

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: P934922

Luminaire Tested: SQ4-FA-075U-125D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934922
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-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

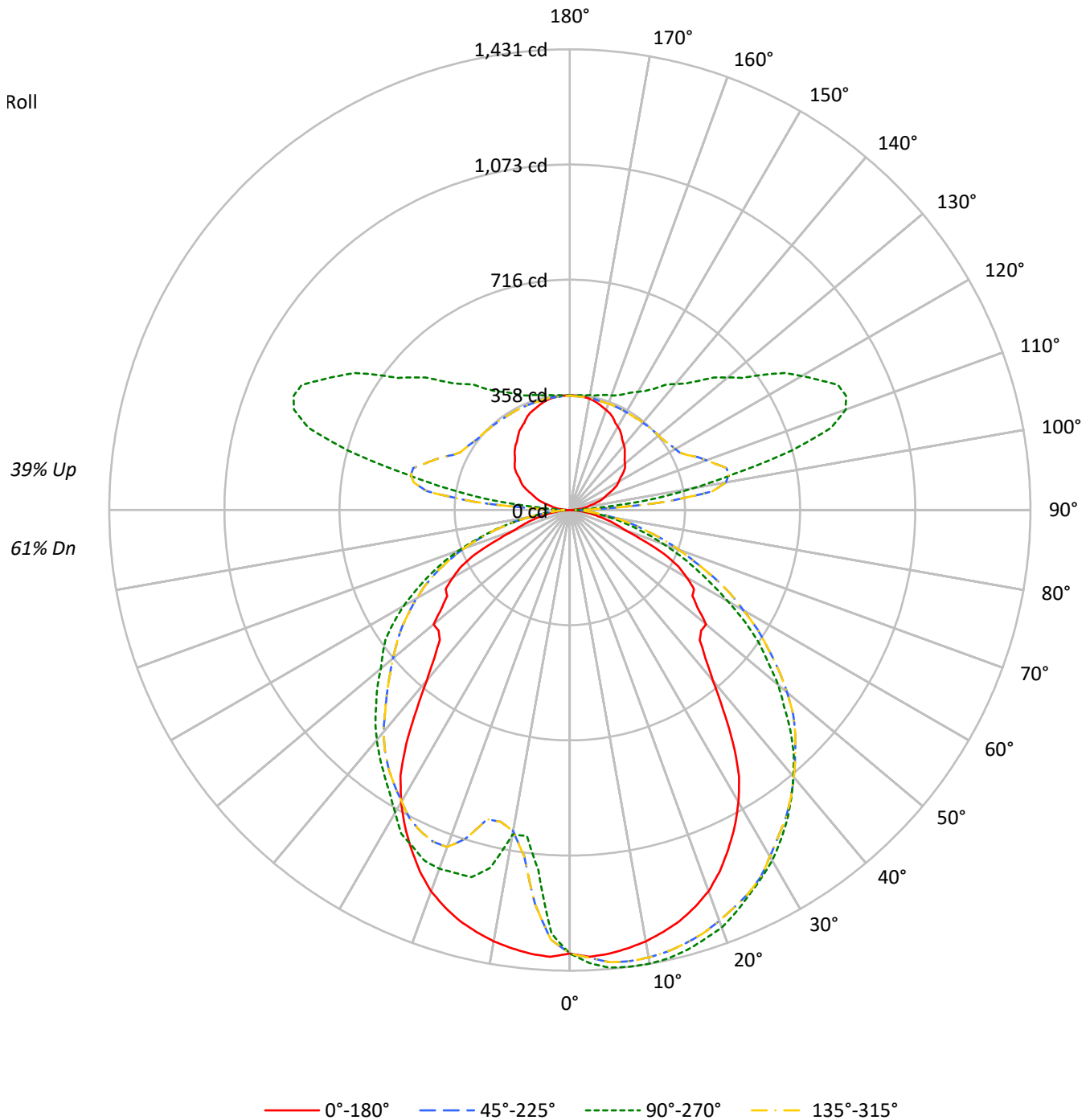
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5878.2 lumens
Efficiency: N/A
Efficacy: 94.8 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°	12781	12781	12781	12781
5°	12862	12902	12862	10145
10°	12762	12709	12762	9086
15°	12609	12434	12609	10382
20°	12331	12108	12331	10404
25°	11776	11631	11776	10183
30°	11066	11237	11066	9700
35°	9850	10737	9850	9168
40°	8193	10148	8193	8765
45°	7307	9460	7307	8303
50°	7745	8639	7745	7839
55°	7266	7755	7266	7572
60°	7464	6587	7464	6934
65°	6735	5445	6735	6087
70°	4631	4340	4631	5100
75°	4017	3208	4017	3841
80°	3173	2121	3173	2309
85°	1731	1123	1731	954

MAXIMUM LUMINANCE 45°-90°:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	2.1
10°-20°	353.0	6.0
20°-30°	545.7	9.3
30°-40°	651.4	11.1
40°-50°	655.3	11.1
50°-60°	570.2	9.7
60°-70°	404.2	6.9
70°-80°	213.9	3.6
80°-90°	54.6	0.9
90°-100°	173.4	2.9
100°-110°	455.8	7.8
110°-120°	472.6	8.0
120°-130°	379.1	6.4
130°-140°	297.5	5.1
140°-150°	228.3	3.9
150°-160°	164.4	2.8
160°-170°	100.6	1.7
170°-180°	34.0	0.6
0°-30°	1023.0	17.4
0°-40°	1674.5	28.5
0°-60°	2899.9	49.3
0°-90°	3572.6	60.8
90°-120°	1101.7	18.7
90°-150°	2006.6	34.1
90°-180°	2306.0	39.2
0°-180°	5878.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1377	1377	1377	1377	1377	
5°	1384	1427	1384	1122	1384	131
15°	1321	1414	1321	1181	1321	372
25°	1164	1319	1164	1154	1164	534
35°	885	1177	885	1005	885	547
45°	571	970	571	851	571	457
55°	465	715	465	698	465	427
65°	323	431	323	482	323	309
75°	122	205	122	245	122	129
85°	21	52	21	44	21	28
90°	2	9	2	9	2	3
95°	23	105	23	105	23	25
105°	82	714	82	714	82	87
115°	146	919	146	919	146	144
125°	203	732	203	732	203	180
135°	242	568	242	568	242	187
145°	280	461	280	461	280	176
155°	317	397	317	397	317	146
165°	342	370	342	370	342	97
175°	356	358	356	358	356	34
180°	356	356	356	356	356	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1389.1	1389.1	1396.9	1399.6	1399.6	1395.6	1391.7	1395.6	1407.3	1411.3	1409.9
5°	1383.8	1394.3	1408.6	1411.3	1413.9	1412.6	1409.9	1412.6	1425.6	1428.2	1429.5
7.5°	1373.4	1393.0	1411.3	1415.2	1419.0	1415.2	1413.9	1416.5	1429.5	1432.1	1432.1
10°	1360.4	1387.8	1408.6	1411.3	1415.2	1411.3	1411.3	1416.5	1429.5	1432.1	1433.4
12.5°	1342.2	1380.0	1399.6	1402.1	1407.3	1406.0	1404.7	1409.9	1423.0	1425.6	1425.6
15°	1321.3	1365.7	1383.8	1386.5	1395.6	1393.0	1393.0	1398.2	1412.6	1416.5	1415.2
17.5°	1292.7	1347.4	1368.2	1372.1	1378.7	1377.4	1378.7	1383.8	1396.9	1399.6	1400.8
20°	1260.1	1322.6	1347.4	1351.3	1357.8	1357.8	1357.8	1364.4	1377.4	1382.6	1382.6
22.5°	1215.8	1296.6	1322.6	1325.2	1333.0	1333.0	1335.6	1344.8	1356.5	1357.8	1357.8
25°	1163.6	1267.9	1290.1	1297.9	1305.7	1309.6	1313.5	1318.7	1322.6	1321.3	1322.6
27.5°	1109.0	1231.4	1260.1	1265.3	1275.7	1279.7	1284.8	1286.1	1287.4	1291.4	1288.7
30°	1047.7	1180.6	1223.6	1228.8	1245.8	1248.3	1243.2	1245.8	1252.3	1254.9	1257.5
32.5°	978.6	1105.0	1185.8	1197.5	1213.2	1205.4	1204.0	1208.0	1218.4	1218.4	1221.0
35°	884.8	1046.4	1150.6	1161.1	1172.8	1163.6	1168.9	1170.2	1176.7	1180.6	1179.3
37.5°	781.9	995.5	1114.1	1122.0	1131.1	1119.3	1127.2	1131.1	1136.3	1133.7	1133.7
40°	690.6	916.1	1071.1	1076.4	1084.2	1075.1	1082.9	1085.5	1088.1	1085.5	1084.2
42.5°	622.9	828.8	1025.6	1032.0	1026.8	1033.3	1036.0	1041.2	1037.3	1032.0	1032.0
45°	570.7	805.3	976.0	983.8	976.0	986.4	990.4	990.4	978.6	976.0	974.7
47.5°	553.8	758.4	926.5	926.5	922.6	935.6	942.1	933.0	921.3	917.4	917.4
50°	552.5	706.2	858.7	853.5	871.8	887.4	880.9	871.8	862.6	848.3	848.3
52.5°	501.7	642.4	771.5	790.9	819.7	828.8	818.4	809.2	793.6	787.1	781.9
55°	465.2	576.0	691.9	731.0	761.0	772.7	753.2	744.1	720.6	716.7	714.1
57.5°	457.4	479.6	619.0	668.5	704.9	703.7	691.9	675.0	655.4	651.6	650.3
60°	419.6	346.7	540.8	599.4	637.2	633.3	622.9	607.2	589.0	586.4	583.8
62.5°	380.5	251.5	452.1	518.6	572.0	570.7	561.6	538.2	525.1	518.6	513.4
65°	323.2	211.1	321.9	431.4	508.2	510.8	491.3	474.3	460.0	452.1	450.8
67.5°	246.2	172.0	217.6	359.7	447.0	444.4	419.6	411.8	393.5	389.6	381.8
70°	182.4	114.7	151.2	291.9	387.0	380.5	361.0	351.8	334.9	325.8	320.6
72.5°	151.2	92.6	110.7	226.8	325.8	317.9	301.0	290.6	276.3	268.4	263.2
75°	122.5	97.7	84.7	168.1	264.5	259.3	243.7	233.2	221.5	211.1	212.4
77.5°	89.9	91.2	67.8	123.8	209.8	202.0	192.9	179.8	174.6	164.2	164.2
80°	67.8	71.7	50.8	84.7	151.2	151.2	143.4	134.2	125.1	119.9	119.9
82.5°	45.6	45.6	37.8	53.4	102.9	99.0	93.8	91.2	86.0	83.4	83.4
85°	20.9	26.0	23.5	32.6	56.1	58.7	58.7	56.1	54.7	52.1	53.4
87.5°	6.5	11.7	14.3	18.2	28.6	30.0	31.3	31.3	31.3	32.6	32.6
90°	2.4	4.3	6.2	6.7	10.5	15.6	18.2	16.2	12.1	9.1	9.1
92.5°	9.5	25.8	42.0	46.0	64.8	89.7	102.2	89.6	64.3	45.4	43.6
95°	22.9	52.7	82.4	89.8	159.4	252.2	298.6	266.4	202.1	153.9	148.5
97.5°	39.7	65.8	92.0	98.6	214.7	369.4	446.8	426.5	385.9	355.4	345.0
100°	52.5	76.2	100.0	106.0	234.8	406.6	492.4	493.9	496.9	499.1	486.7
102.5°	63.5	85.7	107.8	113.3	244.0	418.3	505.4	531.2	583.0	621.8	611.1
105°	82.1	100.9	119.7	124.4	250.9	419.6	503.9	561.9	678.0	765.0	759.3
107.5°	101.2	118.7	136.2	140.6	252.2	400.9	475.2	556.2	718.0	839.5	840.8
110°	114.1	129.9	145.8	149.7	250.2	384.3	451.4	541.8	722.8	858.6	864.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	126.7	141.8	156.8	160.6	250.3	369.9	429.7	522.3	707.5	846.4	855.5
115°	145.8	159.7	173.6	177.1	252.6	353.3	403.6	492.9	671.3	805.1	817.7
117.5°	164.7	177.3	190.0	193.1	257.3	342.9	385.7	466.2	627.2	748.1	762.1
120°	175.7	187.6	199.4	202.4	261.1	339.4	378.5	452.1	599.3	709.6	723.3
122.5°	186.4	198.4	210.4	213.4	266.6	337.6	373.1	439.3	571.8	671.2	684.7
125°	202.9	213.8	224.8	227.5	274.0	336.1	367.1	423.4	536.0	620.4	632.8
127.5°	216.3	227.3	238.3	241.1	281.4	335.3	362.1	410.5	507.1	579.6	590.1
130°	223.5	235.3	247.2	250.2	286.8	335.7	360.2	403.2	489.3	553.8	563.4
132.5°	230.8	242.7	254.6	257.6	291.2	336.1	358.5	397.0	474.1	531.8	540.5
135°	241.8	252.6	263.4	266.1	296.0	335.8	355.7	387.9	452.5	500.8	508.3
137.5°	253.0	263.7	274.4	277.1	303.1	337.9	355.2	382.5	437.0	477.9	483.9
140°	262.3	272.2	282.1	284.5	307.5	338.2	353.5	377.1	424.1	459.5	465.2
142.5°	269.5	278.6	287.7	290.0	311.2	339.4	353.5	374.2	415.6	446.6	451.5
145°	280.4	288.4	296.4	298.4	315.9	339.4	351.1	368.1	401.9	427.3	431.0
147.5°	291.4	299.1	306.9	308.8	322.9	341.7	351.1	364.4	391.1	411.0	414.1
150°	298.6	305.6	312.6	314.4	326.6	343.0	351.1	362.4	384.8	401.7	404.2
152.5°	306.0	311.3	316.6	317.9	329.0	343.7	351.1	360.7	379.9	394.3	396.2
155°	317.0	320.9	324.8	325.8	334.3	345.5	351.1	358.7	374.0	385.5	386.7
157.5°	325.1	328.9	332.8	333.7	339.5	347.3	351.1	357.0	368.9	377.8	378.7
160°	330.6	333.6	336.5	337.3	341.9	348.0	351.1	356.2	366.4	374.1	374.5
162.5°	336.1	338.3	340.6	341.1	344.4	348.9	351.1	355.4	364.0	370.4	370.9
165°	342.0	344.0	346.0	346.6	348.1	350.1	351.1	354.2	360.4	365.0	365.5
167.5°	347.5	348.4	349.4	349.7	351.0	352.7	353.5	355.5	359.6	362.6	362.8
170°	351.1	352.0	353.0	353.3	353.4	353.4	353.5	355.5	359.6	362.6	362.6
172.5°	353.0	353.3	353.4	353.5	353.5	353.5	353.5	355.1	358.3	360.7	360.5
175°	355.7	355.7	355.7	355.7	355.0	354.0	353.5	354.5	356.5	358.0	358.0
177.5°	355.7	355.7	355.7	355.7	355.1	354.4	354.0	354.7	356.4	357.6	357.4
180°	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1412.6	1408.6	1412.6	1409.9	1411.3	1407.3	1395.6	1391.7	1395.6	1399.6	1399.6
5°	1429.5	1426.9	1429.5	1429.5	1428.2	1425.6	1412.6	1409.9	1412.6	1413.9	1411.3
7.5°	1434.7	1430.8	1434.7	1432.1	1432.1	1429.5	1416.5	1413.9	1415.2	1419.0	1415.2
10°	1434.7	1430.8	1434.7	1433.4	1432.1	1429.5	1416.5	1411.3	1411.3	1415.2	1411.3
12.5°	1428.2	1425.6	1428.2	1425.6	1425.6	1423.0	1409.9	1404.7	1406.0	1407.3	1402.1
15°	1417.7	1413.9	1417.7	1415.2	1416.5	1412.6	1398.2	1393.0	1393.0	1395.6	1386.5
17.5°	1402.1	1396.9	1402.1	1400.8	1399.6	1396.9	1383.8	1378.7	1377.4	1378.7	1372.1
20°	1383.8	1380.0	1383.8	1382.6	1382.6	1377.4	1364.4	1357.8	1357.8	1357.8	1351.3
22.5°	1355.2	1351.3	1355.2	1357.8	1357.8	1356.5	1344.8	1335.6	1333.0	1333.0	1325.2
25°	1322.6	1318.7	1322.6	1322.6	1321.3	1322.6	1318.7	1313.5	1309.6	1305.7	1297.9
27.5°	1291.4	1288.7	1291.4	1288.7	1291.4	1287.4	1286.1	1284.8	1279.7	1275.7	1265.3
30°	1260.1	1257.5	1260.1	1257.5	1254.9	1252.3	1245.8	1243.2	1248.3	1245.8	1228.8
32.5°	1221.0	1218.4	1221.0	1221.0	1218.4	1218.4	1208.0	1204.0	1205.4	1213.2	1197.5
35°	1180.6	1176.7	1180.6	1179.3	1180.6	1176.7	1170.2	1168.9	1163.6	1172.8	1161.1
37.5°	1133.7	1129.7	1133.7	1133.7	1133.7	1136.3	1131.1	1127.2	1119.3	1131.1	1122.0
40°	1085.5	1080.2	1085.5	1084.2	1085.5	1088.1	1085.5	1082.9	1075.1	1084.2	1076.4
42.5°	1030.7	1029.4	1030.7	1032.0	1032.0	1037.3	1041.2	1036.0	1033.3	1026.8	1032.0
45°	972.1	969.5	972.1	974.7	976.0	978.6	990.4	990.4	986.4	976.0	983.8
47.5°	909.5	903.1	909.5	917.4	917.4	921.3	933.0	942.1	935.6	922.6	926.5
50°	843.1	844.4	843.1	848.3	848.3	862.6	871.8	880.9	887.4	871.8	853.5
52.5°	777.9	776.6	777.9	781.9	787.1	793.6	809.2	818.4	828.8	819.7	790.9
55°	712.8	715.4	712.8	714.1	716.7	720.6	744.1	753.2	772.7	761.0	731.0
57.5°	647.6	643.7	647.6	650.3	651.6	655.4	675.0	691.9	703.7	704.9	668.5
60°	572.0	566.9	572.0	583.8	586.4	589.0	607.2	622.9	633.3	637.2	599.4
62.5°	505.6	496.5	505.6	513.4	518.6	525.1	538.2	561.6	570.7	572.0	518.6
65°	435.2	431.4	435.2	450.8	452.1	460.0	474.3	491.3	510.8	508.2	431.4
67.5°	371.4	371.4	371.4	381.8	389.6	393.5	411.8	419.6	444.4	447.0	359.7
70°	312.8	311.5	312.8	320.6	325.8	334.9	351.8	361.0	380.5	387.0	291.9
72.5°	256.7	255.4	256.7	263.2	268.4	276.3	290.6	301.0	317.9	325.8	226.8
75°	207.2	204.6	207.2	212.4	211.1	221.5	233.2	243.7	259.3	264.5	168.1
77.5°	159.0	159.0	159.0	164.2	164.2	174.6	179.8	192.9	202.0	209.8	123.8
80°	118.6	117.3	118.6	119.9	119.9	125.1	134.2	143.4	151.2	151.2	84.7
82.5°	83.4	80.8	83.4	83.4	83.4	86.0	91.2	93.8	99.0	102.9	53.4
85°	52.1	52.1	52.1	53.4	52.1	54.7	56.1	58.7	58.7	56.1	32.6
87.5°	33.9	32.6	33.9	32.6	32.6	31.3	31.3	31.3	30.0	28.6	18.2
90°	9.1	9.1	9.1	9.1	9.1	12.1	16.2	18.2	15.6	10.5	6.7
92.5°	36.3	29.1	36.3	43.6	45.4	64.3	89.6	102.2	89.7	64.8	46.0
95°	126.7	104.8	126.7	148.5	153.9	202.1	266.4	298.6	252.2	159.4	89.8
97.5°	303.5	261.9	303.5	345.0	355.4	385.9	426.5	446.8	369.4	214.7	98.6
100°	437.2	387.6	437.2	486.7	499.1	496.9	493.9	492.4	406.6	234.8	106.0
102.5°	568.7	526.3	568.7	611.1	621.8	583.0	531.2	505.4	418.3	244.0	113.3
105°	736.5	713.7	736.5	759.3	765.0	678.0	561.9	503.9	419.6	250.9	124.4
107.5°	846.4	851.9	846.4	840.8	839.5	718.0	556.2	475.2	400.9	252.2	140.6
110°	888.3	912.1	888.3	864.5	858.6	722.8	541.8	451.4	384.3	250.2	149.7



TEST NUMBER: P934922

CATALOG NUMBER: SQ4-FA-075U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	892.0	928.5	892.0	855.5	846.4	707.5	522.3	429.7	369.9	250.3	160.6
115°	868.4	919.0	868.4	817.7	805.1	671.3	492.9	403.6	353.3	252.6	177.1
117.5°	818.2	874.3	818.2	762.1	748.1	627.2	466.2	385.7	342.9	257.3	193.1
120°	777.8	832.3	777.8	723.3	709.6	599.3	452.1	378.5	339.4	261.1	202.4
122.5°	738.4	792.3	738.4	684.7	671.2	571.8	439.3	373.1	337.6	266.6	213.4
125°	682.3	731.8	682.3	632.8	620.4	536.0	423.4	367.1	336.1	274.0	227.5
127.5°	631.8	673.6	631.8	590.1	579.6	507.1	410.5	362.1	335.3	281.4	241.1
130°	602.1	640.6	602.1	563.4	553.8	489.3	403.2	360.2	335.7	286.8	250.2
132.5°	575.0	609.6	575.0	540.5	531.8	474.1	397.0	358.5	336.1	291.2	257.6
135°	538.1	567.9	538.1	508.3	500.8	452.5	387.9	355.7	335.8	296.0	266.1
137.5°	508.4	532.8	508.4	483.9	477.9	437.0	382.5	355.2	337.9	303.1	277.1
140°	488.0	510.8	488.0	465.2	459.5	424.1	377.1	353.5	338.2	307.5	284.5
142.5°	471.1	490.7	471.1	451.5	446.6	415.6	374.2	353.5	339.4	311.2	290.0
145°	445.8	460.7	445.8	431.0	427.3	401.9	368.1	351.1	339.4	315.9	298.4
147.5°	426.4	438.7	426.4	414.1	411.0	391.1	364.4	351.1	341.7	322.9	308.8
150°	414.2	424.2	414.2	404.2	401.7	384.8	362.4	351.1	343.0	326.6	314.4
152.5°	403.7	411.3	403.7	396.2	394.3	379.9	360.7	351.1	343.7	329.0	317.9
155°	391.7	396.7	391.7	386.7	385.5	374.0	358.7	351.1	345.5	334.3	325.8
157.5°	382.2	385.7	382.2	378.7	377.8	368.9	357.0	351.1	347.3	339.5	333.7
160°	376.5	378.5	376.5	374.5	374.1	366.4	356.2	351.1	348.0	341.9	337.3
162.5°	372.8	374.8	372.8	370.9	370.4	364.0	355.4	351.1	348.9	344.4	341.1
165°	367.5	369.5	367.5	365.5	365.0	360.4	354.2	351.1	350.1	348.1	346.6
167.5°	363.7	364.5	363.7	362.8	362.6	359.6	355.5	353.5	352.7	351.0	349.7
170°	362.6	362.6	362.6	362.6	362.6	359.6	355.5	353.5	353.4	353.4	353.3
172.5°	359.7	359.0	359.7	360.5	360.7	358.3	355.1	353.5	353.5	353.5	353.5
175°	358.0	358.0	358.0	358.0	358.0	356.5	354.5	353.5	354.0	355.0	355.7
177.5°	356.5	355.7	356.5	357.4	357.6	356.4	354.7	354.0	354.4	355.1	355.7
180°	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7



TEST NUMBER: P934922

CATALOG NUMBER: SQ4-FA-075U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1396.9	1389.1	1389.1	1376.1	1370.8	1366.9	1360.4	1340.9	1335.6	1330.5	1338.3
5°	1408.6	1394.3	1383.8	1360.4	1340.9	1333.0	1308.3	1261.4	1230.2	1206.7	1193.7
7.5°	1411.3	1393.0	1373.4	1337.0	1290.1	1269.2	1193.7	1107.6	1084.2	1063.3	1050.3
10°	1408.6	1387.8	1360.4	1305.7	1195.0	1158.5	1082.9	1026.8	1012.5	1008.6	1012.5
12.5°	1399.6	1380.0	1342.2	1250.9	1095.9	1071.1	1026.8	994.2	991.7	998.2	1033.3
15°	1383.8	1365.7	1321.3	1178.0	1041.2	1022.9	991.7	979.9	994.2	1039.9	1145.5
17.5°	1368.2	1347.4	1292.7	1106.3	999.5	986.4	964.3	987.8	1068.5	1129.7	1164.9
20°	1347.4	1322.6	1260.1	1054.2	969.5	957.8	947.3	1052.9	1114.1	1136.3	1155.8
22.5°	1322.6	1296.6	1215.8	1017.7	938.2	929.1	935.6	1089.4	1114.1	1129.7	1146.7
25°	1290.1	1267.9	1163.6	989.1	913.5	903.1	927.8	1085.5	1099.8	1103.7	1137.6
27.5°	1260.1	1231.4	1109.0	963.0	883.5	879.6	934.3	1068.5	1078.9	1082.9	1119.3
30°	1223.6	1180.6	1047.7	935.6	852.2	850.9	935.6	1047.7	1045.0	1055.5	1092.0
32.5°	1185.8	1105.0	978.6	901.7	822.3	821.0	926.5	1016.4	1013.8	1028.1	1055.5
35°	1150.6	1046.4	884.8	862.6	784.5	785.8	904.4	979.9	981.2	994.2	1011.2
37.5°	1114.1	995.5	781.9	819.7	748.0	748.0	874.3	946.0	943.4	947.3	970.8
40°	1071.1	916.1	690.6	763.6	714.1	710.2	837.9	909.5	900.4	899.1	931.7
42.5°	1025.6	828.8	622.9	689.3	675.0	669.8	793.6	865.2	848.3	852.2	893.9
45°	976.0	805.3	570.7	582.5	634.6	630.7	745.4	814.4	802.7	813.1	856.2
47.5°	926.5	758.4	553.8	483.5	591.6	590.3	691.9	764.9	758.4	768.8	814.4
50°	858.7	706.2	552.5	414.4	543.4	548.6	628.1	716.7	716.7	725.8	774.0
52.5°	771.5	642.4	501.7	375.3	487.3	503.0	572.0	675.0	677.6	686.8	729.7
55°	691.9	576.0	465.2	345.3	420.9	454.8	517.4	632.0	637.2	646.3	685.5
57.5°	619.0	479.6	457.4	310.2	359.7	392.2	469.1	590.3	592.9	600.8	638.5
60°	540.8	346.7	419.6	272.3	306.2	330.9	424.8	540.8	549.9	555.1	587.7
62.5°	452.1	251.5	380.5	246.2	280.1	285.4	388.3	493.9	505.6	509.5	529.1
65°	321.9	211.1	323.2	224.1	252.8	254.1	349.2	445.7	456.1	462.6	476.9
67.5°	217.6	172.0	246.2	203.3	231.9	233.2	311.5	389.6	403.9	409.2	418.3
70°	151.2	114.7	182.4	181.1	208.5	211.1	271.0	338.8	351.8	355.7	361.0
72.5°	110.7	92.6	151.2	162.9	183.7	186.3	229.3	281.4	294.5	298.4	301.0
75°	84.7	97.7	122.5	142.1	156.4	157.7	187.6	229.3	238.5	241.1	242.4
77.5°	67.8	91.2	89.9	114.7	127.7	125.1	147.2	177.3	185.0	185.0	185.0
80°	50.8	71.7	67.8	82.1	93.8	91.2	105.6	126.4	129.0	131.6	130.3
82.5°	37.8	45.6	45.6	52.1	62.5	59.9	70.4	82.1	82.1	82.1	84.7
85°	23.5	26.0	20.9	27.3	35.2	33.9	39.1	44.3	45.6	45.6	43.0
87.5°	14.3	11.7	6.5	10.4	15.6	15.6	18.2	19.6	18.2	18.2	18.2
90°	6.2	4.3	2.4	4.3	6.2	6.7	10.5	15.6	18.2	16.2	12.1
92.5°	42.0	25.8	9.5	25.8	42.0	46.0	64.8	89.7	102.2	89.6	64.3
95°	82.4	52.7	22.9	52.7	82.4	89.8	159.4	252.2	298.6	266.4	202.1
97.5°	92.0	65.8	39.7	65.8	92.0	98.6	214.7	369.4	446.8	426.5	385.9
100°	100.0	76.2	52.5	76.2	100.0	106.0	234.8	406.6	492.4	493.9	496.9
102.5°	107.8	85.7	63.5	85.7	107.8	113.3	244.0	418.3	505.4	531.2	583.0
105°	119.7	100.9	82.1	100.9	119.7	124.4	250.9	419.6	503.9	561.9	678.0
107.5°	136.2	118.7	101.2	118.7	136.2	140.6	252.2	400.9	475.2	556.2	718.0
110°	145.8	129.9	114.1	129.9	145.8	149.7	250.2	384.3	451.4	541.8	722.8



TEST NUMBER: P934922

CATALOG NUMBER: SQ4-FA-075U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	156.8	141.8	126.7	141.8	156.8	160.6	250.3	369.9	429.7	522.3	707.5
115°	173.6	159.7	145.8	159.7	173.6	177.1	252.6	353.3	403.6	492.9	671.3
117.5°	190.0	177.3	164.7	177.3	190.0	193.1	257.3	342.9	385.7	466.2	627.2
120°	199.4	187.6	175.7	187.6	199.4	202.4	261.1	339.4	378.5	452.1	599.3
122.5°	210.4	198.4	186.4	198.4	210.4	213.4	266.6	337.6	373.1	439.3	571.8
125°	224.8	213.8	202.9	213.8	224.8	227.5	274.0	336.1	367.1	423.4	536.0
127.5°	238.3	227.3	216.3	227.3	238.3	241.1	281.4	335.3	362.1	410.5	507.1
130°	247.2	235.3	223.5	235.3	247.2	250.2	286.8	335.7	360.2	403.2	489.3
132.5°	254.6	242.7	230.8	242.7	254.6	257.6	291.2	336.1	358.5	397.0	474.1
135°	263.4	252.6	241.8	252.6	263.4	266.1	296.0	335.8	355.7	387.9	452.5
137.5°	274.4	263.7	253.0	263.7	274.4	277.1	303.1	337.9	355.2	382.5	437.0
140°	282.1	272.2	262.3	272.2	282.1	284.5	307.5	338.2	353.5	377.1	424.1
142.5°	287.7	278.6	269.5	278.6	287.7	290.0	311.2	339.4	353.5	374.2	415.6
145°	296.4	288.4	280.4	288.4	296.4	298.4	315.9	339.4	351.1	368.1	401.9
147.5°	306.9	299.1	291.4	299.1	306.9	308.8	322.9	341.7	351.1	364.4	391.1
150°	312.6	305.6	298.6	305.6	312.6	314.4	326.6	343.0	351.1	362.4	384.8
152.5°	316.6	311.3	306.0	311.3	316.6	317.9	329.0	343.7	351.1	360.7	379.9
155°	324.8	320.9	317.0	320.9	324.8	325.8	334.3	345.5	351.1	358.7	374.0
157.5°	332.8	328.9	325.1	328.9	332.8	333.7	339.5	347.3	351.1	357.0	368.9
160°	336.5	333.6	330.6	333.6	336.5	337.3	341.9	348.0	351.1	356.2	366.4
162.5°	340.6	338.3	336.1	338.3	340.6	341.1	344.4	348.9	351.1	355.4	364.0
165°	346.0	344.0	342.0	344.0	346.0	346.6	348.1	350.1	351.1	354.2	360.4
167.5°	349.4	348.4	347.5	348.4	349.4	349.7	351.0	352.7	353.5	355.5	359.6
170°	353.0	352.0	351.1	352.0	353.0	353.3	353.4	353.4	353.5	355.5	359.6
172.5°	353.4	353.3	353.0	353.3	353.4	353.5	353.5	353.5	353.5	355.1	358.3
175°	355.7	355.7	355.7	355.7	355.7	355.7	355.0	354.0	353.5	354.5	356.5
177.5°	355.7	355.7	355.7	355.7	355.7	355.7	355.1	354.4	354.0	354.7	356.4
180°	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7



TEST NUMBER: P934922
 CATALOG NUMBER: SQ4-FA-075U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1329.2	1325.2	1330.5	1316.1	1330.5	1325.2	1329.2	1338.3	1330.5	1335.6	1340.9
5°	1166.2	1159.8	1138.9	1122.0	1138.9	1159.8	1166.2	1193.7	1206.7	1230.2	1261.4
7.5°	1042.5	1037.3	1032.0	1021.6	1032.0	1037.3	1042.5	1050.3	1063.3	1084.2	1107.6
10°	1015.1	1016.4	1024.3	1022.9	1024.3	1016.4	1015.1	1012.5	1008.6	1012.5	1026.8
12.5°	1085.5	1097.2	1140.2	1137.6	1140.2	1097.2	1085.5	1033.3	998.2	991.7	994.2
15°	1166.2	1170.2	1179.3	1180.6	1179.3	1170.2	1166.2	1145.5	1039.9	994.2	979.9
17.5°	1174.1	1175.4	1181.9	1181.9	1181.9	1175.4	1174.1	1164.9	1129.7	1068.5	987.8
20°	1167.6	1170.2	1183.2	1185.8	1183.2	1170.2	1167.6	1155.8	1136.3	1114.1	1052.9
22.5°	1164.9	1170.2	1180.6	1179.3	1180.6	1170.2	1164.9	1146.7	1129.7	1114.1	1089.4
25°	1151.9	1151.9	1153.2	1154.5	1153.2	1151.9	1151.9	1137.6	1103.7	1099.8	1085.5
27.5°	1124.6	1127.2	1135.0	1133.7	1135.0	1127.2	1124.6	1119.3	1082.9	1078.9	1068.5
30°	1099.8	1097.2	1090.7	1085.5	1090.7	1097.2	1099.8	1092.0	1055.5	1045.0	1047.7
32.5°	1058.1	1051.6	1045.0	1041.2	1045.0	1051.6	1058.1	1055.5	1028.1	1013.8	1016.4
35°	1008.6	1009.9	1008.6	1004.7	1008.6	1009.9	1008.6	1011.2	994.2	981.2	979.9
37.5°	973.4	976.0	974.7	969.5	974.7	976.0	973.4	970.8	947.3	943.4	946.0
40°	936.9	938.2	936.9	933.0	936.9	938.2	936.9	931.7	899.1	900.4	909.5
42.5°	901.7	900.4	896.5	893.9	896.5	900.4	901.7	893.9	852.2	848.3	865.2
45°	861.3	862.6	854.9	850.9	854.9	862.6	861.3	856.2	813.1	802.7	814.4
47.5°	821.0	821.0	814.4	810.5	814.4	821.0	821.0	814.4	768.8	758.4	764.9
50°	777.9	776.6	767.5	766.2	767.5	776.6	777.9	774.0	725.8	716.7	716.7
52.5°	728.4	728.4	729.7	732.3	729.7	728.4	728.4	729.7	686.8	677.6	675.0
55°	685.5	686.8	695.8	698.5	695.8	686.8	685.5	685.5	646.3	637.2	632.0
57.5°	641.1	641.1	647.6	647.6	647.6	641.1	641.1	638.5	600.8	592.9	590.3
60°	590.3	592.9	598.1	596.8	598.1	592.9	590.3	587.7	555.1	549.9	540.8
62.5°	536.8	539.5	540.8	538.2	540.8	539.5	536.8	529.1	509.5	505.6	493.9
65°	480.9	483.5	484.7	482.2	484.7	483.5	480.9	476.9	462.6	456.1	445.7
67.5°	423.5	422.2	420.9	426.1	420.9	422.2	423.5	418.3	409.2	403.9	389.6
70°	364.8	364.8	363.6	366.1	363.6	364.8	364.8	361.0	355.7	351.8	338.8
72.5°	302.3	301.0	306.2	302.3	306.2	301.0	302.3	301.0	298.4	294.5	281.4
75°	241.1	243.7	241.1	245.0	241.1	243.7	241.1	242.4	241.1	238.5	229.3
77.5°	183.7	186.3	183.7	183.7	183.7	186.3	183.7	185.0	185.0	185.0	177.3
80°	130.3	129.0	129.0	127.7	129.0	129.0	130.3	130.3	131.6	129.0	126.4
82.5°	83.4	82.1	82.1	84.7	82.1	82.1	83.4	84.7	82.1	82.1	82.1
85°	45.6	46.9	44.3	44.3	44.3	46.9	45.6	43.0	45.6	45.6	44.3
87.5°	16.9	15.6	15.6	15.6	15.6	15.6	16.9	18.2	18.2	18.2	19.6
90°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	12.1	16.2	18.2	15.6
92.5°	45.4	43.6	36.3	29.1	36.3	43.6	45.4	64.3	89.6	102.2	89.7
95°	153.9	148.5	126.7	104.8	126.7	148.5	153.9	202.1	266.4	298.6	252.2
97.5°	355.4	345.0	303.5	261.9	303.5	345.0	355.4	385.9	426.5	446.8	369.4
100°	499.1	486.7	437.2	387.6	437.2	486.7	499.1	496.9	493.9	492.4	406.6
102.5°	621.8	611.1	568.7	526.3	568.7	611.1	621.8	583.0	531.2	505.4	418.3
105°	765.0	759.3	736.5	713.7	736.5	759.3	765.0	678.0	561.9	503.9	419.6
107.5°	839.5	840.8	846.4	851.9	846.4	840.8	839.5	718.0	556.2	475.2	400.9
110°	858.6	864.5	888.3	912.1	888.3	864.5	858.6	722.8	541.8	451.4	384.3



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CATALOG NUMBER: SQ4-FA-075U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	846.4	855.5	892.0	928.5	892.0	855.5	846.4	707.5	522.3	429.7	369.9
115°	805.1	817.7	868.4	919.0	868.4	817.7	805.1	671.3	492.9	403.6	353.3
117.5°	748.1	762.1	818.2	874.3	818.2	762.1	748.1	627.2	466.2	385.7	342.9
120°	709.6	723.3	777.8	832.3	777.8	723.3	709.6	599.3	452.1	378.5	339.4
122.5°	671.2	684.7	738.4	792.3	738.4	684.7	671.2	571.8	439.3	373.1	337.6
125°	620.4	632.8	682.3	731.8	682.3	632.8	620.4	536.0	423.4	367.1	336.1
127.5°	579.6	590.1	631.8	673.6	631.8	590.1	579.6	507.1	410.5	362.1	335.3
130°	553.8	563.4	602.1	640.6	602.1	563.4	553.8	489.3	403.2	360.2	335.7
132.5°	531.8	540.5	575.0	609.6	575.0	540.5	531.8	474.1	397.0	358.5	336.1
135°	500.8	508.3	538.1	567.9	538.1	508.3	500.8	452.5	387.9	355.7	335.8
137.5°	477.9	483.9	508.4	532.8	508.4	483.9	477.9	437.0	382.5	355.2	337.9
140°	459.5	465.2	488.0	510.8	488.0	465.2	459.5	424.1	377.1	353.5	338.2
142.5°	446.6	451.5	471.1	490.7	471.1	451.5	446.6	415.6	374.2	353.5	339.4
145°	427.3	431.0	445.8	460.7	445.8	431.0	427.3	401.9	368.1	351.1	339.4
147.5°	411.0	414.1	426.4	438.7	426.4	414.1	411.0	391.1	364.4	351.1	341.7
150°	401.7	404.2	414.2	424.2	414.2	404.2	401.7	384.8	362.4	351.1	343.0
152.5°	394.3	396.2	403.7	411.3	403.7	396.2	394.3	379.9	360.7	351.1	343.7
155°	385.5	386.7	391.7	396.7	391.7	386.7	385.5	374.0	358.7	351.1	345.5
157.5°	377.8	378.7	382.2	385.7	382.2	378.7	377.8	368.9	357.0	351.1	347.3
160°	374.1	374.5	376.5	378.5	376.5	374.5	374.1	366.4	356.2	351.1	348.0
162.5°	370.4	370.9	372.8	374.8	372.8	370.9	370.4	364.0	355.4	351.1	348.9
165°	365.0	365.5	367.5	369.5	367.5	365.5	365.0	360.4	354.2	351.1	350.1
167.5°	362.6	362.8	363.7	364.5	363.7	362.8	362.6	359.6	355.5	353.5	352.7
170°	362.6	362.6	362.6	362.6	362.6	362.6	362.6	359.6	355.5	353.5	353.4
172.5°	360.7	360.5	359.7	359.0	359.7	360.5	360.7	358.3	355.1	353.5	353.5
175°	358.0	358.0	358.0	358.0	358.0	358.0	358.0	356.5	354.5	353.5	354.0
177.5°	357.6	357.4	356.5	355.7	356.5	357.4	357.6	356.4	354.7	354.0	354.4
180°	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7



TEST NUMBER: P934922

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1360.4	1366.9	1370.8	1376.1	1389.1
5°	1308.3	1333.0	1340.9	1360.4	1383.8
7.5°	1193.7	1269.2	1290.1	1337.0	1373.4
10°	1082.9	1158.5	1195.0	1305.7	1360.4
12.5°	1026.8	1071.1	1095.9	1250.9	1342.2
15°	991.7	1022.9	1041.2	1178.0	1321.3
17.5°	964.3	986.4	999.5	1106.3	1292.7
20°	947.3	957.8	969.5	1054.2	1260.1
22.5°	935.6	929.1	938.2	1017.7	1215.8
25°	927.8	903.1	913.5	989.1	1163.6
27.5°	934.3	879.6	883.5	963.0	1109.0
30°	935.6	850.9	852.2	935.6	1047.7
32.5°	926.5	821.0	822.3	901.7	978.6
35°	904.4	785.8	784.5	862.6	884.8
37.5°	874.3	748.0	748.0	819.7	781.9
40°	837.9	710.2	714.1	763.6	690.6
42.5°	793.6	669.8	675.0	689.3	622.9
45°	745.4	630.7	634.6	582.5	570.7
47.5°	691.9	590.3	591.6	483.5	553.8
50°	628.1	548.6	543.4	414.4	552.5
52.5°	572.0	503.0	487.3	375.3	501.7
55°	517.4	454.8	420.9	345.3	465.2
57.5°	469.1	392.2	359.7	310.2	457.4
60°	424.8	330.9	306.2	272.3	419.6
62.5°	388.3	285.4	280.1	246.2	380.5
65°	349.2	254.1	252.8	224.1	323.2
67.5°	311.5	233.2	231.9	203.3	246.2
70°	271.0	211.1	208.5	181.1	182.4
72.5°	229.3	186.3	183.7	162.9	151.2
75°	187.6	157.7	156.4	142.1	122.5
77.5°	147.2	125.1	127.7	114.7	89.9
80°	105.6	91.2	93.8	82.1	67.8
82.5°	70.4	59.9	62.5	52.1	45.6
85°	39.1	33.9	35.2	27.3	20.9
87.5°	18.2	15.6	15.6	10.4	6.5
90°	10.5	6.7	6.2	4.3	2.4
92.5°	64.8	46.0	42.0	25.8	9.5
95°	159.4	89.8	82.4	52.7	22.9
97.5°	214.7	98.6	92.0	65.8	39.7
100°	234.8	106.0	100.0	76.2	52.5
102.5°	244.0	113.3	107.8	85.7	63.5
105°	250.9	124.4	119.7	100.9	82.1
107.5°	252.2	140.6	136.2	118.7	101.2
110°	250.2	149.7	145.8	129.9	114.1



TEST NUMBER: P934922

CATALOG NUMBER: SQ4-FA-075U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	250.3	160.6	156.8	141.8	126.7
115°	252.6	177.1	173.6	159.7	145.8
117.5°	257.3	193.1	190.0	177.3	164.7
120°	261.1	202.4	199.4	187.6	175.7
122.5°	266.6	213.4	210.4	198.4	186.4
125°	274.0	227.5	224.8	213.8	202.9
127.5°	281.4	241.1	238.3	227.3	216.3
130°	286.8	250.2	247.2	235.3	223.5
132.5°	291.2	257.6	254.6	242.7	230.8
135°	296.0	266.1	263.4	252.6	241.8
137.5°	303.1	277.1	274.4	263.7	253.0
140°	307.5	284.5	282.1	272.2	262.3
142.5°	311.2	290.0	287.7	278.6	269.5
145°	315.9	298.4	296.4	288.4	280.4
147.5°	322.9	308.8	306.9	299.1	291.4
150°	326.6	314.4	312.6	305.6	298.6
152.5°	329.0	317.9	316.6	311.3	306.0
155°	334.3	325.8	324.8	320.9	317.0
157.5°	339.5	333.7	332.8	328.9	325.1
160°	341.9	337.3	336.5	333.6	330.6
162.5°	344.4	341.1	340.6	338.3	336.1
165°	348.1	346.6	346.0	344.0	342.0
167.5°	351.0	349.7	349.4	348.4	347.5
170°	353.4	353.3	353.0	352.0	351.1
172.5°	353.5	353.5	353.4	353.3	353.0
175°	355.0	355.7	355.7	355.7	355.7
177.5°	355.1	355.7	355.7	355.7	355.7
180°	355.7	355.7	355.7	355.7	355.7



TEST NUMBER: P934922
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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	14.59	15.55	15.44	16.43	17.54	17.38	18.35	18.24	19.23	20.34
	3H	15.07	15.94	15.94	16.83	17.96	18.73	19.59	19.60	20.48	21.62
	4H	15.27	16.09	16.15	16.98	18.13	19.17	19.99	20.06	20.88	22.03
	6H	15.39	16.15	16.29	17.05	18.21	19.45	20.21	20.35	21.11	22.27
	8H	15.40	16.12	16.30	17.04	18.19	19.53	20.24	20.43	21.17	22.32
	12H	15.37	16.06	16.28	16.97	18.15	19.56	20.25	20.48	21.16	22.35
4H	2H	15.62	16.44	16.52	17.34	18.48	17.81	18.63	18.70	19.52	20.67
	3H	16.66	17.34	17.56	18.27	19.43	19.31	20.00	20.22	20.92	22.08
	4H	16.94	17.56	17.86	18.49	19.67	19.84	20.46	20.75	21.38	22.57
	6H	17.07	17.61	18.00	18.56	19.74	20.20	20.74	21.13	21.69	22.87
	8H	17.08	17.58	18.01	18.52	19.72	20.31	20.81	21.24	21.75	22.95
	12H	17.05	17.50	18.00	18.46	19.67	20.36	20.82	21.31	21.77	22.98
8H	4H	17.40	17.90	18.33	18.84	20.04	19.97	20.47	20.90	21.42	22.62
	6H	17.66	18.08	18.62	19.06	20.26	20.41	20.82	21.36	21.80	23.00
	8H	17.71	18.07	18.67	19.05	20.26	20.55	20.92	21.52	21.89	23.11
	12H	17.70	18.02	18.67	18.99	20.25	20.65	20.97	21.62	21.94	23.21
12H	4H	17.41	17.86	18.36	18.82	20.03	19.94	20.39	20.89	21.35	22.56
	6H	17.72	18.09	18.69	19.06	20.28	20.40	20.77	21.37	21.74	22.96
	8H	17.80	18.12	18.77	19.08	20.35	20.56	20.89	21.54	21.85	23.12