

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: P935114

Luminaire Tested: SQ4-FA-100U-075D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935114
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

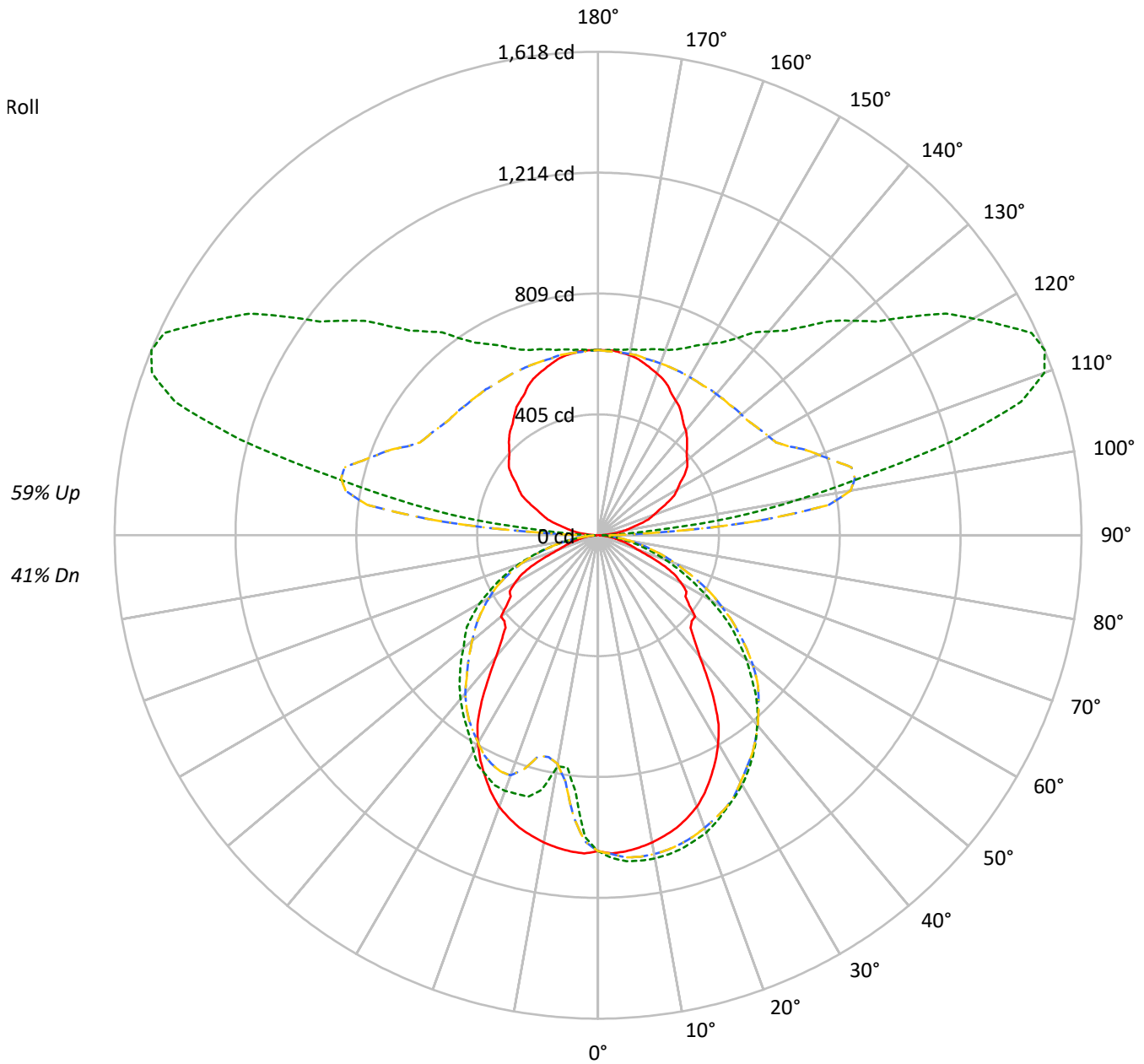
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6760.9 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 49.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	40	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	34	34	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	29	29	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	25	25	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	22	22	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	19	19	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	13	13	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	12	10

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	1.4
10°-20°	270.9	4.0
20°-30°	418.8	6.2
30°-40°	500.0	7.4
40°-50°	502.9	7.4
50°-60°	437.6	6.5
60°-70°	310.3	4.6
70°-80°	164.1	2.4
80°-90°	43.2	0.6
90°-100°	302.1	4.5
100°-110°	794.2	11.7
110°-120°	823.5	12.2
120°-130°	660.6	9.8
130°-140°	518.3	7.7
140°-150°	397.8	5.9
150°-160°	286.5	4.2
160°-170°	175.3	2.6
170°-180°	59.2	0.9
0°-30°	785.2	11.6
0°-40°	1285.2	19.0
0°-60°	2225.7	32.9
0°-90°	2743.3	40.6
90°-120°	1919.9	28.4
90°-150°	3496.6	51.7
90°-180°	4018.0	59.4
0°-180°	6760.9	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°	4	16	4	16	4	4
95°	40	183	40	183	40	44
105°	143	1244	143	1244	143	152
115°	254	1601	254	1601	254	251
125°	354	1275	354	1275	354	314
135°	421	990	421	990	421	326
145°	489	803	489	803	489	306
155°	552	691	552	691	552	254
165°	596	644	596	644	596	168
175°	620	624	620	624	620	59
180°	620	620	620	620	620	



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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°	4.2	7.5	10.8	11.6	18.3	27.2	31.6	28.1	21.1	15.8	15.8
92.5°	16.6	44.9	73.2	80.3	112.9	156.3	178.0	156.0	112.0	79.0	75.9
95°	39.9	91.7	143.5	156.4	277.7	439.4	520.3	464.3	352.3	268.3	258.8
97.5°	69.0	114.7	160.4	171.8	374.1	643.8	778.6	743.2	672.4	619.3	601.2
100°	91.5	132.9	174.3	184.7	409.2	708.5	858.1	860.7	865.8	869.7	848.1
102.5°	110.6	149.3	187.9	197.6	425.3	728.8	880.6	925.7	1015.9	1083.5	1065.0
105°	143.1	175.8	208.5	216.7	437.2	731.1	878.1	979.2	1181.4	1333.1	1323.2
107.5°	176.4	206.9	237.4	245.0	439.4	698.5	828.1	969.2	1251.3	1462.9	1465.3
110°	198.8	226.4	253.9	260.8	436.0	669.7	786.5	944.2	1259.6	1496.1	1506.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.9	247.1	273.3	279.9	436.2	644.5	748.7	910.1	1232.8	1474.9	1490.8
115°	254.1	278.3	302.5	308.6	440.2	615.7	703.4	858.9	1169.8	1403.0	1425.0
117.5°	287.0	309.0	331.0	336.5	448.4	597.6	672.2	812.5	1093.1	1303.6	1328.0
120°	306.1	326.8	347.5	352.7	455.0	591.5	659.7	787.9	1044.3	1236.6	1260.4
122.5°	324.9	345.8	366.7	371.9	464.6	588.3	650.1	765.5	996.4	1169.6	1193.0
125°	353.6	372.6	391.6	396.4	477.5	585.6	639.7	737.8	933.9	1081.0	1102.6
127.5°	376.8	396.0	415.3	420.1	490.4	584.1	631.0	715.2	883.6	1009.9	1028.1
130°	389.3	410.0	430.7	435.9	499.8	585.1	627.7	702.7	852.6	965.0	981.8
132.5°	402.2	422.9	443.6	448.8	507.4	585.6	624.7	691.8	826.0	926.7	941.8
135°	421.4	440.2	459.1	463.8	515.8	585.1	619.8	676.0	788.3	872.6	885.6
137.5°	440.9	459.6	478.2	482.9	528.2	588.7	618.9	666.4	761.4	832.7	843.3
140°	457.1	474.3	491.5	495.8	535.9	589.3	616.0	657.0	739.1	800.7	810.6
142.5°	469.6	485.5	501.4	505.4	542.3	591.4	616.0	652.0	724.1	778.2	786.8
145°	488.7	502.6	516.4	519.9	550.6	591.5	611.9	641.4	700.3	744.5	751.0
147.5°	507.9	521.4	534.8	538.2	562.8	595.5	611.9	635.1	681.5	716.3	721.7
150°	520.3	532.5	544.7	547.8	569.2	597.7	611.9	631.5	670.6	700.0	704.3
152.5°	533.2	542.4	551.7	554.0	573.3	599.0	611.9	628.6	662.0	687.1	690.4
155°	552.4	559.2	566.1	567.8	582.5	602.1	611.9	625.2	651.8	671.7	673.9
157.5°	566.5	573.2	579.8	581.5	591.6	605.1	611.9	622.2	642.9	658.4	659.9
160°	576.1	581.3	586.4	587.7	595.8	606.5	611.9	620.8	638.5	651.8	652.7
162.5°	585.6	589.5	593.4	594.4	600.2	608.0	611.9	619.4	634.3	645.5	646.3
165°	596.0	599.5	603.0	603.9	606.6	610.1	611.9	617.3	628.0	636.0	636.9
167.5°	605.6	607.3	609.0	609.4	611.6	614.5	616.0	619.5	626.5	631.8	632.2
170°	611.9	613.5	615.2	615.6	615.7	615.9	616.0	619.5	626.5	631.8	631.8
172.5°	615.2	615.6	615.9	616.0	616.0	616.0	616.0	618.8	624.3	628.5	628.2
175°	619.8	619.8	619.8	619.8	618.5	616.8	616.0	617.8	621.3	623.9	623.9
177.5°	619.8	619.8	619.8	619.8	618.8	617.5	616.8	618.2	621.0	623.1	622.7
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



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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°	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.2	18.3	11.6
92.5°	63.3	50.7	63.3	75.9	79.0	112.0	156.0	178.0	156.3	112.9	80.3
95°	220.7	182.6	220.7	258.8	268.3	352.3	464.3	520.3	439.4	277.7	156.4
97.5°	528.7	456.3	528.7	601.2	619.3	672.4	743.2	778.6	643.8	374.1	171.8
100°	761.8	675.5	761.8	848.1	869.7	865.8	860.7	858.1	708.5	409.2	184.7
102.5°	991.1	917.2	991.1	1065.0	1083.5	1015.9	925.7	880.6	728.8	425.3	197.6
105°	1283.4	1243.7	1283.4	1323.2	1333.1	1181.4	979.2	878.1	731.1	437.2	216.7
107.5°	1474.9	1484.5	1474.9	1465.3	1462.9	1251.3	969.2	828.1	698.5	439.4	245.0
110°	1547.9	1589.3	1547.9	1506.5	1496.1	1259.6	944.2	786.5	669.7	436.0	260.8



TEST NUMBER: P935114

CATALOG NUMBER: SQ4-FA-100U-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°	1554.4	1618.0	1554.4	1490.8	1474.9	1232.8	910.1	748.7	644.5	436.2	279.9
115°	1513.2	1601.4	1513.2	1425.0	1403.0	1169.8	858.9	703.4	615.7	440.2	308.6
117.5°	1425.8	1523.6	1425.8	1328.0	1303.6	1093.1	812.5	672.2	597.6	448.4	336.5
120°	1355.4	1450.4	1355.4	1260.4	1236.6	1044.3	787.9	659.7	591.5	455.0	352.7
122.5°	1286.8	1380.5	1286.8	1193.0	1169.6	996.4	765.5	650.1	588.3	464.6	371.9
125°	1188.9	1275.3	1188.9	1102.6	1081.0	933.9	737.8	639.7	585.6	477.5	396.4
127.5°	1101.0	1173.8	1101.0	1028.1	1009.9	883.6	715.2	631.0	584.1	490.4	420.1
130°	1049.1	1116.4	1049.1	981.8	965.0	852.6	702.7	627.7	585.1	499.8	435.9
132.5°	1002.0	1062.3	1002.0	941.8	926.7	826.0	691.8	624.7	585.6	507.4	448.8
135°	937.5	989.5	937.5	885.6	872.6	788.3	676.0	619.8	585.1	515.8	463.8
137.5°	885.9	928.4	885.9	843.3	832.7	761.4	666.4	618.9	588.7	528.2	482.9
140°	850.4	890.1	850.4	810.6	800.7	739.1	657.0	616.0	589.3	535.9	495.8
142.5°	821.0	855.2	821.0	786.8	778.2	724.1	652.0	616.0	591.4	542.3	505.4
145°	776.9	802.8	776.9	751.0	744.5	700.3	641.4	611.9	591.5	550.6	519.9
147.5°	743.1	764.5	743.1	721.7	716.3	681.5	635.1	611.9	595.5	562.8	538.2
150°	721.7	739.1	721.7	704.3	700.0	670.6	631.5	611.9	597.7	569.2	547.8
152.5°	703.5	716.7	703.5	690.4	687.1	662.0	628.6	611.9	599.0	573.3	554.0
155°	682.6	691.3	682.6	673.9	671.7	651.8	625.2	611.9	602.1	582.5	567.8
157.5°	666.1	672.2	666.1	659.9	658.4	642.9	622.2	611.9	605.1	591.6	581.5
160°	656.2	659.7	656.2	652.7	651.8	638.5	620.8	611.9	606.5	595.8	587.7
162.5°	649.7	653.0	649.7	646.3	645.5	634.3	619.4	611.9	608.0	600.2	594.4
165°	640.4	643.9	640.4	636.9	636.0	628.0	617.3	611.9	610.1	606.6	603.9
167.5°	633.6	635.1	633.6	632.2	631.8	626.5	619.5	616.0	614.5	611.6	609.4
170°	631.8	631.8	631.8	631.8	631.8	626.5	619.5	616.0	615.9	615.7	615.6
172.5°	626.9	625.6	626.9	628.2	628.5	624.3	618.8	616.0	616.0	616.0	616.0
175°	623.9	623.9	623.9	623.9	623.9	621.3	617.8	616.0	616.8	618.5	619.8
177.5°	621.3	619.8	621.3	622.7	623.1	621.0	618.2	616.8	617.5	618.8	619.8
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



TEST NUMBER: P935114

CATALOG NUMBER: SQ4-FA-100U-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°	10.8	7.5	4.2	7.5	10.8	11.6	18.3	27.2	31.6	28.1	21.1
92.5°	73.2	44.9	16.6	44.9	73.2	80.3	112.9	156.3	178.0	156.0	112.0
95°	143.5	91.7	39.9	91.7	143.5	156.4	277.7	439.4	520.3	464.3	352.3
97.5°	160.4	114.7	69.0	114.7	160.4	171.8	374.1	643.8	778.6	743.2	672.4
100°	174.3	132.9	91.5	132.9	174.3	184.7	409.2	708.5	858.1	860.7	865.8
102.5°	187.9	149.3	110.6	149.3	187.9	197.6	425.3	728.8	880.6	925.7	1015.9
105°	208.5	175.8	143.1	175.8	208.5	216.7	437.2	731.1	878.1	979.2	1181.4
107.5°	237.4	206.9	176.4	206.9	237.4	245.0	439.4	698.5	828.1	969.2	1251.3
110°	253.9	226.4	198.8	226.4	253.9	260.8	436.0	669.7	786.5	944.2	1259.6



TEST NUMBER: P935114

CATALOG NUMBER: SQ4-FA-100U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	273.3	247.1	220.9	247.1	273.3	279.9	436.2	644.5	748.7	910.1	1232.8
115°	302.5	278.3	254.1	278.3	302.5	308.6	440.2	615.7	703.4	858.9	1169.8
117.5°	331.0	309.0	287.0	309.0	331.0	336.5	448.4	597.6	672.2	812.5	1093.1
120°	347.5	326.8	306.1	326.8	347.5	352.7	455.0	591.5	659.7	787.9	1044.3
122.5°	366.7	345.8	324.9	345.8	366.7	371.9	464.6	588.3	650.1	765.5	996.4
125°	391.6	372.6	353.6	372.6	391.6	396.4	477.5	585.6	639.7	737.8	933.9
127.5°	415.3	396.0	376.8	396.0	415.3	420.1	490.4	584.1	631.0	715.2	883.6
130°	430.7	410.0	389.3	410.0	430.7	435.9	499.8	585.1	627.7	702.7	852.6
132.5°	443.6	422.9	402.2	422.9	443.6	448.8	507.4	585.6	624.7	691.8	826.0
135°	459.1	440.2	421.4	440.2	459.1	463.8	515.8	585.1	619.8	676.0	788.3
137.5°	478.2	459.6	440.9	459.6	478.2	482.9	528.2	588.7	618.9	666.4	761.4
140°	491.5	474.3	457.1	474.3	491.5	495.8	535.9	589.3	616.0	657.0	739.1
142.5°	501.4	485.5	469.6	485.5	501.4	505.4	542.3	591.4	616.0	652.0	724.1
145°	516.4	502.6	488.7	502.6	516.4	519.9	550.6	591.5	611.9	641.4	700.3
147.5°	534.8	521.4	507.9	521.4	534.8	538.2	562.8	595.5	611.9	635.1	681.5
150°	544.7	532.5	520.3	532.5	544.7	547.8	569.2	597.7	611.9	631.5	670.6
152.5°	551.7	542.4	533.2	542.4	551.7	554.0	573.3	599.0	611.9	628.6	662.0
155°	566.1	559.2	552.4	559.2	566.1	567.8	582.5	602.1	611.9	625.2	651.8
157.5°	579.8	573.2	566.5	573.2	579.8	581.5	591.6	605.1	611.9	622.2	642.9
160°	586.4	581.3	576.1	581.3	586.4	587.7	595.8	606.5	611.9	620.8	638.5
162.5°	593.4	589.5	585.6	589.5	593.4	594.4	600.2	608.0	611.9	619.4	634.3
165°	603.0	599.5	596.0	599.5	603.0	603.9	606.6	610.1	611.9	617.3	628.0
167.5°	609.0	607.3	605.6	607.3	609.0	609.4	611.6	614.5	616.0	619.5	626.5
170°	615.2	613.5	611.9	613.5	615.2	615.6	615.7	615.9	616.0	619.5	626.5
172.5°	615.9	615.6	615.2	615.6	615.9	616.0	616.0	616.0	616.0	618.8	624.3
175°	619.8	619.8	619.8	619.8	619.8	619.8	618.5	616.8	616.0	617.8	621.3
177.5°	619.8	619.8	619.8	619.8	619.8	619.8	618.8	617.5	616.8	618.2	621.0
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



TEST NUMBER: P935114

CATALOG NUMBER: SQ4-FA-100U-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°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.2
92.5°	79.0	75.9	63.3	50.7	63.3	75.9	79.0	112.0	156.0	178.0	156.3
95°	268.3	258.8	220.7	182.6	220.7	258.8	268.3	352.3	464.3	520.3	439.4
97.5°	619.3	601.2	528.7	456.3	528.7	601.2	619.3	672.4	743.2	778.6	643.8
100°	869.7	848.1	761.8	675.5	761.8	848.1	869.7	865.8	860.7	858.1	708.5
102.5°	1083.5	1065.0	991.1	917.2	991.1	1065.0	1083.5	1015.9	925.7	880.6	728.8
105°	1333.1	1323.2	1283.4	1243.7	1283.4	1323.2	1333.1	1181.4	979.2	878.1	731.1
107.5°	1462.9	1465.3	1474.9	1484.5	1474.9	1465.3	1462.9	1251.3	969.2	828.1	698.5
110°	1496.1	1506.5	1547.9	1589.3	1547.9	1506.5	1496.1	1259.6	944.2	786.5	669.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1474.9	1490.8	1554.4	1618.0	1554.4	1490.8	1474.9	1232.8	910.1	748.7	644.5
115°	1403.0	1425.0	1513.2	1601.4	1513.2	1425.0	1403.0	1169.8	858.9	703.4	615.7
117.5°	1303.6	1328.0	1425.8	1523.6	1425.8	1328.0	1303.6	1093.1	812.5	672.2	597.6
120°	1236.6	1260.4	1355.4	1450.4	1355.4	1260.4	1236.6	1044.3	787.9	659.7	591.5
122.5°	1169.6	1193.0	1286.8	1380.5	1286.8	1193.0	1169.6	996.4	765.5	650.1	588.3
125°	1081.0	1102.6	1188.9	1275.3	1188.9	1102.6	1081.0	933.9	737.8	639.7	585.6
127.5°	1009.9	1028.1	1101.0	1173.8	1101.0	1028.1	1009.9	883.6	715.2	631.0	584.1
130°	965.0	981.8	1049.1	1116.4	1049.1	981.8	965.0	852.6	702.7	627.7	585.1
132.5°	926.7	941.8	1002.0	1062.3	1002.0	941.8	926.7	826.0	691.8	624.7	585.6
135°	872.6	885.6	937.5	989.5	937.5	885.6	872.6	788.3	676.0	619.8	585.1
137.5°	832.7	843.3	885.9	928.4	885.9	843.3	832.7	761.4	666.4	618.9	588.7
140°	800.7	810.6	850.4	890.1	850.4	810.6	800.7	739.1	657.0	616.0	589.3
142.5°	778.2	786.8	821.0	855.2	821.0	786.8	778.2	724.1	652.0	616.0	591.4
145°	744.5	751.0	776.9	802.8	776.9	751.0	744.5	700.3	641.4	611.9	591.5
147.5°	716.3	721.7	743.1	764.5	743.1	721.7	716.3	681.5	635.1	611.9	595.5
150°	700.0	704.3	721.7	739.1	721.7	704.3	700.0	670.6	631.5	611.9	597.7
152.5°	687.1	690.4	703.5	716.7	703.5	690.4	687.1	662.0	628.6	611.9	599.0
155°	671.7	673.9	682.6	691.3	682.6	673.9	671.7	651.8	625.2	611.9	602.1
157.5°	658.4	659.9	666.1	672.2	666.1	659.9	658.4	642.9	622.2	611.9	605.1
160°	651.8	652.7	656.2	659.7	656.2	652.7	651.8	638.5	620.8	611.9	606.5
162.5°	645.5	646.3	649.7	653.0	649.7	646.3	645.5	634.3	619.4	611.9	608.0
165°	636.0	636.9	640.4	643.9	640.4	636.9	636.0	628.0	617.3	611.9	610.1
167.5°	631.8	632.2	633.6	635.1	633.6	632.2	631.8	626.5	619.5	616.0	614.5
170°	631.8	631.8	631.8	631.8	631.8	631.8	631.8	626.5	619.5	616.0	615.9
172.5°	628.5	628.2	626.9	625.6	626.9	628.2	628.5	624.3	618.8	616.0	616.0
175°	623.9	623.9	623.9	623.9	623.9	623.9	623.9	621.3	617.8	616.0	616.8
177.5°	623.1	622.7	621.3	619.8	621.3	622.7	623.1	621.0	618.2	616.8	617.5
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



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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°	18.3	11.6	10.8	7.5	4.2
92.5°	112.9	80.3	73.2	44.9	16.6
95°	277.7	156.4	143.5	91.7	39.9
97.5°	374.1	171.8	160.4	114.7	69.0
100°	409.2	184.7	174.3	132.9	91.5
102.5°	425.3	197.6	187.9	149.3	110.6
105°	437.2	216.7	208.5	175.8	143.1
107.5°	439.4	245.0	237.4	206.9	176.4
110°	436.0	260.8	253.9	226.4	198.8



TEST NUMBER: P935114

CATALOG NUMBER: SQ4-FA-100U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	436.2	279.9	273.3	247.1	220.9
115°	440.2	308.6	302.5	278.3	254.1
117.5°	448.4	336.5	331.0	309.0	287.0
120°	455.0	352.7	347.5	326.8	306.1
122.5°	464.6	371.9	366.7	345.8	324.9
125°	477.5	396.4	391.6	372.6	353.6
127.5°	490.4	420.1	415.3	396.0	376.8
130°	499.8	435.9	430.7	410.0	389.3
132.5°	507.4	448.8	443.6	422.9	402.2
135°	515.8	463.8	459.1	440.2	421.4
137.5°	528.2	482.9	478.2	459.6	440.9
140°	535.9	495.8	491.5	474.3	457.1
142.5°	542.3	505.4	501.4	485.5	469.6
145°	550.6	519.9	516.4	502.6	488.7
147.5°	562.8	538.2	534.8	521.4	507.9
150°	569.2	547.8	544.7	532.5	520.3
152.5°	573.3	554.0	551.7	542.4	533.2
155°	582.5	567.8	566.1	559.2	552.4
157.5°	591.6	581.5	579.8	573.2	566.5
160°	595.8	587.7	586.4	581.3	576.1
162.5°	600.2	594.4	593.4	589.5	585.6
165°	606.6	603.9	603.0	599.5	596.0
167.5°	611.6	609.4	609.0	607.3	605.6
170°	615.7	615.6	615.2	613.5	611.9
172.5°	616.0	616.0	615.9	615.6	615.2
175°	618.5	619.8	619.8	619.8	619.8
177.5°	618.8	619.8	619.8	619.8	619.8
180°	619.8	619.8	619.8	619.8	619.8



TEST NUMBER: P935114
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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	11.79	12.57	12.82	13.61	15.01	14.59	15.37	15.62	16.41	17.81
	3H	12.26	12.96	13.30	14.01	15.43	15.91	16.62	16.96	17.67	19.08
	4H	12.45	13.11	13.50	14.16	15.59	16.35	17.01	17.40	18.06	19.49
	6H	12.56	13.17	13.63	14.23	15.67	16.62	17.23	17.69	18.29	19.73
	8H	12.56	13.14	13.63	14.21	15.65	16.69	17.27	17.76	18.34	19.78
	12H	12.53	13.08	13.60	14.15	15.60	16.72	17.27	17.80	18.34	19.80
4H	2H	12.80	13.47	13.87	14.52	15.95	14.99	15.65	16.05	16.70	18.13
	3H	13.82	14.38	14.89	15.45	16.89	16.48	17.03	17.55	18.11	19.55
	4H	14.09	14.60	15.17	15.67	17.13	16.99	17.50	18.07	18.57	20.03
	6H	14.22	14.65	15.30	15.74	17.20	17.35	17.78	18.43	18.87	20.33
	8H	14.22	14.63	15.31	15.71	17.18	17.45	17.85	18.53	18.94	20.41
	12H	14.18	14.55	15.29	15.65	17.13	17.49	17.86	18.60	18.96	20.44
8H	4H	14.54	14.94	15.62	16.03	17.50	17.11	17.52	18.20	18.60	20.08
	6H	14.80	15.13	15.90	16.26	17.73	17.54	17.87	18.64	19.00	20.47
	8H	14.84	15.13	15.95	16.24	17.73	17.68	17.98	18.80	19.09	20.57
	12H	14.82	15.08	15.94	16.18	17.71	17.77	18.03	18.89	19.14	20.66
12H	4H	14.54	14.91	15.64	16.01	17.48	17.07	17.44	18.18	18.54	20.02
	6H	14.85	15.15	15.97	16.26	17.75	17.53	17.83	18.65	18.94	20.43
	8H	14.92	15.18	16.04	16.28	17.81	17.69	17.95	18.80	19.05	20.58