

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: P934522

Luminaire Tested: SQ4-FA-050U-125D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

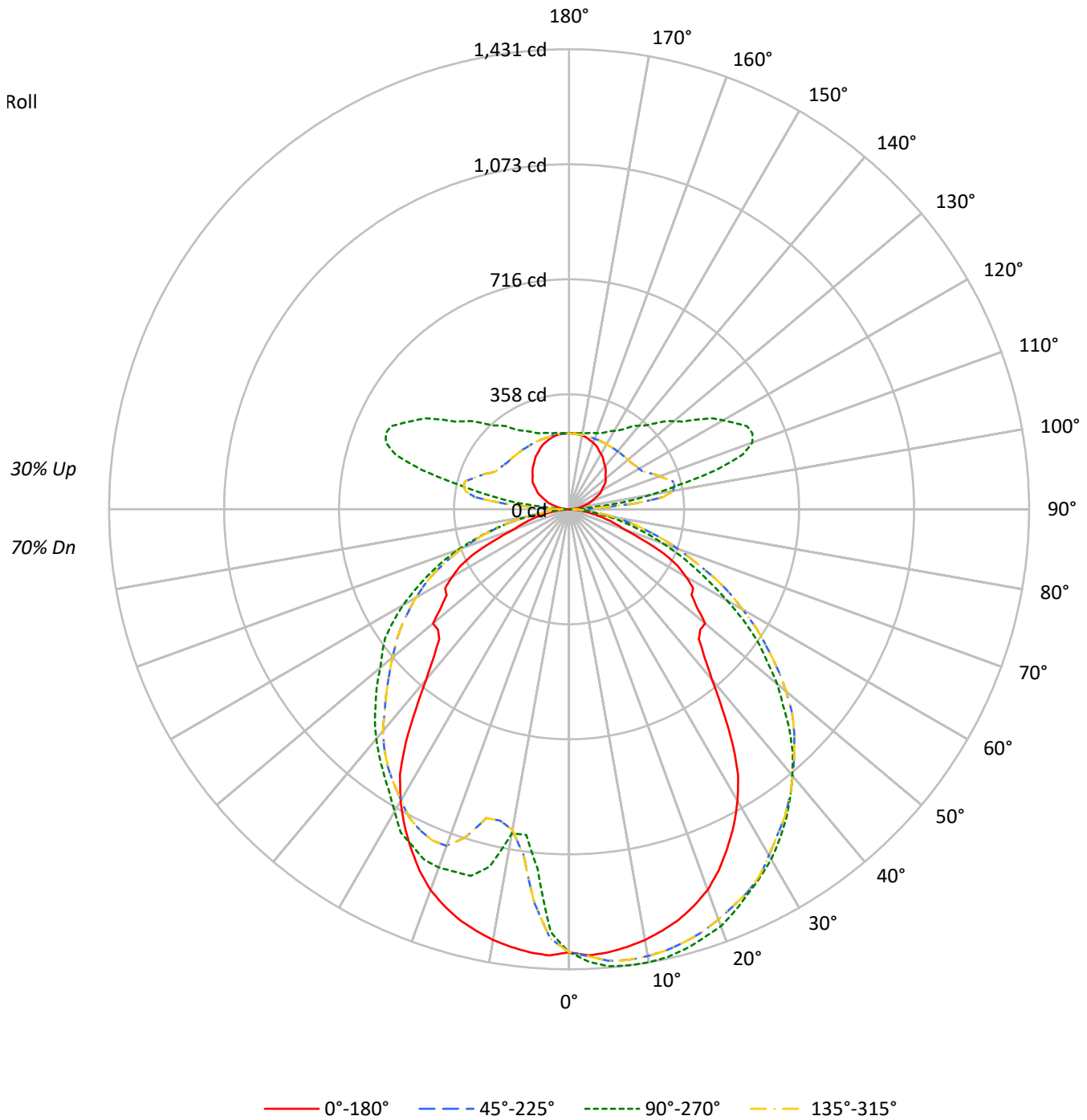
Test Method: LM-79-2019  
Report Number: P934522  
REPORT IS A COMBINATION OF REPORTS P933702 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-125D-927-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5105.1 lumens  
Efficiency: N/A  
Efficacy: 91.2 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): 56  
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

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

	0°	90°	180°	270°
0°	12781	12781	12781	12781
5°	12862	12902	12862	10145
10°	12762	12709	12762	9086
15°	12609	12434	12609	10382
20°	12331	12108	12331	10404
25°	11776	11631	11776	10183
30°	11066	11237	11066	9700
35°	9850	10737	9850	9168
40°	8193	10148	8193	8765
45°	7307	9460	7307	8303
50°	7745	8639	7745	7839
55°	7266	7755	7266	7572
60°	7464	6587	7464	6934
65°	6735	5445	6735	6087
70°	4631	4340	4631	5100
75°	4017	3208	4017	3841
80°	3173	2121	3173	2309
85°	1731	1123	1731	954

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11221 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.3	2.4
10°-20°	353.0	6.9
20°-30°	545.7	10.7
30°-40°	651.4	12.8
40°-50°	655.3	12.8
50°-60°	570.2	11.2
60°-70°	404.2	7.9
70°-80°	213.9	4.2
80°-90°	54.2	1.1
90°-100°	115.3	2.3
100°-110°	303.0	5.9
110°-120°	314.2	6.2
120°-130°	252.0	4.9
130°-140°	197.8	3.9
140°-150°	151.8	3.0
150°-160°	109.3	2.1
160°-170°	66.9	1.3
170°-180°	22.6	0.4
0°-30°	1023.0	20.0
0°-40°	1674.5	32.8
0°-60°	2899.9	56.8
0°-90°	3572.2	70.0
90°-120°	732.5	14.3
90°-150°	1334.1	26.1
90°-180°	1533.0	30.0
0°-180°	5105.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1377	1377	1377	1377	1377	
5°	1384	1427	1384	1122	1384	131
15°	1321	1414	1321	1181	1321	372
25°	1164	1319	1164	1154	1164	534
35°	885	1177	885	1005	885	547
45°	571	970	571	851	571	457
55°	465	715	465	698	465	427
65°	323	431	323	482	323	309
75°	122	205	122	245	122	129
85°	21	52	21	44	21	28
90°	2	6	2	6	2	2
95°	15	70	15	70	15	17
105°	55	475	55	475	55	58
115°	97	611	97	611	97	96
125°	135	487	135	487	135	120
135°	161	378	161	378	161	124
145°	186	306	186	306	186	117
155°	211	264	211	264	211	97
165°	228	246	228	246	228	64
175°	236	238	236	238	236	22
180°	236	236	236	236	236	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1389.1	1389.1	1396.9	1399.6	1399.6	1395.6	1391.7	1395.6	1407.3	1411.3	1409.9
5°	1383.8	1394.3	1408.6	1411.3	1413.9	1412.6	1409.9	1412.6	1425.6	1428.2	1429.5
7.5°	1373.4	1393.0	1411.3	1415.2	1419.0	1415.2	1413.9	1416.5	1429.5	1432.1	1432.1
10°	1360.4	1387.8	1408.6	1411.3	1415.2	1411.3	1411.3	1416.5	1429.5	1432.1	1433.4
12.5°	1342.2	1380.0	1399.6	1402.1	1407.3	1406.0	1404.7	1409.9	1423.0	1425.6	1425.6
15°	1321.3	1365.7	1383.8	1386.5	1395.6	1393.0	1393.0	1398.2	1412.6	1416.5	1415.2
17.5°	1292.7	1347.4	1368.2	1372.1	1378.7	1377.4	1378.7	1383.8	1396.9	1399.6	1400.8
20°	1260.1	1322.6	1347.4	1351.3	1357.8	1357.8	1357.8	1364.4	1377.4	1382.6	1382.6
22.5°	1215.8	1296.6	1322.6	1325.2	1333.0	1333.0	1335.6	1344.8	1356.5	1357.8	1357.8
25°	1163.6	1267.9	1290.1	1297.9	1305.7	1309.6	1313.5	1318.7	1322.6	1321.3	1322.6
27.5°	1109.0	1231.4	1260.1	1265.3	1275.7	1279.7	1284.8	1286.1	1287.4	1291.4	1288.7
30°	1047.7	1180.6	1223.6	1228.8	1245.8	1248.3	1243.2	1245.8	1252.3	1254.9	1257.5
32.5°	978.6	1105.0	1185.8	1197.5	1213.2	1205.4	1204.0	1208.0	1218.4	1218.4	1221.0
35°	884.8	1046.4	1150.6	1161.1	1172.8	1163.6	1168.9	1170.2	1176.7	1180.6	1179.3
37.5°	781.9	995.5	1114.1	1122.0	1131.1	1119.3	1127.2	1131.1	1136.3	1133.7	1133.7
40°	690.6	916.1	1071.1	1076.4	1084.2	1075.1	1082.9	1085.5	1088.1	1085.5	1084.2
42.5°	622.9	828.8	1025.6	1032.0	1026.8	1033.3	1036.0	1041.2	1037.3	1032.0	1032.0
45°	570.7	805.3	976.0	983.8	976.0	986.4	990.4	990.4	978.6	976.0	974.7
47.5°	553.8	758.4	926.5	926.5	922.6	935.6	942.1	933.0	921.3	917.4	917.4
50°	552.5	706.2	858.7	853.5	871.8	887.4	880.9	871.8	862.6	848.3	848.3
52.5°	501.7	642.4	771.5	790.9	819.7	828.8	818.4	809.2	793.6	787.1	781.9
55°	465.2	576.0	691.9	731.0	761.0	772.7	753.2	744.1	720.6	716.7	714.1
57.5°	457.4	479.6	619.0	668.5	704.9	703.7	691.9	675.0	655.4	651.6	650.3
60°	419.6	346.7	540.8	599.4	637.2	633.3	622.9	607.2	589.0	586.4	583.8
62.5°	380.5	251.5	452.1	518.6	572.0	570.7	561.6	538.2	525.1	518.6	513.4
65°	323.2	211.1	321.9	431.4	508.2	510.8	491.3	474.3	460.0	452.1	450.8
67.5°	246.2	172.0	217.6	359.7	447.0	444.4	419.6	411.8	393.5	389.6	381.8
70°	182.4	114.7	151.2	291.9	387.0	380.5	361.0	351.8	334.9	325.8	320.6
72.5°	151.2	92.6	110.7	226.8	325.8	317.9	301.0	290.6	276.3	268.4	263.2
75°	122.5	97.7	84.7	168.1	264.5	259.3	243.7	233.2	221.5	211.1	212.4
77.5°	89.9	91.2	67.8	123.8	209.8	202.0	192.9	179.8	174.6	164.2	164.2
80°	67.8	71.7	50.8	84.7	151.2	151.2	143.4	134.2	125.1	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°	20.9	26.0	23.5	32.6	56.1	58.7	58.7	56.1	54.7	52.1	53.4
87.5°	6.5	11.7	14.3	18.2	28.6	30.0	31.3	31.3	31.3	32.6	32.6
90°	1.6	2.8	4.2	4.5	7.0	10.4	12.1	10.7	8.0	6.0	6.0
92.5°	6.3	17.1	28.0	30.6	43.0	59.6	67.9	59.5	42.7	30.2	29.0
95°	15.2	35.0	54.7	59.7	106.0	167.6	198.5	177.1	134.4	102.3	98.7
97.5°	26.3	43.7	61.1	65.5	142.7	245.6	297.1	283.6	256.6	236.3	229.4
100°	34.9	50.7	66.5	70.5	156.1	270.3	327.4	328.4	330.4	331.9	323.6
102.5°	42.2	57.0	71.7	75.4	162.2	278.0	336.0	353.2	387.6	413.4	406.3
105°	54.6	67.1	79.5	82.7	166.8	279.0	335.0	373.6	450.8	508.7	504.9
107.5°	67.3	78.9	90.6	93.5	167.6	266.6	316.0	369.8	477.5	558.2	559.1
110°	75.8	86.3	96.9	99.5	166.4	255.6	300.1	360.3	480.6	570.9	574.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	84.2	94.2	104.3	106.8	166.4	245.9	285.7	347.3	470.4	562.8	568.9
115°	96.9	106.2	115.4	117.7	167.9	234.8	268.3	327.6	446.3	535.3	543.7
117.5°	109.5	117.9	126.3	128.4	171.1	228.0	256.5	310.0	417.0	497.3	506.7
120°	116.8	124.7	132.6	134.6	173.6	225.7	251.7	300.6	398.5	471.9	480.9
122.5°	124.0	132.0	139.9	141.9	177.3	224.5	248.0	292.1	380.2	446.3	455.2
125°	134.9	142.1	149.4	151.2	182.2	223.5	244.1	281.5	356.4	412.5	420.7
127.5°	143.8	151.2	158.5	160.3	187.1	222.9	240.8	272.9	337.1	385.3	392.2
130°	148.5	156.5	164.3	166.3	190.7	223.2	239.5	268.1	325.3	368.2	374.6
132.5°	153.5	161.4	169.2	171.2	193.7	223.5	238.4	264.0	315.2	353.6	359.4
135°	160.8	167.9	175.2	176.9	196.8	223.2	236.5	257.9	300.8	332.9	337.9
137.5°	168.2	175.3	182.5	184.3	201.6	224.6	236.2	254.3	290.5	317.7	321.8
140°	174.4	181.0	187.6	189.2	204.4	224.8	235.0	250.7	282.1	305.5	309.3
142.5°	179.2	185.3	191.3	192.8	206.9	225.6	235.0	248.8	276.3	296.9	300.1
145°	186.5	191.7	197.0	198.4	210.1	225.7	233.5	244.7	267.2	284.1	286.5
147.5°	193.8	199.0	204.0	205.4	214.8	227.2	233.5	242.3	260.0	273.3	275.4
150°	198.5	203.1	207.8	209.0	217.1	228.0	233.5	240.9	255.9	267.1	268.8
152.5°	203.4	207.0	210.5	211.4	218.8	228.5	233.5	239.9	252.6	262.2	263.4
155°	210.7	213.4	216.0	216.6	222.2	229.7	233.5	238.5	248.7	256.3	257.2
157.5°	216.1	218.7	221.2	221.8	225.7	230.8	233.5	237.4	245.3	251.3	251.9
160°	219.8	221.8	223.8	224.2	227.3	231.4	233.5	236.9	243.6	248.7	249.0
162.5°	223.5	224.9	226.4	226.8	229.0	232.0	233.5	236.3	242.0	246.3	246.6
165°	227.5	228.8	230.2	230.5	231.5	232.8	233.5	235.5	239.5	242.6	242.9
167.5°	231.1	231.7	232.3	232.5	233.3	234.5	235.0	236.4	239.1	241.1	241.2
170°	233.5	234.1	234.7	234.8	234.9	235.0	235.0	236.4	239.1	241.1	241.1
172.5°	234.7	234.8	235.0	235.0	235.0	235.0	235.0	236.1	238.2	239.8	239.6
175°	236.5	236.5	236.5	236.5	236.0	235.3	235.0	235.7	237.1	238.1	238.1
177.5°	236.5	236.5	236.5	236.5	236.1	235.6	235.4	235.9	237.0	237.8	237.6
180°	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1412.6	1408.6	1412.6	1409.9	1411.3	1407.3	1395.6	1391.7	1395.6	1399.6	1399.6
5°	1429.5	1426.9	1429.5	1429.5	1428.2	1425.6	1412.6	1409.9	1412.6	1413.9	1411.3
7.5°	1434.7	1430.8	1434.7	1432.1	1432.1	1429.5	1416.5	1413.9	1415.2	1419.0	1415.2
10°	1434.7	1430.8	1434.7	1433.4	1432.1	1429.5	1416.5	1411.3	1411.3	1415.2	1411.3
12.5°	1428.2	1425.6	1428.2	1425.6	1425.6	1423.0	1409.9	1404.7	1406.0	1407.3	1402.1
15°	1417.7	1413.9	1417.7	1415.2	1416.5	1412.6	1398.2	1393.0	1393.0	1395.6	1386.5
17.5°	1402.1	1396.9	1402.1	1400.8	1399.6	1396.9	1383.8	1378.7	1377.4	1378.7	1372.1
20°	1383.8	1380.0	1383.8	1382.6	1382.6	1377.4	1364.4	1357.8	1357.8	1357.8	1351.3
22.5°	1355.2	1351.3	1355.2	1357.8	1357.8	1356.5	1344.8	1335.6	1333.0	1333.0	1325.2
25°	1322.6	1318.7	1322.6	1322.6	1321.3	1322.6	1318.7	1313.5	1309.6	1305.7	1297.9
27.5°	1291.4	1288.7	1291.4	1288.7	1291.4	1287.4	1286.1	1284.8	1279.7	1275.7	1265.3
30°	1260.1	1257.5	1260.1	1257.5	1254.9	1252.3	1245.8	1243.2	1248.3	1245.8	1228.8
32.5°	1221.0	1218.4	1221.0	1221.0	1218.4	1218.4	1208.0	1204.0	1205.4	1213.2	1197.5
35°	1180.6	1176.7	1180.6	1179.3	1180.6	1176.7	1170.2	1168.9	1163.6	1172.8	1161.1
37.5°	1133.7	1129.7	1133.7	1133.7	1133.7	1136.3	1131.1	1127.2	1119.3	1131.1	1122.0
40°	1085.5	1080.2	1085.5	1084.2	1085.5	1088.1	1085.5	1082.9	1075.1	1084.2	1076.4
42.5°	1030.7	1029.4	1030.7	1032.0	1032.0	1037.3	1041.2	1036.0	1033.3	1026.8	1032.0
45°	972.1	969.5	972.1	974.7	976.0	978.6	990.4	990.4	986.4	976.0	983.8
47.5°	909.5	903.1	909.5	917.4	917.4	921.3	933.0	942.1	935.6	922.6	926.5
50°	843.1	844.4	843.1	848.3	848.3	862.6	871.8	880.9	887.4	871.8	853.5
52.5°	777.9	776.6	777.9	781.9	787.1	793.6	809.2	818.4	828.8	819.7	790.9
55°	712.8	715.4	712.8	714.1	716.7	720.6	744.1	753.2	772.7	761.0	731.0
57.5°	647.6	643.7	647.6	650.3	651.6	655.4	675.0	691.9	703.7	704.9	668.5
60°	572.0	566.9	572.0	583.8	586.4	589.0	607.2	622.9	633.3	637.2	599.4
62.5°	505.6	496.5	505.6	513.4	518.6	525.1	538.2	561.6	570.7	572.0	518.6
65°	435.2	431.4	435.2	450.8	452.1	460.0	474.3	491.3	510.8	508.2	431.4
67.5°	371.4	371.4	371.4	381.8	389.6	393.5	411.8	419.6	444.4	447.0	359.7
70°	312.8	311.5	312.8	320.6	325.8	334.9	351.8	361.0	380.5	387.0	291.9
72.5°	256.7	255.4	256.7	263.2	268.4	276.3	290.6	301.0	317.9	325.8	226.8
75°	207.2	204.6	207.2	212.4	211.1	221.5	233.2	243.7	259.3	264.5	168.1
77.5°	159.0	159.0	159.0	164.2	164.2	174.6	179.8	192.9	202.0	209.8	123.8
80°	118.6	117.3	118.6	119.9	119.9	125.1	134.2	143.4	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	56.1	58.7	58.7	56.1	32.6
87.5°	33.9	32.6	33.9	32.6	32.6	31.3	31.3	31.3	30.0	28.6	18.2
90°	6.0	6.0	6.0	6.0	6.0	8.0	10.7	12.1	10.4	7.0	4.5
92.5°	24.2	19.3	24.2	29.0	30.2	42.7	59.5	67.9	59.6	43.0	30.6
95°	84.2	69.7	84.2	98.7	102.3	134.4	177.1	198.5	167.6	106.0	59.7
97.5°	201.7	174.1	201.7	229.4	236.3	256.6	283.6	297.1	245.6	142.7	65.5
100°	290.7	257.7	290.7	323.6	331.9	330.4	328.4	327.4	270.3	156.1	70.5
102.5°	378.1	350.0	378.1	406.3	413.4	387.6	353.2	336.0	278.0	162.2	75.4
105°	489.7	474.6	489.7	504.9	508.7	450.8	373.6	335.0	279.0	166.8	82.7
107.5°	562.7	566.4	562.7	559.1	558.2	477.5	369.8	316.0	266.6	167.6	93.5
110°	590.6	606.4	590.6	574.8	570.9	480.6	360.3	300.1	255.6	166.4	99.5





TEST NUMBER: P934522

CATALOG NUMBER: SQ4-FA-050U-125D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	593.1	617.4	593.1	568.9	562.8	470.4	347.3	285.7	245.9	166.4	106.8
115°	577.3	611.0	577.3	543.7	535.3	446.3	327.6	268.3	234.8	167.9	117.7
117.5°	544.0	581.4	544.0	506.7	497.3	417.0	310.0	256.5	228.0	171.1	128.4
120°	517.1	553.4	517.1	480.9	471.9	398.5	300.6	251.7	225.7	173.6	134.6
122.5°	491.0	526.8	491.0	455.2	446.3	380.2	292.1	248.0	224.5	177.3	141.9
125°	453.6	486.6	453.6	420.7	412.5	356.4	281.5	244.1	223.5	182.2	151.2
127.5°	420.0	447.8	420.0	392.2	385.3	337.1	272.9	240.8	222.9	187.1	160.3
130°	400.3	426.0	400.3	374.6	368.2	325.3	268.1	239.5	223.2	190.7	166.3
132.5°	382.3	405.3	382.3	359.4	353.6	315.2	264.0	238.4	223.5	193.7	171.2
135°	357.7	377.5	357.7	337.9	332.9	300.8	257.9	236.5	223.2	196.8	176.9
137.5°	338.0	354.2	338.0	321.8	317.7	290.5	254.3	236.2	224.6	201.6	184.3
140°	324.5	339.6	324.5	309.3	305.5	282.1	250.7	235.0	224.8	204.4	189.2
142.5°	313.2	326.3	313.2	300.1	296.9	276.3	248.8	235.0	225.6	206.9	192.8
145°	296.4	306.3	296.4	286.5	284.1	267.2	244.7	233.5	225.7	210.1	198.4
147.5°	283.5	291.7	283.5	275.4	273.3	260.0	242.3	233.5	227.2	214.8	205.4
150°	275.4	282.1	275.4	268.8	267.1	255.9	240.9	233.5	228.0	217.1	209.0
152.5°	268.4	273.4	268.4	263.4	262.2	252.6	239.9	233.5	228.5	218.8	211.4
155°	260.5	263.8	260.5	257.2	256.3	248.7	238.5	233.5	229.7	222.2	216.6
157.5°	254.2	256.5	254.2	251.9	251.3	245.3	237.4	233.5	230.8	225.7	221.8
160°	250.4	251.7	250.4	249.0	248.7	243.6	236.9	233.5	231.4	227.3	224.2
162.5°	247.9	249.2	247.9	246.6	246.3	242.0	236.3	233.5	232.0	229.0	226.8
165°	244.3	245.7	244.3	242.9	242.6	239.5	235.5	233.5	232.8	231.5	230.5
167.5°	241.8	242.3	241.8	241.2	241.1	239.1	236.4	235.0	234.5	233.3	232.5
170°	241.1	241.1	241.1	241.1	241.1	239.1	236.4	235.0	235.0	234.9	234.8
172.5°	239.2	238.7	239.2	239.6	239.8	238.2	236.1	235.0	235.0	235.0	235.0
175°	238.1	238.1	238.1	238.1	238.1	237.1	235.7	235.0	235.3	236.0	236.5
177.5°	237.1	236.5	237.1	237.6	237.8	237.0	235.9	235.4	235.6	236.1	236.5
180°	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5



TEST NUMBER: P934522

CATALOG NUMBER: SQ4-FA-050U-125D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1396.9	1389.1	1389.1	1376.1	1370.8	1366.9	1360.4	1340.9	1335.6	1330.5	1338.3
5°	1408.6	1394.3	1383.8	1360.4	1340.9	1333.0	1308.3	1261.4	1230.2	1206.7	1193.7
7.5°	1411.3	1393.0	1373.4	1337.0	1290.1	1269.2	1193.7	1107.6	1084.2	1063.3	1050.3
10°	1408.6	1387.8	1360.4	1305.7	1195.0	1158.5	1082.9	1026.8	1012.5	1008.6	1012.5
12.5°	1399.6	1380.0	1342.2	1250.9	1095.9	1071.1	1026.8	994.2	991.7	998.2	1033.3
15°	1383.8	1365.7	1321.3	1178.0	1041.2	1022.9	991.7	979.9	994.2	1039.9	1145.5
17.5°	1368.2	1347.4	1292.7	1106.3	999.5	986.4	964.3	987.8	1068.5	1129.7	1164.9
20°	1347.4	1322.6	1260.1	1054.2	969.5	957.8	947.3	1052.9	1114.1	1136.3	1155.8
22.5°	1322.6	1296.6	1215.8	1017.7	938.2	929.1	935.6	1089.4	1114.1	1129.7	1146.7
25°	1290.1	1267.9	1163.6	989.1	913.5	903.1	927.8	1085.5	1099.8	1103.7	1137.6
27.5°	1260.1	1231.4	1109.0	963.0	883.5	879.6	934.3	1068.5	1078.9	1082.9	1119.3
30°	1223.6	1180.6	1047.7	935.6	852.2	850.9	935.6	1047.7	1045.0	1055.5	1092.0
32.5°	1185.8	1105.0	978.6	901.7	822.3	821.0	926.5	1016.4	1013.8	1028.1	1055.5
35°	1150.6	1046.4	884.8	862.6	784.5	785.8	904.4	979.9	981.2	994.2	1011.2
37.5°	1114.1	995.5	781.9	819.7	748.0	748.0	874.3	946.0	943.4	947.3	970.8
40°	1071.1	916.1	690.6	763.6	714.1	710.2	837.9	909.5	900.4	899.1	931.7
42.5°	1025.6	828.8	622.9	689.3	675.0	669.8	793.6	865.2	848.3	852.2	893.9
45°	976.0	805.3	570.7	582.5	634.6	630.7	745.4	814.4	802.7	813.1	856.2
47.5°	926.5	758.4	553.8	483.5	591.6	590.3	691.9	764.9	758.4	768.8	814.4
50°	858.7	706.2	552.5	414.4	543.4	548.6	628.1	716.7	716.7	725.8	774.0
52.5°	771.5	642.4	501.7	375.3	487.3	503.0	572.0	675.0	677.6	686.8	729.7
55°	691.9	576.0	465.2	345.3	420.9	454.8	517.4	632.0	637.2	646.3	685.5
57.5°	619.0	479.6	457.4	310.2	359.7	392.2	469.1	590.3	592.9	600.8	638.5
60°	540.8	346.7	419.6	272.3	306.2	330.9	424.8	540.8	549.9	555.1	587.7
62.5°	452.1	251.5	380.5	246.2	280.1	285.4	388.3	493.9	505.6	509.5	529.1
65°	321.9	211.1	323.2	224.1	252.8	254.1	349.2	445.7	456.1	462.6	476.9
67.5°	217.6	172.0	246.2	203.3	231.9	233.2	311.5	389.6	403.9	409.2	418.3
70°	151.2	114.7	182.4	181.1	208.5	211.1	271.0	338.8	351.8	355.7	361.0
72.5°	110.7	92.6	151.2	162.9	183.7	186.3	229.3	281.4	294.5	298.4	301.0
75°	84.7	97.7	122.5	142.1	156.4	157.7	187.6	229.3	238.5	241.1	242.4
77.5°	67.8	91.2	89.9	114.7	127.7	125.1	147.2	177.3	185.0	185.0	185.0
80°	50.8	71.7	67.8	82.1	93.8	91.2	105.6	126.4	129.0	131.6	130.3
82.5°	37.8	45.6	45.6	52.1	62.5	59.9	70.4	82.1	82.1	82.1	84.7
85°	23.5	26.0	20.9	27.3	35.2	33.9	39.1	44.3	45.6	45.6	43.0
87.5°	14.3	11.7	6.5	10.4	15.6	15.6	18.2	19.6	18.2	18.2	18.2
90°	4.2	2.8	1.6	2.8	4.2	4.5	7.0	10.4	12.1	10.7	8.0
92.5°	28.0	17.1	6.3	17.1	28.0	30.6	43.0	59.6	67.9	59.5	42.7
95°	54.7	35.0	15.2	35.0	54.7	59.7	106.0	167.6	198.5	177.1	134.4
97.5°	61.1	43.7	26.3	43.7	61.1	65.5	142.7	245.6	297.1	283.6	256.6
100°	66.5	50.7	34.9	50.7	66.5	70.5	156.1	270.3	327.4	328.4	330.4
102.5°	71.7	57.0	42.2	57.0	71.7	75.4	162.2	278.0	336.0	353.2	387.6
105°	79.5	67.1	54.6	67.1	79.5	82.7	166.8	279.0	335.0	373.6	450.8
107.5°	90.6	78.9	67.3	78.9	90.6	93.5	167.6	266.6	316.0	369.8	477.5
110°	96.9	86.3	75.8	86.3	96.9	99.5	166.4	255.6	300.1	360.3	480.6



TEST NUMBER: P934522

CATALOG NUMBER: SQ4-FA-050U-125D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	104.3	94.2	84.2	94.2	104.3	106.8	166.4	245.9	285.7	347.3	470.4
115°	115.4	106.2	96.9	106.2	115.4	117.7	167.9	234.8	268.3	327.6	446.3
117.5°	126.3	117.9	109.5	117.9	126.3	128.4	171.1	228.0	256.5	310.0	417.0
120°	132.6	124.7	116.8	124.7	132.6	134.6	173.6	225.7	251.7	300.6	398.5
122.5°	139.9	132.0	124.0	132.0	139.9	141.9	177.3	224.5	248.0	292.1	380.2
125°	149.4	142.1	134.9	142.1	149.4	151.2	182.2	223.5	244.1	281.5	356.4
127.5°	158.5	151.2	143.8	151.2	158.5	160.3	187.1	222.9	240.8	272.9	337.1
130°	164.3	156.5	148.5	156.5	164.3	166.3	190.7	223.2	239.5	268.1	325.3
132.5°	169.2	161.4	153.5	161.4	169.2	171.2	193.7	223.5	238.4	264.0	315.2
135°	175.2	167.9	160.8	167.9	175.2	176.9	196.8	223.2	236.5	257.9	300.8
137.5°	182.5	175.3	168.2	175.3	182.5	184.3	201.6	224.6	236.2	254.3	290.5
140°	187.6	181.0	174.4	181.0	187.6	189.2	204.4	224.8	235.0	250.7	282.1
142.5°	191.3	185.3	179.2	185.3	191.3	192.8	206.9	225.6	235.0	248.8	276.3
145°	197.0	191.7	186.5	191.7	197.0	198.4	210.1	225.7	233.5	244.7	267.2
147.5°	204.0	199.0	193.8	199.0	204.0	205.4	214.8	227.2	233.5	242.3	260.0
150°	207.8	203.1	198.5	203.1	207.8	209.0	217.1	228.0	233.5	240.9	255.9
152.5°	210.5	207.0	203.4	207.0	210.5	211.4	218.8	228.5	233.5	239.9	252.6
155°	216.0	213.4	210.7	213.4	216.0	216.6	222.2	229.7	233.5	238.5	248.7
157.5°	221.2	218.7	216.1	218.7	221.2	221.8	225.7	230.8	233.5	237.4	245.3
160°	223.8	221.8	219.8	221.8	223.8	224.2	227.3	231.4	233.5	236.9	243.6
162.5°	226.4	224.9	223.5	224.9	226.4	226.8	229.0	232.0	233.5	236.3	242.0
165°	230.2	228.8	227.5	228.8	230.2	230.5	231.5	232.8	233.5	235.5	239.5
167.5°	232.3	231.7	231.1	231.7	232.3	232.5	233.3	234.5	235.0	236.4	239.1
170°	234.7	234.1	233.5	234.1	234.7	234.8	234.9	235.0	235.0	236.4	239.1
172.5°	235.0	234.8	234.7	234.8	235.0	235.0	235.0	235.0	235.0	236.1	238.2
175°	236.5	236.5	236.5	236.5	236.5	236.5	236.0	235.3	235.0	235.7	237.1
177.5°	236.5	236.5	236.5	236.5	236.5	236.5	236.1	235.6	235.4	235.9	237.0
180°	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5



TEST NUMBER: P934522  
 CATALOG NUMBER: SQ4-FA-050U-125D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1329.2	1325.2	1330.5	1316.1	1330.5	1325.2	1329.2	1338.3	1330.5	1335.6	1340.9
5°	1166.2	1159.8	1138.9	1122.0	1138.9	1159.8	1166.2	1193.7	1206.7	1230.2	1261.4
7.5°	1042.5	1037.3	1032.0	1021.6	1032.0	1037.3	1042.5	1050.3	1063.3	1084.2	1107.6
10°	1015.1	1016.4	1024.3	1022.9	1024.3	1016.4	1015.1	1012.5	1008.6	1012.5	1026.8
12.5°	1085.5	1097.2	1140.2	1137.6	1140.2	1097.2	1085.5	1033.3	998.2	991.7	994.2
15°	1166.2	1170.2	1179.3	1180.6	1179.3	1170.2	1166.2	1145.5	1039.9	994.2	979.9
17.5°	1174.1	1175.4	1181.9	1181.9	1181.9	1175.4	1174.1	1164.9	1129.7	1068.5	987.8
20°	1167.6	1170.2	1183.2	1185.8	1183.2	1170.2	1167.6	1155.8	1136.3	1114.1	1052.9
22.5°	1164.9	1170.2	1180.6	1179.3	1180.6	1170.2	1164.9	1146.7	1129.7	1114.1	1089.4
25°	1151.9	1151.9	1153.2	1154.5	1153.2	1151.9	1151.9	1137.6	1103.7	1099.8	1085.5
27.5°	1124.6	1127.2	1135.0	1133.7	1135.0	1127.2	1124.6	1119.3	1082.9	1078.9	1068.5
30°	1099.8	1097.2	1090.7	1085.5	1090.7	1097.2	1099.8	1092.0	1055.5	1045.0	1047.7
32.5°	1058.1	1051.6	1045.0	1041.2	1045.0	1051.6	1058.1	1055.5	1028.1	1013.8	1016.4
35°	1008.6	1009.9	1008.6	1004.7	1008.6	1009.9	1008.6	1011.2	994.2	981.2	979.9
37.5°	973.4	976.0	974.7	969.5	974.7	976.0	973.4	970.8	947.3	943.4	946.0
40°	936.9	938.2	936.9	933.0	936.9	938.2	936.9	931.7	899.1	900.4	909.5
42.5°	901.7	900.4	896.5	893.9	896.5	900.4	901.7	893.9	852.2	848.3	865.2
45°	861.3	862.6	854.9	850.9	854.9	862.6	861.3	856.2	813.1	802.7	814.4
47.5°	821.0	821.0	814.4	810.5	814.4	821.0	821.0	814.4	768.8	758.4	764.9
50°	777.9	776.6	767.5	766.2	767.5	776.6	777.9	774.0	725.8	716.7	716.7
52.5°	728.4	728.4	729.7	732.3	729.7	728.4	728.4	729.7	686.8	677.6	675.0
55°	685.5	686.8	695.8	698.5	695.8	686.8	685.5	685.5	646.3	637.2	632.0
57.5°	641.1	641.1	647.6	647.6	647.6	641.1	641.1	638.5	600.8	592.9	590.3
60°	590.3	592.9	598.1	596.8	598.1	592.9	590.3	587.7	555.1	549.9	540.8
62.5°	536.8	539.5	540.8	538.2	540.8	539.5	536.8	529.1	509.5	505.6	493.9
65°	480.9	483.5	484.7	482.2	484.7	483.5	480.9	476.9	462.6	456.1	445.7
67.5°	423.5	422.2	420.9	426.1	420.9	422.2	423.5	418.3	409.2	403.9	389.6
70°	364.8	364.8	363.6	366.1	363.6	364.8	364.8	361.0	355.7	351.8	338.8
72.5°	302.3	301.0	306.2	302.3	306.2	301.0	302.3	301.0	298.4	294.5	281.4
75°	241.1	243.7	241.1	245.0	241.1	243.7	241.1	242.4	241.1	238.5	229.3
77.5°	183.7	186.3	183.7	183.7	183.7	186.3	183.7	185.0	185.0	185.0	177.3
80°	130.3	129.0	129.0	127.7	129.0	129.0	130.3	130.3	131.6	129.0	126.4
82.5°	83.4	82.1	82.1	84.7	82.1	82.1	83.4	84.7	82.1	82.1	82.1
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°	16.9	15.6	15.6	15.6	15.6	15.6	16.9	18.2	18.2	18.2	19.6
90°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	8.0	10.7	12.1	10.4
92.5°	30.2	29.0	24.2	19.3	24.2	29.0	30.2	42.7	59.5	67.9	59.6
95°	102.3	98.7	84.2	69.7	84.2	98.7	102.3	134.4	177.1	198.5	167.6
97.5°	236.3	229.4	201.7	174.1	201.7	229.4	236.3	256.6	283.6	297.1	245.6
100°	331.9	323.6	290.7	257.7	290.7	323.6	331.9	330.4	328.4	327.4	270.3
102.5°	413.4	406.3	378.1	350.0	378.1	406.3	413.4	387.6	353.2	336.0	278.0
105°	508.7	504.9	489.7	474.6	489.7	504.9	508.7	450.8	373.6	335.0	279.0
107.5°	558.2	559.1	562.7	566.4	562.7	559.1	558.2	477.5	369.8	316.0	266.6
110°	570.9	574.8	590.6	606.4	590.6	574.8	570.9	480.6	360.3	300.1	255.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	562.8	568.9	593.1	617.4	593.1	568.9	562.8	470.4	347.3	285.7	245.9
115°	535.3	543.7	577.3	611.0	577.3	543.7	535.3	446.3	327.6	268.3	234.8
117.5°	497.3	506.7	544.0	581.4	544.0	506.7	497.3	417.0	310.0	256.5	228.0
120°	471.9	480.9	517.1	553.4	517.1	480.9	471.9	398.5	300.6	251.7	225.7
122.5°	446.3	455.2	491.0	526.8	491.0	455.2	446.3	380.2	292.1	248.0	224.5
125°	412.5	420.7	453.6	486.6	453.6	420.7	412.5	356.4	281.5	244.1	223.5
127.5°	385.3	392.2	420.0	447.8	420.0	392.2	385.3	337.1	272.9	240.8	222.9
130°	368.2	374.6	400.3	426.0	400.3	374.6	368.2	325.3	268.1	239.5	223.2
132.5°	353.6	359.4	382.3	405.3	382.3	359.4	353.6	315.2	264.0	238.4	223.5
135°	332.9	337.9	357.7	377.5	357.7	337.9	332.9	300.8	257.9	236.5	223.2
137.5°	317.7	321.8	338.0	354.2	338.0	321.8	317.7	290.5	254.3	236.2	224.6
140°	305.5	309.3	324.5	339.6	324.5	309.3	305.5	282.1	250.7	235.0	224.8
142.5°	296.9	300.1	313.2	326.3	313.2	300.1	296.9	276.3	248.8	235.0	225.6
145°	284.1	286.5	296.4	306.3	296.4	286.5	284.1	267.2	244.7	233.5	225.7
147.5°	273.3	275.4	283.5	291.7	283.5	275.4	273.3	260.0	242.3	233.5	227.2
150°	267.1	268.8	275.4	282.1	275.4	268.8	267.1	255.9	240.9	233.5	228.0
152.5°	262.2	263.4	268.4	273.4	268.4	263.4	262.2	252.6	239.9	233.5	228.5
155°	256.3	257.2	260.5	263.8	260.5	257.2	256.3	248.7	238.5	233.5	229.7
157.5°	251.3	251.9	254.2	256.5	254.2	251.9	251.3	245.3	237.4	233.5	230.8
160°	248.7	249.0	250.4	251.7	250.4	249.0	248.7	243.6	236.9	233.5	231.4
162.5°	246.3	246.6	247.9	249.2	247.9	246.6	246.3	242.0	236.3	233.5	232.0
165°	242.6	242.9	244.3	245.7	244.3	242.9	242.6	239.5	235.5	233.5	232.8
167.5°	241.1	241.2	241.8	242.3	241.8	241.2	241.1	239.1	236.4	235.0	234.5
170°	241.1	241.1	241.1	241.1	241.1	241.1	241.1	239.1	236.4	235.0	235.0
172.5°	239.8	239.6	239.2	238.7	239.2	239.6	239.8	238.2	236.1	235.0	235.0
175°	238.1	238.1	238.1	238.1	238.1	238.1	238.1	237.1	235.7	235.0	235.3
177.5°	237.8	237.6	237.1	236.5	237.1	237.6	237.8	237.0	235.9	235.4	235.6
180°	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1360.4	1366.9	1370.8	1376.1	1389.1
5°	1308.3	1333.0	1340.9	1360.4	1383.8
7.5°	1193.7	1269.2	1290.1	1337.0	1373.4
10°	1082.9	1158.5	1195.0	1305.7	1360.4
12.5°	1026.8	1071.1	1095.9	1250.9	1342.2
15°	991.7	1022.9	1041.2	1178.0	1321.3
17.5°	964.3	986.4	999.5	1106.3	1292.7
20°	947.3	957.8	969.5	1054.2	1260.1
22.5°	935.6	929.1	938.2	1017.7	1215.8
25°	927.8	903.1	913.5	989.1	1163.6
27.5°	934.3	879.6	883.5	963.0	1109.0
30°	935.6	850.9	852.2	935.6	1047.7
32.5°	926.5	821.0	822.3	901.7	978.6
35°	904.4	785.8	784.5	862.6	884.8
37.5°	874.3	748.0	748.0	819.7	781.9
40°	837.9	710.2	714.1	763.6	690.6
42.5°	793.6	669.8	675.0	689.3	622.9
45°	745.4	630.7	634.6	582.5	570.7
47.5°	691.9	590.3	591.6	483.5	553.8
50°	628.1	548.6	543.4	414.4	552.5
52.5°	572.0	503.0	487.3	375.3	501.7
55°	517.4	454.8	420.9	345.3	465.2
57.5°	469.1	392.2	359.7	310.2	457.4
60°	424.8	330.9	306.2	272.3	419.6
62.5°	388.3	285.4	280.1	246.2	380.5
65°	349.2	254.1	252.8	224.1	323.2
67.5°	311.5	233.2	231.9	203.3	246.2
70°	271.0	211.1	208.5	181.1	182.4
72.5°	229.3	186.3	183.7	162.9	151.2
75°	187.6	157.7	156.4	142.1	122.5
77.5°	147.2	125.1	127.7	114.7	89.9
80°	105.6	91.2	93.8	82.1	67.8
82.5°	70.4	59.9	62.5	52.1	45.6
85°	39.1	33.9	35.2	27.3	20.9
87.5°	18.2	15.6	15.6	10.4	6.5
90°	7.0	4.5	4.2	2.8	1.6
92.5°	43.0	30.6	28.0	17.1	6.3
95°	106.0	59.7	54.7	35.0	15.2
97.5°	142.7	65.5	61.1	43.7	26.3
100°	156.1	70.5	66.5	50.7	34.9
102.5°	162.2	75.4	71.7	57.0	42.2
105°	166.8	82.7	79.5	67.1	54.6
107.5°	167.6	93.5	90.6	78.9	67.3
110°	166.4	99.5	96.9	86.3	75.8



TEST NUMBER: P934522

CATALOG NUMBER: SQ4-FA-050U-125D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	166.4	106.8	104.3	94.2	84.2
115°	167.9	117.7	115.4	106.2	96.9
117.5°	171.1	128.4	126.3	117.9	109.5
120°	173.6	134.6	132.6	124.7	116.8
122.5°	177.3	141.9	139.9	132.0	124.0
125°	182.2	151.2	149.4	142.1	134.9
127.5°	187.1	160.3	158.5	151.2	143.8
130°	190.7	166.3	164.3	156.5	148.5
132.5°	193.7	171.2	169.2	161.4	153.5
135°	196.8	176.9	175.2	167.9	160.8
137.5°	201.6	184.3	182.5	175.3	168.2
140°	204.4	189.2	187.6	181.0	174.4
142.5°	206.9	192.8	191.3	185.3	179.2
145°	210.1	198.4	197.0	191.7	186.5
147.5°	214.8	205.4	204.0	199.0	193.8
150°	217.1	209.0	207.8	203.1	198.5
152.5°	218.8	211.4	210.5	207.0	203.4
155°	222.2	216.6	216.0	213.4	210.7
157.5°	225.7	221.8	221.2	218.7	216.1
160°	227.3	224.2	223.8	221.8	219.8
162.5°	229.0	226.8	226.4	224.9	223.5
165°	231.5	230.5	230.2	228.8	227.5
167.5°	233.3	232.5	232.3	231.7	231.1
170°	234.9	234.8	234.7	234.1	233.5
172.5°	235.0	235.0	235.0	234.8	234.7
175°	236.0	236.5	236.5	236.5	236.5
177.5°	236.1	236.5	236.5	236.5	236.5
180°	236.5	236.5	236.5	236.5	236.5



TEST NUMBER: P934522  
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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	15.31	16.39	16.08	17.18	18.13	18.11	19.19	18.88	19.97	20.93
	3H	15.81	16.77	16.58	17.57	18.55	19.46	20.43	20.24	21.22	22.21
	4H	16.01	16.92	16.80	17.72	18.72	19.91	20.82	20.71	21.63	22.62
	6H	16.14	16.98	16.95	17.79	18.80	20.20	21.04	21.01	21.85	22.86
	8H	16.15	16.95	16.96	17.78	18.79	20.27	21.07	21.09	21.91	22.92
	12H	16.12	16.89	16.95	17.71	18.75	20.32	21.08	21.14	21.90	22.94
4H	2H	16.36	17.27	17.16	18.08	19.08	18.55	19.46	19.35	20.26	21.26
	3H	17.41	18.17	18.22	19.01	20.02	20.06	20.82	20.88	21.66	22.67
	4H	17.70	18.39	18.52	19.22	20.26	20.59	21.28	21.42	22.12	23.16
	6H	17.83	18.43	18.68	19.29	20.34	20.96	21.56	21.81	22.42	23.47
	8H	17.84	18.40	18.69	19.26	20.32	21.07	21.63	21.92	22.49	23.54
	12H	17.82	18.32	18.69	19.20	20.26	21.13	21.63	22.00	22.51	23.58
8H	4H	18.16	18.72	19.01	19.58	20.63	20.74	21.29	21.58	22.15	23.21
	6H	18.43	18.89	19.31	19.79	20.85	21.17	21.64	22.05	22.53	23.59
	8H	18.48	18.89	19.36	19.78	20.86	21.32	21.73	22.21	22.63	23.70
	12H	18.47	18.83	19.36	19.72	20.85	21.42	21.79	22.31	22.67	23.80
12H	4H	18.18	18.68	19.04	19.56	20.62	20.71	21.21	21.58	22.09	23.15
	6H	18.49	18.90	19.38	19.80	20.87	21.17	21.58	22.06	22.48	23.55
	8H	18.57	18.93	19.46	19.82	20.94	21.34	21.70	22.23	22.59	23.71