

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: P934310

Luminaire Tested: SQ4-FA-050U-075D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

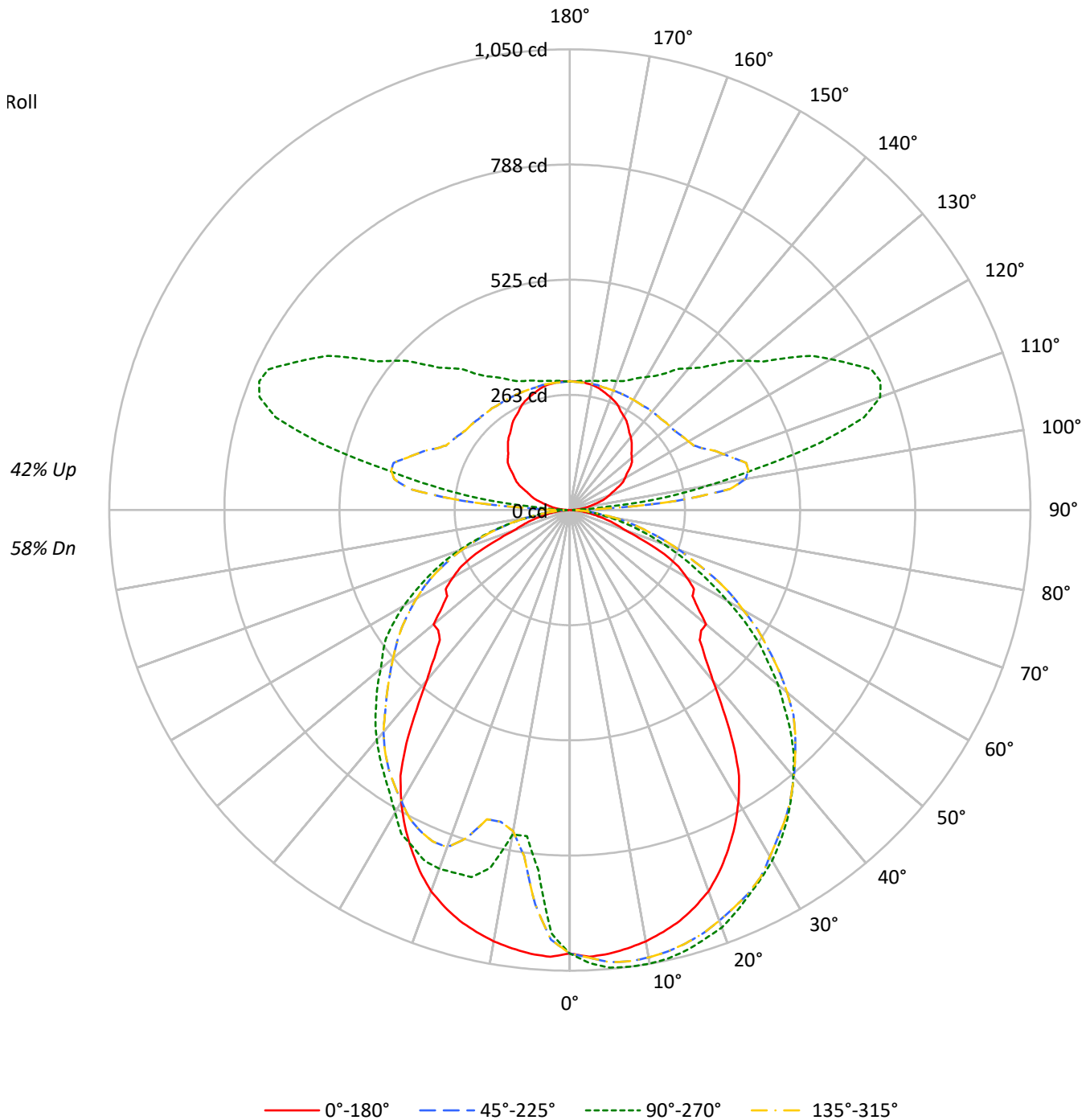
Test Method: LM-79-2019  
Report Number: P934310  
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4524.7 lumens  
Efficiency: N/A  
Efficacy: 124.3 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): 36.4  
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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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									20									20
RC	80									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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58																												
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49																												
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41																												
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35																												
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30																												
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26																												
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23																												
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20																												
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18																												
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16																												
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15																												

**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	2.0
10°-20°	259.0	5.7
20°-30°	400.4	8.8
30°-40°	478.0	10.6
40°-50°	480.8	10.6
50°-60°	418.4	9.2
60°-70°	296.6	6.6
70°-80°	156.9	3.5
80°-90°	40.2	0.9
90°-100°	143.1	3.2
100°-110°	376.3	8.3
110°-120°	390.1	8.6
120°-130°	312.9	6.9
130°-140°	245.5	5.4
140°-150°	188.5	4.2
150°-160°	135.7	3.0
160°-170°	83.0	1.8
170°-180°	28.1	0.6
0°-30°	750.6	16.6
0°-40°	1228.6	27.2
0°-60°	2127.8	47.0
0°-90°	2621.5	57.9
90°-120°	909.5	20.1
90°-150°	1656.4	36.6
90°-180°	1903.0	42.1
0°-180°	4524.7	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°	2	8	2	8	2	2
95°	19	86	19	86	19	21
105°	68	589	68	589	68	72
115°	120	759	120	759	120	119
125°	168	604	168	604	168	149
135°	200	469	200	469	200	154
145°	232	380	232	380	232	145
155°	262	328	262	328	262	120
165°	282	305	282	305	282	80
175°	294	296	294	296	294	28
180°	294	294	294	294	294	



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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°	2.0	3.5	5.2	5.5	8.7	12.9	15.0	13.3	9.9	7.5	7.5
92.5°	7.8	21.2	34.7	38.0	53.4	74.0	84.3	73.9	53.1	37.5	35.9
95°	18.9	43.4	68.0	74.1	131.5	208.1	246.5	219.9	166.8	127.1	122.6
97.5°	32.7	54.3	75.9	81.4	177.1	305.0	368.8	352.1	318.5	293.4	284.8
100°	43.3	62.9	82.6	87.5	193.8	335.6	406.5	407.7	410.2	412.0	401.8
102.5°	52.4	70.7	89.0	93.6	201.4	345.2	417.1	438.5	481.3	513.3	504.5
105°	67.8	83.3	98.8	102.7	207.1	346.4	416.0	463.9	559.6	631.5	626.8
107.5°	83.6	98.0	112.4	116.1	208.1	331.0	392.3	459.2	592.8	693.0	694.2
110°	94.2	107.2	120.3	123.5	206.6	317.3	372.6	447.3	596.7	708.8	713.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	104.6	117.0	129.4	132.6	206.6	305.3	354.7	431.2	584.0	698.7	706.3
115°	120.4	131.8	143.3	146.2	208.5	291.6	333.2	406.8	554.1	664.6	675.0
117.5°	135.9	146.4	156.8	159.4	212.4	283.1	318.4	384.9	517.8	617.5	629.0
120°	145.0	154.9	164.6	167.1	215.6	280.2	312.5	373.2	494.7	585.8	597.1
122.5°	153.9	163.9	173.7	176.2	220.1	278.7	307.9	362.6	472.1	554.1	565.2
125°	167.5	176.5	185.5	187.8	226.2	277.4	303.1	349.5	442.4	512.1	522.4
127.5°	178.5	187.7	196.7	199.0	232.3	276.8	298.9	338.8	418.5	478.4	487.0
130°	184.4	194.3	204.0	206.5	236.8	277.1	297.3	332.9	403.9	457.2	465.1
132.5°	190.5	200.4	210.1	212.6	240.4	277.4	296.0	327.7	391.3	439.0	446.2
135°	199.6	208.5	217.5	219.7	244.4	277.1	293.6	320.2	373.4	413.4	419.5
137.5°	208.9	217.7	226.6	228.8	250.3	278.9	293.2	315.7	360.7	394.4	399.5
140°	216.5	224.7	232.9	234.9	253.8	279.2	291.8	311.3	350.2	379.3	384.0
142.5°	222.5	230.0	237.5	239.4	256.9	280.1	291.8	308.9	343.0	368.6	372.6
145°	231.5	238.0	244.6	246.3	260.8	280.2	289.9	303.8	331.7	352.7	355.7
147.5°	240.6	247.0	253.3	255.0	266.6	282.1	289.9	300.9	322.8	339.3	341.9
150°	246.5	252.2	258.0	259.5	269.6	283.1	289.9	299.1	317.7	331.6	333.7
152.5°	252.6	257.0	261.4	262.4	271.6	283.7	289.9	297.8	313.7	325.5	327.0
155°	261.7	264.9	268.2	268.9	275.9	285.2	289.9	296.2	308.8	318.3	319.3
157.5°	268.3	271.5	274.7	275.4	280.2	286.6	289.9	294.7	304.6	311.9	312.7
160°	272.9	275.3	277.8	278.4	282.2	287.3	289.9	294.1	302.5	308.8	309.2
162.5°	277.4	279.2	281.1	281.5	284.3	288.0	289.9	293.4	300.5	305.8	306.2
165°	282.4	284.0	285.7	286.1	287.4	289.0	289.9	292.3	297.4	301.2	301.6
167.5°	286.9	287.7	288.4	288.6	289.7	291.1	291.8	293.5	296.8	299.3	299.5
170°	289.9	290.6	291.4	291.6	291.7	291.8	291.8	293.5	296.8	299.3	299.3
172.5°	291.4	291.6	291.8	291.8	291.8	291.8	291.8	293.1	295.7	297.7	297.5
175°	293.6	293.6	293.6	293.6	293.0	292.2	291.8	292.6	294.4	295.6	295.6
177.5°	293.6	293.6	293.6	293.6	293.1	292.5	292.2	292.9	294.3	295.2	295.0
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



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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°	7.5	7.5	7.5	7.5	7.5	9.9	13.3	15.0	12.9	8.7	5.5
92.5°	30.0	24.0	30.0	35.9	37.5	53.1	73.9	84.3	74.0	53.4	38.0
95°	104.5	86.5	104.5	122.6	127.1	166.8	219.9	246.5	208.1	131.5	74.1
97.5°	250.5	216.2	250.5	284.8	293.4	318.5	352.1	368.8	305.0	177.1	81.4
100°	360.9	320.0	360.9	401.8	412.0	410.2	407.7	406.5	335.6	193.8	87.5
102.5°	469.5	434.5	469.5	504.5	513.3	481.3	438.5	417.1	345.2	201.4	93.6
105°	608.0	589.2	608.0	626.8	631.5	559.6	463.9	416.0	346.4	207.1	102.7
107.5°	698.6	703.2	698.6	694.2	693.0	592.8	459.2	392.3	331.0	208.1	116.1
110°	733.3	752.8	733.3	713.7	708.8	596.7	447.3	372.6	317.3	206.6	123.5





TEST NUMBER: P934310

CATALOG NUMBER: SQ4-FA-050U-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°	736.4	766.5	736.4	706.3	698.7	584.0	431.2	354.7	305.3	206.6	132.6
115°	716.8	758.6	716.8	675.0	664.6	554.1	406.8	333.2	291.6	208.5	146.2
117.5°	675.4	721.8	675.4	629.0	617.5	517.8	384.9	318.4	283.1	212.4	159.4
120°	642.0	687.1	642.0	597.1	585.8	494.7	373.2	312.5	280.2	215.6	167.1
122.5°	609.6	654.0	609.6	565.2	554.1	472.1	362.6	307.9	278.7	220.1	176.2
125°	563.2	604.1	563.2	522.4	512.1	442.4	349.5	303.1	277.4	226.2	187.8
127.5°	521.5	556.0	521.5	487.0	478.4	418.5	338.8	298.9	276.8	232.3	199.0
130°	497.0	528.9	497.0	465.1	457.2	403.9	332.9	297.3	277.1	236.8	206.5
132.5°	474.7	503.2	474.7	446.2	439.0	391.3	327.7	296.0	277.4	240.4	212.6
135°	444.2	468.7	444.2	419.5	413.4	373.4	320.2	293.6	277.1	244.4	219.7
137.5°	419.6	439.8	419.6	399.5	394.4	360.7	315.7	293.2	278.9	250.3	228.8
140°	402.9	421.7	402.9	384.0	379.3	350.2	311.3	291.8	279.2	253.8	234.9
142.5°	388.9	405.2	388.9	372.6	368.6	343.0	308.9	291.8	280.1	256.9	239.4
145°	368.1	380.3	368.1	355.7	352.7	331.7	303.8	289.9	280.2	260.8	246.3
147.5°	352.0	362.1	352.0	341.9	339.3	322.8	300.9	289.9	282.1	266.6	255.0
150°	342.0	350.2	342.0	333.7	331.6	317.7	299.1	289.9	283.1	269.6	259.5
152.5°	333.3	339.5	333.3	327.0	325.5	313.7	297.8	289.9	283.7	271.6	262.4
155°	323.4	327.5	323.4	319.3	318.3	308.8	296.2	289.9	285.2	275.9	268.9
157.5°	315.6	318.4	315.6	312.7	311.9	304.6	294.7	289.9	286.6	280.2	275.4
160°	310.9	312.5	310.9	309.2	308.8	302.5	294.1	289.9	287.3	282.2	278.4
162.5°	307.8	309.4	307.8	306.2	305.8	300.5	293.4	289.9	288.0	284.3	281.5
165°	303.3	305.1	303.3	301.6	301.2	297.4	292.3	289.9	289.0	287.4	286.1
167.5°	300.2	300.9	300.2	299.5	299.3	296.8	293.5	291.8	291.1	289.7	288.6
170°	299.3	299.3	299.3	299.3	299.3	296.8	293.5	291.8	291.8	291.7	291.6
172.5°	296.9	296.4	296.9	297.5	297.7	295.7	293.1	291.8	291.8	291.8	291.8
175°	295.6	295.6	295.6	295.6	295.6	294.4	292.6	291.8	292.2	293.0	293.6
177.5°	294.4	293.6	294.4	295.0	295.2	294.3	292.9	292.2	292.5	293.1	293.6
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934310  
 CATALOG NUMBER: SQ4-FA-050U-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°	5.2	3.5	2.0	3.5	5.2	5.5	8.7	12.9	15.0	13.3	9.9
92.5°	34.7	21.2	7.8	21.2	34.7	38.0	53.4	74.0	84.3	73.9	53.1
95°	68.0	43.4	18.9	43.4	68.0	74.1	131.5	208.1	246.5	219.9	166.8
97.5°	75.9	54.3	32.7	54.3	75.9	81.4	177.1	305.0	368.8	352.1	318.5
100°	82.6	62.9	43.3	62.9	82.6	87.5	193.8	335.6	406.5	407.7	410.2
102.5°	89.0	70.7	52.4	70.7	89.0	93.6	201.4	345.2	417.1	438.5	481.3
105°	98.8	83.3	67.8	83.3	98.8	102.7	207.1	346.4	416.0	463.9	559.6
107.5°	112.4	98.0	83.6	98.0	112.4	116.1	208.1	331.0	392.3	459.2	592.8
110°	120.3	107.2	94.2	107.2	120.3	123.5	206.6	317.3	372.6	447.3	596.7



TEST NUMBER: P934310  
 CATALOG NUMBER: SQ4-FA-050U-075D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	129.4	117.0	104.6	117.0	129.4	132.6	206.6	305.3	354.7	431.2	584.0
115°	143.3	131.8	120.4	131.8	143.3	146.2	208.5	291.6	333.2	406.8	554.1
117.5°	156.8	146.4	135.9	146.4	156.8	159.4	212.4	283.1	318.4	384.9	517.8
120°	164.6	154.9	145.0	154.9	164.6	167.1	215.6	280.2	312.5	373.2	494.7
122.5°	173.7	163.9	153.9	163.9	173.7	176.2	220.1	278.7	307.9	362.6	472.1
125°	185.5	176.5	167.5	176.5	185.5	187.8	226.2	277.4	303.1	349.5	442.4
127.5°	196.7	187.7	178.5	187.7	196.7	199.0	232.3	276.8	298.9	338.8	418.5
130°	204.0	194.3	184.4	194.3	204.0	206.5	236.8	277.1	297.3	332.9	403.9
132.5°	210.1	200.4	190.5	200.4	210.1	212.6	240.4	277.4	296.0	327.7	391.3
135°	217.5	208.5	199.6	208.5	217.5	219.7	244.4	277.1	293.6	320.2	373.4
137.5°	226.6	217.7	208.9	217.7	226.6	228.8	250.3	278.9	293.2	315.7	360.7
140°	232.9	224.7	216.5	224.7	232.9	234.9	253.8	279.2	291.8	311.3	350.2
142.5°	237.5	230.0	222.5	230.0	237.5	239.4	256.9	280.1	291.8	308.9	343.0
145°	244.6	238.0	231.5	238.0	244.6	246.3	260.8	280.2	289.9	303.8	331.7
147.5°	253.3	247.0	240.6	247.0	253.3	255.0	266.6	282.1	289.9	300.9	322.8
150°	258.0	252.2	246.5	252.2	258.0	259.5	269.6	283.1	289.9	299.1	317.7
152.5°	261.4	257.0	252.6	257.0	261.4	262.4	271.6	283.7	289.9	297.8	313.7
155°	268.2	264.9	261.7	264.9	268.2	268.9	275.9	285.2	289.9	296.2	308.8
157.5°	274.7	271.5	268.3	271.5	274.7	275.4	280.2	286.6	289.9	294.7	304.6
160°	277.8	275.3	272.9	275.3	277.8	278.4	282.2	287.3	289.9	294.1	302.5
162.5°	281.1	279.2	277.4	279.2	281.1	281.5	284.3	288.0	289.9	293.4	300.5
165°	285.7	284.0	282.4	284.0	285.7	286.1	287.4	289.0	289.9	292.3	297.4
167.5°	288.4	287.7	286.9	287.7	288.4	288.6	289.7	291.1	291.8	293.5	296.8
170°	291.4	290.6	289.9	290.6	291.4	291.6	291.7	291.8	291.8	293.5	296.8
172.5°	291.8	291.6	291.4	291.6	291.8	291.8	291.8	291.8	291.8	293.1	295.7
175°	293.6	293.6	293.6	293.6	293.6	293.6	293.0	292.2	291.8	292.6	294.4
177.5°	293.6	293.6	293.6	293.6	293.6	293.6	293.1	292.5	292.2	292.9	294.3
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934310  
 CATALOG NUMBER: SQ4-FA-050U-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°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.9	13.3	15.0	12.9
92.5°	37.5	35.9	30.0	24.0	30.0	35.9	37.5	53.1	73.9	84.3	74.0
95°	127.1	122.6	104.5	86.5	104.5	122.6	127.1	166.8	219.9	246.5	208.1
97.5°	293.4	284.8	250.5	216.2	250.5	284.8	293.4	318.5	352.1	368.8	305.0
100°	412.0	401.8	360.9	320.0	360.9	401.8	412.0	410.2	407.7	406.5	335.6
102.5°	513.3	504.5	469.5	434.5	469.5	504.5	513.3	481.3	438.5	417.1	345.2
105°	631.5	626.8	608.0	589.2	608.0	626.8	631.5	559.6	463.9	416.0	346.4
107.5°	693.0	694.2	698.6	703.2	698.6	694.2	693.0	592.8	459.2	392.3	331.0
110°	708.8	713.7	733.3	752.8	733.3	713.7	708.8	596.7	447.3	372.6	317.3



TEST NUMBER: P934310

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	698.7	706.3	736.4	766.5	736.4	706.3	698.7	584.0	431.2	354.7	305.3
115°	664.6	675.0	716.8	758.6	716.8	675.0	664.6	554.1	406.8	333.2	291.6
117.5°	617.5	629.0	675.4	721.8	675.4	629.0	617.5	517.8	384.9	318.4	283.1
120°	585.8	597.1	642.0	687.1	642.0	597.1	585.8	494.7	373.2	312.5	280.2
122.5°	554.1	565.2	609.6	654.0	609.6	565.2	554.1	472.1	362.6	307.9	278.7
125°	512.1	522.4	563.2	604.1	563.2	522.4	512.1	442.4	349.5	303.1	277.4
127.5°	478.4	487.0	521.5	556.0	521.5	487.0	478.4	418.5	338.8	298.9	276.8
130°	457.2	465.1	497.0	528.9	497.0	465.1	457.2	403.9	332.9	297.3	277.1
132.5°	439.0	446.2	474.7	503.2	474.7	446.2	439.0	391.3	327.7	296.0	277.4
135°	413.4	419.5	444.2	468.7	444.2	419.5	413.4	373.4	320.2	293.6	277.1
137.5°	394.4	399.5	419.6	439.8	419.6	399.5	394.4	360.7	315.7	293.2	278.9
140°	379.3	384.0	402.9	421.7	402.9	384.0	379.3	350.2	311.3	291.8	279.2
142.5°	368.6	372.6	388.9	405.2	388.9	372.6	368.6	343.0	308.9	291.8	280.1
145°	352.7	355.7	368.1	380.3	368.1	355.7	352.7	331.7	303.8	289.9	280.2
147.5°	339.3	341.9	352.0	362.1	352.0	341.9	339.3	322.8	300.9	289.9	282.1
150°	331.6	333.7	342.0	350.2	342.0	333.7	331.6	317.7	299.1	289.9	283.1
152.5°	325.5	327.0	333.3	339.5	333.3	327.0	325.5	313.7	297.8	289.9	283.7
155°	318.3	319.3	323.4	327.5	323.4	319.3	318.3	308.8	296.2	289.9	285.2
157.5°	311.9	312.7	315.6	318.4	315.6	312.7	311.9	304.6	294.7	289.9	286.6
160°	308.8	309.2	310.9	312.5	310.9	309.2	308.8	302.5	294.1	289.9	287.3
162.5°	305.8	306.2	307.8	309.4	307.8	306.2	305.8	300.5	293.4	289.9	288.0
165°	301.2	301.6	303.3	305.1	303.3	301.6	301.2	297.4	292.3	289.9	289.0
167.5°	299.3	299.5	300.2	300.9	300.2	299.5	299.3	296.8	293.5	291.8	291.1
170°	299.3	299.3	299.3	299.3	299.3	299.3	299.3	296.8	293.5	291.8	291.8
172.5°	297.7	297.5	296.9	296.4	296.9	297.5	297.7	295.7	293.1	291.8	291.8
175°	295.6	295.6	295.6	295.6	295.6	295.6	295.6	294.4	292.6	291.8	292.2
177.5°	295.2	295.0	294.4	293.6	294.4	295.0	295.2	294.3	292.9	292.2	292.5
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



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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°	8.7	5.5	5.2	3.5	2.0
92.5°	53.4	38.0	34.7	21.2	7.8
95°	131.5	74.1	68.0	43.4	18.9
97.5°	177.1	81.4	75.9	54.3	32.7
100°	193.8	87.5	82.6	62.9	43.3
102.5°	201.4	93.6	89.0	70.7	52.4
105°	207.1	102.7	98.8	83.3	67.8
107.5°	208.1	116.1	112.4	98.0	83.6
110°	206.6	123.5	120.3	107.2	94.2



TEST NUMBER: P934310

CATALOG NUMBER: SQ4-FA-050U-075D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	206.6	132.6	129.4	117.0	104.6
115°	208.5	146.2	143.3	131.8	120.4
117.5°	212.4	159.4	156.8	146.4	135.9
120°	215.6	167.1	164.6	154.9	145.0
122.5°	220.1	176.2	173.7	163.9	153.9
125°	226.2	187.8	185.5	176.5	167.5
127.5°	232.3	199.0	196.7	187.7	178.5
130°	236.8	206.5	204.0	194.3	184.4
132.5°	240.4	212.6	210.1	200.4	190.5
135°	244.4	219.7	217.5	208.5	199.6
137.5°	250.3	228.8	226.6	217.7	208.9
140°	253.8	234.9	232.9	224.7	216.5
142.5°	256.9	239.4	237.5	230.0	222.5
145°	260.8	246.3	244.6	238.0	231.5
147.5°	266.6	255.0	253.3	247.0	240.6
150°	269.6	259.5	258.0	252.2	246.5
152.5°	271.6	262.4	261.4	257.0	252.6
155°	275.9	268.9	268.2	264.9	261.7
157.5°	280.2	275.4	274.7	271.5	268.3
160°	282.2	278.4	277.8	275.3	272.9
162.5°	284.3	281.5	281.1	279.2	277.4
165°	287.4	286.1	285.7	284.0	282.4
167.5°	289.7	288.6	288.4	287.7	286.9
170°	291.7	291.6	291.4	290.6	289.9
172.5°	291.8	291.8	291.8	291.6	291.4
175°	293.0	293.6	293.6	293.6	293.6
177.5°	293.1	293.6	293.6	293.6	293.6
180°	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934310  
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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	13.27	14.21	14.16	15.12	16.27	16.07	17.01	16.96	17.91	19.07
	3H	13.76	14.60	14.65	15.51	16.69	17.41	18.25	18.31	19.17	20.35
	4H	13.95	14.74	14.86	15.67	16.85	17.85	18.65	18.77	19.57	20.76
	6H	14.07	14.81	15.00	15.73	16.93	18.13	18.87	19.06	19.79	20.99
	8H	14.08	14.77	15.01	15.72	16.92	18.21	18.90	19.14	19.85	21.05
	12H	14.05	14.71	14.99	15.65	16.88	18.24	18.91	19.18	19.84	21.07
4H	2H	14.31	15.10	15.23	16.02	17.21	16.49	17.28	17.41	18.21	19.39
	3H	15.34	16.00	16.27	16.95	18.16	17.99	18.66	18.92	19.61	20.81
	4H	15.62	16.22	16.56	17.17	18.40	18.52	19.12	19.46	20.07	21.30
	6H	15.75	16.27	16.70	17.24	18.47	18.88	19.40	19.83	20.37	21.60
	8H	15.76	16.24	16.71	17.21	18.45	18.98	19.47	19.94	20.43	21.68
	12H	15.73	16.17	16.70	17.15	18.40	19.04	19.48	20.01	20.46	21.71
8H	4H	16.07	16.56	17.03	17.53	18.77	18.65	19.14	19.60	20.10	21.34
	6H	16.34	16.74	17.32	17.75	18.99	19.08	19.48	20.06	20.49	21.73
	8H	16.38	16.74	17.37	17.73	18.99	19.23	19.58	20.22	20.58	21.84
	12H	16.37	16.68	17.36	17.67	18.98	19.32	19.64	20.32	20.63	21.93
12H	4H	16.08	16.52	17.06	17.50	18.75	18.62	19.06	19.59	20.04	21.29
	6H	16.40	16.75	17.39	17.75	19.01	19.08	19.43	20.07	20.43	21.69
	8H	16.47	16.78	17.46	17.77	19.08	19.24	19.55	20.23	20.54	21.85