

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: P934083

Luminaire Tested: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

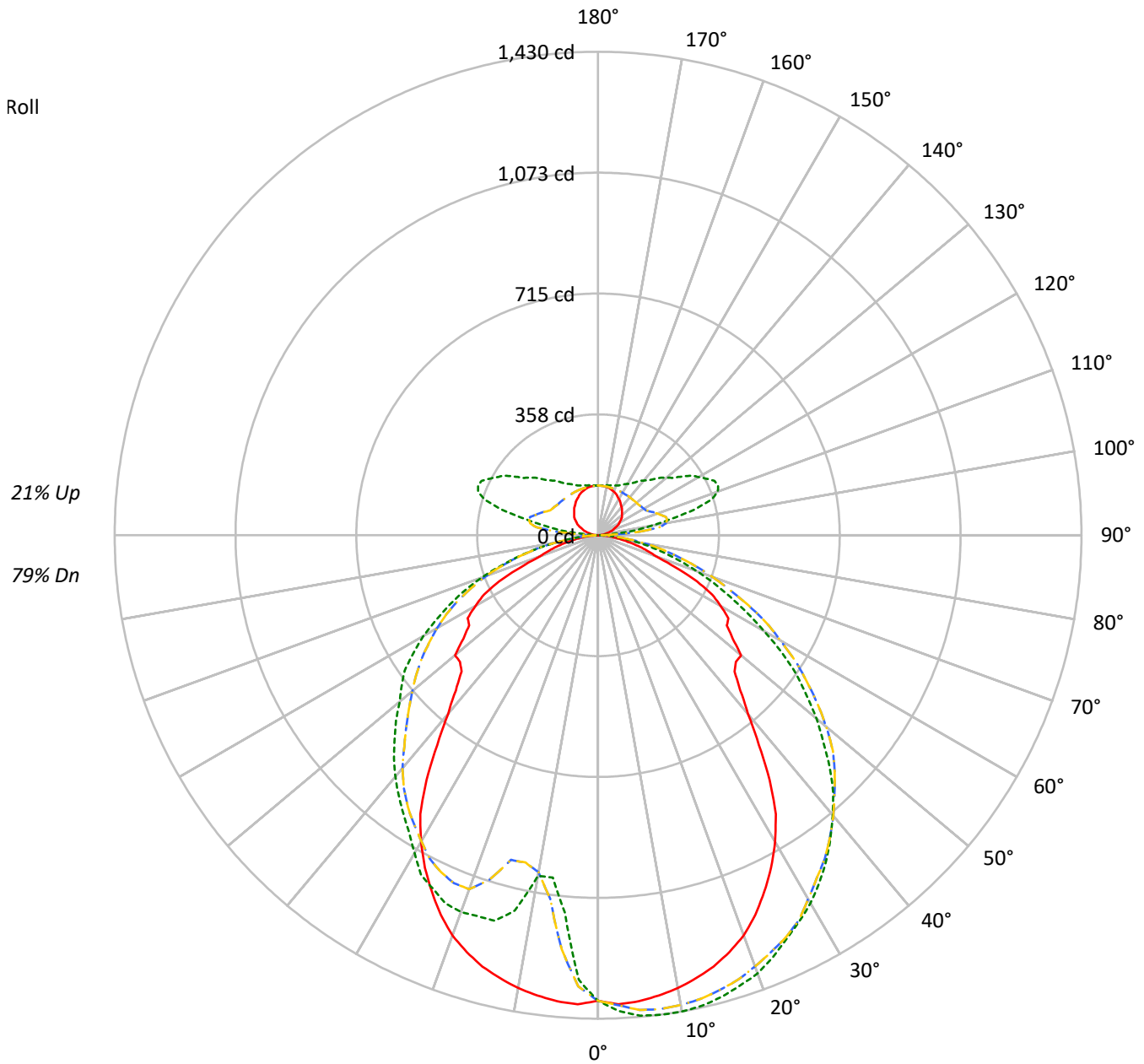
Test Method: LM-79-2019  
Report Number: P934083  
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4524.7 lumens  
Efficiency: N/A  
Efficacy: 116.6 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-Direct  
  
Input Watts (W): 38.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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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	50	30	10
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79		
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67		
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56		
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47		
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41		
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22		
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

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

	0°	90°	180°	270°
0°	12777	12777	12777	12777
5°	12860	12898	12860	10142
10°	12759	12705	12759	9084
15°	12605	12429	12605	10379
20°	12327	12104	12327	10401
25°	11774	11629	11774	10180
30°	11063	11234	11063	9697
35°	9847	10734	9847	9165
40°	8192	10146	8192	8764
45°	7305	9457	7305	8301
50°	7744	8637	7744	7837
55°	7265	7753	7265	7569
60°	7460	6584	7460	6932
65°	6733	5443	6733	6085
70°	4631	4338	4631	5100
75°	4017	3206	4017	3839
80°	3168	2119	3168	2309
85°	1722	1123	1722	954

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11217 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.3	2.7
10°-20°	352.9	7.8
20°-30°	545.5	12.1
30°-40°	651.3	14.4
40°-50°	655.1	14.5
50°-60°	570.0	12.6
60°-70°	404.1	8.9
70°-80°	213.8	4.7
80°-90°	53.8	1.2
90°-100°	71.7	1.6
100°-110°	188.6	4.2
110°-120°	195.5	4.3
120°-130°	156.8	3.5
130°-140°	123.1	2.7
140°-150°	94.5	2.1
150°-160°	68.0	1.5
160°-170°	41.6	0.9
170°-180°	14.1	0.3
0°-30°	1022.8	22.6
0°-40°	1674.0	37.0
0°-60°	2899.1	64.1
0°-90°	3570.9	78.9
90°-120°	455.8	10.1
90°-150°	830.2	18.3
90°-180°	954.0	21.1
0°-180°	4524.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1377	1377	1377	1377	1377	
5°	1384	1426	1384	1122	1384	131
15°	1321	1413	1321	1180	1321	372
25°	1163	1318	1163	1154	1163	534
35°	884	1176	884	1004	884	547
45°	571	969	571	851	571	457
55°	465	715	465	698	465	427
65°	323	431	323	482	323	309
75°	122	204	122	245	122	129
85°	21	52	21	44	21	28
90°	1	4	1	4	1	2
95°	10	43	10	43	10	11
105°	34	295	34	295	34	36
115°	60	380	60	380	60	60
125°	84	303	84	303	84	74
135°	100	235	100	235	100	77
145°	116	191	116	191	116	73
155°	131	164	131	164	131	60
165°	142	153	142	153	142	40
175°	147	148	147	148	147	14
180°	147	147	147	147	147	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1388.7	1388.7	1396.6	1399.1	1399.1	1395.2	1391.3	1395.2	1406.9	1410.9	1409.6
5°	1383.6	1393.9	1408.3	1410.9	1413.4	1412.1	1409.6	1412.1	1425.2	1427.8	1429.1
7.5°	1373.1	1392.6	1410.9	1414.8	1418.7	1414.8	1413.4	1416.1	1429.1	1431.7	1431.7
10°	1360.1	1387.4	1408.3	1410.9	1414.8	1410.9	1410.9	1416.1	1429.1	1431.7	1433.1
12.5°	1341.8	1379.6	1399.1	1401.8	1406.9	1405.6	1404.4	1409.6	1422.6	1425.2	1425.2
15°	1320.9	1365.3	1383.6	1386.1	1395.2	1392.6	1392.6	1397.9	1412.1	1416.1	1414.8
17.5°	1292.4	1347.1	1367.9	1371.8	1378.3	1376.9	1378.3	1383.6	1396.6	1399.1	1400.4
20°	1259.7	1322.3	1347.1	1350.9	1357.4	1357.4	1357.4	1363.9	1376.9	1382.2	1382.2
22.5°	1215.4	1296.2	1322.3	1324.9	1332.7	1332.7	1335.3	1344.4	1356.1	1357.4	1357.4
25°	1163.4	1267.6	1289.7	1297.6	1305.4	1309.2	1313.2	1318.4	1322.3	1320.9	1322.3
27.5°	1108.7	1231.1	1259.7	1264.9	1275.4	1279.3	1284.5	1285.8	1287.1	1291.0	1288.4
30°	1047.4	1180.2	1223.2	1228.5	1245.4	1248.0	1242.9	1245.4	1251.9	1254.6	1257.2
32.5°	978.3	1104.7	1185.5	1197.2	1212.9	1205.0	1203.7	1207.7	1218.1	1218.1	1220.7
35°	884.5	1046.1	1150.4	1160.7	1172.5	1163.4	1168.5	1169.9	1176.4	1180.2	1179.0
37.5°	781.6	995.3	1113.9	1121.7	1130.7	1119.0	1126.9	1130.7	1136.0	1133.4	1133.4
40°	690.5	915.8	1070.9	1076.0	1083.9	1074.7	1082.5	1085.2	1087.8	1085.2	1083.9
42.5°	622.8	828.5	1025.2	1031.8	1026.5	1033.0	1035.7	1040.9	1037.0	1031.8	1031.8
45°	570.6	805.1	975.7	983.5	975.7	986.2	990.0	990.0	978.3	975.7	974.5
47.5°	553.6	758.2	926.2	926.2	922.3	935.3	941.9	932.8	921.0	917.2	917.2
50°	552.4	706.1	858.5	853.3	871.5	887.2	880.7	871.5	862.5	848.1	848.1
52.5°	501.6	642.3	771.2	790.8	819.5	828.5	818.1	809.0	793.3	786.8	781.6
55°	465.1	575.8	691.8	730.8	760.8	772.5	753.0	743.8	720.4	716.5	713.9
57.5°	457.3	479.4	618.8	668.3	704.8	703.5	691.8	674.8	655.3	651.4	650.1
60°	419.4	346.5	540.6	599.3	637.1	633.1	622.8	607.1	588.8	586.3	583.6
62.5°	380.4	251.4	452.1	518.5	571.9	570.6	561.5	538.1	525.0	518.5	513.3
65°	323.1	211.0	321.7	431.2	508.1	510.6	491.1	474.2	459.9	452.1	450.7
67.5°	246.2	172.0	217.5	359.6	446.9	444.2	419.4	411.7	393.4	389.5	381.7
70°	182.4	114.7	151.2	291.9	386.9	380.4	360.9	351.7	334.8	325.7	320.4
72.5°	151.2	92.5	110.7	226.7	325.7	317.9	300.9	290.5	276.2	268.4	263.2
75°	122.5	97.7	84.7	168.0	264.4	259.2	243.6	233.2	221.5	211.0	212.4
77.5°	89.9	91.2	67.7	123.7	209.7	201.9	192.8	179.7	174.5	164.2	164.2
80°	67.7	71.7	50.8	84.7	151.2	151.2	143.3	134.2	125.0	119.9	119.9
82.5°	45.6	45.6	37.8	53.4	102.9	99.0	93.8	91.2	86.0	83.4	83.4
85°	20.8	26.0	23.5	32.5	56.0	58.7	58.7	56.0	54.7	52.1	53.4
87.5°	6.5	11.7	14.3	18.2	28.7	30.0	31.3	31.3	31.3	32.5	32.5
90°	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0	3.7	3.7
92.5°	3.9	10.6	17.4	19.0	26.8	37.2	42.3	37.1	26.6	18.7	17.9
95°	9.5	21.8	34.1	37.2	66.0	104.3	123.5	110.2	83.6	63.7	61.4
97.5°	16.4	27.2	38.1	40.8	88.8	152.8	184.9	176.5	159.6	147.0	142.7
100°	21.7	31.6	41.4	43.9	97.1	168.2	203.7	204.3	205.6	206.5	201.3
102.5°	26.2	35.4	44.7	46.9	101.0	173.0	209.0	219.8	241.2	257.2	252.8
105°	34.0	41.8	49.5	51.5	103.8	173.5	208.4	232.5	280.5	316.5	314.1
107.5°	41.9	49.1	56.4	58.2	104.3	165.8	196.6	230.1	297.1	347.4	348.0
110°	47.2	53.7	60.2	61.9	103.5	159.0	186.7	224.2	299.1	355.3	357.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	52.5	58.7	64.9	66.5	103.5	153.0	177.8	216.1	292.7	350.2	354.0
115°	60.3	66.1	71.8	73.3	104.5	146.2	167.0	203.9	277.8	333.1	338.3
117.5°	68.1	73.4	78.6	79.9	106.5	141.9	159.6	193.0	259.5	309.5	315.3
120°	72.7	77.6	82.5	83.7	108.0	140.4	156.6	187.0	248.0	293.6	299.3
122.5°	77.1	82.0	87.0	88.2	110.2	139.6	154.3	181.7	236.5	277.7	283.2
125°	83.9	88.4	93.0	94.2	113.4	139.0	151.8	175.1	221.8	256.7	261.8
127.5°	89.4	94.1	98.6	99.8	116.4	138.6	149.8	169.8	209.8	239.8	244.1
130°	92.4	97.3	102.2	103.5	118.7	138.9	149.0	166.8	202.4	229.1	233.1
132.5°	95.5	100.5	105.4	106.6	120.5	139.0	148.3	164.3	196.1	220.1	223.6
135°	100.1	104.5	109.1	110.1	122.5	138.9	147.1	160.4	187.1	207.2	210.2
137.5°	104.7	109.2	113.6	114.7	125.4	139.7	146.9	158.2	180.7	197.7	200.3
140°	108.6	112.6	116.7	117.7	127.2	139.9	146.2	156.0	175.5	190.1	192.5
142.5°	111.5	115.3	119.0	120.0	128.8	140.4	146.2	154.8	172.0	184.8	186.8
145°	116.1	119.3	122.7	123.4	130.7	140.4	145.2	152.2	166.2	176.8	178.4
147.5°	120.6	123.7	127.0	127.8	133.6	141.4	145.2	150.8	161.8	170.1	171.4
150°	123.5	126.4	129.4	130.1	135.1	141.9	145.2	149.9	159.2	166.2	167.2
152.5°	126.6	128.8	130.9	131.5	136.1	142.2	145.2	149.2	157.2	163.2	164.0
155°	131.1	132.7	134.4	134.8	138.2	142.9	145.2	148.4	154.8	159.5	160.0
157.5°	134.5	136.1	137.6	138.0	140.4	143.7	145.2	147.7	152.6	156.3	156.7
160°	136.8	137.9	139.2	139.5	141.4	144.0	145.2	147.3	151.5	154.7	154.9
162.5°	139.0	139.9	140.9	141.1	142.5	144.4	145.2	147.0	150.6	153.2	153.4
165°	141.5	142.3	143.2	143.4	144.0	144.8	145.2	146.5	149.1	151.0	151.2
167.5°	143.8	144.2	144.5	144.6	145.1	145.8	146.2	147.0	148.7	150.0	150.1
170°	145.2	145.6	146.0	146.1	146.1	146.2	146.2	147.0	148.7	150.0	150.0
172.5°	146.0	146.1	146.2	146.2	146.2	146.2	146.2	146.9	148.2	149.2	149.1
175°	147.1	147.1	147.1	147.1	146.8	146.4	146.2	146.6	147.5	148.1	148.1
177.5°	147.1	147.1	147.1	147.1	146.9	146.6	146.4	146.7	147.4	147.9	147.8
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1412.1	1408.3	1412.1	1409.6	1410.9	1406.9	1395.2	1391.3	1395.2	1399.1	1399.1
5°	1429.1	1426.5	1429.1	1429.1	1427.8	1425.2	1412.1	1409.6	1412.1	1413.4	1410.9
7.5°	1434.3	1430.4	1434.3	1431.7	1431.7	1429.1	1416.1	1413.4	1414.8	1418.7	1414.8
10°	1434.3	1430.4	1434.3	1433.1	1431.7	1429.1	1416.1	1410.9	1410.9	1414.8	1410.9
12.5°	1427.8	1425.2	1427.8	1425.2	1425.2	1422.6	1409.6	1404.4	1405.6	1406.9	1401.8
15°	1417.4	1413.4	1417.4	1414.8	1416.1	1412.1	1397.9	1392.6	1392.6	1395.2	1386.1
17.5°	1401.8	1396.6	1401.8	1400.4	1399.1	1396.6	1383.6	1378.3	1376.9	1378.3	1371.8
20°	1383.6	1379.6	1383.6	1382.2	1382.2	1376.9	1363.9	1357.4	1357.4	1357.4	1350.9
22.5°	1354.9	1350.9	1354.9	1357.4	1357.4	1356.1	1344.4	1335.3	1332.7	1332.7	1324.9
25°	1322.3	1318.4	1322.3	1322.3	1320.9	1322.3	1318.4	1313.2	1309.2	1305.4	1297.6
27.5°	1291.0	1288.4	1291.0	1288.4	1291.0	1287.1	1285.8	1284.5	1279.3	1275.4	1264.9
30°	1259.7	1257.2	1259.7	1257.2	1254.6	1251.9	1245.4	1242.9	1248.0	1245.4	1228.5
32.5°	1220.7	1218.1	1220.7	1220.7	1218.1	1218.1	1207.7	1203.7	1205.0	1212.9	1197.2
35°	1180.2	1176.4	1180.2	1179.0	1180.2	1176.4	1169.9	1168.5	1163.4	1172.5	1160.7
37.5°	1133.4	1129.5	1133.4	1133.4	1133.4	1136.0	1130.7	1126.9	1119.0	1130.7	1121.7
40°	1085.2	1080.0	1085.2	1083.9	1085.2	1087.8	1085.2	1082.5	1074.7	1083.9	1076.0
42.5°	1030.5	1029.2	1030.5	1031.8	1031.8	1037.0	1040.9	1035.7	1033.0	1026.5	1031.8
45°	971.8	969.2	971.8	974.5	975.7	978.3	990.0	990.0	986.2	975.7	983.5
47.5°	909.3	902.8	909.3	917.2	917.2	921.0	932.8	941.9	935.3	922.3	926.2
50°	842.8	844.2	842.8	848.1	848.1	862.5	871.5	880.7	887.2	871.5	853.3
52.5°	777.8	776.5	777.8	781.6	786.8	793.3	809.0	818.1	828.5	819.5	790.8
55°	712.6	715.2	712.6	713.9	716.5	720.4	743.8	753.0	772.5	760.8	730.8
57.5°	647.5	643.6	647.5	650.1	651.4	655.3	674.8	691.8	703.5	704.8	668.3
60°	571.9	566.7	571.9	583.6	586.3	588.8	607.1	622.8	633.1	637.1	599.3
62.5°	505.4	496.4	505.4	513.3	518.5	525.0	538.1	561.5	570.6	571.9	518.5
65°	435.1	431.2	435.1	450.7	452.1	459.9	474.2	491.1	510.6	508.1	431.2
67.5°	371.3	371.3	371.3	381.7	389.5	393.4	411.7	419.4	444.2	446.9	359.6
70°	312.7	311.4	312.7	320.4	325.7	334.8	351.7	360.9	380.4	386.9	291.9
72.5°	256.7	255.4	256.7	263.2	268.4	276.2	290.5	300.9	317.9	325.7	226.7
75°	207.2	204.5	207.2	212.4	211.0	221.5	233.2	243.6	259.2	264.4	168.0
77.5°	158.9	158.9	158.9	164.2	164.2	174.5	179.7	192.8	201.9	209.7	123.7
80°	118.5	117.2	118.5	119.9	119.9	125.0	134.2	143.3	151.2	151.2	84.7
82.5°	83.4	80.8	83.4	83.4	83.4	86.0	91.2	93.8	99.0	102.9	53.4
85°	52.1	52.1	52.1	53.4	52.1	54.7	56.0	58.7	58.7	56.0	32.5
87.5°	33.9	32.5	33.9	32.5	32.5	31.3	31.3	31.3	30.0	28.7	18.2
90°	3.7	3.7	3.7	3.7	3.7	5.0	6.7	7.5	6.4	4.3	2.8
92.5°	15.0	12.0	15.0	17.9	18.7	26.6	37.1	42.3	37.2	26.8	19.0
95°	52.5	43.4	52.5	61.4	63.7	83.6	110.2	123.5	104.3	66.0	37.2
97.5°	125.5	108.4	125.5	142.7	147.0	159.6	176.5	184.9	152.8	88.8	40.8
100°	180.9	160.4	180.9	201.3	206.5	205.6	204.3	203.7	168.2	97.1	43.9
102.5°	235.3	217.7	235.3	252.8	257.2	241.2	219.8	209.0	173.0	101.0	46.9
105°	304.8	295.3	304.8	314.1	316.5	280.5	232.5	208.4	173.5	103.8	51.5
107.5°	350.2	352.5	350.2	348.0	347.4	297.1	230.1	196.6	165.8	104.3	58.2
110°	367.5	377.3	367.5	357.7	355.3	299.1	224.2	186.7	159.0	103.5	61.9





TEST NUMBER: P934083

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	369.1	384.1	369.1	354.0	350.2	292.7	216.1	177.8	153.0	103.5	66.5
115°	359.3	380.2	359.3	338.3	333.1	277.8	203.9	167.0	146.2	104.5	73.3
117.5°	338.5	361.8	338.5	315.3	309.5	259.5	193.0	159.6	141.9	106.5	79.9
120°	321.8	344.3	321.8	299.3	293.6	248.0	187.0	156.6	140.4	108.0	83.7
122.5°	305.5	327.7	305.5	283.2	277.7	236.5	181.7	154.3	139.6	110.2	88.2
125°	282.3	302.8	282.3	261.8	256.7	221.8	175.1	151.8	139.0	113.4	94.2
127.5°	261.4	278.6	261.4	244.1	239.8	209.8	169.8	149.8	138.6	116.4	99.8
130°	249.1	265.0	249.1	233.1	229.1	202.4	166.8	149.0	138.9	118.7	103.5
132.5°	237.9	252.2	237.9	223.6	220.1	196.1	164.3	148.3	139.0	120.5	106.6
135°	222.6	235.0	222.6	210.2	207.2	187.1	160.4	147.1	138.9	122.5	110.1
137.5°	210.3	220.5	210.3	200.3	197.7	180.7	158.2	146.9	139.7	125.4	114.7
140°	201.8	211.3	201.8	192.5	190.1	175.5	156.0	146.2	139.9	127.2	117.7
142.5°	194.9	203.0	194.9	186.8	184.8	172.0	154.8	146.2	140.4	128.8	120.0
145°	184.5	190.6	184.5	178.4	176.8	166.2	152.2	145.2	140.4	130.7	123.4
147.5°	176.4	181.5	176.4	171.4	170.1	161.8	150.8	145.2	141.4	133.6	127.8
150°	171.4	175.5	171.4	167.2	166.2	159.2	149.9	145.2	141.9	135.1	130.1
152.5°	167.0	170.2	167.0	164.0	163.2	157.2	149.2	145.2	142.2	136.1	131.5
155°	162.1	164.2	162.1	160.0	159.5	154.8	148.4	145.2	142.9	138.2	134.8
157.5°	158.2	159.6	158.2	156.7	156.3	152.6	147.7	145.2	143.7	140.4	138.0
160°	155.8	156.6	155.8	154.9	154.7	151.5	147.3	145.2	144.0	141.4	139.5
162.5°	154.2	155.0	154.2	153.4	153.2	150.6	147.0	145.2	144.4	142.5	141.1
165°	152.0	152.8	152.0	151.2	151.0	149.1	146.5	145.2	144.8	144.0	143.4
167.5°	150.4	150.8	150.4	150.1	150.0	148.7	147.0	146.2	145.8	145.1	144.6
170°	150.0	150.0	150.0	150.0	150.0	148.7	147.0	146.2	146.2	146.1	146.1
172.5°	148.8	148.5	148.8	149.1	149.2	148.2	146.9	146.2	146.2	146.2	146.2
175°	148.1	148.1	148.1	148.1	148.1	147.5	146.6	146.2	146.4	146.8	147.1
177.5°	147.5	147.1	147.5	147.8	147.9	147.4	146.7	146.4	146.6	146.9	147.1
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



TEST NUMBER: P934083

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1396.6	1388.7	1388.7	1375.7	1370.4	1366.6	1360.1	1340.6	1335.3	1330.1	1337.9
5°	1408.3	1393.9	1383.6	1360.1	1340.6	1332.7	1307.9	1261.1	1229.7	1206.4	1193.4
7.5°	1410.9	1392.6	1373.1	1336.6	1289.7	1268.9	1193.4	1107.4	1083.9	1063.0	1050.0
10°	1408.3	1387.4	1360.1	1305.4	1194.6	1158.2	1082.5	1026.5	1012.2	1008.3	1012.2
12.5°	1399.1	1379.6	1341.8	1250.6	1095.6	1070.9	1026.5	994.0	991.4	997.9	1033.0
15°	1383.6	1365.3	1320.9	1177.7	1040.9	1022.7	991.4	979.7	994.0	1039.5	1145.1
17.5°	1367.9	1347.1	1292.4	1106.0	999.2	986.2	964.0	987.5	1068.2	1129.5	1164.7
20°	1347.1	1322.3	1259.7	1053.9	969.2	957.5	947.1	1052.7	1113.9	1136.0	1155.5
22.5°	1322.3	1296.2	1215.4	1017.5	938.0	928.8	935.3	1089.1	1113.9	1129.5	1146.4
25°	1289.7	1267.6	1163.4	988.8	913.2	902.8	927.5	1085.2	1099.5	1103.4	1137.3
27.5°	1259.7	1231.1	1108.7	962.7	883.3	879.3	934.0	1068.2	1078.7	1082.5	1119.0
30°	1223.2	1180.2	1047.4	935.3	852.0	850.7	935.3	1047.4	1044.8	1055.2	1091.7
32.5°	1185.5	1104.7	978.3	901.5	822.0	820.7	926.2	1016.2	1013.5	1027.9	1055.2
35°	1150.4	1046.1	884.5	862.5	784.3	785.5	904.1	979.7	981.0	994.0	1010.9
37.5°	1113.9	995.3	781.6	819.5	747.8	747.8	874.1	945.8	943.2	947.1	970.5
40°	1070.9	915.8	690.5	763.4	713.9	710.0	837.7	909.3	900.2	898.9	931.5
42.5°	1025.2	828.5	622.8	689.1	674.8	669.6	793.3	865.0	848.1	852.0	893.7
45°	975.7	805.1	570.6	582.3	634.4	630.5	745.1	814.2	802.5	813.0	855.9
47.5°	926.2	758.2	553.6	483.3	591.4	590.1	691.8	764.7	758.2	768.6	814.2
50°	858.5	706.1	552.4	414.3	543.3	548.4	627.9	716.5	716.5	725.6	773.8
52.5°	771.2	642.3	501.6	375.2	487.2	502.9	571.9	674.8	677.4	686.6	729.5
55°	691.8	575.8	465.1	345.2	420.8	454.6	517.2	631.8	637.1	646.1	685.3
57.5°	618.8	479.4	457.3	310.1	359.6	392.1	468.9	590.1	592.8	600.6	638.3
60°	540.6	346.5	419.4	272.2	306.2	330.9	424.7	540.6	549.8	554.9	587.6
62.5°	452.1	251.4	380.4	246.2	280.1	285.3	388.2	493.7	505.4	509.4	528.9
65°	321.7	211.0	323.1	224.1	252.7	254.0	349.1	445.6	455.9	462.4	476.8
67.5°	217.5	172.0	246.2	203.2	231.9	233.2	311.4	389.5	403.9	409.1	418.2
70°	151.2	114.7	182.4	181.1	208.4	211.0	271.0	338.7	351.7	355.7	360.9
72.5°	110.7	92.5	151.2	162.9	183.7	186.3	229.2	281.4	294.4	298.4	300.9
75°	84.7	97.7	122.5	142.0	156.3	157.7	187.6	229.2	238.4	241.0	242.3
77.5°	67.7	91.2	89.9	114.7	127.7	125.0	147.2	177.2	185.0	185.0	185.0
80°	50.8	71.7	67.7	82.0	93.8	91.2	105.5	126.4	129.0	131.5	130.3
82.5°	37.8	45.6	45.6	52.1	62.5	59.9	70.3	82.0	82.0	82.0	84.7
85°	23.5	26.0	20.8	27.3	35.2	33.9	39.0	44.3	45.6	45.6	43.0
87.5°	14.3	11.7	6.5	10.5	15.7	15.7	18.2	19.5	18.2	18.2	18.2
90°	2.6	1.8	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0
92.5°	17.4	10.6	3.9	10.6	17.4	19.0	26.8	37.2	42.3	37.1	26.6
95°	34.1	21.8	9.5	21.8	34.1	37.2	66.0	104.3	123.5	110.2	83.6
97.5°	38.1	27.2	16.4	27.2	38.1	40.8	88.8	152.8	184.9	176.5	159.6
100°	41.4	31.6	21.7	31.6	41.4	43.9	97.1	168.2	203.7	204.3	205.6
102.5°	44.7	35.4	26.2	35.4	44.7	46.9	101.0	173.0	209.0	219.8	241.2
105°	49.5	41.8	34.0	41.8	49.5	51.5	103.8	173.5	208.4	232.5	280.5
107.5°	56.4	49.1	41.9	49.1	56.4	58.2	104.3	165.8	196.6	230.1	297.1
110°	60.2	53.7	47.2	53.7	60.2	61.9	103.5	159.0	186.7	224.2	299.1



TEST NUMBER: P934083

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	64.9	58.7	52.5	58.7	64.9	66.5	103.5	153.0	177.8	216.1	292.7
115°	71.8	66.1	60.3	66.1	71.8	73.3	104.5	146.2	167.0	203.9	277.8
117.5°	78.6	73.4	68.1	73.4	78.6	79.9	106.5	141.9	159.6	193.0	259.5
120°	82.5	77.6	72.7	77.6	82.5	83.7	108.0	140.4	156.6	187.0	248.0
122.5°	87.0	82.0	77.1	82.0	87.0	88.2	110.2	139.6	154.3	181.7	236.5
125°	93.0	88.4	83.9	88.4	93.0	94.2	113.4	139.0	151.8	175.1	221.8
127.5°	98.6	94.1	89.4	94.1	98.6	99.8	116.4	138.6	149.8	169.8	209.8
130°	102.2	97.3	92.4	97.3	102.2	103.5	118.7	138.9	149.0	166.8	202.4
132.5°	105.4	100.5	95.5	100.5	105.4	106.6	120.5	139.0	148.3	164.3	196.1
135°	109.1	104.5	100.1	104.5	109.1	110.1	122.5	138.9	147.1	160.4	187.1
137.5°	113.6	109.2	104.7	109.2	113.6	114.7	125.4	139.7	146.9	158.2	180.7
140°	116.7	112.6	108.6	112.6	116.7	117.7	127.2	139.9	146.2	156.0	175.5
142.5°	119.0	115.3	111.5	115.3	119.0	120.0	128.8	140.4	146.2	154.8	172.0
145°	122.7	119.3	116.1	119.3	122.7	123.4	130.7	140.4	145.2	152.2	166.2
147.5°	127.0	123.7	120.6	123.7	127.0	127.8	133.6	141.4	145.2	150.8	161.8
150°	129.4	126.4	123.5	126.4	129.4	130.1	135.1	141.9	145.2	149.9	159.2
152.5°	130.9	128.8	126.6	128.8	130.9	131.5	136.1	142.2	145.2	149.2	157.2
155°	134.4	132.7	131.1	132.7	134.4	134.8	138.2	142.9	145.2	148.4	154.8
157.5°	137.6	136.1	134.5	136.1	137.6	138.0	140.4	143.7	145.2	147.7	152.6
160°	139.2	137.9	136.8	137.9	139.2	139.5	141.4	144.0	145.2	147.3	151.5
162.5°	140.9	139.9	139.0	139.9	140.9	141.1	142.5	144.4	145.2	147.0	150.6
165°	143.2	142.3	141.5	142.3	143.2	143.4	144.0	144.8	145.2	146.5	149.1
167.5°	144.5	144.2	143.8	144.2	144.5	144.6	145.1	145.8	146.2	147.0	148.7
170°	146.0	145.6	145.2	145.6	146.0	146.1	146.1	146.2	146.2	147.0	148.7
172.5°	146.2	146.1	146.0	146.1	146.2	146.2	146.2	146.2	146.2	146.9	148.2
175°	147.1	147.1	147.1	147.1	147.1	147.1	146.8	146.4	146.2	146.6	147.5
177.5°	147.1	147.1	147.1	147.1	147.1	147.1	146.9	146.6	146.4	146.7	147.4
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



TEST NUMBER: P934083

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1328.8	1324.9	1330.1	1315.7	1330.1	1324.9	1328.8	1337.9	1330.1	1335.3	1340.6
5°	1165.9	1159.4	1138.6	1121.7	1138.6	1159.4	1165.9	1193.4	1206.4	1229.7	1261.1
7.5°	1042.2	1037.0	1031.8	1021.3	1031.8	1037.0	1042.2	1050.0	1063.0	1083.9	1107.4
10°	1014.8	1016.2	1024.0	1022.7	1024.0	1016.2	1014.8	1012.2	1008.3	1012.2	1026.5
12.5°	1085.2	1096.9	1139.9	1137.3	1139.9	1096.9	1085.2	1033.0	997.9	991.4	994.0
15°	1165.9	1169.9	1179.0	1180.2	1179.0	1169.9	1165.9	1145.1	1039.5	994.0	979.7
17.5°	1173.7	1175.1	1181.6	1181.6	1181.6	1175.1	1173.7	1164.7	1129.5	1068.2	987.5
20°	1167.2	1169.9	1182.9	1185.5	1182.9	1169.9	1167.2	1155.5	1136.0	1113.9	1052.7
22.5°	1164.7	1169.9	1180.2	1179.0	1180.2	1169.9	1164.7	1146.4	1129.5	1113.9	1089.1
25°	1151.6	1151.6	1152.9	1154.2	1152.9	1151.6	1151.6	1137.3	1103.4	1099.5	1085.2
27.5°	1124.2	1126.9	1134.7	1133.4	1134.7	1126.9	1124.2	1119.0	1082.5	1078.7	1068.2
30°	1099.5	1096.9	1090.4	1085.2	1090.4	1096.9	1099.5	1091.7	1055.2	1044.8	1047.4
32.5°	1057.8	1051.3	1044.8	1040.9	1044.8	1051.3	1057.8	1055.2	1027.9	1013.5	1016.2
35°	1008.3	1009.7	1008.3	1004.4	1008.3	1009.7	1008.3	1010.9	994.0	981.0	979.7
37.5°	973.2	975.7	974.5	969.2	974.5	975.7	973.2	970.5	947.1	943.2	945.8
40°	936.7	938.0	936.7	932.8	936.7	938.0	936.7	931.5	898.9	900.2	909.3
42.5°	901.5	900.2	896.3	893.7	896.3	900.2	901.5	893.7	852.0	848.1	865.0
45°	861.1	862.5	854.6	850.7	854.6	862.5	861.1	855.9	813.0	802.5	814.2
47.5°	820.7	820.7	814.2	810.3	814.2	820.7	820.7	814.2	768.6	758.2	764.7
50°	777.8	776.5	767.3	766.0	767.3	776.5	777.8	773.8	725.6	716.5	716.5
52.5°	728.3	728.3	729.5	732.1	729.5	728.3	728.3	729.5	686.6	677.4	674.8
55°	685.3	686.6	695.6	698.3	695.6	686.6	685.3	685.3	646.1	637.1	631.8
57.5°	640.9	640.9	647.5	647.5	647.5	640.9	640.9	638.3	600.6	592.8	590.1
60°	590.1	592.8	597.9	596.6	597.9	592.8	590.1	587.6	554.9	549.8	540.6
62.5°	536.7	539.3	540.6	538.1	540.6	539.3	536.7	528.9	509.4	505.4	493.7
65°	480.7	483.3	484.6	482.1	484.6	483.3	480.7	476.8	462.4	455.9	445.6
67.5°	423.4	422.1	420.8	426.0	420.8	422.1	423.4	418.2	409.1	403.9	389.5
70°	364.7	364.7	363.4	366.1	363.4	364.7	364.7	360.9	355.7	351.7	338.7
72.5°	302.2	300.9	306.2	302.2	306.2	300.9	302.2	300.9	298.4	294.4	281.4
75°	241.0	243.6	241.0	244.9	241.0	243.6	241.0	242.3	241.0	238.4	229.2
77.5°	183.7	186.3	183.7	183.7	183.7	186.3	183.7	185.0	185.0	185.0	177.2
80°	130.3	129.0	129.0	127.7	129.0	129.0	130.3	130.3	131.5	129.0	126.4
82.5°	83.4	82.0	82.0	84.7	82.0	82.0	83.4	84.7	82.0	82.0	82.0
85°	45.6	46.9	44.3	44.3	44.3	46.9	45.6	43.0	45.6	45.6	44.3
87.5°	17.0	15.7	15.7	15.7	15.7	15.7	17.0	18.2	18.2	18.2	19.5
90°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.7	7.5	6.4
92.5°	18.7	17.9	15.0	12.0	15.0	17.9	18.7	26.6	37.1	42.3	37.2
95°	63.7	61.4	52.5	43.4	52.5	61.4	63.7	83.6	110.2	123.5	104.3
97.5°	147.0	142.7	125.5	108.4	125.5	142.7	147.0	159.6	176.5	184.9	152.8
100°	206.5	201.3	180.9	160.4	180.9	201.3	206.5	205.6	204.3	203.7	168.2
102.5°	257.2	252.8	235.3	217.7	235.3	252.8	257.2	241.2	219.8	209.0	173.0
105°	316.5	314.1	304.8	295.3	304.8	314.1	316.5	280.5	232.5	208.4	173.5
107.5°	347.4	348.0	350.2	352.5	350.2	348.0	347.4	297.1	230.1	196.6	165.8
110°	355.3	357.7	367.5	377.3	367.5	357.7	355.3	299.1	224.2	186.7	159.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	350.2	354.0	369.1	384.1	369.1	354.0	350.2	292.7	216.1	177.8	153.0
115°	333.1	338.3	359.3	380.2	359.3	338.3	333.1	277.8	203.9	167.0	146.2
117.5°	309.5	315.3	338.5	361.8	338.5	315.3	309.5	259.5	193.0	159.6	141.9
120°	293.6	299.3	321.8	344.3	321.8	299.3	293.6	248.0	187.0	156.6	140.4
122.5°	277.7	283.2	305.5	327.7	305.5	283.2	277.7	236.5	181.7	154.3	139.6
125°	256.7	261.8	282.3	302.8	282.3	261.8	256.7	221.8	175.1	151.8	139.0
127.5°	239.8	244.1	261.4	278.6	261.4	244.1	239.8	209.8	169.8	149.8	138.6
130°	229.1	233.1	249.1	265.0	249.1	233.1	229.1	202.4	166.8	149.0	138.9
132.5°	220.1	223.6	237.9	252.2	237.9	223.6	220.1	196.1	164.3	148.3	139.0
135°	207.2	210.2	222.6	235.0	222.6	210.2	207.2	187.1	160.4	147.1	138.9
137.5°	197.7	200.3	210.3	220.5	210.3	200.3	197.7	180.7	158.2	146.9	139.7
140°	190.1	192.5	201.8	211.3	201.8	192.5	190.1	175.5	156.0	146.2	139.9
142.5°	184.8	186.8	194.9	203.0	194.9	186.8	184.8	172.0	154.8	146.2	140.4
145°	176.8	178.4	184.5	190.6	184.5	178.4	176.8	166.2	152.2	145.2	140.4
147.5°	170.1	171.4	176.4	181.5	176.4	171.4	170.1	161.8	150.8	145.2	141.4
150°	166.2	167.2	171.4	175.5	171.4	167.2	166.2	159.2	149.9	145.2	141.9
152.5°	163.2	164.0	167.0	170.2	167.0	164.0	163.2	157.2	149.2	145.2	142.2
155°	159.5	160.0	162.1	164.2	162.1	160.0	159.5	154.8	148.4	145.2	142.9
157.5°	156.3	156.7	158.2	159.6	158.2	156.7	156.3	152.6	147.7	145.2	143.7
160°	154.7	154.9	155.8	156.6	155.8	154.9	154.7	151.5	147.3	145.2	144.0
162.5°	153.2	153.4	154.2	155.0	154.2	153.4	153.2	150.6	147.0	145.2	144.4
165°	151.0	151.2	152.0	152.8	152.0	151.2	151.0	149.1	146.5	145.2	144.8
167.5°	150.0	150.1	150.4	150.8	150.4	150.1	150.0	148.7	147.0	146.2	145.8
170°	150.0	150.0	150.0	150.0	150.0	150.0	150.0	148.7	147.0	146.2	146.2
172.5°	149.2	149.1	148.8	148.5	148.8	149.1	149.2	148.2	146.9	146.2	146.2
175°	148.1	148.1	148.1	148.1	148.1	148.1	148.1	147.5	146.6	146.2	146.4
177.5°	147.9	147.8	147.5	147.1	147.5	147.8	147.9	147.4	146.7	146.4	146.6
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1360.1	1366.6	1370.4	1375.7	1388.7
5°	1307.9	1332.7	1340.6	1360.1	1383.6
7.5°	1193.4	1268.9	1289.7	1336.6	1373.1
10°	1082.5	1158.2	1194.6	1305.4	1360.1
12.5°	1026.5	1070.9	1095.6	1250.6	1341.8
15°	991.4	1022.7	1040.9	1177.7	1320.9
17.5°	964.0	986.2	999.2	1106.0	1292.4
20°	947.1	957.5	969.2	1053.9	1259.7
22.5°	935.3	928.8	938.0	1017.5	1215.4
25°	927.5	902.8	913.2	988.8	1163.4
27.5°	934.0	879.3	883.3	962.7	1108.7
30°	935.3	850.7	852.0	935.3	1047.4
32.5°	926.2	820.7	822.0	901.5	978.3
35°	904.1	785.5	784.3	862.5	884.5
37.5°	874.1	747.8	747.8	819.5	781.6
40°	837.7	710.0	713.9	763.4	690.5
42.5°	793.3	669.6	674.8	689.1	622.8
45°	745.1	630.5	634.4	582.3	570.6
47.5°	691.8	590.1	591.4	483.3	553.6
50°	627.9	548.4	543.3	414.3	552.4
52.5°	571.9	502.9	487.2	375.2	501.6
55°	517.2	454.6	420.8	345.2	465.1
57.5°	468.9	392.1	359.6	310.1	457.3
60°	424.7	330.9	306.2	272.2	419.4
62.5°	388.2	285.3	280.1	246.2	380.4
65°	349.1	254.0	252.7	224.1	323.1
67.5°	311.4	233.2	231.9	203.2	246.2
70°	271.0	211.0	208.4	181.1	182.4
72.5°	229.2	186.3	183.7	162.9	151.2
75°	187.6	157.7	156.3	142.0	122.5
77.5°	147.2	125.0	127.7	114.7	89.9
80°	105.5	91.2	93.8	82.0	67.7
82.5°	70.3	59.9	62.5	52.1	45.6
85°	39.0	33.9	35.2	27.3	20.8
87.5°	18.2	15.7	15.7	10.5	6.5
90°	4.3	2.8	2.6	1.8	1.0
92.5°	26.8	19.0	17.4	10.6	3.9
95°	66.0	37.2	34.1	21.8	9.5
97.5°	88.8	40.8	38.1	27.2	16.4
100°	97.1	43.9	41.4	31.6	21.7
102.5°	101.0	46.9	44.7	35.4	26.2
105°	103.8	51.5	49.5	41.8	34.0
107.5°	104.3	58.2	56.4	49.1	41.9
110°	103.5	61.9	60.2	53.7	47.2



TEST NUMBER: P934083

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	103.5	66.5	64.9	58.7	52.5
115°	104.5	73.3	71.8	66.1	60.3
117.5°	106.5	79.9	78.6	73.4	68.1
120°	108.0	83.7	82.5	77.6	72.7
122.5°	110.2	88.2	87.0	82.0	77.1
125°	113.4	94.2	93.0	88.4	83.9
127.5°	116.4	99.8	98.6	94.1	89.4
130°	118.7	103.5	102.2	97.3	92.4
132.5°	120.5	106.6	105.4	100.5	95.5
135°	122.5	110.1	109.1	104.5	100.1
137.5°	125.4	114.7	113.6	109.2	104.7
140°	127.2	117.7	116.7	112.6	108.6
142.5°	128.8	120.0	119.0	115.3	111.5
145°	130.7	123.4	122.7	119.3	116.1
147.5°	133.6	127.8	127.0	123.7	120.6
150°	135.1	130.1	129.4	126.4	123.5
152.5°	136.1	131.5	130.9	128.8	126.6
155°	138.2	134.8	134.4	132.7	131.1
157.5°	140.4	138.0	137.6	136.1	134.5
160°	141.4	139.5	139.2	137.9	136.8
162.5°	142.5	141.1	140.9	139.9	139.0
165°	144.0	143.4	143.2	142.3	141.5
167.5°	145.1	144.6	144.5	144.2	143.8
170°	146.1	146.1	146.0	145.6	145.2
172.5°	146.2	146.2	146.2	146.1	146.0
175°	146.8	147.1	147.1	147.1	147.1
177.5°	146.9	147.1	147.1	147.1	147.1
180°	147.1	147.1	147.1	147.1	147.1



TEST NUMBER: P934083  
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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	15.98	17.18	16.64	17.86	18.64	18.78	19.98	19.44	20.65	21.44
	3H	16.48	17.56	17.16	18.25	19.07	20.14	21.22	20.81	21.90	22.73
	4H	16.69	17.70	17.38	18.40	19.24	20.59	21.61	21.29	22.31	23.14
	6H	16.82	17.76	17.53	18.47	19.32	20.88	21.82	21.59	22.53	23.38
	8H	16.84	17.73	17.55	18.46	19.31	20.96	21.86	21.68	22.59	23.44
	12H	16.82	17.67	17.54	18.39	19.27	21.01	21.86	21.74	22.59	23.47
4H	2H	17.04	18.06	17.74	18.76	19.59	19.23	20.24	19.93	20.94	21.78
	3H	18.10	18.95	18.81	19.69	20.54	20.75	21.60	21.47	22.34	23.19
	4H	18.39	19.16	19.12	19.90	20.78	21.29	22.06	22.02	22.80	23.68
	6H	18.54	19.20	19.28	19.97	20.86	21.67	22.33	22.41	23.10	23.99
	8H	18.55	19.17	19.30	19.93	20.84	21.78	22.40	22.53	23.16	24.06
	12H	18.53	19.09	19.30	19.88	20.79	21.84	22.40	22.62	23.19	24.10
8H	4H	18.87	19.49	19.62	20.25	21.15	21.44	22.07	22.19	22.83	23.73
	6H	19.14	19.66	19.92	20.46	21.37	21.88	22.40	22.67	23.20	24.11
	8H	19.19	19.65	19.98	20.45	21.37	22.03	22.49	22.83	23.30	24.22
	12H	19.19	19.59	19.98	20.39	21.37	22.14	22.55	22.94	23.34	24.32
12H	4H	18.89	19.45	19.66	20.23	21.14	21.42	21.98	22.19	22.77	23.68
	6H	19.20	19.66	20.00	20.47	21.39	21.88	22.34	22.68	23.15	24.07
	8H	19.29	19.69	20.08	20.49	21.47	22.06	22.46	22.85	23.25	24.24