

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: P934262

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934262
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-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: -

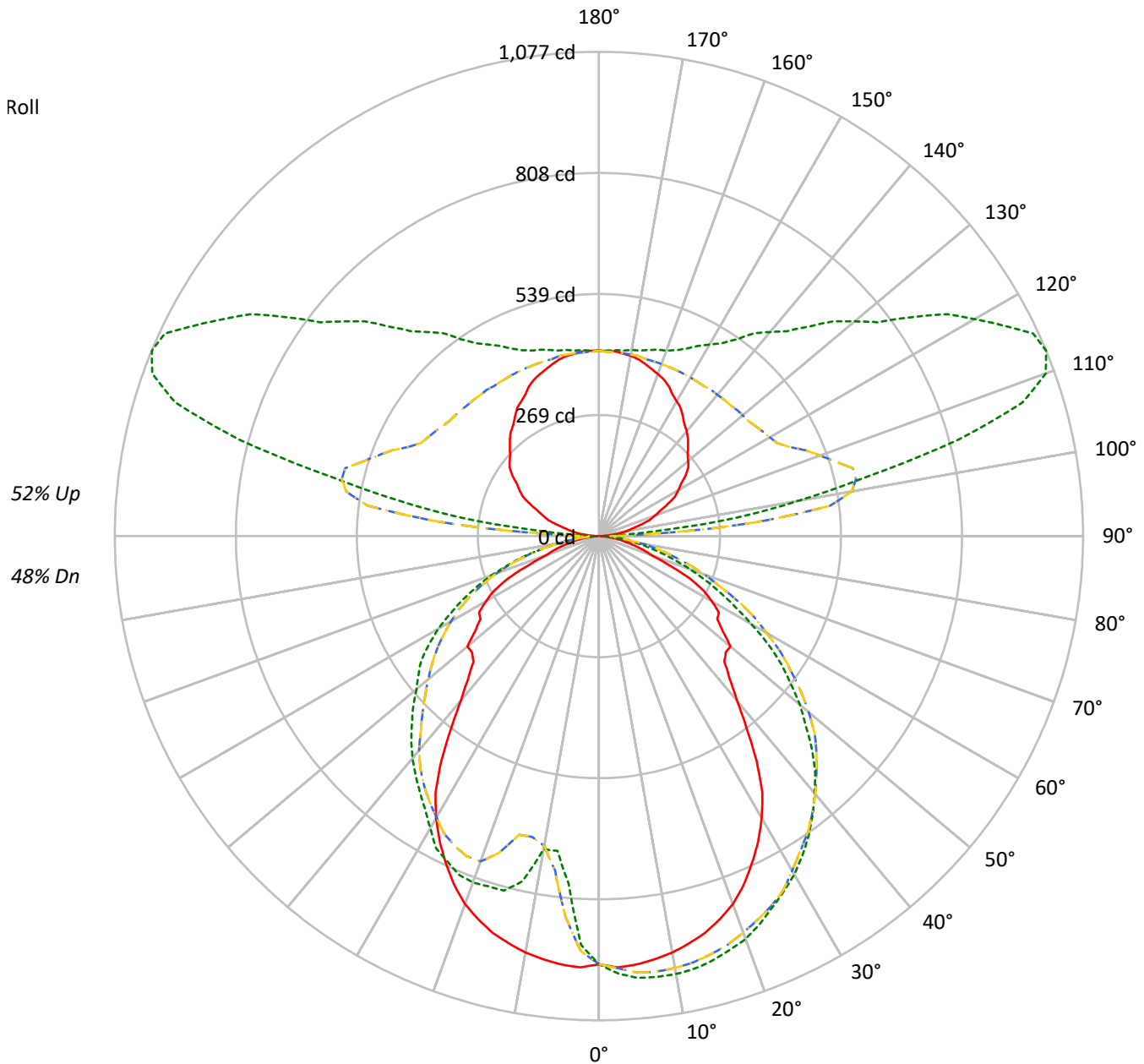
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5143.6 lumens
Efficiency: N/A
Efficacy: 120.7 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: General Diffuse

Input Watts (W): 42.6
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

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CATALOG NUMBER: SQ4-FA-050U-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
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12

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	1.7
10°-20°	244.0	4.7
20°-30°	377.2	7.3
30°-40°	450.3	8.8
40°-50°	452.9	8.8
50°-60°	394.1	7.7
60°-70°	279.4	5.4
70°-80°	147.8	2.9
80°-90°	38.4	0.7
90°-100°	201.0	3.9
100°-110°	528.5	10.3
110°-120°	548.0	10.7
120°-130°	439.6	8.5
130°-140°	344.9	6.7
140°-150°	264.7	5.1
150°-160°	190.7	3.7
160°-170°	116.7	2.3
170°-180°	39.4	0.8
0°-30°	707.1	13.7
0°-40°	1157.4	22.5
0°-60°	2004.3	39.0
0°-90°	2470.0	48.0
90°-120°	1277.6	24.8
90°-150°	2326.9	45.2
90°-180°	2674.0	52.0
0°-180°	5143.6	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°	3	10	3	10	3	3
95°	27	122	27	122	27	30
105°	95	828	95	828	95	101
115°	169	1066	169	1066	169	167
125°	235	849	235	849	235	209
135°	280	658	280	658	280	217
145°	325	534	325	534	325	204
155°	368	460	368	460	368	169
165°	397	428	397	428	397	112
175°	412	415	412	415	412	39
180°	412	412	412	412	412	



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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°	2.8	5.0	7.3	7.8	12.2	18.1	21.0	18.7	14.0	10.5	10.5
92.5°	11.1	29.9	48.7	53.5	75.1	104.0	118.4	103.8	74.5	52.6	50.5
95°	26.6	61.0	95.4	104.0	184.8	292.5	346.3	309.1	234.5	178.5	172.2
97.5°	45.9	76.4	106.7	114.3	249.0	428.5	518.2	494.7	447.5	412.1	400.0
100°	60.9	88.5	116.0	122.9	272.3	471.5	571.0	572.7	576.2	578.8	564.5
102.5°	73.6	99.4	125.1	131.5	283.0	485.0	586.0	616.0	676.1	721.1	708.8
105°	95.3	117.0	138.8	144.2	290.9	486.5	584.3	651.6	786.2	887.2	880.5
107.5°	117.4	137.7	157.9	163.0	292.4	464.8	551.1	644.9	832.6	973.5	975.1
110°	132.3	150.6	168.9	173.5	290.2	445.7	523.4	628.3	838.3	995.7	1002.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	147.0	164.5	181.9	186.3	290.3	428.9	498.2	605.7	820.5	981.5	992.1
115°	169.1	185.2	201.4	205.4	292.9	409.7	468.1	571.6	778.5	933.6	948.3
117.5°	191.0	205.7	220.2	223.9	298.4	397.7	447.3	540.7	727.4	867.5	883.8
120°	203.7	217.5	231.3	234.8	302.8	393.6	439.0	524.3	694.9	822.9	838.7
122.5°	216.2	230.1	244.0	247.5	309.2	391.4	432.6	509.4	663.2	778.4	794.0
125°	235.3	247.9	260.6	263.8	317.7	389.7	425.7	491.0	621.5	719.4	733.7
127.5°	250.8	263.6	276.4	279.6	326.3	388.7	419.9	475.9	588.0	672.0	684.1
130°	259.1	272.9	286.7	290.1	332.6	389.3	417.7	467.5	567.4	642.2	653.4
132.5°	267.7	281.5	295.3	298.7	337.7	389.7	415.8	460.5	549.7	616.7	626.7
135°	280.4	292.9	305.5	308.6	343.3	389.4	412.5	449.9	524.7	580.7	589.4
137.5°	293.4	305.8	318.2	321.3	351.5	391.7	411.8	443.4	506.7	554.1	561.2
140°	304.2	315.7	327.1	329.9	356.6	392.1	410.0	437.3	491.9	532.8	539.4
142.5°	312.5	323.0	333.6	336.3	360.8	393.6	410.0	434.0	481.9	517.8	523.6
145°	325.3	334.5	343.7	346.0	366.5	393.6	407.2	426.8	466.0	495.5	499.8
147.5°	338.0	346.9	356.0	358.2	374.5	396.3	407.2	422.6	453.5	476.7	480.2
150°	346.3	354.5	362.5	364.6	378.8	397.7	407.2	420.3	446.3	465.8	468.7
152.5°	354.8	361.0	367.2	368.7	381.5	398.6	407.2	418.3	440.6	457.2	459.4
155°	367.6	372.2	376.7	377.8	387.6	400.7	407.2	416.1	433.8	447.0	448.5
157.5°	377.0	381.4	385.9	387.0	393.7	402.7	407.2	414.1	427.9	438.2	439.2
160°	383.4	386.8	390.2	391.1	396.4	403.6	407.2	413.1	424.9	433.8	434.3
162.5°	389.7	392.3	394.9	395.5	399.4	404.6	407.2	412.2	422.1	429.6	430.1
165°	396.6	399.0	401.3	401.9	403.7	406.0	407.2	410.8	417.8	423.2	423.8
167.5°	403.0	404.1	405.2	405.5	407.0	409.0	410.0	412.3	416.9	420.4	420.7
170°	407.2	408.3	409.4	409.7	409.8	409.9	410.0	412.3	416.9	420.4	420.4
172.5°	409.4	409.7	409.9	410.0	410.0	410.0	410.0	411.8	415.4	418.2	418.0
175°	412.5	412.5	412.5	412.5	411.7	410.5	410.0	411.1	413.5	415.2	415.2
177.5°	412.5	412.5	412.5	412.5	411.8	410.9	410.5	411.4	413.3	414.6	414.4
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



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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°	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.0	18.1	12.2	7.8
92.5°	42.1	33.8	42.1	50.5	52.6	74.5	103.8	118.4	104.0	75.1	53.5
95°	146.8	121.5	146.8	172.2	178.5	234.5	309.1	346.3	292.5	184.8	104.0
97.5°	351.9	303.7	351.9	400.0	412.1	447.5	494.7	518.2	428.5	249.0	114.3
100°	507.0	449.5	507.0	564.5	578.8	576.2	572.7	571.0	471.5	272.3	122.9
102.5°	659.6	610.3	659.6	708.8	721.1	676.1	616.0	586.0	485.0	283.0	131.5
105°	854.1	827.6	854.1	880.5	887.2	786.2	651.6	584.3	486.5	290.9	144.2
107.5°	981.4	987.9	981.4	975.1	973.5	832.6	644.9	551.1	464.8	292.4	163.0
110°	1030.1	1057.6	1030.1	1002.6	995.7	838.3	628.3	523.4	445.7	290.2	173.5



TEST NUMBER: P934262

CATALOG NUMBER: SQ4-FA-050U-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°	1034.4	1076.7	1034.4	992.1	981.5	820.5	605.7	498.2	428.9	290.3	186.3
115°	1007.0	1065.7	1007.0	948.3	933.6	778.5	571.6	468.1	409.7	292.9	205.4
117.5°	948.9	1013.9	948.9	883.8	867.5	727.4	540.7	447.3	397.7	298.4	223.9
120°	901.9	965.2	901.9	838.7	822.9	694.9	524.3	439.0	393.6	302.8	234.8
122.5°	856.4	918.7	856.4	794.0	778.4	663.2	509.4	432.6	391.4	309.2	247.5
125°	791.2	848.7	791.2	733.7	719.4	621.5	491.0	425.7	389.7	317.7	263.8
127.5°	732.6	781.2	732.6	684.1	672.0	588.0	475.9	419.9	388.7	326.3	279.6
130°	698.2	742.9	698.2	653.4	642.2	567.4	467.5	417.7	389.3	332.6	290.1
132.5°	666.8	706.9	666.8	626.7	616.7	549.7	460.5	415.8	389.7	337.7	298.7
135°	623.9	658.5	623.9	589.4	580.7	524.7	449.9	412.5	389.4	343.3	308.6
137.5°	589.6	617.9	589.6	561.2	554.1	506.7	443.4	411.8	391.7	351.5	321.3
140°	565.8	592.3	565.8	539.4	532.8	491.9	437.3	410.0	392.1	356.6	329.9
142.5°	546.3	569.1	546.3	523.6	517.8	481.9	434.0	410.0	393.6	360.8	336.3
145°	517.0	534.2	517.0	499.8	495.5	466.0	426.8	407.2	393.6	366.5	346.0
147.5°	494.5	508.7	494.5	480.2	476.7	453.5	422.6	407.2	396.3	374.5	358.2
150°	480.3	491.9	480.3	468.7	465.8	446.3	420.3	407.2	397.7	378.8	364.6
152.5°	468.2	476.9	468.2	459.4	457.2	440.6	418.3	407.2	398.6	381.5	368.7
155°	454.3	460.0	454.3	448.5	447.0	433.8	416.1	407.2	400.7	387.6	377.8
157.5°	443.3	447.3	443.3	439.2	438.2	427.9	414.1	407.2	402.7	393.7	387.0
160°	436.6	439.0	436.6	434.3	433.8	424.9	413.1	407.2	403.6	396.4	391.1
162.5°	432.3	434.6	432.3	430.1	429.6	422.1	412.2	407.2	404.6	399.4	395.5
165°	426.2	428.5	426.2	423.8	423.2	417.8	410.8	407.2	406.0	403.7	401.9
167.5°	421.7	422.7	421.7	420.7	420.4	416.9	412.3	410.0	409.0	407.0	405.5
170°	420.4	420.4	420.4	420.4	420.4	416.9	412.3	410.0	409.9	409.8	409.7
172.5°	417.1	416.3	417.1	418.0	418.2	415.4	411.8	410.0	410.0	410.0	410.0
175°	415.2	415.2	415.2	415.2	415.2	413.5	411.1	410.0	410.5	411.7	412.5
177.5°	413.5	412.5	413.5	414.4	414.6	413.3	411.4	410.5	410.9	411.8	412.5
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934262

CATALOG NUMBER: SQ4-FA-050U-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°	7.3	5.0	2.8	5.0	7.3	7.8	12.2	18.1	21.0	18.7	14.0
92.5°	48.7	29.9	11.1	29.9	48.7	53.5	75.1	104.0	118.4	103.8	74.5
95°	95.4	61.0	26.6	61.0	95.4	104.0	184.8	292.5	346.3	309.1	234.5
97.5°	106.7	76.4	45.9	76.4	106.7	114.3	249.0	428.5	518.2	494.7	447.5
100°	116.0	88.5	60.9	88.5	116.0	122.9	272.3	471.5	571.0	572.7	576.2
102.5°	125.1	99.4	73.6	99.4	125.1	131.5	283.0	485.0	586.0	616.0	676.1
105°	138.8	117.0	95.3	117.0	138.8	144.2	290.9	486.5	584.3	651.6	786.2
107.5°	157.9	137.7	117.4	137.7	157.9	163.0	292.4	464.8	551.1	644.9	832.6
110°	168.9	150.6	132.3	150.6	168.9	173.5	290.2	445.7	523.4	628.3	838.3



TEST NUMBER: P934262

CATALOG NUMBER: SQ4-FA-050U-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°	181.9	164.5	147.0	164.5	181.9	186.3	290.3	428.9	498.2	605.7	820.5
115°	201.4	185.2	169.1	185.2	201.4	205.4	292.9	409.7	468.1	571.6	778.5
117.5°	220.2	205.7	191.0	205.7	220.2	223.9	298.4	397.7	447.3	540.7	727.4
120°	231.3	217.5	203.7	217.5	231.3	234.8	302.8	393.6	439.0	524.3	694.9
122.5°	244.0	230.1	216.2	230.1	244.0	247.5	309.2	391.4	432.6	509.4	663.2
125°	260.6	247.9	235.3	247.9	260.6	263.8	317.7	389.7	425.7	491.0	621.5
127.5°	276.4	263.6	250.8	263.6	276.4	279.6	326.3	388.7	419.9	475.9	588.0
130°	286.7	272.9	259.1	272.9	286.7	290.1	332.6	389.3	417.7	467.5	567.4
132.5°	295.3	281.5	267.7	281.5	295.3	298.7	337.7	389.7	415.8	460.5	549.7
135°	305.5	292.9	280.4	292.9	305.5	308.6	343.3	389.4	412.5	449.9	524.7
137.5°	318.2	305.8	293.4	305.8	318.2	321.3	351.5	391.7	411.8	443.4	506.7
140°	327.1	315.7	304.2	315.7	327.1	329.9	356.6	392.1	410.0	437.3	491.9
142.5°	333.6	323.0	312.5	323.0	333.6	336.3	360.8	393.6	410.0	434.0	481.9
145°	343.7	334.5	325.3	334.5	343.7	346.0	366.5	393.6	407.2	426.8	466.0
147.5°	356.0	346.9	338.0	346.9	356.0	358.2	374.5	396.3	407.2	422.6	453.5
150°	362.5	354.5	346.3	354.5	362.5	364.6	378.8	397.7	407.2	420.3	446.3
152.5°	367.2	361.0	354.8	361.0	367.2	368.7	381.5	398.6	407.2	418.3	440.6
155°	376.7	372.2	367.6	372.2	376.7	377.8	387.6	400.7	407.2	416.1	433.8
157.5°	385.9	381.4	377.0	381.4	385.9	387.0	393.7	402.7	407.2	414.1	427.9
160°	390.2	386.8	383.4	386.8	390.2	391.1	396.4	403.6	407.2	413.1	424.9
162.5°	394.9	392.3	389.7	392.3	394.9	395.5	399.4	404.6	407.2	412.2	422.1
165°	401.3	399.0	396.6	399.0	401.3	401.9	403.7	406.0	407.2	410.8	417.8
167.5°	405.2	404.1	403.0	404.1	405.2	405.5	407.0	409.0	410.0	412.3	416.9
170°	409.4	408.3	407.2	408.3	409.4	409.7	409.8	409.9	410.0	412.3	416.9
172.5°	409.9	409.7	409.4	409.7	409.9	410.0	410.0	410.0	410.0	411.8	415.4
175°	412.5	412.5	412.5	412.5	412.5	412.5	411.7	410.5	410.0	411.1	413.5
177.5°	412.5	412.5	412.5	412.5	412.5	412.5	411.8	410.9	410.5	411.4	413.3
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934262

CATALOG NUMBER: SQ4-FA-050U-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°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.0	18.1
92.5°	52.6	50.5	42.1	33.8	42.1	50.5	52.6	74.5	103.8	118.4	104.0
95°	178.5	172.2	146.8	121.5	146.8	172.2	178.5	234.5	309.1	346.3	292.5
97.5°	412.1	400.0	351.9	303.7	351.9	400.0	412.1	447.5	494.7	518.2	428.5
100°	578.8	564.5	507.0	449.5	507.0	564.5	578.8	576.2	572.7	571.0	471.5
102.5°	721.1	708.8	659.6	610.3	659.6	708.8	721.1	676.1	616.0	586.0	485.0
105°	887.2	880.5	854.1	827.6	854.1	880.5	887.2	786.2	651.6	584.3	486.5
107.5°	973.5	975.1	981.4	987.9	981.4	975.1	973.5	832.6	644.9	551.1	464.8
110°	995.7	1002.6	1030.1	1057.6	1030.1	1002.6	995.7	838.3	628.3	523.4	445.7



TEST NUMBER: P934262

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	981.5	992.1	1034.4	1076.7	1034.4	992.1	981.5	820.5	605.7	498.2	428.9
115°	933.6	948.3	1007.0	1065.7	1007.0	948.3	933.6	778.5	571.6	468.1	409.7
117.5°	867.5	883.8	948.9	1013.9	948.9	883.8	867.5	727.4	540.7	447.3	397.7
120°	822.9	838.7	901.9	965.2	901.9	838.7	822.9	694.9	524.3	439.0	393.6
122.5°	778.4	794.0	856.4	918.7	856.4	794.0	778.4	663.2	509.4	432.6	391.4
125°	719.4	733.7	791.2	848.7	791.2	733.7	719.4	621.5	491.0	425.7	389.7
127.5°	672.0	684.1	732.6	781.2	732.6	684.1	672.0	588.0	475.9	419.9	388.7
130°	642.2	653.4	698.2	742.9	698.2	653.4	642.2	567.4	467.5	417.7	389.3
132.5°	616.7	626.7	666.8	706.9	666.8	626.7	616.7	549.7	460.5	415.8	389.7
135°	580.7	589.4	623.9	658.5	623.9	589.4	580.7	524.7	449.9	412.5	389.4
137.5°	554.1	561.2	589.6	617.9	589.6	561.2	554.1	506.7	443.4	411.8	391.7
140°	532.8	539.4	565.8	592.3	565.8	539.4	532.8	491.9	437.3	410.0	392.1
142.5°	517.8	523.6	546.3	569.1	546.3	523.6	517.8	481.9	434.0	410.0	393.6
145°	495.5	499.8	517.0	534.2	517.0	499.8	495.5	466.0	426.8	407.2	393.6
147.5°	476.7	480.2	494.5	508.7	494.5	480.2	476.7	453.5	422.6	407.2	396.3
150°	465.8	468.7	480.3	491.9	480.3	468.7	465.8	446.3	420.3	407.2	397.7
152.5°	457.2	459.4	468.2	476.9	468.2	459.4	457.2	440.6	418.3	407.2	398.6
155°	447.0	448.5	454.3	460.0	454.3	448.5	447.0	433.8	416.1	407.2	400.7
157.5°	438.2	439.2	443.3	447.3	443.3	439.2	438.2	427.9	414.1	407.2	402.7
160°	433.8	434.3	436.6	439.0	436.6	434.3	433.8	424.9	413.1	407.2	403.6
162.5°	429.6	430.1	432.3	434.6	432.3	430.1	429.6	422.1	412.2	407.2	404.6
165°	423.2	423.8	426.2	428.5	426.2	423.8	423.2	417.8	410.8	407.2	406.0
167.5°	420.4	420.7	421.7	422.7	421.7	420.7	420.4	416.9	412.3	410.0	409.0
170°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	416.9	412.3	410.0	409.9
172.5°	418.2	418.0	417.1	416.3	417.1	418.0	418.2	415.4	411.8	410.0	410.0
175°	415.2	415.2	415.2	415.2	415.2	415.2	415.2	413.5	411.1	410.0	410.5
177.5°	414.6	414.4	413.5	412.5	413.5	414.4	414.6	413.3	411.4	410.5	410.9
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934262

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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°	12.2	7.8	7.3	5.0	2.8
92.5°	75.1	53.5	48.7	29.9	11.1
95°	184.8	104.0	95.4	61.0	26.6
97.5°	249.0	114.3	106.7	76.4	45.9
100°	272.3	122.9	116.0	88.5	60.9
102.5°	283.0	131.5	125.1	99.4	73.6
105°	290.9	144.2	138.8	117.0	95.3
107.5°	292.4	163.0	157.9	137.7	117.4
110°	290.2	173.5	168.9	150.6	132.3



TEST NUMBER: P934262

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

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	290.3	186.3	181.9	164.5	147.0
115°	292.9	205.4	201.4	185.2	169.1
117.5°	298.4	223.9	220.2	205.7	191.0
120°	302.8	234.8	231.3	217.5	203.7
122.5°	309.2	247.5	244.0	230.1	216.2
125°	317.7	263.8	260.6	247.9	235.3
127.5°	326.3	279.6	276.4	263.6	250.8
130°	332.6	290.1	286.7	272.9	259.1
132.5°	337.7	298.7	295.3	281.5	267.7
135°	343.3	308.6	305.5	292.9	280.4
137.5°	351.5	321.3	318.2	305.8	293.4
140°	356.6	329.9	327.1	315.7	304.2
142.5°	360.8	336.3	333.6	323.0	312.5
145°	366.5	346.0	343.7	334.5	325.3
147.5°	374.5	358.2	356.0	346.9	338.0
150°	378.8	364.6	362.5	354.5	346.3
152.5°	381.5	368.7	367.2	361.0	354.8
155°	387.6	377.8	376.7	372.2	367.6
157.5°	393.7	387.0	385.9	381.4	377.0
160°	396.4	391.1	390.2	386.8	383.4
162.5°	399.4	395.5	394.9	392.3	389.7
165°	403.7	401.9	401.3	399.0	396.6
167.5°	407.0	405.5	405.2	404.1	403.0
170°	409.8	409.7	409.4	408.3	407.2
172.5°	410.0	410.0	409.9	409.7	409.4
175°	411.7	412.5	412.5	412.5	412.5
177.5°	411.8	412.5	412.5	412.5	412.5
180°	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934262

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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	10.78	11.62	11.75	12.61	13.91	13.60	14.44	14.57	15.43	16.73
	3H	11.25	12.01	12.24	13.01	14.33	14.94	15.70	15.93	16.70	18.02
	4H	11.44	12.16	12.44	13.16	14.49	15.39	16.10	16.38	17.10	18.43
	6H	11.56	12.22	12.57	13.22	14.57	15.67	16.33	16.68	17.33	18.67
	8H	11.56	12.19	12.58	13.21	14.55	15.74	16.37	16.76	17.39	18.73
	12H	11.53	12.13	12.55	13.14	14.51	15.78	16.38	16.80	17.39	18.75
4H	2H	11.81	12.52	12.81	13.52	14.85	14.01	14.72	15.01	15.72	17.05
	3H	12.83	13.43	13.85	14.46	15.80	15.51	16.11	16.52	17.14	18.48
	4H	13.11	13.65	14.13	14.67	16.04	16.04	16.58	17.06	17.60	18.97
	6H	13.23	13.70	14.26	14.75	16.11	16.40	16.87	17.43	17.91	19.28
	8H	13.24	13.67	14.27	14.71	16.09	16.51	16.94	17.54	17.98	19.36
	12H	13.20	13.60	14.25	14.65	16.03	16.56	16.96	17.61	18.01	19.39
8H	4H	13.56	14.00	14.59	15.03	16.41	16.16	16.60	17.19	17.64	19.01
	6H	13.82	14.18	14.88	15.26	16.64	16.59	16.96	17.65	18.04	19.41
	8H	13.86	14.18	14.93	15.24	16.64	16.75	17.06	17.81	18.13	19.52
	12H	13.84	14.12	14.91	15.18	16.62	16.84	17.12	17.91	18.18	19.62
12H	4H	13.56	13.96	14.62	15.01	16.39	16.12	16.52	17.18	17.57	18.96
	6H	13.88	14.20	14.94	15.26	16.66	16.59	16.91	17.66	17.97	19.37
	8H	13.95	14.23	15.01	15.28	16.72	16.75	17.03	17.82	18.09	19.53