

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: P935914

Luminaire Tested: SQ4-FA-150U-075D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935914
REPORT IS A COMBINATION OF REPORTS P933774 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

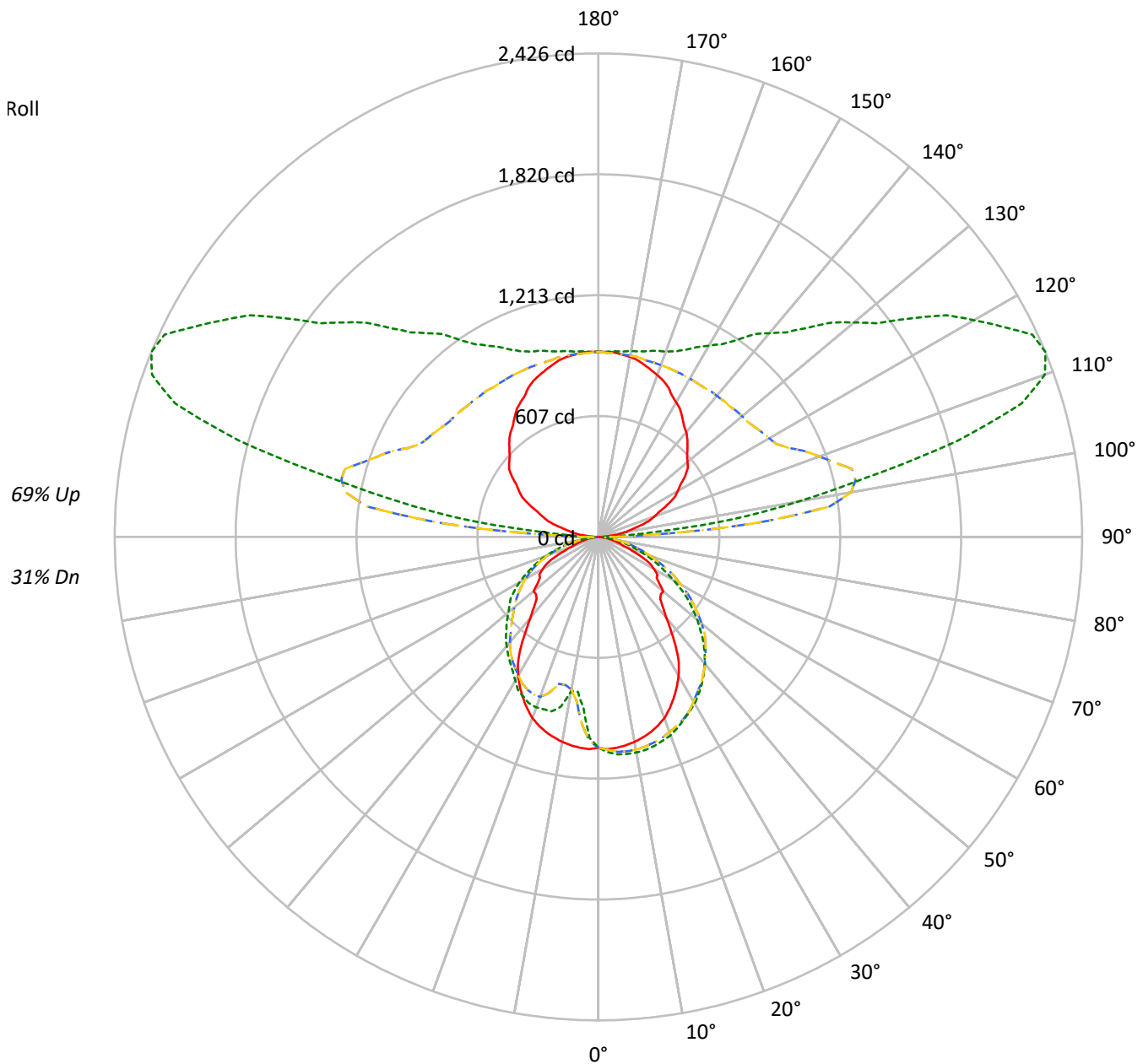
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8769.0 lumens
Efficiency: N/A
Efficacy: 137.9 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-Indirect

Input Watts (W): 63.6
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	34	34	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	30	29	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9809	9809	9809	9809
5°	9872	9903	9872	7786
10°	9795	9755	9795	6974
15°	9677	9543	9677	7968
20°	9464	9292	9464	7985
25°	9039	8927	9039	7816
30°	8493	8624	8493	7444
35°	7560	8241	7560	7036
40°	6289	7789	6289	6728
45°	5609	7261	5609	6373
50°	5945	6631	5945	6017
55°	5578	5952	5578	5811
60°	5728	5055	5728	5323
65°	5168	4178	5168	4672
70°	3554	3330	3554	3915
75°	3083	2461	3083	2947
80°	2434	1627	2434	1772
85°	1325	862	1325	733

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8612 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	1.1
10°-20°	270.9	3.1
20°-30°	418.8	4.8
30°-40°	500.0	5.7
40°-50°	502.9	5.7
50°-60°	437.6	5.0
60°-70°	310.3	3.5
70°-80°	164.1	1.9
80°-90°	44.4	0.5
90°-100°	453.0	5.2
100°-110°	1191.0	13.6
110°-120°	1234.9	14.1
120°-130°	990.5	11.3
130°-140°	777.2	8.9
140°-150°	596.6	6.8
150°-160°	429.6	4.9
160°-170°	262.9	3.0
170°-180°	88.8	1.0
0°-30°	785.2	9.0
0°-40°	1285.2	14.7
0°-60°	2225.7	25.4
0°-90°	2744.5	31.3
90°-120°	2878.9	32.8
90°-150°	5243.2	59.8
90°-180°	6024.0	68.7
0°-180°	8769.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1057	1057	1057	1057	1057	
5°	1062	1095	1062	861	1062	101
15°	1014	1085	1014	906	1014	285
25°	893	1012	893	886	893	410
35°	679	903	679	771	679	420
45°	438	744	438	653	438	351
55°	357	549	357	536	357	328
65°	248	331	248	370	248	237
75°	94	157	94	188	94	99
85°	16	40	16	34	16	22
90°	6	24	6	24	6	6
95°	60	274	60	274	60	66
105°	215	1865	215	1865	215	227
115°	381	2401	381	2401	381	376
125°	530	1912	530	1912	530	471
135°	632	1484	632	1484	632	489
145°	733	1204	733	1204	733	459
155°	828	1037	828	1037	828	381
165°	894	966	894	966	894	252
175°	929	936	929	936	929	88
180°	929	929	929	929	929	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1
2.5°	1066.1	1066.1	1072.2	1074.2	1074.2	1071.2	1068.2	1071.2	1080.2	1083.2	1082.2
5°	1062.1	1070.2	1081.2	1083.2	1085.2	1084.2	1082.2	1084.2	1094.2	1096.2	1097.2
7.5°	1054.1	1069.2	1083.2	1086.2	1089.2	1086.2	1085.2	1087.2	1097.2	1099.2	1099.2
10°	1044.1	1065.1	1081.2	1083.2	1086.2	1083.2	1083.2	1087.2	1097.2	1099.2	1100.2
12.5°	1030.1	1059.1	1074.2	1076.2	1080.2	1079.2	1078.2	1082.2	1092.2	1094.2	1094.2
15°	1014.1	1048.1	1062.1	1064.1	1071.2	1069.2	1069.2	1073.2	1084.2	1087.2	1086.2
17.5°	992.1	1034.1	1050.1	1053.1	1058.1	1057.1	1058.1	1062.1	1072.2	1074.2	1075.2
20°	967.1	1015.1	1034.1	1037.1	1042.1	1042.1	1042.1	1047.1	1057.1	1061.1	1061.1
22.5°	933.1	995.1	1015.1	1017.1	1023.1	1023.1	1025.1	1032.1	1041.1	1042.1	1042.1
25°	893.1	973.1	990.1	996.1	1002.1	1005.1	1008.1	1012.1	1015.1	1014.1	1015.1
27.5°	851.1	945.1	967.1	971.1	979.1	982.1	986.1	987.1	988.1	991.1	989.1
30°	804.1	906.1	939.1	943.1	956.1	958.1	954.1	956.1	961.1	963.1	965.1
32.5°	751.1	848.1	910.1	919.1	931.1	925.1	924.1	927.1	935.1	935.1	937.1
35°	679.1	803.1	883.1	891.1	900.1	893.1	897.1	898.1	903.1	906.1	905.1
37.5°	600.1	764.1	855.1	861.1	868.1	859.1	865.1	868.1	872.1	870.1	870.1
40°	530.1	703.1	822.1	826.1	832.1	825.1	831.1	833.1	835.1	833.1	832.1
42.5°	478.1	636.1	787.1	792.1	788.1	793.1	795.1	799.1	796.1	792.1	792.1
45°	438.1	618.1	749.1	755.1	749.1	757.1	760.1	760.1	751.1	749.1	748.1
47.5°	425.1	582.1	711.1	711.1	708.1	718.1	723.1	716.1	707.1	704.1	704.1
50°	424.1	542.1	659.1	655.1	669.1	681.1	676.1	669.1	662.1	651.1	651.1
52.5°	385.1	493.1	592.1	607.1	629.1	636.1	628.1	621.1	609.1	604.1	600.1
55°	357.1	442.1	531.1	561.1	584.1	593.1	578.1	571.1	553.1	550.1	548.1
57.5°	351.0	368.1	475.1	513.1	541.1	540.1	531.1	518.1	503.1	500.1	499.1
60°	322.0	266.0	415.1	460.1	489.1	486.1	478.1	466.1	452.1	450.1	448.1
62.5°	292.0	193.0	347.0	398.1	439.1	438.1	431.1	413.1	403.1	398.1	394.1
65°	248.0	162.0	247.0	331.0	390.1	392.1	377.1	364.1	353.0	347.0	346.0
67.5°	189.0	132.0	167.0	276.0	343.0	341.0	322.0	316.0	302.0	299.0	293.0
70°	140.0	88.0	116.0	224.0	297.0	292.0	277.0	270.0	257.0	250.0	246.0
72.5°	116.0	71.0	85.0	174.0	250.0	244.0	231.0	223.0	212.0	206.0	202.0
75°	94.0	75.0	65.0	129.0	203.0	199.0	187.0	179.0	170.0	162.0	163.0
77.5°	69.0	70.0	52.0	95.0	161.0	155.0	148.0	138.0	134.0	126.0	126.0
80°	52.0	55.0	39.0	65.0	116.0	116.0	110.0	103.0	96.0	92.0	92.0
82.5°	35.0	35.0	29.0	41.0	79.0	76.0	72.0	70.0	66.0	64.0	64.0
85°	16.0	20.0	18.0	25.0	43.0	45.0	45.0	43.0	42.0	40.0	41.0
87.5°	5.0	9.0	11.0	14.0	22.0	23.0	24.0	24.0	24.0	25.0	25.0
90°	6.2	11.2	16.2	17.5	27.5	40.8	47.4	42.1	31.6	23.7	23.7
92.5°	24.9	67.3	109.8	120.4	169.2	234.3	266.9	233.9	168.0	118.5	113.8
95°	59.9	137.5	215.1	234.5	416.4	659.0	780.3	696.3	528.3	402.3	388.0
97.5°	103.5	172.0	240.5	257.6	560.9	965.4	1167.6	1114.5	1008.3	928.7	901.5
100°	137.2	199.3	261.4	276.9	613.5	1062.3	1286.7	1290.6	1298.4	1304.2	1271.8
102.5°	165.9	223.9	281.8	296.3	637.7	1092.8	1320.4	1388.0	1523.3	1624.8	1597.1
105°	214.6	263.7	312.7	325.0	655.5	1096.2	1316.6	1468.2	1771.5	1999.0	1984.1
107.5°	264.5	310.2	356.0	367.4	658.9	1047.5	1241.8	1453.3	1876.3	2193.6	2197.2
110°	298.1	339.4	380.8	391.1	653.9	1004.2	1179.4	1415.9	1888.8	2243.5	2259.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	331.2	370.6	410.0	419.8	654.1	966.5	1122.7	1364.7	1848.7	2211.7	2235.5
115°	381.1	417.4	453.7	462.8	660.1	923.2	1054.7	1287.8	1754.1	2103.8	2136.9
117.5°	430.4	463.4	496.4	504.6	672.4	896.1	1007.9	1218.3	1639.1	1954.7	1991.4
120°	459.0	490.1	521.1	528.9	682.3	886.9	989.2	1181.4	1565.9	1854.3	1889.9
122.5°	487.1	518.4	549.8	557.6	696.7	882.2	974.9	1148.0	1494.2	1753.9	1789.0
125°	530.2	558.7	587.3	594.4	716.0	878.2	959.3	1106.3	1400.4	1621.0	1653.4
127.5°	565.1	593.9	622.7	629.9	735.3	875.9	946.2	1072.5	1325.0	1514.4	1541.7
130°	583.8	614.8	645.8	653.6	749.5	877.3	941.2	1053.6	1278.4	1447.0	1472.2
132.5°	603.1	634.2	665.2	673.0	760.9	878.2	936.8	1037.4	1238.7	1389.6	1412.2
135°	631.8	660.1	688.3	695.4	773.4	877.3	929.3	1013.6	1182.1	1308.5	1328.0
137.5°	661.1	689.1	717.1	724.1	792.1	882.8	928.1	999.3	1141.8	1248.7	1264.6
140°	685.5	711.3	737.1	743.5	803.6	883.7	923.7	985.2	1108.3	1200.6	1215.5
142.5°	704.2	728.0	751.8	757.8	813.1	886.8	923.7	977.8	1085.9	1167.0	1179.8
145°	732.9	753.7	774.4	779.6	825.6	886.9	917.5	961.7	1050.1	1116.4	1126.1
147.5°	761.5	781.8	802.0	807.1	843.9	893.0	917.5	952.3	1021.8	1074.0	1082.0
150°	780.3	798.6	816.8	821.4	853.4	896.1	917.5	946.9	1005.6	1049.7	1056.2
152.5°	799.6	813.5	827.3	830.8	859.7	898.2	917.5	942.6	992.8	1030.4	1035.3
155°	828.3	838.6	848.8	851.4	873.4	902.8	917.5	937.5	977.4	1007.3	1010.6
157.5°	849.5	859.5	869.4	871.9	887.1	907.4	917.5	933.0	964.0	987.3	989.6
160°	863.8	871.6	879.4	881.3	893.4	909.5	917.5	930.8	957.4	977.3	978.6
162.5°	878.2	884.0	889.8	891.3	900.0	911.7	917.5	928.7	951.2	968.0	969.2
165°	893.8	899.0	904.3	905.6	909.6	914.9	917.5	925.5	941.6	953.6	954.9
167.5°	908.1	910.6	913.1	913.7	917.0	921.5	923.7	929.0	939.5	947.4	948.0
170°	917.5	920.0	922.5	923.1	923.3	923.6	923.7	929.0	939.5	947.4	947.4
172.5°	922.5	923.0	923.6	923.7	923.7	923.7	923.7	927.9	936.2	942.4	941.9
175°	929.3	929.3	929.3	929.3	927.4	924.9	923.7	926.3	931.6	935.6	935.6
177.5°	929.3	929.3	929.3	929.3	927.9	926.0	925.0	927.1	931.2	934.3	933.7
180°	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1
2.5°	1084.2	1081.2	1084.2	1082.2	1083.2	1080.2	1071.2	1068.2	1071.2	1074.2	1074.2
5°	1097.2	1095.2	1097.2	1097.2	1096.2	1094.2	1084.2	1082.2	1084.2	1085.2	1083.2
7.5°	1101.2	1098.2	1101.2	1099.2	1099.2	1097.2	1087.2	1085.2	1086.2	1089.2	1086.2
10°	1101.2	1098.2	1101.2	1100.2	1099.2	1097.2	1087.2	1083.2	1083.2	1086.2	1083.2
12.5°	1096.2	1094.2	1096.2	1094.2	1094.2	1092.2	1082.2	1078.2	1079.2	1080.2	1076.2
15°	1088.2	1085.2	1088.2	1086.2	1087.2	1084.2	1073.2	1069.2	1069.2	1071.2	1064.1
17.5°	1076.2	1072.2	1076.2	1075.2	1074.2	1072.2	1062.1	1058.1	1057.1	1058.1	1053.1
20°	1062.1	1059.1	1062.1	1061.1	1061.1	1057.1	1047.1	1042.1	1042.1	1042.1	1037.1
22.5°	1040.1	1037.1	1040.1	1042.1	1042.1	1041.1	1032.1	1025.1	1023.1	1023.1	1017.1
25°	1015.1	1012.1	1015.1	1015.1	1014.1	1015.1	1012.1	1008.1	1005.1	1002.1	996.1
27.5°	991.1	989.1	991.1	989.1	991.1	988.1	987.1	986.1	982.1	979.1	971.1
30°	967.1	965.1	967.1	965.1	963.1	961.1	956.1	954.1	958.1	956.1	943.1
32.5°	937.1	935.1	937.1	937.1	935.1	935.1	927.1	924.1	925.1	931.1	919.1
35°	906.1	903.1	906.1	905.1	906.1	903.1	898.1	897.1	893.1	900.1	891.1
37.5°	870.1	867.1	870.1	870.1	870.1	872.1	868.1	865.1	859.1	868.1	861.1
40°	833.1	829.1	833.1	832.1	833.1	835.1	833.1	831.1	825.1	832.1	826.1
42.5°	791.1	790.1	791.1	792.1	792.1	796.1	799.1	795.1	793.1	788.1	792.1
45°	746.1	744.1	746.1	748.1	749.1	751.1	760.1	760.1	757.1	749.1	755.1
47.5°	698.1	693.1	698.1	704.1	704.1	707.1	716.1	723.1	718.1	708.1	711.1
50°	647.1	648.1	647.1	651.1	651.1	662.1	669.1	676.1	681.1	669.1	655.1
52.5°	597.1	596.1	597.1	600.1	604.1	609.1	621.1	628.1	636.1	629.1	607.1
55°	547.1	549.1	547.1	548.1	550.1	553.1	571.1	578.1	593.1	584.1	561.1
57.5°	497.1	494.1	497.1	499.1	500.1	503.1	518.1	531.1	540.1	541.1	513.1
60°	439.1	435.1	439.1	448.1	450.1	452.1	466.1	478.1	486.1	489.1	460.1
62.5°	388.1	381.1	388.1	394.1	398.1	403.1	413.1	431.1	438.1	439.1	398.1
65°	334.0	331.0	334.0	346.0	347.0	353.0	364.1	377.1	392.1	390.1	331.0
67.5°	285.0	285.0	285.0	293.0	299.0	302.0	316.0	322.0	341.0	343.0	276.0
70°	240.0	239.0	240.0	246.0	250.0	257.0	270.0	277.0	292.0	297.0	224.0
72.5°	197.0	196.0	197.0	202.0	206.0	212.0	223.0	231.0	244.0	250.0	174.0
75°	159.0	157.0	159.0	163.0	162.0	170.0	179.0	187.0	199.0	203.0	129.0
77.5°	122.0	122.0	122.0	126.0	126.0	134.0	138.0	148.0	155.0	161.0	95.0
80°	91.0	90.0	91.0	92.0	92.0	96.0	103.0	110.0	116.0	116.0	65.0
82.5°	64.0	62.0	64.0	64.0	64.0	66.0	70.0	72.0	76.0	79.0	41.0
85°	40.0	40.0	40.0	41.0	40.0	42.0	43.0	45.0	45.0	43.0	25.0
87.5°	26.0	25.0	26.0	25.0	25.0	24.0	24.0	24.0	23.0	22.0	14.0
90°	23.7	23.7	23.7	23.7	23.7	31.6	42.1	47.4	40.8	27.5	17.5
92.5°	94.9	76.1	94.9	113.8	118.5	168.0	233.9	266.9	234.3	169.2	120.4
95°	330.9	273.8	330.9	388.0	402.3	528.3	696.3	780.3	659.0	416.4	234.5
97.5°	792.9	684.2	792.9	901.5	928.7	1008.3	1114.5	1167.6	965.4	560.9	257.6
100°	1142.4	1012.9	1142.4	1271.8	1304.2	1298.4	1290.6	1286.7	1062.3	613.5	276.9
102.5°	1486.2	1375.3	1486.2	1597.1	1624.8	1523.3	1388.0	1320.4	1092.8	637.7	296.3
105°	1924.5	1864.9	1924.5	1984.1	1999.0	1771.5	1468.2	1316.6	1096.2	655.5	325.0
107.5°	2211.6	2226.0	2211.6	2197.2	2193.6	1876.3	1453.3	1241.8	1047.5	658.9	367.4
110°	2321.1	2383.2	2321.1	2259.0	2243.5	1888.8	1415.9	1179.4	1004.2	653.9	391.1



TEST NUMBER: P935914

CATALOG NUMBER: SQ4-FA-150U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2330.9	2426.2	2330.9	2235.5	2211.7	1848.7	1364.7	1122.7	966.5	654.1	419.8
115°	2269.1	2401.3	2269.1	2136.9	2103.8	1754.1	1287.8	1054.7	923.2	660.1	462.8
117.5°	2138.0	2284.6	2138.0	1991.4	1954.7	1639.1	1218.3	1007.9	896.1	672.4	504.6
120°	2032.4	2174.9	2032.4	1889.9	1854.3	1565.9	1181.4	989.2	886.9	682.3	528.9
122.5°	1929.6	2070.1	1929.6	1789.0	1753.9	1494.2	1148.0	974.9	882.2	696.7	557.6
125°	1782.8	1912.3	1782.8	1653.4	1621.0	1400.4	1106.3	959.3	878.2	716.0	594.4
127.5°	1650.9	1760.1	1650.9	1541.7	1514.4	1325.0	1072.5	946.2	875.9	735.3	629.9
130°	1573.1	1674.0	1573.1	1472.2	1447.0	1278.4	1053.6	941.2	877.3	749.5	653.6
132.5°	1502.5	1592.9	1502.5	1412.2	1389.6	1238.7	1037.4	936.8	878.2	760.9	673.0
135°	1405.9	1483.8	1405.9	1328.0	1308.5	1182.1	1013.6	929.3	877.3	773.4	695.4
137.5°	1328.4	1392.1	1328.4	1264.6	1248.7	1141.8	999.3	928.1	882.8	792.1	724.1
140°	1275.1	1334.7	1275.1	1215.5	1200.6	1108.3	985.2	923.7	883.7	803.6	743.5
142.5°	1231.1	1282.3	1231.1	1179.8	1167.0	1085.9	977.8	923.7	886.8	813.1	757.8
145°	1165.0	1203.8	1165.0	1126.1	1116.4	1050.1	961.7	917.5	886.9	825.6	779.6
147.5°	1114.2	1146.4	1114.2	1082.0	1074.0	1021.8	952.3	917.5	893.0	843.9	807.1
150°	1082.3	1108.3	1082.3	1056.2	1049.7	1005.6	946.9	917.5	896.1	853.4	821.4
152.5°	1055.0	1074.6	1055.0	1035.3	1030.4	992.8	942.6	917.5	898.2	859.7	830.8
155°	1023.6	1036.6	1023.6	1010.6	1007.3	977.4	937.5	917.5	902.8	873.4	851.4
157.5°	998.7	1007.9	998.7	989.6	987.3	964.0	933.0	917.5	907.4	887.1	871.9
160°	983.9	989.2	983.9	978.6	977.3	957.4	930.8	917.5	909.5	893.4	881.3
162.5°	974.2	979.2	974.2	969.2	968.0	951.2	928.7	917.5	911.7	900.0	891.3
165°	960.2	965.5	960.2	954.9	953.6	941.6	925.5	917.5	914.9	909.6	905.6
167.5°	950.2	952.4	950.2	948.0	947.4	939.5	929.0	923.7	921.5	917.0	913.7
170°	947.4	947.4	947.4	947.4	947.4	939.5	929.0	923.7	923.6	923.3	923.1
172.5°	940.0	938.1	940.0	941.9	942.4	936.2	927.9	923.7	923.7	923.7	923.7
175°	935.6	935.6	935.6	935.6	935.6	931.6	926.3	923.7	924.9	927.4	929.3
177.5°	931.5	929.3	931.5	933.7	934.3	931.2	927.1	925.0	926.0	927.9	929.3
180°	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3



TEST NUMBER: P935914

CATALOG NUMBER: SQ4-FA-150U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1
2.5°	1072.2	1066.1	1066.1	1056.1	1052.1	1049.1	1044.1	1029.1	1025.1	1021.1	1027.1
5°	1081.2	1070.2	1062.1	1044.1	1029.1	1023.1	1004.1	968.1	944.1	926.1	916.1
7.5°	1083.2	1069.2	1054.1	1026.1	990.1	974.1	916.1	850.1	832.1	816.1	806.1
10°	1081.2	1065.1	1044.1	1002.1	917.1	889.1	831.1	788.1	777.1	774.1	777.1
12.5°	1074.2	1059.1	1030.1	960.1	841.1	822.1	788.1	763.1	761.1	766.1	793.1
15°	1062.1	1048.1	1014.1	904.1	799.1	785.1	761.1	752.1	763.1	798.1	879.1
17.5°	1050.1	1034.1	992.1	849.1	767.1	757.1	740.1	758.1	820.1	867.1	894.1
20°	1034.1	1015.1	967.1	809.1	744.1	735.1	727.1	808.1	855.1	872.1	887.1
22.5°	1015.1	995.1	933.1	781.1	720.1	713.1	718.1	836.1	855.1	867.1	880.1
25°	990.1	973.1	893.1	759.1	701.1	693.1	712.1	833.1	844.1	847.1	873.1
27.5°	967.1	945.1	851.1	739.1	678.1	675.1	717.1	820.1	828.1	831.1	859.1
30°	939.1	906.1	804.1	718.1	654.1	653.1	718.1	804.1	802.1	810.1	838.1
32.5°	910.1	848.1	751.1	692.1	631.1	630.1	711.1	780.1	778.1	789.1	810.1
35°	883.1	803.1	679.1	662.1	602.1	603.1	694.1	752.1	753.1	763.1	776.1
37.5°	855.1	764.1	600.1	629.1	574.1	574.1	671.1	726.1	724.1	727.1	745.1
40°	822.1	703.1	530.1	586.1	548.1	545.1	643.1	698.1	691.1	690.1	715.1
42.5°	787.1	636.1	478.1	529.1	518.1	514.1	609.1	664.1	651.1	654.1	686.1
45°	749.1	618.1	438.1	447.1	487.1	484.1	572.1	625.1	616.1	624.1	657.1
47.5°	711.1	582.1	425.1	371.1	454.1	453.1	531.1	587.1	582.1	590.1	625.1
50°	659.1	542.1	424.1	318.0	417.1	421.1	482.1	550.1	550.1	557.1	594.1
52.5°	592.1	493.1	385.1	288.0	374.1	386.1	439.1	518.1	520.1	527.1	560.1
55°	531.1	442.1	357.1	265.0	323.0	349.0	397.1	485.1	489.1	496.1	526.1
57.5°	475.1	368.1	351.0	238.0	276.0	301.0	360.1	453.1	455.1	461.1	490.1
60°	415.1	266.0	322.0	209.0	235.0	254.0	326.0	415.1	422.1	426.1	451.1
62.5°	347.0	193.0	292.0	189.0	215.0	219.0	298.0	379.1	388.1	391.1	406.1
65°	247.0	162.0	248.0	172.0	194.0	195.0	268.0	342.0	350.0	355.0	366.1
67.5°	167.0	132.0	189.0	156.0	178.0	179.0	239.0	299.0	310.0	314.0	321.0
70°	116.0	88.0	140.0	139.0	160.0	162.0	208.0	260.0	270.0	273.0	277.0
72.5°	85.0	71.0	116.0	125.0	141.0	143.0	176.0	216.0	226.0	229.0	231.0
75°	65.0	75.0	94.0	109.0	120.0	121.0	144.0	176.0	183.0	185.0	186.0
77.5°	52.0	70.0	69.0	88.0	98.0	96.0	113.0	136.0	142.0	142.0	142.0
80°	39.0	55.0	52.0	63.0	72.0	70.0	81.0	97.0	99.0	101.0	100.0
82.5°	29.0	35.0	35.0	40.0	48.0	46.0	54.0	63.0	63.0	63.0	65.0
85°	18.0	20.0	16.0	21.0	27.0	26.0	30.0	34.0	35.0	35.0	33.0
87.5°	11.0	9.0	5.0	8.0	12.0	12.0	14.0	15.0	14.0	14.0	14.0
90°	16.2	11.2	6.2	11.2	16.2	17.5	27.5	40.8	47.4	42.1	31.6
92.5°	109.8	67.3	24.9	67.3	109.8	120.4	169.2	234.3	266.9	233.9	168.0
95°	215.1	137.5	59.9	137.5	215.1	234.5	416.4	659.0	780.3	696.3	528.3
97.5°	240.5	172.0	103.5	172.0	240.5	257.6	560.9	965.4	1167.6	1114.5	1008.3
100°	261.4	199.3	137.2	199.3	261.4	276.9	613.5	1062.3	1286.7	1290.6	1298.4
102.5°	281.8	223.9	165.9	223.9	281.8	296.3	637.7	1092.8	1320.4	1388.0	1523.3
105°	312.7	263.7	214.6	263.7	312.7	325.0	655.5	1096.2	1316.6	1468.2	1771.5
107.5°	356.0	310.2	264.5	310.2	356.0	367.4	658.9	1047.5	1241.8	1453.3	1876.3
110°	380.8	339.4	298.1	339.4	380.8	391.1	653.9	1004.2	1179.4	1415.9	1888.8



TEST NUMBER: P935914

CATALOG NUMBER: SQ4-FA-150U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	410.0	370.6	331.2	370.6	410.0	419.8	654.1	966.5	1122.7	1364.7	1848.7
115°	453.7	417.4	381.1	417.4	453.7	462.8	660.1	923.2	1054.7	1287.8	1754.1
117.5°	496.4	463.4	430.4	463.4	496.4	504.6	672.4	896.1	1007.9	1218.3	1639.1
120°	521.1	490.1	459.0	490.1	521.1	528.9	682.3	886.9	989.2	1181.4	1565.9
122.5°	549.8	518.4	487.1	518.4	549.8	557.6	696.7	882.2	974.9	1148.0	1494.2
125°	587.3	558.7	530.2	558.7	587.3	594.4	716.0	878.2	959.3	1106.3	1400.4
127.5°	622.7	593.9	565.1	593.9	622.7	629.9	735.3	875.9	946.2	1072.5	1325.0
130°	645.8	614.8	583.8	614.8	645.8	653.6	749.5	877.3	941.2	1053.6	1278.4
132.5°	665.2	634.2	603.1	634.2	665.2	673.0	760.9	878.2	936.8	1037.4	1238.7
135°	688.3	660.1	631.8	660.1	688.3	695.4	773.4	877.3	929.3	1013.6	1182.1
137.5°	717.1	689.1	661.1	689.1	717.1	724.1	792.1	882.8	928.1	999.3	1141.8
140°	737.1	711.3	685.5	711.3	737.1	743.5	803.6	883.7	923.7	985.2	1108.3
142.5°	751.8	728.0	704.2	728.0	751.8	757.8	813.1	886.8	923.7	977.8	1085.9
145°	774.4	753.7	732.9	753.7	774.4	779.6	825.6	886.9	917.5	961.7	1050.1
147.5°	802.0	781.8	761.5	781.8	802.0	807.1	843.9	893.0	917.5	952.3	1021.8
150°	816.8	798.6	780.3	798.6	816.8	821.4	853.4	896.1	917.5	946.9	1005.6
152.5°	827.3	813.5	799.6	813.5	827.3	830.8	859.7	898.2	917.5	942.6	992.8
155°	848.8	838.6	828.3	838.6	848.8	851.4	873.4	902.8	917.5	937.5	977.4
157.5°	869.4	859.5	849.5	859.5	869.4	871.9	887.1	907.4	917.5	933.0	964.0
160°	879.4	871.6	863.8	871.6	879.4	881.3	893.4	909.5	917.5	930.8	957.4
162.5°	889.8	884.0	878.2	884.0	889.8	891.3	900.0	911.7	917.5	928.7	951.2
165°	904.3	899.0	893.8	899.0	904.3	905.6	909.6	914.9	917.5	925.5	941.6
167.5°	913.1	910.6	908.1	910.6	913.1	913.7	917.0	921.5	923.7	929.0	939.5
170°	922.5	920.0	917.5	920.0	922.5	923.1	923.3	923.6	923.7	929.0	939.5
172.5°	923.6	923.0	922.5	923.0	923.6	923.7	923.7	923.7	923.7	927.9	936.2
175°	929.3	929.3	929.3	929.3	929.3	929.3	927.4	924.9	923.7	926.3	931.6
177.5°	929.3	929.3	929.3	929.3	929.3	929.3	927.9	926.0	925.0	927.1	931.2
180°	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3



TEST NUMBER: P935914
 CATALOG NUMBER: SQ4-FA-150U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1	1057.1
2.5°	1020.1	1017.1	1021.1	1010.1	1021.1	1017.1	1020.1	1027.1	1021.1	1025.1	1029.1
5°	895.1	890.1	874.1	861.1	874.1	890.1	895.1	916.1	926.1	944.1	968.1
7.5°	800.1	796.1	792.1	784.1	792.1	796.1	800.1	806.1	816.1	832.1	850.1
10°	779.1	780.1	786.1	785.1	786.1	780.1	779.1	777.1	774.1	777.1	788.1
12.5°	833.1	842.1	875.1	873.1	875.1	842.1	833.1	793.1	766.1	761.1	763.1
15°	895.1	898.1	905.1	906.1	905.1	898.1	895.1	879.1	798.1	763.1	752.1
17.5°	901.1	902.1	907.1	907.1	907.1	902.1	901.1	894.1	867.1	820.1	758.1
20°	896.1	898.1	908.1	910.1	908.1	898.1	896.1	887.1	872.1	855.1	808.1
22.5°	894.1	898.1	906.1	905.1	906.1	898.1	894.1	880.1	867.1	855.1	836.1
25°	884.1	884.1	885.1	886.1	885.1	884.1	884.1	873.1	847.1	844.1	833.1
27.5°	863.1	865.1	871.1	870.1	871.1	865.1	863.1	859.1	831.1	828.1	820.1
30°	844.1	842.1	837.1	833.1	837.1	842.1	844.1	838.1	810.1	802.1	804.1
32.5°	812.1	807.1	802.1	799.1	802.1	807.1	812.1	810.1	789.1	778.1	780.1
35°	774.1	775.1	774.1	771.1	774.1	775.1	774.1	776.1	763.1	753.1	752.1
37.5°	747.1	749.1	748.1	744.1	748.1	749.1	747.1	745.1	727.1	724.1	726.1
40°	719.1	720.1	719.1	716.1	719.1	720.1	719.1	715.1	690.1	691.1	698.1
42.5°	692.1	691.1	688.1	686.1	688.1	691.1	692.1	686.1	654.1	651.1	664.1
45°	661.1	662.1	656.1	653.1	656.1	662.1	661.1	657.1	624.1	616.1	625.1
47.5°	630.1	630.1	625.1	622.1	625.1	630.1	630.1	625.1	590.1	582.1	587.1
50°	597.1	596.1	589.1	588.1	589.1	596.1	597.1	594.1	557.1	550.1	550.1
52.5°	559.1	559.1	560.1	562.1	560.1	559.1	559.1	560.1	527.1	520.1	518.1
55°	526.1	527.1	534.1	536.1	534.1	527.1	526.1	526.1	496.1	489.1	485.1
57.5°	492.1	492.1	497.1	497.1	497.1	492.1	492.1	490.1	461.1	455.1	453.1
60°	453.1	455.1	459.1	458.1	459.1	455.1	453.1	451.1	426.1	422.1	415.1
62.5°	412.1	414.1	415.1	413.1	415.1	414.1	412.1	406.1	391.1	388.1	379.1
65°	369.1	371.1	372.1	370.1	372.1	371.1	369.1	366.1	355.0	350.0	342.0
67.5°	325.0	324.0	323.0	327.0	323.0	324.0	325.0	321.0	314.0	310.0	299.0
70°	280.0	280.0	279.0	281.0	279.0	280.0	280.0	277.0	273.0	270.0	260.0
72.5°	232.0	231.0	235.0	232.0	235.0	231.0	232.0	231.0	229.0	226.0	216.0
75°	185.0	187.0	185.0	188.0	185.0	187.0	185.0	186.0	185.0	183.0	176.0
77.5°	141.0	143.0	141.0	141.0	141.0	143.0	141.0	142.0	142.0	142.0	136.0
80°	100.0	99.0	99.0	98.0	99.0	99.0	100.0	100.0	101.0	99.0	97.0
82.5°	64.0	63.0	63.0	65.0	63.0	63.0	64.0	65.0	63.0	63.0	63.0
85°	35.0	36.0	34.0	34.0	34.0	36.0	35.0	33.0	35.0	35.0	34.0
87.5°	13.0	12.0	12.0	12.0	12.0	12.0	13.0	14.0	14.0	14.0	15.0
90°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	31.6	42.1	47.4	40.8
92.5°	118.5	113.8	94.9	76.1	94.9	113.8	118.5	168.0	233.9	266.9	234.3
95°	402.3	388.0	330.9	273.8	330.9	388.0	402.3	528.3	696.3	780.3	659.0
97.5°	928.7	901.5	792.9	684.2	792.9	901.5	928.7	1008.3	1114.5	1167.6	965.4
100°	1304.2	1271.8	1142.4	1012.9	1142.4	1271.8	1304.2	1298.4	1290.6	1286.7	1062.3
102.5°	1624.8	1597.1	1486.2	1375.3	1486.2	1597.1	1624.8	1523.3	1388.0	1320.4	1092.8
105°	1999.0	1984.1	1924.5	1864.9	1924.5	1984.1	1999.0	1771.5	1468.2	1316.6	1096.2
107.5°	2193.6	2197.2	2211.6	2226.0	2211.6	2197.2	2193.6	1876.3	1453.3	1241.8	1047.5
110°	2243.5	2259.0	2321.1	2383.2	2321.1	2259.0	2243.5	1888.8	1415.9	1179.4	1004.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2211.7	2235.5	2330.9	2426.2	2330.9	2235.5	2211.7	1848.7	1364.7	1122.7	966.5
115°	2103.8	2136.9	2269.1	2401.3	2269.1	2136.9	2103.8	1754.1	1287.8	1054.7	923.2
117.5°	1954.7	1991.4	2138.0	2284.6	2138.0	1991.4	1954.7	1639.1	1218.3	1007.9	896.1
120°	1854.3	1889.9	2032.4	2174.9	2032.4	1889.9	1854.3	1565.9	1181.4	989.2	886.9
122.5°	1753.9	1789.0	1929.6	2070.1	1929.6	1789.0	1753.9	1494.2	1148.0	974.9	882.2
125°	1621.0	1653.4	1782.8	1912.3	1782.8	1653.4	1621.0	1400.4	1106.3	959.3	878.2
127.5°	1514.4	1541.7	1650.9	1760.1	1650.9	1541.7	1514.4	1325.0	1072.5	946.2	875.9
130°	1447.0	1472.2	1573.1	1674.0	1573.1	1472.2	1447.0	1278.4	1053.6	941.2	877.3
132.5°	1389.6	1412.2	1502.5	1592.9	1502.5	1412.2	1389.6	1238.7	1037.4	936.8	878.2
135°	1308.5	1328.0	1405.9	1483.8	1405.9	1328.0	1308.5	1182.1	1013.6	929.3	877.3
137.5°	1248.7	1264.6	1328.4	1392.1	1328.4	1264.6	1248.7	1141.8	999.3	928.1	882.8
140°	1200.6	1215.5	1275.1	1334.7	1275.1	1215.5	1200.6	1108.3	985.2	923.7	883.7
142.5°	1167.0	1179.8	1231.1	1282.3	1231.1	1179.8	1167.0	1085.9	977.8	923.7	886.8
145°	1116.4	1126.1	1165.0	1203.8	1165.0	1126.1	1116.4	1050.1	961.7	917.5	886.9
147.5°	1074.0	1082.0	1114.2	1146.4	1114.2	1082.0	1074.0	1021.8	952.3	917.5	893.0
150°	1049.7	1056.2	1082.3	1108.3	1082.3	1056.2	1049.7	1005.6	946.9	917.5	896.1
152.5°	1030.4	1035.3	1055.0	1074.6	1055.0	1035.3	1030.4	992.8	942.6	917.5	898.2
155°	1007.3	1010.6	1023.6	1036.6	1023.6	1010.6	1007.3	977.4	937.5	917.5	902.8
157.5°	987.3	989.6	998.7	1007.9	998.7	989.6	987.3	964.0	933.0	917.5	907.4
160°	977.3	978.6	983.9	989.2	983.9	978.6	977.3	957.4	930.8	917.5	909.5
162.5°	968.0	969.2	974.2	979.2	974.2	969.2	968.0	951.2	928.7	917.5	911.7
165°	953.6	954.9	960.2	965.5	960.2	954.9	953.6	941.6	925.5	917.5	914.9
167.5°	947.4	948.0	950.2	952.4	950.2	948.0	947.4	939.5	929.0	923.7	921.5
170°	947.4	947.4	947.4	947.4	947.4	947.4	947.4	939.5	929.0	923.7	923.6
172.5°	942.4	941.9	940.0	938.1	940.0	941.9	942.4	936.2	927.9	923.7	923.7
175°	935.6	935.6	935.6	935.6	935.6	935.6	935.6	931.6	926.3	923.7	924.9
177.5°	934.3	933.7	931.5	929.3	931.5	933.7	934.3	931.2	927.1	925.0	926.0
180°	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1057.1	1057.1	1057.1	1057.1	1057.1
2.5°	1044.1	1049.1	1052.1	1056.1	1066.1
5°	1004.1	1023.1	1029.1	1044.1	1062.1
7.5°	916.1	974.1	990.1	1026.1	1054.1
10°	831.1	889.1	917.1	1002.1	1044.1
12.5°	788.1	822.1	841.1	960.1	1030.1
15°	761.1	785.1	799.1	904.1	1014.1
17.5°	740.1	757.1	767.1	849.1	992.1
20°	727.1	735.1	744.1	809.1	967.1
22.5°	718.1	713.1	720.1	781.1	933.1
25°	712.1	693.1	701.1	759.1	893.1
27.5°	717.1	675.1	678.1	739.1	851.1
30°	718.1	653.1	654.1	718.1	804.1
32.5°	711.1	630.1	631.1	692.1	751.1
35°	694.1	603.1	602.1	662.1	679.1
37.5°	671.1	574.1	574.1	629.1	600.1
40°	643.1	545.1	548.1	586.1	530.1
42.5°	609.1	514.1	518.1	529.1	478.1
45°	572.1	484.1	487.1	447.1	438.1
47.5°	531.1	453.1	454.1	371.1	425.1
50°	482.1	421.1	417.1	318.0	424.1
52.5°	439.1	386.1	374.1	288.0	385.1
55°	397.1	349.0	323.0	265.0	357.1
57.5°	360.1	301.0	276.0	238.0	351.0
60°	326.0	254.0	235.0	209.0	322.0
62.5°	298.0	219.0	215.0	189.0	292.0
65°	268.0	195.0	194.0	172.0	248.0
67.5°	239.0	179.0	178.0	156.0	189.0
70°	208.0	162.0	160.0	139.0	140.0
72.5°	176.0	143.0	141.0	125.0	116.0
75°	144.0	121.0	120.0	109.0	94.0
77.5°	113.0	96.0	98.0	88.0	69.0
80°	81.0	70.0	72.0	63.0	52.0
82.5°	54.0	46.0	48.0	40.0	35.0
85°	30.0	26.0	27.0	21.0	16.0
87.5°	14.0	12.0	12.0	8.0	5.0
90°	27.5	17.5	16.2	11.2	6.2
92.5°	169.2	120.4	109.8	67.3	24.9
95°	416.4	234.5	215.1	137.5	59.9
97.5°	560.9	257.6	240.5	172.0	103.5
100°	613.5	276.9	261.4	199.3	137.2
102.5°	637.7	296.3	281.8	223.9	165.9
105°	655.5	325.0	312.7	263.7	214.6
107.5°	658.9	367.4	356.0	310.2	264.5
110°	653.9	391.1	380.8	339.4	298.1



TEST NUMBER: P935914

CATALOG NUMBER: SQ4-FA-150U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	654.1	419.8	410.0	370.6	331.2
115°	660.1	462.8	453.7	417.4	381.1
117.5°	672.4	504.6	496.4	463.4	430.4
120°	682.3	528.9	521.1	490.1	459.0
122.5°	696.7	557.6	549.8	518.4	487.1
125°	716.0	594.4	587.3	558.7	530.2
127.5°	735.3	629.9	622.7	593.9	565.1
130°	749.5	653.6	645.8	614.8	583.8
132.5°	760.9	673.0	665.2	634.2	603.1
135°	773.4	695.4	688.3	660.1	631.8
137.5°	792.1	724.1	717.1	689.1	661.1
140°	803.6	743.5	737.1	711.3	685.5
142.5°	813.1	757.8	751.8	728.0	704.2
145°	825.6	779.6	774.4	753.7	732.9
147.5°	843.9	807.1	802.0	781.8	761.5
150°	853.4	821.4	816.8	798.6	780.3
152.5°	859.7	830.8	827.3	813.5	799.6
155°	873.4	851.4	848.8	838.6	828.3
157.5°	887.1	871.9	869.4	859.5	849.5
160°	893.4	881.3	879.4	871.6	863.8
162.5°	900.0	891.3	889.8	884.0	878.2
165°	909.6	905.6	904.3	899.0	893.8
167.5°	917.0	913.7	913.1	910.6	908.1
170°	923.3	923.1	922.5	920.0	917.5
172.5°	923.7	923.7	923.6	923.0	922.5
175°	927.4	929.3	929.3	929.3	929.3
177.5°	927.9	929.3	929.3	929.3	929.3
180°	929.3	929.3	929.3	929.3	929.3



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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	10.69	11.40	11.79	12.50	14.02	13.48	14.20	14.59	15.30	16.81
	3H	11.15	11.79	12.26	12.90	14.43	14.81	15.45	15.92	16.56	18.09
	4H	11.34	11.94	12.46	13.05	14.59	15.24	15.85	16.36	16.96	18.49
	6H	11.45	12.01	12.58	13.12	14.67	15.51	16.07	16.64	17.18	18.73
	8H	11.45	11.98	12.58	13.10	14.65	15.57	16.11	16.71	17.23	18.78
	12H	11.41	11.92	12.55	13.04	14.60	15.60	16.11	16.74	17.23	18.80
4H	2H	11.69	12.30	12.82	13.41	14.95	13.88	14.49	15.01	15.59	17.13
	3H	12.71	13.21	13.84	14.35	15.90	15.36	15.87	16.49	17.00	18.55
	4H	12.98	13.44	14.11	14.57	16.14	15.87	16.34	17.01	17.46	19.03
	6H	13.09	13.49	14.24	14.64	16.20	16.22	16.62	17.37	17.77	19.33
	8H	13.10	13.47	14.24	14.61	16.18	16.32	16.69	17.47	17.83	19.41
	12H	13.06	13.39	14.22	14.54	16.13	16.37	16.70	17.53	17.85	19.44
8H	4H	13.41	13.79	14.56	14.92	16.50	15.99	16.36	17.13	17.50	19.08
	6H	13.67	13.98	14.83	15.16	16.73	16.41	16.72	17.57	17.90	19.47
	8H	13.71	13.98	14.88	15.14	16.73	16.56	16.82	17.73	17.98	19.58
	12H	13.69	13.92	14.86	15.08	16.71	16.64	16.88	17.82	18.03	19.66
12H	4H	13.41	13.75	14.57	14.90	16.48	15.95	16.28	17.11	17.43	19.02
	6H	13.73	13.99	14.90	15.15	16.75	16.41	16.67	17.58	17.83	19.43
	8H	13.79	14.02	14.96	15.18	16.81	16.56	16.79	17.73	17.95	19.58