

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: P934714

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

Issue Date: 12/17/2024

**Test Information**

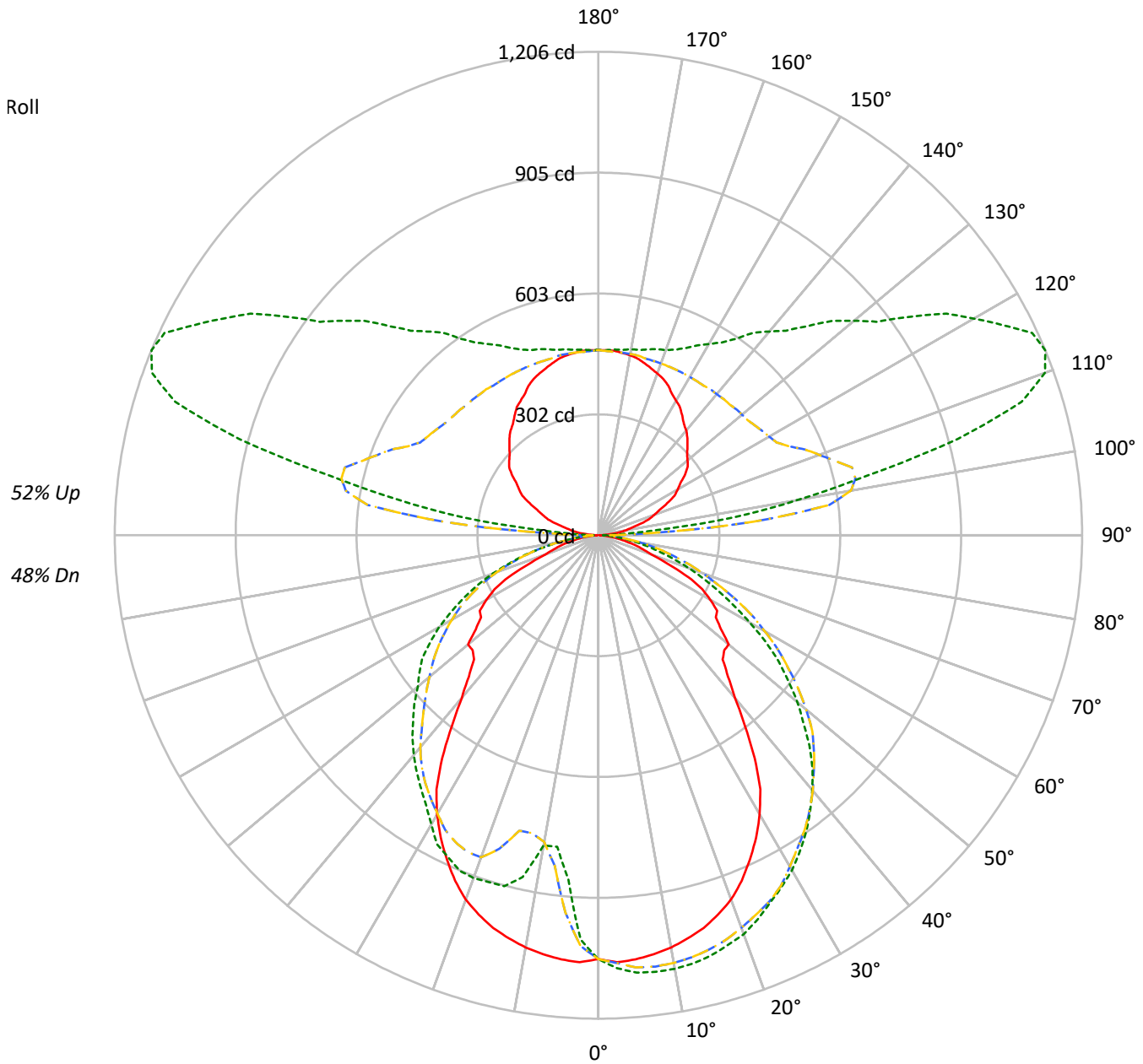
Test Method: LM-79-2019  
Report Number: P934714  
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5737.0 lumens  
Efficiency: N/A  
Efficacy: 135.3 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): 42.4  
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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CATALOG NUMBER: SQ4-FA-075U-075D-835-1D-UNV-STD-W-4

### 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				
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.4	1.7
10°-20°	270.9	4.7
20°-30°	418.8	7.3
30°-40°	500.0	8.7
40°-50°	502.9	8.8
50°-60°	437.6	7.6
60°-70°	310.3	5.4
70°-80°	164.1	2.9
80°-90°	42.6	0.7
90°-100°	225.2	3.9
100°-110°	591.9	10.3
110°-120°	613.8	10.7
120°-130°	492.3	8.6
130°-140°	386.3	6.7
140°-150°	296.5	5.2
150°-160°	213.5	3.7
160°-170°	130.6	2.3
170°-180°	44.1	0.8
0°-30°	785.2	13.7
0°-40°	1285.2	22.4
0°-60°	2225.7	38.8
0°-90°	2742.7	47.8
90°-120°	1430.8	24.9
90°-150°	2606.0	45.4
90°-180°	2994.0	52.2
0°-180°	5737.0	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°	3	12	3	12	3	3
95°	30	136	30	136	30	33
105°	107	927	107	927	107	113
115°	189	1194	189	1194	189	187
125°	264	950	264	950	264	234
135°	314	738	314	738	314	243
145°	364	598	364	598	364	228
155°	412	515	412	515	412	189
165°	444	480	444	480	444	125
175°	462	465	462	465	462	44
180°	462	462	462	462	462	



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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°	3.1	5.6	8.1	8.7	13.7	20.3	23.6	21.0	15.7	11.8	11.8
92.5°	12.4	33.5	54.5	59.8	84.1	116.5	132.7	116.3	83.5	58.9	56.6
95°	29.8	68.4	107.0	116.6	207.0	327.5	387.8	346.0	262.5	199.9	192.8
97.5°	51.5	85.5	119.5	128.0	278.8	479.8	580.3	553.9	501.2	461.6	448.1
100°	68.2	99.0	129.9	137.6	304.9	528.0	639.5	641.4	645.3	648.2	632.1
102.5°	82.5	111.3	140.0	147.2	316.9	543.2	656.3	689.9	757.1	807.5	793.7
105°	106.6	131.0	155.4	161.5	325.8	544.9	654.4	729.8	880.5	993.5	986.1
107.5°	131.4	154.2	176.9	182.6	327.5	520.6	617.2	722.3	932.5	1090.2	1092.0
110°	148.2	168.7	189.3	194.4	325.0	499.1	586.2	703.7	938.7	1115.0	1122.7



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

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	164.6	184.2	203.7	208.6	325.1	480.4	558.0	678.3	918.8	1099.2	1111.1
115°	189.4	207.4	225.5	230.0	328.1	458.8	524.2	640.1	871.8	1045.6	1062.0
117.5°	213.9	230.3	246.7	250.8	334.2	445.3	500.9	605.5	814.6	971.5	989.7
120°	228.2	243.6	259.0	262.9	339.1	440.8	491.6	587.2	778.3	921.6	939.3
122.5°	242.1	257.7	273.2	277.1	346.2	438.4	484.5	570.5	742.6	871.7	889.2
125°	263.5	277.7	291.9	295.4	355.9	436.5	476.8	549.9	696.1	805.7	821.8
127.5°	280.9	295.2	309.5	313.1	365.5	435.4	470.3	533.1	658.6	752.7	766.3
130°	290.2	305.6	321.0	324.9	372.5	436.0	467.8	523.7	635.4	719.2	731.7
132.5°	299.8	315.2	330.6	334.5	378.2	436.5	465.6	515.6	615.7	690.7	701.9
135°	314.0	328.0	342.1	345.6	384.4	436.1	461.9	503.8	587.6	650.4	660.1
137.5°	328.6	342.5	356.4	359.9	393.7	438.8	461.3	496.7	567.5	620.6	628.5
140°	340.7	353.5	366.3	369.5	399.4	439.2	459.1	489.7	550.8	596.7	604.1
142.5°	350.0	361.8	373.6	376.6	404.1	440.8	459.1	486.0	539.7	580.0	586.4
145°	364.2	374.6	384.9	387.5	410.3	440.8	456.0	478.0	521.9	554.9	559.7
147.5°	378.5	388.5	398.6	401.1	419.4	443.8	456.0	473.3	507.9	533.8	537.8
150°	387.8	396.9	406.0	408.3	424.2	445.4	456.0	470.6	499.8	521.7	524.9
152.5°	397.4	404.3	411.2	412.9	427.3	446.4	456.0	468.5	493.4	512.1	514.5
155°	411.7	416.8	421.8	423.1	434.1	448.7	456.0	465.9	485.7	500.6	502.2
157.5°	422.2	427.2	432.2	433.4	440.9	451.0	456.0	463.7	479.1	490.7	491.8
160°	429.3	433.2	437.0	438.0	444.0	452.0	456.0	462.6	475.9	485.8	486.4
162.5°	436.5	439.4	442.3	443.0	447.3	453.1	456.0	461.6	472.7	481.1	481.7
165°	444.2	446.8	449.4	450.1	452.1	454.7	456.0	460.0	468.0	474.0	474.7
167.5°	451.3	452.5	453.8	454.1	455.8	458.0	459.1	461.7	467.0	470.9	471.2
170°	456.0	457.2	458.5	458.8	458.9	459.0	459.1	461.7	467.0	470.9	470.9
172.5°	458.5	458.8	459.0	459.1	459.1	459.1	459.1	461.2	465.3	468.4	468.2
175°	461.9	461.9	461.9	461.9	461.0	459.7	459.1	460.4	463.0	465.0	465.0
177.5°	461.9	461.9	461.9	461.9	461.2	460.2	459.7	460.7	462.8	464.4	464.1
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



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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°	11.8	11.8	11.8	11.8	11.8	15.7	21.0	23.6	20.3	13.7	8.7
92.5°	47.2	37.8	47.2	56.6	58.9	83.5	116.3	132.7	116.5	84.1	59.8
95°	164.5	136.1	164.5	192.8	199.9	262.5	346.0	387.8	327.5	207.0	116.6
97.5°	394.1	340.1	394.1	448.1	461.6	501.2	553.9	580.3	479.8	278.8	128.0
100°	567.8	503.4	567.8	632.1	648.2	645.3	641.4	639.5	528.0	304.9	137.6
102.5°	738.6	683.5	738.6	793.7	807.5	757.1	689.9	656.3	543.2	316.9	147.2
105°	956.5	926.9	956.5	986.1	993.5	880.5	729.8	654.4	544.9	325.8	161.5
107.5°	1099.2	1106.4	1099.2	1092.0	1090.2	932.5	722.3	617.2	520.6	327.5	182.6
110°	1153.6	1184.5	1153.6	1122.7	1115.0	938.7	703.7	586.2	499.1	325.0	194.4





TEST NUMBER: P934714

CATALOG NUMBER: SQ4-FA-075U-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°	1158.5	1205.9	1158.5	1111.1	1099.2	918.8	678.3	558.0	480.4	325.1	208.6
115°	1127.8	1193.5	1127.8	1062.0	1045.6	871.8	640.1	524.2	458.8	328.1	230.0
117.5°	1062.6	1135.5	1062.6	989.7	971.5	814.6	605.5	500.9	445.3	334.2	250.8
120°	1010.1	1080.9	1010.1	939.3	921.6	778.3	587.2	491.6	440.8	339.1	262.9
122.5°	959.0	1028.9	959.0	889.2	871.7	742.6	570.5	484.5	438.4	346.2	277.1
125°	886.1	950.4	886.1	821.8	805.7	696.1	549.9	476.8	436.5	355.9	295.4
127.5°	820.5	874.8	820.5	766.3	752.7	658.6	533.1	470.3	435.4	365.5	313.1
130°	781.9	832.0	781.9	731.7	719.2	635.4	523.7	467.8	436.0	372.5	324.9
132.5°	746.8	791.7	746.8	701.9	690.7	615.7	515.6	465.6	436.5	378.2	334.5
135°	698.8	737.5	698.8	660.1	650.4	587.6	503.8	461.9	436.1	384.4	345.6
137.5°	660.2	691.9	660.2	628.5	620.6	567.5	496.7	461.3	438.8	393.7	359.9
140°	633.8	663.4	633.8	604.1	596.7	550.8	489.7	459.1	439.2	399.4	369.5
142.5°	611.8	637.3	611.8	586.4	580.0	539.7	486.0	459.1	440.8	404.1	376.6
145°	579.0	598.3	579.0	559.7	554.9	521.9	478.0	456.0	440.8	410.3	387.5
147.5°	553.8	569.8	553.8	537.8	533.8	507.9	473.3	456.0	443.8	419.4	401.1
150°	537.9	550.9	537.9	524.9	521.7	499.8	470.6	456.0	445.4	424.2	408.3
152.5°	524.3	534.1	524.3	514.5	512.1	493.4	468.5	456.0	446.4	427.3	412.9
155°	508.7	515.2	508.7	502.2	500.6	485.7	465.9	456.0	448.7	434.1	423.1
157.5°	496.4	500.9	496.4	491.8	490.7	479.1	463.7	456.0	451.0	440.9	433.4
160°	489.0	491.6	489.0	486.4	485.8	475.9	462.6	456.0	452.0	444.0	438.0
162.5°	484.2	486.7	484.2	481.7	481.1	472.7	461.6	456.0	453.1	447.3	443.0
165°	477.3	479.9	477.3	474.7	474.0	468.0	460.0	456.0	454.7	452.1	450.1
167.5°	472.3	473.4	472.3	471.2	470.9	467.0	461.7	459.1	458.0	455.8	454.1
170°	470.9	470.9	470.9	470.9	470.9	467.0	461.7	459.1	459.0	458.9	458.8
172.5°	467.2	466.2	467.2	468.2	468.4	465.3	461.2	459.1	459.1	459.1	459.1
175°	465.0	465.0	465.0	465.0	465.0	463.0	460.4	459.1	459.7	461.0	461.9
177.5°	463.0	461.9	463.0	464.1	464.4	462.8	460.7	459.7	460.2	461.2	461.9
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



TEST NUMBER: P934714

CATALOG NUMBER: SQ4-FA-075U-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°	8.1	5.6	3.1	5.6	8.1	8.7	13.7	20.3	23.6	21.0	15.7
92.5°	54.5	33.5	12.4	33.5	54.5	59.8	84.1	116.5	132.7	116.3	83.5
95°	107.0	68.4	29.8	68.4	107.0	116.6	207.0	327.5	387.8	346.0	262.5
97.5°	119.5	85.5	51.5	85.5	119.5	128.0	278.8	479.8	580.3	553.9	501.2
100°	129.9	99.0	68.2	99.0	129.9	137.6	304.9	528.0	639.5	641.4	645.3
102.5°	140.0	111.3	82.5	111.3	140.0	147.2	316.9	543.2	656.3	689.9	757.1
105°	155.4	131.0	106.6	131.0	155.4	161.5	325.8	544.9	654.4	729.8	880.5
107.5°	176.9	154.2	131.4	154.2	176.9	182.6	327.5	520.6	617.2	722.3	932.5
110°	189.3	168.7	148.2	168.7	189.3	194.4	325.0	499.1	586.2	703.7	938.7



TEST NUMBER: P934714

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

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	203.7	184.2	164.6	184.2	203.7	208.6	325.1	480.4	558.0	678.3	918.8
115°	225.5	207.4	189.4	207.4	225.5	230.0	328.1	458.8	524.2	640.1	871.8
117.5°	246.7	230.3	213.9	230.3	246.7	250.8	334.2	445.3	500.9	605.5	814.6
120°	259.0	243.6	228.2	243.6	259.0	262.9	339.1	440.8	491.6	587.2	778.3
122.5°	273.2	257.7	242.1	257.7	273.2	277.1	346.2	438.4	484.5	570.5	742.6
125°	291.9	277.7	263.5	277.7	291.9	295.4	355.9	436.5	476.8	549.9	696.1
127.5°	309.5	295.2	280.9	295.2	309.5	313.1	365.5	435.4	470.3	533.1	658.6
130°	321.0	305.6	290.2	305.6	321.0	324.9	372.5	436.0	467.8	523.7	635.4
132.5°	330.6	315.2	299.8	315.2	330.6	334.5	378.2	436.5	465.6	515.6	615.7
135°	342.1	328.0	314.0	328.0	342.1	345.6	384.4	436.1	461.9	503.8	587.6
137.5°	356.4	342.5	328.6	342.5	356.4	359.9	393.7	438.8	461.3	496.7	567.5
140°	366.3	353.5	340.7	353.5	366.3	369.5	399.4	439.2	459.1	489.7	550.8
142.5°	373.6	361.8	350.0	361.8	373.6	376.6	404.1	440.8	459.1	486.0	539.7
145°	384.9	374.6	364.2	374.6	384.9	387.5	410.3	440.8	456.0	478.0	521.9
147.5°	398.6	388.5	378.5	388.5	398.6	401.1	419.4	443.8	456.0	473.3	507.9
150°	406.0	396.9	387.8	396.9	406.0	408.3	424.2	445.4	456.0	470.6	499.8
152.5°	411.2	404.3	397.4	404.3	411.2	412.9	427.3	446.4	456.0	468.5	493.4
155°	421.8	416.8	411.7	416.8	421.8	423.1	434.1	448.7	456.0	465.9	485.7
157.5°	432.2	427.2	422.2	427.2	432.2	433.4	440.9	451.0	456.0	463.7	479.1
160°	437.0	433.2	429.3	433.2	437.0	438.0	444.0	452.0	456.0	462.6	475.9
162.5°	442.3	439.4	436.5	439.4	442.3	443.0	447.3	453.1	456.0	461.6	472.7
165°	449.4	446.8	444.2	446.8	449.4	450.1	452.1	454.7	456.0	460.0	468.0
167.5°	453.8	452.5	451.3	452.5	453.8	454.1	455.8	458.0	459.1	461.7	467.0
170°	458.5	457.2	456.0	457.2	458.5	458.8	458.9	459.0	459.1	461.7	467.0
172.5°	459.0	458.8	458.5	458.8	459.0	459.1	459.1	459.1	459.1	461.2	465.3
175°	461.9	461.9	461.9	461.9	461.9	461.9	461.0	459.7	459.1	460.4	463.0
177.5°	461.9	461.9	461.9	461.9	461.9	461.9	461.2	460.2	459.7	460.7	462.8
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



TEST NUMBER: P934714

CATALOG NUMBER: SQ4-FA-075U-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°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	15.7	21.0	23.6	20.3
92.5°	58.9	56.6	47.2	37.8	47.2	56.6	58.9	83.5	116.3	132.7	116.5
95°	199.9	192.8	164.5	136.1	164.5	192.8	199.9	262.5	346.0	387.8	327.5
97.5°	461.6	448.1	394.1	340.1	394.1	448.1	461.6	501.2	553.9	580.3	479.8
100°	648.2	632.1	567.8	503.4	567.8	632.1	648.2	645.3	641.4	639.5	528.0
102.5°	807.5	793.7	738.6	683.5	738.6	793.7	807.5	757.1	689.9	656.3	543.2
105°	993.5	986.1	956.5	926.9	956.5	986.1	993.5	880.5	729.8	654.4	544.9
107.5°	1090.2	1092.0	1099.2	1106.4	1099.2	1092.0	1090.2	932.5	722.3	617.2	520.6
110°	1115.0	1122.7	1153.6	1184.5	1153.6	1122.7	1115.0	938.7	703.7	586.2	499.1



TEST NUMBER: P934714

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

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1099.2	1111.1	1158.5	1205.9	1158.5	1111.1	1099.2	918.8	678.3	558.0	480.4
115°	1045.6	1062.0	1127.8	1193.5	1127.8	1062.0	1045.6	871.8	640.1	524.2	458.8
117.5°	971.5	989.7	1062.6	1135.5	1062.6	989.7	971.5	814.6	605.5	500.9	445.3
120°	921.6	939.3	1010.1	1080.9	1010.1	939.3	921.6	778.3	587.2	491.6	440.8
122.5°	871.7	889.2	959.0	1028.9	959.0	889.2	871.7	742.6	570.5	484.5	438.4
125°	805.7	821.8	886.1	950.4	886.1	821.8	805.7	696.1	549.9	476.8	436.5
127.5°	752.7	766.3	820.5	874.8	820.5	766.3	752.7	658.6	533.1	470.3	435.4
130°	719.2	731.7	781.9	832.0	781.9	731.7	719.2	635.4	523.7	467.8	436.0
132.5°	690.7	701.9	746.8	791.7	746.8	701.9	690.7	615.7	515.6	465.6	436.5
135°	650.4	660.1	698.8	737.5	698.8	660.1	650.4	587.6	503.8	461.9	436.1
137.5°	620.6	628.5	660.2	691.9	660.2	628.5	620.6	567.5	496.7	461.3	438.8
140°	596.7	604.1	633.8	663.4	633.8	604.1	596.7	550.8	489.7	459.1	439.2
142.5°	580.0	586.4	611.8	637.3	611.8	586.4	580.0	539.7	486.0	459.1	440.8
145°	554.9	559.7	579.0	598.3	579.0	559.7	554.9	521.9	478.0	456.0	440.8
147.5°	533.8	537.8	553.8	569.8	553.8	537.8	533.8	507.9	473.3	456.0	443.8
150°	521.7	524.9	537.9	550.9	537.9	524.9	521.7	499.8	470.6	456.0	445.4
152.5°	512.1	514.5	524.3	534.1	524.3	514.5	512.1	493.4	468.5	456.0	446.4
155°	500.6	502.2	508.7	515.2	508.7	502.2	500.6	485.7	465.9	456.0	448.7
157.5°	490.7	491.8	496.4	500.9	496.4	491.8	490.7	479.1	463.7	456.0	451.0
160°	485.8	486.4	489.0	491.6	489.0	486.4	485.8	475.9	462.6	456.0	452.0
162.5°	481.1	481.7	484.2	486.7	484.2	481.7	481.1	472.7	461.6	456.0	453.1
165°	474.0	474.7	477.3	479.9	477.3	474.7	474.0	468.0	460.0	456.0	454.7
167.5°	470.9	471.2	472.3	473.4	472.3	471.2	470.9	467.0	461.7	459.1	458.0
170°	470.9	470.9	470.9	470.9	470.9	470.9	470.9	467.0	461.7	459.1	459.0
172.5°	468.4	468.2	467.2	466.2	467.2	468.2	468.4	465.3	461.2	459.1	459.1
175°	465.0	465.0	465.0	465.0	465.0	465.0	465.0	463.0	460.4	459.1	459.7
177.5°	464.4	464.1	463.0	461.9	463.0	464.1	464.4	462.8	460.7	459.7	460.2
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



TEST NUMBER: P934714

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

**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°	13.7	8.7	8.1	5.6	3.1
92.5°	84.1	59.8	54.5	33.5	12.4
95°	207.0	116.6	107.0	68.4	29.8
97.5°	278.8	128.0	119.5	85.5	51.5
100°	304.9	137.6	129.9	99.0	68.2
102.5°	316.9	147.2	140.0	111.3	82.5
105°	325.8	161.5	155.4	131.0	106.6
107.5°	327.5	182.6	176.9	154.2	131.4
110°	325.0	194.4	189.3	168.7	148.2



TEST NUMBER: P934714

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

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	325.1	208.6	203.7	184.2	164.6
115°	328.1	230.0	225.5	207.4	189.4
117.5°	334.2	250.8	246.7	230.3	213.9
120°	339.1	262.9	259.0	243.6	228.2
122.5°	346.2	277.1	273.2	257.7	242.1
125°	355.9	295.4	291.9	277.7	263.5
127.5°	365.5	313.1	309.5	295.2	280.9
130°	372.5	324.9	321.0	305.6	290.2
132.5°	378.2	334.5	330.6	315.2	299.8
135°	384.4	345.6	342.1	328.0	314.0
137.5°	393.7	359.9	356.4	342.5	328.6
140°	399.4	369.5	366.3	353.5	340.7
142.5°	404.1	376.6	373.6	361.8	350.0
145°	410.3	387.5	384.9	374.6	364.2
147.5°	419.4	401.1	398.6	388.5	378.5
150°	424.2	408.3	406.0	396.9	387.8
152.5°	427.3	412.9	411.2	404.3	397.4
155°	434.1	423.1	421.8	416.8	411.7
157.5°	440.9	433.4	432.2	427.2	422.2
160°	444.0	438.0	437.0	433.2	429.3
162.5°	447.3	443.0	442.3	439.4	436.5
165°	452.1	450.1	449.4	446.8	444.2
167.5°	455.8	454.1	453.8	452.5	451.3
170°	458.9	458.8	458.5	457.2	456.0
172.5°	459.1	459.1	459.0	458.8	458.5
175°	461.0	461.9	461.9	461.9	461.9
177.5°	461.2	461.9	461.9	461.9	461.9
180°	461.9	461.9	461.9	461.9	461.9



TEST NUMBER: P934714  
 CATALOG NUMBER: SQ4-FA-075U-075D-835-1D-UNV-STD-W-4

**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	12.52	13.36	13.50	14.35	15.65	15.32	16.16	16.29	17.15	18.45
	3H	13.00	13.75	13.98	14.75	16.07	16.65	17.41	17.64	18.40	19.73
	4H	13.19	13.90	14.19	14.90	16.23	17.09	17.80	18.09	18.80	20.14
	6H	13.30	13.96	14.32	14.97	16.31	17.36	18.02	18.38	19.03	20.37
	8H	13.31	13.93	14.32	14.95	16.30	17.43	18.06	18.45	19.08	20.42
	12H	13.28	13.87	14.30	14.89	16.25	17.47	18.06	18.49	19.08	20.45
4H	2H	13.54	14.26	14.55	15.26	16.59	15.73	16.44	16.73	17.44	18.77
	3H	14.57	15.16	15.58	16.19	17.54	17.22	17.82	18.24	18.85	20.19
	4H	14.84	15.39	15.87	16.41	17.78	17.74	18.29	18.76	19.31	20.68
	6H	14.97	15.44	16.00	16.48	17.85	18.10	18.57	19.13	19.61	20.98
	8H	14.97	15.41	16.01	16.45	17.83	18.20	18.64	19.23	19.67	21.06
	12H	14.94	15.33	15.99	16.39	17.77	18.25	18.64	19.30	19.70	21.08
8H	4H	15.29	15.73	16.32	16.77	18.15	17.86	18.30	18.90	19.34	20.72
	6H	15.55	15.91	16.61	16.99	18.37	18.29	18.65	19.35	19.73	21.11
	8H	15.59	15.91	16.66	16.98	18.37	18.44	18.76	19.51	19.82	21.22
	12H	15.58	15.86	16.65	16.92	18.35	18.53	18.81	19.60	19.87	21.31
12H	4H	15.29	15.69	16.35	16.74	18.13	17.83	18.22	18.88	19.28	20.66
	6H	15.61	15.93	16.68	16.99	18.39	18.29	18.61	19.36	19.67	21.07
	8H	15.68	15.95	16.75	17.02	18.45	18.44	18.72	19.51	19.78	21.22