

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: P934418

Luminaire Tested: SQ4-FA-050U-100D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

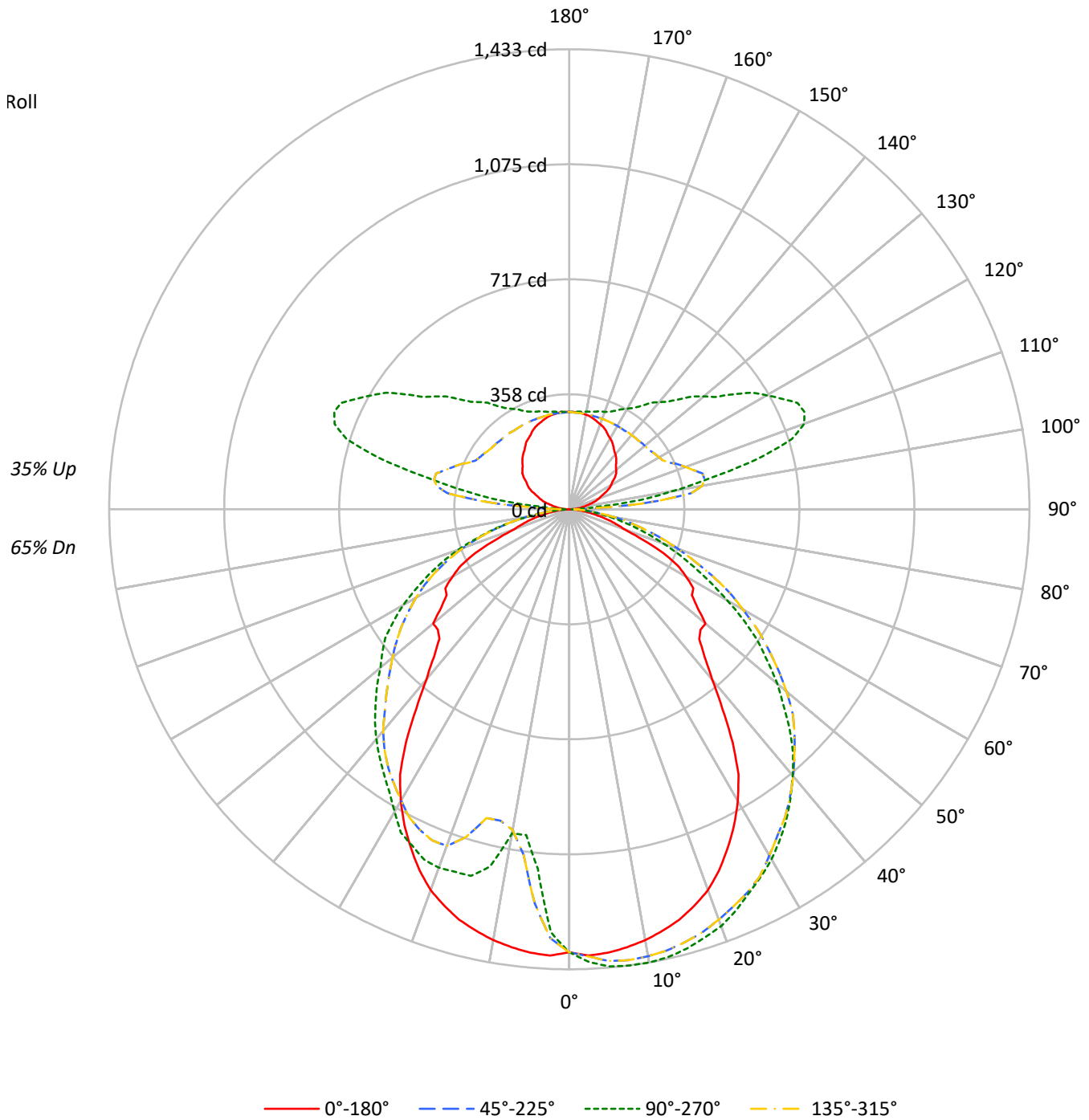
Test Method: LM-79-2019  
Report Number: P934418  
REPORT IS A COMBINATION OF REPORTS P933698 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5545.6 lumens  
Efficiency: N/A  
Efficacy: 122.7 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): 45.2  
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	0
RCR																					
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

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

	0°	90°	180°	270°
0°	12803	12803	12803	12803
5°	12886	12924	12886	10162
10°	12784	12731	12784	9103
15°	12631	12455	12631	10400
20°	12353	12129	12353	10422
25°	11797	11652	11797	10201
30°	11086	11256	11086	9717
35°	9867	10756	9867	9184
40°	8209	10167	8209	8780
45°	7321	9477	7321	8318
50°	7759	8655	7759	7854
55°	7279	7769	7279	7585
60°	7476	6597	7476	6946
65°	6748	5454	6748	6097
70°	4641	4347	4641	5110
75°	4024	3212	4024	3847
80°	3178	2124	3178	2312
85°	1722	1125	1722	957

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11240 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.5	2.2
10°-20°	353.6	6.4
20°-30°	546.7	9.9
30°-40°	652.6	11.8
40°-50°	656.4	11.8
50°-60°	571.1	10.3
60°-70°	405.0	7.3
70°-80°	214.2	3.9
80°-90°	54.5	1.0
90°-100°	147.9	2.7
100°-110°	388.9	7.0
110°-120°	403.2	7.3
120°-130°	323.4	5.8
130°-140°	253.8	4.6
140°-150°	194.8	3.5
150°-160°	140.3	2.5
160°-170°	85.8	1.5
170°-180°	29.0	0.5
0°-30°	1024.8	18.5
0°-40°	1677.4	30.2
0°-60°	2905.0	52.4
0°-90°	3578.7	64.5
90°-120°	939.9	16.9
90°-150°	1711.8	30.9
90°-180°	1967.0	35.5
0°-180°	5545.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1380	1380	1380	1380	1380	
5°	1386	1429	1386	1124	1386	132
15°	1324	1416	1324	1183	1324	372
25°	1166	1321	1166	1157	1166	535
35°	886	1179	886	1006	886	548
45°	572	971	572	852	572	458
55°	466	717	466	700	466	428
65°	324	432	324	483	324	309
75°	123	205	123	245	123	129
85°	21	52	21	44	21	28
90°	2	8	2	8	2	3
95°	20	89	20	89	20	22
105°	70	609	70	609	70	74
115°	124	784	124	784	124	123
125°	173	624	173	624	173	154
135°	206	484	206	484	206	160
145°	239	393	239	393	239	150
155°	270	338	270	338	270	124
165°	292	315	292	315	292	82
175°	303	306	303	306	303	29
180°	303	303	303	303	303	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1391.5	1391.5	1399.4	1402.0	1402.0	1398.0	1394.2	1398.0	1409.8	1413.7	1412.4
5°	1386.4	1396.7	1411.2	1413.7	1416.3	1415.0	1412.4	1415.0	1428.1	1430.7	1432.0
7.5°	1375.9	1395.5	1413.7	1417.7	1421.5	1417.7	1416.3	1419.0	1432.0	1434.6	1434.6
10°	1362.8	1390.2	1411.2	1413.7	1417.7	1413.7	1413.7	1419.0	1432.0	1434.6	1436.0
12.5°	1344.6	1382.4	1402.0	1404.6	1409.8	1408.5	1407.2	1412.4	1425.5	1428.1	1428.1
15°	1323.6	1368.1	1386.4	1388.9	1398.0	1395.5	1395.5	1400.7	1415.0	1419.0	1417.7
17.5°	1295.0	1349.8	1370.7	1374.6	1381.1	1379.7	1381.1	1386.4	1399.4	1402.0	1403.3
20°	1262.3	1325.0	1349.8	1353.7	1360.2	1360.2	1360.2	1366.7	1379.7	1385.0	1385.0
22.5°	1217.9	1298.8	1325.0	1327.6	1335.4	1335.4	1338.0	1347.1	1358.9	1360.2	1360.2
25°	1165.7	1270.2	1292.3	1300.2	1308.0	1311.9	1315.8	1321.1	1325.0	1323.6	1325.0
27.5°	1110.9	1233.6	1262.3	1267.5	1278.0	1281.9	1287.1	1288.5	1289.7	1293.6	1291.0
30°	1049.6	1182.6	1225.7	1230.9	1247.9	1250.5	1245.4	1247.9	1254.5	1257.1	1259.7
32.5°	980.3	1107.0	1187.9	1199.6	1215.3	1207.4	1206.2	1210.1	1220.6	1220.6	1223.1
35°	886.3	1048.3	1152.7	1163.1	1174.8	1165.7	1170.9	1172.3	1178.8	1182.6	1181.4
37.5°	783.2	997.3	1116.1	1123.9	1133.0	1121.3	1129.2	1133.0	1138.3	1135.7	1135.7
40°	691.9	917.7	1073.1	1078.2	1086.1	1076.9	1084.7	1087.4	1090.0	1087.4	1086.1
42.5°	624.0	830.2	1027.3	1033.8	1028.6	1035.1	1037.8	1043.0	1039.1	1033.8	1033.8
45°	571.8	806.7	977.7	985.5	977.7	988.2	992.1	992.1	980.3	977.7	976.4
47.5°	554.8	759.8	928.1	928.1	924.2	937.2	943.8	934.6	922.9	919.0	919.0
50°	553.5	707.5	860.3	855.0	873.3	889.0	882.5	873.3	864.2	849.8	849.8
52.5°	502.6	643.6	772.8	792.4	821.1	830.2	819.7	810.7	794.9	788.4	783.2
55°	466.0	577.0	693.2	732.3	762.3	774.1	754.5	745.3	721.8	718.0	715.3
57.5°	458.2	480.4	620.1	669.7	706.2	704.9	693.2	676.2	656.6	652.7	651.4
60°	420.3	347.2	541.7	600.5	638.3	634.4	624.0	608.3	590.0	587.5	584.8
62.5°	381.2	251.9	453.0	519.6	573.0	571.8	562.7	539.2	526.1	519.6	514.4
65°	323.8	211.4	322.4	432.1	509.1	511.7	492.1	475.1	460.8	453.0	451.6
67.5°	246.7	172.3	218.0	360.3	447.8	445.1	420.3	412.5	394.2	390.3	382.5
70°	182.8	114.9	151.5	292.4	387.7	381.2	361.6	352.4	335.5	326.3	321.1
72.5°	151.5	92.7	111.0	227.1	326.3	318.5	301.5	291.1	276.7	268.9	263.7
75°	122.7	97.9	84.9	168.4	265.0	259.7	244.1	233.7	221.9	211.4	212.8
77.5°	90.1	91.4	67.9	124.0	210.1	202.3	193.2	180.1	174.9	164.5	164.5
80°	67.9	71.8	50.9	84.9	151.5	151.5	143.6	134.5	125.3	120.1	120.1
82.5°	45.6	45.6	37.8	53.5	103.1	99.2	94.0	91.4	86.2	83.6	83.6
85°	20.8	26.1	23.5	32.6	56.1	58.8	58.8	56.1	54.8	52.2	53.5
87.5°	6.5	11.8	14.3	18.3	28.8	30.0	31.3	31.3	31.3	32.6	32.6
90°	2.1	3.7	5.3	5.7	9.0	13.3	15.5	13.7	10.3	7.7	7.7
92.5°	8.1	21.9	35.9	39.3	55.2	76.5	87.1	76.4	54.8	38.7	37.1
95°	19.6	44.9	70.2	76.6	135.9	215.1	254.7	227.2	172.4	131.3	126.7
97.5°	33.8	56.1	78.4	84.1	183.1	315.2	381.2	363.9	329.2	303.2	294.3
100°	44.8	65.0	85.4	90.4	200.3	346.8	420.1	421.4	424.0	425.8	415.3
102.5°	54.1	73.1	92.0	96.7	208.2	356.8	431.1	453.2	497.4	530.5	521.4
105°	70.0	86.1	102.1	106.1	214.0	358.0	429.9	479.4	578.4	652.7	647.8
107.5°	86.4	101.3	116.2	119.9	215.1	342.0	405.5	474.5	612.7	716.2	717.4
110°	97.3	110.8	124.3	127.6	213.5	327.9	385.1	462.3	616.7	732.5	737.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	108.1	120.9	133.8	137.0	213.5	315.6	366.5	445.6	603.6	722.1	729.9
115°	124.4	136.2	148.1	151.1	215.5	301.3	344.3	420.4	572.6	686.9	697.6
117.5°	140.5	151.3	162.0	164.7	219.5	292.5	329.1	397.8	535.1	638.1	650.1
120°	149.9	160.1	170.1	172.7	222.8	289.6	323.0	385.7	511.3	605.4	617.1
122.5°	159.1	169.3	179.5	182.1	227.4	288.0	318.2	374.7	487.9	572.6	584.1
125°	173.1	182.4	191.7	194.0	233.8	286.7	313.2	361.2	457.2	529.3	539.8
127.5°	184.5	193.9	203.3	205.7	240.1	286.0	308.9	350.1	432.5	494.4	503.3
130°	190.6	200.8	210.8	213.4	244.7	286.4	307.3	344.0	417.4	472.5	480.7
132.5°	196.9	207.1	217.2	219.7	248.5	286.7	305.9	338.7	404.4	453.7	461.1
135°	206.3	215.5	224.8	227.0	252.5	286.4	303.4	330.9	385.9	427.2	433.5
137.5°	215.9	225.0	234.2	236.4	258.7	288.2	303.0	326.2	372.8	407.6	412.9
140°	223.8	232.2	240.7	242.8	262.3	288.5	301.5	321.7	361.9	392.0	396.9
142.5°	229.9	237.7	245.4	247.4	265.5	289.5	301.5	319.2	354.5	381.0	385.1
145°	239.3	246.0	252.8	254.5	269.5	289.6	299.6	314.0	342.8	364.5	367.6
147.5°	248.7	255.3	261.8	263.5	275.6	291.6	299.6	310.9	333.6	350.6	353.3
150°	254.7	260.6	266.7	268.1	278.6	292.5	299.6	309.1	328.3	342.7	344.9
152.5°	261.0	265.6	270.1	271.2	280.7	293.2	299.6	307.8	324.2	336.4	338.0
155°	270.4	273.8	277.1	277.9	285.1	294.7	299.6	306.1	319.1	328.9	330.0
157.5°	277.3	280.6	283.9	284.6	289.6	296.2	299.6	304.6	314.8	322.4	323.2
160°	282.1	284.5	287.1	287.7	291.7	296.9	299.6	303.9	312.6	319.1	319.5
162.5°	286.7	288.6	290.5	291.0	293.8	297.7	299.6	303.2	310.5	316.1	316.5
165°	291.9	293.5	295.3	295.7	297.0	298.7	299.6	302.1	307.4	311.3	311.7
167.5°	296.5	297.3	298.1	298.3	299.4	300.8	301.5	303.3	306.8	309.3	309.5
170°	299.6	300.4	301.1	301.3	301.4	301.5	301.5	303.3	306.8	309.3	309.3
172.5°	301.1	301.3	301.5	301.5	301.5	301.5	301.5	302.9	305.6	307.7	307.5
175°	303.4	303.4	303.4	303.4	302.8	301.9	301.5	302.4	304.2	305.5	305.5
177.5°	303.4	303.4	303.4	303.4	302.9	302.3	302.0	302.7	304.1	305.1	304.9
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1415.0	1411.2	1415.0	1412.4	1413.7	1409.8	1398.0	1394.2	1398.0	1402.0	1402.0
5°	1432.0	1429.4	1432.0	1432.0	1430.7	1428.1	1415.0	1412.4	1415.0	1416.3	1413.7
7.5°	1437.2	1433.3	1437.2	1434.6	1434.6	1432.0	1419.0	1416.3	1417.7	1421.5	1417.7
10°	1437.2	1433.3	1437.2	1436.0	1434.6	1432.0	1419.0	1413.7	1413.7	1417.7	1413.7
12.5°	1430.7	1428.1	1430.7	1428.1	1428.1	1425.5	1412.4	1407.2	1408.5	1409.8	1404.6
15°	1420.2	1416.3	1420.2	1417.7	1419.0	1415.0	1400.7	1395.5	1395.5	1398.0	1388.9
17.5°	1404.6	1399.4	1404.6	1403.3	1402.0	1399.4	1386.4	1381.1	1379.7	1381.1	1374.6
20°	1386.4	1382.4	1386.4	1385.0	1385.0	1379.7	1366.7	1360.2	1360.2	1360.2	1353.7
22.5°	1357.6	1353.7	1357.6	1360.2	1360.2	1358.9	1347.1	1338.0	1335.4	1335.4	1327.6
25°	1325.0	1321.1	1325.0	1325.0	1323.6	1325.0	1321.1	1315.8	1311.9	1308.0	1300.2
27.5°	1293.6	1291.0	1293.6	1291.0	1293.6	1289.7	1288.5	1287.1	1281.9	1278.0	1267.5
30°	1262.3	1259.7	1262.3	1259.7	1257.1	1254.5	1247.9	1245.4	1250.5	1247.9	1230.9
32.5°	1223.1	1220.6	1223.1	1223.1	1220.6	1220.6	1210.1	1206.2	1207.4	1215.3	1199.6
35°	1182.6	1178.8	1182.6	1181.4	1182.6	1178.8	1172.3	1170.9	1165.7	1174.8	1163.1
37.5°	1135.7	1131.8	1135.7	1135.7	1135.7	1138.3	1133.0	1129.2	1121.3	1133.0	1123.9
40°	1087.4	1082.2	1087.4	1086.1	1087.4	1090.0	1087.4	1084.7	1076.9	1086.1	1078.2
42.5°	1032.6	1031.3	1032.6	1033.8	1033.8	1039.1	1043.0	1037.8	1035.1	1028.6	1033.8
45°	973.8	971.2	973.8	976.4	977.7	980.3	992.1	992.1	988.2	977.7	985.5
47.5°	911.1	904.6	911.1	919.0	919.0	922.9	934.6	943.8	937.2	924.2	928.1
50°	844.5	845.9	844.5	849.8	849.8	864.2	873.3	882.5	889.0	873.3	855.0
52.5°	779.3	778.0	779.3	783.2	788.4	794.9	810.7	819.7	830.2	821.1	792.4
55°	714.0	716.7	714.0	715.3	718.0	721.8	745.3	754.5	774.1	762.3	732.3
57.5°	648.8	644.9	648.8	651.4	652.7	656.6	676.2	693.2	704.9	706.2	669.7
60°	573.0	567.8	573.0	584.8	587.5	590.0	608.3	624.0	634.4	638.3	600.5
62.5°	506.4	497.4	506.4	514.4	519.6	526.1	539.2	562.7	571.8	573.0	519.6
65°	436.0	432.1	436.0	451.6	453.0	460.8	475.1	492.1	511.7	509.1	432.1
67.5°	372.1	372.1	372.1	382.5	390.3	394.2	412.5	420.3	445.1	447.8	360.3
70°	313.3	312.0	313.3	321.1	326.3	335.5	352.4	361.6	381.2	387.7	292.4
72.5°	257.2	255.9	257.2	263.7	268.9	276.7	291.1	301.5	318.5	326.3	227.1
75°	207.6	204.9	207.6	212.8	211.4	221.9	233.7	244.1	259.7	265.0	168.4
77.5°	159.3	159.3	159.3	164.5	164.5	174.9	180.1	193.2	202.3	210.1	124.0
80°	118.8	117.5	118.8	120.1	120.1	125.3	134.5	143.6	151.5	151.5	84.9
82.5°	83.6	80.9	83.6	83.6	83.6	86.2	91.4	94.0	99.2	103.1	53.5
85°	52.2	52.2	52.2	53.5	52.2	54.8	56.1	58.8	58.8	56.1	32.6
87.5°	34.0	32.6	34.0	32.6	32.6	31.3	31.3	31.3	30.0	28.8	18.3
90°	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3	9.0	5.7
92.5°	31.0	24.8	31.0	37.1	38.7	54.8	76.4	87.1	76.5	55.2	39.3
95°	108.0	89.4	108.0	126.7	131.3	172.4	227.2	254.7	215.1	135.9	76.6
97.5°	258.9	223.4	258.9	294.3	303.2	329.2	363.9	381.2	315.2	183.1	84.1
100°	373.0	330.7	373.0	415.3	425.8	424.0	421.4	420.1	346.8	200.3	90.4
102.5°	485.2	449.0	485.2	521.4	530.5	497.4	453.2	431.1	356.8	208.2	96.7
105°	628.4	608.9	628.4	647.8	652.7	578.4	479.4	429.9	358.0	214.0	106.1
107.5°	722.0	726.8	722.0	717.4	716.2	612.7	474.5	405.5	342.0	215.1	119.9
110°	757.8	778.0	757.8	737.5	732.5	616.7	462.3	385.1	327.9	213.5	127.6





TEST NUMBER: P934418

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	761.1	792.2	761.1	729.9	722.1	603.6	445.6	366.5	315.6	213.5	137.0
115°	740.8	784.0	740.8	697.6	686.9	572.6	420.4	344.3	301.3	215.5	151.1
117.5°	698.0	745.9	698.0	650.1	638.1	535.1	397.8	329.1	292.5	219.5	164.7
120°	663.5	710.1	663.5	617.1	605.4	511.3	385.7	323.0	289.6	222.8	172.7
122.5°	630.0	675.9	630.0	584.1	572.6	487.9	374.7	318.2	288.0	227.4	182.1
125°	582.0	624.3	582.0	539.8	529.3	457.2	361.2	313.2	286.7	233.8	194.0
127.5°	539.0	574.6	539.0	503.3	494.4	432.5	350.1	308.9	286.0	240.1	205.7
130°	513.7	546.6	513.7	480.7	472.5	417.4	344.0	307.3	286.4	244.7	213.4
132.5°	490.5	520.1	490.5	461.1	453.7	404.4	338.7	305.9	286.7	248.5	219.7
135°	459.0	484.4	459.0	433.5	427.2	385.9	330.9	303.4	286.4	252.5	227.0
137.5°	433.6	454.5	433.6	412.9	407.6	372.8	326.2	303.0	288.2	258.7	236.4
140°	416.3	435.8	416.3	396.9	392.0	361.9	321.7	301.5	288.5	262.3	242.8
142.5°	401.9	418.7	401.9	385.1	381.0	354.5	319.2	301.5	289.5	265.5	247.4
145°	380.4	393.0	380.4	367.6	364.5	342.8	314.0	299.6	289.6	269.5	254.5
147.5°	363.8	374.3	363.8	353.3	350.6	333.6	310.9	299.6	291.6	275.6	263.5
150°	353.4	361.9	353.4	344.9	342.7	328.3	309.1	299.6	292.5	278.6	268.1
152.5°	344.4	350.8	344.4	338.0	336.4	324.2	307.8	299.6	293.2	280.7	271.2
155°	334.2	338.5	334.2	330.0	328.9	319.1	306.1	299.6	294.7	285.1	277.9
157.5°	326.1	329.1	326.1	323.2	322.4	314.8	304.6	299.6	296.2	289.6	284.6
160°	321.3	323.0	321.3	319.5	319.1	312.6	303.9	299.6	296.9	291.7	287.7
162.5°	318.1	319.7	318.1	316.5	316.1	310.5	303.2	299.6	297.7	293.8	291.0
165°	313.5	315.3	313.5	311.7	311.3	307.4	302.1	299.6	298.7	297.0	295.7
167.5°	310.2	310.9	310.2	309.5	309.3	306.8	303.3	301.5	300.8	299.4	298.3
170°	309.3	309.3	309.3	309.3	309.3	306.8	303.3	301.5	301.5	301.4	301.3
172.5°	306.9	306.3	306.9	307.5	307.7	305.6	302.9	301.5	301.5	301.5	301.5
175°	305.5	305.5	305.5	305.5	305.5	304.2	302.4	301.5	301.9	302.8	303.4
177.5°	304.2	303.4	304.2	304.9	305.1	304.1	302.7	302.0	302.3	302.9	303.4
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934418

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1399.4	1391.5	1391.5	1378.5	1373.2	1369.4	1362.8	1343.3	1338.0	1332.8	1340.6
5°	1411.2	1396.7	1386.4	1362.8	1343.3	1335.4	1310.6	1263.7	1232.2	1208.8	1195.8
7.5°	1413.7	1395.5	1375.9	1339.3	1292.3	1271.5	1195.8	1109.6	1086.1	1065.2	1052.1
10°	1411.2	1390.2	1362.8	1308.0	1197.1	1160.5	1084.7	1028.6	1014.3	1010.3	1014.3
12.5°	1402.0	1382.4	1344.6	1253.2	1097.9	1073.1	1028.6	996.0	993.4	1000.0	1035.1
15°	1386.4	1368.1	1323.6	1180.1	1043.0	1024.8	993.4	981.7	996.0	1041.6	1147.5
17.5°	1370.7	1349.8	1295.0	1108.2	1001.2	988.2	966.0	989.5	1070.4	1131.8	1167.0
20°	1349.8	1325.0	1262.3	1056.1	971.2	959.4	949.0	1054.8	1116.1	1138.3	1157.8
22.5°	1325.0	1298.8	1217.9	1019.5	939.9	930.7	937.2	1091.3	1116.1	1131.8	1148.7
25°	1292.3	1270.2	1165.7	990.8	915.1	904.6	929.4	1087.4	1101.7	1105.7	1139.6
27.5°	1262.3	1233.6	1110.9	964.7	885.1	881.1	935.9	1070.4	1080.9	1084.7	1121.3
30°	1225.7	1182.6	1049.6	937.2	853.7	852.4	937.2	1049.6	1046.9	1057.4	1093.9
32.5°	1187.9	1107.0	980.3	903.3	823.7	822.4	928.1	1018.2	1015.6	1030.0	1057.4
35°	1152.7	1048.3	886.3	864.2	785.9	787.1	905.9	981.7	983.0	996.0	1013.0
37.5°	1116.1	997.3	783.2	821.1	749.3	749.3	875.9	947.7	945.1	949.0	972.5
40°	1073.1	917.7	691.9	764.9	715.3	711.5	839.4	911.1	902.0	900.8	933.4
42.5°	1027.3	830.2	624.0	690.5	676.2	671.0	794.9	866.8	849.8	853.7	895.5
45°	977.7	806.7	571.8	583.5	635.7	631.8	746.6	815.9	804.1	814.6	857.7
47.5°	928.1	759.8	554.8	484.3	592.6	591.3	693.2	766.3	759.8	770.1	815.9
50°	860.3	707.5	553.5	415.2	544.4	549.5	629.2	718.0	718.0	727.1	775.4
52.5°	772.8	643.6	502.6	375.9	488.2	503.9	573.0	676.2	678.8	687.9	731.0
55°	693.2	577.0	466.0	345.9	421.7	455.6	518.2	633.1	638.3	647.4	686.7
57.5°	620.1	480.4	458.2	310.7	360.3	392.9	469.9	591.3	594.0	601.8	639.6
60°	541.7	347.2	420.3	272.8	306.8	331.6	425.5	541.7	550.9	556.0	588.7
62.5°	453.0	251.9	381.2	246.7	280.7	285.9	389.0	494.7	506.4	510.4	530.0
65°	322.4	211.4	323.8	224.6	253.2	254.5	349.9	446.5	456.9	463.4	477.8
67.5°	218.0	172.3	246.7	203.6	232.4	233.7	312.0	390.3	404.7	409.9	419.0
70°	151.5	114.9	182.8	181.5	208.9	211.4	271.5	339.4	352.4	356.4	361.6
72.5°	111.0	92.7	151.5	163.2	184.1	186.6	229.7	282.0	295.0	299.0	301.5
75°	84.9	97.9	122.7	142.3	156.6	158.0	188.0	229.7	238.9	241.5	242.8
77.5°	67.9	91.4	90.1	114.9	127.9	125.3	147.5	177.5	185.3	185.3	185.3
80°	50.9	71.8	67.9	82.2	94.0	91.4	105.7	126.7	129.2	131.8	130.5
82.5°	37.8	45.6	45.6	52.2	62.6	60.1	70.4	82.2	82.2	82.2	84.9
85°	23.5	26.1	20.8	27.4	35.3	34.0	39.1	44.4	45.6	45.6	43.1
87.5°	14.3	11.8	6.5	10.5	15.7	15.7	18.3	19.6	18.3	18.3	18.3
90°	5.3	3.7	2.1	3.7	5.3	5.7	9.0	13.3	15.5	13.7	10.3
92.5°	35.9	21.9	8.1	21.9	35.9	39.3	55.2	76.5	87.1	76.4	54.8
95°	70.2	44.9	19.6	44.9	70.2	76.6	135.9	215.1	254.7	227.2	172.4
97.5°	78.4	56.1	33.8	56.1	78.4	84.1	183.1	315.2	381.2	363.9	329.2
100°	85.4	65.0	44.8	65.0	85.4	90.4	200.3	346.8	420.1	421.4	424.0
102.5°	92.0	73.1	54.1	73.1	92.0	96.7	208.2	356.8	431.1	453.2	497.4
105°	102.1	86.1	70.0	86.1	102.1	106.1	214.0	358.0	429.9	479.4	578.4
107.5°	116.2	101.3	86.4	101.3	116.2	119.9	215.1	342.0	405.5	474.5	612.7
110°	124.3	110.8	97.3	110.8	124.3	127.6	213.5	327.9	385.1	462.3	616.7



TEST NUMBER: P934418

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	133.8	120.9	108.1	120.9	133.8	137.0	213.5	315.6	366.5	445.6	603.6
115°	148.1	136.2	124.4	136.2	148.1	151.1	215.5	301.3	344.3	420.4	572.6
117.5°	162.0	151.3	140.5	151.3	162.0	164.7	219.5	292.5	329.1	397.8	535.1
120°	170.1	160.1	149.9	160.1	170.1	172.7	222.8	289.6	323.0	385.7	511.3
122.5°	179.5	169.3	159.1	169.3	179.5	182.1	227.4	288.0	318.2	374.7	487.9
125°	191.7	182.4	173.1	182.4	191.7	194.0	233.8	286.7	313.2	361.2	457.2
127.5°	203.3	193.9	184.5	193.9	203.3	205.7	240.1	286.0	308.9	350.1	432.5
130°	210.8	200.8	190.6	200.8	210.8	213.4	244.7	286.4	307.3	344.0	417.4
132.5°	217.2	207.1	196.9	207.1	217.2	219.7	248.5	286.7	305.9	338.7	404.4
135°	224.8	215.5	206.3	215.5	224.8	227.0	252.5	286.4	303.4	330.9	385.9
137.5°	234.2	225.0	215.9	225.0	234.2	236.4	258.7	288.2	303.0	326.2	372.8
140°	240.7	232.2	223.8	232.2	240.7	242.8	262.3	288.5	301.5	321.7	361.9
142.5°	245.4	237.7	229.9	237.7	245.4	247.4	265.5	289.5	301.5	319.2	354.5
145°	252.8	246.0	239.3	246.0	252.8	254.5	269.5	289.6	299.6	314.0	342.8
147.5°	261.8	255.3	248.7	255.3	261.8	263.5	275.6	291.6	299.6	310.9	333.6
150°	266.7	260.6	254.7	260.6	266.7	268.1	278.6	292.5	299.6	309.1	328.3
152.5°	270.1	265.6	261.0	265.6	270.1	271.2	280.7	293.2	299.6	307.8	324.2
155°	277.1	273.8	270.4	273.8	277.1	277.9	285.1	294.7	299.6	306.1	319.1
157.5°	283.9	280.6	277.3	280.6	283.9	284.6	289.6	296.2	299.6	304.6	314.8
160°	287.1	284.5	282.1	284.5	287.1	287.7	291.7	296.9	299.6	303.9	312.6
162.5°	290.5	288.6	286.7	288.6	290.5	291.0	293.8	297.7	299.6	303.2	310.5
165°	295.3	293.5	291.9	293.5	295.3	295.7	297.0	298.7	299.6	302.1	307.4
167.5°	298.1	297.3	296.5	297.3	298.1	298.3	299.4	300.8	301.5	303.3	306.8
170°	301.1	300.4	299.6	300.4	301.1	301.3	301.4	301.5	301.5	303.3	306.8
172.5°	301.5	301.3	301.1	301.3	301.5	301.5	301.5	301.5	301.5	302.9	305.6
175°	303.4	303.4	303.4	303.4	303.4	303.4	302.8	301.9	301.5	302.4	304.2
177.5°	303.4	303.4	303.4	303.4	303.4	303.4	302.9	302.3	302.0	302.7	304.1
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934418  
 CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1331.5	1327.6	1332.8	1318.4	1332.8	1327.6	1331.5	1340.6	1332.8	1338.0	1343.3
5°	1168.3	1161.8	1140.9	1123.9	1140.9	1161.8	1168.3	1195.8	1208.8	1232.2	1263.7
7.5°	1044.3	1039.1	1033.8	1023.4	1033.8	1039.1	1044.3	1052.1	1065.2	1086.1	1109.6
10°	1016.8	1018.2	1026.0	1024.8	1026.0	1018.2	1016.8	1014.3	1010.3	1014.3	1028.6
12.5°	1087.4	1099.2	1142.2	1139.6	1142.2	1099.2	1087.4	1035.1	1000.0	993.4	996.0
15°	1168.3	1172.3	1181.4	1182.6	1181.4	1172.3	1168.3	1147.5	1041.6	996.0	981.7
17.5°	1176.1	1177.5	1184.0	1184.0	1184.0	1177.5	1176.1	1167.0	1131.8	1070.4	989.5
20°	1169.6	1172.3	1185.3	1187.9	1185.3	1172.3	1169.6	1157.8	1138.3	1116.1	1054.8
22.5°	1167.0	1172.3	1182.6	1181.4	1182.6	1172.3	1167.0	1148.7	1131.8	1116.1	1091.3
25°	1154.0	1154.0	1155.3	1156.6	1155.3	1154.0	1154.0	1139.6	1105.7	1101.7	1087.4
27.5°	1126.5	1129.2	1137.0	1135.7	1137.0	1129.2	1126.5	1121.3	1084.7	1080.9	1070.4
30°	1101.7	1099.2	1092.6	1087.4	1092.6	1099.2	1101.7	1093.9	1057.4	1046.9	1049.6
32.5°	1059.9	1053.4	1046.9	1043.0	1046.9	1053.4	1059.9	1057.4	1030.0	1015.6	1018.2
35°	1010.3	1011.7	1010.3	1006.5	1010.3	1011.7	1010.3	1013.0	996.0	983.0	981.7
37.5°	975.2	977.7	976.4	971.2	976.4	977.7	975.2	972.5	949.0	945.1	947.7
40°	938.6	939.9	938.6	934.6	938.6	939.9	938.6	933.4	900.8	902.0	911.1
42.5°	903.3	902.0	898.1	895.5	898.1	902.0	903.3	895.5	853.7	849.8	866.8
45°	862.8	864.2	856.3	852.4	856.3	864.2	862.8	857.7	814.6	804.1	815.9
47.5°	822.4	822.4	815.9	811.9	815.9	822.4	822.4	815.9	770.1	759.8	766.3
50°	779.3	778.0	768.9	767.6	768.9	778.0	779.3	775.4	727.1	718.0	718.0
52.5°	729.7	729.7	731.0	733.6	731.0	729.7	729.7	731.0	687.9	678.8	676.2
55°	686.7	687.9	697.0	699.7	697.0	687.9	686.7	686.7	647.4	638.3	633.1
57.5°	642.2	642.2	648.8	648.8	648.8	642.2	642.2	639.6	601.8	594.0	591.3
60°	591.3	594.0	599.1	597.8	599.1	594.0	591.3	588.7	556.0	550.9	541.7
62.5°	537.8	540.4	541.7	539.2	541.7	540.4	537.8	530.0	510.4	506.4	494.7
65°	481.6	484.3	485.6	483.0	485.6	484.3	481.6	477.8	463.4	456.9	446.5
67.5°	424.2	423.0	421.7	426.8	421.7	423.0	424.2	419.0	409.9	404.7	390.3
70°	365.5	365.5	364.2	366.8	364.2	365.5	365.5	361.6	356.4	352.4	339.4
72.5°	302.8	301.5	306.8	302.8	306.8	301.5	302.8	301.5	299.0	295.0	282.0
75°	241.5	244.1	241.5	245.4	241.5	244.1	241.5	242.8	241.5	238.9	229.7
77.5°	184.1	186.6	184.1	184.1	184.1	186.6	184.1	185.3	185.3	185.3	177.5
80°	130.5	129.2	129.2	127.9	129.2	129.2	130.5	130.5	131.8	129.2	126.7
82.5°	83.6	82.2	82.2	84.9	82.2	82.2	83.6	84.9	82.2	82.2	82.2
85°	45.6	47.0	44.4	44.4	44.4	47.0	45.6	43.1	45.6	45.6	44.4
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°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3
92.5°	38.7	37.1	31.0	24.8	31.0	37.1	38.7	54.8	76.4	87.1	76.5
95°	131.3	126.7	108.0	89.4	108.0	126.7	131.3	172.4	227.2	254.7	215.1
97.5°	303.2	294.3	258.9	223.4	258.9	294.3	303.2	329.2	363.9	381.2	315.2
100°	425.8	415.3	373.0	330.7	373.0	415.3	425.8	424.0	421.4	420.1	346.8
102.5°	530.5	521.4	485.2	449.0	485.2	521.4	530.5	497.4	453.2	431.1	356.8
105°	652.7	647.8	628.4	608.9	628.4	647.8	652.7	578.4	479.4	429.9	358.0
107.5°	716.2	717.4	722.0	726.8	722.0	717.4	716.2	612.7	474.5	405.5	342.0
110°	732.5	737.5	757.8	778.0	757.8	737.5	732.5	616.7	462.3	385.1	327.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	722.1	729.9	761.1	792.2	761.1	729.9	722.1	603.6	445.6	366.5	315.6
115°	686.9	697.6	740.8	784.0	740.8	697.6	686.9	572.6	420.4	344.3	301.3
117.5°	638.1	650.1	698.0	745.9	698.0	650.1	638.1	535.1	397.8	329.1	292.5
120°	605.4	617.1	663.5	710.1	663.5	617.1	605.4	511.3	385.7	323.0	289.6
122.5°	572.6	584.1	630.0	675.9	630.0	584.1	572.6	487.9	374.7	318.2	288.0
125°	529.3	539.8	582.0	624.3	582.0	539.8	529.3	457.2	361.2	313.2	286.7
127.5°	494.4	503.3	539.0	574.6	539.0	503.3	494.4	432.5	350.1	308.9	286.0
130°	472.5	480.7	513.7	546.6	513.7	480.7	472.5	417.4	344.0	307.3	286.4
132.5°	453.7	461.1	490.5	520.1	490.5	461.1	453.7	404.4	338.7	305.9	286.7
135°	427.2	433.5	459.0	484.4	459.0	433.5	427.2	385.9	330.9	303.4	286.4
137.5°	407.6	412.9	433.6	454.5	433.6	412.9	407.6	372.8	326.2	303.0	288.2
140°	392.0	396.9	416.3	435.8	416.3	396.9	392.0	361.9	321.7	301.5	288.5
142.5°	381.0	385.1	401.9	418.7	401.9	385.1	381.0	354.5	319.2	301.5	289.5
145°	364.5	367.6	380.4	393.0	380.4	367.6	364.5	342.8	314.0	299.6	289.6
147.5°	350.6	353.3	363.8	374.3	363.8	353.3	350.6	333.6	310.9	299.6	291.6
150°	342.7	344.9	353.4	361.9	353.4	344.9	342.7	328.3	309.1	299.6	292.5
152.5°	336.4	338.0	344.4	350.8	344.4	338.0	336.4	324.2	307.8	299.6	293.2
155°	328.9	330.0	334.2	338.5	334.2	330.0	328.9	319.1	306.1	299.6	294.7
157.5°	322.4	323.2	326.1	329.1	326.1	323.2	322.4	314.8	304.6	299.6	296.2
160°	319.1	319.5	321.3	323.0	321.3	319.5	319.1	312.6	303.9	299.6	296.9
162.5°	316.1	316.5	318.1	319.7	318.1	316.5	316.1	310.5	303.2	299.6	297.7
165°	311.3	311.7	313.5	315.3	313.5	311.7	311.3	307.4	302.1	299.6	298.7
167.5°	309.3	309.5	310.2	310.9	310.2	309.5	309.3	306.8	303.3	301.5	300.8
170°	309.3	309.3	309.3	309.3	309.3	309.3	309.3	306.8	303.3	301.5	301.5
172.5°	307.7	307.5	306.9	306.3	306.9	307.5	307.7	305.6	302.9	301.5	301.5
175°	305.5	305.5	305.5	305.5	305.5	305.5	305.5	304.2	302.4	301.5	301.9
177.5°	305.1	304.9	304.2	303.4	304.2	304.9	305.1	304.1	302.7	302.0	302.3
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934418

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1362.8	1369.4	1373.2	1378.5	1391.5
5°	1310.6	1335.4	1343.3	1362.8	1386.4
7.5°	1195.8	1271.5	1292.3	1339.3	1375.9
10°	1084.7	1160.5	1197.1	1308.0	1362.8
12.5°	1028.6	1073.1	1097.9	1253.2	1344.6
15°	993.4	1024.8	1043.0	1180.1	1323.6
17.5°	966.0	988.2	1001.2	1108.2	1295.0
20°	949.0	959.4	971.2	1056.1	1262.3
22.5°	937.2	930.7	939.9	1019.5	1217.9
25°	929.4	904.6	915.1	990.8	1165.7
27.5°	935.9	881.1	885.1	964.7	1110.9
30°	937.2	852.4	853.7	937.2	1049.6
32.5°	928.1	822.4	823.7	903.3	980.3
35°	905.9	787.1	785.9	864.2	886.3
37.5°	875.9	749.3	749.3	821.1	783.2
40°	839.4	711.5	715.3	764.9	691.9
42.5°	794.9	671.0	676.2	690.5	624.0
45°	746.6	631.8	635.7	583.5	571.8
47.5°	693.2	591.3	592.6	484.3	554.8
50°	629.2	549.5	544.4	415.2	553.5
52.5°	573.0	503.9	488.2	375.9	502.6
55°	518.2	455.6	421.7	345.9	466.0
57.5°	469.9	392.9	360.3	310.7	458.2
60°	425.5	331.6	306.8	272.8	420.3
62.5°	389.0	285.9	280.7	246.7	381.2
65°	349.9	254.5	253.2	224.6	323.8
67.5°	312.0	233.7	232.4	203.6	246.7
70°	271.5	211.4	208.9	181.5	182.8
72.5°	229.7	186.6	184.1	163.2	151.5
75°	188.0	158.0	156.6	142.3	122.7
77.5°	147.5	125.3	127.9	114.9	90.1
80°	105.7	91.4	94.0	82.2	67.9
82.5°	70.4	60.1	62.6	52.2	45.6
85°	39.1	34.0	35.3	27.4	20.8
87.5°	18.3	15.7	15.7	10.5	6.5
90°	9.0	5.7	5.3	3.7	2.1
92.5°	55.2	39.3	35.9	21.9	8.1
95°	135.9	76.6	70.2	44.9	19.6
97.5°	183.1	84.1	78.4	56.1	33.8
100°	200.3	90.4	85.4	65.0	44.8
102.5°	208.2	96.7	92.0	73.1	54.1
105°	214.0	106.1	102.1	86.1	70.0
107.5°	215.1	119.9	116.2	101.3	86.4
110°	213.5	127.6	124.3	110.8	97.3



TEST NUMBER: P934418

CATALOG NUMBER: SQ4-FA-050U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	213.5	137.0	133.8	120.9	108.1
115°	215.5	151.1	148.1	136.2	124.4
117.5°	219.5	164.7	162.0	151.3	140.5
120°	222.8	172.7	170.1	160.1	149.9
122.5°	227.4	182.1	179.5	169.3	159.1
125°	233.8	194.0	191.7	182.4	173.1
127.5°	240.1	205.7	203.3	193.9	184.5
130°	244.7	213.4	210.8	200.8	190.6
132.5°	248.5	219.7	217.2	207.1	196.9
135°	252.5	227.0	224.8	215.5	206.3
137.5°	258.7	236.4	234.2	225.0	215.9
140°	262.3	242.8	240.7	232.2	223.8
142.5°	265.5	247.4	245.4	237.7	229.9
145°	269.5	254.5	252.8	246.0	239.3
147.5°	275.6	263.5	261.8	255.3	248.7
150°	278.6	268.1	266.7	260.6	254.7
152.5°	280.7	271.2	270.1	265.6	261.0
155°	285.1	277.9	277.1	273.8	270.4
157.5°	289.6	284.6	283.9	280.6	277.3
160°	291.7	287.7	287.1	284.5	282.1
162.5°	293.8	291.0	290.5	288.6	286.7
165°	297.0	295.7	295.3	293.5	291.9
167.5°	299.4	298.3	298.1	297.3	296.5
170°	301.4	301.3	301.1	300.4	299.6
172.5°	301.5	301.5	301.5	301.3	301.1
175°	302.8	303.4	303.4	303.4	303.4
177.5°	302.9	303.4	303.4	303.4	303.4
180°	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934418  
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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	14.89	15.90	15.72	16.75	17.80	17.69	18.70	18.51	19.55	20.59
	3H	15.38	16.29	16.22	17.14	18.22	19.04	19.94	19.87	20.80	21.87
	4H	15.58	16.44	16.43	17.30	18.38	19.48	20.34	20.34	21.20	22.29
	6H	15.71	16.50	16.57	17.37	18.46	19.77	20.56	20.63	21.43	22.52
	8H	15.71	16.46	16.59	17.35	18.45	19.84	20.59	20.72	21.48	22.58
	12H	15.69	16.41	16.57	17.29	18.41	19.88	20.60	20.76	21.48	22.60
4H	2H	15.94	16.79	16.79	17.65	18.74	18.12	18.98	18.98	19.84	20.92
	3H	16.98	17.69	17.85	18.58	19.69	19.63	20.34	20.50	21.24	22.34
	4H	17.26	17.91	18.14	18.80	19.93	20.16	20.81	21.04	21.70	22.83
	6H	17.39	17.96	18.29	18.87	20.00	20.52	21.08	21.42	22.00	23.13
	8H	17.40	17.93	18.30	18.84	19.98	20.63	21.15	21.53	22.06	23.21
	12H	17.38	17.85	18.30	18.78	19.93	20.69	21.16	21.61	22.09	23.24
8H	4H	17.72	18.24	18.62	19.15	20.30	20.30	20.82	21.19	21.73	22.87
	6H	17.99	18.42	18.91	19.37	20.52	20.73	21.16	21.66	22.11	23.26
	8H	18.03	18.42	18.97	19.36	20.52	20.88	21.26	21.81	22.21	23.37
	12H	18.02	18.36	18.96	19.30	20.51	20.98	21.32	21.92	22.25	23.46
12H	4H	17.73	18.20	18.65	19.13	20.28	20.27	20.74	21.19	21.67	22.82
	6H	18.05	18.43	18.98	19.38	20.54	20.73	21.11	21.66	22.06	23.22
	8H	18.12	18.46	19.06	19.40	20.61	20.89	21.23	21.83	22.17	23.38