141.4
135°	295.3	311.7	295.3	279.0	274.9	248.4	213.0	195.2	184.3	162.5	146.1
137.5°	279.1	292.4	279.1	265.6	262.3	239.9	210.0	195.0	185.5	166.4	152.1
140°	267.8	280.4	267.8	255.3	252.2	232.8	206.9	194.0	185.7	168.8	156.2
142.5°	258.6	269.4	258.6	247.8	245.1	228.1	205.4	194.0	186.3	170.7	159.1
145°	244.7	252.9	244.7	236.5	234.5	220.5	202.0	192.7	186.3	173.4	163.8
147.5°	234.1	240.8	234.1	227.3	225.6	214.6	200.0	192.7	187.6	177.3	169.5
150°	227.3	232.8	227.3	221.8	220.5	211.2	198.9	192.7	188.3	179.3	172.6
152.5°	221.6	225.8	221.6	217.5	216.4	208.5	198.0	192.7	188.7	180.6	174.5
155°	215.0	217.7	215.0	212.3	211.6	205.3	196.9	192.7	189.7	183.5	178.9
157.5°	209.8	211.7	209.8	207.9	207.4	202.5	195.9	192.7	190.6	186.4	183.1
160°	206.7	207.8	206.7	205.5	205.3	201.1	195.5	192.7	191.1	187.7	185.1
162.5°	204.7	205.7	204.7	203.6	203.4	199.8	195.1	192.7	191.5	189.1	187.2
165°	201.7	202.8	201.7	200.6	200.3	197.8	194.4	192.7	192.2	191.1	190.2
167.5°	199.6	200.0	199.6	199.1	199.0	197.3	195.2	194.0	193.6	192.6	191.9
170°	199.0	199.0	199.0	199.0	199.0	197.3	195.2	194.0	194.0	193.9	193.9
172.5°	197.4	197.1	197.4	197.9	198.0	196.6	194.9	194.0	194.0	194.0	194.0
175°	196.6	196.6	196.6	196.6	196.6	195.7	194.6	194.0	194.3	194.8	195.2
177.5°	195.7	195.2	195.7	196.2	196.3	195.6	194.7	194.3	194.5	194.9	195.2
180°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2



TEST NUMBER: P933938

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1402.2	1394.4	1394.4	1381.3	1376.1	1372.1	1365.6	1346.0	1340.8	1335.5	1343.4
5°	1414.0	1399.6	1389.2	1365.6	1346.0	1338.1	1313.3	1266.2	1234.8	1211.3	1198.2
7.5°	1416.6	1398.3	1378.7	1342.1	1295.0	1274.0	1198.2	1111.8	1088.3	1067.4	1054.3
10°	1414.0	1393.1	1365.6	1310.7	1199.5	1162.9	1087.0	1030.7	1016.4	1012.4	1016.4
12.5°	1404.8	1385.2	1347.3	1255.7	1100.1	1075.2	1030.7	998.0	995.4	1002.0	1037.3
15°	1389.2	1370.8	1326.4	1182.5	1045.1	1026.8	995.4	983.7	998.0	1043.8	1149.8
17.5°	1373.5	1352.5	1297.6	1110.5	1003.3	990.2	968.0	991.5	1072.6	1134.1	1169.4
20°	1352.5	1327.7	1264.9	1058.2	973.2	961.4	951.0	1056.9	1118.4	1140.6	1160.2
22.5°	1327.7	1301.5	1220.4	1021.6	941.8	932.6	939.2	1093.5	1118.4	1134.1	1151.1
25°	1295.0	1272.7	1168.1	992.8	916.9	906.5	931.3	1089.6	1104.0	1107.9	1141.9
27.5°	1264.9	1236.1	1113.2	966.6	886.9	882.9	937.9	1072.6	1083.1	1087.0	1123.6
30°	1228.3	1185.1	1051.7	939.2	855.5	854.2	939.2	1051.7	1049.1	1059.5	1096.1
32.5°	1190.3	1109.2	982.3	905.2	825.4	824.1	930.0	1020.3	1017.7	1032.1	1059.5
35°	1155.0	1050.4	888.2	865.9	787.4	788.8	907.8	983.7	985.0	998.0	1015.0
37.5°	1118.4	999.4	784.8	822.8	750.8	750.8	877.7	949.6	947.0	951.0	974.5
40°	1075.2	919.6	693.3	766.5	716.8	712.9	841.1	913.0	903.9	902.6	935.3
42.5°	1029.4	831.9	625.2	692.0	677.6	672.3	796.6	868.5	851.5	855.5	897.3
45°	979.7	808.4	572.9	584.7	637.0	633.1	748.2	817.5	805.8	816.2	859.4
47.5°	930.0	761.3	555.9	485.3	593.9	592.5	694.6	767.8	761.3	771.8	817.5
50°	862.0	709.0	554.6	416.0	545.5	550.7	630.5	719.4	719.4	728.6	777.0
52.5°	774.4	644.9	503.6	376.7	489.2	504.9	574.2	677.6	680.2	689.3	732.5
55°	694.6	578.2	467.0	346.6	422.5	456.5	519.3	634.4	639.6	648.8	688.0
57.5°	621.3	481.4	459.1	311.3	361.0	393.7	470.9	592.5	595.2	603.0	640.9
60°	542.8	347.9	421.2	273.4	307.4	332.2	426.4	542.8	552.0	557.2	589.9
62.5°	453.9	252.5	382.0	247.2	281.2	286.5	389.8	495.8	507.5	511.4	531.1
65°	323.1	211.9	324.4	225.0	253.8	255.1	350.6	447.4	457.8	464.4	478.7
67.5°	218.4	172.7	247.2	204.1	232.8	234.1	312.6	391.1	405.5	410.7	419.9
70°	151.7	115.1	183.1	181.8	209.3	211.9	272.1	340.1	353.2	357.1	362.3
72.5°	111.2	92.9	151.7	163.5	184.4	187.1	230.2	282.5	295.6	299.5	302.2
75°	85.0	98.1	123.0	142.6	157.0	158.3	188.4	230.2	239.4	242.0	243.3
77.5°	68.0	91.6	90.3	115.1	128.2	125.6	147.8	177.9	185.7	185.7	185.7
80°	51.0	71.9	68.0	82.4	94.2	91.6	106.0	126.9	129.5	132.1	130.8
82.5°	37.9	45.8	45.8	52.3	62.8	60.2	70.6	82.4	82.4	82.4	85.0
85°	23.5	26.2	20.9	27.5	35.3	34.0	39.2	44.5	45.8	45.8	43.2
87.5°	14.4	11.8	6.5	10.5	15.7	15.7	18.3	19.6	18.3	18.3	18.3
90°	3.4	2.4	1.3	2.4	3.4	3.7	5.8	8.5	9.9	8.8	6.6
92.5°	23.0	14.1	5.2	14.1	23.0	25.3	35.6	49.3	56.1	49.1	35.2
95°	45.2	28.9	12.6	28.9	45.2	49.3	87.5	138.4	163.9	146.2	110.9
97.5°	50.5	36.1	21.7	36.1	50.5	54.1	117.8	202.7	245.2	234.1	211.8
100°	54.9	41.9	28.9	41.9	54.9	58.2	128.9	223.2	270.2	271.0	272.7
102.5°	59.2	47.1	34.9	47.1	59.2	62.3	133.9	229.5	277.3	291.5	319.9
105°	65.7	55.4	45.1	55.4	65.7	68.3	137.7	230.2	276.5	308.4	372.1
107.5°	74.7	65.1	55.5	65.1	74.7	77.2	138.4	220.0	260.8	305.3	394.2
110°	80.0	71.3	62.6	71.3	80.0	82.1	137.3	210.9	247.7	297.5	396.8



TEST NUMBER: P933938

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	86.1	77.9	69.6	77.9	86.1	88.2	137.3	203.0	235.8	286.6	388.3
115°	95.3	87.7	80.1	87.7	95.3	97.2	138.7	193.9	221.5	270.5	368.4
117.5°	104.2	97.3	90.4	97.3	104.2	106.0	141.2	188.2	211.7	255.9	344.3
120°	109.4	103.0	96.4	103.0	109.4	111.1	143.4	186.4	207.8	248.2	328.9
122.5°	115.5	108.9	102.3	108.9	115.5	117.1	146.3	185.3	204.8	241.1	313.8
125°	123.4	117.4	111.4	117.4	123.4	124.9	150.4	184.5	201.5	232.4	294.2
127.5°	130.8	124.7	118.7	124.7	130.8	132.3	154.4	184.0	198.7	225.2	278.4
130°	135.6	129.1	122.6	129.1	135.6	137.3	157.4	184.3	197.7	221.3	268.5
132.5°	139.7	133.2	126.7	133.2	139.7	141.4	159.8	184.5	196.8	217.9	260.2
135°	144.6	138.7	132.7	138.7	144.6	146.1	162.5	184.3	195.2	213.0	248.4
137.5°	150.6	144.8	138.9	144.8	150.6	152.1	166.4	185.5	195.0	210.0	239.9
140°	154.8	149.4	144.0	149.4	154.8	156.2	168.8	185.7	194.0	206.9	232.8
142.5°	157.9	152.9	147.9	152.9	157.9	159.1	170.7	186.3	194.0	205.4	228.1
145°	162.6	158.3	153.9	158.3	162.6	163.8	173.4	186.3	192.7	202.0	220.5
147.5°	168.5	164.2	159.9	164.2	168.5	169.5	177.3	187.6	192.7	200.0	214.6
150°	171.6	167.7	163.9	167.7	171.6	172.6	179.3	188.3	192.7	198.9	211.2
152.5°	173.8	170.8	168.0	170.8	173.8	174.5	180.6	188.7	192.7	198.0	208.5
155°	178.3	176.2	174.0	176.2	178.3	178.9	183.5	189.7	192.7	196.9	205.3
157.5°	182.6	180.5	178.4	180.5	182.6	183.1	186.4	190.6	192.7	195.9	202.5
160°	184.7	183.1	181.5	183.1	184.7	185.1	187.7	191.1	192.7	195.5	201.1
162.5°	186.9	185.7	184.4	185.7	186.9	187.2	189.1	191.5	192.7	195.1	199.8
165°	189.9	188.8	187.7	188.8	189.9	190.2	191.1	192.2	192.7	194.4	197.8
167.5°	191.8	191.2	190.7	191.2	191.8	191.9	192.6	193.6	194.0	195.2	197.3
170°	193.8	193.2	192.7	193.2	193.8	193.9	193.9	194.0	194.0	195.2	197.3
172.5°	194.0	193.9	193.8	193.9	194.0	194.0	194.0	194.0	194.0	194.9	196.6
175°	195.2	195.2	195.2	195.2	195.2	195.2	194.8	194.3	194.0	194.6	195.7
177.5°	195.2	195.2	195.2	195.2	195.2	195.2	194.9	194.5	194.3	194.7	195.6
180°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2



TEST NUMBER: P933938

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1334.2	1330.3	1335.5	1321.1	1335.5	1330.3	1334.2	1343.4	1335.5	1340.8	1346.0
5°	1170.7	1164.2	1143.2	1126.2	1143.2	1164.2	1170.7	1198.2	1211.3	1234.8	1266.2
7.5°	1046.4	1041.2	1036.0	1025.5	1036.0	1041.2	1046.4	1054.3	1067.4	1088.3	1111.8
10°	1019.0	1020.3	1028.1	1026.8	1028.1	1020.3	1019.0	1016.4	1012.4	1016.4	1030.7
12.5°	1089.6	1101.4	1144.5	1141.9	1144.5	1101.4	1089.6	1037.3	1002.0	995.4	998.0
15°	1170.7	1174.6	1183.8	1185.1	1183.8	1174.6	1170.7	1149.8	1043.8	998.0	983.7
17.5°	1178.6	1179.9	1186.4	1186.4	1186.4	1179.9	1178.6	1169.4	1134.1	1072.6	991.5
20°	1172.0	1174.6	1187.7	1190.3	1187.7	1174.6	1172.0	1160.2	1140.6	1118.4	1056.9
22.5°	1169.4	1174.6	1185.1	1183.8	1185.1	1174.6	1169.4	1151.1	1134.1	1118.4	1093.5
25°	1156.3	1156.3	1157.6	1158.9	1157.6	1156.3	1156.3	1141.9	1107.9	1104.0	1089.6
27.5°	1128.8	1131.5	1139.3	1138.0	1139.3	1131.5	1128.8	1123.6	1087.0	1083.1	1072.6
30°	1104.0	1101.4	1094.8	1089.6	1094.8	1101.4	1104.0	1096.1	1059.5	1049.1	1051.7
32.5°	1062.1	1055.6	1049.1	1045.1	1049.1	1055.6	1062.1	1059.5	1032.1	1017.7	1020.3
35°	1012.4	1013.7	1012.4	1008.5	1012.4	1013.7	1012.4	1015.0	998.0	985.0	983.7
37.5°	977.1	979.7	978.4	973.2	978.4	979.7	977.1	974.5	951.0	947.0	949.6
40°	940.5	941.8	940.5	936.6	940.5	941.8	940.5	935.3	902.6	903.9	913.0
42.5°	905.2	903.9	899.9	897.3	899.9	903.9	905.2	897.3	855.5	851.5	868.5
45°	864.6	865.9	858.1	854.2	858.1	865.9	864.6	859.4	816.2	805.8	817.5
47.5°	824.1	824.1	817.5	813.6	817.5	824.1	824.1	817.5	771.8	761.3	767.8
50°	780.9	779.6	770.4	769.1	770.4	779.6	780.9	777.0	728.6	719.4	719.4
52.5°	731.2	731.2	732.5	735.1	732.5	731.2	731.2	732.5	689.3	680.2	677.6
55°	688.0	689.3	698.5	701.1	698.5	689.3	688.0	688.0	648.8	639.6	634.4
57.5°	643.6	643.6	650.1	650.1	650.1	643.6	643.6	640.9	603.0	595.2	592.5
60°	592.5	595.2	600.4	599.1	600.4	595.2	592.5	589.9	557.2	552.0	542.8
62.5°	538.9	541.5	542.8	540.2	542.8	541.5	538.9	531.1	511.4	507.5	495.8
65°	482.7	485.3	486.6	484.0	486.6	485.3	482.7	478.7	464.4	457.8	447.4
67.5°	425.1	423.8	422.5	427.7	422.5	423.8	425.1	419.9	410.7	405.5	391.1
70°	366.3	366.3	364.9	367.6	364.9	366.3	366.3	362.3	357.1	353.2	340.1
72.5°	303.5	302.2	307.4	303.5	307.4	302.2	303.5	302.2	299.5	295.6	282.5
75°	242.0	244.6	242.0	245.9	242.0	244.6	242.0	243.3	242.0	239.4	230.2
77.5°	184.4	187.1	184.4	184.4	184.4	187.1	184.4	185.7	185.7	185.7	177.9
80°	130.8	129.5	129.5	128.2	129.5	129.5	130.8	130.8	132.1	129.5	126.9
82.5°	83.7	82.4	82.4	85.0	82.4	82.4	83.7	85.0	82.4	82.4	82.4
85°	45.8	47.1	44.5	44.5	44.5	47.1	45.8	43.2	45.8	45.8	44.5
87.5°	17.0	15.7	15.7	15.7	15.7	15.7	17.0	18.3	18.3	18.3	19.6
90°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.6	8.8	9.9	8.5
92.5°	24.9	23.9	19.9	16.0	19.9	23.9	24.9	35.2	49.1	56.1	49.3
95°	84.5	81.5	69.5	57.6	69.5	81.5	84.5	110.9	146.2	163.9	138.4
97.5°	195.1	189.4	166.6	143.7	166.6	189.4	195.1	211.8	234.1	245.2	202.7
100°	273.9	267.1	240.0	212.8	240.0	267.1	273.9	272.7	271.0	270.2	223.2
102.5°	341.3	335.5	312.2	288.9	312.2	335.5	341.3	319.9	291.5	277.3	229.5
105°	419.9	416.7	404.3	391.7	404.3	416.7	419.9	372.1	308.4	276.5	230.2
107.5°	460.8	461.6	464.5	467.6	464.5	461.6	460.8	394.2	305.3	260.8	220.0
110°	471.2	474.5	487.6	500.6	487.6	474.5	471.2	396.8	297.5	247.7	210.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	464.5	469.5	489.6	509.6	489.6	469.5	464.5	388.3	286.6	235.8	203.0
115°	441.9	448.8	476.6	504.4	476.6	448.8	441.9	368.4	270.5	221.5	193.9
117.5°	410.6	418.2	449.1	479.9	449.1	418.2	410.6	344.3	255.9	211.7	188.2
120°	389.5	397.0	426.9	456.9	426.9	397.0	389.5	328.9	248.2	207.8	186.4
122.5°	368.4	375.8	405.3	434.8	405.3	375.8	368.4	313.8	241.1	204.8	185.3
125°	340.5	347.3	374.5	401.7	374.5	347.3	340.5	294.2	232.4	201.5	184.5
127.5°	318.1	323.9	346.8	369.7	346.8	323.9	318.1	278.4	225.2	198.7	184.0
130°	303.9	309.2	330.4	351.6	330.4	309.2	303.9	268.5	221.3	197.7	184.3
132.5°	291.9	296.6	315.6	334.6	315.6	296.6	291.9	260.2	217.9	196.8	184.5
135°	274.9	279.0	295.3	311.7	295.3	279.0	274.9	248.4	213.0	195.2	184.3
137.5°	262.3	265.6	279.1	292.4	279.1	265.6	262.3	239.9	210.0	195.0	185.5
140°	252.2	255.3	267.8	280.4	267.8	255.3	252.2	232.8	206.9	194.0	185.7
142.5°	245.1	247.8	258.6	269.4	258.6	247.8	245.1	228.1	205.4	194.0	186.3
145°	234.5	236.5	244.7	252.9	244.7	236.5	234.5	220.5	202.0	192.7	186.3
147.5°	225.6	227.3	234.1	240.8	234.1	227.3	225.6	214.6	200.0	192.7	187.6
150°	220.5	221.8	227.3	232.8	227.3	221.8	220.5	211.2	198.9	192.7	188.3
152.5°	216.4	217.5	221.6	225.8	221.6	217.5	216.4	208.5	198.0	192.7	188.7
155°	211.6	212.3	215.0	217.7	215.0	212.3	211.6	205.3	196.9	192.7	189.7
157.5°	207.4	207.9	209.8	211.7	209.8	207.9	207.4	202.5	195.9	192.7	190.6
160°	205.3	205.5	206.7	207.8	206.7	205.5	205.3	201.1	195.5	192.7	191.1
162.5°	203.4	203.6	204.7	205.7	204.7	203.6	203.4	199.8	195.1	192.7	191.5
165°	200.3	200.6	201.7	202.8	201.7	200.6	200.3	197.8	194.4	192.7	192.2
167.5°	199.0	199.1	199.6	200.0	199.6	199.1	199.0	197.3	195.2	194.0	193.6
170°	199.0	199.0	199.0	199.0	199.0	199.0	199.0	197.3	195.2	194.0	194.0
172.5°	198.0	197.9	197.4	197.1	197.4	197.9	198.0	196.6	194.9	194.0	194.0
175°	196.6	196.6	196.6	196.6	196.6	196.6	196.6	195.7	194.6	194.0	194.3
177.5°	196.3	196.2	195.7	195.2	195.7	196.2	196.3	195.6	194.7	194.3	194.5
180°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1365.6	1372.1	1376.1	1381.3	1394.4
5°	1313.3	1338.1	1346.0	1365.6	1389.2
7.5°	1198.2	1274.0	1295.0	1342.1	1378.7
10°	1087.0	1162.9	1199.5	1310.7	1365.6
12.5°	1030.7	1075.2	1100.1	1255.7	1347.3
15°	995.4	1026.8	1045.1	1182.5	1326.4
17.5°	968.0	990.2	1003.3	1110.5	1297.6
20°	951.0	961.4	973.2	1058.2	1264.9
22.5°	939.2	932.6	941.8	1021.6	1220.4
25°	931.3	906.5	916.9	992.8	1168.1
27.5°	937.9	882.9	886.9	966.6	1113.2
30°	939.2	854.2	855.5	939.2	1051.7
32.5°	930.0	824.1	825.4	905.2	982.3
35°	907.8	788.8	787.4	865.9	888.2
37.5°	877.7	750.8	750.8	822.8	784.8
40°	841.1	712.9	716.8	766.5	693.3
42.5°	796.6	672.3	677.6	692.0	625.2
45°	748.2	633.1	637.0	584.7	572.9
47.5°	694.6	592.5	593.9	485.3	555.9
50°	630.5	550.7	545.5	416.0	554.6
52.5°	574.2	504.9	489.2	376.7	503.6
55°	519.3	456.5	422.5	346.6	467.0
57.5°	470.9	393.7	361.0	311.3	459.1
60°	426.4	332.2	307.4	273.4	421.2
62.5°	389.8	286.5	281.2	247.2	382.0
65°	350.6	255.1	253.8	225.0	324.4
67.5°	312.6	234.1	232.8	204.1	247.2
70°	272.1	211.9	209.3	181.8	183.1
72.5°	230.2	187.1	184.4	163.5	151.7
75°	188.4	158.3	157.0	142.6	123.0
77.5°	147.8	125.6	128.2	115.1	90.3
80°	106.0	91.6	94.2	82.4	68.0
82.5°	70.6	60.2	62.8	52.3	45.8
85°	39.2	34.0	35.3	27.5	20.9
87.5°	18.3	15.7	15.7	10.5	6.5
90°	5.8	3.7	3.4	2.4	1.3
92.5°	35.6	25.3	23.0	14.1	5.2
95°	87.5	49.3	45.2	28.9	12.6
97.5°	117.8	54.1	50.5	36.1	21.7
100°	128.9	58.2	54.9	41.9	28.9
102.5°	133.9	62.3	59.2	47.1	34.9
105°	137.7	68.3	65.7	55.4	45.1
107.5°	138.4	77.2	74.7	65.1	55.5
110°	137.3	82.1	80.0	71.3	62.6



TEST NUMBER: P933938

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	137.3	88.2	86.1	77.9	69.6
115°	138.7	97.2	95.3	87.7	80.1
117.5°	141.2	106.0	104.2	97.3	90.4
120°	143.4	111.1	109.4	103.0	96.4
122.5°	146.3	117.1	115.5	108.9	102.3
125°	150.4	124.9	123.4	117.4	111.4
127.5°	154.4	132.3	130.8	124.7	118.7
130°	157.4	137.3	135.6	129.1	122.6
132.5°	159.8	141.4	139.7	133.2	126.7
135°	162.5	146.1	144.6	138.7	132.7
137.5°	166.4	152.1	150.6	144.8	138.9
140°	168.8	156.2	154.8	149.4	144.0
142.5°	170.7	159.1	157.9	152.9	147.9
145°	173.4	163.8	162.6	158.3	153.9
147.5°	177.3	169.5	168.5	164.2	159.9
150°	179.3	172.6	171.6	167.7	163.9
152.5°	180.6	174.5	173.8	170.8	168.0
155°	183.5	178.9	178.3	176.2	174.0
157.5°	186.4	183.1	182.6	180.5	178.4
160°	187.7	185.1	184.7	183.1	181.5
162.5°	189.1	187.2	186.9	185.7	184.4
165°	191.1	190.2	189.9	188.8	187.7
167.5°	192.6	191.9	191.8	191.2	190.7
170°	193.9	193.9	193.8	193.2	192.7
172.5°	194.0	194.0	194.0	193.9	193.8
175°	194.8	195.2	195.2	195.2	195.2
177.5°	194.9	195.2	195.2	195.2	195.2
180°	195.2	195.2	195.2	195.2	195.2



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.22	15.35	14.95	16.09	16.98	17.05	18.18	17.77	18.92	19.80
	3H	14.72	15.73	15.46	16.48	17.40	18.41	19.42	19.15	20.18	21.09
	4H	14.92	15.88	15.68	16.64	17.57	18.87	19.82	19.62	20.58	21.51
	6H	15.06	15.94	15.82	16.71	17.65	19.16	20.05	19.93	20.82	21.76
	8H	15.07	15.91	15.84	16.70	17.64	19.25	20.09	20.02	20.87	21.82
	12H	15.05	15.85	15.83	16.63	17.60	19.29	20.09	20.07	20.88	21.85
4H	2H	15.29	16.24	16.04	17.00	17.93	17.49	18.44	18.25	19.21	20.13
	3H	16.34	17.13	17.11	17.93	18.88	19.02	19.81	19.79	20.61	21.55
	4H	16.63	17.35	17.41	18.15	19.12	19.56	20.28	20.34	21.08	22.05
	6H	16.77	17.39	17.57	18.21	19.19	19.94	20.56	20.74	21.38	22.36
	8H	16.78	17.36	17.58	18.18	19.17	20.05	20.63	20.85	21.45	22.44
	12H	16.76	17.28	17.58	18.12	19.12	20.12	20.64	20.94	21.48	22.48
8H	4H	17.10	17.68	17.91	18.50	19.49	19.70	20.29	20.51	21.10	22.10
	6H	17.37	17.86	18.21	18.72	19.71	20.15	20.63	20.98	21.49	22.48
	8H	17.42	17.85	18.26	18.70	19.71	20.30	20.73	21.15	21.59	22.60
	12H	17.41	17.79	18.26	18.64	19.71	20.41	20.79	21.26	21.64	22.70
12H	4H	17.12	17.64	17.94	18.48	19.48	19.68	20.21	20.51	21.04	22.04
	6H	17.44	17.87	18.28	18.72	19.73	20.15	20.58	20.99	21.43	22.44
	8H	17.51	17.89	18.36	18.74	19.81	20.32	20.70	21.17	21.55	22.61