

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: P934263

Luminaire Tested: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934263
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-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

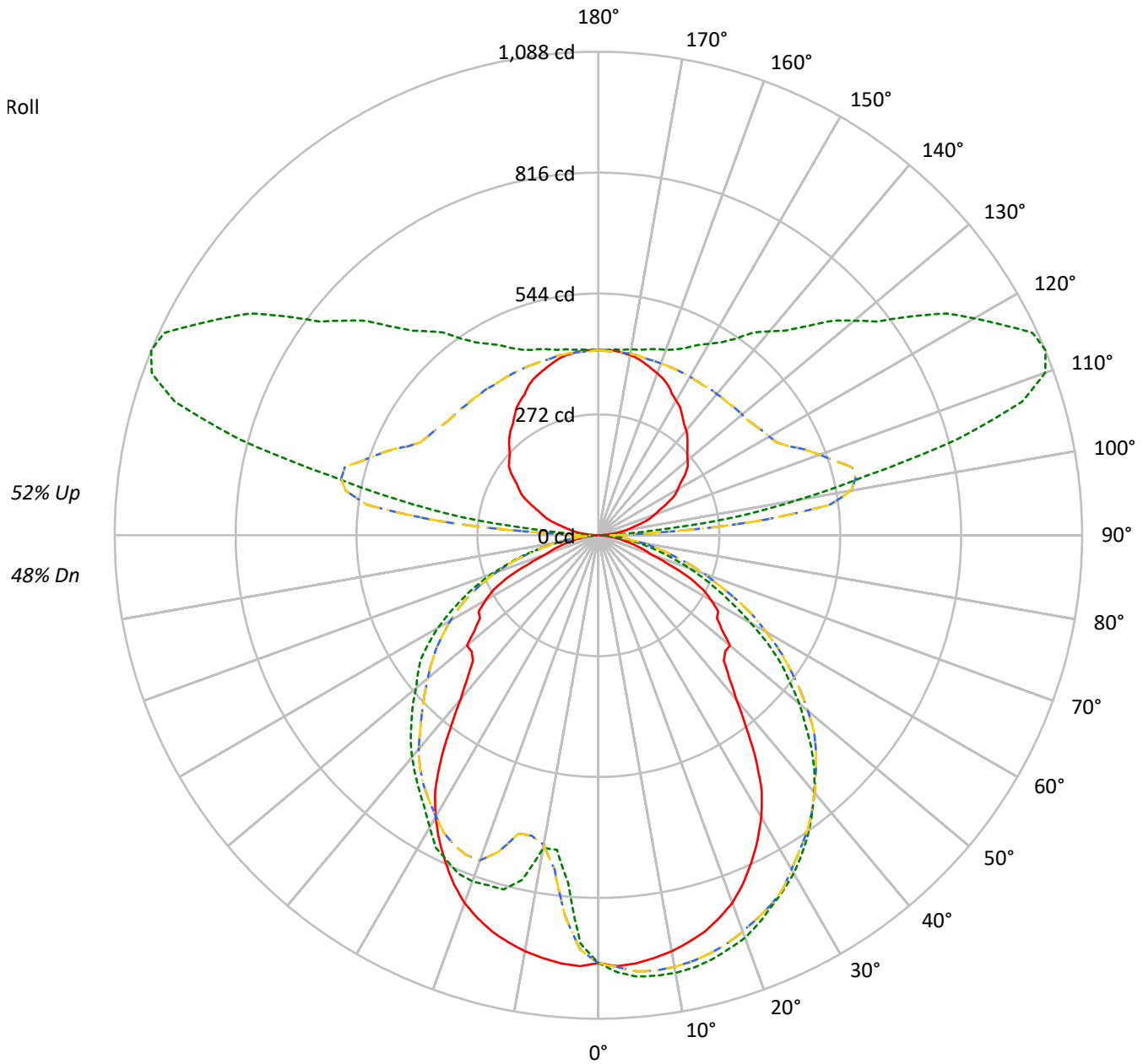
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5200.2 lumens
Efficiency: N/A
Efficacy: 122.1 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

TEST NUMBER: P934263
CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5954	5954	5954	5954
5°	5996	6010	5996	4726
10°	5954	5920	5954	4233
15°	5888	5792	5888	4837
20°	5762	5640	5762	4847
25°	5507	5419	5507	4744
30°	5180	5235	5180	4519
35°	4615	5002	4615	4270
40°	3843	4728	3843	4084
45°	3432	4407	3432	3868
50°	3643	4025	3643	3652
55°	3424	3613	3424	3527
60°	3526	3068	3526	3230
65°	3191	2536	3191	2835
70°	2203	2021	2203	2377
75°	1926	1494	1926	1789
80°	1540	987	1540	1075
85°	870	523	870	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5263 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	1.7
10°-20°	246.7	4.7
20°-30°	381.3	7.3
30°-40°	455.2	8.8
40°-50°	457.9	8.8
50°-60°	398.4	7.7
60°-70°	282.5	5.4
70°-80°	149.4	2.9
80°-90°	38.8	0.7
90°-100°	203.2	3.9
100°-110°	534.4	10.3
110°-120°	554.1	10.7
120°-130°	444.4	8.5
130°-140°	348.7	6.7
140°-150°	267.7	5.1
150°-160°	192.8	3.7
160°-170°	117.9	2.3
170°-180°	39.8	0.8
0°-30°	714.9	13.7
0°-40°	1170.1	22.5
0°-60°	2026.4	39.0
0°-90°	2497.1	48.0
90°-120°	1291.7	24.8
90°-150°	2352.5	45.2
90°-180°	2703.0	52.0
0°-180°	5200.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	962	962	962	962	962	
5°	967	997	967	784	967	92
15°	923	988	923	825	923	260
25°	813	922	813	807	813	373
35°	618	822	618	702	618	383
45°	399	677	399	595	399	319
55°	325	500	325	488	325	299
65°	226	301	226	337	226	216
75°	86	143	86	171	86	90
85°	15	36	15	31	15	20
90°	3	11	3	11	3	3
95°	27	123	27	123	27	30
105°	96	837	96	837	96	102
115°	171	1077	171	1077	171	169
125°	238	858	238	858	238	211
135°	284	666	284	666	284	219
145°	329	540	329	540	329	206
155°	372	465	372	465	372	171
165°	401	433	401	433	401	113
175°	417	420	417	420	417	40
180°	417	417	417	417	417	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	970.7	970.7	976.1	977.9	977.9	975.2	972.5	975.2	983.5	986.2	985.3
5°	967.0	974.3	984.4	986.2	988.0	987.1	985.3	987.1	996.1	998.0	998.9
7.5°	959.7	973.4	986.2	988.9	991.6	988.9	988.0	989.8	998.9	1000.7	1000.7
10°	950.6	969.8	984.4	986.2	988.9	986.2	986.2	989.8	998.9	1000.7	1001.7
12.5°	937.9	964.3	977.9	979.7	983.5	982.6	981.6	985.3	994.3	996.1	996.1
15°	923.4	954.3	967.0	968.9	975.2	973.4	973.4	977.0	987.1	989.8	988.9
17.5°	903.3	941.5	956.1	958.8	963.4	962.5	963.4	967.0	976.1	977.9	978.8
20°	880.5	924.3	941.5	944.3	948.8	948.8	948.8	953.4	962.5	966.1	966.1
22.5°	849.6	906.0	924.3	926.1	931.5	931.5	933.3	939.7	947.9	948.8	948.8
25°	813.1	886.0	901.4	907.0	912.4	915.1	917.8	921.5	924.3	923.4	924.3
27.5°	774.9	860.4	880.5	884.2	891.5	894.2	897.8	898.7	899.6	902.4	900.5
30°	732.1	825.0	855.0	858.6	870.5	872.3	868.7	870.5	875.0	876.9	878.7
32.5°	683.8	772.2	828.6	836.8	847.8	842.3	841.3	844.1	851.4	851.4	853.2
35°	618.3	731.2	804.1	811.3	819.5	813.1	816.8	817.7	822.2	825.0	824.1
37.5°	546.4	695.7	778.5	784.0	790.4	782.1	787.7	790.4	794.0	792.2	792.2
40°	482.6	640.1	748.5	752.1	757.6	751.2	756.7	758.5	760.3	758.5	757.6
42.5°	435.3	579.1	716.6	721.1	717.5	722.0	723.9	727.6	724.9	721.1	721.1
45°	398.8	562.7	682.0	687.5	682.0	689.3	692.0	692.0	683.8	682.0	681.1
47.5°	387.0	530.0	647.5	647.5	644.7	653.8	658.3	652.0	643.8	641.0	641.0
50°	386.1	493.5	600.0	596.4	609.2	620.1	615.5	609.2	602.8	592.8	592.8
52.5°	350.6	448.9	539.0	552.7	572.8	579.1	571.9	565.5	554.5	550.0	546.4
55°	325.0	402.4	483.5	510.9	531.8	539.9	526.4	519.9	503.5	500.8	499.0
57.5°	319.6	335.1	432.5	467.2	492.6	491.7	483.5	471.7	458.0	455.3	454.4
60°	293.2	242.2	377.9	418.9	445.2	442.5	435.3	424.3	411.6	409.8	408.0
62.5°	265.8	175.8	316.0	362.4	399.7	398.8	392.5	376.1	367.0	362.4	358.8
65°	225.8	147.5	224.9	301.4	355.1	356.9	343.3	331.5	321.4	316.0	315.1
67.5°	172.1	120.2	152.1	251.4	312.4	310.5	293.2	287.8	275.0	272.3	266.8
70°	127.4	80.1	105.6	203.9	270.5	265.8	252.3	245.8	234.0	227.6	224.0
72.5°	105.6	64.6	77.4	158.4	227.6	222.2	210.4	203.0	193.1	187.5	183.9
75°	85.6	68.2	59.2	117.5	184.8	181.2	170.3	163.0	154.8	147.5	148.4
77.5°	62.8	63.7	47.3	86.5	146.6	141.1	134.8	125.6	122.0	114.8	114.8
80°	47.3	50.1	35.5	59.2	105.6	105.6	100.2	93.8	87.4	83.8	83.8
82.5°	31.9	31.9	26.4	37.3	72.0	69.2	65.5	63.7	60.1	58.3	58.3
85°	14.6	18.2	16.4	22.7	39.2	41.0	41.0	39.2	38.3	36.4	37.3
87.5°	4.5	8.2	10.0	12.8	20.0	20.9	21.8	21.8	21.8	22.7	22.7
90°	2.8	5.1	7.3	7.9	12.3	18.3	21.3	18.9	14.1	10.6	10.6
92.5°	11.2	30.2	49.2	54.0	75.9	105.2	119.8	104.9	75.3	53.1	51.1
95°	26.9	61.6	96.5	105.2	186.8	295.7	350.1	312.5	237.1	180.5	174.1
97.5°	46.4	77.2	107.9	115.6	251.7	433.2	523.9	500.1	452.4	416.6	404.4
100°	61.6	89.4	117.3	124.3	275.3	476.7	577.3	579.0	582.6	585.2	570.7
102.5°	74.4	100.5	126.5	133.0	286.1	490.3	592.4	622.8	683.5	729.0	716.6
105°	96.3	118.3	140.3	145.8	294.1	491.9	590.7	658.8	794.8	896.9	890.2
107.5°	118.7	139.2	159.7	164.8	295.6	470.0	557.1	652.0	841.8	984.2	985.8
110°	133.8	152.2	170.8	175.4	293.4	450.6	529.2	635.2	847.5	1006.6	1013.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	148.6	166.3	183.9	188.4	293.5	433.7	503.7	612.3	829.5	992.3	1003.0
115°	171.0	187.3	203.6	207.6	296.2	414.2	473.2	577.9	787.0	943.9	958.7
117.5°	193.1	207.9	222.7	226.4	301.7	402.1	452.2	546.6	735.4	877.0	893.5
120°	205.9	219.9	233.8	237.3	306.1	397.9	443.8	530.1	702.6	831.9	848.0
122.5°	218.6	232.6	246.7	250.2	312.6	395.7	437.4	515.0	670.5	786.9	802.7
125°	237.9	250.6	263.5	266.7	321.2	394.0	430.4	496.4	628.4	727.3	741.8
127.5°	253.5	266.5	279.4	282.7	329.9	393.0	424.5	481.2	594.4	679.4	691.6
130°	262.0	275.9	289.8	293.3	336.3	393.6	422.3	472.7	573.6	649.3	660.6
132.5°	270.6	284.6	298.5	302.0	341.4	394.0	420.4	465.5	555.8	623.5	633.6
135°	283.5	296.2	308.8	312.0	347.0	393.7	417.0	454.8	530.4	587.1	595.9
137.5°	296.6	309.2	321.7	324.9	355.4	396.0	416.4	448.3	512.2	560.2	567.4
140°	307.6	319.2	330.7	333.6	360.5	396.5	414.5	442.1	497.3	538.7	545.4
142.5°	315.9	326.6	337.3	340.0	364.8	397.9	414.5	438.7	487.2	523.5	529.3
145°	328.8	338.2	347.5	349.8	370.5	397.9	411.7	431.5	471.1	500.9	505.3
147.5°	341.7	350.7	359.9	362.2	378.6	400.6	411.7	427.2	458.5	481.9	485.5
150°	350.1	358.4	366.5	368.6	383.0	402.1	411.7	424.9	451.2	471.0	473.9
152.5°	358.7	365.0	371.2	372.7	385.7	403.0	411.7	422.9	445.4	462.3	464.4
155°	371.7	376.3	380.8	382.0	391.8	405.1	411.7	420.6	438.6	451.9	453.4
157.5°	381.2	385.6	390.1	391.2	398.0	407.1	411.7	418.6	432.6	443.0	444.0
160°	387.6	391.0	394.5	395.4	400.8	408.0	411.7	417.6	429.6	438.6	439.1
162.5°	394.0	396.6	399.3	399.9	403.8	409.0	411.7	416.7	426.8	434.3	434.8
165°	401.0	403.3	405.7	406.3	408.1	410.5	411.7	415.3	422.4	427.9	428.5
167.5°	407.4	408.5	409.7	409.9	411.5	413.5	414.5	416.8	421.5	425.1	425.3
170°	411.7	412.8	413.9	414.2	414.3	414.4	414.5	416.8	421.5	425.1	425.1
172.5°	413.9	414.2	414.4	414.5	414.5	414.5	414.5	416.3	420.0	422.8	422.6
175°	417.0	417.0	417.0	417.0	416.2	415.0	414.5	415.6	418.0	419.7	419.7
177.5°	417.0	417.0	417.0	417.0	416.4	415.5	415.0	415.9	417.8	419.2	418.9
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	987.1	984.4	987.1	985.3	986.2	983.5	975.2	972.5	975.2	977.9	977.9
5°	998.9	997.0	998.9	998.9	998.0	996.1	987.1	985.3	987.1	988.0	986.2
7.5°	1002.6	999.8	1002.6	1000.7	1000.7	998.9	989.8	988.0	988.9	991.6	988.9
10°	1002.6	999.8	1002.6	1001.7	1000.7	998.9	989.8	986.2	986.2	988.9	986.2
12.5°	998.0	996.1	998.0	996.1	996.1	994.3	985.3	981.6	982.6	983.5	979.7
15°	990.7	988.0	990.7	988.9	989.8	987.1	977.0	973.4	973.4	975.2	968.9
17.5°	979.7	976.1	979.7	978.8	977.9	976.1	967.0	963.4	962.5	963.4	958.8
20°	967.0	964.3	967.0	966.1	966.1	962.5	953.4	948.8	948.8	948.8	944.3
22.5°	947.0	944.3	947.0	948.8	948.8	947.9	939.7	933.3	931.5	931.5	926.1
25°	924.3	921.5	924.3	924.3	923.4	924.3	921.5	917.8	915.1	912.4	907.0
27.5°	902.4	900.5	902.4	900.5	902.4	899.6	898.7	897.8	894.2	891.5	884.2
30°	880.5	878.7	880.5	878.7	876.9	875.0	870.5	868.7	872.3	870.5	858.6
32.5°	853.2	851.4	853.2	853.2	851.4	851.4	844.1	841.3	842.3	847.8	836.8
35°	825.0	822.2	825.0	824.1	825.0	822.2	817.7	816.8	813.1	819.5	811.3
37.5°	792.2	789.5	792.2	792.2	792.2	794.0	790.4	787.7	782.1	790.4	784.0
40°	758.5	754.9	758.5	757.6	758.5	760.3	758.5	756.7	751.2	757.6	752.1
42.5°	720.2	719.3	720.2	721.1	721.1	724.9	727.6	723.9	722.0	717.5	721.1
45°	679.3	677.4	679.3	681.1	682.0	683.8	692.0	692.0	689.3	682.0	687.5
47.5°	635.6	631.0	635.6	641.0	641.0	643.8	652.0	658.3	653.8	644.7	647.5
50°	589.2	590.1	589.2	592.8	592.8	602.8	609.2	615.5	620.1	609.2	596.4
52.5°	543.6	542.7	543.6	546.4	550.0	554.5	565.5	571.9	579.1	572.8	552.7
55°	498.1	499.9	498.1	499.0	500.8	503.5	519.9	526.4	539.9	531.8	510.9
57.5°	452.6	449.9	452.6	454.4	455.3	458.0	471.7	483.5	491.7	492.6	467.2
60°	399.7	396.1	399.7	408.0	409.8	411.6	424.3	435.3	442.5	445.2	418.9
62.5°	353.3	346.9	353.3	358.8	362.4	367.0	376.1	392.5	398.8	399.7	362.4
65°	304.1	301.4	304.1	315.1	316.0	321.4	331.5	343.3	356.9	355.1	301.4
67.5°	259.5	259.5	259.5	266.8	272.3	275.0	287.8	293.2	310.5	312.4	251.4
70°	218.5	217.6	218.5	224.0	227.6	234.0	245.8	252.3	265.8	270.5	203.9
72.5°	179.4	178.5	179.4	183.9	187.5	193.1	203.0	210.4	222.2	227.6	158.4
75°	144.8	142.9	144.8	148.4	147.5	154.8	163.0	170.3	181.2	184.8	117.5
77.5°	111.1	111.1	111.1	114.8	114.8	122.0	125.6	134.8	141.1	146.6	86.5
80°	82.8	81.9	82.8	83.8	83.8	87.4	93.8	100.2	105.6	105.6	59.2
82.5°	58.3	56.5	58.3	58.3	58.3	60.1	63.7	65.5	69.2	72.0	37.3
85°	36.4	36.4	36.4	37.3	36.4	38.3	39.2	41.0	41.0	39.2	22.7
87.5°	23.7	22.7	23.7	22.7	22.7	21.8	21.8	21.8	20.9	20.0	12.8
90°	10.6	10.6	10.6	10.6	10.6	14.1	18.9	21.3	18.3	12.3	7.9
92.5°	42.5	34.1	42.5	51.1	53.1	75.3	104.9	119.8	105.2	75.9	54.0
95°	148.4	122.8	148.4	174.1	180.5	237.1	312.5	350.1	295.7	186.8	105.2
97.5°	355.7	307.0	355.7	404.4	416.6	452.4	500.1	523.9	433.2	251.7	115.6
100°	512.6	454.5	512.6	570.7	585.2	582.6	579.0	577.3	476.7	275.3	124.3
102.5°	666.8	617.0	666.8	716.6	729.0	683.5	622.8	592.4	490.3	286.1	133.0
105°	863.5	836.7	863.5	890.2	896.9	794.8	658.8	590.7	491.9	294.1	145.8
107.5°	992.2	998.8	992.2	985.8	984.2	841.8	652.0	557.1	470.0	295.6	164.8
110°	1041.4	1069.3	1041.4	1013.6	1006.6	847.5	635.2	529.2	450.6	293.4	175.4



TEST NUMBER: P934263

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1045.8	1088.5	1045.8	1003.0	992.3	829.5	612.3	503.7	433.7	293.5	188.4
115°	1018.0	1077.4	1018.0	958.7	943.9	787.0	577.9	473.2	414.2	296.2	207.6
117.5°	959.3	1025.1	959.3	893.5	877.0	735.4	546.6	452.2	402.1	301.7	226.4
120°	911.9	975.9	911.9	848.0	831.9	702.6	530.1	443.8	397.9	306.1	237.3
122.5°	865.8	928.8	865.8	802.7	786.9	670.5	515.0	437.4	395.7	312.6	250.2
125°	799.9	858.0	799.9	741.8	727.3	628.4	496.4	430.4	394.0	321.2	266.7
127.5°	740.7	789.8	740.7	691.6	679.4	594.4	481.2	424.5	393.0	329.9	282.7
130°	705.8	751.1	705.8	660.6	649.3	573.6	472.7	422.3	393.6	336.3	293.3
132.5°	674.2	714.7	674.2	633.6	623.5	555.8	465.5	420.4	394.0	341.4	302.0
135°	630.8	665.7	630.8	595.9	587.1	530.4	454.8	417.0	393.7	347.0	312.0
137.5°	596.0	624.7	596.0	567.4	560.2	512.2	448.3	416.4	396.0	355.4	324.9
140°	572.1	598.9	572.1	545.4	538.7	497.3	442.1	414.5	396.5	360.5	333.6
142.5°	552.3	575.3	552.3	529.3	523.5	487.2	438.7	414.5	397.9	364.8	340.0
145°	522.7	540.1	522.7	505.3	500.9	471.1	431.5	411.7	397.9	370.5	349.8
147.5°	499.9	514.3	499.9	485.5	481.9	458.5	427.2	411.7	400.6	378.6	362.2
150°	485.6	497.3	485.6	473.9	471.0	451.2	424.9	411.7	402.1	383.0	368.6
152.5°	473.3	482.2	473.3	464.4	462.3	445.4	422.9	411.7	403.0	385.7	372.7
155°	459.3	465.1	459.3	453.4	451.9	438.6	420.6	411.7	405.1	391.8	382.0
157.5°	448.1	452.2	448.1	444.0	443.0	432.6	418.6	411.7	407.1	398.0	391.2
160°	441.4	443.8	441.4	439.1	438.6	429.6	417.6	411.7	408.0	400.8	395.4
162.5°	437.1	439.4	437.1	434.8	434.3	426.8	416.7	411.7	409.0	403.8	399.9
165°	430.9	433.2	430.9	428.5	427.9	422.4	415.3	411.7	410.5	408.1	406.3
167.5°	426.3	427.3	426.3	425.3	425.1	421.5	416.8	414.5	413.5	411.5	409.9
170°	425.1	425.1	425.1	425.1	425.1	421.5	416.8	414.5	414.4	414.3	414.2
172.5°	421.7	420.9	421.7	422.6	422.8	420.0	416.3	414.5	414.5	414.5	414.5
175°	419.7	419.7	419.7	419.7	419.7	418.0	415.6	414.5	415.0	416.2	417.0
177.5°	418.0	417.0	418.0	418.9	419.2	417.8	415.9	415.0	415.5	416.4	417.0
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



TEST NUMBER: P934263

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	976.1	970.7	970.7	961.6	957.9	955.2	950.6	937.0	933.3	929.7	935.1
5°	984.4	974.3	967.0	950.6	937.0	931.5	914.2	881.4	859.5	843.2	834.1
7.5°	986.2	973.4	959.7	934.2	901.4	886.9	834.1	774.0	757.6	743.0	733.9
10°	984.4	969.8	950.6	912.4	835.0	809.5	756.7	717.5	707.5	704.8	707.5
12.5°	977.9	964.3	937.9	874.1	765.8	748.5	717.5	694.8	692.9	697.5	722.0
15°	967.0	954.3	923.4	823.2	727.6	714.8	692.9	684.8	694.8	726.7	800.4
17.5°	956.1	941.5	903.3	773.1	698.4	689.3	673.8	690.2	746.7	789.5	814.0
20°	941.5	924.3	880.5	736.6	677.4	669.3	661.9	735.7	778.5	794.0	807.7
22.5°	924.3	906.0	849.6	711.2	655.6	649.3	653.8	761.2	778.5	789.5	801.3
25°	901.4	886.0	813.1	691.1	638.3	631.0	648.4	758.5	768.5	771.3	794.9
27.5°	880.5	860.4	774.9	672.9	617.4	614.6	652.9	746.7	754.0	756.7	782.1
30°	855.0	825.0	732.1	653.8	595.5	594.6	653.8	732.1	730.3	737.5	763.1
32.5°	828.6	772.2	683.8	630.1	574.6	573.7	647.5	710.3	708.5	718.4	737.5
35°	804.1	731.2	618.3	602.8	548.2	549.1	631.9	684.8	685.7	694.8	706.6
37.5°	778.5	695.7	546.4	572.8	522.6	522.6	611.0	661.0	659.2	661.9	678.4
40°	748.5	640.1	482.6	533.6	499.0	496.3	585.5	635.6	629.2	628.3	651.1
42.5°	716.6	579.1	435.3	481.7	471.7	468.1	554.5	604.6	592.8	595.5	624.7
45°	682.0	562.7	398.8	407.1	443.4	440.7	520.8	569.1	560.9	568.2	598.2
47.5°	647.5	530.0	387.0	337.8	413.4	412.5	483.5	534.5	530.0	537.2	569.1
50°	600.0	493.5	386.1	289.6	379.7	383.3	438.9	500.8	500.8	507.2	540.9
52.5°	539.0	448.9	350.6	262.2	340.5	351.5	399.7	471.7	473.5	479.9	509.9
55°	483.5	402.4	325.0	241.3	294.1	317.8	361.5	441.6	445.2	451.7	478.9
57.5°	432.5	335.1	319.6	216.7	251.4	274.1	327.8	412.5	414.3	419.8	446.2
60°	377.9	242.2	293.2	190.3	214.0	231.3	296.8	377.9	384.2	387.9	410.7
62.5°	316.0	175.8	265.8	172.1	195.8	199.4	271.4	345.1	353.3	356.0	369.7
65°	224.9	147.5	225.8	156.6	176.7	177.6	244.0	311.4	318.7	323.2	333.3
67.5°	152.1	120.2	172.1	142.0	162.1	163.0	217.6	272.3	282.3	285.9	292.3
70°	105.6	80.1	127.4	126.5	145.7	147.5	189.4	236.8	245.8	248.6	252.3
72.5°	77.4	64.6	105.6	113.8	128.4	130.3	160.3	196.7	205.8	208.5	210.4
75°	59.2	68.2	85.6	99.3	109.3	110.2	131.2	160.3	166.6	168.5	169.4
77.5°	47.3	63.7	62.8	80.1	89.2	87.4	102.9	123.8	129.3	129.3	129.3
80°	35.5	50.1	47.3	57.4	65.5	63.7	73.8	88.3	90.2	92.0	91.1
82.5°	26.4	31.9	31.9	36.4	43.7	41.9	49.2	57.4	57.4	57.4	59.2
85°	16.4	18.2	14.6	19.1	24.6	23.7	27.3	31.0	31.9	31.9	30.1
87.5°	10.0	8.2	4.5	7.2	11.0	11.0	12.8	13.7	12.8	12.8	12.8
90°	7.3	5.1	2.8	5.1	7.3	7.9	12.3	18.3	21.3	18.9	14.1
92.5°	49.2	30.2	11.2	30.2	49.2	54.0	75.9	105.2	119.8	104.9	75.3
95°	96.5	61.6	26.9	61.6	96.5	105.2	186.8	295.7	350.1	312.5	237.1
97.5°	107.9	77.2	46.4	77.2	107.9	115.6	251.7	433.2	523.9	500.1	452.4
100°	117.3	89.4	61.6	89.4	117.3	124.3	275.3	476.7	577.3	579.0	582.6
102.5°	126.5	100.5	74.4	100.5	126.5	133.0	286.1	490.3	592.4	622.8	683.5
105°	140.3	118.3	96.3	118.3	140.3	145.8	294.1	491.9	590.7	658.8	794.8
107.5°	159.7	139.2	118.7	139.2	159.7	164.8	295.6	470.0	557.1	652.0	841.8
110°	170.8	152.2	133.8	152.2	170.8	175.4	293.4	450.6	529.2	635.2	847.5



TEST NUMBER: P934263

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	183.9	166.3	148.6	166.3	183.9	188.4	293.5	433.7	503.7	612.3	829.5
115°	203.6	187.3	171.0	187.3	203.6	207.6	296.2	414.2	473.2	577.9	787.0
117.5°	222.7	207.9	193.1	207.9	222.7	226.4	301.7	402.1	452.2	546.6	735.4
120°	233.8	219.9	205.9	219.9	233.8	237.3	306.1	397.9	443.8	530.1	702.6
122.5°	246.7	232.6	218.6	232.6	246.7	250.2	312.6	395.7	437.4	515.0	670.5
125°	263.5	250.6	237.9	250.6	263.5	266.7	321.2	394.0	430.4	496.4	628.4
127.5°	279.4	266.5	253.5	266.5	279.4	282.7	329.9	393.0	424.5	481.2	594.4
130°	289.8	275.9	262.0	275.9	289.8	293.3	336.3	393.6	422.3	472.7	573.6
132.5°	298.5	284.6	270.6	284.6	298.5	302.0	341.4	394.0	420.4	465.5	555.8
135°	308.8	296.2	283.5	296.2	308.8	312.0	347.0	393.7	417.0	454.8	530.4
137.5°	321.7	309.2	296.6	309.2	321.7	324.9	355.4	396.0	416.4	448.3	512.2
140°	330.7	319.2	307.6	319.2	330.7	333.6	360.5	396.5	414.5	442.1	497.3
142.5°	337.3	326.6	315.9	326.6	337.3	340.0	364.8	397.9	414.5	438.7	487.2
145°	347.5	338.2	328.8	338.2	347.5	349.8	370.5	397.9	411.7	431.5	471.1
147.5°	359.9	350.7	341.7	350.7	359.9	362.2	378.6	400.6	411.7	427.2	458.5
150°	366.5	358.4	350.1	358.4	366.5	368.6	383.0	402.1	411.7	424.9	451.2
152.5°	371.2	365.0	358.7	365.0	371.2	372.7	385.7	403.0	411.7	422.9	445.4
155°	380.8	376.3	371.7	376.3	380.8	382.0	391.8	405.1	411.7	420.6	438.6
157.5°	390.1	385.6	381.2	385.6	390.1	391.2	398.0	407.1	411.7	418.6	432.6
160°	394.5	391.0	387.6	391.0	394.5	395.4	400.8	408.0	411.7	417.6	429.6
162.5°	399.3	396.6	394.0	396.6	399.3	399.9	403.8	409.0	411.7	416.7	426.8
165°	405.7	403.3	401.0	403.3	405.7	406.3	408.1	410.5	411.7	415.3	422.4
167.5°	409.7	408.5	407.4	408.5	409.7	409.9	411.5	413.5	414.5	416.8	421.5
170°	413.9	412.8	411.7	412.8	413.9	414.2	414.3	414.4	414.5	416.8	421.5
172.5°	414.4	414.2	413.9	414.2	414.4	414.5	414.5	414.5	414.5	416.3	420.0
175°	417.0	417.0	417.0	417.0	417.0	417.0	416.2	415.0	414.5	415.6	418.0
177.5°	417.0	417.0	417.0	417.0	417.0	417.0	416.4	415.5	415.0	415.9	417.8
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



TEST NUMBER: P934263

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	928.8	926.1	929.7	919.6	929.7	926.1	928.8	935.1	929.7	933.3	937.0
5°	815.0	810.4	795.8	784.0	795.8	810.4	815.0	834.1	843.2	859.5	881.4
7.5°	728.5	724.9	721.1	713.9	721.1	724.9	728.5	733.9	743.0	757.6	774.0
10°	709.4	710.3	715.7	714.8	715.7	710.3	709.4	707.5	704.8	707.5	717.5
12.5°	758.5	766.7	796.7	794.9	796.7	766.7	758.5	722.0	697.5	692.9	694.8
15°	815.0	817.7	824.1	825.0	824.1	817.7	815.0	800.4	726.7	694.8	684.8
17.5°	820.4	821.3	825.9	825.9	825.9	821.3	820.4	814.0	789.5	746.7	690.2
20°	815.9	817.7	826.8	828.6	826.8	817.7	815.9	807.7	794.0	778.5	735.7
22.5°	814.0	817.7	825.0	824.1	825.0	817.7	814.0	801.3	789.5	778.5	761.2
25°	805.0	805.0	805.9	806.8	805.9	805.0	805.0	794.9	771.3	768.5	758.5
27.5°	785.9	787.7	793.1	792.2	793.1	787.7	785.9	782.1	756.7	754.0	746.7
30°	768.5	766.7	762.1	758.5	762.1	766.7	768.5	763.1	737.5	730.3	732.1
32.5°	739.4	734.8	730.3	727.6	730.3	734.8	739.4	737.5	718.4	708.5	710.3
35°	704.8	705.7	704.8	702.0	704.8	705.7	704.8	706.6	694.8	685.7	684.8
37.5°	680.2	682.0	681.1	677.4	681.1	682.0	680.2	678.4	661.9	659.2	661.0
40°	654.7	655.6	654.7	652.0	654.7	655.6	654.7	651.1	628.3	629.2	635.6
42.5°	630.1	629.2	626.5	624.7	626.5	629.2	630.1	624.7	595.5	592.8	604.6
45°	601.9	602.8	597.3	594.6	597.3	602.8	601.9	598.2	568.2	560.9	569.1
47.5°	573.7	573.7	569.1	566.4	569.1	573.7	573.7	569.1	537.2	530.0	534.5
50°	543.6	542.7	536.3	535.4	536.3	542.7	543.6	540.9	507.2	500.8	500.8
52.5°	509.0	509.0	509.9	511.8	509.9	509.0	509.0	509.9	479.9	473.5	471.7
55°	478.9	479.9	486.3	488.1	486.3	479.9	478.9	478.9	451.7	445.2	441.6
57.5°	448.0	448.0	452.6	452.6	452.6	448.0	448.0	446.2	419.8	414.3	412.5
60°	412.5	414.3	417.9	417.0	417.9	414.3	412.5	410.7	387.9	384.2	377.9
62.5°	375.2	377.0	377.9	376.1	377.9	377.0	375.2	369.7	356.0	353.3	345.1
65°	336.0	337.8	338.7	336.9	338.7	337.8	336.0	333.3	323.2	318.7	311.4
67.5°	295.9	295.0	294.1	297.8	294.1	295.0	295.9	292.3	285.9	282.3	272.3
70°	255.0	255.0	254.1	255.9	254.1	255.0	255.0	252.3	248.6	245.8	236.8
72.5°	211.3	210.4	214.0	211.3	214.0	210.4	211.3	210.4	208.5	205.8	196.7
75°	168.5	170.3	168.5	171.2	168.5	170.3	168.5	169.4	168.5	166.6	160.3
77.5°	128.4	130.3	128.4	128.4	128.4	130.3	128.4	129.3	129.3	129.3	123.8
80°	91.1	90.2	90.2	89.2	90.2	90.2	91.1	91.1	92.0	90.2	88.3
82.5°	58.3	57.4	57.4	59.2	57.4	57.4	58.3	59.2	57.4	57.4	57.4
85°	31.9	32.8	31.0	31.0	31.0	32.8	31.9	30.1	31.9	31.9	31.0
87.5°	11.9	11.0	11.0	11.0	11.0	11.0	11.9	12.8	12.8	12.8	13.7
90°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	14.1	18.9	21.3	18.3
92.5°	53.1	51.1	42.5	34.1	42.5	51.1	53.1	75.3	104.9	119.8	105.2
95°	180.5	174.1	148.4	122.8	148.4	174.1	180.5	237.1	312.5	350.1	295.7
97.5°	416.6	404.4	355.7	307.0	355.7	404.4	416.6	452.4	500.1	523.9	433.2
100°	585.2	570.7	512.6	454.5	512.6	570.7	585.2	582.6	579.0	577.3	476.7
102.5°	729.0	716.6	666.8	617.0	666.8	716.6	729.0	683.5	622.8	592.4	490.3
105°	896.9	890.2	863.5	836.7	863.5	890.2	896.9	794.8	658.8	590.7	491.9
107.5°	984.2	985.8	992.2	998.8	992.2	985.8	984.2	841.8	652.0	557.1	470.0
110°	1006.6	1013.6	1041.4	1069.3	1041.4	1013.6	1006.6	847.5	635.2	529.2	450.6



TEST NUMBER: P934263

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	992.3	1003.0	1045.8	1088.5	1045.8	1003.0	992.3	829.5	612.3	503.7	433.7
115°	943.9	958.7	1018.0	1077.4	1018.0	958.7	943.9	787.0	577.9	473.2	414.2
117.5°	877.0	893.5	959.3	1025.1	959.3	893.5	877.0	735.4	546.6	452.2	402.1
120°	831.9	848.0	911.9	975.9	911.9	848.0	831.9	702.6	530.1	443.8	397.9
122.5°	786.9	802.7	865.8	928.8	865.8	802.7	786.9	670.5	515.0	437.4	395.7
125°	727.3	741.8	799.9	858.0	799.9	741.8	727.3	628.4	496.4	430.4	394.0
127.5°	679.4	691.6	740.7	789.8	740.7	691.6	679.4	594.4	481.2	424.5	393.0
130°	649.3	660.6	705.8	751.1	705.8	660.6	649.3	573.6	472.7	422.3	393.6
132.5°	623.5	633.6	674.2	714.7	674.2	633.6	623.5	555.8	465.5	420.4	394.0
135°	587.1	595.9	630.8	665.7	630.8	595.9	587.1	530.4	454.8	417.0	393.7
137.5°	560.2	567.4	596.0	624.7	596.0	567.4	560.2	512.2	448.3	416.4	396.0
140°	538.7	545.4	572.1	598.9	572.1	545.4	538.7	497.3	442.1	414.5	396.5
142.5°	523.5	529.3	552.3	575.3	552.3	529.3	523.5	487.2	438.7	414.5	397.9
145°	500.9	505.3	522.7	540.1	522.7	505.3	500.9	471.1	431.5	411.7	397.9
147.5°	481.9	485.5	499.9	514.3	499.9	485.5	481.9	458.5	427.2	411.7	400.6
150°	471.0	473.9	485.6	497.3	485.6	473.9	471.0	451.2	424.9	411.7	402.1
152.5°	462.3	464.4	473.3	482.2	473.3	464.4	462.3	445.4	422.9	411.7	403.0
155°	451.9	453.4	459.3	465.1	459.3	453.4	451.9	438.6	420.6	411.7	405.1
157.5°	443.0	444.0	448.1	452.2	448.1	444.0	443.0	432.6	418.6	411.7	407.1
160°	438.6	439.1	441.4	443.8	441.4	439.1	438.6	429.6	417.6	411.7	408.0
162.5°	434.3	434.8	437.1	439.4	437.1	434.8	434.3	426.8	416.7	411.7	409.0
165°	427.9	428.5	430.9	433.2	430.9	428.5	427.9	422.4	415.3	411.7	410.5
167.5°	425.1	425.3	426.3	427.3	426.3	425.3	425.1	421.5	416.8	414.5	413.5
170°	425.1	425.1	425.1	425.1	425.1	425.1	425.1	421.5	416.8	414.5	414.4
172.5°	422.8	422.6	421.7	420.9	421.7	422.6	422.8	420.0	416.3	414.5	414.5
175°	419.7	419.7	419.7	419.7	419.7	419.7	419.7	418.0	415.6	414.5	415.0
177.5°	419.2	418.9	418.0	417.0	418.0	418.9	419.2	417.8	415.9	415.0	415.5
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



TEST NUMBER: P934263

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	962.5	962.5	962.5	962.5	962.5
2.5°	950.6	955.2	957.9	961.6	970.7
5°	914.2	931.5	937.0	950.6	967.0
7.5°	834.1	886.9	901.4	934.2	959.7
10°	756.7	809.5	835.0	912.4	950.6
12.5°	717.5	748.5	765.8	874.1	937.9
15°	692.9	714.8	727.6	823.2	923.4
17.5°	673.8	689.3	698.4	773.1	903.3
20°	661.9	669.3	677.4	736.6	880.5
22.5°	653.8	649.3	655.6	711.2	849.6
25°	648.4	631.0	638.3	691.1	813.1
27.5°	652.9	614.6	617.4	672.9	774.9
30°	653.8	594.6	595.5	653.8	732.1
32.5°	647.5	573.7	574.6	630.1	683.8
35°	631.9	549.1	548.2	602.8	618.3
37.5°	611.0	522.6	522.6	572.8	546.4
40°	585.5	496.3	499.0	533.6	482.6
42.5°	554.5	468.1	471.7	481.7	435.3
45°	520.8	440.7	443.4	407.1	398.8
47.5°	483.5	412.5	413.4	337.8	387.0
50°	438.9	383.3	379.7	289.6	386.1
52.5°	399.7	351.5	340.5	262.2	350.6
55°	361.5	317.8	294.1	241.3	325.0
57.5°	327.8	274.1	251.4	216.7	319.6
60°	296.8	231.3	214.0	190.3	293.2
62.5°	271.4	199.4	195.8	172.1	265.8
65°	244.0	177.6	176.7	156.6	225.8
67.5°	217.6	163.0	162.1	142.0	172.1
70°	189.4	147.5	145.7	126.5	127.4
72.5°	160.3	130.3	128.4	113.8	105.6
75°	131.2	110.2	109.3	99.3	85.6
77.5°	102.9	87.4	89.2	80.1	62.8
80°	73.8	63.7	65.5	57.4	47.3
82.5°	49.2	41.9	43.7	36.4	31.9
85°	27.3	23.7	24.6	19.1	14.6
87.5°	12.8	11.0	11.0	7.2	4.5
90°	12.3	7.9	7.3	5.1	2.8
92.5°	75.9	54.0	49.2	30.2	11.2
95°	186.8	105.2	96.5	61.6	26.9
97.5°	251.7	115.6	107.9	77.2	46.4
100°	275.3	124.3	117.3	89.4	61.6
102.5°	286.1	133.0	126.5	100.5	74.4
105°	294.1	145.8	140.3	118.3	96.3
107.5°	295.6	164.8	159.7	139.2	118.7
110°	293.4	175.4	170.8	152.2	133.8



TEST NUMBER: P934263

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	293.5	188.4	183.9	166.3	148.6
115°	296.2	207.6	203.6	187.3	171.0
117.5°	301.7	226.4	222.7	207.9	193.1
120°	306.1	237.3	233.8	219.9	205.9
122.5°	312.6	250.2	246.7	232.6	218.6
125°	321.2	266.7	263.5	250.6	237.9
127.5°	329.9	282.7	279.4	266.5	253.5
130°	336.3	293.3	289.8	275.9	262.0
132.5°	341.4	302.0	298.5	284.6	270.6
135°	347.0	312.0	308.8	296.2	283.5
137.5°	355.4	324.9	321.7	309.2	296.6
140°	360.5	333.6	330.7	319.2	307.6
142.5°	364.8	340.0	337.3	326.6	315.9
145°	370.5	349.8	347.5	338.2	328.8
147.5°	378.6	362.2	359.9	350.7	341.7
150°	383.0	368.6	366.5	358.4	350.1
152.5°	385.7	372.7	371.2	365.0	358.7
155°	391.8	382.0	380.8	376.3	371.7
157.5°	398.0	391.2	390.1	385.6	381.2
160°	400.8	395.4	394.5	391.0	387.6
162.5°	403.8	399.9	399.3	396.6	394.0
165°	408.1	406.3	405.7	403.3	401.0
167.5°	411.5	409.9	409.7	408.5	407.4
170°	414.3	414.2	413.9	412.8	411.7
172.5°	414.5	414.5	414.4	414.2	413.9
175°	416.2	417.0	417.0	417.0	417.0
177.5°	416.4	417.0	417.0	417.0	417.0
180°	417.0	417.0	417.0	417.0	417.0



TEST NUMBER: P934263
 CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-4000K

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	10.82	11.66	11.79	12.65	13.95	13.64	14.48	14.61	15.47	16.77
	3H	11.29	12.05	12.28	13.04	14.36	14.98	15.74	15.97	16.73	18.06
	4H	11.48	12.20	12.48	13.20	14.53	15.42	16.14	16.42	17.14	18.47
	6H	11.60	12.26	12.61	13.26	14.60	15.71	16.37	16.72	17.37	18.71
	8H	11.60	12.23	12.61	13.25	14.59	15.78	16.41	16.79	17.43	18.77
	12H	11.57	12.17	12.59	13.18	14.55	15.82	16.41	16.84	17.43	18.79
4H	2H	11.84	12.56	12.85	13.56	14.89	14.05	14.76	15.05	15.76	17.09
	3H	12.87	13.47	13.88	14.50	15.84	15.55	16.15	16.56	17.17	18.52
	4H	13.15	13.69	14.17	14.71	16.08	16.08	16.62	17.10	17.64	19.01
	6H	13.27	13.74	14.30	14.78	16.15	16.44	16.91	17.47	17.95	19.31
	8H	13.27	13.71	14.31	14.75	16.13	16.54	16.98	17.58	18.02	19.40
	12H	13.24	13.64	14.29	14.69	16.07	16.60	16.99	17.65	18.05	19.43
8H	4H	13.60	14.03	14.63	15.07	16.45	16.20	16.64	17.23	17.67	19.05
	6H	13.86	14.22	14.91	15.30	16.67	16.63	16.99	17.69	18.07	19.45
	8H	13.90	14.22	14.96	15.28	16.68	16.78	17.10	17.85	18.17	19.56
	12H	13.88	14.16	14.95	15.22	16.66	16.88	17.16	17.95	18.22	19.66
12H	4H	13.60	14.00	14.65	15.05	16.43	16.16	16.56	17.21	17.61	18.99
	6H	13.92	14.24	14.98	15.30	16.69	16.63	16.95	17.69	18.01	19.41
	8H	13.98	14.26	15.05	15.32	16.76	16.79	17.07	17.86	18.13	19.57