

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: P934950

Luminaire Tested: SQ4-FA-075U-125D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934950
REPORT IS A COMBINATION OF REPORTS P933718 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

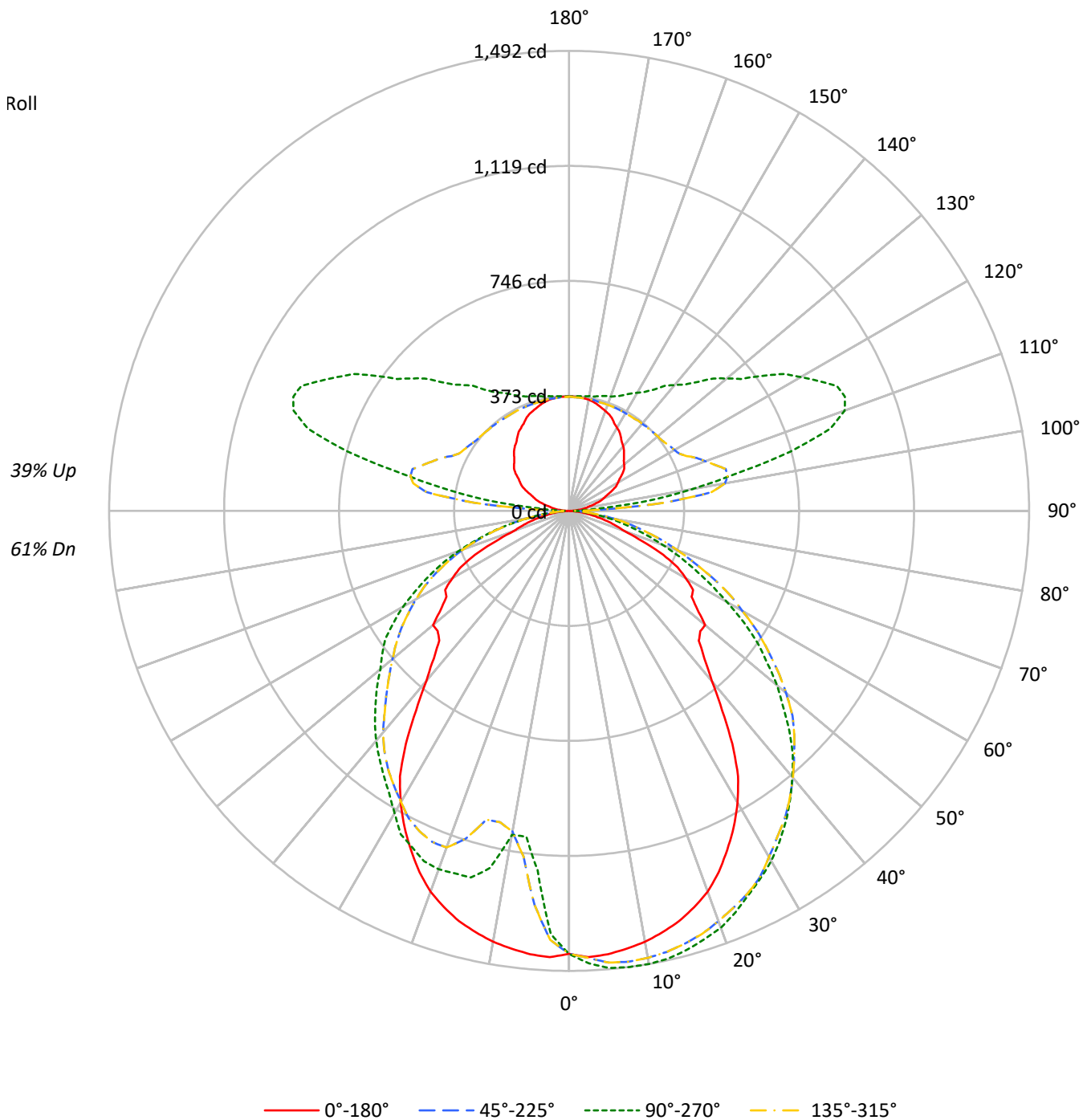
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6130.1 lumens
Efficiency: N/A
Efficacy: 98.9 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: Semi-Direct

Input Watts (W): 62
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	56	56	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	47	47	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	40	40	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	35	35	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	30	30	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	26	26	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	23	23	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	21	21	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	19	19	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	17	17	17	15

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	2.1
10°-20°	368.1	6.0
20°-30°	569.1	9.3
30°-40°	679.4	11.1
40°-50°	683.3	11.1
50°-60°	594.6	9.7
60°-70°	421.6	6.9
70°-80°	223.0	3.6
80°-90°	57.0	0.9
90°-100°	180.8	2.9
100°-110°	475.3	7.8
110°-120°	492.9	8.0
120°-130°	395.3	6.4
130°-140°	310.2	5.1
140°-150°	238.1	3.9
150°-160°	171.5	2.8
160°-170°	104.9	1.7
170°-180°	35.4	0.6
0°-30°	1066.9	17.4
0°-40°	1746.2	28.5
0°-60°	3024.2	49.3
0°-90°	3725.7	60.8
90°-120°	1149.0	18.7
90°-150°	2092.6	34.1
90°-180°	2404.0	39.2
0°-180°	6130.1	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°	2	10	2	10	2	3
95°	24	109	24	109	24	27
105°	86	744	86	744	86	91
115°	152	958	152	958	152	150
125°	212	763	212	763	212	188
135°	252	592	252	592	252	195
145°	292	480	292	480	292	183
155°	331	414	331	414	331	152
165°	357	385	357	385	357	101
175°	371	373	371	373	371	35
180°	371	371	371	371	371	



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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°	2.5	4.5	6.5	7.0	11.0	16.3	19.0	16.9	12.6	9.5	9.5
92.5°	10.0	26.9	43.8	48.0	67.5	93.5	106.6	93.4	67.1	47.3	45.4
95°	23.9	54.9	85.9	93.6	166.2	263.0	311.4	277.8	210.8	160.5	154.8
97.5°	41.4	68.7	96.0	102.8	223.9	385.3	466.0	444.8	402.5	370.7	359.8
100°	54.8	79.5	104.3	110.5	244.8	424.0	513.5	515.0	518.2	520.5	507.6
102.5°	66.2	89.4	112.4	118.2	254.5	436.2	527.0	554.0	608.0	648.4	637.3
105°	85.6	105.2	124.8	129.7	261.6	437.6	525.5	586.0	707.0	797.8	791.8
107.5°	105.5	123.8	142.1	146.6	263.0	418.0	495.6	580.0	748.8	875.4	876.9
110°	119.0	135.5	152.0	156.1	261.0	400.8	470.7	565.1	753.8	895.3	901.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	132.2	147.9	163.6	167.5	261.1	385.8	448.1	544.7	737.8	882.7	892.2
115°	152.1	166.5	181.1	184.7	263.5	368.4	420.9	514.0	700.1	839.6	852.8
117.5°	171.8	184.9	198.1	201.4	268.4	357.6	402.2	486.2	654.1	780.1	794.7
120°	183.2	195.6	208.0	211.1	272.3	354.0	394.8	471.5	625.0	740.0	754.3
122.5°	194.4	206.9	219.4	222.5	278.0	352.0	389.1	458.1	596.3	700.0	714.0
125°	211.6	223.0	234.4	237.2	285.8	350.5	382.9	441.6	559.0	647.0	659.9
127.5°	225.6	237.0	248.5	251.4	293.5	349.6	377.7	428.1	528.9	604.4	615.3
130°	233.0	245.4	257.8	260.9	299.1	350.1	375.6	420.5	510.2	577.5	587.6
132.5°	240.7	253.1	265.5	268.6	303.7	350.5	373.9	414.0	494.4	554.6	563.6
135°	252.1	263.4	274.7	277.5	308.7	350.2	370.9	404.6	471.8	522.3	530.1
137.5°	263.9	275.0	286.2	289.0	316.1	352.4	370.4	398.9	455.7	498.3	504.7
140°	273.6	283.9	294.1	296.7	320.7	352.7	368.7	393.2	442.3	479.2	485.1
142.5°	281.0	290.5	300.0	302.4	324.5	354.0	368.7	390.3	433.4	465.7	470.9
145°	292.5	300.8	309.1	311.2	329.5	354.0	366.2	383.8	419.1	445.6	449.4
147.5°	303.9	312.0	320.1	322.1	336.8	356.4	366.2	380.1	407.8	428.6	431.9
150°	311.4	318.7	326.0	327.9	340.6	357.7	366.2	377.9	401.3	418.9	421.5
152.5°	319.1	324.7	330.2	331.6	343.1	358.5	366.2	376.2	396.2	411.2	413.1
155°	330.6	334.7	338.7	339.7	348.6	360.3	366.2	374.1	390.0	402.0	403.3
157.5°	339.0	343.0	347.1	348.0	354.0	362.2	366.2	372.4	384.7	394.0	394.9
160°	344.7	347.9	350.9	351.7	356.5	363.0	366.2	371.5	382.1	390.1	390.6
162.5°	350.5	352.8	355.2	355.7	359.2	363.8	366.2	370.7	379.6	386.3	386.8
165°	356.7	358.8	360.9	361.4	363.0	365.1	366.2	369.4	375.8	380.6	381.2
167.5°	362.4	363.4	364.4	364.6	366.0	367.8	368.7	370.7	375.0	378.1	378.4
170°	366.2	367.1	368.2	368.4	368.5	368.6	368.7	370.7	375.0	378.1	378.1
172.5°	368.2	368.4	368.6	368.7	368.7	368.7	368.7	370.3	373.6	376.1	376.0
175°	370.9	370.9	370.9	370.9	370.2	369.1	368.7	369.7	371.8	373.4	373.4
177.5°	370.9	370.9	370.9	370.9	370.3	369.5	369.1	369.9	371.6	372.9	372.7
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



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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°	9.5	9.5	9.5	9.5	9.5	12.6	16.9	19.0	16.3	11.0	7.0
92.5°	37.9	30.4	37.9	45.4	47.3	67.1	93.4	106.6	93.5	67.5	48.0
95°	132.1	109.3	132.1	154.8	160.5	210.8	277.8	311.4	263.0	166.2	93.6
97.5°	316.5	273.1	316.5	359.8	370.7	402.5	444.8	466.0	385.3	223.9	102.8
100°	455.9	404.2	455.9	507.6	520.5	518.2	515.0	513.5	424.0	244.8	110.5
102.5°	593.1	548.9	593.1	637.3	648.4	608.0	554.0	527.0	436.2	254.5	118.2
105°	768.1	744.3	768.1	791.8	797.8	707.0	586.0	525.5	437.6	261.6	129.7
107.5°	882.7	888.4	882.7	876.9	875.4	748.8	580.0	495.6	418.0	263.0	146.6
110°	926.3	951.2	926.3	901.5	895.3	753.8	565.1	470.7	400.8	261.0	156.1



TEST NUMBER: P934950

CATALOG NUMBER: SQ4-FA-075U-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°	930.3	968.3	930.3	892.2	882.7	737.8	544.7	448.1	385.8	261.1	167.5
115°	905.6	958.4	905.6	852.8	839.6	700.1	514.0	420.9	368.4	263.5	184.7
117.5°	853.3	911.8	853.3	794.7	780.1	654.1	486.2	402.2	357.6	268.4	201.4
120°	811.1	868.0	811.1	754.3	740.0	625.0	471.5	394.8	354.0	272.3	211.1
122.5°	770.1	826.2	770.1	714.0	700.0	596.3	458.1	389.1	352.0	278.0	222.5
125°	711.5	763.2	711.5	659.9	647.0	559.0	441.6	382.9	350.5	285.8	237.2
127.5°	658.9	702.5	658.9	615.3	604.4	528.9	428.1	377.7	349.6	293.5	251.4
130°	627.9	668.1	627.9	587.6	577.5	510.2	420.5	375.6	350.1	299.1	260.9
132.5°	599.7	635.7	599.7	563.6	554.6	494.4	414.0	373.9	350.5	303.7	268.6
135°	561.1	592.2	561.1	530.1	522.3	471.8	404.6	370.9	350.2	308.7	277.5
137.5°	530.1	555.6	530.1	504.7	498.3	455.7	398.9	370.4	352.4	316.1	289.0
140°	508.9	532.7	508.9	485.1	479.2	442.3	393.2	368.7	352.7	320.7	296.7
142.5°	491.3	511.8	491.3	470.9	465.7	433.4	390.3	368.7	354.0	324.5	302.4
145°	464.9	480.4	464.9	449.4	445.6	419.1	383.8	366.2	354.0	329.5	311.2
147.5°	444.7	457.5	444.7	431.9	428.6	407.8	380.1	366.2	356.4	336.8	322.1
150°	431.9	442.4	431.9	421.5	418.9	401.3	377.9	366.2	357.7	340.6	327.9
152.5°	421.0	428.9	421.0	413.1	411.2	396.2	376.2	366.2	358.5	343.1	331.6
155°	408.5	413.7	408.5	403.3	402.0	390.0	374.1	366.2	360.3	348.6	339.7
157.5°	398.6	402.2	398.6	394.9	394.0	384.7	372.4	366.2	362.2	354.0	348.0
160°	392.7	394.8	392.7	390.6	390.1	382.1	371.5	366.2	363.0	356.5	351.7
162.5°	388.8	390.8	388.8	386.8	386.3	379.6	370.7	366.2	363.8	359.2	355.7
165°	383.3	385.4	383.3	381.2	380.6	375.8	369.4	366.2	365.1	363.0	361.4
167.5°	379.3	380.1	379.3	378.4	378.1	375.0	370.7	368.7	367.8	366.0	364.6
170°	378.1	378.1	378.1	378.1	378.1	375.0	370.7	368.7	368.6	368.5	368.4
172.5°	375.2	374.4	375.2	376.0	376.1	373.6	370.3	368.7	368.7	368.7	368.7
175°	373.4	373.4	373.4	373.4	373.4	371.8	369.7	368.7	369.1	370.2	370.9
177.5°	371.8	370.9	371.8	372.7	372.9	371.6	369.9	369.1	369.5	370.3	370.9
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



TEST NUMBER: P934950
 CATALOG NUMBER: SQ4-FA-075U-125D-930-1D-UNV-STD-W-4

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°	6.5	4.5	2.5	4.5	6.5	7.0	11.0	16.3	19.0	16.9	12.6
92.5°	43.8	26.9	10.0	26.9	43.8	48.0	67.5	93.5	106.6	93.4	67.1
95°	85.9	54.9	23.9	54.9	85.9	93.6	166.2	263.0	311.4	277.8	210.8
97.5°	96.0	68.7	41.4	68.7	96.0	102.8	223.9	385.3	466.0	444.8	402.5
100°	104.3	79.5	54.8	79.5	104.3	110.5	244.8	424.0	513.5	515.0	518.2
102.5°	112.4	89.4	66.2	89.4	112.4	118.2	254.5	436.2	527.0	554.0	608.0
105°	124.8	105.2	85.6	105.2	124.8	129.7	261.6	437.6	525.5	586.0	707.0
107.5°	142.1	123.8	105.5	123.8	142.1	146.6	263.0	418.0	495.6	580.0	748.8
110°	152.0	135.5	119.0	135.5	152.0	156.1	261.0	400.8	470.7	565.1	753.8



TEST NUMBER: P934950

CATALOG NUMBER: SQ4-FA-075U-125D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	163.6	147.9	132.2	147.9	163.6	167.5	261.1	385.8	448.1	544.7	737.8
115°	181.1	166.5	152.1	166.5	181.1	184.7	263.5	368.4	420.9	514.0	700.1
117.5°	198.1	184.9	171.8	184.9	198.1	201.4	268.4	357.6	402.2	486.2	654.1
120°	208.0	195.6	183.2	195.6	208.0	211.1	272.3	354.0	394.8	471.5	625.0
122.5°	219.4	206.9	194.4	206.9	219.4	222.5	278.0	352.0	389.1	458.1	596.3
125°	234.4	223.0	211.6	223.0	234.4	237.2	285.8	350.5	382.9	441.6	559.0
127.5°	248.5	237.0	225.6	237.0	248.5	251.4	293.5	349.6	377.7	428.1	528.9
130°	257.8	245.4	233.0	245.4	257.8	260.9	299.1	350.1	375.6	420.5	510.2
132.5°	265.5	253.1	240.7	253.1	265.5	268.6	303.7	350.5	373.9	414.0	494.4
135°	274.7	263.4	252.1	263.4	274.7	277.5	308.7	350.2	370.9	404.6	471.8
137.5°	286.2	275.0	263.9	275.0	286.2	289.0	316.1	352.4	370.4	398.9	455.7
140°	294.1	283.9	273.6	283.9	294.1	296.7	320.7	352.7	368.7	393.2	442.3
142.5°	300.0	290.5	281.0	290.5	300.0	302.4	324.5	354.0	368.7	390.3	433.4
145°	309.1	300.8	292.5	300.8	309.1	311.2	329.5	354.0	366.2	383.8	419.1
147.5°	320.1	312.0	303.9	312.0	320.1	322.1	336.8	356.4	366.2	380.1	407.8
150°	326.0	318.7	311.4	318.7	326.0	327.9	340.6	357.7	366.2	377.9	401.3
152.5°	330.2	324.7	319.1	324.7	330.2	331.6	343.1	358.5	366.2	376.2	396.2
155°	338.7	334.7	330.6	334.7	338.7	339.7	348.6	360.3	366.2	374.1	390.0
157.5°	347.1	343.0	339.0	343.0	347.1	348.0	354.0	362.2	366.2	372.4	384.7
160°	350.9	347.9	344.7	347.9	350.9	351.7	356.5	363.0	366.2	371.5	382.1
162.5°	355.2	352.8	350.5	352.8	355.2	355.7	359.2	363.8	366.2	370.7	379.6
165°	360.9	358.8	356.7	358.8	360.9	361.4	363.0	365.1	366.2	369.4	375.8
167.5°	364.4	363.4	362.4	363.4	364.4	364.6	366.0	367.8	368.7	370.7	375.0
170°	368.2	367.1	366.2	367.1	368.2	368.4	368.5	368.6	368.7	370.7	375.0
172.5°	368.6	368.4	368.2	368.4	368.6	368.7	368.7	368.7	368.7	370.3	373.6
175°	370.9	370.9	370.9	370.9	370.9	370.9	370.2	369.1	368.7	369.7	371.8
177.5°	370.9	370.9	370.9	370.9	370.9	370.9	370.3	369.5	369.1	369.9	371.6
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



TEST NUMBER: P934950
 CATALOG NUMBER: SQ4-FA-075U-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°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	12.6	16.9	19.0	16.3
92.5°	47.3	45.4	37.9	30.4	37.9	45.4	47.3	67.1	93.4	106.6	93.5
95°	160.5	154.8	132.1	109.3	132.1	154.8	160.5	210.8	277.8	311.4	263.0
97.5°	370.7	359.8	316.5	273.1	316.5	359.8	370.7	402.5	444.8	466.0	385.3
100°	520.5	507.6	455.9	404.2	455.9	507.6	520.5	518.2	515.0	513.5	424.0
102.5°	648.4	637.3	593.1	548.9	593.1	637.3	648.4	608.0	554.0	527.0	436.2
105°	797.8	791.8	768.1	744.3	768.1	791.8	797.8	707.0	586.0	525.5	437.6
107.5°	875.4	876.9	882.7	888.4	882.7	876.9	875.4	748.8	580.0	495.6	418.0
110°	895.3	901.5	926.3	951.2	926.3	901.5	895.3	753.8	565.1	470.7	400.8



TEST NUMBER: P934950

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	882.7	892.2	930.3	968.3	930.3	892.2	882.7	737.8	544.7	448.1	385.8
115°	839.6	852.8	905.6	958.4	905.6	852.8	839.6	700.1	514.0	420.9	368.4
117.5°	780.1	794.7	853.3	911.8	853.3	794.7	780.1	654.1	486.2	402.2	357.6
120°	740.0	754.3	811.1	868.0	811.1	754.3	740.0	625.0	471.5	394.8	354.0
122.5°	700.0	714.0	770.1	826.2	770.1	714.0	700.0	596.3	458.1	389.1	352.0
125°	647.0	659.9	711.5	763.2	711.5	659.9	647.0	559.0	441.6	382.9	350.5
127.5°	604.4	615.3	658.9	702.5	658.9	615.3	604.4	528.9	428.1	377.7	349.6
130°	577.5	587.6	627.9	668.1	627.9	587.6	577.5	510.2	420.5	375.6	350.1
132.5°	554.6	563.6	599.7	635.7	599.7	563.6	554.6	494.4	414.0	373.9	350.5
135°	522.3	530.1	561.1	592.2	561.1	530.1	522.3	471.8	404.6	370.9	350.2
137.5°	498.3	504.7	530.1	555.6	530.1	504.7	498.3	455.7	398.9	370.4	352.4
140°	479.2	485.1	508.9	532.7	508.9	485.1	479.2	442.3	393.2	368.7	352.7
142.5°	465.7	470.9	491.3	511.8	491.3	470.9	465.7	433.4	390.3	368.7	354.0
145°	445.6	449.4	464.9	480.4	464.9	449.4	445.6	419.1	383.8	366.2	354.0
147.5°	428.6	431.9	444.7	457.5	444.7	431.9	428.6	407.8	380.1	366.2	356.4
150°	418.9	421.5	431.9	442.4	431.9	421.5	418.9	401.3	377.9	366.2	357.7
152.5°	411.2	413.1	421.0	428.9	421.0	413.1	411.2	396.2	376.2	366.2	358.5
155°	402.0	403.3	408.5	413.7	408.5	403.3	402.0	390.0	374.1	366.2	360.3
157.5°	394.0	394.9	398.6	402.2	398.6	394.9	394.0	384.7	372.4	366.2	362.2
160°	390.1	390.6	392.7	394.8	392.7	390.6	390.1	382.1	371.5	366.2	363.0
162.5°	386.3	386.8	388.8	390.8	388.8	386.8	386.3	379.6	370.7	366.2	363.8
165°	380.6	381.2	383.3	385.4	383.3	381.2	380.6	375.8	369.4	366.2	365.1
167.5°	378.1	378.4	379.3	380.1	379.3	378.4	378.1	375.0	370.7	368.7	367.8
170°	378.1	378.1	378.1	378.1	378.1	378.1	378.1	375.0	370.7	368.7	368.6
172.5°	376.1	376.0	375.2	374.4	375.2	376.0	376.1	373.6	370.3	368.7	368.7
175°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	371.8	369.7	368.7	369.1
177.5°	372.9	372.7	371.8	370.9	371.8	372.7	372.9	371.6	369.9	369.1	369.5
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



TEST NUMBER: P934950

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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°	11.0	7.0	6.5	4.5	2.5
92.5°	67.5	48.0	43.8	26.9	10.0
95°	166.2	93.6	85.9	54.9	23.9
97.5°	223.9	102.8	96.0	68.7	41.4
100°	244.8	110.5	104.3	79.5	54.8
102.5°	254.5	118.2	112.4	89.4	66.2
105°	261.6	129.7	124.8	105.2	85.6
107.5°	263.0	146.6	142.1	123.8	105.5
110°	261.0	156.1	152.0	135.5	119.0



TEST NUMBER: P934950

CATALOG NUMBER: SQ4-FA-075U-125D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	261.1	167.5	163.6	147.9	132.2
115°	263.5	184.7	181.1	166.5	152.1
117.5°	268.4	201.4	198.1	184.9	171.8
120°	272.3	211.1	208.0	195.6	183.2
122.5°	278.0	222.5	219.4	206.9	194.4
125°	285.8	237.2	234.4	223.0	211.6
127.5°	293.5	251.4	248.5	237.0	225.6
130°	299.1	260.9	257.8	245.4	233.0
132.5°	303.7	268.6	265.5	253.1	240.7
135°	308.7	277.5	274.7	263.4	252.1
137.5°	316.1	289.0	286.2	275.0	263.9
140°	320.7	296.7	294.1	283.9	273.6
142.5°	324.5	302.4	300.0	290.5	281.0
145°	329.5	311.2	309.1	300.8	292.5
147.5°	336.8	322.1	320.1	312.0	303.9
150°	340.6	327.9	326.0	318.7	311.4
152.5°	343.1	331.6	330.2	324.7	319.1
155°	348.6	339.7	338.7	334.7	330.6
157.5°	354.0	348.0	347.1	343.0	339.0
160°	356.5	351.7	350.9	347.9	344.7
162.5°	359.2	355.7	355.2	352.8	350.5
165°	363.0	361.4	360.9	358.8	356.7
167.5°	366.0	364.6	364.4	363.4	362.4
170°	368.5	368.4	368.2	367.1	366.2
172.5°	368.7	368.7	368.6	368.4	368.2
175°	370.2	370.9	370.9	370.9	370.9
177.5°	370.3	370.9	370.9	370.9	370.9
180°	370.9	370.9	370.9	370.9	370.9



TEST NUMBER: P934950
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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	14.73	15.70	15.59	16.58	17.69	17.53	18.49	18.39	19.38	20.48
	3H	15.22	16.08	16.09	16.97	18.11	18.87	19.74	19.74	20.63	21.76
	4H	15.41	16.23	16.30	17.13	18.27	19.31	20.13	20.20	21.03	22.18
	6H	15.54	16.29	16.44	17.20	18.35	19.60	20.35	20.50	21.26	22.41
	8H	15.54	16.26	16.45	17.18	18.34	19.67	20.39	20.58	21.31	22.47
	12H	15.52	16.20	16.43	17.12	18.30	19.71	20.39	20.62	21.31	22.49
4H	2H	15.77	16.59	16.66	17.48	18.63	17.95	18.77	18.84	19.67	20.81
	3H	16.81	17.49	17.71	18.42	19.58	19.46	20.14	20.36	21.07	22.23
	4H	17.09	17.71	18.00	18.63	19.82	19.98	20.61	20.90	21.53	22.72
	6H	17.22	17.75	18.15	18.70	19.89	20.35	20.88	21.28	21.83	23.02
	8H	17.23	17.73	18.16	18.67	19.87	20.45	20.95	21.38	21.89	23.10
	12H	17.20	17.65	18.15	18.61	19.82	20.51	20.96	21.46	21.92	23.13
8H	4H	17.54	18.04	18.47	18.99	20.19	20.12	20.62	21.05	21.56	22.76
	6H	17.81	18.22	18.77	19.21	20.41	20.55	20.97	21.51	21.95	23.15
	8H	17.85	18.22	18.82	19.19	20.41	20.70	21.07	21.67	22.04	23.26
	12H	17.84	18.16	18.81	19.13	20.40	20.80	21.12	21.77	22.09	23.35
12H	4H	17.55	18.01	18.50	18.96	20.17	20.09	20.54	21.04	21.50	22.71
	6H	17.87	18.24	18.84	19.21	20.43	20.55	20.92	21.52	21.89	23.11
	8H	17.94	18.26	18.91	19.23	20.50	20.71	21.03	21.68	22.00	23.27