

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: P935062

Luminaire Tested: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935062
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-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: -

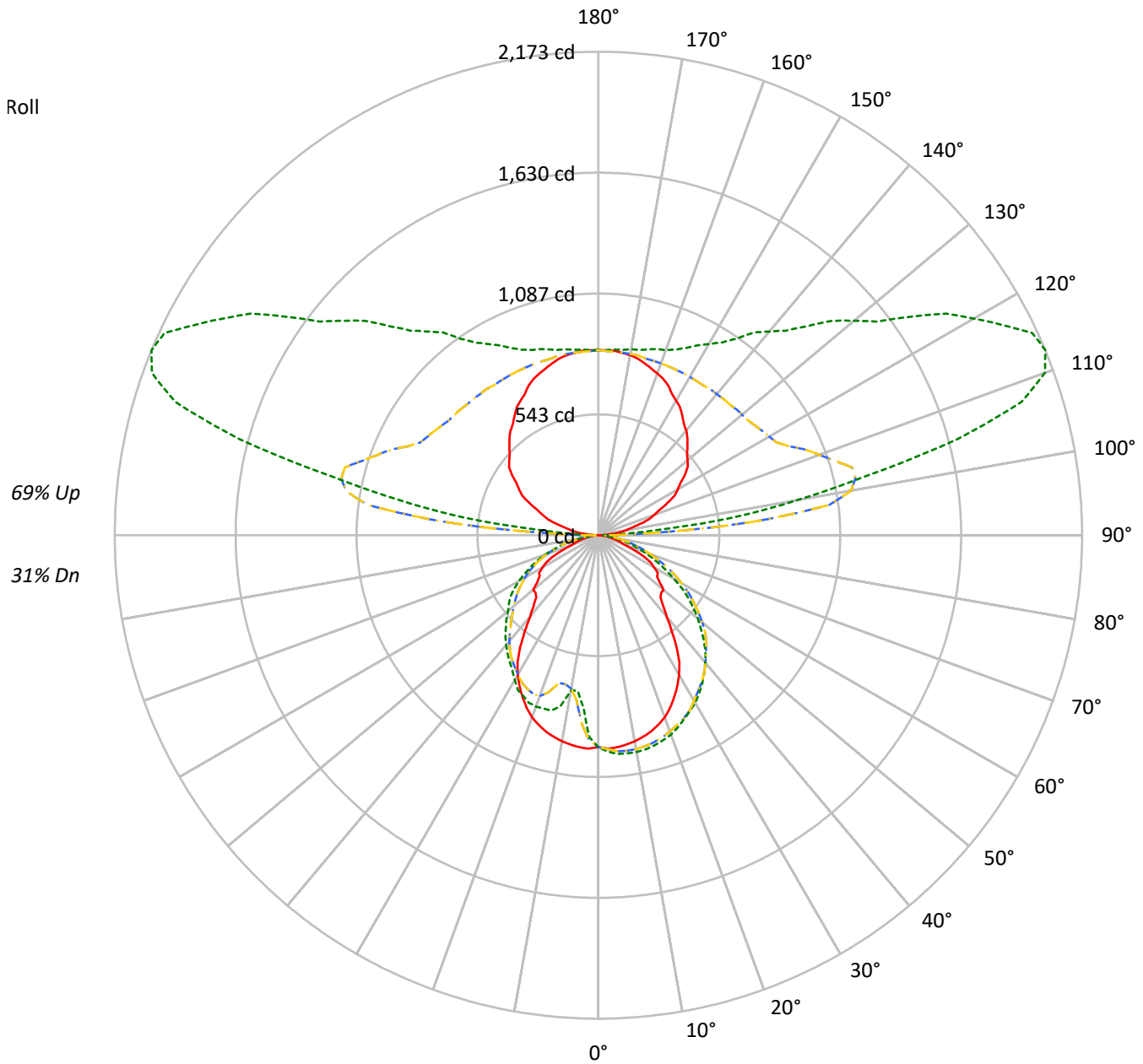
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7867.1 lumens
Efficiency: N/A
Efficacy: 127.3 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): 61.8
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: P935062
CATALOG NUMBER: SQ4-FA-100U-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			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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

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	1.1
10°-20°	244.0	3.1
20°-30°	377.2	4.8
30°-40°	450.3	5.7
40°-50°	452.9	5.8
50°-60°	394.1	5.0
60°-70°	279.4	3.6
70°-80°	147.8	1.9
80°-90°	40.0	0.5
90°-100°	405.7	5.2
100°-110°	1066.6	13.6
110°-120°	1106.0	14.1
120°-130°	887.1	11.3
130°-140°	696.1	8.8
140°-150°	534.3	6.8
150°-160°	384.8	4.9
160°-170°	235.4	3.0
170°-180°	79.5	1.0
0°-30°	707.1	9.0
0°-40°	1157.4	14.7
0°-60°	2004.3	25.5
0°-90°	2471.6	31.4
90°-120°	2578.3	32.8
90°-150°	4695.8	59.7
90°-180°	5396.0	68.6
0°-180°	7867.1	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°	6	21	6	21	6	5
95°	54	245	54	245	54	60
105°	192	1670	192	1670	192	204
115°	341	2151	341	2151	341	337
125°	475	1713	475	1713	475	422
135°	566	1329	566	1329	566	438
145°	656	1078	656	1078	656	411
155°	742	928	742	928	742	341
165°	800	865	800	865	800	226
175°	832	838	832	838	832	79
180°	832	832	832	832	832	



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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°	5.6	10.0	14.5	15.7	24.6	36.5	42.4	37.7	28.3	21.2	21.2
92.5°	22.4	60.3	98.3	107.8	151.6	209.9	239.0	209.5	150.4	106.1	101.9
95°	53.6	123.1	192.7	210.0	373.0	590.2	698.8	623.6	473.1	360.3	347.5
97.5°	92.8	154.1	215.4	230.7	502.4	864.6	1045.7	998.2	903.1	831.7	807.4
100°	122.9	178.5	234.1	248.0	549.5	951.4	1152.4	1155.8	1162.8	1168.0	1139.0
102.5°	148.6	200.5	252.4	265.4	571.1	978.8	1182.5	1243.1	1364.3	1455.2	1430.4
105°	192.1	236.1	280.1	291.1	587.1	981.9	1179.2	1315.0	1586.6	1790.3	1776.9
107.5°	236.8	277.8	318.8	329.0	590.1	938.1	1112.2	1301.6	1680.4	1964.6	1967.8
110°	267.0	304.0	341.0	350.2	585.6	899.4	1056.3	1268.0	1691.6	2009.3	2023.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	296.6	331.9	367.2	375.9	585.8	865.6	1005.4	1222.2	1655.7	1980.8	2002.1
115°	341.3	373.8	406.3	414.4	591.2	826.7	944.6	1153.3	1571.0	1884.2	1913.8
117.5°	385.4	415.0	444.5	451.9	602.1	802.5	902.7	1091.1	1468.0	1750.6	1783.5
120°	411.1	439.0	466.7	473.7	611.1	794.3	885.9	1058.1	1402.4	1660.7	1692.6
122.5°	436.3	464.3	492.4	499.4	623.9	790.0	873.1	1028.2	1338.2	1570.7	1602.3
125°	474.8	500.4	526.0	532.4	641.3	786.5	859.1	990.8	1254.2	1451.8	1480.8
127.5°	506.1	531.9	557.8	564.2	658.6	784.5	847.4	960.5	1186.6	1356.3	1380.8
130°	522.9	550.7	578.5	585.4	671.3	785.7	842.9	943.6	1144.9	1296.0	1318.5
132.5°	540.1	568.0	595.7	602.7	681.5	786.5	839.0	929.2	1109.4	1244.6	1264.8
135°	565.8	591.2	616.5	622.9	692.7	785.7	832.3	907.8	1058.7	1172.0	1189.4
137.5°	592.1	617.1	642.3	648.6	709.4	790.7	831.2	895.0	1022.6	1118.3	1132.6
140°	613.9	637.0	660.1	665.8	719.7	791.4	827.3	882.4	992.6	1075.3	1088.6
142.5°	630.7	652.1	673.4	678.7	728.2	794.2	827.3	875.7	972.5	1045.1	1056.6
145°	656.4	675.0	693.6	698.3	739.4	794.3	821.7	861.3	940.5	999.9	1008.6
147.5°	682.0	700.1	718.2	722.8	755.7	799.7	821.7	852.9	915.2	961.9	969.1
150°	698.8	715.2	731.6	735.7	764.3	802.6	821.7	848.0	900.6	940.1	945.9
152.5°	716.2	728.6	741.0	744.1	770.0	804.4	821.7	844.2	889.1	922.8	927.2
155°	741.9	751.0	760.1	762.4	782.2	808.6	821.7	839.6	875.3	902.1	905.1
157.5°	760.8	769.8	778.7	780.9	794.5	812.7	821.7	835.6	863.4	884.3	886.4
160°	773.6	780.6	787.6	789.3	800.1	814.6	821.7	833.6	857.4	875.3	876.5
162.5°	786.5	791.7	796.9	798.3	806.0	816.5	821.7	831.7	851.9	866.9	868.0
165°	800.5	805.2	809.9	811.1	814.6	819.4	821.7	828.9	843.3	854.1	855.3
167.5°	813.3	815.5	817.8	818.3	821.3	825.3	827.3	832.0	841.4	848.5	849.0
170°	821.7	824.0	826.2	826.7	826.9	827.2	827.3	832.0	841.4	848.5	848.5
172.5°	826.2	826.6	827.2	827.3	827.3	827.3	827.3	831.0	838.5	844.0	843.6
175°	832.3	832.3	832.3	832.3	830.6	828.3	827.3	829.6	834.3	837.9	837.9
177.5°	832.3	832.3	832.3	832.3	831.0	829.3	828.4	830.3	834.0	836.8	836.2
180°	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3



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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°	21.2	21.2	21.2	21.2	21.2	28.3	37.7	42.4	36.5	24.6	15.7
92.5°	85.0	68.1	85.0	101.9	106.1	150.4	209.5	239.0	209.9	151.6	107.8
95°	296.3	245.2	296.3	347.5	360.3	473.1	623.6	698.8	590.2	373.0	210.0
97.5°	710.1	612.8	710.1	807.4	831.7	903.1	998.2	1045.7	864.6	502.4	230.7
100°	1023.1	907.1	1023.1	1139.0	1168.0	1162.8	1155.8	1152.4	951.4	549.5	248.0
102.5°	1331.0	1231.7	1331.0	1430.4	1455.2	1364.3	1243.1	1182.5	978.8	571.1	265.4
105°	1723.6	1670.2	1723.6	1776.9	1790.3	1586.6	1315.0	1179.2	981.9	587.1	291.1
107.5°	1980.8	1993.7	1980.8	1967.8	1964.6	1680.4	1301.6	1112.2	938.1	590.1	329.0
110°	2078.8	2134.4	2078.8	2023.1	2009.3	1691.6	1268.0	1056.3	899.4	585.6	350.2



TEST NUMBER: P935062

CATALOG NUMBER: SQ4-FA-100U-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°	2087.5	2172.9	2087.5	2002.1	1980.8	1655.7	1222.2	1005.4	865.6	585.8	375.9
115°	2032.2	2150.6	2032.2	1913.8	1884.2	1571.0	1153.3	944.6	826.7	591.2	414.4
117.5°	1914.8	2046.1	1914.8	1783.5	1750.6	1468.0	1091.1	902.7	802.5	602.1	451.9
120°	1820.3	1947.8	1820.3	1692.6	1660.7	1402.4	1058.1	885.9	794.3	611.1	473.7
122.5°	1728.1	1854.0	1728.1	1602.3	1570.7	1338.2	1028.2	873.1	790.0	623.9	499.4
125°	1596.7	1712.6	1596.7	1480.8	1451.8	1254.2	990.8	859.1	786.5	641.3	532.4
127.5°	1478.6	1576.4	1478.6	1380.8	1356.3	1186.6	960.5	847.4	784.5	658.6	564.2
130°	1409.0	1499.3	1409.0	1318.5	1296.0	1144.9	943.6	842.9	785.7	671.3	585.4
132.5°	1345.7	1426.7	1345.7	1264.8	1244.6	1109.4	929.2	839.0	786.5	681.5	602.7
135°	1259.2	1328.9	1259.2	1189.4	1172.0	1058.7	907.8	832.3	785.7	692.7	622.9
137.5°	1189.7	1246.8	1189.7	1132.6	1118.3	1022.6	895.0	831.2	790.7	709.4	648.6
140°	1142.1	1195.4	1142.1	1088.6	1075.3	992.6	882.4	827.3	791.4	719.7	665.8
142.5°	1102.6	1148.5	1102.6	1056.6	1045.1	972.5	875.7	827.3	794.2	728.2	678.7
145°	1043.4	1078.1	1043.4	1008.6	999.9	940.5	861.3	821.7	794.3	739.4	698.3
147.5°	997.9	1026.7	997.9	969.1	961.9	915.2	852.9	821.7	799.7	755.7	722.8
150°	969.3	992.6	969.3	945.9	940.1	900.6	848.0	821.7	802.6	764.3	735.7
152.5°	944.8	962.5	944.8	927.2	922.8	889.1	844.2	821.7	804.4	770.0	744.1
155°	916.7	928.3	916.7	905.1	902.1	875.3	839.6	821.7	808.6	782.2	762.4
157.5°	894.5	902.7	894.5	886.4	884.3	863.4	835.6	821.7	812.7	794.5	780.9
160°	881.3	885.9	881.3	876.5	875.3	857.4	833.6	821.7	814.6	800.1	789.3
162.5°	872.5	877.0	872.5	868.0	866.9	851.9	831.7	821.7	816.5	806.0	798.3
165°	860.0	864.7	860.0	855.3	854.1	843.3	828.9	821.7	819.4	814.6	811.1
167.5°	851.0	853.0	851.0	849.0	848.5	841.4	832.0	827.3	825.3	821.3	818.3
170°	848.5	848.5	848.5	848.5	848.5	841.4	832.0	827.3	827.2	826.9	826.7
172.5°	841.9	840.2	841.9	843.6	844.0	838.5	831.0	827.3	827.3	827.3	827.3
175°	837.9	837.9	837.9	837.9	837.9	834.3	829.6	827.3	828.3	830.6	832.3
177.5°	834.3	832.3	834.3	836.2	836.8	834.0	830.3	828.4	829.3	831.0	832.3
180°	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3



TEST NUMBER: P935062

CATALOG NUMBER: SQ4-FA-100U-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°	14.5	10.0	5.6	10.0	14.5	15.7	24.6	36.5	42.4	37.7	28.3
92.5°	98.3	60.3	22.4	60.3	98.3	107.8	151.6	209.9	239.0	209.5	150.4
95°	192.7	123.1	53.6	123.1	192.7	210.0	373.0	590.2	698.8	623.6	473.1
97.5°	215.4	154.1	92.8	154.1	215.4	230.7	502.4	864.6	1045.7	998.2	903.1
100°	234.1	178.5	122.9	178.5	234.1	248.0	549.5	951.4	1152.4	1155.8	1162.8
102.5°	252.4	200.5	148.6	200.5	252.4	265.4	571.1	978.8	1182.5	1243.1	1364.3
105°	280.1	236.1	192.1	236.1	280.1	291.1	587.1	981.9	1179.2	1315.0	1586.6
107.5°	318.8	277.8	236.8	277.8	318.8	329.0	590.1	938.1	1112.2	1301.6	1680.4
110°	341.0	304.0	267.0	304.0	341.0	350.2	585.6	899.4	1056.3	1268.0	1691.6



TEST NUMBER: P935062

CATALOG NUMBER: SQ4-FA-100U-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°	367.2	331.9	296.6	331.9	367.2	375.9	585.8	865.6	1005.4	1222.2	1655.7
115°	406.3	373.8	341.3	373.8	406.3	414.4	591.2	826.7	944.6	1153.3	1571.0
117.5°	444.5	415.0	385.4	415.0	444.5	451.9	602.1	802.5	902.7	1091.1	1468.0
120°	466.7	439.0	411.1	439.0	466.7	473.7	611.1	794.3	885.9	1058.1	1402.4
122.5°	492.4	464.3	436.3	464.3	492.4	499.4	623.9	790.0	873.1	1028.2	1338.2
125°	526.0	500.4	474.8	500.4	526.0	532.4	641.3	786.5	859.1	990.8	1254.2
127.5°	557.8	531.9	506.1	531.9	557.8	564.2	658.6	784.5	847.4	960.5	1186.6
130°	578.5	550.7	522.9	550.7	578.5	585.4	671.3	785.7	842.9	943.6	1144.9
132.5°	595.7	568.0	540.1	568.0	595.7	602.7	681.5	786.5	839.0	929.2	1109.4
135°	616.5	591.2	565.8	591.2	616.5	622.9	692.7	785.7	832.3	907.8	1058.7
137.5°	642.3	617.1	592.1	617.1	642.3	648.6	709.4	790.7	831.2	895.0	1022.6
140°	660.1	637.0	613.9	637.0	660.1	665.8	719.7	791.4	827.3	882.4	992.6
142.5°	673.4	652.1	630.7	652.1	673.4	678.7	728.2	794.2	827.3	875.7	972.5
145°	693.6	675.0	656.4	675.0	693.6	698.3	739.4	794.3	821.7	861.3	940.5
147.5°	718.2	700.1	682.0	700.1	718.2	722.8	755.7	799.7	821.7	852.9	915.2
150°	731.6	715.2	698.8	715.2	731.6	735.7	764.3	802.6	821.7	848.0	900.6
152.5°	741.0	728.6	716.2	728.6	741.0	744.1	770.0	804.4	821.7	844.2	889.1
155°	760.1	751.0	741.9	751.0	760.1	762.4	782.2	808.6	821.7	839.6	875.3
157.5°	778.7	769.8	760.8	769.8	778.7	780.9	794.5	812.7	821.7	835.6	863.4
160°	787.6	780.6	773.6	780.6	787.6	789.3	800.1	814.6	821.7	833.6	857.4
162.5°	796.9	791.7	786.5	791.7	796.9	798.3	806.0	816.5	821.7	831.7	851.9
165°	809.9	805.2	800.5	805.2	809.9	811.1	814.6	819.4	821.7	828.9	843.3
167.5°	817.8	815.5	813.3	815.5	817.8	818.3	821.3	825.3	827.3	832.0	841.4
170°	826.2	824.0	821.7	824.0	826.2	826.7	826.9	827.2	827.3	832.0	841.4
172.5°	827.2	826.6	826.2	826.6	827.2	827.3	827.3	827.3	827.3	831.0	838.5
175°	832.3	832.3	832.3	832.3	832.3	832.3	830.6	828.3	827.3	829.6	834.3
177.5°	832.3	832.3	832.3	832.3	832.3	832.3	831.0	829.3	828.4	830.3	834.0
180°	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3



TEST NUMBER: P935062

CATALOG NUMBER: SQ4-FA-100U-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°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	28.3	37.7	42.4	36.5
92.5°	106.1	101.9	85.0	68.1	85.0	101.9	106.1	150.4	209.5	239.0	209.9
95°	360.3	347.5	296.3	245.2	296.3	347.5	360.3	473.1	623.6	698.8	590.2
97.5°	831.7	807.4	710.1	612.8	710.1	807.4	831.7	903.1	998.2	1045.7	864.6
100°	1168.0	1139.0	1023.1	907.1	1023.1	1139.0	1168.0	1162.8	1155.8	1152.4	951.4
102.5°	1455.2	1430.4	1331.0	1231.7	1331.0	1430.4	1455.2	1364.3	1243.1	1182.5	978.8
105°	1790.3	1776.9	1723.6	1670.2	1723.6	1776.9	1790.3	1586.6	1315.0	1179.2	981.9
107.5°	1964.6	1967.8	1980.8	1993.7	1980.8	1967.8	1964.6	1680.4	1301.6	1112.2	938.1
110°	2009.3	2023.1	2078.8	2134.4	2078.8	2023.1	2009.3	1691.6	1268.0	1056.3	899.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1980.8	2002.1	2087.5	2172.9	2087.5	2002.1	1980.8	1655.7	1222.2	1005.4	865.6
115°	1884.2	1913.8	2032.2	2150.6	2032.2	1913.8	1884.2	1571.0	1153.3	944.6	826.7
117.5°	1750.6	1783.5	1914.8	2046.1	1914.8	1783.5	1750.6	1468.0	1091.1	902.7	802.5
120°	1660.7	1692.6	1820.3	1947.8	1820.3	1692.6	1660.7	1402.4	1058.1	885.9	794.3
122.5°	1570.7	1602.3	1728.1	1854.0	1728.1	1602.3	1570.7	1338.2	1028.2	873.1	790.0
125°	1451.8	1480.8	1596.7	1712.6	1596.7	1480.8	1451.8	1254.2	990.8	859.1	786.5
127.5°	1356.3	1380.8	1478.6	1576.4	1478.6	1380.8	1356.3	1186.6	960.5	847.4	784.5
130°	1296.0	1318.5	1409.0	1499.3	1409.0	1318.5	1296.0	1144.9	943.6	842.9	785.7
132.5°	1244.6	1264.8	1345.7	1426.7	1345.7	1264.8	1244.6	1109.4	929.2	839.0	786.5
135°	1172.0	1189.4	1259.2	1328.9	1259.2	1189.4	1172.0	1058.7	907.8	832.3	785.7
137.5°	1118.3	1132.6	1189.7	1246.8	1189.7	1132.6	1118.3	1022.6	895.0	831.2	790.7
140°	1075.3	1088.6	1142.1	1195.4	1142.1	1088.6	1075.3	992.6	882.4	827.3	791.4
142.5°	1045.1	1056.6	1102.6	1148.5	1102.6	1056.6	1045.1	972.5	875.7	827.3	794.2
145°	999.9	1008.6	1043.4	1078.1	1043.4	1008.6	999.9	940.5	861.3	821.7	794.3
147.5°	961.9	969.1	997.9	1026.7	997.9	969.1	961.9	915.2	852.9	821.7	799.7
150°	940.1	945.9	969.3	992.6	969.3	945.9	940.1	900.6	848.0	821.7	802.6
152.5°	922.8	927.2	944.8	962.5	944.8	927.2	922.8	889.1	844.2	821.7	804.4
155°	902.1	905.1	916.7	928.3	916.7	905.1	902.1	875.3	839.6	821.7	808.6
157.5°	884.3	886.4	894.5	902.7	894.5	886.4	884.3	863.4	835.6	821.7	812.7
160°	875.3	876.5	881.3	885.9	881.3	876.5	875.3	857.4	833.6	821.7	814.6
162.5°	866.9	868.0	872.5	877.0	872.5	868.0	866.9	851.9	831.7	821.7	816.5
165°	854.1	855.3	860.0	864.7	860.0	855.3	854.1	843.3	828.9	821.7	819.4
167.5°	848.5	849.0	851.0	853.0	851.0	849.0	848.5	841.4	832.0	827.3	825.3
170°	848.5	848.5	848.5	848.5	848.5	848.5	848.5	841.4	832.0	827.3	827.2
172.5°	844.0	843.6	841.9	840.2	841.9	843.6	844.0	838.5	831.0	827.3	827.3
175°	837.9	837.9	837.9	837.9	837.9	837.9	837.9	834.3	829.6	827.3	828.3
177.5°	836.8	836.2	834.3	832.3	834.3	836.2	836.8	834.0	830.3	828.4	829.3
180°	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3



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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°	24.6	15.7	14.5	10.0	5.6
92.5°	151.6	107.8	98.3	60.3	22.4
95°	373.0	210.0	192.7	123.1	53.6
97.5°	502.4	230.7	215.4	154.1	92.8
100°	549.5	248.0	234.1	178.5	122.9
102.5°	571.1	265.4	252.4	200.5	148.6
105°	587.1	291.1	280.1	236.1	192.1
107.5°	590.1	329.0	318.8	277.8	236.8
110°	585.6	350.2	341.0	304.0	267.0



TEST NUMBER: P935062

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	585.8	375.9	367.2	331.9	296.6
115°	591.2	414.4	406.3	373.8	341.3
117.5°	602.1	451.9	444.5	415.0	385.4
120°	611.1	473.7	466.7	439.0	411.1
122.5°	623.9	499.4	492.4	464.3	436.3
125°	641.3	532.4	526.0	500.4	474.8
127.5°	658.6	564.2	557.8	531.9	506.1
130°	671.3	585.4	578.5	550.7	522.9
132.5°	681.5	602.7	595.7	568.0	540.1
135°	692.7	622.9	616.5	591.2	565.8
137.5°	709.4	648.6	642.3	617.1	592.1
140°	719.7	665.8	660.1	637.0	613.9
142.5°	728.2	678.7	673.4	652.1	630.7
145°	739.4	698.3	693.6	675.0	656.4
147.5°	755.7	722.8	718.2	700.1	682.0
150°	764.3	735.7	731.6	715.2	698.8
152.5°	770.0	744.1	741.0	728.6	716.2
155°	782.2	762.4	760.1	751.0	741.9
157.5°	794.5	780.9	778.7	769.8	760.8
160°	800.1	789.3	787.6	780.6	773.6
162.5°	806.0	798.3	796.9	791.7	786.5
165°	814.6	811.1	809.9	805.2	800.5
167.5°	821.3	818.3	817.8	815.5	813.3
170°	826.9	826.7	826.2	824.0	821.7
172.5°	827.3	827.3	827.2	826.6	826.2
175°	830.6	832.3	832.3	832.3	832.3
177.5°	831.0	832.3	832.3	832.3	832.3
180°	832.3	832.3	832.3	832.3	832.3



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	8.94	9.66	10.04	10.75	12.27	11.76	12.48	12.87	13.58	15.09
	3H	9.40	10.05	10.52	11.15	12.68	13.10	13.74	14.21	14.84	16.37
	4H	9.59	10.20	10.71	11.31	12.84	13.53	14.14	14.65	15.25	16.78
	6H	9.70	10.26	10.83	11.37	12.92	13.81	14.37	14.94	15.48	17.03
	8H	9.70	10.23	10.83	11.36	12.90	13.88	14.41	15.01	15.54	17.08
	12H	9.66	10.17	10.80	11.29	12.85	13.91	14.42	15.05	15.54	17.10
4H	2H	9.95	10.56	11.08	11.67	13.20	12.15	12.76	13.28	13.87	15.41
	3H	10.97	11.47	12.10	12.61	14.16	13.64	14.15	14.78	15.29	16.84
	4H	11.24	11.70	12.37	12.82	14.39	14.17	14.63	15.30	15.75	17.32
	6H	11.35	11.75	12.50	12.90	14.46	14.52	14.92	15.67	16.07	17.63
	8H	11.35	11.73	12.50	12.86	14.44	14.62	15.00	15.77	16.13	17.71
	12H	11.31	11.65	12.47	12.80	14.38	14.67	15.01	15.83	16.16	17.74
8H	4H	11.68	12.05	12.82	13.19	14.76	14.28	14.65	15.42	15.79	17.37
	6H	11.93	12.24	13.10	13.42	14.99	14.71	15.01	15.87	16.20	17.77
	8H	11.97	12.24	13.14	13.40	14.99	14.86	15.13	16.03	16.28	17.88
	12H	11.95	12.19	13.12	13.34	14.97	14.95	15.18	16.12	16.34	17.97
12H	4H	11.68	12.01	12.84	13.16	14.74	14.24	14.57	15.40	15.72	17.31
	6H	11.99	12.26	13.16	13.42	15.01	14.70	14.97	15.87	16.13	17.72
	8H	12.05	12.29	13.22	13.44	15.07	14.86	15.09	16.03	16.25	17.88