

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: P935110

Luminaire Tested: SQ4-FA-100U-075D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

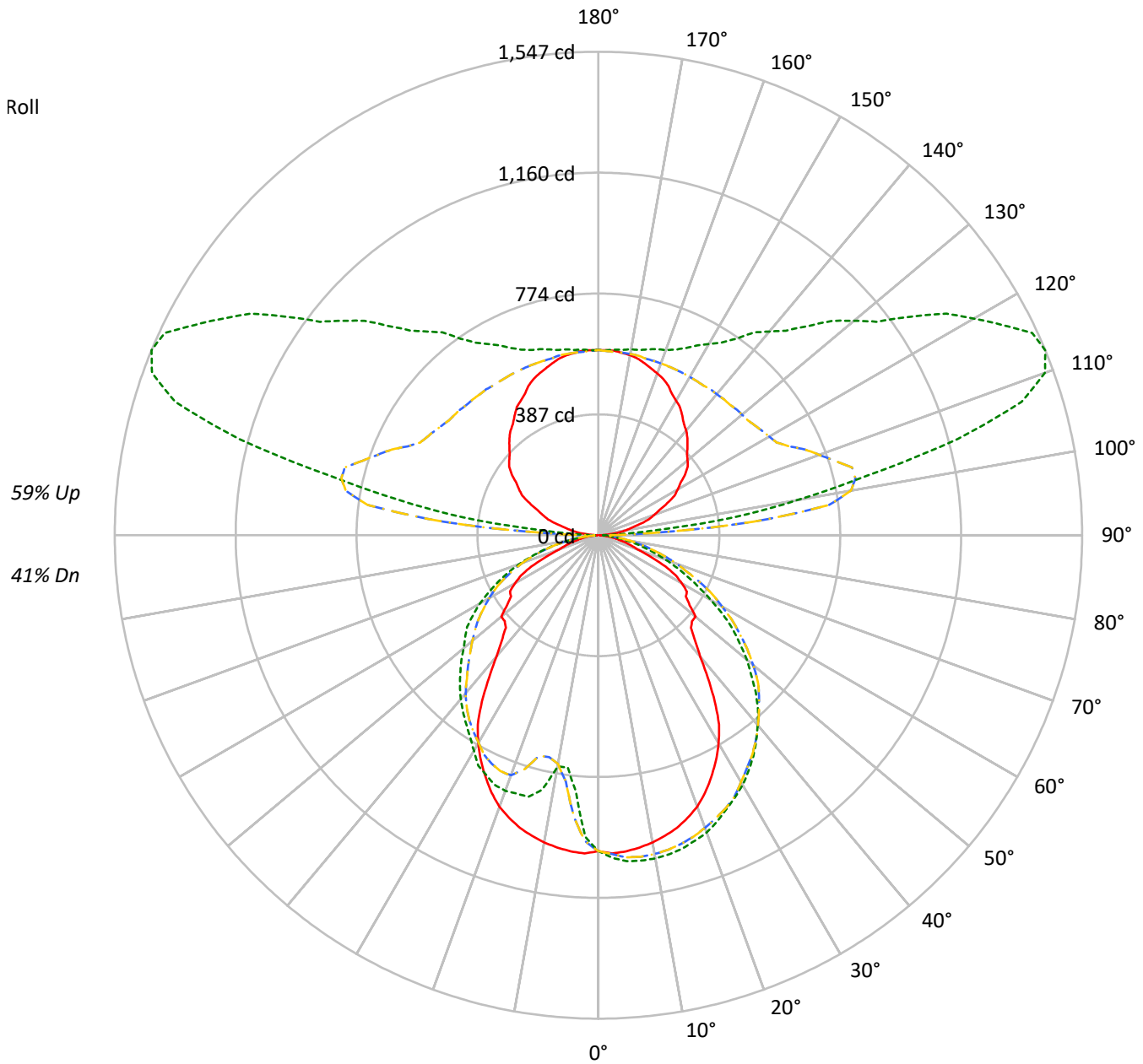
Test Method: LM-79-2019  
Report Number: P935110  
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-075D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6463.5 lumens  
Efficiency: N/A  
Efficacy: 131.4 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°	9378	9378	9378	9378
5°	9437	9467	9437	7443
10°	9364	9326	9364	6667
15°	9252	9124	9252	7617
20°	9047	8883	9047	7634
25°	8641	8534	8641	7472
30°	8119	8244	8119	7116
35°	7228	7878	7228	6727
40°	6013	7446	6013	6432
45°	5362	6942	5362	6093
50°	5683	6339	5683	5752
55°	5333	5690	5333	5555
60°	5475	4833	5475	5088
65°	4941	3994	4941	4466
70°	3397	3183	3397	3742
75°	2948	2353	2948	2817
80°	2326	1555	2326	1694
85°	1267	823	1267	700

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8233 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	1.4
10°-20°	259.0	4.0
20°-30°	400.4	6.2
30°-40°	478.0	7.4
40°-50°	480.8	7.4
50°-60°	418.4	6.5
60°-70°	296.6	4.6
70°-80°	156.9	2.4
80°-90°	41.3	0.6
90°-100°	288.8	4.5
100°-110°	759.3	11.7
110°-120°	787.3	12.2
120°-130°	631.5	9.8
130°-140°	495.5	7.7
140°-150°	380.3	5.9
150°-160°	273.9	4.2
160°-170°	167.6	2.6
170°-180°	56.6	0.9
0°-30°	750.6	11.6
0°-40°	1228.6	19.0
0°-60°	2127.8	32.9
0°-90°	2622.6	40.6
90°-120°	1835.4	28.4
90°-150°	3342.8	51.7
90°-180°	3841.0	59.4
0°-180°	6463.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1011	1011	1011	1011	1011	
5°	1015	1047	1015	823	1015	96
15°	970	1038	970	866	970	273
25°	854	968	854	847	854	392
35°	649	863	649	737	649	402
45°	419	711	419	624	419	335
55°	341	525	341	512	341	314
65°	237	316	237	354	237	227
75°	90	150	90	180	90	94
85°	15	38	15	32	15	21
90°	4	15	4	15	4	4
95°	38	175	38	175	38	42
105°	137	1189	137	1189	137	145
115°	243	1531	243	1531	243	240
125°	338	1219	338	1219	338	300
135°	403	946	403	946	403	312
145°	467	768	467	768	467	293
155°	528	661	528	661	528	243
165°	570	616	570	616	570	161
175°	592	596	592	596	592	56
180°	592	592	592	592	592	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	1019.2	1019.2	1025.0	1026.9	1026.9	1024.1	1021.2	1024.1	1032.7	1035.5	1034.6
5°	1015.4	1023.1	1033.6	1035.5	1037.5	1036.5	1034.6	1036.5	1046.1	1048.0	1048.9
7.5°	1007.7	1022.2	1035.5	1038.4	1041.3	1038.4	1037.5	1039.4	1048.9	1050.8	1050.8
10°	998.2	1018.2	1033.6	1035.5	1038.4	1035.5	1035.5	1039.4	1048.9	1050.8	1051.8
12.5°	984.8	1012.5	1026.9	1028.8	1032.7	1031.7	1030.8	1034.6	1044.1	1046.1	1046.1
15°	969.5	1002.0	1015.4	1017.3	1024.1	1022.2	1022.2	1026.0	1036.5	1039.4	1038.4
17.5°	948.4	988.6	1003.9	1006.8	1011.5	1010.6	1011.5	1015.4	1025.0	1026.9	1027.9
20°	924.5	970.4	988.6	991.5	996.2	996.2	996.2	1001.0	1010.6	1014.4	1014.4
22.5°	892.0	951.3	970.4	972.3	978.1	978.1	980.0	986.7	995.3	996.2	996.2
25°	853.8	930.3	946.5	952.3	958.0	960.9	963.7	967.6	970.4	969.5	970.4
27.5°	813.7	903.5	924.5	928.4	936.0	938.9	942.7	943.7	944.6	947.5	945.6
30°	768.7	866.2	897.8	901.6	914.0	915.9	912.1	914.0	918.8	920.7	922.6
32.5°	718.1	810.8	870.1	878.7	890.1	884.4	883.4	886.3	894.0	894.0	895.9
35°	649.2	767.8	844.2	851.9	860.5	853.8	857.6	858.6	863.4	866.2	865.3
37.5°	573.7	730.5	817.5	823.2	829.9	821.3	827.0	829.9	833.7	831.8	831.8
40°	506.8	672.2	785.9	789.8	795.5	788.8	794.5	796.4	798.4	796.4	795.5
42.5°	457.1	608.1	752.5	757.2	753.4	758.2	760.1	763.9	761.1	757.2	757.2
45°	418.8	590.9	716.1	721.9	716.1	723.8	726.7	726.7	718.1	716.1	715.2
47.5°	406.4	556.5	679.8	679.8	676.9	686.5	691.3	684.6	676.0	673.1	673.1
50°	405.4	518.2	630.1	626.3	639.7	651.1	646.4	639.7	633.0	622.5	622.5
52.5°	368.2	471.4	566.0	580.4	601.4	608.1	600.5	593.8	582.3	577.5	573.7
55°	341.4	422.6	507.7	536.4	558.4	567.0	552.7	546.0	528.8	525.9	524.0
57.5°	335.6	351.9	454.2	490.5	517.3	516.3	507.7	495.3	481.0	478.1	477.1
60°	307.8	254.3	396.8	439.9	467.6	464.7	457.1	445.6	432.2	430.3	428.4
62.5°	279.2	184.5	331.7	380.6	419.8	418.8	412.1	394.9	385.4	380.6	376.8
65°	237.1	154.9	236.1	316.4	372.9	374.8	360.5	348.1	337.5	331.7	330.8
67.5°	180.7	126.2	159.7	263.9	327.9	326.0	307.8	302.1	288.7	285.8	280.1
70°	133.8	84.1	110.9	214.1	283.9	279.2	264.8	258.1	245.7	239.0	235.2
72.5°	110.9	67.9	81.3	166.3	239.0	233.3	220.8	213.2	202.7	196.9	193.1
75°	89.9	71.7	62.1	123.3	194.1	190.2	178.8	171.1	162.5	154.9	155.8
77.5°	66.0	66.9	49.7	90.8	153.9	148.2	141.5	131.9	128.1	120.5	120.5
80°	49.7	52.6	37.3	62.1	110.9	110.9	105.2	98.5	91.8	88.0	88.0
82.5°	33.5	33.5	27.7	39.2	75.5	72.7	68.8	66.9	63.1	61.2	61.2
85°	15.3	19.1	17.2	23.9	41.1	43.0	43.0	41.1	40.2	38.2	39.2
87.5°	4.8	8.6	10.5	13.4	21.0	22.0	22.9	22.9	22.9	23.9	23.9
90°	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2	15.1	15.1
92.5°	15.9	42.9	70.0	76.8	107.9	149.4	170.2	149.1	107.1	75.5	72.6
95°	38.1	87.7	137.2	149.5	265.5	420.1	497.4	443.9	336.8	256.5	247.4
97.5°	66.0	109.7	153.3	164.2	357.6	615.5	744.3	710.5	642.8	592.1	574.7
100°	87.5	127.1	166.6	176.6	391.2	677.3	820.3	822.8	827.7	831.4	810.8
102.5°	105.7	142.7	179.6	188.9	406.6	696.7	841.9	885.0	971.2	1035.8	1018.1
105°	136.8	168.1	199.3	207.2	418.0	698.9	839.5	936.1	1129.4	1274.4	1265.0
107.5°	168.6	197.8	227.0	234.2	420.1	667.8	791.7	926.6	1196.2	1398.5	1400.8
110°	190.1	216.4	242.7	249.3	416.8	640.2	751.9	902.7	1204.2	1430.3	1440.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	211.2	236.2	261.3	267.6	417.0	616.1	715.8	870.1	1178.6	1410.0	1425.2
115°	242.9	266.1	289.2	295.0	420.8	588.6	672.5	821.1	1118.3	1341.3	1362.3
117.5°	274.4	295.4	316.4	321.7	428.7	571.3	642.6	776.8	1045.0	1246.2	1269.6
120°	292.6	312.4	332.2	337.2	435.0	565.5	630.7	753.2	998.4	1182.2	1204.9
122.5°	310.6	330.6	350.6	355.5	444.2	562.4	621.5	731.8	952.6	1118.1	1140.5
125°	338.0	356.2	374.4	379.0	456.5	559.8	611.6	705.3	892.8	1033.4	1054.1
127.5°	360.2	378.6	397.0	401.6	468.8	558.4	603.2	683.7	844.7	965.5	982.9
130°	372.2	392.0	411.7	416.7	477.8	559.4	600.1	671.8	815.1	922.5	938.6
132.5°	384.5	404.3	424.1	429.1	485.1	559.8	597.2	661.4	789.7	885.9	900.4
135°	402.9	420.8	438.9	443.4	493.1	559.4	592.5	646.3	753.6	834.2	846.6
137.5°	421.5	439.4	457.2	461.7	505.0	562.8	591.7	637.1	727.9	796.1	806.2
140°	437.0	453.4	469.9	474.0	512.3	563.4	588.9	628.1	706.6	765.5	774.9
142.5°	448.9	464.1	479.3	483.2	518.4	565.4	588.9	623.3	692.2	744.0	752.2
145°	467.2	480.5	493.7	497.0	526.4	565.5	585.0	613.2	669.5	711.7	718.0
147.5°	485.6	498.5	511.3	514.5	538.0	569.3	585.0	607.2	651.5	684.8	689.9
150°	497.4	509.1	520.7	523.7	544.2	571.4	585.0	603.7	641.1	669.2	673.3
152.5°	509.7	518.5	527.4	529.6	548.1	572.6	585.0	600.9	632.9	656.9	660.0
155°	528.1	534.6	541.2	542.8	556.9	575.6	585.0	597.7	623.1	642.1	644.2
157.5°	541.6	548.0	554.3	555.9	565.6	578.5	585.0	594.8	614.6	629.4	630.9
160°	550.8	555.7	560.6	561.8	569.6	579.8	585.0	593.5	610.4	623.1	624.0
162.5°	559.8	563.6	567.3	568.2	573.8	581.2	585.0	592.1	606.4	617.1	617.9
165°	569.8	573.1	576.5	577.3	579.9	583.3	585.0	590.1	600.4	608.0	608.9
167.5°	579.0	580.6	582.2	582.6	584.7	587.5	588.9	592.2	598.9	604.0	604.4
170°	585.0	586.5	588.1	588.5	588.6	588.8	588.9	592.2	598.9	604.0	604.0
172.5°	588.1	588.5	588.8	588.9	588.9	588.9	588.9	591.6	596.8	600.8	600.6
175°	592.5	592.5	592.5	592.5	591.3	589.7	588.9	590.6	594.0	596.4	596.4
177.5°	592.5	592.5	592.5	592.5	591.6	590.3	589.7	591.0	593.7	595.7	595.3
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	1036.5	1033.6	1036.5	1034.6	1035.5	1032.7	1024.1	1021.2	1024.1	1026.9	1026.9
5°	1048.9	1047.0	1048.9	1048.9	1048.0	1046.1	1036.5	1034.6	1036.5	1037.5	1035.5
7.5°	1052.7	1049.9	1052.7	1050.8	1050.8	1048.9	1039.4	1037.5	1038.4	1041.3	1038.4
10°	1052.7	1049.9	1052.7	1051.8	1050.8	1048.9	1039.4	1035.5	1035.5	1038.4	1035.5
12.5°	1048.0	1046.1	1048.0	1046.1	1046.1	1044.1	1034.6	1030.8	1031.7	1032.7	1028.8
15°	1040.3	1037.5	1040.3	1038.4	1039.4	1036.5	1026.0	1022.2	1022.2	1024.1	1017.3
17.5°	1028.8	1025.0	1028.8	1027.9	1026.9	1025.0	1015.4	1011.5	1010.6	1011.5	1006.8
20°	1015.4	1012.5	1015.4	1014.4	1014.4	1010.6	1001.0	996.2	996.2	996.2	991.5
22.5°	994.3	991.5	994.3	996.2	996.2	995.3	986.7	980.0	978.1	978.1	972.3
25°	970.4	967.6	970.4	970.4	969.5	970.4	967.6	963.7	960.9	958.0	952.3
27.5°	947.5	945.6	947.5	945.6	947.5	944.6	943.7	942.7	938.9	936.0	928.4
30°	924.5	922.6	924.5	922.6	920.7	918.8	914.0	912.1	915.9	914.0	901.6
32.5°	895.9	894.0	895.9	895.9	894.0	894.0	886.3	883.4	884.4	890.1	878.7
35°	866.2	863.4	866.2	865.3	866.2	863.4	858.6	857.6	853.8	860.5	851.9
37.5°	831.8	828.9	831.8	831.8	831.8	833.7	829.9	827.0	821.3	829.9	823.2
40°	796.4	792.6	796.4	795.5	796.4	798.4	796.4	794.5	788.8	795.5	789.8
42.5°	756.3	755.3	756.3	757.2	757.2	761.1	763.9	760.1	758.2	753.4	757.2
45°	713.3	711.4	713.3	715.2	716.1	718.1	726.7	726.7	723.8	716.1	721.9
47.5°	667.4	662.6	667.4	673.1	673.1	676.0	684.6	691.3	686.5	676.9	679.8
50°	618.6	619.6	618.6	622.5	622.5	633.0	639.7	646.4	651.1	639.7	626.3
52.5°	570.8	569.9	570.8	573.7	577.5	582.3	593.8	600.5	608.1	601.4	580.4
55°	523.0	524.9	523.0	524.0	525.9	528.8	546.0	552.7	567.0	558.4	536.4
57.5°	475.2	472.4	475.2	477.1	478.1	481.0	495.3	507.7	516.3	517.3	490.5
60°	419.8	416.0	419.8	428.4	430.3	432.2	445.6	457.1	464.7	467.6	439.9
62.5°	371.0	364.3	371.0	376.8	380.6	385.4	394.9	412.1	418.8	419.8	380.6
65°	319.3	316.4	319.3	330.8	331.7	337.5	348.1	360.5	374.8	372.9	316.4
67.5°	272.5	272.5	272.5	280.1	285.8	288.7	302.1	307.8	326.0	327.9	263.9
70°	229.4	228.5	229.4	235.2	239.0	245.7	258.1	264.8	279.2	283.9	214.1
72.5°	188.3	187.4	188.3	193.1	196.9	202.7	213.2	220.8	233.3	239.0	166.3
75°	152.0	150.1	152.0	155.8	154.9	162.5	171.1	178.8	190.2	194.1	123.3
77.5°	116.6	116.6	116.6	120.5	120.5	128.1	131.9	141.5	148.2	153.9	90.8
80°	87.0	86.0	87.0	88.0	88.0	91.8	98.5	105.2	110.9	110.9	62.1
82.5°	61.2	59.3	61.2	61.2	61.2	63.1	66.9	68.8	72.7	75.5	39.2
85°	38.2	38.2	38.2	39.2	38.2	40.2	41.1	43.0	43.0	41.1	23.9
87.5°	24.9	23.9	24.9	23.9	23.9	22.9	22.9	22.9	22.0	21.0	13.4
90°	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0	17.5	11.1
92.5°	60.5	48.5	60.5	72.6	75.5	107.1	149.1	170.2	149.4	107.9	76.8
95°	211.0	174.6	211.0	247.4	256.5	336.8	443.9	497.4	420.1	265.5	149.5
97.5°	505.4	436.2	505.4	574.7	592.1	642.8	710.5	744.3	615.5	357.6	164.2
100°	728.3	645.8	728.3	810.8	831.4	827.7	822.8	820.3	677.3	391.2	176.6
102.5°	947.5	876.8	947.5	1018.1	1035.8	971.2	885.0	841.9	696.7	406.6	188.9
105°	1226.9	1189.0	1226.9	1265.0	1274.4	1129.4	936.1	839.5	698.9	418.0	207.2
107.5°	1410.0	1419.2	1410.0	1400.8	1398.5	1196.2	926.6	791.7	667.8	420.1	234.2
110°	1479.8	1519.4	1479.8	1440.2	1430.3	1204.2	902.7	751.9	640.2	416.8	249.3





TEST NUMBER: P935110

CATALOG NUMBER: SQ4-FA-100U-075D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1486.0	1546.8	1486.0	1425.2	1410.0	1178.6	870.1	715.8	616.1	417.0	267.6
115°	1446.6	1530.9	1446.6	1362.3	1341.3	1118.3	821.1	672.5	588.6	420.8	295.0
117.5°	1363.1	1456.6	1363.1	1269.6	1246.2	1045.0	776.8	642.6	571.3	428.7	321.7
120°	1295.8	1386.6	1295.8	1204.9	1182.2	998.4	753.2	630.7	565.5	435.0	337.2
122.5°	1230.2	1319.8	1230.2	1140.5	1118.1	952.6	731.8	621.5	562.4	444.2	355.5
125°	1136.6	1219.2	1136.6	1054.1	1033.4	892.8	705.3	611.6	559.8	456.5	379.0
127.5°	1052.6	1122.2	1052.6	982.9	965.5	844.7	683.7	603.2	558.4	468.8	401.6
130°	1002.9	1067.3	1002.9	938.6	922.5	815.1	671.8	600.1	559.4	477.8	416.7
132.5°	957.9	1015.6	957.9	900.4	885.9	789.7	661.4	597.2	559.8	485.1	429.1
135°	896.2	946.0	896.2	846.6	834.2	753.6	646.3	592.5	559.4	493.1	443.4
137.5°	846.9	887.6	846.9	806.2	796.1	727.9	637.1	591.7	562.8	505.0	461.7
140°	813.0	850.9	813.0	774.9	765.5	706.6	628.1	588.9	563.4	512.3	474.0
142.5°	784.9	817.6	784.9	752.2	744.0	692.2	623.3	588.9	565.4	518.4	483.2
145°	742.7	767.5	742.7	718.0	711.7	669.5	613.2	585.0	565.5	526.4	497.0
147.5°	710.4	730.9	710.4	689.9	684.8	651.5	607.2	585.0	569.3	538.0	514.5
150°	689.9	706.6	689.9	673.3	669.2	641.1	603.7	585.0	571.4	544.2	523.7
152.5°	672.5	685.2	672.5	660.0	656.9	632.9	600.9	585.0	572.6	548.1	529.6
155°	652.6	660.9	652.6	644.2	642.1	623.1	597.7	585.0	575.6	556.9	542.8
157.5°	636.8	642.6	636.8	630.9	629.4	614.6	594.8	585.0	578.5	565.6	555.9
160°	627.3	630.7	627.3	624.0	623.1	610.4	593.5	585.0	579.8	569.6	561.8
162.5°	621.1	624.3	621.1	617.9	617.1	606.4	592.1	585.0	581.2	573.8	568.2
165°	612.2	615.6	612.2	608.9	608.0	600.4	590.1	585.0	583.3	579.9	577.3
167.5°	605.7	607.2	605.7	604.4	604.0	598.9	592.2	588.9	587.5	584.7	582.6
170°	604.0	604.0	604.0	604.0	604.0	598.9	592.2	588.9	588.8	588.6	588.5
172.5°	599.3	598.1	599.3	600.6	600.8	596.8	591.6	588.9	588.9	588.9	588.9
175°	596.4	596.4	596.4	596.4	596.4	594.0	590.6	588.9	589.7	591.3	592.5
177.5°	594.0	592.5	594.0	595.3	595.7	593.7	591.0	589.7	590.3	591.6	592.5
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



TEST NUMBER: P935110  
 CATALOG NUMBER: SQ4-FA-100U-075D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	1025.0	1019.2	1019.2	1009.6	1005.8	1002.9	998.2	983.8	980.0	976.2	981.9
5°	1033.6	1023.1	1015.4	998.2	983.8	978.1	959.9	925.5	902.6	885.4	875.8
7.5°	1035.5	1022.2	1007.7	981.0	946.5	931.2	875.8	812.7	795.5	780.2	770.6
10°	1033.6	1018.2	998.2	958.0	876.7	850.0	794.5	753.4	742.9	740.0	742.9
12.5°	1026.9	1012.5	984.8	917.9	804.1	785.9	753.4	729.5	727.6	732.4	758.2
15°	1015.4	1002.0	969.5	864.3	763.9	750.6	727.6	719.0	729.5	763.0	840.4
17.5°	1003.9	988.6	948.4	811.7	733.3	723.8	707.5	724.7	784.0	828.9	854.8
20°	988.6	970.4	924.5	773.5	711.4	702.8	695.1	772.5	817.5	833.7	848.1
22.5°	970.4	951.3	892.0	746.7	688.4	681.7	686.5	799.3	817.5	828.9	841.4
25°	946.5	930.3	853.8	725.7	670.3	662.6	680.8	796.4	807.0	809.8	834.7
27.5°	924.5	903.5	813.7	706.6	648.3	645.4	685.5	784.0	791.7	794.5	821.3
30°	897.8	866.2	768.7	686.5	625.3	624.4	686.5	768.7	766.8	774.5	801.2
32.5°	870.1	810.8	718.1	661.6	603.3	602.4	679.8	745.8	743.9	754.4	774.5
35°	844.2	767.8	649.2	633.0	575.6	576.6	663.6	719.0	720.0	729.5	742.0
37.5°	817.5	730.5	573.7	601.4	548.8	548.8	641.6	694.2	692.2	695.1	712.3
40°	785.9	672.2	506.8	560.3	524.0	521.1	614.8	667.4	660.7	659.7	683.6
42.5°	752.5	608.1	457.1	505.8	495.3	491.5	582.3	634.9	622.5	625.3	655.9
45°	716.1	590.9	418.8	427.4	465.7	462.8	546.9	597.6	589.0	596.6	628.2
47.5°	679.8	556.5	406.4	354.8	434.1	433.2	507.7	561.3	556.5	564.1	597.6
50°	630.1	518.2	405.4	304.0	398.7	402.6	460.9	525.9	525.9	532.6	568.0
52.5°	566.0	471.4	368.2	275.3	357.6	369.1	419.8	495.3	497.2	503.9	535.5
55°	507.7	422.6	341.4	253.3	308.8	333.6	379.6	463.8	467.6	474.3	503.0
57.5°	454.2	351.9	335.6	227.5	263.9	287.8	344.3	433.2	435.1	440.8	468.5
60°	396.8	254.3	307.8	199.8	224.7	242.8	311.7	396.8	403.5	407.4	431.3
62.5°	331.7	184.5	279.2	180.7	205.5	209.4	284.9	362.4	371.0	373.9	388.2
65°	236.1	154.9	237.1	164.4	185.5	186.4	256.2	327.0	334.6	339.4	350.0
67.5°	159.7	126.2	180.7	149.1	170.2	171.1	228.5	285.8	296.4	300.2	306.9
70°	110.9	84.1	133.8	132.9	153.0	154.9	198.8	248.6	258.1	261.0	264.8
72.5°	81.3	67.9	110.9	119.5	134.8	136.7	168.3	206.5	216.1	218.9	220.8
75°	62.1	71.7	89.9	104.2	114.7	115.7	137.7	168.3	174.9	176.9	177.8
77.5°	49.7	66.9	66.0	84.1	93.7	91.8	108.0	130.0	135.8	135.8	135.8
80°	37.3	52.6	49.7	60.2	68.8	66.9	77.4	92.7	94.6	96.6	95.6
82.5°	27.7	33.5	33.5	38.2	45.9	44.0	51.6	60.2	60.2	60.2	62.1
85°	17.2	19.1	15.3	20.1	25.8	24.9	28.7	32.5	33.5	33.5	31.5
87.5°	10.5	8.6	4.8	7.6	11.5	11.5	13.4	14.3	13.4	13.4	13.4
90°	10.3	7.2	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2
92.5°	70.0	42.9	15.9	42.9	70.0	76.8	107.9	149.4	170.2	149.1	107.1
95°	137.2	87.7	38.1	87.7	137.2	149.5	265.5	420.1	497.4	443.9	336.8
97.5°	153.3	109.7	66.0	109.7	153.3	164.2	357.6	615.5	744.3	710.5	642.8
100°	166.6	127.1	87.5	127.1	166.6	176.6	391.2	677.3	820.3	822.8	827.7
102.5°	179.6	142.7	105.7	142.7	179.6	188.9	406.6	696.7	841.9	885.0	971.2
105°	199.3	168.1	136.8	168.1	199.3	207.2	418.0	698.9	839.5	936.1	1129.4
107.5°	227.0	197.8	168.6	197.8	227.0	234.2	420.1	667.8	791.7	926.6	1196.2
110°	242.7	216.4	190.1	216.4	242.7	249.3	416.8	640.2	751.9	902.7	1204.2



TEST NUMBER: P935110

CATALOG NUMBER: SQ4-FA-100U-075D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	261.3	236.2	211.2	236.2	261.3	267.6	417.0	616.1	715.8	870.1	1178.6
115°	289.2	266.1	242.9	266.1	289.2	295.0	420.8	588.6	672.5	821.1	1118.3
117.5°	316.4	295.4	274.4	295.4	316.4	321.7	428.7	571.3	642.6	776.8	1045.0
120°	332.2	312.4	292.6	312.4	332.2	337.2	435.0	565.5	630.7	753.2	998.4
122.5°	350.6	330.6	310.6	330.6	350.6	355.5	444.2	562.4	621.5	731.8	952.6
125°	374.4	356.2	338.0	356.2	374.4	379.0	456.5	559.8	611.6	705.3	892.8
127.5°	397.0	378.6	360.2	378.6	397.0	401.6	468.8	558.4	603.2	683.7	844.7
130°	411.7	392.0	372.2	392.0	411.7	416.7	477.8	559.4	600.1	671.8	815.1
132.5°	424.1	404.3	384.5	404.3	424.1	429.1	485.1	559.8	597.2	661.4	789.7
135°	438.9	420.8	402.9	420.8	438.9	443.4	493.1	559.4	592.5	646.3	753.6
137.5°	457.2	439.4	421.5	439.4	457.2	461.7	505.0	562.8	591.7	637.1	727.9
140°	469.9	453.4	437.0	453.4	469.9	474.0	512.3	563.4	588.9	628.1	706.6
142.5°	479.3	464.1	448.9	464.1	479.3	483.2	518.4	565.4	588.9	623.3	692.2
145°	493.7	480.5	467.2	480.5	493.7	497.0	526.4	565.5	585.0	613.2	669.5
147.5°	511.3	498.5	485.6	498.5	511.3	514.5	538.0	569.3	585.0	607.2	651.5
150°	520.7	509.1	497.4	509.1	520.7	523.7	544.2	571.4	585.0	603.7	641.1
152.5°	527.4	518.5	509.7	518.5	527.4	529.6	548.1	572.6	585.0	600.9	632.9
155°	541.2	534.6	528.1	534.6	541.2	542.8	556.9	575.6	585.0	597.7	623.1
157.5°	554.3	548.0	541.6	548.0	554.3	555.9	565.6	578.5	585.0	594.8	614.6
160°	560.6	555.7	550.8	555.7	560.6	561.8	569.6	579.8	585.0	593.5	610.4
162.5°	567.3	563.6	559.8	563.6	567.3	568.2	573.8	581.2	585.0	592.1	606.4
165°	576.5	573.1	569.8	573.1	576.5	577.3	579.9	583.3	585.0	590.1	600.4
167.5°	582.2	580.6	579.0	580.6	582.2	582.6	584.7	587.5	588.9	592.2	598.9
170°	588.1	586.5	585.0	586.5	588.1	588.5	588.6	588.8	588.9	592.2	598.9
172.5°	588.8	588.5	588.1	588.5	588.8	588.9	588.9	588.9	588.9	591.6	596.8
175°	592.5	592.5	592.5	592.5	592.5	592.5	591.3	589.7	588.9	590.6	594.0
177.5°	592.5	592.5	592.5	592.5	592.5	592.5	591.6	590.3	589.7	591.0	593.7
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



TEST NUMBER: P935110  
 CATALOG NUMBER: SQ4-FA-100U-075D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	975.2	972.3	976.2	965.7	976.2	972.3	975.2	981.9	976.2	980.0	983.8
5°	855.7	850.9	835.6	823.2	835.6	850.9	855.7	875.8	885.4	902.6	925.5
7.5°	764.9	761.1	757.2	749.6	757.2	761.1	764.9	770.6	780.2	795.5	812.7
10°	744.8	745.8	751.5	750.6	751.5	745.8	744.8	742.9	740.0	742.9	753.4
12.5°	796.4	805.0	836.6	834.7	836.6	805.0	796.4	758.2	732.4	727.6	729.5
15°	855.7	858.6	865.3	866.2	865.3	858.6	855.7	840.4	763.0	729.5	719.0
17.5°	861.5	862.4	867.2	867.2	867.2	862.4	861.5	854.8	828.9	784.0	724.7
20°	856.7	858.6	868.1	870.1	868.1	858.6	856.7	848.1	833.7	817.5	772.5
22.5°	854.8	858.6	866.2	865.3	866.2	858.6	854.8	841.4	828.9	817.5	799.3
25°	845.2	845.2	846.2	847.1	846.2	845.2	845.2	834.7	809.8	807.0	796.4
27.5°	825.1	827.0	832.8	831.8	832.8	827.0	825.1	821.3	794.5	791.7	784.0
30°	807.0	805.0	800.3	796.4	800.3	805.0	807.0	801.2	774.5	766.8	768.7
32.5°	776.4	771.6	766.8	763.9	766.8	771.6	776.4	774.5	754.4	743.9	745.8
35°	740.0	741.0	740.0	737.2	740.0	741.0	740.0	742.0	729.5	720.0	719.0
37.5°	714.2	716.1	715.2	711.4	715.2	716.1	714.2	712.3	695.1	692.2	694.2
40°	687.5	688.4	687.5	684.6	687.5	688.4	687.5	683.6	659.7	660.7	667.4
42.5°	661.6	660.7	657.8	655.9	657.8	660.7	661.6	655.9	625.3	622.5	634.9
45°	632.0	633.0	627.2	624.4	627.2	633.0	632.0	628.2	596.6	589.0	597.6
47.5°	602.4	602.4	597.6	594.7	597.6	602.4	602.4	597.6	564.1	556.5	561.3
50°	570.8	569.9	563.2	562.2	563.2	569.9	570.8	568.0	532.6	525.9	525.9
52.5°	534.5	534.5	535.5	537.4	535.5	534.5	534.5	535.5	503.9	497.2	495.3
55°	503.0	503.9	510.6	512.5	510.6	503.9	503.0	503.0	474.3	467.6	463.8
57.5°	470.4	470.4	475.2	475.2	475.2	470.4	470.4	468.5	440.8	435.1	433.2
60°	433.2	435.1	438.9	437.9	438.9	435.1	433.2	431.3	407.4	403.5	396.8
62.5°	394.0	395.9	396.8	394.9	396.8	395.9	394.0	388.2	373.9	371.0	362.4
65°	352.9	354.8	355.7	353.8	355.7	354.8	352.9	350.0	339.4	334.6	327.0
67.5°	310.7	309.7	308.8	312.6	308.8	309.7	310.7	306.9	300.2	296.4	285.8
70°	267.7	267.7	266.7	268.6	266.7	267.7	267.7	264.8	261.0	258.1	248.6
72.5°	221.8	220.8	224.7	221.8	224.7	220.8	221.8	220.8	218.9	216.1	206.5
75°	176.9	178.8	176.9	179.7	176.9	178.8	176.9	177.8	176.9	174.9	168.3
77.5°	134.8	136.7	134.8	134.8	134.8	136.7	134.8	135.8	135.8	135.8	130.0
80°	95.6	94.6	94.6	93.7	94.6	94.6	95.6	95.6	96.6	94.6	92.7
82.5°	61.2	60.2	60.2	62.1	60.2	60.2	61.2	62.1	60.2	60.2	60.2
85°	33.5	34.4	32.5	32.5	32.5	34.4	33.5	31.5	33.5	33.5	32.5
87.5°	12.4	11.5	11.5	11.5	11.5	11.5	12.4	13.4	13.4	13.4	14.3
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0
92.5°	75.5	72.6	60.5	48.5	60.5	72.6	75.5	107.1	149.1	170.2	149.4
95°	256.5	247.4	211.0	174.6	211.0	247.4	256.5	336.8	443.9	497.4	420.1
97.5°	592.1	574.7	505.4	436.2	505.4	574.7	592.1	642.8	710.5	744.3	615.5
100°	831.4	810.8	728.3	645.8	728.3	810.8	831.4	827.7	822.8	820.3	677.3
102.5°	1035.8	1018.1	947.5	876.8	947.5	1018.1	1035.8	971.2	885.0	841.9	696.7
105°	1274.4	1265.0	1226.9	1189.0	1226.9	1265.0	1274.4	1129.4	936.1	839.5	698.9
107.5°	1398.5	1400.8	1410.0	1419.2	1410.0	1400.8	1398.5	1196.2	926.6	791.7	667.8
110°	1430.3	1440.2	1479.8	1519.4	1479.8	1440.2	1430.3	1204.2	902.7	751.9	640.2



TEST NUMBER: P935110

CATALOG NUMBER: SQ4-FA-100U-075D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1410.0	1425.2	1486.0	1546.8	1486.0	1425.2	1410.0	1178.6	870.1	715.8	616.1
115°	1341.3	1362.3	1446.6	1530.9	1446.6	1362.3	1341.3	1118.3	821.1	672.5	588.6
117.5°	1246.2	1269.6	1363.1	1456.6	1363.1	1269.6	1246.2	1045.0	776.8	642.6	571.3
120°	1182.2	1204.9	1295.8	1386.6	1295.8	1204.9	1182.2	998.4	753.2	630.7	565.5
122.5°	1118.1	1140.5	1230.2	1319.8	1230.2	1140.5	1118.1	952.6	731.8	621.5	562.4
125°	1033.4	1054.1	1136.6	1219.2	1136.6	1054.1	1033.4	892.8	705.3	611.6	559.8
127.5°	965.5	982.9	1052.6	1122.2	1052.6	982.9	965.5	844.7	683.7	603.2	558.4
130°	922.5	938.6	1002.9	1067.3	1002.9	938.6	922.5	815.1	671.8	600.1	559.4
132.5°	885.9	900.4	957.9	1015.6	957.9	900.4	885.9	789.7	661.4	597.2	559.8
135°	834.2	846.6	896.2	946.0	896.2	846.6	834.2	753.6	646.3	592.5	559.4
137.5°	796.1	806.2	846.9	887.6	846.9	806.2	796.1	727.9	637.1	591.7	562.8
140°	765.5	774.9	813.0	850.9	813.0	774.9	765.5	706.6	628.1	588.9	563.4
142.5°	744.0	752.2	784.9	817.6	784.9	752.2	744.0	692.2	623.3	588.9	565.4
145°	711.7	718.0	742.7	767.5	742.7	718.0	711.7	669.5	613.2	585.0	565.5
147.5°	684.8	689.9	710.4	730.9	710.4	689.9	684.8	651.5	607.2	585.0	569.3
150°	669.2	673.3	689.9	706.6	689.9	673.3	669.2	641.1	603.7	585.0	571.4
152.5°	656.9	660.0	672.5	685.2	672.5	660.0	656.9	632.9	600.9	585.0	572.6
155°	642.1	644.2	652.6	660.9	652.6	644.2	642.1	623.1	597.7	585.0	575.6
157.5°	629.4	630.9	636.8	642.6	636.8	630.9	629.4	614.6	594.8	585.0	578.5
160°	623.1	624.0	627.3	630.7	627.3	624.0	623.1	610.4	593.5	585.0	579.8
162.5°	617.1	617.9	621.1	624.3	621.1	617.9	617.1	606.4	592.1	585.0	581.2
165°	608.0	608.9	612.2	615.6	612.2	608.9	608.0	600.4	590.1	585.0	583.3
167.5°	604.0	604.4	605.7	607.2	605.7	604.4	604.0	598.9	592.2	588.9	587.5
170°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	598.9	592.2	588.9	588.8
172.5°	600.8	600.6	599.3	598.1	599.3	600.6	600.8	596.8	591.6	588.9	588.9
175°	596.4	596.4	596.4	596.4	596.4	596.4	596.4	594.0	590.6	588.9	589.7
177.5°	595.7	595.3	594.0	592.5	594.0	595.3	595.7	593.7	591.0	589.7	590.3
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



TEST NUMBER: P935110  
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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	998.2	1002.9	1005.8	1009.6	1019.2
5°	959.9	978.1	983.8	998.2	1015.4
7.5°	875.8	931.2	946.5	981.0	1007.7
10°	794.5	850.0	876.7	958.0	998.2
12.5°	753.4	785.9	804.1	917.9	984.8
15°	727.6	750.6	763.9	864.3	969.5
17.5°	707.5	723.8	733.3	811.7	948.4
20°	695.1	702.8	711.4	773.5	924.5
22.5°	686.5	681.7	688.4	746.7	892.0
25°	680.8	662.6	670.3	725.7	853.8
27.5°	685.5	645.4	648.3	706.6	813.7
30°	686.5	624.4	625.3	686.5	768.7
32.5°	679.8	602.4	603.3	661.6	718.1
35°	663.6	576.6	575.6	633.0	649.2
37.5°	641.6	548.8	548.8	601.4	573.7
40°	614.8	521.1	524.0	560.3	506.8
42.5°	582.3	491.5	495.3	505.8	457.1
45°	546.9	462.8	465.7	427.4	418.8
47.5°	507.7	433.2	434.1	354.8	406.4
50°	460.9	402.6	398.7	304.0	405.4
52.5°	419.8	369.1	357.6	275.3	368.2
55°	379.6	333.6	308.8	253.3	341.4
57.5°	344.3	287.8	263.9	227.5	335.6
60°	311.7	242.8	224.7	199.8	307.8
62.5°	284.9	209.4	205.5	180.7	279.2
65°	256.2	186.4	185.5	164.4	237.1
67.5°	228.5	171.1	170.2	149.1	180.7
70°	198.8	154.9	153.0	132.9	133.8
72.5°	168.3	136.7	134.8	119.5	110.9
75°	137.7	115.7	114.7	104.2	89.9
77.5°	108.0	91.8	93.7	84.1	66.0
80°	77.4	66.9	68.8	60.2	49.7
82.5°	51.6	44.0	45.9	38.2	33.5
85°	28.7	24.9	25.8	20.1	15.3
87.5°	13.4	11.5	11.5	7.6	4.8
90°	17.5	11.1	10.3	7.2	4.0
92.5°	107.9	76.8	70.0	42.9	15.9
95°	265.5	149.5	137.2	87.7	38.1
97.5°	357.6	164.2	153.3	109.7	66.0
100°	391.2	176.6	166.6	127.1	87.5
102.5°	406.6	188.9	179.6	142.7	105.7
105°	418.0	207.2	199.3	168.1	136.8
107.5°	420.1	234.2	227.0	197.8	168.6
110°	416.8	249.3	242.7	216.4	190.1



TEST NUMBER: P935110

CATALOG NUMBER: SQ4-FA-100U-075D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	417.0	267.6	261.3	236.2	211.2
115°	420.8	295.0	289.2	266.1	242.9
117.5°	428.7	321.7	316.4	295.4	274.4
120°	435.0	337.2	332.2	312.4	292.6
122.5°	444.2	355.5	350.6	330.6	310.6
125°	456.5	379.0	374.4	356.2	338.0
127.5°	468.8	401.6	397.0	378.6	360.2
130°	477.8	416.7	411.7	392.0	372.2
132.5°	485.1	429.1	424.1	404.3	384.5
135°	493.1	443.4	438.9	420.8	402.9
137.5°	505.0	461.7	457.2	439.4	421.5
140°	512.3	474.0	469.9	453.4	437.0
142.5°	518.4	483.2	479.3	464.1	448.9
145°	526.4	497.0	493.7	480.5	467.2
147.5°	538.0	514.5	511.3	498.5	485.6
150°	544.2	523.7	520.7	509.1	497.4
152.5°	548.1	529.6	527.4	518.5	509.7
155°	556.9	542.8	541.2	534.6	528.1
157.5°	565.6	555.9	554.3	548.0	541.6
160°	569.6	561.8	560.6	555.7	550.8
162.5°	573.8	568.2	567.3	563.6	559.8
165°	579.9	577.3	576.5	573.1	569.8
167.5°	584.7	582.6	582.2	580.6	579.0
170°	588.6	588.5	588.1	586.5	585.0
172.5°	588.9	588.9	588.8	588.5	588.1
175°	591.3	592.5	592.5	592.5	592.5
177.5°	591.6	592.5	592.5	592.5	592.5
180°	592.5	592.5	592.5	592.5	592.5



TEST NUMBER: P935110  
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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	11.63	12.41	12.67	13.46	14.85	14.43	15.21	15.46	16.25	17.65
	3H	12.10	12.80	13.15	13.85	15.27	15.76	16.46	16.80	17.51	18.93
	4H	12.29	12.95	13.35	14.01	15.43	16.19	16.86	17.25	17.91	19.33
	6H	12.41	13.02	13.47	14.07	15.51	16.46	17.08	17.53	18.13	19.57
	8H	12.40	12.99	13.47	14.06	15.49	16.53	17.11	17.60	18.19	19.62
	12H	12.37	12.93	13.45	13.99	15.45	16.56	17.12	17.64	18.18	19.64
4H	2H	12.65	13.31	13.71	14.36	15.79	14.83	15.49	15.89	16.55	17.97
	3H	13.67	14.22	14.74	15.30	16.74	16.32	16.87	17.39	17.95	19.39
	4H	13.94	14.45	15.01	15.52	16.98	16.84	17.34	17.91	18.41	19.87
	6H	14.06	14.50	15.14	15.59	17.04	17.19	17.62	18.27	18.72	20.17
	8H	14.06	14.47	15.15	15.56	17.03	17.29	17.70	18.37	18.78	20.25
	12H	14.03	14.39	15.13	15.49	16.97	17.34	17.70	18.44	18.80	20.28
8H	4H	14.38	14.79	15.47	15.87	17.34	16.96	17.36	18.04	18.45	19.92
	6H	14.64	14.97	15.75	16.10	17.57	17.38	17.72	18.49	18.84	20.31
	8H	14.68	14.98	15.80	16.08	17.57	17.53	17.82	18.64	18.93	20.42
	12H	14.66	14.92	15.78	16.03	17.55	17.62	17.87	18.73	18.98	20.51
12H	4H	14.38	14.75	15.49	15.85	17.32	16.92	17.28	18.02	18.38	19.86
	6H	14.70	14.99	15.81	16.10	17.59	17.38	17.67	18.49	18.78	20.27
	8H	14.76	15.02	15.88	16.12	17.65	17.53	17.79	18.65	18.89	20.42