

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: P934336

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934336
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-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

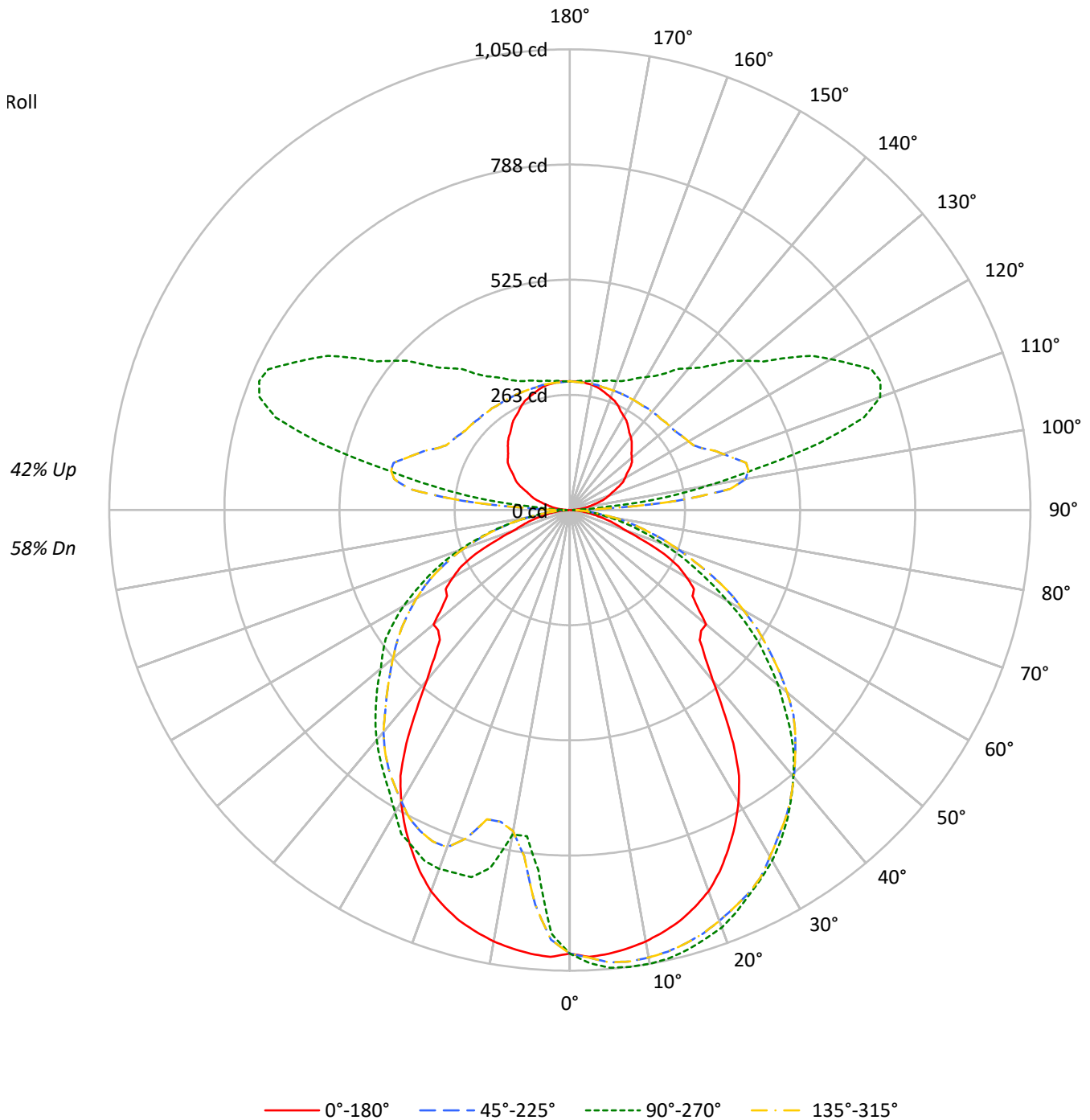
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4525.6 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

TEST NUMBER: P934336
CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9379	9379	9379	9379
5°	9439	9469	9439	7445
10°	9366	9327	9366	6668
15°	9254	9126	9254	7619
20°	9049	8885	9049	7635
25°	8643	8536	8643	7473
30°	8121	8246	8121	7118
35°	7230	7879	7230	6728
40°	6014	7448	6014	6433
45°	5363	6943	5363	6094
50°	5684	6340	5684	5753
55°	5334	5691	5334	5556
60°	5477	4833	5477	5089
65°	4941	3995	4941	4467
70°	3399	3183	3399	3743
75°	2948	2353	2948	2819
80°	2326	1557	2326	1694
85°	1267	823	1267	700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8235 cd/sqm



TEST NUMBER: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	2.0
10°-20°	259.1	5.7
20°-30°	400.5	8.8
30°-40°	478.1	10.6
40°-50°	480.9	10.6
50°-60°	418.4	9.2
60°-70°	296.7	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°	390.2	8.6
120°-130°	313.0	6.9
130°-140°	245.6	5.4
140°-150°	188.5	4.2
150°-160°	135.8	3.0
160°-170°	83.1	1.8
170°-180°	28.1	0.6
0°-30°	750.8	16.6
0°-40°	1228.9	27.2
0°-60°	2128.2	47.0
0°-90°	2622.0	57.9
90°-120°	909.6	20.1
90°-150°	1656.7	36.6
90°-180°	1904.0	42.1
0°-180°	4525.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1011	1011	1011	1011	1011	
5°	1016	1047	1016	823	1016	96
15°	970	1038	970	866	970	273
25°	854	968	854	847	854	392
35°	649	864	649	737	649	402
45°	419	712	419	624	419	336
55°	342	525	342	513	342	314
65°	237	316	237	354	237	227
75°	90	150	90	180	90	95
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	



TEST NUMBER: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1019.4	1019.4	1025.2	1027.1	1027.1	1024.3	1021.4	1024.3	1032.9	1035.7	1034.8
5°	1015.6	1023.3	1033.8	1035.7	1037.7	1036.7	1034.8	1036.7	1046.3	1048.2	1049.1
7.5°	1007.9	1022.4	1035.7	1038.6	1041.5	1038.6	1037.7	1039.6	1049.1	1051.0	1051.0
10°	998.4	1018.4	1033.8	1035.7	1038.6	1035.7	1035.7	1039.6	1049.1	1051.0	1052.0
12.5°	985.0	1012.7	1027.1	1029.1	1032.9	1031.9	1031.0	1034.8	1044.4	1046.3	1046.3
15°	969.7	1002.2	1015.6	1017.5	1024.3	1022.4	1022.4	1026.2	1036.7	1039.6	1038.6
17.5°	948.6	988.8	1004.1	1007.0	1011.7	1010.8	1011.7	1015.6	1025.2	1027.1	1028.1
20°	924.7	970.6	988.8	991.7	996.4	996.4	996.4	1001.2	1010.8	1014.6	1014.6
22.5°	892.2	951.5	970.6	972.5	978.3	978.3	980.2	986.9	995.5	996.4	996.4
25°	854.0	930.5	946.7	952.5	958.2	961.1	963.9	967.8	970.6	969.7	970.6
27.5°	813.8	903.7	924.7	928.6	936.2	939.1	942.9	943.9	944.8	947.7	945.8
30°	768.9	866.4	898.0	901.8	914.2	916.1	912.3	914.2	919.0	920.9	922.8
32.5°	718.2	810.9	870.2	878.8	890.3	884.6	883.6	886.5	894.1	894.1	896.0
35°	649.4	767.9	844.4	852.1	860.7	854.0	857.8	858.8	863.5	866.4	865.5
37.5°	573.8	730.6	817.6	823.4	830.1	821.5	827.2	830.1	833.9	832.0	832.0
40°	506.9	672.3	786.1	789.9	795.6	789.0	794.7	796.6	798.5	796.6	795.6
42.5°	457.2	608.2	752.6	757.4	753.6	758.4	760.3	764.1	761.2	757.4	757.4
45°	418.9	591.0	716.3	722.0	716.3	723.9	726.8	726.8	718.2	716.3	715.3
47.5°	406.5	556.6	679.9	679.9	677.1	686.6	691.4	684.7	676.1	673.3	673.3
50°	405.5	518.4	630.2	626.4	639.8	651.3	646.5	639.8	633.1	622.6	622.6
52.5°	368.2	471.5	566.2	580.5	601.5	608.2	600.6	593.9	582.4	577.6	573.8
55°	341.5	422.7	507.8	536.5	558.5	567.1	552.8	546.1	528.9	526.0	524.1
57.5°	335.6	352.0	454.3	490.6	517.4	516.4	507.8	495.4	481.1	478.2	477.2
60°	307.9	254.3	396.9	439.9	467.7	464.8	457.2	445.7	432.3	430.4	428.5
62.5°	279.2	184.5	331.8	380.7	419.9	418.9	412.2	395.0	385.4	380.7	376.8
65°	237.1	154.9	236.2	316.5	373.0	374.9	360.6	348.1	337.5	331.8	330.8
67.5°	180.7	126.2	159.7	263.9	328.0	326.1	307.9	302.2	288.8	285.9	280.2
70°	133.9	84.1	110.9	214.2	284.0	279.2	264.9	258.2	245.7	239.0	235.2
72.5°	110.9	67.9	81.3	166.4	239.0	233.3	220.9	213.2	202.7	197.0	193.2
75°	89.9	71.7	62.2	123.3	194.1	190.3	178.8	171.2	162.6	154.9	155.9
77.5°	66.0	66.9	49.7	90.8	153.9	148.2	141.5	132.0	128.1	120.5	120.5
80°	49.7	52.6	37.3	62.2	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	38.1	53.5	74.0	84.3	73.9	53.1	37.5	36.0
95°	18.9	43.4	68.0	74.1	131.6	208.2	246.5	219.9	166.9	127.1	122.6
97.5°	32.7	54.3	75.9	81.4	177.2	305.0	368.9	352.2	318.6	293.5	284.8
100°	43.3	62.9	82.6	87.5	193.8	335.6	406.6	407.8	410.3	412.1	401.9
102.5°	52.4	70.8	89.0	93.6	201.5	345.3	417.2	438.6	481.3	513.4	504.6
105°	67.8	83.3	98.8	102.7	207.1	346.4	416.0	463.9	559.8	631.7	627.0
107.5°	83.6	98.0	112.4	116.1	208.2	331.0	392.4	459.3	592.9	693.1	694.3
110°	94.2	107.2	120.3	123.5	206.6	317.4	372.7	447.4	596.9	708.9	713.8



TEST NUMBER: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	104.6	117.0	129.5	132.6	206.6	305.4	354.7	431.2	584.1	698.9	706.4
115°	120.4	131.9	143.3	146.2	208.5	291.6	333.2	406.9	554.2	664.7	675.2
117.5°	136.0	146.4	156.8	159.4	212.5	283.1	318.5	385.0	517.9	617.6	629.2
120°	145.1	154.9	164.7	167.1	215.6	280.3	312.6	373.3	494.8	586.0	597.2
122.5°	153.9	163.9	173.7	176.2	220.1	278.7	308.0	362.7	472.2	554.2	565.3
125°	167.5	176.5	185.5	187.8	226.2	277.5	303.1	349.6	442.5	512.2	522.5
127.5°	178.5	187.7	196.8	199.1	232.4	276.8	299.0	338.9	418.6	478.5	487.1
130°	184.4	194.3	204.1	206.5	236.8	277.2	297.4	332.9	404.0	457.3	465.2
132.5°	190.6	200.4	210.2	212.7	240.5	277.5	296.0	327.8	391.4	439.1	446.3
135°	199.7	208.5	217.5	219.7	244.4	277.2	293.6	320.2	373.5	413.5	419.6
137.5°	208.9	217.7	226.6	228.8	250.3	278.9	293.3	315.7	360.8	394.5	399.6
140°	216.6	224.7	232.9	234.9	253.9	279.2	291.8	311.3	350.3	379.4	384.1
142.5°	222.5	230.1	237.5	239.4	256.9	280.2	291.8	308.9	343.1	368.7	372.7
145°	231.6	238.1	244.7	246.3	260.8	280.3	289.9	303.9	331.8	352.7	355.8
147.5°	240.7	247.1	253.4	255.0	266.7	282.2	289.9	300.9	322.9	339.4	341.9
150°	246.5	252.2	258.1	259.5	269.6	283.1	289.9	299.2	317.7	331.7	333.8
152.5°	252.6	257.0	261.4	262.5	271.7	283.8	289.9	297.9	313.7	325.6	327.1
155°	261.7	265.0	268.2	269.0	276.0	285.2	289.9	296.2	308.9	318.3	319.4
157.5°	268.4	271.6	274.7	275.5	280.3	286.7	289.9	294.8	304.6	312.0	312.8
160°	273.0	275.4	277.9	278.4	282.3	287.3	289.9	294.1	302.5	308.9	309.2
162.5°	277.5	279.3	281.1	281.6	284.4	288.1	289.9	293.5	300.5	305.9	306.3
165°	282.5	284.1	285.8	286.2	287.4	289.1	289.9	292.4	297.5	301.3	301.7
167.5°	287.0	287.7	288.5	288.7	289.7	291.2	291.8	293.6	296.9	299.4	299.6
170°	289.9	290.7	291.4	291.6	291.7	291.8	291.8	293.6	296.9	299.4	299.4
172.5°	291.4	291.6	291.8	291.8	291.8	291.8	291.8	293.2	295.8	297.8	297.6
175°	293.6	293.6	293.6	293.6	293.1	292.2	291.8	292.7	294.4	295.7	295.7
177.5°	293.6	293.6	293.6	293.6	293.2	292.6	292.3	293.0	294.3	295.3	295.1
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: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1036.7	1033.8	1036.7	1034.8	1035.7	1032.9	1024.3	1021.4	1024.3	1027.1	1027.1
5°	1049.1	1047.2	1049.1	1049.1	1048.2	1046.3	1036.7	1034.8	1036.7	1037.7	1035.7
7.5°	1053.0	1050.1	1053.0	1051.0	1051.0	1049.1	1039.6	1037.7	1038.6	1041.5	1038.6
10°	1053.0	1050.1	1053.0	1052.0	1051.0	1049.1	1039.6	1035.7	1035.7	1038.6	1035.7
12.5°	1048.2	1046.3	1048.2	1046.3	1046.3	1044.4	1034.8	1031.0	1031.9	1032.9	1029.1
15°	1040.5	1037.7	1040.5	1038.6	1039.6	1036.7	1026.2	1022.4	1022.4	1024.3	1017.5
17.5°	1029.1	1025.2	1029.1	1028.1	1027.1	1025.2	1015.6	1011.7	1010.8	1011.7	1007.0
20°	1015.6	1012.7	1015.6	1014.6	1014.6	1010.8	1001.2	996.4	996.4	996.4	991.7
22.5°	994.5	991.7	994.5	996.4	996.4	995.5	986.9	980.2	978.3	978.3	972.5
25°	970.6	967.8	970.6	970.6	969.7	970.6	967.8	963.9	961.1	958.2	952.5
27.5°	947.7	945.8	947.7	945.8	947.7	944.8	943.9	942.9	939.1	936.2	928.6
30°	924.7	922.8	924.7	922.8	920.9	919.0	914.2	912.3	916.1	914.2	901.8
32.5°	896.0	894.1	896.0	896.0	894.1	894.1	886.5	883.6	884.6	890.3	878.8
35°	866.4	863.5	866.4	865.5	866.4	863.5	858.8	857.8	854.0	860.7	852.1
37.5°	832.0	829.1	832.0	832.0	832.0	833.9	830.1	827.2	821.5	830.1	823.4
40°	796.6	792.8	796.6	795.6	796.6	798.5	796.6	794.7	789.0	795.6	789.9
42.5°	756.4	755.5	756.4	757.4	757.4	761.2	764.1	760.3	758.4	753.6	757.4
45°	713.4	711.5	713.4	715.3	716.3	718.2	726.8	726.8	723.9	716.3	722.0
47.5°	667.5	662.7	667.5	673.3	673.3	676.1	684.7	691.4	686.6	677.1	679.9
50°	618.8	619.7	618.8	622.6	622.6	633.1	639.8	646.5	651.3	639.8	626.4
52.5°	570.9	570.0	570.9	573.8	577.6	582.4	593.9	600.6	608.2	601.5	580.5
55°	523.1	525.0	523.1	524.1	526.0	528.9	546.1	552.8	567.1	558.5	536.5
57.5°	475.3	472.5	475.3	477.2	478.2	481.1	495.4	507.8	516.4	517.4	490.6
60°	419.9	416.0	419.9	428.5	430.4	432.3	445.7	457.2	464.8	467.7	439.9
62.5°	371.1	364.4	371.1	376.8	380.7	385.4	395.0	412.2	418.9	419.9	380.7
65°	319.4	316.5	319.4	330.8	331.8	337.5	348.1	360.6	374.9	373.0	316.5
67.5°	272.5	272.5	272.5	280.2	285.9	288.8	302.2	307.9	326.1	328.0	263.9
70°	229.5	228.5	229.5	235.2	239.0	245.7	258.2	264.9	279.2	284.0	214.2
72.5°	188.4	187.4	188.4	193.2	197.0	202.7	213.2	220.9	233.3	239.0	166.4
75°	152.0	150.1	152.0	155.9	154.9	162.6	171.2	178.8	190.3	194.1	123.3
77.5°	116.7	116.7	116.7	120.5	120.5	128.1	132.0	141.5	148.2	153.9	90.8
80°	87.0	86.1	87.0	88.0	88.0	91.8	98.5	105.2	110.9	110.9	62.2
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	36.0	37.5	53.1	73.9	84.3	74.0	53.5	38.1
95°	104.5	86.5	104.5	122.6	127.1	166.9	219.9	246.5	208.2	131.6	74.1
97.5°	250.5	216.2	250.5	284.8	293.5	318.6	352.2	368.9	305.0	177.2	81.4
100°	361.0	320.0	361.0	401.9	412.1	410.3	407.8	406.6	335.6	193.8	87.5
102.5°	469.6	434.6	469.6	504.6	513.4	481.3	438.6	417.2	345.3	201.5	93.6
105°	608.1	589.3	608.1	627.0	631.7	559.8	463.9	416.0	346.4	207.1	102.7
107.5°	698.8	703.4	698.8	694.3	693.1	592.9	459.3	392.4	331.0	208.2	116.1
110°	733.4	753.0	733.4	713.8	708.9	596.9	447.4	372.7	317.4	206.6	123.5



TEST NUMBER: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	736.6	766.7	736.6	706.4	698.9	584.1	431.2	354.7	305.4	206.6	132.6
115°	717.0	758.7	717.0	675.2	664.7	554.2	406.9	333.2	291.6	208.5	146.2
117.5°	675.6	721.9	675.6	629.2	617.6	517.9	385.0	318.5	283.1	212.5	159.4
120°	642.2	687.2	642.2	597.2	586.0	494.8	373.3	312.6	280.3	215.6	167.1
122.5°	609.8	654.1	609.8	565.3	554.2	472.2	362.7	308.0	278.7	220.1	176.2
125°	563.3	604.2	563.3	522.5	512.2	442.5	349.6	303.1	277.5	226.2	187.8
127.5°	521.6	556.1	521.6	487.1	478.5	418.6	338.9	299.0	276.8	232.4	199.1
130°	497.1	529.0	497.1	465.2	457.3	404.0	332.9	297.4	277.2	236.8	206.5
132.5°	474.7	503.3	474.7	446.3	439.1	391.4	327.8	296.0	277.5	240.5	212.7
135°	444.2	468.8	444.2	419.6	413.5	373.5	320.2	293.6	277.2	244.4	219.7
137.5°	419.7	439.8	419.7	399.6	394.5	360.8	315.7	293.3	278.9	250.3	228.8
140°	402.9	421.8	402.9	384.1	379.4	350.3	311.3	291.8	279.2	253.9	234.9
142.5°	389.0	405.2	389.0	372.7	368.7	343.1	308.9	291.8	280.2	256.9	239.4
145°	368.1	380.4	368.1	355.8	352.7	331.8	303.9	289.9	280.3	260.8	246.3
147.5°	352.1	362.2	352.1	341.9	339.4	322.9	300.9	289.9	282.2	266.7	255.0
150°	342.0	350.3	342.0	333.8	331.7	317.7	299.2	289.9	283.1	269.6	259.5
152.5°	333.3	339.5	333.3	327.1	325.6	313.7	297.9	289.9	283.8	271.7	262.5
155°	323.5	327.6	323.5	319.4	318.3	308.9	296.2	289.9	285.2	276.0	269.0
157.5°	315.6	318.5	315.6	312.8	312.0	304.6	294.8	289.9	286.7	280.3	275.5
160°	311.0	312.6	311.0	309.2	308.9	302.5	294.1	289.9	287.3	282.3	278.4
162.5°	307.9	309.4	307.9	306.3	305.9	300.5	293.5	289.9	288.1	284.4	281.6
165°	303.4	305.1	303.4	301.7	301.3	297.5	292.4	289.9	289.1	287.4	286.2
167.5°	300.2	300.9	300.2	299.6	299.4	296.9	293.6	291.8	291.2	289.7	288.7
170°	299.4	299.4	299.4	299.4	299.4	296.9	293.6	291.8	291.8	291.7	291.6
172.5°	297.0	296.4	297.0	297.6	297.8	295.8	293.2	291.8	291.8	291.8	291.8
175°	295.7	295.7	295.7	295.7	295.7	294.4	292.7	291.8	292.2	293.1	293.6
177.5°	294.4	293.6	294.4	295.1	295.3	294.3	293.0	292.3	292.6	293.2	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: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1025.2	1019.4	1019.4	1009.8	1006.0	1003.1	998.4	984.0	980.2	976.4	982.1
5°	1033.8	1023.3	1015.6	998.4	984.0	978.3	960.1	925.7	902.7	885.5	876.0
7.5°	1035.7	1022.4	1007.9	981.1	946.7	931.4	876.0	812.9	795.6	780.3	770.8
10°	1033.8	1018.4	998.4	958.2	876.9	850.2	794.7	753.6	743.1	740.2	743.1
12.5°	1027.1	1012.7	985.0	918.0	804.3	786.1	753.6	729.7	727.8	732.5	758.4
15°	1015.6	1002.2	969.7	864.5	764.1	750.7	727.8	719.2	729.7	763.1	840.6
17.5°	1004.1	988.8	948.6	811.9	733.5	723.9	707.7	724.9	784.2	829.1	854.9
20°	988.8	970.6	924.7	773.7	711.5	702.9	695.2	772.7	817.6	833.9	848.2
22.5°	970.6	951.5	892.2	746.9	688.6	681.9	686.6	799.5	817.6	829.1	841.5
25°	946.7	930.5	854.0	725.8	670.4	662.7	680.9	796.6	807.1	810.0	834.9
27.5°	924.7	903.7	813.8	706.7	648.4	645.5	685.7	784.2	791.8	794.7	821.5
30°	898.0	866.4	768.9	686.6	625.4	624.5	686.6	768.9	767.0	774.6	801.4
32.5°	870.2	810.9	718.2	661.8	603.5	602.5	679.9	745.9	744.0	754.5	774.6
35°	844.4	767.9	649.4	633.1	575.7	576.7	663.7	719.2	720.1	729.7	742.1
37.5°	817.6	730.6	573.8	601.5	549.0	549.0	641.7	694.3	692.4	695.2	712.5
40°	786.1	672.3	506.9	560.4	524.1	521.2	614.9	667.5	660.8	659.9	683.8
42.5°	752.6	608.2	457.2	505.9	495.4	491.6	582.4	635.0	622.6	625.4	656.0
45°	716.3	591.0	418.9	427.5	465.8	462.9	547.0	597.7	589.1	596.8	628.3
47.5°	679.9	556.6	406.5	354.8	434.2	433.3	507.8	561.4	556.6	564.2	597.7
50°	630.2	518.4	405.5	304.1	398.8	402.7	461.0	526.0	526.0	532.7	568.1
52.5°	566.2	471.5	368.2	275.4	357.7	369.2	419.9	495.4	497.3	504.0	535.6
55°	507.8	422.7	341.5	253.4	308.9	333.7	379.7	463.8	467.7	474.4	503.1
57.5°	454.3	352.0	335.6	227.6	263.9	287.8	344.3	433.3	435.2	440.9	468.6
60°	396.9	254.3	307.9	199.8	224.7	242.9	311.7	396.9	403.6	407.4	431.3
62.5°	331.8	184.5	279.2	180.7	205.6	209.4	284.9	362.5	371.1	374.0	388.3
65°	236.2	154.9	237.1	164.5	185.5	186.5	256.3	327.0	334.7	339.4	350.1
67.5°	159.7	126.2	180.7	149.2	170.2	171.2	228.5	285.9	296.4	300.2	306.9
70°	110.9	84.1	133.9	132.9	153.0	154.9	198.9	248.6	258.2	261.0	264.9
72.5°	81.3	67.9	110.9	119.5	134.8	136.7	168.3	206.5	216.1	219.0	220.9
75°	62.2	71.7	89.9	104.2	114.7	115.7	137.7	168.3	175.0	176.9	177.9
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	77.5	92.8	94.7	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	62.2
85°	17.2	19.1	15.3	20.1	25.8	24.9	28.7	32.5	33.5	33.5	31.6
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	38.1	53.5	74.0	84.3	73.9	53.1
95°	68.0	43.4	18.9	43.4	68.0	74.1	131.6	208.2	246.5	219.9	166.9
97.5°	75.9	54.3	32.7	54.3	75.9	81.4	177.2	305.0	368.9	352.2	318.6
100°	82.6	62.9	43.3	62.9	82.6	87.5	193.8	335.6	406.6	407.8	410.3
102.5°	89.0	70.8	52.4	70.8	89.0	93.6	201.5	345.3	417.2	438.6	481.3
105°	98.8	83.3	67.8	83.3	98.8	102.7	207.1	346.4	416.0	463.9	559.8
107.5°	112.4	98.0	83.6	98.0	112.4	116.1	208.2	331.0	392.4	459.3	592.9
110°	120.3	107.2	94.2	107.2	120.3	123.5	206.6	317.4	372.7	447.4	596.9



TEST NUMBER: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	129.5	117.0	104.6	117.0	129.5	132.6	206.6	305.4	354.7	431.2	584.1
115°	143.3	131.9	120.4	131.9	143.3	146.2	208.5	291.6	333.2	406.9	554.2
117.5°	156.8	146.4	136.0	146.4	156.8	159.4	212.5	283.1	318.5	385.0	517.9
120°	164.7	154.9	145.1	154.9	164.7	167.1	215.6	280.3	312.6	373.3	494.8
122.5°	173.7	163.9	153.9	163.9	173.7	176.2	220.1	278.7	308.0	362.7	472.2
125°	185.5	176.5	167.5	176.5	185.5	187.8	226.2	277.5	303.1	349.6	442.5
127.5°	196.8	187.7	178.5	187.7	196.8	199.1	232.4	276.8	299.0	338.9	418.6
130°	204.1	194.3	184.4	194.3	204.1	206.5	236.8	277.2	297.4	332.9	404.0
132.5°	210.2	200.4	190.6	200.4	210.2	212.7	240.5	277.5	296.0	327.8	391.4
135°	217.5	208.5	199.7	208.5	217.5	219.7	244.4	277.2	293.6	320.2	373.5
137.5°	226.6	217.7	208.9	217.7	226.6	228.8	250.3	278.9	293.3	315.7	360.8
140°	232.9	224.7	216.6	224.7	232.9	234.9	253.9	279.2	291.8	311.3	350.3
142.5°	237.5	230.1	222.5	230.1	237.5	239.4	256.9	280.2	291.8	308.9	343.1
145°	244.7	238.1	231.6	238.1	244.7	246.3	260.8	280.3	289.9	303.9	331.8
147.5°	253.4	247.1	240.7	247.1	253.4	255.0	266.7	282.2	289.9	300.9	322.9
150°	258.1	252.2	246.5	252.2	258.1	259.5	269.6	283.1	289.9	299.2	317.7
152.5°	261.4	257.0	252.6	257.0	261.4	262.5	271.7	283.8	289.9	297.9	313.7
155°	268.2	265.0	261.7	265.0	268.2	269.0	276.0	285.2	289.9	296.2	308.9
157.5°	274.7	271.6	268.4	271.6	274.7	275.5	280.3	286.7	289.9	294.8	304.6
160°	277.9	275.4	273.0	275.4	277.9	278.4	282.3	287.3	289.9	294.1	302.5
162.5°	281.1	279.3	277.5	279.3	281.1	281.6	284.4	288.1	289.9	293.5	300.5
165°	285.8	284.1	282.5	284.1	285.8	286.2	287.4	289.1	289.9	292.4	297.5
167.5°	288.5	287.7	287.0	287.7	288.5	288.7	289.7	291.2	291.8	293.6	296.9
170°	291.4	290.7	289.9	290.7	291.4	291.6	291.7	291.8	291.8	293.6	296.9
172.5°	291.8	291.6	291.4	291.6	291.8	291.8	291.8	291.8	291.8	293.2	295.8
175°	293.6	293.6	293.6	293.6	293.6	293.6	293.1	292.2	291.8	292.7	294.4
177.5°	293.6	293.6	293.6	293.6	293.6	293.6	293.2	292.6	292.3	293.0	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: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	975.4	972.5	976.4	965.9	976.4	972.5	975.4	982.1	976.4	980.2	984.0
5°	855.9	851.1	835.8	823.4	835.8	851.1	855.9	876.0	885.5	902.7	925.7
7.5°	765.1	761.2	757.4	749.8	757.4	761.2	765.1	770.8	780.3	795.6	812.9
10°	745.0	745.9	751.7	750.7	751.7	745.9	745.0	743.1	740.2	743.1	753.6
12.5°	796.6	805.2	836.8	834.9	836.8	805.2	796.6	758.4	732.5	727.8	729.7
15°	855.9	858.8	865.5	866.4	865.5	858.8	855.9	840.6	763.1	729.7	719.2
17.5°	861.6	862.6	867.4	867.4	867.4	862.6	861.6	854.9	829.1	784.2	724.9
20°	856.8	858.8	868.3	870.2	868.3	858.8	856.8	848.2	833.9	817.6	772.7
22.5°	854.9	858.8	866.4	865.5	866.4	858.8	854.9	841.5	829.1	817.6	799.5
25°	845.4	845.4	846.3	847.3	846.3	845.4	845.4	834.9	810.0	807.1	796.6
27.5°	825.3	827.2	832.9	832.0	832.9	827.2	825.3	821.5	794.7	791.8	784.2
30°	807.1	805.2	800.4	796.6	800.4	805.2	807.1	801.4	774.6	767.0	768.9
32.5°	776.5	771.7	767.0	764.1	767.0	771.7	776.5	774.6	754.5	744.0	745.9
35°	740.2	741.1	740.2	737.3	740.2	741.1	740.2	742.1	729.7	720.1	719.2
37.5°	714.4	716.3	715.3	711.5	715.3	716.3	714.4	712.5	695.2	692.4	694.3
40°	687.6	688.6	687.6	684.7	687.6	688.6	687.6	683.8	659.9	660.8	667.5
42.5°	661.8	660.8	658.0	656.0	658.0	660.8	661.8	656.0	625.4	622.6	635.0
45°	632.1	633.1	627.4	624.5	627.4	633.1	632.1	628.3	596.8	589.1	597.7
47.5°	602.5	602.5	597.7	594.8	597.7	602.5	602.5	597.7	564.2	556.6	561.4
50°	570.9	570.0	563.3	562.3	563.3	570.0	570.9	568.1	532.7	526.0	526.0
52.5°	534.6	534.6	535.6	537.5	535.6	534.6	534.6	535.6	504.0	497.3	495.4
55°	503.1	504.0	510.7	512.6	510.7	504.0	503.1	503.1	474.4	467.7	463.8
57.5°	470.5	470.5	475.3	475.3	475.3	470.5	470.5	468.6	440.9	435.2	433.3
60°	433.3	435.2	439.0	438.0	439.0	435.2	433.3	431.3	407.4	403.6	396.9
62.5°	394.0	396.0	396.9	395.0	396.9	396.0	394.0	388.3	374.0	371.1	362.5
65°	352.9	354.8	355.8	353.9	355.8	354.8	352.9	350.1	339.4	334.7	327.0
67.5°	310.8	309.8	308.9	312.7	308.9	309.8	310.8	306.9	300.2	296.4	285.9
70°	267.7	267.7	266.8	268.7	266.8	267.7	267.7	264.9	261.0	258.2	248.6
72.5°	221.8	220.9	224.7	221.8	224.7	220.9	221.8	220.9	219.0	216.1	206.5
75°	176.9	178.8	176.9	179.8	176.9	178.8	176.9	177.9	176.9	175.0	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	94.7	94.7	93.7	94.7	94.7	95.6	95.6	96.6	94.7	92.8
82.5°	61.2	60.2	60.2	62.2	60.2	60.2	61.2	62.2	60.2	60.2	60.2
85°	33.5	34.4	32.5	32.5	32.5	34.4	33.5	31.6	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	36.0	30.0	24.0	30.0	36.0	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	166.9	219.9	246.5	208.2
97.5°	293.5	284.8	250.5	216.2	250.5	284.8	293.5	318.6	352.2	368.9	305.0
100°	412.1	401.9	361.0	320.0	361.0	401.9	412.1	410.3	407.8	406.6	335.6
102.5°	513.4	504.6	469.6	434.6	469.6	504.6	513.4	481.3	438.6	417.2	345.3
105°	631.7	627.0	608.1	589.3	608.1	627.0	631.7	559.8	463.9	416.0	346.4
107.5°	693.1	694.3	698.8	703.4	698.8	694.3	693.1	592.9	459.3	392.4	331.0
110°	708.9	713.8	733.4	753.0	733.4	713.8	708.9	596.9	447.4	372.7	317.4



TEST NUMBER: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	698.9	706.4	736.6	766.7	736.6	706.4	698.9	584.1	431.2	354.7	305.4
115°	664.7	675.2	717.0	758.7	717.0	675.2	664.7	554.2	406.9	333.2	291.6
117.5°	617.6	629.2	675.6	721.9	675.6	629.2	617.6	517.9	385.0	318.5	283.1
120°	586.0	597.2	642.2	687.2	642.2	597.2	586.0	494.8	373.3	312.6	280.3
122.5°	554.2	565.3	609.8	654.1	609.8	565.3	554.2	472.2	362.7	308.0	278.7
125°	512.2	522.5	563.3	604.2	563.3	522.5	512.2	442.5	349.6	303.1	277.5
127.5°	478.5	487.1	521.6	556.1	521.6	487.1	478.5	418.6	338.9	299.0	276.8
130°	457.3	465.2	497.1	529.0	497.1	465.2	457.3	404.0	332.9	297.4	277.2
132.5°	439.1	446.3	474.7	503.3	474.7	446.3	439.1	391.4	327.8	296.0	277.5
135°	413.5	419.6	444.2	468.8	444.2	419.6	413.5	373.5	320.2	293.6	277.2
137.5°	394.5	399.6	419.7	439.8	419.7	399.6	394.5	360.8	315.7	293.3	278.9
140°	379.4	384.1	402.9	421.8	402.9	384.1	379.4	350.3	311.3	291.8	279.2
142.5°	368.7	372.7	389.0	405.2	389.0	372.7	368.7	343.1	308.9	291.8	280.2
145°	352.7	355.8	368.1	380.4	368.1	355.8	352.7	331.8	303.9	289.9	280.3
147.5°	339.4	341.9	352.1	362.2	352.1	341.9	339.4	322.9	300.9	289.9	282.2
150°	331.7	333.8	342.0	350.3	342.0	333.8	331.7	317.7	299.2	289.9	283.1
152.5°	325.6	327.1	333.3	339.5	333.3	327.1	325.6	313.7	297.9	289.9	283.8
155°	318.3	319.4	323.5	327.6	323.5	319.4	318.3	308.9	296.2	289.9	285.2
157.5°	312.0	312.8	315.6	318.5	315.6	312.8	312.0	304.6	294.8	289.9	286.7
160°	308.9	309.2	311.0	312.6	311.0	309.2	308.9	302.5	294.1	289.9	287.3
162.5°	305.9	306.3	307.9	309.4	307.9	306.3	305.9	300.5	293.5	289.9	288.1
165°	301.3	301.7	303.4	305.1	303.4	301.7	301.3	297.5	292.4	289.9	289.1
167.5°	299.4	299.6	300.2	300.9	300.2	299.6	299.4	296.9	293.6	291.8	291.2
170°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	296.9	293.6	291.8	291.8
172.5°	297.8	297.6	297.0	296.4	297.0	297.6	297.8	295.8	293.2	291.8	291.8
175°	295.7	295.7	295.7	295.7	295.7	295.7	295.7	294.4	292.7	291.8	292.2
177.5°	295.3	295.1	294.4	293.6	294.4	295.1	295.3	294.3	293.0	292.3	292.6
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: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	998.4	1003.1	1006.0	1009.8	1019.4
5°	960.1	978.3	984.0	998.4	1015.6
7.5°	876.0	931.4	946.7	981.1	1007.9
10°	794.7	850.2	876.9	958.2	998.4
12.5°	753.6	786.1	804.3	918.0	985.0
15°	727.8	750.7	764.1	864.5	969.7
17.5°	707.7	723.9	733.5	811.9	948.6
20°	695.2	702.9	711.5	773.7	924.7
22.5°	686.6	681.9	688.6	746.9	892.2
25°	680.9	662.7	670.4	725.8	854.0
27.5°	685.7	645.5	648.4	706.7	813.8
30°	686.6	624.5	625.4	686.6	768.9
32.5°	679.9	602.5	603.5	661.8	718.2
35°	663.7	576.7	575.7	633.1	649.4
37.5°	641.7	549.0	549.0	601.5	573.8
40°	614.9	521.2	524.1	560.4	506.9
42.5°	582.4	491.6	495.4	505.9	457.2
45°	547.0	462.9	465.8	427.5	418.9
47.5°	507.8	433.3	434.2	354.8	406.5
50°	461.0	402.7	398.8	304.1	405.5
52.5°	419.9	369.2	357.7	275.4	368.2
55°	379.7	333.7	308.9	253.4	341.5
57.5°	344.3	287.8	263.9	227.6	335.6
60°	311.7	242.9	224.7	199.8	307.9
62.5°	284.9	209.4	205.6	180.7	279.2
65°	256.3	186.5	185.5	164.5	237.1
67.5°	228.5	171.2	170.2	149.2	180.7
70°	198.9	154.9	153.0	132.9	133.9
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°	77.5	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°	53.5	38.1	34.7	21.2	7.8
95°	131.6	74.1	68.0	43.4	18.9
97.5°	177.2	81.4	75.9	54.3	32.7
100°	193.8	87.5	82.6	62.9	43.3
102.5°	201.5	93.6	89.0	70.8	52.4
105°	207.1	102.7	98.8	83.3	67.8
107.5°	208.2	116.1	112.4	98.0	83.6
110°	206.6	123.5	120.3	107.2	94.2



TEST NUMBER: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	206.6	132.6	129.5	117.0	104.6
115°	208.5	146.2	143.3	131.9	120.4
117.5°	212.5	159.4	156.8	146.4	136.0
120°	215.6	167.1	164.7	154.9	145.1
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°	232.4	199.1	196.8	187.7	178.5
130°	236.8	206.5	204.1	194.3	184.4
132.5°	240.5	212.7	210.2	200.4	190.6
135°	244.4	219.7	217.5	208.5	199.7
137.5°	250.3	228.8	226.6	217.7	208.9
140°	253.9	234.9	232.9	224.7	216.6
142.5°	256.9	239.4	237.5	230.1	222.5
145°	260.8	246.3	244.7	238.1	231.6
147.5°	266.7	255.0	253.4	247.1	240.7
150°	269.6	259.5	258.1	252.2	246.5
152.5°	271.7	262.5	261.4	257.0	252.6
155°	276.0	269.0	268.2	265.0	261.7
157.5°	280.3	275.5	274.7	271.6	268.4
160°	282.3	278.4	277.9	275.4	273.0
162.5°	284.4	281.6	281.1	279.3	277.5
165°	287.4	286.2	285.8	284.1	282.5
167.5°	289.7	288.7	288.5	287.7	287.0
170°	291.7	291.6	291.4	290.7	289.9
172.5°	291.8	291.8	291.8	291.6	291.4
175°	293.1	293.6	293.6	293.6	293.6
177.5°	293.2	293.6	293.6	293.6	293.6
180°	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934336

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-6500K

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	14.75	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	16.94	18.13	18.87	19.06	19.79	21.00
	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	19.85	21.07
4H	2H	14.31	15.10	15.23	16.02	17.21	16.49	17.29	17.41	18.21	19.40
	3H	15.34	16.00	16.27	16.96	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	16.08	16.56	17.03	17.53	18.77	18.65	19.14	19.61	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	19.33	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	16.76	17.39	17.75	19.01	19.08	19.44	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