

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: P934662

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934662
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-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

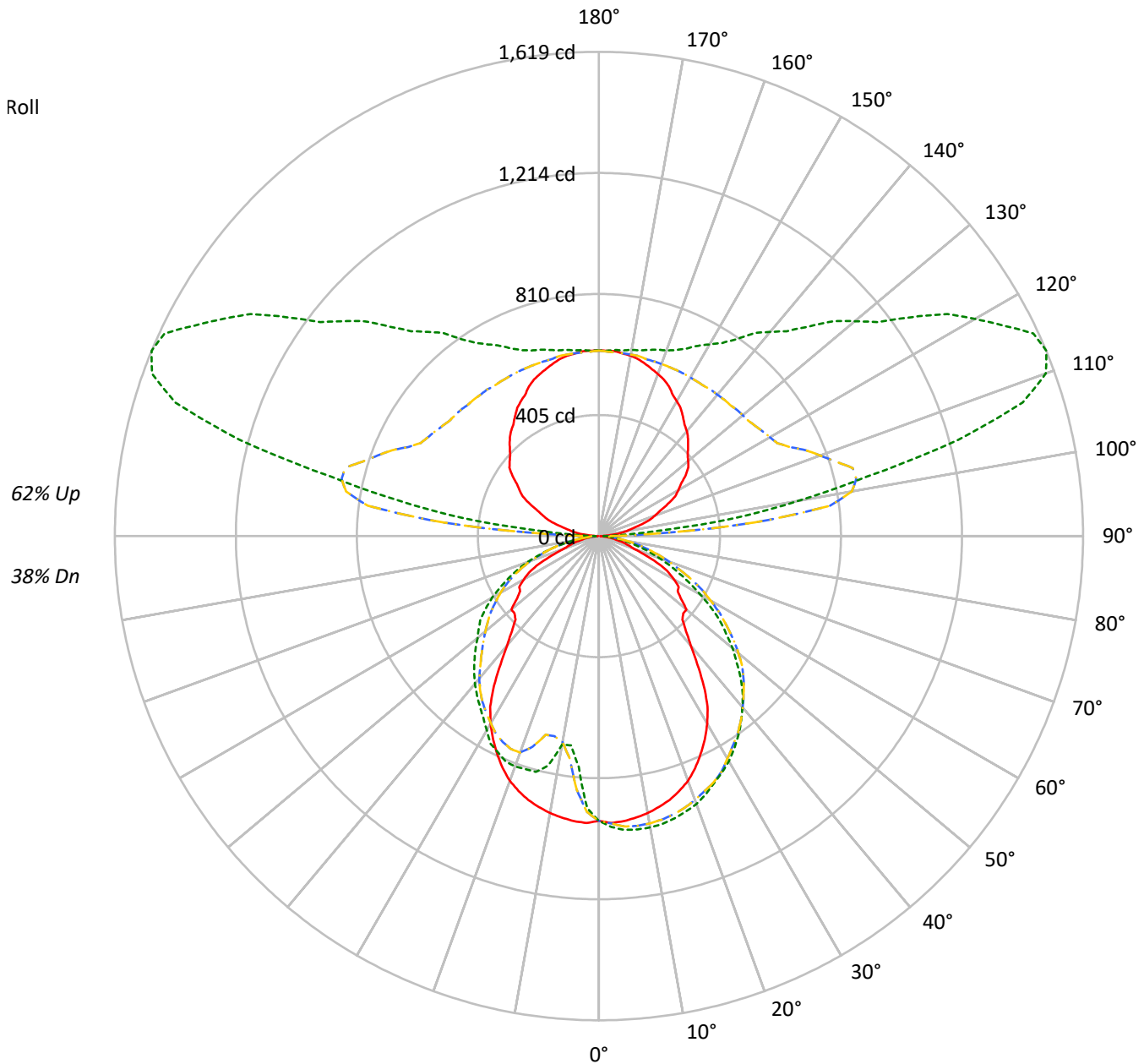
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6491.9 lumens
Efficiency: N/A
Efficacy: 125.8 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: P934662
CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3500K

Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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
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°	5889	5889	5889	5889
5°	5931	5945	5931	4674
10°	5889	5856	5889	4187
15°	5823	5729	5823	4784
20°	5699	5579	5699	4794
25°	5448	5360	5448	4692
30°	5123	5178	5123	4470
35°	4565	4947	4565	4224
40°	3802	4677	3802	4039
45°	3395	4359	3395	3826
50°	3604	3981	3604	3612
55°	3387	3573	3387	3489
60°	3487	3035	3487	3195
65°	3157	2508	3157	2804
70°	2181	1999	2181	2351
75°	1906	1478	1906	1769
80°	1523	976	1523	1064
85°	859	517	859	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5206 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	1.3
10°-20°	244.0	3.8
20°-30°	377.2	5.8
30°-40°	450.3	6.9
40°-50°	452.9	7.0
50°-60°	394.1	6.1
60°-70°	279.4	4.3
70°-80°	147.8	2.3
80°-90°	39.2	0.6
90°-100°	302.4	4.7
100°-110°	794.9	12.2
110°-120°	824.3	12.7
120°-130°	661.2	10.2
130°-140°	518.8	8.0
140°-150°	398.2	6.1
150°-160°	286.8	4.4
160°-170°	175.5	2.7
170°-180°	59.3	0.9
0°-30°	707.1	10.9
0°-40°	1157.4	17.8
0°-60°	2004.3	30.9
0°-90°	2470.8	38.1
90°-120°	1921.6	29.6
90°-150°	3499.7	53.9
90°-180°	4021.0	61.9
0°-180°	6491.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	952	952	952	952	952	
5°	956	986	956	775	956	91
15°	913	977	913	816	913	257
25°	804	912	804	798	804	369
35°	612	813	612	694	612	378
45°	394	670	394	588	394	316
55°	322	494	322	483	322	295
65°	223	298	223	333	223	213
75°	85	141	85	169	85	89
85°	14	36	14	31	14	19
90°	4	16	4	16	4	4
95°	40	183	40	183	40	44
105°	143	1245	143	1245	143	152
115°	254	1603	254	1603	254	251
125°	354	1276	354	1276	354	314
135°	422	990	422	990	422	326
145°	489	804	489	804	489	306
155°	553	692	553	692	553	254
165°	596	644	596	644	596	168
175°	620	624	620	624	620	59
180°	620	620	620	620	620	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	960.1	960.1	965.5	967.3	967.3	964.6	961.9	964.6	972.8	975.4	974.5
5°	956.5	963.7	973.7	975.4	977.2	976.3	974.5	976.3	985.3	987.2	988.1
7.5°	949.3	962.8	975.4	978.1	980.8	978.1	977.2	979.0	988.1	989.9	989.9
10°	940.3	959.2	973.7	975.4	978.1	975.4	975.4	979.0	988.1	989.9	990.8
12.5°	927.7	953.8	967.3	969.1	972.8	971.9	970.9	974.5	983.5	985.3	985.3
15°	913.3	943.9	956.5	958.3	964.6	962.8	962.8	966.4	976.3	979.0	978.1
17.5°	893.4	931.3	945.7	948.4	952.9	952.0	952.9	956.5	965.5	967.3	968.2
20°	871.0	914.2	931.3	934.0	938.5	938.5	938.5	943.0	952.0	955.6	955.6
22.5°	840.3	896.1	914.2	916.0	921.4	921.4	923.2	929.5	937.6	938.5	938.5
25°	804.3	876.3	891.6	897.1	902.5	905.2	907.8	911.5	914.2	913.3	914.2
27.5°	766.5	851.1	871.0	874.5	881.8	884.5	888.1	889.0	889.9	892.5	890.7
30°	724.1	816.0	845.7	849.3	861.0	862.8	859.2	861.0	865.5	867.4	869.2
32.5°	676.4	763.8	819.6	827.7	838.5	833.1	832.2	834.9	842.1	842.1	843.9
35°	611.6	723.2	795.3	802.5	810.6	804.3	807.9	808.8	813.3	816.0	815.1
37.5°	540.4	688.1	770.1	775.4	781.8	773.6	779.1	781.8	785.4	783.6	783.6
40°	477.4	633.2	740.3	743.9	749.4	743.0	748.5	750.3	752.1	750.3	749.4
42.5°	430.6	572.8	708.8	713.3	709.7	714.2	716.1	719.7	717.0	713.3	713.3
45°	394.5	556.6	674.6	680.0	674.6	681.8	684.5	684.5	676.4	674.6	673.7
47.5°	382.7	524.2	640.4	640.4	637.6	646.7	651.2	644.9	636.7	634.1	634.1
50°	381.9	488.1	593.5	589.9	602.5	613.4	608.8	602.5	596.3	586.3	586.3
52.5°	346.8	444.0	533.2	546.7	566.6	572.8	565.7	559.3	548.5	544.0	540.4
55°	321.5	398.1	478.3	505.3	526.0	534.1	520.6	514.3	498.1	495.4	493.6
57.5°	316.1	331.4	427.8	462.1	487.2	486.3	478.3	466.5	453.0	450.3	449.4
60°	290.0	239.6	373.8	414.4	440.4	437.7	430.6	419.7	407.1	405.3	403.5
62.5°	263.0	173.9	312.6	358.5	395.4	394.5	388.2	372.0	363.0	358.5	354.9
65°	223.4	145.9	222.5	298.1	351.2	353.0	339.6	327.9	317.9	312.6	311.7
67.5°	170.2	118.9	150.4	248.6	309.0	307.1	290.0	284.6	272.0	269.3	263.9
70°	126.1	79.2	104.5	201.7	267.5	263.0	249.5	243.2	231.4	225.2	221.6
72.5°	104.5	63.9	76.5	156.7	225.2	219.8	208.1	200.8	191.0	185.5	181.9
75°	84.7	67.5	58.6	116.2	182.8	179.2	168.4	161.2	153.1	145.9	146.8
77.5°	62.1	63.0	46.8	85.6	145.0	139.6	133.3	124.3	120.7	113.5	113.5
80°	46.8	49.5	35.1	58.6	104.5	104.5	99.1	92.8	86.5	82.9	82.9
82.5°	31.5	31.5	26.1	36.9	71.2	68.5	64.8	63.0	59.4	57.7	57.7
85°	14.4	18.0	16.2	22.5	38.8	40.6	40.6	38.8	37.9	36.0	36.9
87.5°	4.5	8.1	9.9	12.6	19.8	20.7	21.6	21.6	21.6	22.5	22.5
90°	4.1	7.4	10.8	11.6	18.3	27.1	31.6	28.1	21.1	15.8	15.8
92.5°	16.7	44.9	73.2	80.3	112.9	156.4	178.2	156.1	112.1	79.1	75.9
95°	39.9	91.8	143.5	156.5	277.9	439.9	520.8	464.8	352.6	268.5	259.0
97.5°	69.1	114.8	160.4	171.9	374.4	644.4	779.4	743.9	673.1	619.9	601.7
100°	91.6	133.0	174.5	184.9	409.5	709.1	858.9	861.5	866.7	870.5	848.9
102.5°	110.8	149.4	188.1	197.8	425.6	729.4	881.3	926.5	1016.8	1084.5	1066.0
105°	143.2	176.0	208.8	216.9	437.5	731.7	878.8	980.0	1182.4	1334.3	1324.3
107.5°	176.6	207.1	237.6	245.2	439.8	699.1	828.9	970.1	1252.5	1464.2	1466.6
110°	199.0	226.6	254.1	261.0	436.4	670.3	787.2	945.1	1260.8	1497.5	1507.9



TEST NUMBER: P934662

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	221.1	247.3	273.6	280.1	436.6	645.1	749.4	910.9	1233.9	1476.2	1492.1
115°	254.4	278.6	302.8	308.9	440.6	616.2	704.0	859.6	1170.8	1404.2	1426.2
117.5°	287.2	309.2	331.3	336.8	448.8	598.1	672.7	813.2	1094.1	1304.7	1329.2
120°	306.4	327.1	347.8	353.0	455.4	592.0	660.3	788.6	1045.2	1237.7	1261.5
122.5°	325.2	346.0	367.0	372.2	465.0	588.8	650.7	766.2	997.3	1170.6	1194.1
125°	353.8	372.9	392.0	396.7	477.9	586.2	640.3	738.5	934.8	1082.0	1103.6
127.5°	377.2	396.4	415.6	420.4	490.8	584.6	631.6	715.8	884.4	1010.8	1029.1
130°	389.6	410.4	431.1	436.3	500.3	585.6	628.2	703.3	853.3	965.9	982.7
132.5°	402.5	423.3	444.0	449.2	507.9	586.2	625.3	692.4	826.8	927.5	942.6
135°	421.7	440.6	459.5	464.2	516.2	585.6	620.3	676.5	789.0	873.4	886.4
137.5°	441.3	459.9	478.6	483.3	528.7	589.2	619.5	667.0	762.1	833.4	844.1
140°	457.5	474.7	492.0	496.3	536.4	589.8	616.5	657.6	739.8	801.4	811.3
142.5°	470.0	486.0	501.9	505.9	542.7	591.9	616.5	652.6	724.8	778.9	787.5
145°	489.2	503.1	516.9	520.4	551.1	592.0	612.4	641.9	700.9	745.2	751.6
147.5°	508.3	521.8	535.3	538.7	563.2	596.0	612.4	635.6	682.0	716.9	722.2
150°	520.8	533.0	545.2	548.3	569.7	598.2	612.4	632.0	671.2	700.7	705.1
152.5°	533.7	543.0	552.2	554.6	573.8	599.5	612.4	629.1	662.6	687.8	691.1
155°	552.9	559.7	566.6	568.3	582.9	602.5	612.4	625.7	652.4	672.4	674.5
157.5°	567.0	573.7	580.3	582.0	592.2	605.7	612.4	622.8	643.5	659.0	660.6
160°	576.6	581.8	587.0	588.2	596.3	607.0	612.4	621.3	639.0	652.3	653.2
162.5°	586.2	590.1	593.9	594.9	600.8	608.5	612.4	619.9	634.9	646.1	647.0
165°	596.5	600.1	603.6	604.5	607.1	610.6	612.4	617.8	628.5	636.6	637.5
167.5°	606.1	607.8	609.4	609.9	612.1	615.1	616.5	620.0	627.1	632.4	632.7
170°	612.4	614.1	615.7	616.2	616.2	616.4	616.5	620.0	627.1	632.4	632.4
172.5°	615.7	616.1	616.4	616.5	616.5	616.5	616.5	619.3	624.8	629.0	628.7
175°	620.3	620.3	620.3	620.3	619.0	617.3	616.5	618.3	621.8	624.5	624.5
177.5°	620.3	620.3	620.3	620.3	619.3	618.0	617.4	618.8	621.6	623.7	623.3
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	976.3	973.7	976.3	974.5	975.4	972.8	964.6	961.9	964.6	967.3	967.3
5°	988.1	986.2	988.1	988.1	987.2	985.3	976.3	974.5	976.3	977.2	975.4
7.5°	991.6	989.0	991.6	989.9	989.9	988.1	979.0	977.2	978.1	980.8	978.1
10°	991.6	989.0	991.6	990.8	989.9	988.1	979.0	975.4	975.4	978.1	975.4
12.5°	987.2	985.3	987.2	985.3	985.3	983.5	974.5	970.9	971.9	972.8	969.1
15°	979.9	977.2	979.9	978.1	979.0	976.3	966.4	962.8	962.8	964.6	958.3
17.5°	969.1	965.5	969.1	968.2	967.3	965.5	956.5	952.9	952.0	952.9	948.4
20°	956.5	953.8	956.5	955.6	955.6	952.0	943.0	938.5	938.5	938.5	934.0
22.5°	936.7	934.0	936.7	938.5	938.5	937.6	929.5	923.2	921.4	921.4	916.0
25°	914.2	911.5	914.2	914.2	913.3	914.2	911.5	907.8	905.2	902.5	897.1
27.5°	892.5	890.7	892.5	890.7	892.5	889.9	889.0	888.1	884.5	881.8	874.5
30°	871.0	869.2	871.0	869.2	867.4	865.5	861.0	859.2	862.8	861.0	849.3
32.5°	843.9	842.1	843.9	843.9	842.1	842.1	834.9	832.2	833.1	838.5	827.7
35°	816.0	813.3	816.0	815.1	816.0	813.3	808.8	807.9	804.3	810.6	802.5
37.5°	783.6	780.9	783.6	783.6	783.6	785.4	781.8	779.1	773.6	781.8	775.4
40°	750.3	746.7	750.3	749.4	750.3	752.1	750.3	748.5	743.0	749.4	743.9
42.5°	712.4	711.5	712.4	713.3	713.3	717.0	719.7	716.1	714.2	709.7	713.3
45°	671.9	670.1	671.9	673.7	674.6	676.4	684.5	684.5	681.8	674.6	680.0
47.5°	628.7	624.1	628.7	634.1	634.1	636.7	644.9	651.2	646.7	637.6	640.4
50°	582.8	583.7	582.8	586.3	586.3	596.3	602.5	608.8	613.4	602.5	589.9
52.5°	537.7	536.8	537.7	540.4	544.0	548.5	559.3	565.7	572.8	566.6	546.7
55°	492.7	494.5	492.7	493.6	495.4	498.1	514.3	520.6	534.1	526.0	505.3
57.5°	447.7	445.0	447.7	449.4	450.3	453.0	466.5	478.3	486.3	487.2	462.1
60°	395.4	391.8	395.4	403.5	405.3	407.1	419.7	430.6	437.7	440.4	414.4
62.5°	349.4	343.2	349.4	354.9	358.5	363.0	372.0	388.2	394.5	395.4	358.5
65°	300.8	298.1	300.8	311.7	312.6	317.9	327.9	339.6	353.0	351.2	298.1
67.5°	256.7	256.7	256.7	263.9	269.3	272.0	284.6	290.0	307.1	309.0	248.6
70°	216.1	215.2	216.1	221.6	225.2	231.4	243.2	249.5	263.0	267.5	201.7
72.5°	177.5	176.6	177.5	181.9	185.5	191.0	200.8	208.1	219.8	225.2	156.7
75°	143.2	141.4	143.2	146.8	145.9	153.1	161.2	168.4	179.2	182.8	116.2
77.5°	109.9	109.9	109.9	113.5	113.5	120.7	124.3	133.3	139.6	145.0	85.6
80°	81.9	81.0	81.9	82.9	82.9	86.5	92.8	99.1	104.5	104.5	58.6
82.5°	57.7	55.9	57.7	57.7	57.7	59.4	63.0	64.8	68.5	71.2	36.9
85°	36.0	36.0	36.0	36.9	36.0	37.9	38.8	40.6	40.6	38.8	22.5
87.5°	23.5	22.5	23.5	22.5	22.5	21.6	21.6	21.6	20.7	19.8	12.6
90°	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.1	18.3	11.6
92.5°	63.3	50.8	63.3	75.9	79.1	112.1	156.1	178.2	156.4	112.9	80.3
95°	220.9	182.7	220.9	259.0	268.5	352.6	464.8	520.8	439.9	277.9	156.5
97.5°	529.2	456.7	529.2	601.7	619.9	673.1	743.9	779.4	644.4	374.4	171.9
100°	762.4	676.1	762.4	848.9	870.5	866.7	861.5	858.9	709.1	409.5	184.9
102.5°	992.0	918.0	992.0	1066.0	1084.5	1016.8	926.5	881.3	729.4	425.6	197.8
105°	1284.5	1244.8	1284.5	1324.3	1334.3	1182.4	980.0	878.8	731.7	437.5	216.9
107.5°	1476.2	1485.8	1476.2	1466.6	1464.2	1252.5	970.1	828.9	699.1	439.8	245.2
110°	1549.2	1590.7	1549.2	1507.9	1497.5	1260.8	945.1	787.2	670.3	436.4	261.0



TEST NUMBER: P934662

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1555.8	1619.4	1555.8	1492.1	1476.2	1233.9	910.9	749.4	645.1	436.6	280.1
115°	1514.5	1602.8	1514.5	1426.2	1404.2	1170.8	859.6	704.0	616.2	440.6	308.9
117.5°	1427.0	1524.9	1427.0	1329.2	1304.7	1094.1	813.2	672.7	598.1	448.8	336.8
120°	1356.6	1451.7	1356.6	1261.5	1237.7	1045.2	788.6	660.3	592.0	455.4	353.0
122.5°	1287.9	1381.7	1287.9	1194.1	1170.6	997.3	766.2	650.7	588.8	465.0	372.2
125°	1190.0	1276.4	1190.0	1103.6	1082.0	934.8	738.5	640.3	586.2	477.9	396.7
127.5°	1102.0	1174.8	1102.0	1029.1	1010.8	884.4	715.8	631.6	584.6	490.8	420.4
130°	1050.0	1117.3	1050.0	982.7	965.9	853.3	703.3	628.2	585.6	500.3	436.3
132.5°	1002.9	1063.3	1002.9	942.6	927.5	826.8	692.4	625.3	586.2	507.9	449.2
135°	938.4	990.4	938.4	886.4	873.4	789.0	676.5	620.3	585.6	516.2	464.2
137.5°	886.6	929.2	886.6	844.1	833.4	762.1	667.0	619.5	589.2	528.7	483.3
140°	851.2	890.9	851.2	811.3	801.4	739.8	657.6	616.5	589.8	536.4	496.3
142.5°	821.7	855.9	821.7	787.5	778.9	724.8	652.6	616.5	591.9	542.7	505.9
145°	777.6	803.5	777.6	751.6	745.2	700.9	641.9	612.4	592.0	551.1	520.4
147.5°	743.6	765.1	743.6	722.2	716.9	682.0	635.6	612.4	596.0	563.2	538.7
150°	722.4	739.8	722.4	705.1	700.7	671.2	632.0	612.4	598.2	569.7	548.3
152.5°	704.2	717.3	704.2	691.1	687.8	662.6	629.1	612.4	599.5	573.8	554.6
155°	683.2	691.9	683.2	674.5	672.4	652.4	625.7	612.4	602.5	582.9	568.3
157.5°	666.6	672.7	666.6	660.6	659.0	643.5	622.8	612.4	605.7	592.2	582.0
160°	656.7	660.3	656.7	653.2	652.3	639.0	621.3	612.4	607.0	596.3	588.2
162.5°	650.3	653.6	650.3	647.0	646.1	634.9	619.9	612.4	608.5	600.8	594.9
165°	641.0	644.4	641.0	637.5	636.6	628.5	617.8	612.4	610.6	607.1	604.5
167.5°	634.2	635.7	634.2	632.7	632.4	627.1	620.0	616.5	615.1	612.1	609.9
170°	632.4	632.4	632.4	632.4	632.4	627.1	620.0	616.5	616.4	616.2	616.2
172.5°	627.4	626.1	627.4	628.7	629.0	624.8	619.3	616.5	616.5	616.5	616.5
175°	624.5	624.5	624.5	624.5	624.5	621.8	618.3	616.5	617.3	619.0	620.3
177.5°	621.8	620.3	621.8	623.3	623.7	621.6	618.8	617.4	618.0	619.3	620.3
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



TEST NUMBER: P934662

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	965.5	960.1	960.1	951.1	947.5	944.8	940.3	926.8	923.2	919.6	924.9
5°	973.7	963.7	956.5	940.3	926.8	921.4	904.3	871.9	850.2	834.0	825.0
7.5°	975.4	962.8	949.3	924.1	891.6	877.2	825.0	765.6	749.4	735.0	725.9
10°	973.7	959.2	940.3	902.5	825.9	800.7	748.5	709.7	699.8	697.1	699.8
12.5°	967.3	953.8	927.7	864.6	757.4	740.3	709.7	687.2	685.4	689.9	714.2
15°	956.5	943.9	913.3	814.2	719.7	707.0	685.4	677.3	687.2	718.8	791.7
17.5°	945.7	931.3	893.4	764.7	690.8	681.8	666.5	682.7	738.5	780.9	805.2
20°	931.3	914.2	871.0	728.6	670.1	662.0	654.7	727.7	770.1	785.4	798.9
22.5°	914.2	896.1	840.3	703.4	648.5	642.2	646.7	753.0	770.1	780.9	792.6
25°	891.6	876.3	804.3	683.6	631.4	624.1	641.3	750.3	760.1	762.9	786.3
27.5°	871.0	851.1	766.5	665.6	610.7	607.9	645.8	738.5	745.8	748.5	773.6
30°	845.7	816.0	724.1	646.7	589.0	588.1	646.7	724.1	722.3	729.5	754.7
32.5°	819.6	763.8	676.4	623.2	568.3	567.4	640.4	702.6	700.8	710.6	729.5
35°	795.3	723.2	611.6	596.3	542.2	543.1	625.0	677.3	678.2	687.2	698.9
37.5°	770.1	688.1	540.4	566.6	517.0	517.0	604.3	653.8	652.1	654.7	671.0
40°	740.3	633.2	477.4	527.8	493.6	490.9	579.1	628.7	622.3	621.4	644.0
42.5°	708.8	572.8	430.6	476.5	466.5	463.0	548.5	598.1	586.3	589.0	617.9
45°	674.6	556.6	394.5	402.6	438.6	435.9	515.2	562.9	554.8	562.0	591.7
47.5°	640.4	524.2	382.7	334.1	408.9	408.0	478.3	528.7	524.2	531.4	562.9
50°	593.5	488.1	381.9	286.4	375.6	379.2	434.1	495.4	495.4	501.6	535.0
52.5°	533.2	444.0	346.8	259.4	336.8	347.6	395.4	466.5	468.3	474.7	504.3
55°	478.3	398.1	321.5	238.7	290.9	314.3	357.6	436.8	440.4	446.8	473.7
57.5°	427.8	331.4	316.1	214.3	248.6	271.1	324.3	408.0	409.8	415.2	441.3
60°	373.8	239.6	290.0	188.2	211.7	228.8	293.6	373.8	380.1	383.6	406.2
62.5°	312.6	173.9	263.0	170.2	193.7	197.2	268.4	341.4	349.4	352.1	365.6
65°	222.5	145.9	223.4	154.9	174.8	175.7	241.4	308.0	315.2	319.7	329.7
67.5°	150.4	118.9	170.2	140.5	160.4	161.2	215.2	269.3	279.2	282.8	289.1
70°	104.5	79.2	126.1	125.2	144.1	145.9	187.3	234.2	243.2	245.9	249.5
72.5°	76.5	63.9	104.5	112.5	127.0	128.8	158.6	194.6	203.6	206.3	208.1
75°	58.6	67.5	84.7	98.2	108.1	109.0	129.7	158.6	164.8	166.6	167.5
77.5°	46.8	63.0	62.1	79.2	88.3	86.5	101.8	122.5	127.9	127.9	127.9
80°	35.1	49.5	46.8	56.8	64.8	63.0	73.0	87.4	89.2	91.0	90.1
82.5°	26.1	31.5	31.5	36.0	43.2	41.5	48.6	56.8	56.8	56.8	58.6
85°	16.2	18.0	14.4	18.9	24.4	23.5	27.0	30.6	31.5	31.5	29.7
87.5°	9.9	8.1	4.5	7.2	10.8	10.8	12.6	13.5	12.6	12.6	12.6
90°	10.8	7.4	4.1	7.4	10.8	11.6	18.3	27.1	31.6	28.1	21.1
92.5°	73.2	44.9	16.7	44.9	73.2	80.3	112.9	156.4	178.2	156.1	112.1
95°	143.5	91.8	39.9	91.8	143.5	156.5	277.9	439.9	520.8	464.8	352.6
97.5°	160.4	114.8	69.1	114.8	160.4	171.9	374.4	644.4	779.4	743.9	673.1
100°	174.5	133.0	91.6	133.0	174.5	184.9	409.5	709.1	858.9	861.5	866.7
102.5°	188.1	149.4	110.8	149.4	188.1	197.8	425.6	729.4	881.3	926.5	1016.8
105°	208.8	176.0	143.2	176.0	208.8	216.9	437.5	731.7	878.8	980.0	1182.4
107.5°	237.6	207.1	176.6	207.1	237.6	245.2	439.8	699.1	828.9	970.1	1252.5
110°	254.1	226.6	199.0	226.6	254.1	261.0	436.4	670.3	787.2	945.1	1260.8



TEST NUMBER: P934662

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	273.6	247.3	221.1	247.3	273.6	280.1	436.6	645.1	749.4	910.9	1233.9
115°	302.8	278.6	254.4	278.6	302.8	308.9	440.6	616.2	704.0	859.6	1170.8
117.5°	331.3	309.2	287.2	309.2	331.3	336.8	448.8	598.1	672.7	813.2	1094.1
120°	347.8	327.1	306.4	327.1	347.8	353.0	455.4	592.0	660.3	788.6	1045.2
122.5°	367.0	346.0	325.2	346.0	367.0	372.2	465.0	588.8	650.7	766.2	997.3
125°	392.0	372.9	353.8	372.9	392.0	396.7	477.9	586.2	640.3	738.5	934.8
127.5°	415.6	396.4	377.2	396.4	415.6	420.4	490.8	584.6	631.6	715.8	884.4
130°	431.1	410.4	389.6	410.4	431.1	436.3	500.3	585.6	628.2	703.3	853.3
132.5°	444.0	423.3	402.5	423.3	444.0	449.2	507.9	586.2	625.3	692.4	826.8
135°	459.5	440.6	421.7	440.6	459.5	464.2	516.2	585.6	620.3	676.5	789.0
137.5°	478.6	459.9	441.3	459.9	478.6	483.3	528.7	589.2	619.5	667.0	762.1
140°	492.0	474.7	457.5	474.7	492.0	496.3	536.4	589.8	616.5	657.6	739.8
142.5°	501.9	486.0	470.0	486.0	501.9	505.9	542.7	591.9	616.5	652.6	724.8
145°	516.9	503.1	489.2	503.1	516.9	520.4	551.1	592.0	612.4	641.9	700.9
147.5°	535.3	521.8	508.3	521.8	535.3	538.7	563.2	596.0	612.4	635.6	682.0
150°	545.2	533.0	520.8	533.0	545.2	548.3	569.7	598.2	612.4	632.0	671.2
152.5°	552.2	543.0	533.7	543.0	552.2	554.6	573.8	599.5	612.4	629.1	662.6
155°	566.6	559.7	552.9	559.7	566.6	568.3	582.9	602.5	612.4	625.7	652.4
157.5°	580.3	573.7	567.0	573.7	580.3	582.0	592.2	605.7	612.4	622.8	643.5
160°	587.0	581.8	576.6	581.8	587.0	588.2	596.3	607.0	612.4	621.3	639.0
162.5°	593.9	590.1	586.2	590.1	593.9	594.9	600.8	608.5	612.4	619.9	634.9
165°	603.6	600.1	596.5	600.1	603.6	604.5	607.1	610.6	612.4	617.8	628.5
167.5°	609.4	607.8	606.1	607.8	609.4	609.9	612.1	615.1	616.5	620.0	627.1
170°	615.7	614.1	612.4	614.1	615.7	616.2	616.2	616.4	616.5	620.0	627.1
172.5°	616.4	616.1	615.7	616.1	616.4	616.5	616.5	616.5	616.5	619.3	624.8
175°	620.3	620.3	620.3	620.3	620.3	620.3	619.0	617.3	616.5	618.3	621.8
177.5°	620.3	620.3	620.3	620.3	620.3	620.3	619.3	618.0	617.4	618.8	621.6
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



TEST NUMBER: P934662

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0	952.0
2.5°	918.7	916.0	919.6	909.6	919.6	916.0	918.7	924.9	919.6	923.2	926.8
5°	806.1	801.6	787.2	775.4	787.2	801.6	806.1	825.0	834.0	850.2	871.9
7.5°	720.5	717.0	713.3	706.1	713.3	717.0	720.5	725.9	735.0	749.4	765.6
10°	701.7	702.6	707.9	707.0	707.9	702.6	701.7	699.8	697.1	699.8	709.7
12.5°	750.3	758.3	788.1	786.3	788.1	758.3	750.3	714.2	689.9	685.4	687.2
15°	806.1	808.8	815.1	816.0	815.1	808.8	806.1	791.7	718.8	687.2	677.3
17.5°	811.5	812.4	816.9	816.9	816.9	812.4	811.5	805.2	780.9	738.5	682.7
20°	807.0	808.8	817.8	819.6	817.8	808.8	807.0	798.9	785.4	770.1	727.7
22.5°	805.2	808.8	816.0	815.1	816.0	808.8	805.2	792.6	780.9	770.1	753.0
25°	796.2	796.2	797.1	798.0	797.1	796.2	796.2	786.3	762.9	760.1	750.3
27.5°	777.3	779.1	784.5	783.6	784.5	779.1	777.3	773.6	748.5	745.8	738.5
30°	760.1	758.3	753.9	750.3	753.9	758.3	760.1	754.7	729.5	722.3	724.1
32.5°	731.4	726.8	722.3	719.7	722.3	726.8	731.4	729.5	710.6	700.8	702.6
35°	697.1	698.0	697.1	694.4	697.1	698.0	697.1	698.9	687.2	678.2	677.3
37.5°	672.8	674.6	673.7	670.1	673.7	674.6	672.8	671.0	654.7	652.1	653.8
40°	647.6	648.5	647.6	644.9	647.6	648.5	647.6	644.0	621.4	622.3	628.7
42.5°	623.2	622.3	619.6	617.9	619.6	622.3	623.2	617.9	589.0	586.3	598.1
45°	595.4	596.3	590.8	588.1	590.8	596.3	595.4	591.7	562.0	554.8	562.9
47.5°	567.4	567.4	562.9	560.2	562.9	567.4	567.4	562.9	531.4	524.2	528.7
50°	537.7	536.8	530.5	529.6	530.5	536.8	537.7	535.0	501.6	495.4	495.4
52.5°	503.4	503.4	504.3	506.2	504.3	503.4	503.4	504.3	474.7	468.3	466.5
55°	473.7	474.7	481.0	482.8	481.0	474.7	473.7	473.7	446.8	440.4	436.8
57.5°	443.1	443.1	447.7	447.7	447.7	443.1	443.1	441.3	415.2	409.8	408.0
60°	408.0	409.8	413.4	412.5	413.4	409.8	408.0	406.2	383.6	380.1	373.8
62.5°	371.1	372.9	373.8	372.0	373.8	372.9	371.1	365.6	352.1	349.4	341.4
65°	332.3	334.1	335.0	333.2	335.0	334.1	332.3	329.7	319.7	315.2	308.0
67.5°	292.7	291.8	290.9	294.6	290.9	291.8	292.7	289.1	282.8	279.2	269.3
70°	252.2	252.2	251.3	253.1	251.3	252.2	252.2	249.5	245.9	243.2	234.2
72.5°	209.0	208.1	211.7	209.0	211.7	208.1	209.0	208.1	206.3	203.6	194.6
75°	166.6	168.4	166.6	169.3	166.6	168.4	166.6	167.5	166.6	164.8	158.6
77.5°	127.0	128.8	127.0	127.0	127.0	128.8	127.0	127.9	127.9	127.9	122.5
80°	90.1	89.2	89.2	88.3	89.2	89.2	90.1	90.1	91.0	89.2	87.4
82.5°	57.7	56.8	56.8	58.6	56.8	56.8	57.7	58.6	56.8	56.8	56.8
85°	31.5	32.4	30.6	30.6	30.6	32.4	31.5	29.7	31.5	31.5	30.6
87.5°	11.7	10.8	10.8	10.8	10.8	10.8	11.7	12.6	12.6	12.6	13.5
90°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.1
92.5°	79.1	75.9	63.3	50.8	63.3	75.9	79.1	112.1	156.1	178.2	156.4
95°	268.5	259.0	220.9	182.7	220.9	259.0	268.5	352.6	464.8	520.8	439.9
97.5°	619.9	601.7	529.2	456.7	529.2	601.7	619.9	673.1	743.9	779.4	644.4
100°	870.5	848.9	762.4	676.1	762.4	848.9	870.5	866.7	861.5	858.9	709.1
102.5°	1084.5	1066.0	992.0	918.0	992.0	1066.0	1084.5	1016.8	926.5	881.3	729.4
105°	1334.3	1324.3	1284.5	1244.8	1284.5	1324.3	1334.3	1182.4	980.0	878.8	731.7
107.5°	1464.2	1466.6	1476.2	1485.8	1476.2	1466.6	1464.2	1252.5	970.1	828.9	699.1
110°	1497.5	1507.9	1549.2	1590.7	1549.2	1507.9	1497.5	1260.8	945.1	787.2	670.3



TEST NUMBER: P934662

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1476.2	1492.1	1555.8	1619.4	1555.8	1492.1	1476.2	1233.9	910.9	749.4	645.1
115°	1404.2	1426.2	1514.5	1602.8	1514.5	1426.2	1404.2	1170.8	859.6	704.0	616.2
117.5°	1304.7	1329.2	1427.0	1524.9	1427.0	1329.2	1304.7	1094.1	813.2	672.7	598.1
120°	1237.7	1261.5	1356.6	1451.7	1356.6	1261.5	1237.7	1045.2	788.6	660.3	592.0
122.5°	1170.6	1194.1	1287.9	1381.7	1287.9	1194.1	1170.6	997.3	766.2	650.7	588.8
125°	1082.0	1103.6	1190.0	1276.4	1190.0	1103.6	1082.0	934.8	738.5	640.3	586.2
127.5°	1010.8	1029.1	1102.0	1174.8	1102.0	1029.1	1010.8	884.4	715.8	631.6	584.6
130°	965.9	982.7	1050.0	1117.3	1050.0	982.7	965.9	853.3	703.3	628.2	585.6
132.5°	927.5	942.6	1002.9	1063.3	1002.9	942.6	927.5	826.8	692.4	625.3	586.2
135°	873.4	886.4	938.4	990.4	938.4	886.4	873.4	789.0	676.5	620.3	585.6
137.5°	833.4	844.1	886.6	929.2	886.6	844.1	833.4	762.1	667.0	619.5	589.2
140°	801.4	811.3	851.2	890.9	851.2	811.3	801.4	739.8	657.6	616.5	589.8
142.5°	778.9	787.5	821.7	855.9	821.7	787.5	778.9	724.8	652.6	616.5	591.9
145°	745.2	751.6	777.6	803.5	777.6	751.6	745.2	700.9	641.9	612.4	592.0
147.5°	716.9	722.2	743.6	765.1	743.6	722.2	716.9	682.0	635.6	612.4	596.0
150°	700.7	705.1	722.4	739.8	722.4	705.1	700.7	671.2	632.0	612.4	598.2
152.5°	687.8	691.1	704.2	717.3	704.2	691.1	687.8	662.6	629.1	612.4	599.5
155°	672.4	674.5	683.2	691.9	683.2	674.5	672.4	652.4	625.7	612.4	602.5
157.5°	659.0	660.6	666.6	672.7	666.6	660.6	659.0	643.5	622.8	612.4	605.7
160°	652.3	653.2	656.7	660.3	656.7	653.2	652.3	639.0	621.3	612.4	607.0
162.5°	646.1	647.0	650.3	653.6	650.3	647.0	646.1	634.9	619.9	612.4	608.5
165°	636.6	637.5	641.0	644.4	641.0	637.5	636.6	628.5	617.8	612.4	610.6
167.5°	632.4	632.7	634.2	635.7	634.2	632.7	632.4	627.1	620.0	616.5	615.1
170°	632.4	632.4	632.4	632.4	632.4	632.4	632.4	627.1	620.0	616.5	616.4
172.5°	629.0	628.7	627.4	626.1	627.4	628.7	629.0	624.8	619.3	616.5	616.5
175°	624.5	624.5	624.5	624.5	624.5	624.5	624.5	621.8	618.3	616.5	617.3
177.5°	623.7	623.3	621.8	620.3	621.8	623.3	623.7	621.6	618.8	617.4	618.0
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



TEST NUMBER: P934662

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	952.0	952.0	952.0	952.0	952.0
2.5°	940.3	944.8	947.5	951.1	960.1
5°	904.3	921.4	926.8	940.3	956.5
7.5°	825.0	877.2	891.6	924.1	949.3
10°	748.5	800.7	825.9	902.5	940.3
12.5°	709.7	740.3	757.4	864.6	927.7
15°	685.4	707.0	719.7	814.2	913.3
17.5°	666.5	681.8	690.8	764.7	893.4
20°	654.7	662.0	670.1	728.6	871.0
22.5°	646.7	642.2	648.5	703.4	840.3
25°	641.3	624.1	631.4	683.6	804.3
27.5°	645.8	607.9	610.7	665.6	766.5
30°	646.7	588.1	589.0	646.7	724.1
32.5°	640.4	567.4	568.3	623.2	676.4
35°	625.0	543.1	542.2	596.3	611.6
37.5°	604.3	517.0	517.0	566.6	540.4
40°	579.1	490.9	493.6	527.8	477.4
42.5°	548.5	463.0	466.5	476.5	430.6
45°	515.2	435.9	438.6	402.6	394.5
47.5°	478.3	408.0	408.9	334.1	382.7
50°	434.1	379.2	375.6	286.4	381.9
52.5°	395.4	347.6	336.8	259.4	346.8
55°	357.6	314.3	290.9	238.7	321.5
57.5°	324.3	271.1	248.6	214.3	316.1
60°	293.6	228.8	211.7	188.2	290.0
62.5°	268.4	197.2	193.7	170.2	263.0
65°	241.4	175.7	174.8	154.9	223.4
67.5°	215.2	161.2	160.4	140.5	170.2
70°	187.3	145.9	144.1	125.2	126.1
72.5°	158.6	128.8	127.0	112.5	104.5
75°	129.7	109.0	108.1	98.2	84.7
77.5°	101.8	86.5	88.3	79.2	62.1
80°	73.0	63.0	64.8	56.8	46.8
82.5°	48.6	41.5	43.2	36.0	31.5
85°	27.0	23.5	24.4	18.9	14.4
87.5°	12.6	10.8	10.8	7.2	4.5
90°	18.3	11.6	10.8	7.4	4.1
92.5°	112.9	80.3	73.2	44.9	16.7
95°	277.9	156.5	143.5	91.8	39.9
97.5°	374.4	171.9	160.4	114.8	69.1
100°	409.5	184.9	174.5	133.0	91.6
102.5°	425.6	197.8	188.1	149.4	110.8
105°	437.5	216.9	208.8	176.0	143.2
107.5°	439.8	245.2	237.6	207.1	176.6
110°	436.4	261.0	254.1	226.6	199.0



TEST NUMBER: P934662

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	436.6	280.1	273.6	247.3	221.1
115°	440.6	308.9	302.8	278.6	254.4
117.5°	448.8	336.8	331.3	309.2	287.2
120°	455.4	353.0	347.8	327.1	306.4
122.5°	465.0	372.2	367.0	346.0	325.2
125°	477.9	396.7	392.0	372.9	353.8
127.5°	490.8	420.4	415.6	396.4	377.2
130°	500.3	436.3	431.1	410.4	389.6
132.5°	507.9	449.2	444.0	423.3	402.5
135°	516.2	464.2	459.5	440.6	421.7
137.5°	528.7	483.3	478.6	459.9	441.3
140°	536.4	496.3	492.0	474.7	457.5
142.5°	542.7	505.9	501.9	486.0	470.0
145°	551.1	520.4	516.9	503.1	489.2
147.5°	563.2	538.7	535.3	521.8	508.3
150°	569.7	548.3	545.2	533.0	520.8
152.5°	573.8	554.6	552.2	543.0	533.7
155°	582.9	568.3	566.6	559.7	552.9
157.5°	592.2	582.0	580.3	573.7	567.0
160°	596.3	588.2	587.0	581.8	576.6
162.5°	600.8	594.9	593.9	590.1	586.2
165°	607.1	604.5	603.6	600.1	596.5
167.5°	612.1	609.9	609.4	607.8	606.1
170°	616.2	616.2	615.7	614.1	612.4
172.5°	616.5	616.5	616.4	616.1	615.7
175°	619.0	620.3	620.3	620.3	620.3
177.5°	619.3	620.3	620.3	620.3	620.3
180°	620.3	620.3	620.3	620.3	620.3



TEST NUMBER: P934662
 CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-3500K

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	9.75	10.51	10.80	11.57	13.00	12.57	13.33	13.62	14.39	15.82
	3H	10.22	10.90	11.28	11.97	13.42	13.91	14.59	14.97	15.66	17.11
	4H	10.40	11.05	11.48	12.12	13.58	14.35	14.99	15.42	16.06	17.52
	6H	10.52	11.11	11.60	12.18	13.65	14.62	15.22	15.71	16.29	17.76
	8H	10.51	11.08	11.60	12.17	13.63	14.69	15.26	15.78	16.35	17.81
	12H	10.48	11.02	11.58	12.10	13.59	14.73	15.27	15.82	16.35	17.84
4H	2H	10.77	11.41	11.85	12.48	13.94	12.97	13.62	14.05	14.68	16.14
	3H	11.78	12.32	12.87	13.42	14.89	14.46	15.00	15.55	16.10	17.57
	4H	12.06	12.55	13.15	13.64	15.13	14.99	15.48	16.08	16.57	18.06
	6H	12.18	12.60	13.28	13.71	15.19	15.34	15.77	16.45	16.88	18.36
	8H	12.18	12.58	13.28	13.68	15.18	15.45	15.84	16.55	16.95	18.45
	12H	12.14	12.50	13.26	13.61	15.12	15.50	15.86	16.62	16.97	18.48
8H	4H	12.50	12.90	13.60	14.00	15.50	15.10	15.50	16.20	16.60	18.10
	6H	12.76	13.09	13.88	14.23	15.73	15.53	15.86	16.66	17.00	18.50
	8H	12.80	13.09	13.93	14.21	15.73	15.68	15.97	16.81	17.09	18.61
	12H	12.78	13.03	13.91	14.15	15.71	15.78	16.03	16.91	17.15	18.70
12H	4H	12.50	12.86	13.62	13.97	15.48	15.06	15.42	16.18	16.54	18.04
	6H	12.82	13.10	13.95	14.23	15.75	15.53	15.82	16.66	16.94	18.46
	8H	12.88	13.13	14.01	14.25	15.81	15.69	15.94	16.82	17.06	18.61