

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: P934664

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934664
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

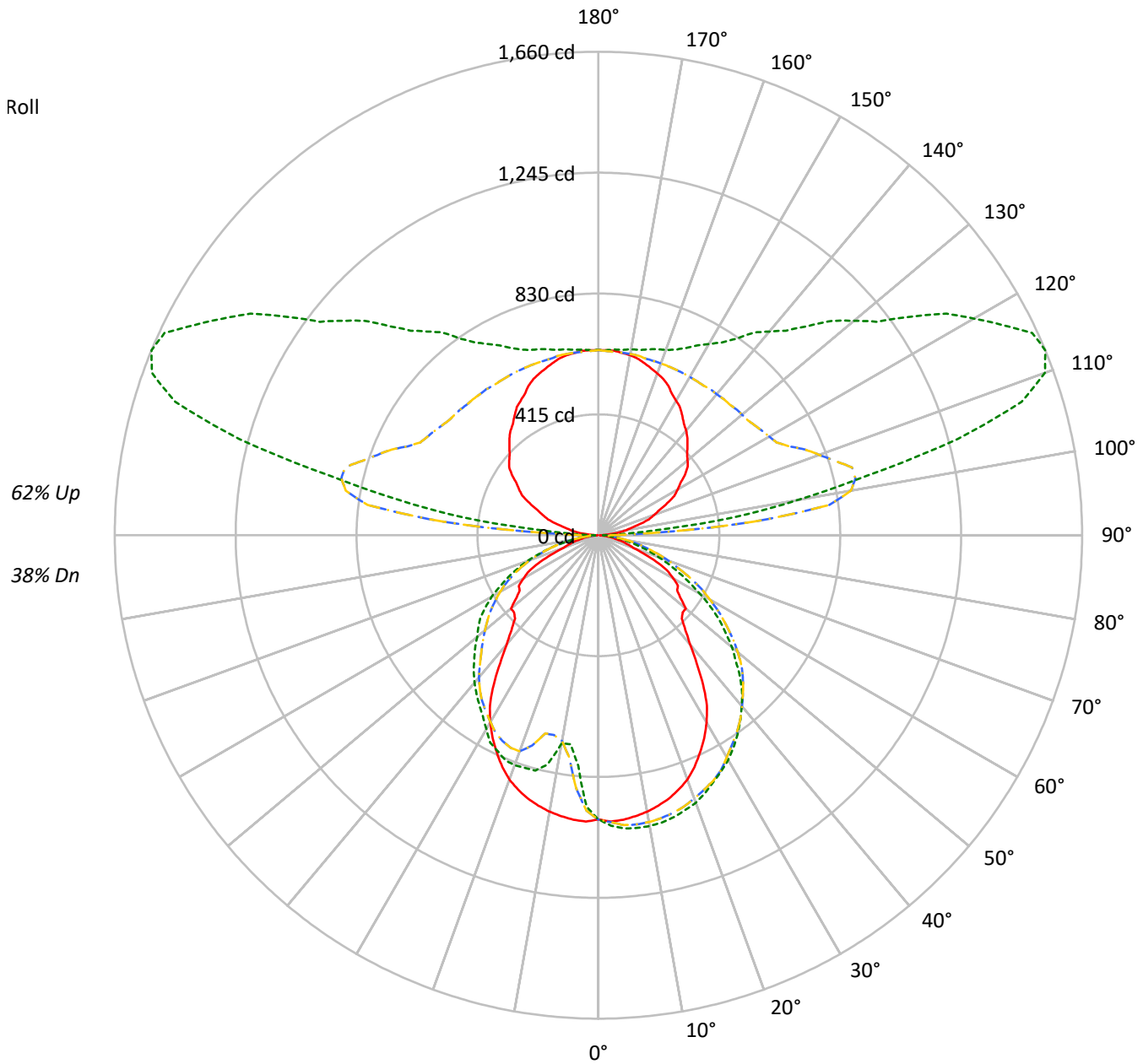
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6654.2 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 51.6
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: P934664
CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38	38	38	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32	32	32	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27	27	27	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23	23	23	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20	20	20	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17	17	17	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15	15	15	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13	13	13	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12	12	12	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11	11	11	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10	10	10	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6036	6036	6036	6036
5°	6079	6093	6079	4791
10°	6036	6003	6036	4291
15°	5968	5873	5968	4904
20°	5841	5718	5841	4914
25°	5584	5494	5584	4809
30°	5251	5307	5251	4581
35°	4680	5071	4680	4330
40°	3897	4794	3897	4140
45°	3479	4468	3479	3921
50°	3693	4080	3693	3702
55°	3471	3662	3471	3576
60°	3574	3111	3574	3275
65°	3236	2572	3236	2875
70°	2235	2049	2235	2409
75°	1953	1514	1953	1813
80°	1562	1002	1562	1091
85°	882	530	882	451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5337 cd/sqm



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	1.3
10°-20°	250.1	3.8
20°-30°	386.6	5.8
30°-40°	461.5	6.9
40°-50°	464.2	7.0
50°-60°	403.9	6.1
60°-70°	286.4	4.3
70°-80°	151.5	2.3
80°-90°	40.2	0.6
90°-100°	309.9	4.7
100°-110°	814.8	12.2
110°-120°	844.9	12.7
120°-130°	677.7	10.2
130°-140°	531.7	8.0
140°-150°	408.1	6.1
150°-160°	293.9	4.4
160°-170°	179.8	2.7
170°-180°	60.8	0.9
0°-30°	724.8	10.9
0°-40°	1186.3	17.8
0°-60°	2054.4	30.9
0°-90°	2532.5	38.1
90°-120°	1969.6	29.6
90°-150°	3587.2	53.9
90°-180°	4122.0	61.9
0°-180°	6654.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	976	976	976	976	976	
5°	980	1011	980	795	980	93
15°	936	1002	936	836	936	263
25°	824	934	824	818	824	379
35°	627	834	627	712	627	388
45°	404	687	404	603	404	324
55°	330	507	330	495	330	303
65°	229	306	229	342	229	219
75°	87	145	87	174	87	91
85°	15	37	15	31	15	20
90°	4	16	4	16	4	4
95°	41	187	41	187	41	45
105°	147	1276	147	1276	147	156
115°	261	1643	261	1643	261	257
125°	363	1308	363	1308	363	322
135°	432	1015	432	1015	432	334
145°	501	824	501	824	501	314
155°	567	709	567	709	567	260
165°	612	661	612	661	612	173
175°	636	640	636	640	636	60
180°	636	636	636	636	636	



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8
2.5°	984.1	984.1	989.6	991.5	991.5	988.7	986.0	988.7	997.1	999.8	998.9
5°	980.4	987.8	998.0	999.8	1001.7	1000.7	998.9	1000.7	1009.9	1011.9	1012.8
7.5°	973.0	986.9	999.8	1002.6	1005.3	1002.6	1001.7	1003.5	1012.8	1014.6	1014.6
10°	963.8	983.2	998.0	999.8	1002.6	999.8	999.8	1003.5	1012.8	1014.6	1015.5
12.5°	950.9	977.6	991.5	993.3	997.1	996.2	995.1	998.9	1008.1	1009.9	1009.9
15°	936.1	967.5	980.4	982.3	988.7	986.9	986.9	990.6	1000.7	1003.5	1002.6
17.5°	915.8	954.6	969.4	972.1	976.7	975.8	976.7	980.4	989.6	991.5	992.4
20°	892.7	937.1	954.6	957.3	961.9	961.9	961.9	966.6	975.8	979.5	979.5
22.5°	861.3	918.5	937.1	938.9	944.4	944.4	946.2	952.8	961.0	961.9	961.9
25°	824.4	898.2	913.9	919.5	925.0	927.8	930.5	934.3	937.1	936.1	937.1
27.5°	785.6	872.4	892.7	896.4	903.8	906.6	910.3	911.2	912.1	914.9	913.0
30°	742.2	836.4	866.9	870.5	882.5	884.4	880.7	882.5	887.1	889.1	890.9
32.5°	693.3	782.9	840.1	848.4	859.5	853.9	853.0	855.8	863.2	863.2	865.0
35°	626.9	741.3	815.2	822.5	830.9	824.4	828.1	829.0	833.6	836.4	835.5
37.5°	553.9	705.3	789.3	794.8	801.3	793.0	798.6	801.3	805.0	803.2	803.2
40°	489.3	649.0	758.8	762.5	768.1	761.6	767.2	769.0	770.9	769.0	768.1
42.5°	441.3	587.1	726.5	731.1	727.5	732.0	734.0	737.6	734.9	731.1	731.1
45°	404.3	570.5	691.5	697.0	691.5	698.8	701.6	701.6	693.3	691.5	690.6
47.5°	392.3	537.3	656.4	656.4	653.6	662.9	667.4	661.0	652.7	649.9	649.9
50°	391.4	500.3	608.3	604.7	617.6	628.7	624.0	617.6	611.2	601.0	601.0
52.5°	355.4	455.1	546.5	560.3	580.7	587.1	579.8	573.3	562.2	557.6	553.9
55°	329.5	408.0	490.2	517.9	539.1	547.4	533.6	527.1	510.5	507.8	505.9
57.5°	324.0	339.7	438.5	473.6	499.4	498.5	490.2	478.2	464.4	461.6	460.7
60°	297.2	245.6	383.1	424.7	451.4	448.7	441.3	430.2	417.3	415.4	413.6
62.5°	269.5	178.2	320.4	367.4	405.3	404.3	397.9	381.3	372.0	367.4	363.8
65°	229.0	149.6	228.0	305.6	360.0	361.8	348.1	336.1	325.9	320.4	319.4
67.5°	174.5	121.9	154.2	254.8	316.7	314.8	297.2	291.7	278.8	276.0	270.5
70°	129.2	81.2	107.1	206.8	274.2	269.5	255.8	249.2	237.2	230.8	227.1
72.5°	107.1	65.5	78.5	160.6	230.8	225.3	213.3	205.8	195.7	190.1	186.5
75°	86.8	69.2	60.0	119.1	187.4	183.7	172.6	165.3	156.9	149.6	150.5
77.5°	63.7	64.6	48.0	87.7	148.7	143.1	136.6	127.4	123.7	116.4	116.4
80°	48.0	50.7	36.0	60.0	107.1	107.1	101.6	95.1	88.6	85.0	85.0
82.5°	32.3	32.3	26.8	37.8	73.0	70.2	66.4	64.6	60.9	59.1	59.1
85°	14.8	18.4	16.6	23.0	39.7	41.6	41.6	39.7	38.8	36.9	37.8
87.5°	4.6	8.4	10.2	12.9	20.3	21.2	22.1	22.1	22.1	23.0	23.0
90°	4.2	7.6	11.1	11.9	18.7	27.8	32.4	28.8	21.7	16.2	16.2
92.5°	17.1	46.1	75.1	82.3	115.7	160.3	182.6	160.0	114.9	81.0	77.8
95°	40.9	94.1	147.1	160.4	284.9	450.9	533.8	476.4	361.4	275.2	265.5
97.5°	70.8	117.6	164.5	176.2	383.8	660.5	798.9	762.5	689.9	635.4	616.8
100°	93.9	136.4	178.9	189.5	419.8	726.8	880.3	883.0	888.3	892.3	870.2
102.5°	113.5	153.2	192.8	202.7	436.3	747.6	903.4	949.6	1042.2	1111.6	1092.6
105°	146.8	180.4	214.0	222.4	448.5	750.0	900.8	1004.5	1212.0	1367.6	1357.5
107.5°	181.0	212.3	243.6	251.4	450.8	716.6	849.6	994.3	1283.8	1500.8	1503.3
110°	204.0	232.3	260.4	267.5	447.3	687.1	806.9	968.7	1292.3	1534.9	1545.6



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	226.6	253.5	280.4	287.1	447.5	661.2	768.1	933.7	1264.8	1513.1	1529.4
115°	260.7	285.6	310.4	316.6	451.6	631.6	721.6	881.1	1200.1	1439.3	1461.9
117.5°	294.4	317.0	339.5	345.2	460.0	613.0	689.6	833.5	1121.4	1337.4	1362.4
120°	314.0	335.3	356.5	361.8	466.8	606.8	676.8	808.3	1071.3	1268.6	1293.0
122.5°	333.3	354.7	376.2	381.5	476.7	603.6	667.0	785.4	1022.2	1199.9	1223.9
125°	362.7	382.2	401.8	406.6	489.9	600.8	656.3	756.9	958.2	1109.0	1131.2
127.5°	386.6	406.4	426.0	430.9	503.1	599.3	647.3	733.7	906.5	1036.1	1054.8
130°	399.4	420.7	441.9	447.2	512.8	600.3	643.9	720.8	874.7	990.0	1007.3
132.5°	412.6	433.9	455.1	460.4	520.6	600.8	640.9	709.7	847.5	950.7	966.1
135°	432.2	451.6	471.0	475.8	529.1	600.3	635.8	693.4	808.8	895.2	908.5
137.5°	452.3	471.4	490.6	495.4	541.9	603.9	635.0	683.7	781.1	854.3	865.2
140°	468.9	486.6	504.3	508.7	549.8	604.6	631.9	674.0	758.3	821.4	831.6
142.5°	481.8	498.1	514.5	518.5	556.3	606.7	631.9	668.9	742.9	798.4	807.2
145°	501.4	515.7	529.8	533.4	564.8	606.8	627.7	658.0	718.5	763.8	770.4
147.5°	521.0	534.8	548.7	552.2	577.3	610.9	627.7	651.5	699.1	734.8	740.3
150°	533.8	546.3	558.9	562.0	583.9	613.1	627.7	647.8	688.0	718.2	722.7
152.5°	547.0	556.6	566.0	568.4	588.2	614.5	627.7	644.9	679.2	705.0	708.4
155°	566.7	573.7	580.7	582.5	597.5	617.6	627.7	641.4	668.7	689.2	691.4
157.5°	581.2	588.1	594.8	596.6	607.0	620.8	627.7	638.3	659.5	675.5	677.1
160°	591.0	596.3	601.6	602.9	611.2	622.2	627.7	636.8	655.0	668.6	669.6
162.5°	600.8	604.9	608.8	609.8	615.8	623.8	627.7	635.4	650.7	662.3	663.1
165°	611.5	615.1	618.7	619.6	622.3	625.9	627.7	633.2	644.2	652.5	653.4
167.5°	621.3	623.0	624.7	625.1	627.4	630.5	631.9	635.5	642.8	648.2	648.5
170°	627.7	629.4	631.1	631.6	631.6	631.8	631.9	635.5	642.8	648.2	648.2
172.5°	631.1	631.5	631.8	631.9	631.9	631.9	631.9	634.8	640.5	644.8	644.4
175°	635.8	635.8	635.8	635.8	634.5	632.8	631.9	633.8	637.3	640.1	640.1
177.5°	635.8	635.8	635.8	635.8	634.8	633.5	632.8	634.3	637.2	639.3	638.9
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8
2.5°	1000.7	998.0	1000.7	998.9	999.8	997.1	988.7	986.0	988.7	991.5	991.5
5°	1012.8	1010.8	1012.8	1012.8	1011.9	1009.9	1000.7	998.9	1000.7	1001.7	999.8
7.5°	1016.4	1013.7	1016.4	1014.6	1014.6	1012.8	1003.5	1001.7	1002.6	1005.3	1002.6
10°	1016.4	1013.7	1016.4	1015.5	1014.6	1012.8	1003.5	999.8	999.8	1002.6	999.8
12.5°	1011.9	1009.9	1011.9	1009.9	1009.9	1008.1	998.9	995.1	996.2	997.1	993.3
15°	1004.4	1001.7	1004.4	1002.6	1003.5	1000.7	990.6	986.9	986.9	988.7	982.3
17.5°	993.3	989.6	993.3	992.4	991.5	989.6	980.4	976.7	975.8	976.7	972.1
20°	980.4	977.6	980.4	979.5	979.5	975.8	966.6	961.9	961.9	961.9	957.3
22.5°	960.1	957.3	960.1	961.9	961.9	961.0	952.8	946.2	944.4	944.4	938.9
25°	937.1	934.3	937.1	937.1	936.1	937.1	934.3	930.5	927.8	925.0	919.5
27.5°	914.9	913.0	914.9	913.0	914.9	912.1	911.2	910.3	906.6	903.8	896.4
30°	892.7	890.9	892.7	890.9	889.1	887.1	882.5	880.7	884.4	882.5	870.5
32.5°	865.0	863.2	865.0	865.0	863.2	863.2	855.8	853.0	853.9	859.5	848.4
35°	836.4	833.6	836.4	835.5	836.4	833.6	829.0	828.1	824.4	830.9	822.5
37.5°	803.2	800.4	803.2	803.2	803.2	805.0	801.3	798.6	793.0	801.3	794.8
40°	769.0	765.4	769.0	768.1	769.0	770.9	769.0	767.2	761.6	768.1	762.5
42.5°	730.2	729.3	730.2	731.1	731.1	734.9	737.6	734.0	732.0	727.5	731.1
45°	688.7	686.8	688.7	690.6	691.5	693.3	701.6	701.6	698.8	691.5	697.0
47.5°	644.4	639.7	644.4	649.9	649.9	652.7	661.0	667.4	662.9	653.6	656.4
50°	597.3	598.2	597.3	601.0	601.0	611.2	617.6	624.0	628.7	617.6	604.7
52.5°	551.2	550.2	551.2	553.9	557.6	562.2	573.3	579.8	587.1	580.7	560.3
55°	505.0	506.8	505.0	505.9	507.8	510.5	527.1	533.6	547.4	539.1	517.9
57.5°	458.8	456.1	458.8	460.7	461.6	464.4	478.2	490.2	498.5	499.4	473.6
60°	405.3	401.6	405.3	413.6	415.4	417.3	430.2	441.3	448.7	451.4	424.7
62.5°	358.2	351.8	358.2	363.8	367.4	372.0	381.3	397.9	404.3	405.3	367.4
65°	308.3	305.6	308.3	319.4	320.4	325.9	336.1	348.1	361.8	360.0	305.6
67.5°	263.1	263.1	263.1	270.5	276.0	278.8	291.7	297.2	314.8	316.7	254.8
70°	221.5	220.6	221.5	227.1	230.8	237.2	249.2	255.8	269.5	274.2	206.8
72.5°	181.9	181.0	181.9	186.5	190.1	195.7	205.8	213.3	225.3	230.8	160.6
75°	146.8	144.9	146.8	150.5	149.6	156.9	165.3	172.6	183.7	187.4	119.1
77.5°	112.6	112.6	112.6	116.4	116.4	123.7	127.4	136.6	143.1	148.7	87.7
80°	84.0	83.1	84.0	85.0	85.0	88.6	95.1	101.6	107.1	107.1	60.0
82.5°	59.1	57.3	59.1	59.1	59.1	60.9	64.6	66.4	70.2	73.0	37.8
85°	36.9	36.9	36.9	37.8	36.9	38.8	39.7	41.6	41.6	39.7	23.0
87.5°	24.0	23.0	24.0	23.0	23.0	22.1	22.1	22.1	21.2	20.3	12.9
90°	16.2	16.2	16.2	16.2	16.2	21.7	28.8	32.4	27.8	18.7	11.9
92.5°	64.9	52.0	64.9	77.8	81.0	114.9	160.0	182.6	160.3	115.7	82.3
95°	226.4	187.3	226.4	265.5	275.2	361.4	476.4	533.8	450.9	284.9	160.4
97.5°	542.4	468.1	542.4	616.8	635.4	689.9	762.5	798.9	660.5	383.8	176.2
100°	781.5	693.0	781.5	870.2	892.3	888.3	883.0	880.3	726.8	419.8	189.5
102.5°	1016.8	940.9	1016.8	1092.6	1111.6	1042.2	949.6	903.4	747.6	436.3	202.7
105°	1316.6	1275.9	1316.6	1357.5	1367.6	1212.0	1004.5	900.8	750.0	448.5	222.4
107.5°	1513.1	1522.9	1513.1	1503.3	1500.8	1283.8	994.3	849.6	716.6	450.8	251.4
110°	1588.0	1630.5	1588.0	1545.6	1534.9	1292.3	968.7	806.9	687.1	447.3	267.5



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1594.7	1659.9	1594.7	1529.4	1513.1	1264.8	933.7	768.1	661.2	447.5	287.1
115°	1552.4	1642.9	1552.4	1461.9	1439.3	1200.1	881.1	721.6	631.6	451.6	316.6
117.5°	1462.7	1563.0	1462.7	1362.4	1337.4	1121.4	833.5	689.6	613.0	460.0	345.2
120°	1390.5	1488.0	1390.5	1293.0	1268.6	1071.3	808.3	676.8	606.8	466.8	361.8
122.5°	1320.1	1416.3	1320.1	1223.9	1199.9	1022.2	785.4	667.0	603.6	476.7	381.5
125°	1219.8	1308.4	1219.8	1131.2	1109.0	958.2	756.9	656.3	600.8	489.9	406.6
127.5°	1129.5	1204.2	1129.5	1054.8	1036.1	906.5	733.7	647.3	599.3	503.1	430.9
130°	1076.3	1145.3	1076.3	1007.3	990.0	874.7	720.8	643.9	600.3	512.8	447.2
132.5°	1028.0	1089.9	1028.0	966.1	950.7	847.5	709.7	640.9	600.8	520.6	460.4
135°	961.8	1015.2	961.8	908.5	895.2	808.8	693.4	635.8	600.3	529.1	475.8
137.5°	908.8	952.5	908.8	865.2	854.3	781.1	683.7	635.0	603.9	541.9	495.4
140°	872.5	913.2	872.5	831.6	821.4	758.3	674.0	631.9	604.6	549.8	508.7
142.5°	842.3	877.3	842.3	807.2	798.4	742.9	668.9	631.9	606.7	556.3	518.5
145°	797.0	823.5	797.0	770.4	763.8	718.5	658.0	627.7	606.8	564.8	533.4
147.5°	762.2	784.3	762.2	740.3	734.8	699.1	651.5	627.7	610.9	577.3	552.2
150°	740.5	758.3	740.5	722.7	718.2	688.0	647.8	627.7	613.1	583.9	562.0
152.5°	721.8	735.3	721.8	708.4	705.0	679.2	644.9	627.7	614.5	588.2	568.4
155°	700.3	709.2	700.3	691.4	689.2	668.7	641.4	627.7	617.6	597.5	582.5
157.5°	683.3	689.6	683.3	677.1	675.5	659.5	638.3	627.7	620.8	607.0	596.6
160°	673.1	676.8	673.1	669.6	668.6	655.0	636.8	627.7	622.2	611.2	602.9
162.5°	666.5	669.9	666.5	663.1	662.3	650.7	635.4	627.7	623.8	615.8	609.8
165°	657.0	660.6	657.0	653.4	652.5	644.2	633.2	627.7	625.9	622.3	619.6
167.5°	650.1	651.6	650.1	648.5	648.2	642.8	635.5	631.9	630.5	627.4	625.1
170°	648.2	648.2	648.2	648.2	648.2	642.8	635.5	631.9	631.8	631.6	631.6
172.5°	643.1	641.7	643.1	644.4	644.8	640.5	634.8	631.9	631.9	631.9	631.9
175°	640.1	640.1	640.1	640.1	640.1	637.3	633.8	631.9	632.8	634.5	635.8
177.5°	637.3	635.8	637.3	638.9	639.3	637.2	634.3	632.8	633.5	634.8	635.8
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8
2.5°	989.6	984.1	984.1	974.9	971.2	968.4	963.8	950.0	946.2	942.6	948.1
5°	998.0	987.8	980.4	963.8	950.0	944.4	926.9	893.7	871.4	854.8	845.7
7.5°	999.8	986.9	973.0	947.2	913.9	899.2	845.7	784.7	768.1	753.3	744.1
10°	998.0	983.2	963.8	925.0	846.6	820.7	767.2	727.5	717.3	714.5	717.3
12.5°	991.5	977.6	950.9	886.2	776.4	758.8	727.5	704.4	702.5	707.2	732.0
15°	980.4	967.5	936.1	834.6	737.6	724.7	702.5	694.2	704.4	736.7	811.5
17.5°	969.4	954.6	915.8	783.8	708.1	698.8	683.1	699.7	757.0	800.4	825.3
20°	954.6	937.1	892.7	746.8	686.8	678.5	671.1	745.9	789.3	805.0	818.9
22.5°	937.1	918.5	861.3	721.0	664.7	658.3	662.9	771.8	789.3	800.4	812.4
25°	913.9	898.2	824.4	700.7	647.2	639.7	657.3	769.0	779.1	782.0	805.9
27.5°	892.7	872.4	785.6	682.2	626.0	623.1	661.9	757.0	764.4	767.2	793.0
30°	866.9	836.4	742.2	662.9	603.8	602.8	662.9	742.2	740.4	747.7	773.6
32.5°	840.1	782.9	693.3	638.8	582.6	581.6	656.4	720.1	718.3	728.4	747.7
35°	815.2	741.3	626.9	611.2	555.8	556.7	640.6	694.2	695.2	704.4	716.4
37.5°	789.3	705.3	553.9	580.7	529.9	529.9	619.4	670.2	668.4	671.1	687.8
40°	758.8	649.0	489.3	541.0	505.9	503.2	593.6	644.4	637.9	637.0	660.1
42.5°	726.5	587.1	441.3	488.4	478.2	474.5	562.2	613.0	601.0	603.8	633.3
45°	691.5	570.5	404.3	412.7	449.6	446.8	528.0	577.0	568.7	576.0	606.5
47.5°	656.4	537.3	392.3	342.5	419.1	418.2	490.2	541.9	537.3	544.7	577.0
50°	608.3	500.3	391.4	293.6	385.0	388.6	445.0	507.8	507.8	514.2	548.4
52.5°	546.5	455.1	355.4	265.9	345.2	356.3	405.3	478.2	480.0	486.6	516.9
55°	490.2	408.0	329.5	244.7	298.2	322.2	366.5	447.7	451.4	457.9	485.6
57.5°	438.5	339.7	324.0	219.7	254.8	277.9	332.4	418.2	420.0	425.6	452.3
60°	383.1	245.6	297.2	192.9	216.9	234.5	300.9	383.1	389.6	393.2	416.4
62.5°	320.4	178.2	269.5	174.5	198.5	202.2	275.1	349.9	358.2	360.9	374.8
65°	228.0	149.6	229.0	158.8	179.1	180.1	247.4	315.7	323.1	327.7	337.9
67.5°	154.2	121.9	174.5	144.0	164.4	165.3	220.6	276.0	286.2	289.9	296.3
70°	107.1	81.2	129.2	128.3	147.7	149.6	192.0	240.1	249.2	252.0	255.8
72.5°	78.5	65.5	107.1	115.4	130.1	132.1	162.5	199.4	208.7	211.4	213.3
75°	60.0	69.2	86.8	100.7	110.8	111.7	133.0	162.5	168.9	170.8	171.7
77.5°	48.0	64.6	63.7	81.2	90.5	88.6	104.3	125.5	131.0	131.0	131.0
80°	36.0	50.7	48.0	58.2	66.4	64.6	74.8	89.6	91.4	93.2	92.3
82.5°	26.8	32.3	32.3	36.9	44.3	42.5	49.8	58.2	58.2	58.2	60.0
85°	16.6	18.4	14.8	19.4	25.0	24.0	27.7	31.4	32.3	32.3	30.5
87.5°	10.2	8.4	4.6	7.3	11.1	11.1	12.9	13.9	12.9	12.9	12.9
90°	11.1	7.6	4.2	7.6	11.1	11.9	18.7	27.8	32.4	28.8	21.7
92.5°	75.1	46.1	17.1	46.1	75.1	82.3	115.7	160.3	182.6	160.0	114.9
95°	147.1	94.1	40.9	94.1	147.1	160.4	284.9	450.9	533.8	476.4	361.4
97.5°	164.5	117.6	70.8	117.6	164.5	176.2	383.8	660.5	798.9	762.5	689.9
100°	178.9	136.4	93.9	136.4	178.9	189.5	419.8	726.8	880.3	883.0	888.3
102.5°	192.8	153.2	113.5	153.2	192.8	202.7	436.3	747.6	903.4	949.6	1042.2
105°	214.0	180.4	146.8	180.4	214.0	222.4	448.5	750.0	900.8	1004.5	1212.0
107.5°	243.6	212.3	181.0	212.3	243.6	251.4	450.8	716.6	849.6	994.3	1283.8
110°	260.4	232.3	204.0	232.3	260.4	267.5	447.3	687.1	806.9	968.7	1292.3



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	280.4	253.5	226.6	253.5	280.4	287.1	447.5	661.2	768.1	933.7	1264.8
115°	310.4	285.6	260.7	285.6	310.4	316.6	451.6	631.6	721.6	881.1	1200.1
117.5°	339.5	317.0	294.4	317.0	339.5	345.2	460.0	613.0	689.6	833.5	1121.4
120°	356.5	335.3	314.0	335.3	356.5	361.8	466.8	606.8	676.8	808.3	1071.3
122.5°	376.2	354.7	333.3	354.7	376.2	381.5	476.7	603.6	667.0	785.4	1022.2
125°	401.8	382.2	362.7	382.2	401.8	406.6	489.9	600.8	656.3	756.9	958.2
127.5°	426.0	406.4	386.6	406.4	426.0	430.9	503.1	599.3	647.3	733.7	906.5
130°	441.9	420.7	399.4	420.7	441.9	447.2	512.8	600.3	643.9	720.8	874.7
132.5°	455.1	433.9	412.6	433.9	455.1	460.4	520.6	600.8	640.9	709.7	847.5
135°	471.0	451.6	432.2	451.6	471.0	475.8	529.1	600.3	635.8	693.4	808.8
137.5°	490.6	471.4	452.3	471.4	490.6	495.4	541.9	603.9	635.0	683.7	781.1
140°	504.3	486.6	468.9	486.6	504.3	508.7	549.8	604.6	631.9	674.0	758.3
142.5°	514.5	498.1	481.8	498.1	514.5	518.5	556.3	606.7	631.9	668.9	742.9
145°	529.8	515.7	501.4	515.7	529.8	533.4	564.8	606.8	627.7	658.0	718.5
147.5°	548.7	534.8	521.0	534.8	548.7	552.2	577.3	610.9	627.7	651.5	699.1
150°	558.9	546.3	533.8	546.3	558.9	562.0	583.9	613.1	627.7	647.8	688.0
152.5°	566.0	556.6	547.0	556.6	566.0	568.4	588.2	614.5	627.7	644.9	679.2
155°	580.7	573.7	566.7	573.7	580.7	582.5	597.5	617.6	627.7	641.4	668.7
157.5°	594.8	588.1	581.2	588.1	594.8	596.6	607.0	620.8	627.7	638.3	659.5
160°	601.6	596.3	591.0	596.3	601.6	602.9	611.2	622.2	627.7	636.8	655.0
162.5°	608.8	604.9	600.8	604.9	608.8	609.8	615.8	623.8	627.7	635.4	650.7
165°	618.7	615.1	611.5	615.1	618.7	619.6	622.3	625.9	627.7	633.2	644.2
167.5°	624.7	623.0	621.3	623.0	624.7	625.1	627.4	630.5	631.9	635.5	642.8
170°	631.1	629.4	627.7	629.4	631.1	631.6	631.6	631.8	631.9	635.5	642.8
172.5°	631.8	631.5	631.1	631.5	631.8	631.9	631.9	631.9	631.9	634.8	640.5
175°	635.8	635.8	635.8	635.8	635.8	635.8	634.5	632.8	631.9	633.8	637.3
177.5°	635.8	635.8	635.8	635.8	635.8	635.8	634.8	633.5	632.8	634.3	637.2
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8	975.8
2.5°	941.6	938.9	942.6	932.4	942.6	938.9	941.6	948.1	942.6	946.2	950.0
5°	826.3	821.6	806.8	794.8	806.8	821.6	826.3	845.7	854.8	871.4	893.7
7.5°	738.6	734.9	731.1	723.8	731.1	734.9	738.6	744.1	753.3	768.1	784.7
10°	719.2	720.1	725.6	724.7	725.6	720.1	719.2	717.3	714.5	717.3	727.5
12.5°	769.0	777.3	807.8	805.9	807.8	777.3	769.0	732.0	707.2	702.5	704.4
15°	826.3	829.0	835.5	836.4	835.5	829.0	826.3	811.5	736.7	704.4	694.2
17.5°	831.8	832.7	837.3	837.3	837.3	832.7	831.8	825.3	800.4	757.0	699.7
20°	827.2	829.0	838.2	840.1	838.2	829.0	827.2	818.9	805.0	789.3	745.9
22.5°	825.3	829.0	836.4	835.5	836.4	829.0	825.3	812.4	800.4	789.3	771.8
25°	816.1	816.1	817.0	817.9	817.0	816.1	816.1	805.9	782.0	779.1	769.0
27.5°	796.7	798.6	804.1	803.2	804.1	798.6	796.7	793.0	767.2	764.4	757.0
30°	779.1	777.3	772.7	769.0	772.7	777.3	779.1	773.6	747.7	740.4	742.2
32.5°	749.7	745.0	740.4	737.6	740.4	745.0	749.7	747.7	728.4	718.3	720.1
35°	714.5	715.4	714.5	711.8	714.5	715.4	714.5	716.4	704.4	695.2	694.2
37.5°	689.6	691.5	690.6	686.8	690.6	691.5	689.6	687.8	671.1	668.4	670.2
40°	663.8	664.7	663.8	661.0	663.8	664.7	663.8	660.1	637.0	637.9	644.4
42.5°	638.8	637.9	635.1	633.3	635.1	637.9	638.8	633.3	603.8	601.0	613.0
45°	610.3	611.2	605.6	602.8	605.6	611.2	610.3	606.5	576.0	568.7	577.0
47.5°	581.6	581.6	577.0	574.2	577.0	581.6	581.6	577.0	544.7	537.3	541.9
50°	551.2	550.2	543.7	542.8	543.7	550.2	551.2	548.4	514.2	507.8	507.8
52.5°	516.0	516.0	516.9	518.9	516.9	516.0	516.0	516.9	486.6	480.0	478.2
55°	485.6	486.6	493.0	494.8	493.0	486.6	485.6	485.6	457.9	451.4	447.7
57.5°	454.2	454.2	458.8	458.8	458.8	454.2	454.2	452.3	425.6	420.0	418.2
60°	418.2	420.0	423.7	422.8	423.7	420.0	418.2	416.4	393.2	389.6	383.1
62.5°	380.4	382.2	383.1	381.3	383.1	382.2	380.4	374.8	360.9	358.2	349.9
65°	340.6	342.5	343.4	341.6	343.4	342.5	340.6	337.9	327.7	323.1	315.7
67.5°	300.0	299.1	298.2	301.9	298.2	299.1	300.0	296.3	289.9	286.2	276.0
70°	258.5	258.5	257.6	259.4	257.6	258.5	258.5	255.8	252.0	249.2	240.1
72.5°	214.2	213.3	216.9	214.2	216.9	213.3	214.2	213.3	211.4	208.7	199.4
75°	170.8	172.6	170.8	173.5	170.8	172.6	170.8	171.7	170.8	168.9	162.5
77.5°	130.1	132.1	130.1	130.1	130.1	132.1	130.1	131.0	131.0	131.0	125.5
80°	92.3	91.4	91.4	90.5	91.4	91.4	92.3	92.3	93.2	91.4	89.6
82.5°	59.1	58.2	58.2	60.0	58.2	58.2	59.1	60.0	58.2	58.2	58.2
85°	32.3	33.2	31.4	31.4	31.4	33.2	32.3	30.5	32.3	32.3	31.4
87.5°	12.0	11.1	11.1	11.1	11.1	11.1	12.0	12.9	12.9	12.9	13.9
90°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	21.7	28.8	32.4	27.8
92.5°	81.0	77.8	64.9	52.0	64.9	77.8	81.0	114.9	160.0	182.6	160.3
95°	275.2	265.5	226.4	187.3	226.4	265.5	275.2	361.4	476.4	533.8	450.9
97.5°	635.4	616.8	542.4	468.1	542.4	616.8	635.4	689.9	762.5	798.9	660.5
100°	892.3	870.2	781.5	693.0	781.5	870.2	892.3	888.3	883.0	880.3	726.8
102.5°	1111.6	1092.6	1016.8	940.9	1016.8	1092.6	1111.6	1042.2	949.6	903.4	747.6
105°	1367.6	1357.5	1316.6	1275.9	1316.6	1357.5	1367.6	1212.0	1004.5	900.8	750.0
107.5°	1500.8	1503.3	1513.1	1522.9	1513.1	1503.3	1500.8	1283.8	994.3	849.6	716.6
110°	1534.9	1545.6	1588.0	1630.5	1588.0	1545.6	1534.9	1292.3	968.7	806.9	687.1



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1513.1	1529.4	1594.7	1659.9	1594.7	1529.4	1513.1	1264.8	933.7	768.1	661.2
115°	1439.3	1461.9	1552.4	1642.9	1552.4	1461.9	1439.3	1200.1	881.1	721.6	631.6
117.5°	1337.4	1362.4	1462.7	1563.0	1462.7	1362.4	1337.4	1121.4	833.5	689.6	613.0
120°	1268.6	1293.0	1390.5	1488.0	1390.5	1293.0	1268.6	1071.3	808.3	676.8	606.8
122.5°	1199.9	1223.9	1320.1	1416.3	1320.1	1223.9	1199.9	1022.2	785.4	667.0	603.6
125°	1109.0	1131.2	1219.8	1308.4	1219.8	1131.2	1109.0	958.2	756.9	656.3	600.8
127.5°	1036.1	1054.8	1129.5	1204.2	1129.5	1054.8	1036.1	906.5	733.7	647.3	599.3
130°	990.0	1007.3	1076.3	1145.3	1076.3	1007.3	990.0	874.7	720.8	643.9	600.3
132.5°	950.7	966.1	1028.0	1089.9	1028.0	966.1	950.7	847.5	709.7	640.9	600.8
135°	895.2	908.5	961.8	1015.2	961.8	908.5	895.2	808.8	693.4	635.8	600.3
137.5°	854.3	865.2	908.8	952.5	908.8	865.2	854.3	781.1	683.7	635.0	603.9
140°	821.4	831.6	872.5	913.2	872.5	831.6	821.4	758.3	674.0	631.9	604.6
142.5°	798.4	807.2	842.3	877.3	842.3	807.2	798.4	742.9	668.9	631.9	606.7
145°	763.8	770.4	797.0	823.5	797.0	770.4	763.8	718.5	658.0	627.7	606.8
147.5°	734.8	740.3	762.2	784.3	762.2	740.3	734.8	699.1	651.5	627.7	610.9
150°	718.2	722.7	740.5	758.3	740.5	722.7	718.2	688.0	647.8	627.7	613.1
152.5°	705.0	708.4	721.8	735.3	721.8	708.4	705.0	679.2	644.9	627.7	614.5
155°	689.2	691.4	700.3	709.2	700.3	691.4	689.2	668.7	641.4	627.7	617.6
157.5°	675.5	677.1	683.3	689.6	683.3	677.1	675.5	659.5	638.3	627.7	620.8
160°	668.6	669.6	673.1	676.8	673.1	669.6	668.6	655.0	636.8	627.7	622.2
162.5°	662.3	663.1	666.5	669.9	666.5	663.1	662.3	650.7	635.4	627.7	623.8
165°	652.5	653.4	657.0	660.6	657.0	653.4	652.5	644.2	633.2	627.7	625.9
167.5°	648.2	648.5	650.1	651.6	650.1	648.5	648.2	642.8	635.5	631.9	630.5
170°	648.2	648.2	648.2	648.2	648.2	648.2	648.2	642.8	635.5	631.9	631.8
172.5°	644.8	644.4	643.1	641.7	643.1	644.4	644.8	640.5	634.8	631.9	631.9
175°	640.1	640.1	640.1	640.1	640.1	640.1	640.1	637.3	633.8	631.9	632.8
177.5°	639.3	638.9	637.3	635.8	637.3	638.9	639.3	637.2	634.3	632.8	633.5
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	975.8	975.8	975.8	975.8	975.8
2.5°	963.8	968.4	971.2	974.9	984.1
5°	926.9	944.4	950.0	963.8	980.4
7.5°	845.7	899.2	913.9	947.2	973.0
10°	767.2	820.7	846.6	925.0	963.8
12.5°	727.5	758.8	776.4	886.2	950.9
15°	702.5	724.7	737.6	834.6	936.1
17.5°	683.1	698.8	708.1	783.8	915.8
20°	671.1	678.5	686.8	746.8	892.7
22.5°	662.9	658.3	664.7	721.0	861.3
25°	657.3	639.7	647.2	700.7	824.4
27.5°	661.9	623.1	626.0	682.2	785.6
30°	662.9	602.8	603.8	662.9	742.2
32.5°	656.4	581.6	582.6	638.8	693.3
35°	640.6	556.7	555.8	611.2	626.9
37.5°	619.4	529.9	529.9	580.7	553.9
40°	593.6	503.2	505.9	541.0	489.3
42.5°	562.2	474.5	478.2	488.4	441.3
45°	528.0	446.8	449.6	412.7	404.3
47.5°	490.2	418.2	419.1	342.5	392.3
50°	445.0	388.6	385.0	293.6	391.4
52.5°	405.3	356.3	345.2	265.9	355.4
55°	366.5	322.2	298.2	244.7	329.5
57.5°	332.4	277.9	254.8	219.7	324.0
60°	300.9	234.5	216.9	192.9	297.2
62.5°	275.1	202.2	198.5	174.5	269.5
65°	247.4	180.1	179.1	158.8	229.0
67.5°	220.6	165.3	164.4	144.0	174.5
70°	192.0	149.6	147.7	128.3	129.2
72.5°	162.5	132.1	130.1	115.4	107.1
75°	133.0	111.7	110.8	100.7	86.8
77.5°	104.3	88.6	90.5	81.2	63.7
80°	74.8	64.6	66.4	58.2	48.0
82.5°	49.8	42.5	44.3	36.9	32.3
85°	27.7	24.0	25.0	19.4	14.8
87.5°	12.9	11.1	11.1	7.3	4.6
90°	18.7	11.9	11.1	7.6	4.2
92.5°	115.7	82.3	75.1	46.1	17.1
95°	284.9	160.4	147.1	94.1	40.9
97.5°	383.8	176.2	164.5	117.6	70.8
100°	419.8	189.5	178.9	136.4	93.9
102.5°	436.3	202.7	192.8	153.2	113.5
105°	448.5	222.4	214.0	180.4	146.8
107.5°	450.8	251.4	243.6	212.3	181.0
110°	447.3	267.5	260.4	232.3	204.0



TEST NUMBER: P934664

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	447.5	287.1	280.4	253.5	226.6
115°	451.6	316.6	310.4	285.6	260.7
117.5°	460.0	345.2	339.5	317.0	294.4
120°	466.8	361.8	356.5	335.3	314.0
122.5°	476.7	381.5	376.2	354.7	333.3
125°	489.9	406.6	401.8	382.2	362.7
127.5°	503.1	430.9	426.0	406.4	386.6
130°	512.8	447.2	441.9	420.7	399.4
132.5°	520.6	460.4	455.1	433.9	412.6
135°	529.1	475.8	471.0	451.6	432.2
137.5°	541.9	495.4	490.6	471.4	452.3
140°	549.8	508.7	504.3	486.6	468.9
142.5°	556.3	518.5	514.5	498.1	481.8
145°	564.8	533.4	529.8	515.7	501.4
147.5°	577.3	552.2	548.7	534.8	521.0
150°	583.9	562.0	558.9	546.3	533.8
152.5°	588.2	568.4	566.0	556.6	547.0
155°	597.5	582.5	580.7	573.7	566.7
157.5°	607.0	596.6	594.8	588.1	581.2
160°	611.2	602.9	601.6	596.3	591.0
162.5°	615.8	609.8	608.8	604.9	600.8
165°	622.3	619.6	618.7	615.1	611.5
167.5°	627.4	625.1	624.7	623.0	621.3
170°	631.6	631.6	631.1	629.4	627.7
172.5°	631.9	631.9	631.8	631.5	631.1
175°	634.5	635.8	635.8	635.8	635.8
177.5°	634.8	635.8	635.8	635.8	635.8
180°	635.8	635.8	635.8	635.8	635.8



TEST NUMBER: P934664
 CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-5000K

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	9.83	10.60	10.89	11.65	13.09	12.66	13.42	13.71	14.48	15.91
	3H	10.30	10.99	11.36	12.05	13.50	13.99	14.68	15.06	15.74	17.19
	4H	10.49	11.14	11.56	12.20	13.66	14.43	15.08	15.51	16.15	17.60
	6H	10.60	11.20	11.69	12.27	13.74	14.71	15.31	15.79	16.38	17.85
	8H	10.60	11.17	11.69	12.26	13.72	14.78	15.35	15.87	16.44	17.90
	12H	10.57	11.11	11.66	12.19	13.68	14.82	15.35	15.91	16.44	17.92
4H	2H	10.85	11.50	11.93	12.57	14.03	13.05	13.70	14.14	14.77	16.23
	3H	11.87	12.41	12.96	13.50	14.98	14.55	15.09	15.64	16.18	17.65
	4H	12.14	12.64	13.24	13.72	15.21	15.07	15.57	16.17	16.65	18.14
	6H	12.26	12.69	13.36	13.79	15.28	15.43	15.86	16.53	16.96	18.45
	8H	12.26	12.66	13.37	13.76	15.26	15.53	15.93	16.64	17.03	18.53
	12H	12.23	12.59	13.35	13.70	15.21	15.58	15.94	16.70	17.06	18.56
8H	4H	12.59	12.98	13.69	14.08	15.58	15.19	15.59	16.29	16.69	18.19
	6H	12.84	13.17	13.97	14.31	15.81	15.62	15.95	16.74	17.09	18.59
	8H	12.89	13.17	14.02	14.30	15.81	15.77	16.06	16.90	17.18	18.70
	12H	12.86	13.12	14.00	14.24	15.79	15.86	16.11	17.00	17.24	18.79
12H	4H	12.59	12.95	13.71	14.06	15.57	15.15	15.51	16.27	16.62	18.13
	6H	12.90	13.19	14.03	14.31	15.83	15.62	15.90	16.75	17.03	18.54
	8H	12.97	13.22	14.10	14.34	15.89	15.77	16.02	16.91	17.14	18.70