

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: P934661

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934661
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-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

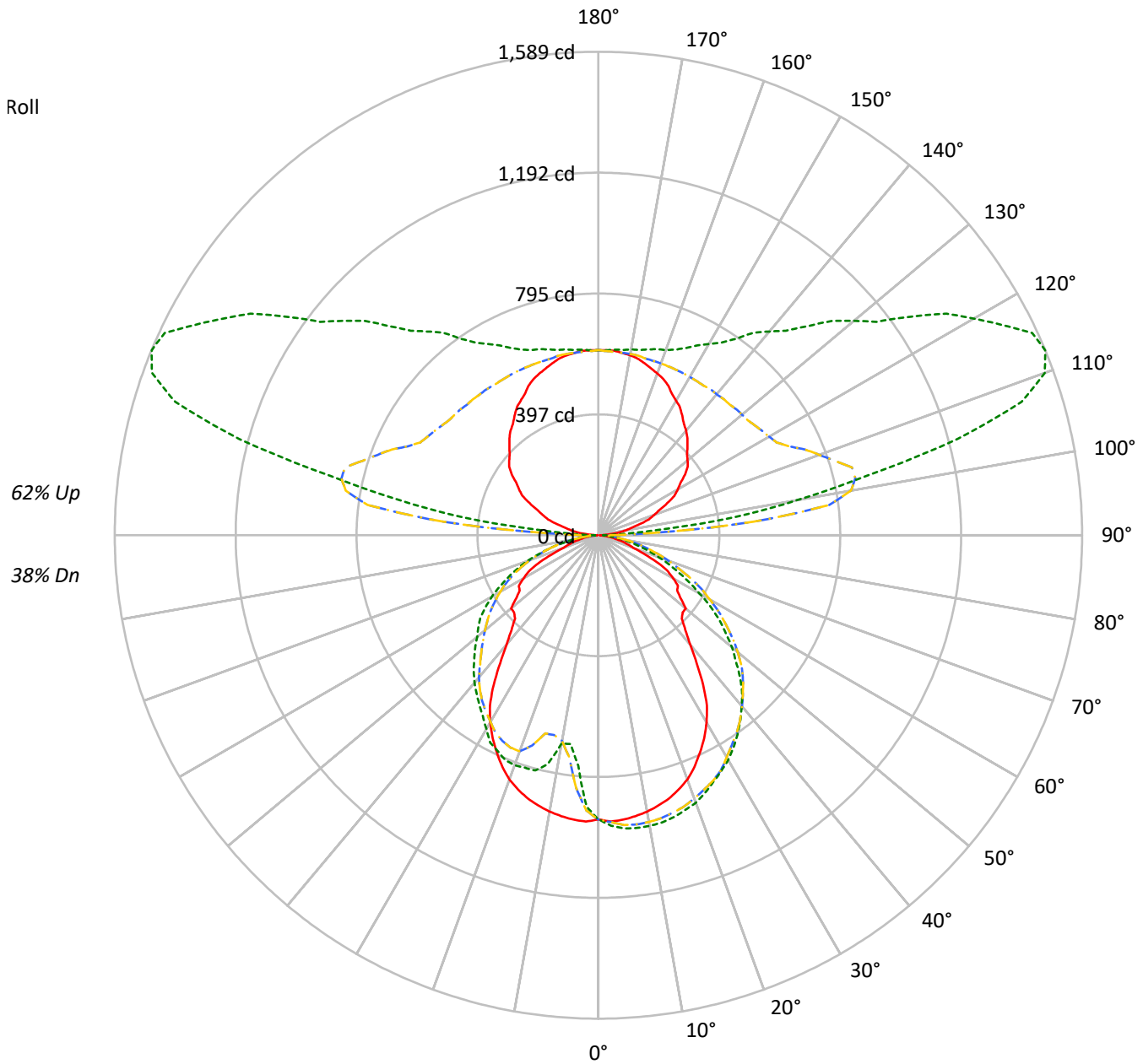
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6368.5 lumens
Efficiency: N/A
Efficacy: 123.4 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: P934661
CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

Luminous Intensity Polar Plot



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

TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					20
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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			
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32					32			
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27					27			
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23					23			
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20					20			
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17					17			
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15					15			
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13					13			
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12					12			
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11					11			
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10					10			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5777	5777	5777	5777
5°	5818	5831	5818	4585
10°	5777	5745	5777	4107
15°	5713	5621	5713	4693
20°	5591	5473	5591	4703
25°	5344	5258	5344	4603
30°	5026	5080	5026	4384
35°	4479	4853	4479	4144
40°	3730	4588	3730	3962
45°	3330	4276	3330	3754
50°	3535	3906	3535	3543
55°	3323	3506	3323	3422
60°	3421	2977	3421	3134
65°	3096	2461	3096	2751
70°	2139	1961	2139	2306
75°	1870	1450	1870	1736
80°	1494	958	1494	1044
85°	841	507	841	431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5107 cd/sqm



TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.3
10°-20°	239.4	3.8
20°-30°	370.0	5.8
30°-40°	441.7	6.9
40°-50°	444.3	7.0
50°-60°	386.6	6.1
60°-70°	274.1	4.3
70°-80°	145.0	2.3
80°-90°	38.4	0.6
90°-100°	296.6	4.7
100°-110°	779.8	12.2
110°-120°	808.6	12.7
120°-130°	648.6	10.2
130°-140°	508.9	8.0
140°-150°	390.6	6.1
150°-160°	281.3	4.4
160°-170°	172.1	2.7
170°-180°	58.1	0.9
0°-30°	693.7	10.9
0°-40°	1135.4	17.8
0°-60°	1966.2	30.9
0°-90°	2423.8	38.1
90°-120°	1885.0	29.6
90°-150°	3433.2	53.9
90°-180°	3945.0	61.9
0°-180°	6368.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	934	934	934	934	934	
5°	938	967	938	761	938	89
15°	896	959	896	800	896	252
25°	789	894	789	783	789	362
35°	600	798	600	681	600	371
45°	387	657	387	577	387	310
55°	315	485	315	474	315	290
65°	219	292	219	327	219	209
75°	83	139	83	166	83	87
85°	14	35	14	30	14	19
90°	4	16	4	16	4	4
95°	39	179	39	179	39	44
105°	140	1221	140	1221	140	149
115°	250	1572	250	1572	250	246
125°	347	1252	347	1252	347	308
135°	414	972	414	972	414	320
145°	480	788	480	788	480	301
155°	542	679	542	679	542	249
165°	585	632	585	632	585	165
175°	608	613	608	613	608	58
180°	608	608	608	608	608	



TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	941.9	941.9	947.2	948.9	948.9	946.3	943.6	946.3	954.3	956.9	956.0
5°	938.3	945.4	955.2	956.9	958.7	957.8	956.0	957.8	966.6	968.4	969.3
7.5°	931.3	944.5	956.9	959.5	962.2	959.5	958.7	960.4	969.3	971.0	971.0
10°	922.4	941.0	955.2	956.9	959.5	956.9	956.9	960.4	969.3	971.0	971.9
12.5°	910.1	935.7	948.9	950.7	954.3	953.4	952.4	956.0	964.8	966.6	966.6
15°	896.0	926.0	938.3	940.1	946.3	944.5	944.5	948.0	957.8	960.4	959.5
17.5°	876.5	913.6	927.7	930.4	934.8	933.9	934.8	938.3	947.2	948.9	949.8
20°	854.4	896.8	913.6	916.2	920.6	920.6	920.6	925.1	933.9	937.4	937.4
22.5°	824.4	879.1	896.8	898.6	903.9	903.9	905.6	911.9	919.8	920.6	920.6
25°	789.0	859.7	874.7	880.1	885.3	888.0	890.6	894.2	896.8	896.0	896.8
27.5°	751.9	834.9	854.4	857.9	865.0	867.7	871.2	872.1	872.9	875.6	873.8
30°	710.4	800.5	829.6	833.2	844.7	846.4	842.9	844.7	849.1	850.9	852.7
32.5°	663.6	749.3	804.0	812.0	822.6	817.3	816.4	819.0	826.1	826.1	827.9
35°	600.0	709.5	780.2	787.2	795.2	789.0	792.6	793.5	797.8	800.5	799.6
37.5°	530.1	675.1	755.4	760.7	766.9	758.9	764.3	766.9	770.4	768.7	768.7
40°	468.3	621.1	726.3	729.8	735.1	728.9	734.3	736.0	737.8	736.0	735.1
42.5°	422.4	561.9	695.4	699.7	696.2	700.6	702.5	706.0	703.3	699.7	699.7
45°	387.0	546.0	661.8	667.1	661.8	668.8	671.5	671.5	663.6	661.8	660.9
47.5°	375.5	514.2	628.2	628.2	625.5	634.4	638.8	632.6	624.6	622.0	622.0
50°	374.6	478.8	582.2	578.7	591.1	601.7	597.2	591.1	584.9	575.2	575.2
52.5°	340.2	435.5	523.0	536.3	555.8	561.9	554.9	548.7	538.0	533.7	530.1
55°	315.4	390.5	469.2	495.7	516.0	523.9	510.7	504.5	488.6	486.0	484.2
57.5°	310.1	325.1	419.7	453.3	478.0	477.1	469.2	457.7	444.4	441.8	440.9
60°	284.5	235.0	366.7	406.5	432.0	429.4	422.4	411.7	399.4	397.6	395.9
62.5°	258.0	170.6	306.6	351.7	387.9	387.0	380.8	364.9	356.1	351.7	348.2
65°	219.1	143.2	218.3	292.5	344.6	346.3	333.1	321.6	311.9	306.6	305.7
67.5°	167.0	116.6	147.6	243.9	303.1	301.3	284.5	279.2	266.8	264.2	258.9
70°	123.7	77.7	102.5	197.9	262.4	258.0	244.8	238.5	227.0	220.9	217.4
72.5°	102.5	62.7	75.1	153.7	220.9	215.6	204.1	197.0	187.3	182.0	178.5
75°	83.1	66.2	57.4	114.0	179.3	175.8	165.2	158.2	150.2	143.2	144.0
77.5°	61.0	61.8	45.9	84.0	142.3	136.9	130.8	121.9	118.4	111.4	111.4
80°	45.9	48.6	34.4	57.4	102.5	102.5	97.2	91.0	84.8	81.3	81.3
82.5°	30.9	30.9	25.6	36.2	69.8	67.2	63.6	61.8	58.3	56.6	56.6
85°	14.1	17.7	15.9	22.0	38.0	39.8	39.8	38.0	37.2	35.3	36.2
87.5°	4.4	8.0	9.7	12.4	19.4	20.3	21.2	21.2	21.2	22.0	22.0
90°	4.0	7.3	10.6	11.4	17.9	26.6	31.0	27.6	20.7	15.5	15.5
92.5°	16.3	44.1	71.8	78.8	110.8	153.4	174.8	153.2	110.0	77.6	74.5
95°	39.2	90.0	140.8	153.5	272.6	431.5	510.9	455.9	345.9	263.4	254.1
97.5°	67.8	112.6	157.4	168.6	367.3	632.1	764.6	729.8	660.3	608.1	590.3
100°	89.9	130.5	171.2	181.4	401.7	695.6	842.6	845.1	850.2	854.0	832.8
102.5°	108.6	146.6	184.5	194.0	417.5	715.6	864.6	908.9	997.5	1063.9	1045.7
105°	140.5	172.7	204.8	212.8	429.2	717.8	862.1	961.4	1160.0	1308.9	1299.2
107.5°	173.2	203.2	233.1	240.6	431.4	685.9	813.1	951.6	1228.7	1436.4	1438.7
110°	195.2	222.3	249.3	256.0	428.1	657.6	772.3	927.1	1236.8	1469.0	1479.2



TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	216.9	242.6	268.4	274.8	428.3	632.8	735.1	893.6	1210.5	1448.1	1463.8
115°	249.5	273.3	297.0	303.0	432.2	604.4	690.6	843.3	1148.6	1377.5	1399.1
117.5°	281.8	303.4	325.0	330.4	440.3	586.7	660.0	797.8	1073.3	1279.9	1303.9
120°	300.6	320.9	341.2	346.3	446.8	580.7	647.7	773.6	1025.3	1214.2	1237.5
122.5°	319.0	339.5	360.0	365.1	456.2	577.7	638.3	751.6	978.3	1148.4	1171.4
125°	347.1	365.8	384.5	389.2	468.8	575.0	628.2	724.4	917.0	1061.4	1082.6
127.5°	370.0	388.9	407.7	412.5	481.5	573.5	619.6	702.2	867.6	991.6	1009.5
130°	382.2	402.6	422.9	428.0	490.8	574.5	616.3	689.9	837.1	947.5	964.0
132.5°	394.9	415.3	435.5	440.6	498.3	575.0	613.4	679.3	811.1	909.9	924.7
135°	413.7	432.2	450.7	455.4	506.4	574.5	608.5	663.6	774.0	856.8	869.5
137.5°	432.9	451.2	469.5	474.1	518.6	578.0	607.7	654.3	747.6	817.6	828.1
140°	448.8	465.7	482.6	486.8	526.2	578.6	604.8	645.1	725.7	786.2	795.9
142.5°	461.1	476.7	492.4	496.2	532.4	580.6	604.8	640.2	711.0	764.1	772.6
145°	479.9	493.5	507.0	510.5	540.6	580.7	600.8	629.7	687.6	731.0	737.3
147.5°	498.6	511.9	525.1	528.5	552.5	584.7	600.8	623.5	669.1	703.3	708.5
150°	510.9	522.9	534.9	537.9	558.9	586.8	600.8	620.0	658.5	687.4	691.7
152.5°	523.6	532.7	541.7	544.0	562.9	588.1	600.8	617.2	650.0	674.7	678.0
155°	542.4	549.0	555.8	557.5	571.9	591.1	600.8	613.8	640.0	659.6	661.7
157.5°	556.2	562.8	569.3	571.0	580.9	594.2	600.8	610.9	631.2	646.5	648.0
160°	565.6	570.7	575.8	577.0	584.9	595.5	600.8	609.5	626.8	639.9	640.8
162.5°	575.0	578.9	582.7	583.6	589.3	597.0	600.8	608.1	622.8	633.9	634.7
165°	585.2	588.7	592.2	593.0	595.6	599.0	600.8	606.0	616.6	624.5	625.4
167.5°	594.6	596.3	597.9	598.3	600.5	603.4	604.8	608.2	615.2	620.3	620.7
170°	600.8	602.4	604.0	604.4	604.5	604.7	604.8	608.2	615.2	620.3	620.3
172.5°	604.0	604.4	604.7	604.8	604.8	604.8	604.8	607.5	613.0	617.1	616.7
175°	608.5	608.5	608.5	608.5	607.3	605.6	604.8	606.6	610.0	612.6	612.6
177.5°	608.5	608.5	608.5	608.5	607.5	606.3	605.7	607.1	609.8	611.8	611.5
180°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5



TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	957.8	955.2	957.8	956.0	956.9	954.3	946.3	943.6	946.3	948.9	948.9
5°	969.3	967.4	969.3	969.3	968.4	966.6	957.8	956.0	957.8	958.7	956.9
7.5°	972.8	970.2	972.8	971.0	971.0	969.3	960.4	958.7	959.5	962.2	959.5
10°	972.8	970.2	972.8	971.9	971.0	969.3	960.4	956.9	956.9	959.5	956.9
12.5°	968.4	966.6	968.4	966.6	966.6	964.8	956.0	952.4	953.4	954.3	950.7
15°	961.3	958.7	961.3	959.5	960.4	957.8	948.0	944.5	944.5	946.3	940.1
17.5°	950.7	947.2	950.7	949.8	948.9	947.2	938.3	934.8	933.9	934.8	930.4
20°	938.3	935.7	938.3	937.4	937.4	933.9	925.1	920.6	920.6	920.6	916.2
22.5°	918.9	916.2	918.9	920.6	920.6	919.8	911.9	905.6	903.9	903.9	898.6
25°	896.8	894.2	896.8	896.8	896.0	896.8	894.2	890.6	888.0	885.3	880.1
27.5°	875.6	873.8	875.6	873.8	875.6	872.9	872.1	871.2	867.7	865.0	857.9
30°	854.4	852.7	854.4	852.7	850.9	849.1	844.7	842.9	846.4	844.7	833.2
32.5°	827.9	826.1	827.9	827.9	826.1	826.1	819.0	816.4	817.3	822.6	812.0
35°	800.5	797.8	800.5	799.6	800.5	797.8	793.5	792.6	789.0	795.2	787.2
37.5°	768.7	766.1	768.7	768.7	768.7	770.4	766.9	764.3	758.9	766.9	760.7
40°	736.0	732.5	736.0	735.1	736.0	737.8	736.0	734.3	728.9	735.1	729.8
42.5°	698.9	698.0	698.9	699.7	699.7	703.3	706.0	702.5	700.6	696.2	699.7
45°	659.2	657.3	659.2	660.9	661.8	663.6	671.5	671.5	668.8	661.8	667.1
47.5°	616.7	612.3	616.7	622.0	622.0	624.6	632.6	638.8	634.4	625.5	628.2
50°	571.7	572.6	571.7	575.2	575.2	584.9	591.1	597.2	601.7	591.1	578.7
52.5°	527.5	526.6	527.5	530.1	533.7	538.0	548.7	554.9	561.9	555.8	536.3
55°	483.3	485.1	483.3	484.2	486.0	488.6	504.5	510.7	523.9	516.0	495.7
57.5°	439.2	436.5	439.2	440.9	441.8	444.4	457.7	469.2	477.1	478.0	453.3
60°	387.9	384.3	387.9	395.9	397.6	399.4	411.7	422.4	429.4	432.0	406.5
62.5°	342.8	336.7	342.8	348.2	351.7	356.1	364.9	380.8	387.0	387.9	351.7
65°	295.1	292.5	295.1	305.7	306.6	311.9	321.6	333.1	346.3	344.6	292.5
67.5°	251.8	251.8	251.8	258.9	264.2	266.8	279.2	284.5	301.3	303.1	243.9
70°	212.0	211.1	212.0	217.4	220.9	227.0	238.5	244.8	258.0	262.4	197.9
72.5°	174.1	173.2	174.1	178.5	182.0	187.3	197.0	204.1	215.6	220.9	153.7
75°	140.5	138.7	140.5	144.0	143.2	150.2	158.2	165.2	175.8	179.3	114.0
77.5°	107.8	107.8	107.8	111.4	111.4	118.4	121.9	130.8	136.9	142.3	84.0
80°	80.4	79.5	80.4	81.3	81.3	84.8	91.0	97.2	102.5	102.5	57.4
82.5°	56.6	54.8	56.6	56.6	56.6	58.3	61.8	63.6	67.2	69.8	36.2
85°	35.3	35.3	35.3	36.2	35.3	37.2	38.0	39.8	39.8	38.0	22.0
87.5°	23.0	22.0	23.0	22.0	22.0	21.2	21.2	21.2	20.3	19.4	12.4
90°	15.5	15.5	15.5	15.5	15.5	20.7	27.6	31.0	26.6	17.9	11.4
92.5°	62.1	49.8	62.1	74.5	77.6	110.0	153.2	174.8	153.4	110.8	78.8
95°	216.7	179.3	216.7	254.1	263.4	345.9	455.9	510.9	431.5	272.6	153.5
97.5°	519.2	448.0	519.2	590.3	608.1	660.3	729.8	764.6	632.1	367.3	168.6
100°	748.0	663.2	748.0	832.8	854.0	850.2	845.1	842.6	695.6	401.7	181.4
102.5°	973.2	900.5	973.2	1045.7	1063.9	997.5	908.9	864.6	715.6	417.5	194.0
105°	1260.1	1221.1	1260.1	1299.2	1308.9	1160.0	961.4	862.1	717.8	429.2	212.8
107.5°	1448.1	1457.5	1448.1	1438.7	1436.4	1228.7	951.6	813.1	685.9	431.4	240.6
110°	1519.8	1560.5	1519.8	1479.2	1469.0	1236.8	927.1	772.3	657.6	428.1	256.0



TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1526.2	1588.7	1526.2	1463.8	1448.1	1210.5	893.6	735.1	632.8	428.3	274.8
115°	1485.7	1572.3	1485.7	1399.1	1377.5	1148.6	843.3	690.6	604.4	432.2	303.0
117.5°	1399.9	1495.9	1399.9	1303.9	1279.9	1073.3	797.8	660.0	586.7	440.3	330.4
120°	1330.8	1424.1	1330.8	1237.5	1214.2	1025.3	773.6	647.7	580.7	446.8	346.3
122.5°	1263.4	1355.5	1263.4	1171.4	1148.4	978.3	751.6	638.3	577.7	456.2	365.1
125°	1167.4	1252.2	1167.4	1082.6	1061.4	917.0	724.4	628.2	575.0	468.8	389.2
127.5°	1081.0	1152.5	1081.0	1009.5	991.6	867.6	702.2	619.6	573.5	481.5	412.5
130°	1030.1	1096.1	1030.1	964.0	947.5	837.1	689.9	616.3	574.5	490.8	428.0
132.5°	983.9	1043.1	983.9	924.7	909.9	811.1	679.3	613.4	575.0	498.3	440.6
135°	920.5	971.6	920.5	869.5	856.8	774.0	663.6	608.5	574.5	506.4	455.4
137.5°	869.8	911.6	869.8	828.1	817.6	747.6	654.3	607.7	578.0	518.6	474.1
140°	835.0	874.0	835.0	795.9	786.2	725.7	645.1	604.8	578.6	526.2	486.8
142.5°	806.1	839.7	806.1	772.6	764.1	711.0	640.2	604.8	580.6	532.4	496.2
145°	762.8	788.2	762.8	737.3	731.0	687.6	629.7	600.8	580.7	540.6	510.5
147.5°	729.5	750.6	729.5	708.5	703.3	669.1	623.5	600.8	584.7	552.5	528.5
150°	708.7	725.7	708.7	691.7	687.4	658.5	620.0	600.8	586.8	558.9	537.9
152.5°	690.8	703.7	690.8	678.0	674.7	650.0	617.2	600.8	588.1	562.9	544.0
155°	670.2	678.8	670.2	661.7	659.6	640.0	613.8	600.8	591.1	571.9	557.5
157.5°	654.0	660.0	654.0	648.0	646.5	631.2	610.9	600.8	594.2	580.9	571.0
160°	644.2	647.7	644.2	640.8	639.9	626.8	609.5	600.8	595.5	584.9	577.0
162.5°	637.9	641.2	637.9	634.7	633.9	622.8	608.1	600.8	597.0	589.3	583.6
165°	628.8	632.2	628.8	625.4	624.5	616.6	606.0	600.8	599.0	595.6	593.0
167.5°	622.2	623.6	622.2	620.7	620.3	615.2	608.2	604.8	603.4	600.5	598.3
170°	620.3	620.3	620.3	620.3	620.3	615.2	608.2	604.8	604.7	604.5	604.4
172.5°	615.5	614.2	615.5	616.7	617.1	613.0	607.5	604.8	604.8	604.8	604.8
175°	612.6	612.6	612.6	612.6	612.6	610.0	606.6	604.8	605.6	607.3	608.5
177.5°	610.0	608.5	610.0	611.5	611.8	609.8	607.1	605.7	606.3	607.5	608.5
180°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5



TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	947.2	941.9	941.9	933.0	929.5	926.9	922.4	909.2	905.6	902.1	907.4
5°	955.2	945.4	938.3	922.4	909.2	903.9	887.1	855.3	834.0	818.1	809.4
7.5°	956.9	944.5	931.3	906.5	874.7	860.6	809.4	751.0	735.1	721.0	712.1
10°	955.2	941.0	922.4	885.3	810.2	785.5	734.3	696.2	686.5	683.8	686.5
12.5°	948.9	935.7	910.1	848.2	743.0	726.3	696.2	674.2	672.3	676.8	700.6
15°	938.3	926.0	896.0	798.7	706.0	693.6	672.3	664.4	674.2	705.1	776.7
17.5°	927.7	913.6	876.5	750.2	677.7	668.8	653.8	669.7	724.5	766.1	789.9
20°	913.6	896.8	854.4	714.8	657.3	649.4	642.3	713.9	755.4	770.4	783.7
22.5°	896.8	879.1	824.4	690.1	636.2	630.0	634.4	738.7	755.4	766.1	777.6
25°	874.7	859.7	789.0	670.6	619.4	612.3	629.1	736.0	745.7	748.4	771.3
27.5°	854.4	834.9	751.9	652.9	599.1	596.4	633.5	724.5	731.6	734.3	758.9
30°	829.6	800.5	710.4	634.4	577.8	577.0	634.4	710.4	708.6	715.6	740.4
32.5°	804.0	749.3	663.6	611.4	557.5	556.7	628.2	689.2	687.4	697.1	715.6
35°	780.2	709.5	600.0	584.9	531.9	532.8	613.1	664.4	665.3	674.2	685.6
37.5°	755.4	675.1	530.1	555.8	507.1	507.1	592.9	641.4	639.7	642.3	658.3
40°	726.3	621.1	468.3	517.8	484.2	481.6	568.1	616.7	610.5	609.6	631.8
42.5°	695.4	561.9	422.4	467.4	457.7	454.2	538.0	586.7	575.2	577.8	606.1
45°	661.8	546.0	387.0	395.0	430.3	427.6	505.4	552.2	544.3	551.3	580.5
47.5°	628.2	514.2	375.5	327.8	401.1	400.2	469.2	518.6	514.2	521.3	552.2
50°	582.2	478.8	374.6	281.0	368.4	372.0	425.9	486.0	486.0	492.1	524.9
52.5°	523.0	435.5	340.2	254.4	330.4	341.0	387.9	457.7	459.4	465.7	494.7
55°	469.2	390.5	315.4	234.2	285.4	308.4	350.8	428.5	432.0	438.3	464.7
57.5°	419.7	325.1	310.1	210.3	243.9	265.9	318.1	400.2	402.0	407.4	432.9
60°	366.7	235.0	284.5	184.6	207.6	224.4	288.0	366.7	372.8	376.4	398.5
62.5°	306.6	170.6	258.0	167.0	190.0	193.5	263.3	334.9	342.8	345.4	358.7
65°	218.3	143.2	219.1	151.9	171.4	172.3	236.8	302.1	309.2	313.6	323.4
67.5°	147.6	116.6	167.0	137.8	157.3	158.2	211.1	264.2	273.9	277.5	283.6
70°	102.5	77.7	123.7	122.8	141.4	143.2	183.7	229.8	238.5	241.2	244.8
72.5°	75.1	62.7	102.5	110.4	124.5	126.4	155.5	190.9	199.7	202.4	204.1
75°	57.4	66.2	83.1	96.3	106.0	106.9	127.3	155.5	161.7	163.5	164.3
77.5°	45.9	61.8	61.0	77.7	86.6	84.8	99.9	120.2	125.4	125.4	125.4
80°	34.4	48.6	45.9	55.7	63.6	61.8	71.6	85.7	87.5	89.2	88.4
82.5°	25.6	30.9	30.9	35.3	42.4	40.7	47.7	55.7	55.7	55.7	57.4
85°	15.9	17.7	14.1	18.5	23.9	23.0	26.5	30.0	30.9	30.9	29.2
87.5°	9.7	8.0	4.4	7.0	10.6	10.6	12.4	13.3	12.4	12.4	12.4
90°	10.6	7.3	4.0	7.3	10.6	11.4	17.9	26.6	31.0	27.6	20.7
92.5°	71.8	44.1	16.3	44.1	71.8	78.8	110.8	153.4	174.8	153.2	110.0
95°	140.8	90.0	39.2	90.0	140.8	153.5	272.6	431.5	510.9	455.9	345.9
97.5°	157.4	112.6	67.8	112.6	157.4	168.6	367.3	632.1	764.6	729.8	660.3
100°	171.2	130.5	89.9	130.5	171.2	181.4	401.7	695.6	842.6	845.1	850.2
102.5°	184.5	146.6	108.6	146.6	184.5	194.0	417.5	715.6	864.6	908.9	997.5
105°	204.8	172.7	140.5	172.7	204.8	212.8	429.2	717.8	862.1	961.4	1160.0
107.5°	233.1	203.2	173.2	203.2	233.1	240.6	431.4	685.9	813.1	951.6	1228.7
110°	249.3	222.3	195.2	222.3	249.3	256.0	428.1	657.6	772.3	927.1	1236.8



TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	268.4	242.6	216.9	242.6	268.4	274.8	428.3	632.8	735.1	893.6	1210.5
115°	297.0	273.3	249.5	273.3	297.0	303.0	432.2	604.4	690.6	843.3	1148.6
117.5°	325.0	303.4	281.8	303.4	325.0	330.4	440.3	586.7	660.0	797.8	1073.3
120°	341.2	320.9	300.6	320.9	341.2	346.3	446.8	580.7	647.7	773.6	1025.3
122.5°	360.0	339.5	319.0	339.5	360.0	365.1	456.2	577.7	638.3	751.6	978.3
125°	384.5	365.8	347.1	365.8	384.5	389.2	468.8	575.0	628.2	724.4	917.0
127.5°	407.7	388.9	370.0	388.9	407.7	412.5	481.5	573.5	619.6	702.2	867.6
130°	422.9	402.6	382.2	402.6	422.9	428.0	490.8	574.5	616.3	689.9	837.1
132.5°	435.5	415.3	394.9	415.3	435.5	440.6	498.3	575.0	613.4	679.3	811.1
135°	450.7	432.2	413.7	432.2	450.7	455.4	506.4	574.5	608.5	663.6	774.0
137.5°	469.5	451.2	432.9	451.2	469.5	474.1	518.6	578.0	607.7	654.3	747.6
140°	482.6	465.7	448.8	465.7	482.6	486.8	526.2	578.6	604.8	645.1	725.7
142.5°	492.4	476.7	461.1	476.7	492.4	496.2	532.4	580.6	604.8	640.2	711.0
145°	507.0	493.5	479.9	493.5	507.0	510.5	540.6	580.7	600.8	629.7	687.6
147.5°	525.1	511.9	498.6	511.9	525.1	528.5	552.5	584.7	600.8	623.5	669.1
150°	534.9	522.9	510.9	522.9	534.9	537.9	558.9	586.8	600.8	620.0	658.5
152.5°	541.7	532.7	523.6	532.7	541.7	544.0	562.9	588.1	600.8	617.2	650.0
155°	555.8	549.0	542.4	549.0	555.8	557.5	571.9	591.1	600.8	613.8	640.0
157.5°	569.3	562.8	556.2	562.8	569.3	571.0	580.9	594.2	600.8	610.9	631.2
160°	575.8	570.7	565.6	570.7	575.8	577.0	584.9	595.5	600.8	609.5	626.8
162.5°	582.7	578.9	575.0	578.9	582.7	583.6	589.3	597.0	600.8	608.1	622.8
165°	592.2	588.7	585.2	588.7	592.2	593.0	595.6	599.0	600.8	606.0	616.6
167.5°	597.9	596.3	594.6	596.3	597.9	598.3	600.5	603.4	604.8	608.2	615.2
170°	604.0	602.4	600.8	602.4	604.0	604.4	604.5	604.7	604.8	608.2	615.2
172.5°	604.7	604.4	604.0	604.4	604.7	604.8	604.8	604.8	604.8	607.5	613.0
175°	608.5	608.5	608.5	608.5	608.5	608.5	607.3	605.6	604.8	606.6	610.0
177.5°	608.5	608.5	608.5	608.5	608.5	608.5	607.5	606.3	605.7	607.1	609.8
180°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5



TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	901.2	898.6	902.1	892.4	902.1	898.6	901.2	907.4	902.1	905.6	909.2
5°	790.8	786.3	772.2	760.7	772.2	786.3	790.8	809.4	818.1	834.0	855.3
7.5°	706.9	703.3	699.7	692.7	699.7	703.3	706.9	712.1	721.0	735.1	751.0
10°	688.3	689.2	694.5	693.6	694.5	689.2	688.3	686.5	683.8	686.5	696.2
12.5°	736.0	743.9	773.1	771.3	773.1	743.9	736.0	700.6	676.8	672.3	674.2
15°	790.8	793.5	799.6	800.5	799.6	793.5	790.8	776.7	705.1	674.2	664.4
17.5°	796.1	797.0	801.4	801.4	801.4	797.0	796.1	789.9	766.1	724.5	669.7
20°	791.7	793.5	802.2	804.0	802.2	793.5	791.7	783.7	770.4	755.4	713.9
22.5°	789.9	793.5	800.5	799.6	800.5	793.5	789.9	777.6	766.1	755.4	738.7
25°	781.1	781.1	782.0	782.8	782.0	781.1	781.1	771.3	748.4	745.7	736.0
27.5°	762.5	764.3	769.6	768.7	769.6	764.3	762.5	758.9	734.3	731.6	724.5
30°	745.7	743.9	739.5	736.0	739.5	743.9	745.7	740.4	715.6	708.6	710.4
32.5°	717.5	713.0	708.6	706.0	708.6	713.0	717.5	715.6	697.1	687.4	689.2
35°	683.8	684.7	683.8	681.2	683.8	684.7	683.8	685.6	674.2	665.3	664.4
37.5°	660.0	661.8	660.9	657.3	660.9	661.8	660.0	658.3	642.3	639.7	641.4
40°	635.3	636.2	635.3	632.6	635.3	636.2	635.3	631.8	609.6	610.5	616.7
42.5°	611.4	610.5	607.9	606.1	607.9	610.5	611.4	606.1	577.8	575.2	586.7
45°	584.1	584.9	579.6	577.0	579.6	584.9	584.1	580.5	551.3	544.3	552.2
47.5°	556.7	556.7	552.2	549.6	552.2	556.7	556.7	552.2	521.3	514.2	518.6
50°	527.5	526.6	520.4	519.5	520.4	526.6	527.5	524.9	492.1	486.0	486.0
52.5°	493.9	493.9	494.7	496.6	494.7	493.9	493.9	494.7	465.7	459.4	457.7
55°	464.7	465.7	471.8	473.6	471.8	465.7	464.7	464.7	438.3	432.0	428.5
57.5°	434.7	434.7	439.2	439.2	439.2	434.7	434.7	432.9	407.4	402.0	400.2
60°	400.2	402.0	405.5	404.6	405.5	402.0	400.2	398.5	376.4	372.8	366.7
62.5°	364.1	365.8	366.7	364.9	366.7	365.8	364.1	358.7	345.4	342.8	334.9
65°	326.0	327.8	328.7	326.9	328.7	327.8	326.0	323.4	313.6	309.2	302.1
67.5°	287.1	286.2	285.4	289.0	285.4	286.2	287.1	283.6	277.5	273.9	264.2
70°	247.4	247.4	246.5	248.3	246.5	247.4	247.4	244.8	241.2	238.5	229.8
72.5°	205.0	204.1	207.6	205.0	207.6	204.1	205.0	204.1	202.4	199.7	190.9
75°	163.5	165.2	163.5	166.1	163.5	165.2	163.5	164.3	163.5	161.7	155.5
77.5°	124.5	126.4	124.5	124.5	124.5	126.4	124.5	125.4	125.4	125.4	120.2
80°	88.4	87.5	87.5	86.6	87.5	87.5	88.4	88.4	89.2	87.5	85.7
82.5°	56.6	55.7	55.7	57.4	55.7	55.7	56.6	57.4	55.7	55.7	55.7
85°	30.9	31.8	30.0	30.0	30.0	31.8	30.9	29.2	30.9	30.9	30.0
87.5°	11.5	10.6	10.6	10.6	10.6	10.6	11.5	12.4	12.4	12.4	13.3
90°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	20.7	27.6	31.0	26.6
92.5°	77.6	74.5	62.1	49.8	62.1	74.5	77.6	110.0	153.2	174.8	153.4
95°	263.4	254.1	216.7	179.3	216.7	254.1	263.4	345.9	455.9	510.9	431.5
97.5°	608.1	590.3	519.2	448.0	519.2	590.3	608.1	660.3	729.8	764.6	632.1
100°	854.0	832.8	748.0	663.2	748.0	832.8	854.0	850.2	845.1	842.6	695.6
102.5°	1063.9	1045.7	973.2	900.5	973.2	1045.7	1063.9	997.5	908.9	864.6	715.6
105°	1308.9	1299.2	1260.1	1221.1	1260.1	1299.2	1308.9	1160.0	961.4	862.1	717.8
107.5°	1436.4	1438.7	1448.1	1457.5	1448.1	1438.7	1436.4	1228.7	951.6	813.1	685.9
110°	1469.0	1479.2	1519.8	1560.5	1519.8	1479.2	1469.0	1236.8	927.1	772.3	657.6



TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1448.1	1463.8	1526.2	1588.7	1526.2	1463.8	1448.1	1210.5	893.6	735.1	632.8
115°	1377.5	1399.1	1485.7	1572.3	1485.7	1399.1	1377.5	1148.6	843.3	690.6	604.4
117.5°	1279.9	1303.9	1399.9	1495.9	1399.9	1303.9	1279.9	1073.3	797.8	660.0	586.7
120°	1214.2	1237.5	1330.8	1424.1	1330.8	1237.5	1214.2	1025.3	773.6	647.7	580.7
122.5°	1148.4	1171.4	1263.4	1355.5	1263.4	1171.4	1148.4	978.3	751.6	638.3	577.7
125°	1061.4	1082.6	1167.4	1252.2	1167.4	1082.6	1061.4	917.0	724.4	628.2	575.0
127.5°	991.6	1009.5	1081.0	1152.5	1081.0	1009.5	991.6	867.6	702.2	619.6	573.5
130°	947.5	964.0	1030.1	1096.1	1030.1	964.0	947.5	837.1	689.9	616.3	574.5
132.5°	909.9	924.7	983.9	1043.1	983.9	924.7	909.9	811.1	679.3	613.4	575.0
135°	856.8	869.5	920.5	971.6	920.5	869.5	856.8	774.0	663.6	608.5	574.5
137.5°	817.6	828.1	869.8	911.6	869.8	828.1	817.6	747.6	654.3	607.7	578.0
140°	786.2	795.9	835.0	874.0	835.0	795.9	786.2	725.7	645.1	604.8	578.6
142.5°	764.1	772.6	806.1	839.7	806.1	772.6	764.1	711.0	640.2	604.8	580.6
145°	731.0	737.3	762.8	788.2	762.8	737.3	731.0	687.6	629.7	600.8	580.7
147.5°	703.3	708.5	729.5	750.6	729.5	708.5	703.3	669.1	623.5	600.8	584.7
150°	687.4	691.7	708.7	725.7	708.7	691.7	687.4	658.5	620.0	600.8	586.8
152.5°	674.7	678.0	690.8	703.7	690.8	678.0	674.7	650.0	617.2	600.8	588.1
155°	659.6	661.7	670.2	678.8	670.2	661.7	659.6	640.0	613.8	600.8	591.1
157.5°	646.5	648.0	654.0	660.0	654.0	648.0	646.5	631.2	610.9	600.8	594.2
160°	639.9	640.8	644.2	647.7	644.2	640.8	639.9	626.8	609.5	600.8	595.5
162.5°	633.9	634.7	637.9	641.2	637.9	634.7	633.9	622.8	608.1	600.8	597.0
165°	624.5	625.4	628.8	632.2	628.8	625.4	624.5	616.6	606.0	600.8	599.0
167.5°	620.3	620.7	622.2	623.6	622.2	620.7	620.3	615.2	608.2	604.8	603.4
170°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	615.2	608.2	604.8	604.7
172.5°	617.1	616.7	615.5	614.2	615.5	616.7	617.1	613.0	607.5	604.8	604.8
175°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	610.0	606.6	604.8	605.6
177.5°	611.8	611.5	610.0	608.5	610.0	611.5	611.8	609.8	607.1	605.7	606.3
180°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5



TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	933.9	933.9	933.9	933.9	933.9
2.5°	922.4	926.9	929.5	933.0	941.9
5°	887.1	903.9	909.2	922.4	938.3
7.5°	809.4	860.6	874.7	906.5	931.3
10°	734.3	785.5	810.2	885.3	922.4
12.5°	696.2	726.3	743.0	848.2	910.1
15°	672.3	693.6	706.0	798.7	896.0
17.5°	653.8	668.8	677.7	750.2	876.5
20°	642.3	649.4	657.3	714.8	854.4
22.5°	634.4	630.0	636.2	690.1	824.4
25°	629.1	612.3	619.4	670.6	789.0
27.5°	633.5	596.4	599.1	652.9	751.9
30°	634.4	577.0	577.8	634.4	710.4
32.5°	628.2	556.7	557.5	611.4	663.6
35°	613.1	532.8	531.9	584.9	600.0
37.5°	592.9	507.1	507.1	555.8	530.1
40°	568.1	481.6	484.2	517.8	468.3
42.5°	538.0	454.2	457.7	467.4	422.4
45°	505.4	427.6	430.3	395.0	387.0
47.5°	469.2	400.2	401.1	327.8	375.5
50°	425.9	372.0	368.4	281.0	374.6
52.5°	387.9	341.0	330.4	254.4	340.2
55°	350.8	308.4	285.4	234.2	315.4
57.5°	318.1	265.9	243.9	210.3	310.1
60°	288.0	224.4	207.6	184.6	284.5
62.5°	263.3	193.5	190.0	167.0	258.0
65°	236.8	172.3	171.4	151.9	219.1
67.5°	211.1	158.2	157.3	137.8	167.0
70°	183.7	143.2	141.4	122.8	123.7
72.5°	155.5	126.4	124.5	110.4	102.5
75°	127.3	106.9	106.0	96.3	83.1
77.5°	99.9	84.8	86.6	77.7	61.0
80°	71.6	61.8	63.6	55.7	45.9
82.5°	47.7	40.7	42.4	35.3	30.9
85°	26.5	23.0	23.9	18.5	14.1
87.5°	12.4	10.6	10.6	7.0	4.4
90°	17.9	11.4	10.6	7.3	4.0
92.5°	110.8	78.8	71.8	44.1	16.3
95°	272.6	153.5	140.8	90.0	39.2
97.5°	367.3	168.6	157.4	112.6	67.8
100°	401.7	181.4	171.2	130.5	89.9
102.5°	417.5	194.0	184.5	146.6	108.6
105°	429.2	212.8	204.8	172.7	140.5
107.5°	431.4	240.6	233.1	203.2	173.2
110°	428.1	256.0	249.3	222.3	195.2



TEST NUMBER: P934661

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	428.3	274.8	268.4	242.6	216.9
115°	432.2	303.0	297.0	273.3	249.5
117.5°	440.3	330.4	325.0	303.4	281.8
120°	446.8	346.3	341.2	320.9	300.6
122.5°	456.2	365.1	360.0	339.5	319.0
125°	468.8	389.2	384.5	365.8	347.1
127.5°	481.5	412.5	407.7	388.9	370.0
130°	490.8	428.0	422.9	402.6	382.2
132.5°	498.3	440.6	435.5	415.3	394.9
135°	506.4	455.4	450.7	432.2	413.7
137.5°	518.6	474.1	469.5	451.2	432.9
140°	526.2	486.8	482.6	465.7	448.8
142.5°	532.4	496.2	492.4	476.7	461.1
145°	540.6	510.5	507.0	493.5	479.9
147.5°	552.5	528.5	525.1	511.9	498.6
150°	558.9	537.9	534.9	522.9	510.9
152.5°	562.9	544.0	541.7	532.7	523.6
155°	571.9	557.5	555.8	549.0	542.4
157.5°	580.9	571.0	569.3	562.8	556.2
160°	584.9	577.0	575.8	570.7	565.6
162.5°	589.3	583.6	582.7	578.9	575.0
165°	595.6	593.0	592.2	588.7	585.2
167.5°	600.5	598.3	597.9	596.3	594.6
170°	604.5	604.4	604.0	602.4	600.8
172.5°	604.8	604.8	604.7	604.4	604.0
175°	607.3	608.5	608.5	608.5	608.5
177.5°	607.5	608.5	608.5	608.5	608.5
180°	608.5	608.5	608.5	608.5	608.5



TEST NUMBER: P934661
 CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3000K

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	9.68	10.44	10.73	11.50	12.93	12.50	13.27	13.56	14.33	15.76
	3H	10.15	10.83	11.21	11.90	13.35	13.84	14.52	14.90	15.59	17.04
	4H	10.34	10.98	11.41	12.05	13.51	14.28	14.93	15.35	16.00	17.45
	6H	10.45	11.05	11.53	12.12	13.59	14.56	15.15	15.64	16.23	17.70
	8H	10.45	11.02	11.54	12.10	13.57	14.63	15.20	15.72	16.28	17.75
	12H	10.42	10.95	11.51	12.04	13.52	14.66	15.20	15.76	16.28	17.77
4H	2H	10.70	11.35	11.78	12.42	13.87	12.90	13.55	13.98	14.62	16.08
	3H	11.72	12.26	12.81	13.35	14.82	14.40	14.94	15.49	16.03	17.50
	4H	11.99	12.48	13.08	13.57	15.06	14.92	15.41	16.01	16.50	17.99
	6H	12.11	12.53	13.21	13.64	15.13	15.28	15.70	16.38	16.81	18.30
	8H	12.11	12.51	13.21	13.61	15.11	15.38	15.78	16.48	16.88	18.38
	12H	12.07	12.43	13.19	13.55	15.05	15.43	15.79	16.55	16.91	18.41
8H	4H	12.43	12.83	13.54	13.93	15.43	15.04	15.43	16.14	16.53	18.03
	6H	12.69	13.02	13.82	14.16	15.66	15.47	15.79	16.59	16.94	18.44
	8H	12.73	13.02	13.86	14.14	15.66	15.62	15.90	16.75	17.03	18.55
	12H	12.71	12.96	13.85	14.08	15.64	15.71	15.96	16.84	17.08	18.64
12H	4H	12.43	12.79	13.55	13.91	15.41	15.00	15.36	16.12	16.47	17.97
	6H	12.75	13.04	13.88	14.16	15.68	15.46	15.75	16.59	16.87	18.39
	8H	12.81	13.07	13.95	14.19	15.74	15.62	15.87	16.75	16.99	18.55