

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: P936150

Luminaire Tested: SQ4-FA-150U-125D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

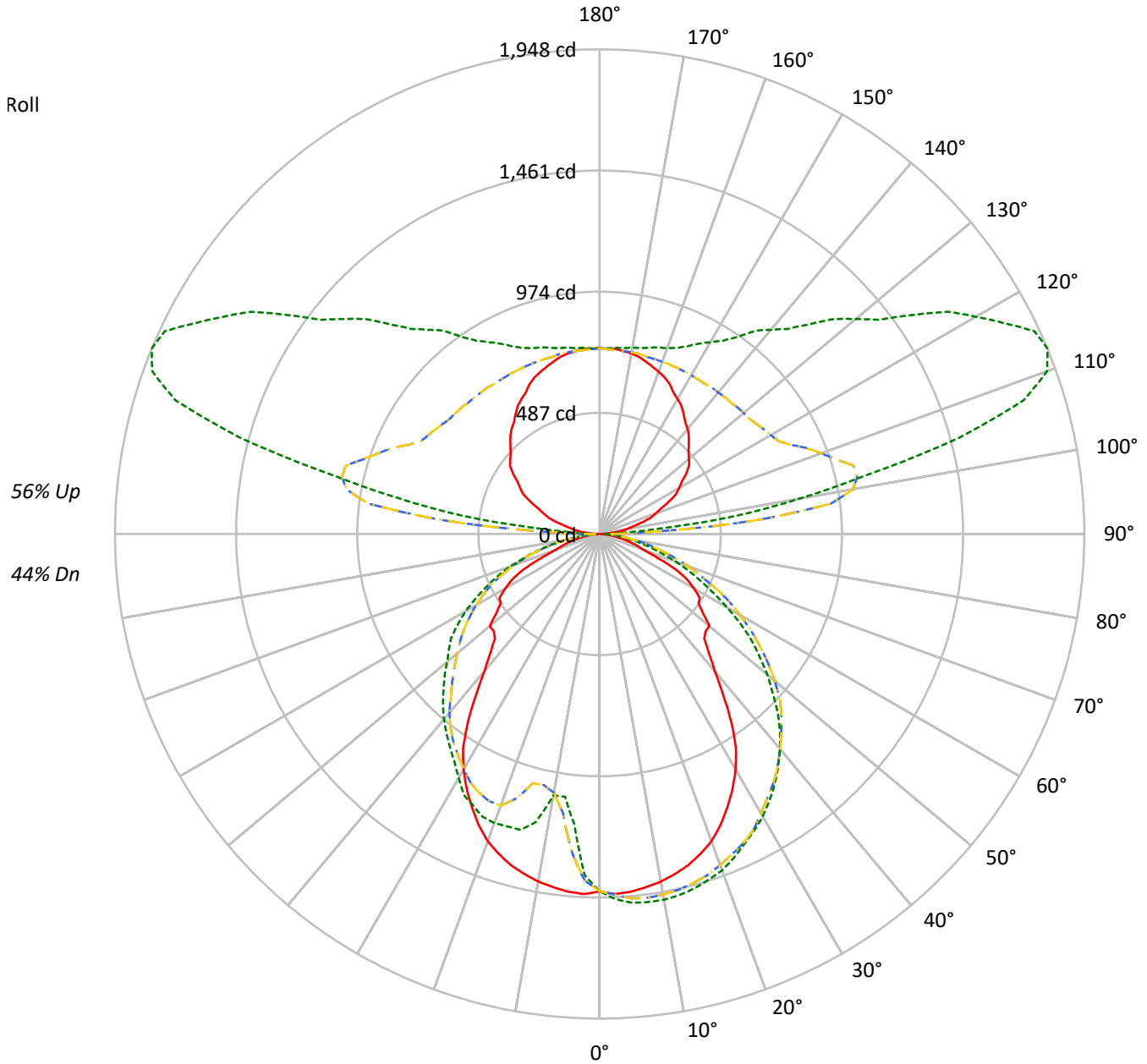
Test Method: LM-79-2019  
Report Number: P936150  
REPORT IS A COMBINATION OF REPORTS P933782 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8564.8 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 83.2  
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



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44	44	44	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37	37	37	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31	31	31	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26	26	26	26
4	73	63	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22	22	22	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19	19	19	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17	17	17	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15	15	15	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13	13	13	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12	12	12	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	16	18	15	13	11	11	11	11

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

	0°	90°	180°	270°
0°	13329	13329	13329	13329
5°	13414	13454	13414	10580
10°	13309	13253	13309	9476
15°	13149	12967	13149	10827
20°	12859	12626	12859	10849
25°	12281	12130	12281	10620
30°	11540	11718	11540	10115
35°	10272	11197	10272	9561
40°	8545	10583	8545	9141
45°	7620	9866	7620	8659
50°	8077	9010	8077	8176
55°	7579	8087	7579	7896
60°	7784	6869	7784	7232
65°	7023	5678	7023	6347
70°	4829	4525	4829	5319
75°	4191	3345	4191	4006
80°	3309	2211	3309	2406
85°	1805	1172	1805	995

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11701 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.7	1.5
10°-20°	368.1	4.3
20°-30°	569.1	6.6
30°-40°	679.4	7.9
40°-50°	683.3	8.0
50°-60°	594.6	6.9
60°-70°	421.6	4.9
70°-80°	223.0	2.6
80°-90°	58.4	0.7
90°-100°	363.8	4.2
100°-110°	956.4	11.2
110°-120°	991.6	11.6
120°-130°	795.4	9.3
130°-140°	624.1	7.3
140°-150°	479.0	5.6
150°-160°	345.0	4.0
160°-170°	211.1	2.5
170°-180°	71.3	0.8
0°-30°	1066.9	12.5
0°-40°	1746.2	20.4
0°-60°	3024.2	35.3
0°-90°	3727.2	43.5
90°-120°	2311.7	27.0
90°-150°	4210.3	49.2
90°-180°	4838.0	56.5
0°-180°	8564.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1436	1436	1436	1436	1436	
5°	1443	1488	1443	1170	1443	137
15°	1378	1474	1378	1231	1378	388
25°	1214	1375	1214	1204	1214	557
35°	923	1227	923	1048	923	571
45°	595	1011	595	887	595	477
55°	485	746	485	728	485	446
65°	337	450	337	503	337	322
75°	128	213	128	256	128	134
85°	22	54	22	46	22	29
90°	5	19	5	19	5	5
95°	48	220	48	220	48	53
105°	172	1498	172	1498	172	183
115°	306	1928	306	1928	306	302
125°	426	1536	426	1536	426	378
135°	507	1192	507	1192	507	393
145°	588	967	588	967	588	369
155°	665	832	665	832	665	306
165°	718	775	718	775	718	203
175°	746	751	746	751	746	71
180°	746	746	746	746	746	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1448.6	1448.6	1456.8	1459.5	1459.5	1455.4	1451.3	1455.4	1467.6	1471.7	1470.4
5°	1443.2	1454.1	1469.0	1471.7	1474.5	1473.1	1470.4	1473.1	1486.7	1489.4	1490.8
7.5°	1432.3	1452.7	1471.7	1475.8	1479.8	1475.8	1474.5	1477.2	1490.8	1493.5	1493.5
10°	1418.7	1447.2	1469.0	1471.7	1475.8	1471.7	1471.7	1477.2	1490.8	1493.5	1494.9
12.5°	1399.7	1439.1	1459.5	1462.2	1467.6	1466.3	1464.9	1470.4	1483.9	1486.7	1486.7
15°	1377.9	1424.2	1443.2	1445.9	1455.4	1452.7	1452.7	1458.2	1473.1	1477.2	1475.8
17.5°	1348.1	1405.2	1426.9	1430.9	1437.8	1436.4	1437.8	1443.2	1456.8	1459.5	1460.8
20°	1314.1	1379.3	1405.2	1409.2	1416.0	1416.0	1416.0	1422.8	1436.4	1441.9	1441.9
22.5°	1267.9	1352.2	1379.3	1382.0	1390.2	1390.2	1392.9	1402.4	1414.6	1416.0	1416.0
25°	1213.5	1322.2	1345.3	1353.5	1361.6	1365.7	1369.8	1375.2	1379.3	1377.9	1379.3
27.5°	1156.5	1284.2	1314.1	1319.5	1330.4	1334.5	1339.9	1341.3	1342.6	1346.7	1344.0
30°	1092.6	1231.2	1276.0	1281.5	1299.2	1301.8	1296.4	1299.2	1305.9	1308.6	1311.4
32.5°	1020.5	1152.4	1236.6	1248.8	1265.2	1257.0	1255.7	1259.7	1270.6	1270.6	1273.3
35°	922.7	1091.2	1199.9	1210.8	1223.0	1213.5	1219.0	1220.3	1227.1	1231.2	1229.9
37.5°	815.4	1038.2	1161.9	1170.1	1179.5	1167.3	1175.5	1179.5	1185.0	1182.3	1182.3
40°	720.2	955.3	1117.1	1122.5	1130.6	1121.1	1129.3	1132.0	1134.7	1132.0	1130.6
42.5°	649.5	864.3	1069.5	1076.3	1070.8	1077.6	1080.4	1085.8	1081.7	1076.3	1076.3
45°	595.2	839.9	1017.8	1026.0	1017.8	1028.7	1032.8	1032.8	1020.5	1017.8	1016.5
47.5°	577.5	790.9	966.2	966.2	962.2	975.7	982.5	973.0	960.8	956.7	956.7
50°	576.2	736.5	895.5	890.1	909.2	925.5	918.6	909.2	899.6	884.7	884.7
52.5°	523.2	669.9	804.5	824.8	854.8	864.3	853.4	843.9	827.6	820.8	815.4
55°	485.2	600.6	721.6	762.4	793.6	805.8	785.5	775.9	751.5	747.4	744.7
57.5°	477.0	500.1	645.5	697.2	735.1	733.9	721.6	703.9	683.5	679.5	678.1
60°	437.6	361.5	563.9	625.1	664.5	660.5	649.5	633.2	614.2	611.5	608.8
62.5°	396.8	262.3	471.5	540.8	596.5	595.2	585.7	561.2	547.6	540.8	535.4
65°	337.0	220.2	335.7	449.8	530.0	532.7	512.3	494.6	479.7	471.5	470.2
67.5°	256.8	179.4	226.9	375.1	466.1	463.4	437.6	429.4	410.4	406.3	398.2
70°	190.2	119.6	157.6	304.4	403.6	396.8	376.4	366.9	349.2	339.7	334.3
72.5°	157.6	96.5	115.5	236.5	339.7	331.6	313.9	303.1	288.1	279.9	274.5
75°	127.8	101.9	88.3	175.3	275.8	270.5	254.1	243.2	231.0	220.2	221.5
77.5°	93.8	95.2	70.7	129.1	218.8	210.6	201.2	187.5	182.1	171.2	171.2
80°	70.7	74.8	53.0	88.3	157.6	157.6	149.5	140.0	130.5	125.0	125.0
82.5°	47.5	47.5	39.4	55.7	107.4	103.3	97.8	95.2	89.7	87.0	87.0
85°	21.8	27.1	24.5	34.0	58.5	61.2	61.2	58.5	57.1	54.4	55.7
87.5°	6.8	12.2	14.9	19.0	29.9	31.2	32.6	32.6	32.6	34.0	34.0
90°	5.0	9.0	13.0	14.1	22.1	32.8	38.1	33.8	25.4	19.0	19.0
92.5°	20.0	54.0	88.2	96.7	135.9	188.1	214.3	187.8	134.9	95.2	91.4
95°	48.1	110.4	172.7	188.3	334.4	529.2	626.6	559.1	424.2	323.0	311.6
97.5°	83.1	138.1	193.1	206.9	450.4	775.2	937.6	894.9	809.7	745.7	723.9
100°	110.2	160.0	209.9	222.4	492.6	853.0	1033.2	1036.4	1042.6	1047.3	1021.3
102.5°	133.2	179.8	226.3	237.9	512.1	877.5	1060.3	1114.6	1223.2	1304.7	1282.5
105°	172.3	211.8	251.1	261.0	526.4	880.2	1057.2	1179.0	1422.5	1605.2	1593.2
107.5°	212.4	249.1	285.9	295.0	529.1	841.1	997.2	1167.0	1506.7	1761.5	1764.4
110°	239.4	272.5	305.8	314.1	525.1	806.4	947.1	1137.0	1516.7	1801.5	1814.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	266.0	297.6	329.2	337.1	525.2	776.1	901.5	1095.9	1484.5	1776.0	1795.1
115°	306.0	335.2	364.3	371.6	530.1	741.3	846.9	1034.1	1408.5	1689.4	1715.9
117.5°	345.6	372.1	398.6	405.2	539.9	719.6	809.3	978.3	1316.2	1569.6	1599.1
120°	368.6	393.6	418.4	424.7	547.9	712.2	794.3	948.7	1257.4	1489.0	1517.6
122.5°	391.1	416.3	441.5	447.8	559.5	708.4	782.8	921.8	1199.8	1408.4	1436.6
125°	425.8	448.6	471.6	477.3	574.9	705.2	770.3	888.4	1124.5	1301.7	1327.7
127.5°	453.8	476.9	500.0	505.8	590.4	703.3	759.8	861.2	1064.0	1216.1	1238.0
130°	468.8	493.7	518.6	524.8	601.8	704.5	755.8	846.0	1026.6	1161.9	1182.2
132.5°	484.3	509.3	534.2	540.4	611.0	705.2	752.3	833.0	994.7	1115.8	1134.0
135°	507.3	530.1	552.7	558.4	621.0	704.5	746.2	813.9	949.2	1050.7	1066.4
137.5°	530.9	553.3	575.8	581.5	636.1	708.9	745.3	802.4	916.9	1002.7	1015.5
140°	550.5	571.2	591.9	597.0	645.3	709.6	741.7	791.1	890.0	964.1	976.0
142.5°	565.5	584.6	603.7	608.5	652.9	712.1	741.7	785.2	872.0	937.1	947.4
145°	588.5	605.2	621.8	626.0	663.0	712.2	736.8	772.2	843.2	896.5	904.3
147.5°	611.5	627.8	644.0	648.1	677.7	717.1	736.8	764.7	820.5	862.4	868.8
150°	626.6	641.3	655.9	659.6	685.3	719.6	736.8	760.4	807.5	842.9	848.1
152.5°	642.1	653.2	664.3	667.1	690.3	721.3	736.8	756.9	797.2	827.4	831.3
155°	665.1	673.4	681.6	683.7	701.3	724.9	736.8	752.8	784.9	808.9	811.5
157.5°	682.1	690.2	698.1	700.1	712.3	728.6	736.8	749.2	774.1	792.8	794.6
160°	693.6	699.9	706.2	707.7	717.4	730.3	736.8	747.4	768.8	784.8	785.8
162.5°	705.2	709.9	714.5	715.7	722.7	732.1	736.8	745.7	763.8	777.3	778.3
165°	717.7	721.9	726.2	727.2	730.4	734.7	736.8	743.2	756.1	765.7	766.8
167.5°	729.2	731.2	733.2	733.7	736.4	740.0	741.7	746.0	754.4	760.8	761.2
170°	736.8	738.8	740.8	741.2	741.4	741.7	741.7	746.0	754.4	760.8	760.8
172.5°	740.8	741.2	741.7	741.7	741.7	741.7	741.7	745.1	751.8	756.7	756.3
175°	746.2	746.2	746.2	746.2	744.7	742.7	741.7	743.8	748.1	751.3	751.3
177.5°	746.2	746.2	746.2	746.2	745.1	743.6	742.8	744.5	747.8	750.2	749.8
180°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1473.1	1469.0	1473.1	1470.4	1471.7	1467.6	1455.4	1451.3	1455.4	1459.5	1459.5
5°	1490.8	1488.0	1490.8	1490.8	1489.4	1486.7	1473.1	1470.4	1473.1	1474.5	1471.7
7.5°	1496.1	1492.1	1496.1	1493.5	1493.5	1490.8	1477.2	1474.5	1475.8	1479.8	1475.8
10°	1496.1	1492.1	1496.1	1494.9	1493.5	1490.8	1477.2	1471.7	1471.7	1475.8	1471.7
12.5°	1489.4	1486.7	1489.4	1486.7	1486.7	1483.9	1470.4	1464.9	1466.3	1467.6	1462.2
15°	1478.5	1474.5	1478.5	1475.8	1477.2	1473.1	1458.2	1452.7	1452.7	1455.4	1445.9
17.5°	1462.2	1456.8	1462.2	1460.8	1459.5	1456.8	1443.2	1437.8	1436.4	1437.8	1430.9
20°	1443.2	1439.1	1443.2	1441.9	1441.9	1436.4	1422.8	1416.0	1416.0	1416.0	1409.2
22.5°	1413.3	1409.2	1413.3	1416.0	1416.0	1414.6	1402.4	1392.9	1390.2	1390.2	1382.0
25°	1379.3	1375.2	1379.3	1379.3	1377.9	1379.3	1375.2	1369.8	1365.7	1361.6	1353.5
27.5°	1346.7	1344.0	1346.7	1344.0	1346.7	1342.6	1341.3	1339.9	1334.5	1330.4	1319.5
30°	1314.1	1311.4	1314.1	1311.4	1308.6	1305.9	1299.2	1296.4	1301.8	1299.2	1281.5
32.5°	1273.3	1270.6	1273.3	1273.3	1270.6	1270.6	1259.7	1255.7	1257.0	1265.2	1248.8
35°	1231.2	1227.1	1231.2	1229.9	1231.2	1227.1	1220.3	1219.0	1213.5	1223.0	1210.8
37.5°	1182.3	1178.2	1182.3	1182.3	1182.3	1185.0	1179.5	1175.5	1167.3	1179.5	1170.1
40°	1132.0	1126.5	1132.0	1130.6	1132.0	1134.7	1132.0	1129.3	1121.1	1130.6	1122.5
42.5°	1074.9	1073.5	1074.9	1076.3	1076.3	1081.7	1085.8	1080.4	1077.6	1070.8	1076.3
45°	1013.8	1011.1	1013.8	1016.5	1017.8	1020.5	1032.8	1032.8	1028.7	1017.8	1026.0
47.5°	948.5	941.8	948.5	956.7	956.7	960.8	973.0	982.5	975.7	962.2	966.2
50°	879.2	880.6	879.2	884.7	884.7	899.6	909.2	918.6	925.5	909.2	890.1
52.5°	811.3	809.9	811.3	815.4	820.8	827.6	843.9	853.4	864.3	854.8	824.8
55°	743.3	746.1	743.3	744.7	747.4	751.5	775.9	785.5	805.8	793.6	762.4
57.5°	675.4	671.3	675.4	678.1	679.5	683.5	703.9	721.6	733.9	735.1	697.2
60°	596.5	591.2	596.5	608.8	611.5	614.2	633.2	649.5	660.5	664.5	625.1
62.5°	527.2	517.8	527.2	535.4	540.8	547.6	561.2	585.7	595.2	596.5	540.8
65°	453.9	449.8	453.9	470.2	471.5	479.7	494.6	512.3	532.7	530.0	449.8
67.5°	387.3	387.3	387.3	398.2	406.3	410.4	429.4	437.6	463.4	466.1	375.1
70°	326.2	324.8	326.2	334.3	339.7	349.2	366.9	376.4	396.8	403.6	304.4
72.5°	267.7	266.4	267.7	274.5	279.9	288.1	303.1	313.9	331.6	339.7	236.5
75°	216.1	213.4	216.1	221.5	220.2	231.0	243.2	254.1	270.5	275.8	175.3
77.5°	165.8	165.8	165.8	171.2	171.2	182.1	187.5	201.2	210.6	218.8	129.1
80°	123.7	122.3	123.7	125.0	125.0	130.5	140.0	149.5	157.6	157.6	88.3
82.5°	87.0	84.2	87.0	87.0	87.0	89.7	95.2	97.8	103.3	107.4	55.7
85°	54.4	54.4	54.4	55.7	54.4	57.1	58.5	61.2	61.2	58.5	34.0
87.5°	35.3	34.0	35.3	34.0	34.0	32.6	32.6	32.6	31.2	29.9	19.0
90°	19.0	19.0	19.0	19.0	19.0	25.4	33.8	38.1	32.8	22.1	14.1
92.5°	76.2	61.1	76.2	91.4	95.2	134.9	187.8	214.3	188.1	135.9	96.7
95°	265.7	219.9	265.7	311.6	323.0	424.2	559.1	626.6	529.2	334.4	188.3
97.5°	636.7	549.4	636.7	723.9	745.7	809.7	894.9	937.6	775.2	450.4	206.9
100°	917.3	813.4	917.3	1021.3	1047.3	1042.6	1036.4	1033.2	853.0	492.6	222.4
102.5°	1193.4	1104.4	1193.4	1282.5	1304.7	1223.2	1114.6	1060.3	877.5	512.1	237.9
105°	1545.4	1497.5	1545.4	1593.2	1605.2	1422.5	1179.0	1057.2	880.2	526.4	261.0
107.5°	1775.9	1787.5	1775.9	1764.4	1761.5	1506.7	1167.0	997.2	841.1	529.1	295.0
110°	1863.8	1913.7	1863.8	1814.0	1801.5	1516.7	1137.0	947.1	806.4	525.1	314.1





TEST NUMBER: P936150

CATALOG NUMBER: SQ4-FA-150U-125D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1871.7	1948.2	1871.7	1795.1	1776.0	1484.5	1095.9	901.5	776.1	525.2	337.1
115°	1822.1	1928.2	1822.1	1715.9	1689.4	1408.5	1034.1	846.9	741.3	530.1	371.6
117.5°	1716.8	1834.5	1716.8	1599.1	1569.6	1316.2	978.3	809.3	719.6	539.9	405.2
120°	1632.0	1746.4	1632.0	1517.6	1489.0	1257.4	948.7	794.3	712.2	547.9	424.7
122.5°	1549.5	1662.3	1549.5	1436.6	1408.4	1199.8	921.8	782.8	708.4	559.5	447.8
125°	1431.6	1535.6	1431.6	1327.7	1301.7	1124.5	888.4	770.3	705.2	574.9	477.3
127.5°	1325.7	1413.4	1325.7	1238.0	1216.1	1064.0	861.2	759.8	703.3	590.4	505.8
130°	1263.2	1344.2	1263.2	1182.2	1161.9	1026.6	846.0	755.8	704.5	601.8	524.8
132.5°	1206.5	1279.1	1206.5	1134.0	1115.8	994.7	833.0	752.3	705.2	611.0	540.4
135°	1128.9	1191.5	1128.9	1066.4	1050.7	949.2	813.9	746.2	704.5	621.0	558.4
137.5°	1066.7	1117.9	1066.7	1015.5	1002.7	916.9	802.4	745.3	708.9	636.1	581.5
140°	1023.9	1071.8	1023.9	976.0	964.1	890.0	791.1	741.7	709.6	645.3	597.0
142.5°	988.6	1029.7	988.6	947.4	937.1	872.0	785.2	741.7	712.1	652.9	608.5
145°	935.5	966.7	935.5	904.3	896.5	843.2	772.2	736.8	712.2	663.0	626.0
147.5°	894.7	920.6	894.7	868.8	862.4	820.5	764.7	736.8	717.1	677.7	648.1
150°	869.1	890.0	869.1	848.1	842.9	807.5	760.4	736.8	719.6	685.3	659.6
152.5°	847.2	862.9	847.2	831.3	827.4	797.2	756.9	736.8	721.3	690.3	667.1
155°	822.0	832.4	822.0	811.5	808.9	784.9	752.8	736.8	724.9	701.3	683.7
157.5°	802.0	809.3	802.0	794.6	792.8	774.1	749.2	736.8	728.6	712.3	700.1
160°	790.1	794.3	790.1	785.8	784.8	768.8	747.4	736.8	730.3	717.4	707.7
162.5°	782.3	786.3	782.3	778.3	777.3	763.8	745.7	736.8	732.1	722.7	715.7
165°	771.0	775.3	771.0	766.8	765.7	756.1	743.2	736.8	734.7	730.4	727.2
167.5°	763.0	764.8	763.0	761.2	760.8	754.4	746.0	741.7	740.0	736.4	733.7
170°	760.8	760.8	760.8	760.8	760.8	754.4	746.0	741.7	741.7	741.4	741.2
172.5°	754.8	753.3	754.8	756.3	756.7	751.8	745.1	741.7	741.7	741.7	741.7
175°	751.3	751.3	751.3	751.3	751.3	748.1	743.8	741.7	742.7	744.7	746.2
177.5°	748.0	746.2	748.0	749.8	750.2	747.8	744.5	742.8	743.6	745.1	746.2
180°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2



TEST NUMBER: P936150  
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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1456.8	1448.6	1448.6	1435.0	1429.6	1425.5	1418.7	1398.3	1392.9	1387.5	1395.6
5°	1469.0	1454.1	1443.2	1418.7	1398.3	1390.2	1364.4	1315.5	1282.9	1258.4	1244.8
7.5°	1471.7	1452.7	1432.3	1394.2	1345.3	1323.6	1244.8	1155.1	1130.6	1108.9	1095.3
10°	1469.0	1447.2	1418.7	1361.6	1246.2	1208.1	1129.3	1070.8	1055.9	1051.8	1055.9
12.5°	1459.5	1439.1	1399.7	1304.6	1142.8	1117.1	1070.8	1036.8	1034.2	1040.9	1077.6
15°	1443.2	1424.2	1377.9	1228.5	1085.8	1066.8	1034.2	1021.9	1036.8	1084.5	1194.5
17.5°	1426.9	1405.2	1348.1	1153.8	1042.3	1028.7	1005.6	1030.1	1114.3	1178.2	1214.9
20°	1405.2	1379.3	1314.1	1099.4	1011.1	998.9	987.9	1098.0	1161.9	1185.0	1205.4
22.5°	1379.3	1352.2	1267.9	1061.3	978.5	968.9	975.7	1136.1	1161.9	1178.2	1195.8
25°	1345.3	1322.2	1213.5	1031.5	952.6	941.8	967.5	1132.0	1146.9	1151.0	1186.4
27.5°	1314.1	1284.2	1156.5	1004.2	921.4	917.3	974.4	1114.3	1125.2	1129.3	1167.3
30°	1276.0	1231.2	1092.6	975.7	888.8	887.4	975.7	1092.6	1089.8	1100.8	1138.8
32.5°	1236.6	1152.4	1020.5	940.4	857.5	856.2	966.2	1060.0	1057.2	1072.2	1100.8
35°	1199.9	1091.2	922.7	899.6	818.1	819.5	943.1	1021.9	1023.3	1036.8	1054.5
37.5°	1161.9	1038.2	815.4	854.8	780.0	780.0	911.8	986.6	983.8	987.9	1012.4
40°	1117.1	955.3	720.2	796.3	744.7	740.6	873.8	948.5	939.0	937.7	971.6
42.5°	1069.5	864.3	649.5	718.8	703.9	698.5	827.6	902.3	884.7	888.8	932.2
45°	1017.8	839.9	595.2	607.5	661.8	657.7	777.3	849.3	837.1	848.0	892.9
47.5°	966.2	790.9	577.5	504.2	616.9	615.6	721.6	797.7	790.9	801.8	849.3
50°	895.5	736.5	576.2	432.2	566.7	572.1	655.0	747.4	747.4	756.9	807.2
52.5°	804.5	669.9	523.2	391.4	508.2	524.5	596.5	703.9	706.6	716.2	761.0
55°	721.6	600.6	485.2	360.1	438.9	474.3	539.5	659.1	664.5	674.0	714.8
57.5°	645.5	500.1	477.0	323.4	375.1	409.0	489.2	615.6	618.3	626.5	665.8
60°	563.9	361.5	437.6	284.0	319.4	345.1	443.0	563.9	573.5	578.9	612.8
62.5°	471.5	262.3	396.8	256.8	292.1	297.6	405.0	515.0	527.2	531.3	551.7
65°	335.7	220.2	337.0	233.8	263.6	265.0	364.2	464.8	475.6	482.4	497.4
67.5°	226.9	179.4	256.8	212.0	241.9	243.2	324.8	406.3	421.3	426.7	436.2
70°	157.6	119.6	190.2	188.9	217.5	220.2	282.7	353.3	366.9	371.0	376.4
72.5°	115.5	96.5	157.6	169.8	191.6	194.3	239.1	293.5	307.1	311.2	313.9
75°	88.3	101.9	127.8	148.2	163.1	164.5	195.7	239.1	248.7	251.4	252.8
77.5°	70.7	95.2	93.8	119.6	133.1	130.5	153.5	184.9	193.0	193.0	193.0
80°	53.0	74.8	70.7	85.6	97.8	95.2	110.1	131.9	134.5	137.2	135.9
82.5°	39.4	47.5	47.5	54.4	65.2	62.5	73.4	85.6	85.6	85.6	88.3
85°	24.5	27.1	21.8	28.5	36.7	35.3	40.8	46.2	47.5	47.5	44.8
87.5°	14.9	12.2	6.8	10.8	16.3	16.3	19.0	20.4	19.0	19.0	19.0
90°	13.0	9.0	5.0	9.0	13.0	14.1	22.1	32.8	38.1	33.8	25.4
92.5°	88.2	54.0	20.0	54.0	88.2	96.7	135.9	188.1	214.3	187.8	134.9
95°	172.7	110.4	48.1	110.4	172.7	188.3	334.4	529.2	626.6	559.1	424.2
97.5°	193.1	138.1	83.1	138.1	193.1	206.9	450.4	775.2	937.6	894.9	809.7
100°	209.9	160.0	110.2	160.0	209.9	222.4	492.6	853.0	1033.2	1036.4	1042.6
102.5°	226.3	179.8	133.2	179.8	226.3	237.9	512.1	877.5	1060.3	1114.6	1223.2
105°	251.1	211.8	172.3	211.8	251.1	261.0	526.4	880.2	1057.2	1179.0	1422.5
107.5°	285.9	249.1	212.4	249.1	285.9	295.0	529.1	841.1	997.2	1167.0	1506.7
110°	305.8	272.5	239.4	272.5	305.8	314.1	525.1	806.4	947.1	1137.0	1516.7



TEST NUMBER: P936150

CATALOG NUMBER: SQ4-FA-150U-125D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	329.2	297.6	266.0	297.6	329.2	337.1	525.2	776.1	901.5	1095.9	1484.5
115°	364.3	335.2	306.0	335.2	364.3	371.6	530.1	741.3	846.9	1034.1	1408.5
117.5°	398.6	372.1	345.6	372.1	398.6	405.2	539.9	719.6	809.3	978.3	1316.2
120°	418.4	393.6	368.6	393.6	418.4	424.7	547.9	712.2	794.3	948.7	1257.4
122.5°	441.5	416.3	391.1	416.3	441.5	447.8	559.5	708.4	782.8	921.8	1199.8
125°	471.6	448.6	425.8	448.6	471.6	477.3	574.9	705.2	770.3	888.4	1124.5
127.5°	500.0	476.9	453.8	476.9	500.0	505.8	590.4	703.3	759.8	861.2	1064.0
130°	518.6	493.7	468.8	493.7	518.6	524.8	601.8	704.5	755.8	846.0	1026.6
132.5°	534.2	509.3	484.3	509.3	534.2	540.4	611.0	705.2	752.3	833.0	994.7
135°	552.7	530.1	507.3	530.1	552.7	558.4	621.0	704.5	746.2	813.9	949.2
137.5°	575.8	553.3	530.9	553.3	575.8	581.5	636.1	708.9	745.3	802.4	916.9
140°	591.9	571.2	550.5	571.2	591.9	597.0	645.3	709.6	741.7	791.1	890.0
142.5°	603.7	584.6	565.5	584.6	603.7	608.5	652.9	712.1	741.7	785.2	872.0
145°	621.8	605.2	588.5	605.2	621.8	626.0	663.0	712.2	736.8	772.2	843.2
147.5°	644.0	627.8	611.5	627.8	644.0	648.1	677.7	717.1	736.8	764.7	820.5
150°	655.9	641.3	626.6	641.3	655.9	659.6	685.3	719.6	736.8	760.4	807.5
152.5°	664.3	653.2	642.1	653.2	664.3	667.1	690.3	721.3	736.8	756.9	797.2
155°	681.6	673.4	665.1	673.4	681.6	683.7	701.3	724.9	736.8	752.8	784.9
157.5°	698.1	690.2	682.1	690.2	698.1	700.1	712.3	728.6	736.8	749.2	774.1
160°	706.2	699.9	693.6	699.9	706.2	707.7	717.4	730.3	736.8	747.4	768.8
162.5°	714.5	709.9	705.2	709.9	714.5	715.7	722.7	732.1	736.8	745.7	763.8
165°	726.2	721.9	717.7	721.9	726.2	727.2	730.4	734.7	736.8	743.2	756.1
167.5°	733.2	731.2	729.2	731.2	733.2	733.7	736.4	740.0	741.7	746.0	754.4
170°	740.8	738.8	736.8	738.8	740.8	741.2	741.4	741.7	741.7	746.0	754.4
172.5°	741.7	741.2	740.8	741.2	741.7	741.7	741.7	741.7	741.7	745.1	751.8
175°	746.2	746.2	746.2	746.2	746.2	746.2	744.7	742.7	741.7	743.8	748.1
177.5°	746.2	746.2	746.2	746.2	746.2	746.2	745.1	743.6	742.8	744.5	747.8
180°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2



TEST NUMBER: P936150  
 CATALOG NUMBER: SQ4-FA-150U-125D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1386.1	1382.0	1387.5	1372.5	1387.5	1382.0	1386.1	1395.6	1387.5	1392.9	1398.3
5°	1216.2	1209.5	1187.7	1170.1	1187.7	1209.5	1216.2	1244.8	1258.4	1282.9	1315.5
7.5°	1087.2	1081.7	1076.3	1065.4	1076.3	1081.7	1087.2	1095.3	1108.9	1130.6	1155.1
10°	1058.6	1060.0	1068.2	1066.8	1068.2	1060.0	1058.6	1055.9	1051.8	1055.9	1070.8
12.5°	1132.0	1144.2	1189.1	1186.4	1189.1	1144.2	1132.0	1077.6	1040.9	1034.2	1036.8
15°	1216.2	1220.3	1229.9	1231.2	1229.9	1220.3	1216.2	1194.5	1084.5	1036.8	1021.9
17.5°	1224.4	1225.8	1232.5	1232.5	1232.5	1225.8	1224.4	1214.9	1178.2	1114.3	1030.1
20°	1217.6	1220.3	1233.9	1236.6	1233.9	1220.3	1217.6	1205.4	1185.0	1161.9	1098.0
22.5°	1214.9	1220.3	1231.2	1229.9	1231.2	1220.3	1214.9	1195.8	1178.2	1161.9	1136.1
25°	1201.3	1201.3	1202.7	1204.0	1202.7	1201.3	1201.3	1186.4	1151.0	1146.9	1132.0
27.5°	1172.8	1175.5	1183.6	1182.3	1183.6	1175.5	1172.8	1167.3	1129.3	1125.2	1114.3
30°	1146.9	1144.2	1137.4	1132.0	1137.4	1144.2	1146.9	1138.8	1100.8	1089.8	1092.6
32.5°	1103.5	1096.7	1089.8	1085.8	1089.8	1096.7	1103.5	1100.8	1072.2	1057.2	1060.0
35°	1051.8	1053.1	1051.8	1047.8	1051.8	1053.1	1051.8	1054.5	1036.8	1023.3	1021.9
37.5°	1015.2	1017.8	1016.5	1011.1	1016.5	1017.8	1015.2	1012.4	987.9	983.8	986.6
40°	977.1	978.5	977.1	973.0	977.1	978.5	977.1	971.6	937.7	939.0	948.5
42.5°	940.4	939.0	934.9	932.2	934.9	939.0	940.4	932.2	888.8	884.7	902.3
45°	898.2	899.6	891.5	887.4	891.5	899.6	898.2	892.9	848.0	837.1	849.3
47.5°	856.2	856.2	849.3	845.2	849.3	856.2	856.2	849.3	801.8	790.9	797.7
50°	811.3	809.9	800.4	799.1	800.4	809.9	811.3	807.2	756.9	747.4	747.4
52.5°	759.6	759.6	761.0	763.7	761.0	759.6	759.6	761.0	716.2	706.6	703.9
55°	714.8	716.2	725.7	728.4	725.7	716.2	714.8	714.8	674.0	664.5	659.1
57.5°	668.6	668.6	675.4	675.4	675.4	668.6	668.6	665.8	626.5	618.3	615.6
60°	615.6	618.3	623.8	622.4	623.8	618.3	615.6	612.8	578.9	573.5	563.9
62.5°	559.9	562.6	563.9	561.2	563.9	562.6	559.9	551.7	531.3	527.2	515.0
65°	501.5	504.2	505.5	502.8	505.5	504.2	501.5	497.4	482.4	475.6	464.8
67.5°	441.6	440.3	438.9	444.4	438.9	440.3	441.6	436.2	426.7	421.3	406.3
70°	380.5	380.5	379.2	381.8	379.2	380.5	380.5	376.4	371.0	366.9	353.3
72.5°	315.3	313.9	319.4	315.3	319.4	313.9	315.3	313.9	311.2	307.1	293.5
75°	251.4	254.1	251.4	255.5	251.4	254.1	251.4	252.8	251.4	248.7	239.1
77.5°	191.6	194.3	191.6	191.6	191.6	194.3	191.6	193.0	193.0	193.0	184.9
80°	135.9	134.5	134.5	133.1	134.5	134.5	135.9	135.9	137.2	134.5	131.9
82.5°	87.0	85.6	85.6	88.3	85.6	85.6	87.0	88.3	85.6	85.6	85.6
85°	47.5	48.9	46.2	46.2	46.2	48.9	47.5	44.8	47.5	47.5	46.2
87.5°	17.7	16.3	16.3	16.3	16.3	16.3	17.7	19.0	19.0	19.0	20.4
90°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	25.4	33.8	38.1	32.8
92.5°	95.2	91.4	76.2	61.1	76.2	91.4	95.2	134.9	187.8	214.3	188.1
95°	323.0	311.6	265.7	219.9	265.7	311.6	323.0	424.2	559.1	626.6	529.2
97.5°	745.7	723.9	636.7	549.4	636.7	723.9	745.7	809.7	894.9	937.6	775.2
100°	1047.3	1021.3	917.3	813.4	917.3	1021.3	1047.3	1042.6	1036.4	1033.2	853.0
102.5°	1304.7	1282.5	1193.4	1104.4	1193.4	1282.5	1304.7	1223.2	1114.6	1060.3	877.5
105°	1605.2	1593.2	1545.4	1497.5	1545.4	1593.2	1605.2	1422.5	1179.0	1057.2	880.2
107.5°	1761.5	1764.4	1775.9	1787.5	1775.9	1764.4	1761.5	1506.7	1167.0	997.2	841.1
110°	1801.5	1814.0	1863.8	1913.7	1863.8	1814.0	1801.5	1516.7	1137.0	947.1	806.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1776.0	1795.1	1871.7	1948.2	1871.7	1795.1	1776.0	1484.5	1095.9	901.5	776.1
115°	1689.4	1715.9	1822.1	1928.2	1822.1	1715.9	1689.4	1408.5	1034.1	846.9	741.3
117.5°	1569.6	1599.1	1716.8	1834.5	1716.8	1599.1	1569.6	1316.2	978.3	809.3	719.6
120°	1489.0	1517.6	1632.0	1746.4	1632.0	1517.6	1489.0	1257.4	948.7	794.3	712.2
122.5°	1408.4	1436.6	1549.5	1662.3	1549.5	1436.6	1408.4	1199.8	921.8	782.8	708.4
125°	1301.7	1327.7	1431.6	1535.6	1431.6	1327.7	1301.7	1124.5	888.4	770.3	705.2
127.5°	1216.1	1238.0	1325.7	1413.4	1325.7	1238.0	1216.1	1064.0	861.2	759.8	703.3
130°	1161.9	1182.2	1263.2	1344.2	1263.2	1182.2	1161.9	1026.6	846.0	755.8	704.5
132.5°	1115.8	1134.0	1206.5	1279.1	1206.5	1134.0	1115.8	994.7	833.0	752.3	705.2
135°	1050.7	1066.4	1128.9	1191.5	1128.9	1066.4	1050.7	949.2	813.9	746.2	704.5
137.5°	1002.7	1015.5	1066.7	1117.9	1066.7	1015.5	1002.7	916.9	802.4	745.3	708.9
140°	964.1	976.0	1023.9	1071.8	1023.9	976.0	964.1	890.0	791.1	741.7	709.6
142.5°	937.1	947.4	988.6	1029.7	988.6	947.4	937.1	872.0	785.2	741.7	712.1
145°	896.5	904.3	935.5	966.7	935.5	904.3	896.5	843.2	772.2	736.8	712.2
147.5°	862.4	868.8	894.7	920.6	894.7	868.8	862.4	820.5	764.7	736.8	717.1
150°	842.9	848.1	869.1	890.0	869.1	848.1	842.9	807.5	760.4	736.8	719.6
152.5°	827.4	831.3	847.2	862.9	847.2	831.3	827.4	797.2	756.9	736.8	721.3
155°	808.9	811.5	822.0	832.4	822.0	811.5	808.9	784.9	752.8	736.8	724.9
157.5°	792.8	794.6	802.0	809.3	802.0	794.6	792.8	774.1	749.2	736.8	728.6
160°	784.8	785.8	790.1	794.3	790.1	785.8	784.8	768.8	747.4	736.8	730.3
162.5°	777.3	778.3	782.3	786.3	782.3	778.3	777.3	763.8	745.7	736.8	732.1
165°	765.7	766.8	771.0	775.3	771.0	766.8	765.7	756.1	743.2	736.8	734.7
167.5°	760.8	761.2	763.0	764.8	763.0	761.2	760.8	754.4	746.0	741.7	740.0
170°	760.8	760.8	760.8	760.8	760.8	760.8	760.8	754.4	746.0	741.7	741.7
172.5°	756.7	756.3	754.8	753.3	754.8	756.3	756.7	751.8	745.1	741.7	741.7
175°	751.3	751.3	751.3	751.3	751.3	751.3	751.3	748.1	743.8	741.7	742.7
177.5°	750.2	749.8	748.0	746.2	748.0	749.8	750.2	747.8	744.5	742.8	743.6
180°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1418.7	1425.5	1429.6	1435.0	1448.6
5°	1364.4	1390.2	1398.3	1418.7	1443.2
7.5°	1244.8	1323.6	1345.3	1394.2	1432.3
10°	1129.3	1208.1	1246.2	1361.6	1418.7
12.5°	1070.8	1117.1	1142.8	1304.6	1399.7
15°	1034.2	1066.8	1085.8	1228.5	1377.9
17.5°	1005.6	1028.7	1042.3	1153.8	1348.1
20°	987.9	998.9	1011.1	1099.4	1314.1
22.5°	975.7	968.9	978.5	1061.3	1267.9
25°	967.5	941.8	952.6	1031.5	1213.5
27.5°	974.4	917.3	921.4	1004.2	1156.5
30°	975.7	887.4	888.8	975.7	1092.6
32.5°	966.2	856.2	857.5	940.4	1020.5
35°	943.1	819.5	818.1	899.6	922.7
37.5°	911.8	780.0	780.0	854.8	815.4
40°	873.8	740.6	744.7	796.3	720.2
42.5°	827.6	698.5	703.9	718.8	649.5
45°	777.3	657.7	661.8	607.5	595.2
47.5°	721.6	615.6	616.9	504.2	577.5
50°	655.0	572.1	566.7	432.2	576.2
52.5°	596.5	524.5	508.2	391.4	523.2
55°	539.5	474.3	438.9	360.1	485.2
57.5°	489.2	409.0	375.1	323.4	477.0
60°	443.0	345.1	319.4	284.0	437.6
62.5°	405.0	297.6	292.1	256.8	396.8
65°	364.2	265.0	263.6	233.8	337.0
67.5°	324.8	243.2	241.9	212.0	256.8
70°	282.7	220.2	217.5	188.9	190.2
72.5°	239.1	194.3	191.6	169.8	157.6
75°	195.7	164.5	163.1	148.2	127.8
77.5°	153.5	130.5	133.1	119.6	93.8
80°	110.1	95.2	97.8	85.6	70.7
82.5°	73.4	62.5	65.2	54.4	47.5
85°	40.8	35.3	36.7	28.5	21.8
87.5°	19.0	16.3	16.3	10.8	6.8
90°	22.1	14.1	13.0	9.0	5.0
92.5°	135.9	96.7	88.2	54.0	20.0
95°	334.4	188.3	172.7	110.4	48.1
97.5°	450.4	206.9	193.1	138.1	83.1
100°	492.6	222.4	209.9	160.0	110.2
102.5°	512.1	237.9	226.3	179.8	133.2
105°	526.4	261.0	251.1	211.8	172.3
107.5°	529.1	295.0	285.9	249.1	212.4
110°	525.1	314.1	305.8	272.5	239.4



TEST NUMBER: P936150

CATALOG NUMBER: SQ4-FA-150U-125D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	525.2	337.1	329.2	297.6	266.0
115°	530.1	371.6	364.3	335.2	306.0
117.5°	539.9	405.2	398.6	372.1	345.6
120°	547.9	424.7	418.4	393.6	368.6
122.5°	559.5	447.8	441.5	416.3	391.1
125°	574.9	477.3	471.6	448.6	425.8
127.5°	590.4	505.8	500.0	476.9	453.8
130°	601.8	524.8	518.6	493.7	468.8
132.5°	611.0	540.4	534.2	509.3	484.3
135°	621.0	558.4	552.7	530.1	507.3
137.5°	636.1	581.5	575.8	553.3	530.9
140°	645.3	597.0	591.9	571.2	550.5
142.5°	652.9	608.5	603.7	584.6	565.5
145°	663.0	626.0	621.8	605.2	588.5
147.5°	677.7	648.1	644.0	627.8	611.5
150°	685.3	659.6	655.9	641.3	626.6
152.5°	690.3	667.1	664.3	653.2	642.1
155°	701.3	683.7	681.6	673.4	665.1
157.5°	712.3	700.1	698.1	690.2	682.1
160°	717.4	707.7	706.2	699.9	693.6
162.5°	722.7	715.7	714.5	709.9	705.2
165°	730.4	727.2	726.2	721.9	717.7
167.5°	736.4	733.7	733.2	731.2	729.2
170°	741.4	741.2	740.8	738.8	736.8
172.5°	741.7	741.7	741.7	741.2	740.8
175°	744.7	746.2	746.2	746.2	746.2
177.5°	745.1	746.2	746.2	746.2	746.2
180°	746.2	746.2	746.2	746.2	746.2



TEST NUMBER: P936150  
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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	13.16	13.97	14.17	14.99	16.35	15.96	16.76	16.97	17.78	19.15
	3H	13.63	14.36	14.66	15.39	16.77	17.29	18.01	18.31	19.04	20.42
	4H	13.82	14.51	14.86	15.54	16.93	17.73	18.41	18.76	19.44	20.83
	6H	13.94	14.57	14.98	15.61	17.01	18.00	18.63	19.04	19.67	21.07
	8H	13.94	14.54	14.99	15.59	16.99	18.07	18.67	19.12	19.72	21.12
	12H	13.91	14.48	14.96	15.52	16.95	18.10	18.67	19.15	19.72	21.14
4H	2H	14.18	14.86	15.22	15.90	17.28	16.36	17.05	17.40	18.08	19.47
	3H	15.20	15.77	16.25	16.83	18.23	17.85	18.42	18.90	19.48	20.89
	4H	15.47	16.00	16.53	17.05	18.47	18.37	18.89	19.43	19.95	21.37
	6H	15.60	16.05	16.66	17.12	18.54	18.73	19.18	19.79	20.25	21.67
	8H	15.60	16.02	16.67	17.09	18.52	18.83	19.25	19.89	20.31	21.75
	12H	15.57	15.94	16.65	17.03	18.47	18.88	19.26	19.96	20.34	21.78
8H	4H	15.92	16.34	16.98	17.41	18.84	18.49	18.91	19.56	19.98	21.41
	6H	16.18	16.52	17.27	17.63	19.07	18.92	19.27	20.01	20.38	21.81
	8H	16.22	16.52	17.32	17.62	19.07	19.07	19.37	20.16	20.46	21.91
	12H	16.20	16.47	17.30	17.56	19.05	19.16	19.42	20.26	20.51	22.00
12H	4H	15.92	16.30	17.00	17.38	18.82	18.46	18.83	19.54	19.92	21.36
	6H	16.24	16.54	17.33	17.63	19.08	18.92	19.22	20.01	20.31	21.76
	8H	16.30	16.57	17.40	17.66	19.15	19.07	19.34	20.17	20.43	21.92