

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: P933914

Luminaire Tested: SQ4-FA-025U-075D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933914
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

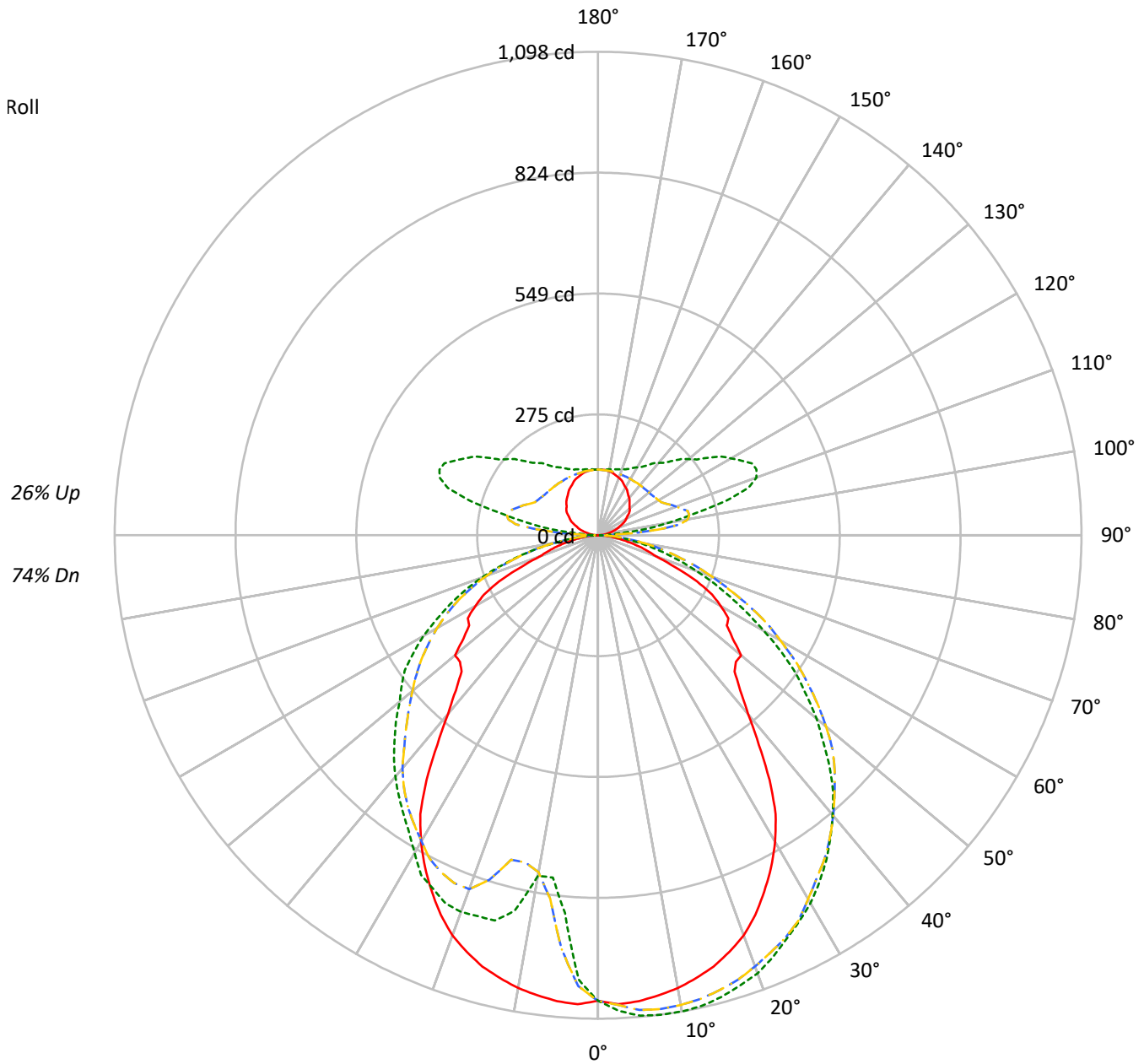
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3708.9 lumens
Efficiency: N/A
Efficacy: 123.6 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): 30
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

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	2.6
10°-20°	270.9	7.3
20°-30°	418.8	11.3
30°-40°	500.0	13.5
40°-50°	502.9	13.6
50°-60°	437.6	11.8
60°-70°	310.3	8.4
70°-80°	164.1	4.4
80°-90°	41.4	1.1
90°-100°	72.7	2.0
100°-110°	191.3	5.2
110°-120°	198.3	5.3
120°-130°	159.0	4.3
130°-140°	124.8	3.4
140°-150°	95.8	2.6
150°-160°	69.0	1.9
160°-170°	42.2	1.1
170°-180°	14.3	0.4
0°-30°	785.2	21.2
0°-40°	1285.2	34.7
0°-60°	2225.7	60.0
0°-90°	2741.5	73.9
90°-120°	462.3	12.5
90°-150°	842.0	22.7
90°-180°	967.0	26.1
0°-180°	3708.9	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°	1	4	1	4	1	2
95°	10	44	10	44	10	11
105°	34	300	34	300	34	37
115°	61	386	61	386	61	60
125°	85	307	85	307	85	76
135°	102	238	102	238	102	79
145°	118	193	118	193	118	74
155°	133	166	133	166	133	61
165°	144	155	144	155	144	40
175°	149	150	149	150	149	14
180°	149	149	149	149	149	



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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°	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1	3.8	3.8
92.5°	4.0	10.8	17.6	19.3	27.2	37.7	42.9	37.6	27.0	19.0	18.2
95°	9.6	22.1	34.6	37.7	66.9	105.8	125.3	111.8	84.8	64.6	62.3
97.5°	16.6	27.6	38.6	41.4	90.1	155.0	187.5	179.0	161.9	149.1	144.7
100°	22.0	32.0	42.0	44.5	98.5	170.6	206.6	207.2	208.5	209.4	204.2
102.5°	26.6	35.9	45.3	47.6	102.4	175.5	212.0	222.9	244.6	260.9	256.4
105°	34.5	42.4	50.2	52.2	105.3	176.0	211.4	235.8	284.5	321.0	318.6
107.5°	42.5	49.8	57.2	59.0	105.8	168.2	199.4	233.4	301.3	352.3	352.9
110°	47.9	54.5	61.1	62.8	105.0	161.3	189.4	227.4	303.3	360.3	362.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	53.2	59.5	65.8	67.4	105.0	155.2	180.3	219.2	296.9	355.2	359.0
115°	61.2	67.0	72.8	74.3	106.0	148.3	169.4	206.8	281.7	337.8	343.1
117.5°	69.1	74.4	79.7	81.0	108.0	143.9	161.9	195.7	263.2	313.9	319.8
120°	73.7	78.7	83.7	84.9	109.5	142.4	158.8	189.7	251.5	297.8	303.5
122.5°	78.2	83.2	88.2	89.5	111.8	141.6	156.5	184.3	239.9	281.6	287.2
125°	85.1	89.7	94.3	95.5	115.0	141.0	154.0	177.6	224.9	260.3	265.5
127.5°	90.7	95.4	100.0	101.2	118.1	140.6	151.9	172.2	212.8	243.2	247.6
130°	93.7	98.7	103.7	105.0	120.4	140.9	151.1	169.2	205.3	232.4	236.4
132.5°	96.9	101.9	106.9	108.1	122.2	141.0	150.4	166.6	198.9	223.2	226.8
135°	101.5	106.0	110.6	111.7	124.2	140.9	149.2	162.7	189.8	210.1	213.2
137.5°	106.2	110.7	115.2	116.3	127.2	141.7	149.0	160.4	183.3	200.5	203.1
140°	110.1	114.2	118.4	119.4	129.0	141.9	148.3	158.2	178.0	192.8	195.2
142.5°	113.1	116.9	120.7	121.7	130.6	142.4	148.3	157.0	174.4	187.4	189.5
145°	117.7	121.0	124.4	125.2	132.6	142.4	147.3	154.4	168.6	179.3	180.9
147.5°	122.3	125.5	128.8	129.6	135.5	143.4	147.3	152.9	164.1	172.5	173.8
150°	125.3	128.2	131.2	131.9	137.0	143.9	147.3	152.0	161.5	168.6	169.6
152.5°	128.4	130.6	132.8	133.4	138.0	144.2	147.3	151.3	159.4	165.5	166.3
155°	133.0	134.6	136.3	136.7	140.2	144.9	147.3	150.5	157.0	161.8	162.3
157.5°	136.4	138.0	139.6	140.0	142.4	145.7	147.3	149.8	154.8	158.5	158.9
160°	138.7	139.9	141.2	141.5	143.4	146.0	147.3	149.4	153.7	156.9	157.1
162.5°	141.0	141.9	142.9	143.1	144.5	146.4	147.3	149.1	152.7	155.4	155.6
165°	143.5	144.3	145.2	145.4	146.0	146.9	147.3	148.6	151.2	153.1	153.3
167.5°	145.8	146.2	146.6	146.7	147.2	147.9	148.3	149.1	150.8	152.1	152.2
170°	147.3	147.7	148.1	148.2	148.2	148.3	148.3	149.1	150.8	152.1	152.1
172.5°	148.1	148.2	148.3	148.3	148.3	148.3	148.3	149.0	150.3	151.3	151.2
175°	149.2	149.2	149.2	149.2	148.9	148.5	148.3	148.7	149.6	150.2	150.2
177.5°	149.2	149.2	149.2	149.2	149.0	148.7	148.5	148.8	149.5	150.0	149.9
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



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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°	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5	4.4	2.8
92.5°	15.2	12.2	15.2	18.2	19.0	27.0	37.6	42.9	37.7	27.2	19.3
95°	53.2	44.0	53.2	62.3	64.6	84.8	111.8	125.3	105.8	66.9	37.7
97.5°	127.3	109.9	127.3	144.7	149.1	161.9	179.0	187.5	155.0	90.1	41.4
100°	183.5	162.7	183.5	204.2	209.4	208.5	207.2	206.6	170.6	98.5	44.5
102.5°	238.6	220.8	238.6	256.4	260.9	244.6	222.9	212.0	175.5	102.4	47.6
105°	309.1	299.5	309.1	318.6	321.0	284.5	235.8	211.4	176.0	105.3	52.2
107.5°	355.2	357.5	355.2	352.9	352.3	301.3	233.4	199.4	168.2	105.8	59.0
110°	372.7	382.7	372.7	362.8	360.3	303.3	227.4	189.4	161.3	105.0	62.8



TEST NUMBER: P933914

CATALOG NUMBER: SQ4-FA-025U-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°	374.3	389.6	374.3	359.0	355.2	296.9	219.2	180.3	155.2	105.0	67.4
115°	364.4	385.6	364.4	343.1	337.8	281.7	206.8	169.4	148.3	106.0	74.3
117.5°	343.3	366.9	343.3	319.8	313.9	263.2	195.7	161.9	143.9	108.0	81.0
120°	326.4	349.2	326.4	303.5	297.8	251.5	189.7	158.8	142.4	109.5	84.9
122.5°	309.8	332.4	309.8	287.2	281.6	239.9	184.3	156.5	141.6	111.8	89.5
125°	286.3	307.1	286.3	265.5	260.3	224.9	177.6	154.0	141.0	115.0	95.5
127.5°	265.1	282.6	265.1	247.6	243.2	212.8	172.2	151.9	140.6	118.1	101.2
130°	252.6	268.8	252.6	236.4	232.4	205.3	169.2	151.1	140.9	120.4	105.0
132.5°	241.3	255.8	241.3	226.8	223.2	198.9	166.6	150.4	141.0	122.2	108.1
135°	225.8	238.3	225.8	213.2	210.1	189.8	162.7	149.2	140.9	124.2	111.7
137.5°	213.3	223.6	213.3	203.1	200.5	183.3	160.4	149.0	141.7	127.2	116.3
140°	204.7	214.3	204.7	195.2	192.8	178.0	158.2	148.3	141.9	129.0	119.4
142.5°	197.7	205.9	197.7	189.5	187.4	174.4	157.0	148.3	142.4	130.6	121.7
145°	187.1	193.3	187.1	180.9	179.3	168.6	154.4	147.3	142.4	132.6	125.2
147.5°	178.9	184.1	178.9	173.8	172.5	164.1	152.9	147.3	143.4	135.5	129.6
150°	173.8	178.0	173.8	169.6	168.6	161.5	152.0	147.3	143.9	137.0	131.9
152.5°	169.4	172.6	169.4	166.3	165.5	159.4	151.3	147.3	144.2	138.0	133.4
155°	164.4	166.5	164.4	162.3	161.8	157.0	150.5	147.3	144.9	140.2	136.7
157.5°	160.4	161.9	160.4	158.9	158.5	154.8	149.8	147.3	145.7	142.4	140.0
160°	158.0	158.8	158.0	157.1	156.9	153.7	149.4	147.3	146.0	143.4	141.5
162.5°	156.4	157.2	156.4	155.6	155.4	152.7	149.1	147.3	146.4	144.5	143.1
165°	154.2	155.0	154.2	153.3	153.1	151.2	148.6	147.3	146.9	146.0	145.4
167.5°	152.5	152.9	152.5	152.2	152.1	150.8	149.1	148.3	147.9	147.2	146.7
170°	152.1	152.1	152.1	152.1	152.1	150.8	149.1	148.3	148.3	148.2	148.2
172.5°	150.9	150.6	150.9	151.2	151.3	150.3	149.0	148.3	148.3	148.3	148.3
175°	150.2	150.2	150.2	150.2	150.2	149.6	148.7	148.3	148.5	148.9	149.2
177.5°	149.6	149.2	149.6	149.9	150.0	149.5	148.8	148.5	148.7	149.0	149.2
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



TEST NUMBER: P933914

CATALOG NUMBER: SQ4-FA-025U-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°	2.6	1.8	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1
92.5°	17.6	10.8	4.0	10.8	17.6	19.3	27.2	37.7	42.9	37.6	27.0
95°	34.6	22.1	9.6	22.1	34.6	37.7	66.9	105.8	125.3	111.8	84.8
97.5°	38.6	27.6	16.6	27.6	38.6	41.4	90.1	155.0	187.5	179.0	161.9
100°	42.0	32.0	22.0	32.0	42.0	44.5	98.5	170.6	206.6	207.2	208.5
102.5°	45.3	35.9	26.6	35.9	45.3	47.6	102.4	175.5	212.0	222.9	244.6
105°	50.2	42.4	34.5	42.4	50.2	52.2	105.3	176.0	211.4	235.8	284.5
107.5°	57.2	49.8	42.5	49.8	57.2	59.0	105.8	168.2	199.4	233.4	301.3
110°	61.1	54.5	47.9	54.5	61.1	62.8	105.0	161.3	189.4	227.4	303.3



TEST NUMBER: P933914

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	65.8	59.5	53.2	59.5	65.8	67.4	105.0	155.2	180.3	219.2	296.9
115°	72.8	67.0	61.2	67.0	72.8	74.3	106.0	148.3	169.4	206.8	281.7
117.5°	79.7	74.4	69.1	74.4	79.7	81.0	108.0	143.9	161.9	195.7	263.2
120°	83.7	78.7	73.7	78.7	83.7	84.9	109.5	142.4	158.8	189.7	251.5
122.5°	88.2	83.2	78.2	83.2	88.2	89.5	111.8	141.6	156.5	184.3	239.9
125°	94.3	89.7	85.1	89.7	94.3	95.5	115.0	141.0	154.0	177.6	224.9
127.5°	100.0	95.4	90.7	95.4	100.0	101.2	118.1	140.6	151.9	172.2	212.8
130°	103.7	98.7	93.7	98.7	103.7	105.0	120.4	140.9	151.1	169.2	205.3
132.5°	106.9	101.9	96.9	101.9	106.9	108.1	122.2	141.0	150.4	166.6	198.9
135°	110.6	106.0	101.5	106.0	110.6	111.7	124.2	140.9	149.2	162.7	189.8
137.5°	115.2	110.7	106.2	110.7	115.2	116.3	127.2	141.7	149.0	160.4	183.3
140°	118.4	114.2	110.1	114.2	118.4	119.4	129.0	141.9	148.3	158.2	178.0
142.5°	120.7	116.9	113.1	116.9	120.7	121.7	130.6	142.4	148.3	157.0	174.4
145°	124.4	121.0	117.7	121.0	124.4	125.2	132.6	142.4	147.3	154.4	168.6
147.5°	128.8	125.5	122.3	125.5	128.8	129.6	135.5	143.4	147.3	152.9	164.1
150°	131.2	128.2	125.3	128.2	131.2	131.9	137.0	143.9	147.3	152.0	161.5
152.5°	132.8	130.6	128.4	130.6	132.8	133.4	138.0	144.2	147.3	151.3	159.4
155°	136.3	134.6	133.0	134.6	136.3	136.7	140.2	144.9	147.3	150.5	157.0
157.5°	139.6	138.0	136.4	138.0	139.6	140.0	142.4	145.7	147.3	149.8	154.8
160°	141.2	139.9	138.7	139.9	141.2	141.5	143.4	146.0	147.3	149.4	153.7
162.5°	142.9	141.9	141.0	141.9	142.9	143.1	144.5	146.4	147.3	149.1	152.7
165°	145.2	144.3	143.5	144.3	145.2	145.4	146.0	146.9	147.3	148.6	151.2
167.5°	146.6	146.2	145.8	146.2	146.6	146.7	147.2	147.9	148.3	149.1	150.8
170°	148.1	147.7	147.3	147.7	148.1	148.2	148.2	148.3	148.3	149.1	150.8
172.5°	148.3	148.2	148.1	148.2	148.3	148.3	148.3	148.3	148.3	149.0	150.3
175°	149.2	149.2	149.2	149.2	149.2	149.2	148.9	148.5	148.3	148.7	149.6
177.5°	149.2	149.2	149.2	149.2	149.2	149.2	149.0	148.7	148.5	148.8	149.5
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



TEST NUMBER: P933914

CATALOG NUMBER: SQ4-FA-025U-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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5
92.5°	19.0	18.2	15.2	12.2	15.2	18.2	19.0	27.0	37.6	42.9	37.7
95°	64.6	62.3	53.2	44.0	53.2	62.3	64.6	84.8	111.8	125.3	105.8
97.5°	149.1	144.7	127.3	109.9	127.3	144.7	149.1	161.9	179.0	187.5	155.0
100°	209.4	204.2	183.5	162.7	183.5	204.2	209.4	208.5	207.2	206.6	170.6
102.5°	260.9	256.4	238.6	220.8	238.6	256.4	260.9	244.6	222.9	212.0	175.5
105°	321.0	318.6	309.1	299.5	309.1	318.6	321.0	284.5	235.8	211.4	176.0
107.5°	352.3	352.9	355.2	357.5	355.2	352.9	352.3	301.3	233.4	199.4	168.2
110°	360.3	362.8	372.7	382.7	372.7	362.8	360.3	303.3	227.4	189.4	161.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	355.2	359.0	374.3	389.6	374.3	359.0	355.2	296.9	219.2	180.3	155.2
115°	337.8	343.1	364.4	385.6	364.4	343.1	337.8	281.7	206.8	169.4	148.3
117.5°	313.9	319.8	343.3	366.9	343.3	319.8	313.9	263.2	195.7	161.9	143.9
120°	297.8	303.5	326.4	349.2	326.4	303.5	297.8	251.5	189.7	158.8	142.4
122.5°	281.6	287.2	309.8	332.4	309.8	287.2	281.6	239.9	184.3	156.5	141.6
125°	260.3	265.5	286.3	307.1	286.3	265.5	260.3	224.9	177.6	154.0	141.0
127.5°	243.2	247.6	265.1	282.6	265.1	247.6	243.2	212.8	172.2	151.9	140.6
130°	232.4	236.4	252.6	268.8	252.6	236.4	232.4	205.3	169.2	151.1	140.9
132.5°	223.2	226.8	241.3	255.8	241.3	226.8	223.2	198.9	166.6	150.4	141.0
135°	210.1	213.2	225.8	238.3	225.8	213.2	210.1	189.8	162.7	149.2	140.9
137.5°	200.5	203.1	213.3	223.6	213.3	203.1	200.5	183.3	160.4	149.0	141.7
140°	192.8	195.2	204.7	214.3	204.7	195.2	192.8	178.0	158.2	148.3	141.9
142.5°	187.4	189.5	197.7	205.9	197.7	189.5	187.4	174.4	157.0	148.3	142.4
145°	179.3	180.9	187.1	193.3	187.1	180.9	179.3	168.6	154.4	147.3	142.4
147.5°	172.5	173.8	178.9	184.1	178.9	173.8	172.5	164.1	152.9	147.3	143.4
150°	168.6	169.6	173.8	178.0	173.8	169.6	168.6	161.5	152.0	147.3	143.9
152.5°	165.5	166.3	169.4	172.6	169.4	166.3	165.5	159.4	151.3	147.3	144.2
155°	161.8	162.3	164.4	166.5	164.4	162.3	161.8	157.0	150.5	147.3	144.9
157.5°	158.5	158.9	160.4	161.9	160.4	158.9	158.5	154.8	149.8	147.3	145.7
160°	156.9	157.1	158.0	158.8	158.0	157.1	156.9	153.7	149.4	147.3	146.0
162.5°	155.4	155.6	156.4	157.2	156.4	155.6	155.4	152.7	149.1	147.3	146.4
165°	153.1	153.3	154.2	155.0	154.2	153.3	153.1	151.2	148.6	147.3	146.9
167.5°	152.1	152.2	152.5	152.9	152.5	152.2	152.1	150.8	149.1	148.3	147.9
170°	152.1	152.1	152.1	152.1	152.1	152.1	152.1	150.8	149.1	148.3	148.3
172.5°	151.3	151.2	150.9	150.6	150.9	151.2	151.3	150.3	149.0	148.3	148.3
175°	150.2	150.2	150.2	150.2	150.2	150.2	150.2	149.6	148.7	148.3	148.5
177.5°	150.0	149.9	149.6	149.2	149.6	149.9	150.0	149.5	148.8	148.5	148.7
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



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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°	4.4	2.8	2.6	1.8	1.0
92.5°	27.2	19.3	17.6	10.8	4.0
95°	66.9	37.7	34.6	22.1	9.6
97.5°	90.1	41.4	38.6	27.6	16.6
100°	98.5	44.5	42.0	32.0	22.0
102.5°	102.4	47.6	45.3	35.9	26.6
105°	105.3	52.2	50.2	42.4	34.5
107.5°	105.8	59.0	57.2	49.8	42.5
110°	105.0	62.8	61.1	54.5	47.9



TEST NUMBER: P933914

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	105.0	67.4	65.8	59.5	53.2
115°	106.0	74.3	72.8	67.0	61.2
117.5°	108.0	81.0	79.7	74.4	69.1
120°	109.5	84.9	83.7	78.7	73.7
122.5°	111.8	89.5	88.2	83.2	78.2
125°	115.0	95.5	94.3	89.7	85.1
127.5°	118.1	101.2	100.0	95.4	90.7
130°	120.4	105.0	103.7	98.7	93.7
132.5°	122.2	108.1	106.9	101.9	96.9
135°	124.2	111.7	110.6	106.0	101.5
137.5°	127.2	116.3	115.2	110.7	106.2
140°	129.0	119.4	118.4	114.2	110.1
142.5°	130.6	121.7	120.7	116.9	113.1
145°	132.6	125.2	124.4	121.0	117.7
147.5°	135.5	129.6	128.8	125.5	122.3
150°	137.0	131.9	131.2	128.2	125.3
152.5°	138.0	133.4	132.8	130.6	128.4
155°	140.2	136.7	136.3	134.6	133.0
157.5°	142.4	140.0	139.6	138.0	136.4
160°	143.4	141.5	141.2	139.9	138.7
162.5°	144.5	143.1	142.9	141.9	141.0
165°	146.0	145.4	145.2	144.3	143.5
167.5°	147.2	146.7	146.6	146.2	145.8
170°	148.2	148.2	148.1	147.7	147.3
172.5°	148.3	148.3	148.3	148.2	148.1
175°	148.9	149.2	149.2	149.2	149.2
177.5°	149.0	149.2	149.2	149.2	149.2
180°	149.2	149.2	149.2	149.2	149.2



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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	14.69	15.82	15.41	16.56	17.44	17.49	18.62	18.21	19.36	20.24
	3H	15.19	16.20	15.92	16.95	17.87	18.84	19.86	19.58	20.61	21.52
	4H	15.39	16.35	16.15	17.11	18.03	19.29	20.25	20.05	21.01	21.94
	6H	15.53	16.41	16.29	17.18	18.12	19.59	20.47	20.35	21.24	22.18
	8H	15.53	16.37	16.31	17.16	18.11	19.66	20.50	20.44	21.29	22.23
	12H	15.51	16.31	16.30	17.10	18.07	19.71	20.51	20.49	21.29	22.26
4H	2H	15.75	16.70	16.51	17.46	18.39	17.93	18.89	18.69	19.65	20.58
	3H	16.80	17.60	17.57	18.39	19.34	19.45	20.25	20.22	21.04	21.99
	4H	17.09	17.81	17.87	18.61	19.58	19.98	20.71	20.77	21.50	22.48
	6H	17.23	17.85	18.03	18.67	19.65	20.36	20.98	21.16	21.80	22.78
	8H	17.24	17.82	18.05	18.64	19.63	20.47	21.05	21.27	21.87	22.86
	12H	17.22	17.75	18.05	18.58	19.58	20.53	21.06	21.36	21.89	22.89
8H	4H	17.56	18.14	18.36	18.96	19.95	20.13	20.72	20.94	21.53	22.52
	6H	17.83	18.31	18.66	19.17	20.17	20.57	21.05	21.41	21.91	22.91
	8H	17.87	18.30	18.72	19.16	20.17	20.72	21.15	21.57	22.01	23.02
	12H	17.87	18.25	18.72	19.10	20.16	20.82	21.20	21.67	22.05	23.12
12H	4H	17.57	18.10	18.40	18.94	19.94	20.11	20.63	20.93	21.47	22.47
	6H	17.89	18.32	18.74	19.18	20.19	20.57	21.00	21.42	21.86	22.87
	8H	17.97	18.35	18.82	19.20	20.26	20.74	21.12	21.59	21.97	23.03