

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: P934358

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934358
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

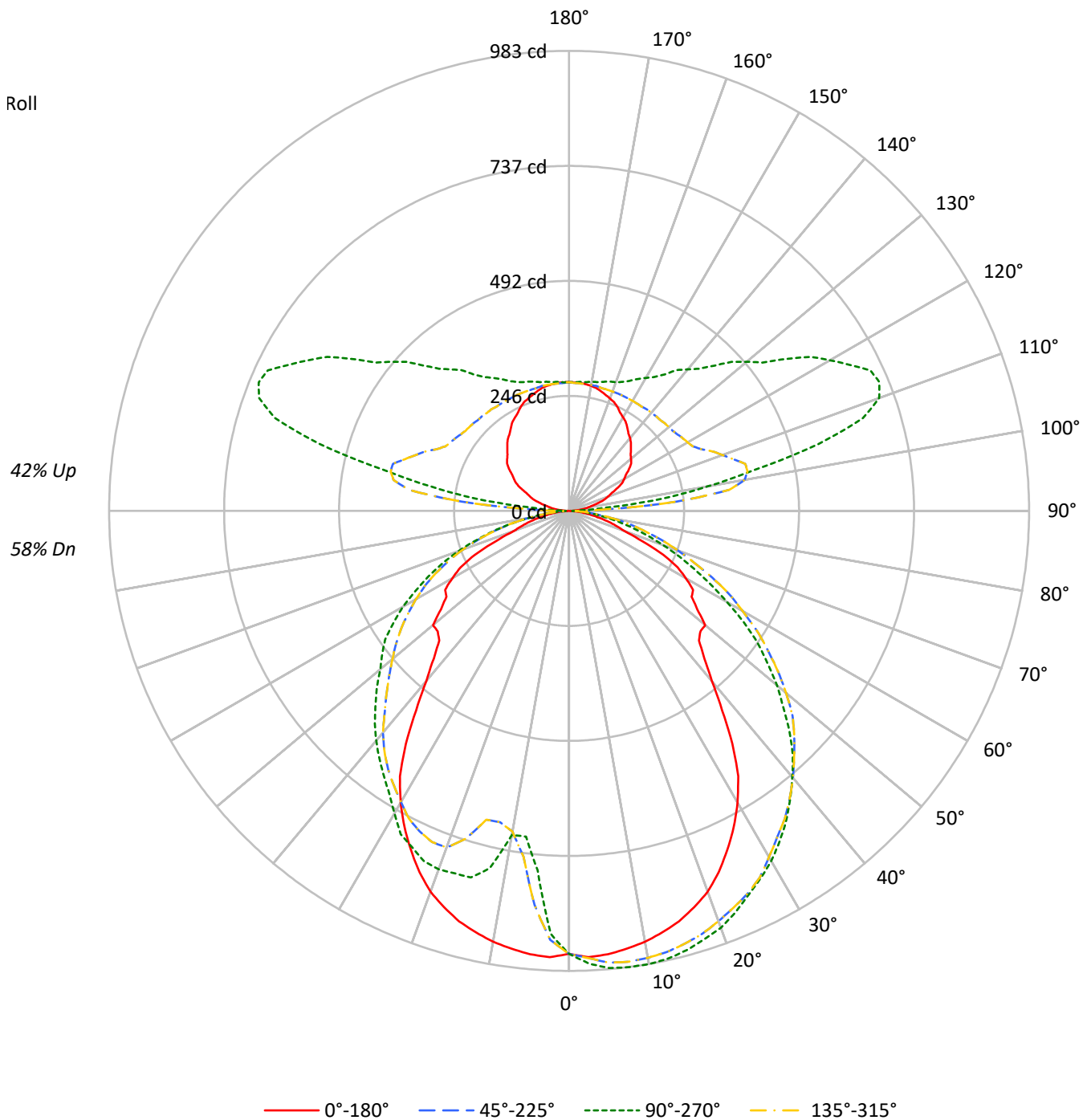
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4237.5 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 36.4
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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8782	8782	8782	8782
5°	8838	8866	8838	6971
10°	8769	8733	8769	6243
15°	8664	8544	8664	7134
20°	8473	8319	8473	7149
25°	8092	7992	8092	6997
30°	7604	7721	7604	6665
35°	6769	7378	6769	6300
40°	5631	6974	5631	6023
45°	5021	6501	5021	5706
50°	5323	5937	5323	5387
55°	4994	5329	4994	5203
60°	5128	4527	5128	4765
65°	4626	3740	4626	4183
70°	3181	2981	3181	3505
75°	2761	2204	2761	2638
80°	2181	1457	2181	1586
85°	1184	771	1184	655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	2.0
10°-20°	242.6	5.7
20°-30°	375.0	8.8
30°-40°	447.6	10.6
40°-50°	450.3	10.6
50°-60°	391.8	9.2
60°-70°	277.8	6.6
70°-80°	146.9	3.5
80°-90°	37.6	0.9
90°-100°	134.0	3.2
100°-110°	352.4	8.3
110°-120°	365.4	8.6
120°-130°	293.1	6.9
130°-140°	230.0	5.4
140°-150°	176.5	4.2
150°-160°	127.1	3.0
160°-170°	77.8	1.8
170°-180°	26.3	0.6
0°-30°	703.0	16.6
0°-40°	1150.6	27.2
0°-60°	1992.7	47.0
0°-90°	2455.1	57.9
90°-120°	851.7	20.1
90°-150°	1551.3	36.6
90°-180°	1782.0	42.1
0°-180°	4237.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	946	946	946	946	946	
5°	951	980	951	771	951	90
15°	908	972	908	811	908	255
25°	800	906	800	793	800	367
35°	608	809	608	690	608	376
45°	392	666	392	585	392	314
55°	320	492	320	480	320	294
65°	222	296	222	331	222	212
75°	84	141	84	168	84	89
85°	14	36	14	30	14	19
90°	2	7	2	7	2	2
95°	18	81	18	81	18	20
105°	64	552	64	552	64	67
115°	113	710	113	710	113	111
125°	157	566	157	566	157	139
135°	187	439	187	439	187	145
145°	217	356	217	356	217	136
155°	245	307	245	307	245	113
165°	264	286	264	286	264	75
175°	275	277	275	277	275	26
180°	275	275	275	275	275	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	954.5	954.5	960.0	961.7	961.7	959.1	956.4	959.1	967.1	969.8	968.9
5°	950.9	958.2	968.0	969.8	971.6	970.7	968.9	970.7	979.7	981.4	982.3
7.5°	943.7	957.3	969.8	972.5	975.2	972.5	971.6	973.4	982.3	984.1	984.1
10°	934.8	953.6	968.0	969.8	972.5	969.8	969.8	973.4	982.3	984.1	985.0
12.5°	922.3	948.2	961.7	963.5	967.1	966.2	965.3	968.9	977.9	979.7	979.7
15°	907.9	938.4	950.9	952.7	959.1	957.3	957.3	960.8	970.7	973.4	972.5
17.5°	888.2	925.8	940.2	942.9	947.3	946.4	947.3	950.9	960.0	961.7	962.6
20°	865.9	908.8	925.8	928.5	933.0	933.0	933.0	937.5	946.4	950.0	950.0
22.5°	835.4	890.9	908.8	910.6	916.0	916.0	917.8	924.1	932.1	933.0	933.0
25°	799.6	871.2	886.4	891.8	897.2	899.9	902.6	906.1	908.8	907.9	908.8
27.5°	762.0	846.2	865.9	869.4	876.6	879.3	882.9	883.8	884.7	887.3	885.6
30°	719.9	811.2	840.8	844.4	856.0	857.8	854.2	856.0	860.5	862.3	864.1
32.5°	672.5	759.3	814.8	822.9	833.6	828.3	827.4	830.0	837.2	837.2	839.0
35°	608.0	719.0	790.7	797.8	805.9	799.6	803.2	804.1	808.6	811.2	810.3
37.5°	537.3	684.1	765.6	771.0	777.2	769.2	774.5	777.2	780.8	779.0	779.0
40°	474.6	629.5	736.0	739.6	745.0	738.7	744.1	745.9	747.7	745.9	745.0
42.5°	428.0	569.5	704.7	709.2	705.6	710.1	711.9	715.4	712.8	709.2	709.2
45°	392.2	553.4	670.7	676.1	670.7	677.8	680.5	680.5	672.5	670.7	669.8
47.5°	380.6	521.2	636.7	636.7	634.0	642.9	647.4	641.1	633.1	630.4	630.4
50°	379.7	485.3	590.1	586.5	599.1	609.8	605.3	599.1	592.8	582.9	582.9
52.5°	344.8	441.5	530.1	543.5	563.2	569.5	562.3	556.1	545.3	540.9	537.3
55°	319.7	395.8	475.5	502.4	523.0	531.0	517.6	511.3	495.2	492.5	490.7
57.5°	314.3	329.6	425.4	459.4	484.5	483.6	475.5	463.9	450.4	447.7	446.9
60°	288.3	238.2	371.6	411.9	437.9	435.2	428.0	417.3	404.8	403.0	401.2
62.5°	261.4	172.8	310.7	356.4	393.1	392.2	386.0	369.9	360.9	356.4	352.8
65°	222.0	145.0	221.1	296.3	349.3	351.1	337.6	326.0	316.0	310.7	309.8
67.5°	169.2	118.2	149.5	247.1	307.1	305.3	288.3	282.9	270.4	267.7	262.3
70°	125.3	78.8	103.9	200.5	265.9	261.4	248.0	241.7	230.1	223.8	220.2
72.5°	103.9	63.6	76.1	155.8	223.8	218.5	206.8	199.7	189.8	184.4	180.9
75°	84.2	67.1	58.2	115.5	181.7	178.2	167.4	160.3	152.2	145.0	145.9
77.5°	61.8	62.7	46.6	85.1	144.1	138.8	132.5	123.6	120.0	112.8	112.8
80°	46.6	49.2	34.9	58.2	103.9	103.9	98.5	92.2	85.9	82.4	82.4
82.5°	31.3	31.3	26.0	36.7	70.7	68.0	64.5	62.7	59.1	57.3	57.3
85°	14.3	17.9	16.1	22.4	38.5	40.3	40.3	38.5	37.6	35.8	36.7
87.5°	4.5	8.1	9.8	12.5	19.7	20.6	21.5	21.5	21.5	22.4	22.4
90°	1.9	3.3	4.8	5.2	8.1	12.1	14.1	12.4	9.3	7.0	7.0
92.5°	7.3	19.9	32.5	35.6	50.0	69.3	79.0	69.2	49.7	35.1	33.7
95°	17.7	40.6	63.7	69.4	123.2	194.9	230.8	205.9	156.2	119.0	114.8
97.5°	30.6	50.9	71.1	76.2	165.9	285.6	345.4	329.7	298.3	274.8	266.7
100°	40.6	58.9	77.4	81.9	181.5	314.3	380.7	381.9	384.2	385.9	376.3
102.5°	49.1	66.3	83.4	87.7	188.6	323.3	390.6	410.7	450.7	480.7	472.5
105°	63.5	78.0	92.5	96.2	193.9	324.4	389.6	434.4	524.1	591.4	587.1
107.5°	78.3	91.8	105.3	108.7	194.9	310.0	367.4	430.0	555.2	649.0	650.1
110°	88.2	100.4	112.6	115.7	193.5	297.2	349.0	418.9	558.9	663.8	668.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	97.9	109.6	121.2	124.2	193.5	286.0	332.2	403.8	546.9	654.4	661.5
115°	112.7	123.5	134.2	136.9	195.3	273.1	312.0	381.0	518.9	622.4	632.2
117.5°	127.3	137.1	146.8	149.2	198.9	265.1	298.2	360.5	484.9	578.3	589.1
120°	135.8	145.0	154.2	156.5	201.9	262.4	292.7	349.5	463.3	548.6	559.2
122.5°	144.1	153.5	162.7	165.0	206.1	261.0	288.4	339.6	442.1	518.9	529.3
125°	156.9	165.3	173.7	175.8	211.8	259.8	283.8	327.3	414.4	479.6	489.2
127.5°	167.2	175.7	184.3	186.4	217.6	259.2	280.0	317.3	392.0	448.0	456.1
130°	172.7	181.9	191.1	193.4	221.8	259.6	278.4	311.7	378.3	428.1	435.6
132.5°	178.4	187.7	196.8	199.1	225.2	259.8	277.2	306.9	366.5	411.1	417.8
135°	186.9	195.3	203.7	205.7	228.8	259.6	275.0	299.8	349.7	387.1	392.9
137.5°	195.6	203.9	212.2	214.2	234.4	261.2	274.6	295.6	337.8	369.4	374.2
140°	202.8	210.4	218.1	220.0	237.7	261.4	273.2	291.5	328.0	355.3	359.6
142.5°	208.3	215.4	222.4	224.2	240.6	262.3	273.2	289.3	321.2	345.2	349.0
145°	216.8	222.9	229.1	230.6	244.2	262.4	271.5	284.5	310.7	330.3	333.1
147.5°	225.4	231.3	237.3	238.8	249.7	264.2	271.5	281.8	302.3	317.7	320.2
150°	230.8	236.2	241.6	243.0	252.5	265.1	271.5	280.1	297.5	310.6	312.6
152.5°	236.5	240.7	244.8	245.8	254.4	265.7	271.5	278.9	293.8	304.9	306.3
155°	245.0	248.1	251.1	251.9	258.4	267.1	271.5	277.4	289.2	298.0	299.0
157.5°	251.3	254.3	257.2	257.9	262.4	268.4	271.5	276.0	285.2	292.1	292.9
160°	255.6	257.8	260.2	260.7	264.3	269.0	271.5	275.4	283.3	289.2	289.5
162.5°	259.8	261.5	263.2	263.7	266.3	269.8	271.5	274.8	281.4	286.4	286.8
165°	264.5	266.0	267.6	268.0	269.1	270.7	271.5	273.8	278.5	282.1	282.5
167.5°	268.7	269.4	270.1	270.3	271.3	272.6	273.2	274.9	278.0	280.3	280.5
170°	271.5	272.2	272.9	273.1	273.2	273.2	273.2	274.9	278.0	280.3	280.3
172.5°	272.9	273.1	273.2	273.2	273.2	273.2	273.2	274.5	276.9	278.8	278.6
175°	275.0	275.0	275.0	275.0	274.4	273.6	273.2	274.1	275.7	276.8	276.8
177.5°	275.0	275.0	275.0	275.0	274.5	274.0	273.7	274.3	275.6	276.5	276.3
180°	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	970.7	968.0	970.7	968.9	969.8	967.1	959.1	956.4	959.1	961.7	961.7
5°	982.3	980.5	982.3	982.3	981.4	979.7	970.7	968.9	970.7	971.6	969.8
7.5°	985.9	983.2	985.9	984.1	984.1	982.3	973.4	971.6	972.5	975.2	972.5
10°	985.9	983.2	985.9	985.0	984.1	982.3	973.4	969.8	969.8	972.5	969.8
12.5°	981.4	979.7	981.4	979.7	979.7	977.9	968.9	965.3	966.2	967.1	963.5
15°	974.3	971.6	974.3	972.5	973.4	970.7	960.8	957.3	957.3	959.1	952.7
17.5°	963.5	960.0	963.5	962.6	961.7	960.0	950.9	947.3	946.4	947.3	942.9
20°	950.9	948.2	950.9	950.0	950.0	946.4	937.5	933.0	933.0	933.0	928.5
22.5°	931.2	928.5	931.2	933.0	933.0	932.1	924.1	917.8	916.0	916.0	910.6
25°	908.8	906.1	908.8	908.8	907.9	908.8	906.1	902.6	899.9	897.2	891.8
27.5°	887.3	885.6	887.3	885.6	887.3	884.7	883.8	882.9	879.3	876.6	869.4
30°	865.9	864.1	865.9	864.1	862.3	860.5	856.0	854.2	857.8	856.0	844.4
32.5°	839.0	837.2	839.0	839.0	837.2	837.2	830.0	827.4	828.3	833.6	822.9
35°	811.2	808.6	811.2	810.3	811.2	808.6	804.1	803.2	799.6	805.9	797.8
37.5°	779.0	776.3	779.0	779.0	779.0	780.8	777.2	774.5	769.2	777.2	771.0
40°	745.9	742.3	745.9	745.0	745.9	747.7	745.9	744.1	738.7	745.0	739.6
42.5°	708.3	707.4	708.3	709.2	709.2	712.8	715.4	711.9	710.1	705.6	709.2
45°	668.0	666.2	668.0	669.8	670.7	672.5	680.5	680.5	677.8	670.7	676.1
47.5°	625.0	620.5	625.0	630.4	630.4	633.1	641.1	647.4	642.9	634.0	636.7
50°	579.4	580.3	579.4	582.9	582.9	592.8	599.1	605.3	609.8	599.1	586.5
52.5°	534.6	533.7	534.6	537.3	540.9	545.3	556.1	562.3	569.5	563.2	543.5
55°	489.8	491.6	489.8	490.7	492.5	495.2	511.3	517.6	531.0	523.0	502.4
57.5°	445.1	442.4	445.1	446.9	447.7	450.4	463.9	475.5	483.6	484.5	459.4
60°	393.1	389.6	393.1	401.2	403.0	404.8	417.3	428.0	435.2	437.9	411.9
62.5°	347.5	341.2	347.5	352.8	356.4	360.9	369.9	386.0	392.2	393.1	356.4
65°	299.0	296.3	299.0	309.8	310.7	316.0	326.0	337.6	351.1	349.3	296.3
67.5°	255.2	255.2	255.2	262.3	267.7	270.4	282.9	288.3	305.3	307.1	247.1
70°	214.9	214.0	214.9	220.2	223.8	230.1	241.7	248.0	261.4	265.9	200.5
72.5°	176.4	175.5	176.4	180.9	184.4	189.8	199.7	206.8	218.5	223.8	155.8
75°	142.4	140.6	142.4	145.9	145.0	152.2	160.3	167.4	178.2	181.7	115.5
77.5°	109.2	109.2	109.2	112.8	112.8	120.0	123.6	132.5	138.8	144.1	85.1
80°	81.5	80.6	81.5	82.4	82.4	85.9	92.2	98.5	103.9	103.9	58.2
82.5°	57.3	55.5	57.3	57.3	57.3	59.1	62.7	64.5	68.0	70.7	36.7
85°	35.8	35.8	35.8	36.7	35.8	37.6	38.5	40.3	40.3	38.5	22.4
87.5°	23.3	22.4	23.3	22.4	22.4	21.5	21.5	21.5	20.6	19.7	12.5
90°	7.0	7.0	7.0	7.0	7.0	9.3	12.4	14.1	12.1	8.1	5.2
92.5°	28.1	22.5	28.1	33.7	35.1	49.7	69.2	79.0	69.3	50.0	35.6
95°	97.9	81.0	97.9	114.8	119.0	156.2	205.9	230.8	194.9	123.2	69.4
97.5°	234.6	202.4	234.6	266.7	274.8	298.3	329.7	345.4	285.6	165.9	76.2
100°	338.0	299.7	338.0	376.3	385.9	384.2	381.9	380.7	314.3	181.5	81.9
102.5°	439.7	406.9	439.7	472.5	480.7	450.7	410.7	390.6	323.3	188.6	87.7
105°	569.4	551.8	569.4	587.1	591.4	524.1	434.4	389.6	324.4	193.9	96.2
107.5°	654.3	658.6	654.3	650.1	649.0	555.2	430.0	367.4	310.0	194.9	108.7
110°	686.7	705.1	686.7	668.4	663.8	558.9	418.9	349.0	297.2	193.5	115.7



TEST NUMBER: P934358

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	689.7	717.9	689.7	661.5	654.4	546.9	403.8	332.2	286.0	193.5	124.2
115°	671.3	710.4	671.3	632.2	622.4	518.9	381.0	312.0	273.1	195.3	136.9
117.5°	632.5	676.0	632.5	589.1	578.3	484.9	360.5	298.2	265.1	198.9	149.2
120°	601.3	643.5	601.3	559.2	548.6	463.3	349.5	292.7	262.4	201.9	156.5
122.5°	570.9	612.5	570.9	529.3	518.9	442.1	339.6	288.4	261.0	206.1	165.0
125°	527.4	565.7	527.4	489.2	479.6	414.4	327.3	283.8	259.8	211.8	175.8
127.5°	488.4	520.7	488.4	456.1	448.0	392.0	317.3	280.0	259.2	217.6	186.4
130°	465.5	495.3	465.5	435.6	428.1	378.3	311.7	278.4	259.6	221.8	193.4
132.5°	444.5	471.3	444.5	417.8	411.1	366.5	306.9	277.2	259.8	225.2	199.1
135°	416.0	439.0	416.0	392.9	387.1	349.7	299.8	275.0	259.6	228.8	205.7
137.5°	393.0	411.8	393.0	374.2	369.4	337.8	295.6	274.6	261.2	234.4	214.2
140°	377.3	394.9	377.3	359.6	355.3	328.0	291.5	273.2	261.4	237.7	220.0
142.5°	364.2	379.4	364.2	349.0	345.2	321.2	289.3	273.2	262.3	240.6	224.2
145°	344.7	356.2	344.7	333.1	330.3	310.7	284.5	271.5	262.4	244.2	230.6
147.5°	329.7	339.1	329.7	320.2	317.7	302.3	281.8	271.5	264.2	249.7	238.8
150°	320.3	328.0	320.3	312.6	310.6	297.5	280.1	271.5	265.1	252.5	243.0
152.5°	312.1	317.9	312.1	306.3	304.9	293.8	278.9	271.5	265.7	254.4	245.8
155°	302.9	306.7	302.9	299.0	298.0	289.2	277.4	271.5	267.1	258.4	251.9
157.5°	295.5	298.2	295.5	292.9	292.1	285.2	276.0	271.5	268.4	262.4	257.9
160°	291.2	292.7	291.2	289.5	289.2	283.3	275.4	271.5	269.0	264.3	260.7
162.5°	288.3	289.7	288.3	286.8	286.4	281.4	274.8	271.5	269.8	266.3	263.7
165°	284.1	285.7	284.1	282.5	282.1	278.5	273.8	271.5	270.7	269.1	268.0
167.5°	281.1	281.8	281.1	280.5	280.3	278.0	274.9	273.2	272.6	271.3	270.3
170°	280.3	280.3	280.3	280.3	280.3	278.0	274.9	273.2	273.2	273.2	273.1
172.5°	278.1	277.5	278.1	278.6	278.8	276.9	274.5	273.2	273.2	273.2	273.2
175°	276.8	276.8	276.8	276.8	276.8	275.7	274.1	273.2	273.6	274.4	275.0
177.5°	275.7	275.0	275.7	276.3	276.5	275.6	274.3	273.7	274.0	274.5	275.0
180°	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0



TEST NUMBER: P934358

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	960.0	954.5	954.5	945.5	942.0	939.3	934.8	921.4	917.8	914.2	919.6
5°	968.0	958.2	950.9	934.8	921.4	916.0	899.0	866.8	845.3	829.1	820.2
7.5°	969.8	957.3	943.7	918.7	886.4	872.1	820.2	761.1	745.0	730.7	721.7
10°	968.0	953.6	934.8	897.2	821.1	796.0	744.1	705.6	695.7	693.1	695.7
12.5°	961.7	948.2	922.3	859.6	753.0	736.0	705.6	683.2	681.4	685.9	710.1
15°	950.9	938.4	907.9	809.5	715.4	702.9	681.4	673.4	683.2	714.5	787.1
17.5°	940.2	925.8	888.2	760.2	686.8	677.8	662.6	678.7	734.2	776.3	800.5
20°	925.8	908.8	865.9	724.4	666.2	658.1	651.0	723.5	765.6	780.8	794.2
22.5°	908.8	890.9	835.4	699.3	644.7	638.4	642.9	748.6	765.6	776.3	788.0
25°	886.4	871.2	799.6	679.6	627.7	620.5	637.6	745.9	755.7	758.4	781.7
27.5°	865.9	846.2	762.0	661.7	607.1	604.4	642.0	734.2	741.4	744.1	769.2
30°	840.8	811.2	719.9	642.9	585.6	584.7	642.9	719.9	718.1	725.3	750.4
32.5°	814.8	759.3	672.5	619.6	565.0	564.1	636.7	698.4	696.6	706.5	725.3
35°	790.7	719.0	608.0	592.8	539.1	540.0	621.4	673.4	674.3	683.2	694.9
37.5°	765.6	684.1	537.3	563.2	514.0	514.0	600.8	650.1	648.3	651.0	667.1
40°	736.0	629.5	474.6	524.7	490.7	488.0	575.8	625.0	618.8	617.9	640.2
42.5°	704.7	569.5	428.0	473.7	463.9	460.3	545.3	594.6	582.9	585.6	614.3
45°	670.7	553.4	392.2	400.3	436.1	433.4	512.2	559.7	551.6	558.8	588.3
47.5°	636.7	521.2	380.6	332.3	406.6	405.7	475.5	525.6	521.2	528.3	559.7
50°	590.1	485.3	379.7	284.7	373.4	377.0	431.6	492.5	492.5	498.8	531.9
52.5°	530.1	441.5	344.8	257.8	334.9	345.7	393.1	463.9	465.7	471.9	501.5
55°	475.5	395.8	319.7	237.3	289.2	312.5	355.5	434.3	437.9	444.2	471.0
57.5°	425.4	329.6	314.3	213.1	247.1	269.5	322.4	405.7	407.5	412.8	438.8
60°	371.6	238.2	288.3	187.1	210.4	227.4	291.9	371.6	377.9	381.5	403.9
62.5°	310.7	172.8	261.4	169.2	192.5	196.1	266.8	339.4	347.5	350.2	363.6
65°	221.1	145.0	222.0	154.0	173.7	174.6	239.9	306.2	313.4	317.8	327.8
67.5°	149.5	118.2	169.2	139.7	159.4	160.3	214.0	267.7	277.5	281.1	287.4
70°	103.9	78.8	125.3	124.4	143.2	145.0	186.2	232.8	241.7	244.4	248.0
72.5°	76.1	63.6	103.9	111.9	126.2	128.0	157.6	193.4	202.3	205.0	206.8
75°	58.2	67.1	84.2	97.6	107.4	108.3	128.9	157.6	163.8	165.6	166.5
77.5°	46.6	62.7	61.8	78.8	87.7	85.9	101.2	121.8	127.1	127.1	127.1
80°	34.9	49.2	46.6	56.4	64.5	62.7	72.5	86.8	88.6	90.4	89.5
82.5°	26.0	31.3	31.3	35.8	43.0	41.2	48.3	56.4	56.4	56.4	58.2
85°	16.1	17.9	14.3	18.8	24.2	23.3	26.9	30.4	31.3	31.3	29.5
87.5°	9.8	8.1	4.5	7.2	10.7	10.7	12.5	13.4	12.5	12.5	12.5
90°	4.8	3.3	1.9	3.3	4.8	5.2	8.1	12.1	14.1	12.4	9.3
92.5°	32.5	19.9	7.3	19.9	32.5	35.6	50.0	69.3	79.0	69.2	49.7
95°	63.7	40.6	17.7	40.6	63.7	69.4	123.2	194.9	230.8	205.9	156.2
97.5°	71.1	50.9	30.6	50.9	71.1	76.2	165.9	285.6	345.4	329.7	298.3
100°	77.4	58.9	40.6	58.9	77.4	81.9	181.5	314.3	380.7	381.9	384.2
102.5°	83.4	66.3	49.1	66.3	83.4	87.7	188.6	323.3	390.6	410.7	450.7
105°	92.5	78.0	63.5	78.0	92.5	96.2	193.9	324.4	389.6	434.4	524.1
107.5°	105.3	91.8	78.3	91.8	105.3	108.7	194.9	310.0	367.4	430.0	555.2
110°	112.6	100.4	88.2	100.4	112.6	115.7	193.5	297.2	349.0	418.9	558.9



TEST NUMBER: P934358

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	121.2	109.6	97.9	109.6	121.2	124.2	193.5	286.0	332.2	403.8	546.9
115°	134.2	123.5	112.7	123.5	134.2	136.9	195.3	273.1	312.0	381.0	518.9
117.5°	146.8	137.1	127.3	137.1	146.8	149.2	198.9	265.1	298.2	360.5	484.9
120°	154.2	145.0	135.8	145.0	154.2	156.5	201.9	262.4	292.7	349.5	463.3
122.5°	162.7	153.5	144.1	153.5	162.7	165.0	206.1	261.0	288.4	339.6	442.1
125°	173.7	165.3	156.9	165.3	173.7	175.8	211.8	259.8	283.8	327.3	414.4
127.5°	184.3	175.7	167.2	175.7	184.3	186.4	217.6	259.2	280.0	317.3	392.0
130°	191.1	181.9	172.7	181.9	191.1	193.4	221.8	259.6	278.4	311.7	378.3
132.5°	196.8	187.7	178.4	187.7	196.8	199.1	225.2	259.8	277.2	306.9	366.5
135°	203.7	195.3	186.9	195.3	203.7	205.7	228.8	259.6	275.0	299.8	349.7
137.5°	212.2	203.9	195.6	203.9	212.2	214.2	234.4	261.2	274.6	295.6	337.8
140°	218.1	210.4	202.8	210.4	218.1	220.0	237.7	261.4	273.2	291.5	328.0
142.5°	222.4	215.4	208.3	215.4	222.4	224.2	240.6	262.3	273.2	289.3	321.2
145°	229.1	222.9	216.8	222.9	229.1	230.6	244.2	262.4	271.5	284.5	310.7
147.5°	237.3	231.3	225.4	231.3	237.3	238.8	249.7	264.2	271.5	281.8	302.3
150°	241.6	236.2	230.8	236.2	241.6	243.0	252.5	265.1	271.5	280.1	297.5
152.5°	244.8	240.7	236.5	240.7	244.8	245.8	254.4	265.7	271.5	278.9	293.8
155°	251.1	248.1	245.0	248.1	251.1	251.9	258.4	267.1	271.5	277.4	289.2
157.5°	257.2	254.3	251.3	254.3	257.2	257.9	262.4	268.4	271.5	276.0	285.2
160°	260.2	257.8	255.6	257.8	260.2	260.7	264.3	269.0	271.5	275.4	283.3
162.5°	263.2	261.5	259.8	261.5	263.2	263.7	266.3	269.8	271.5	274.8	281.4
165°	267.6	266.0	264.5	266.0	267.6	268.0	269.1	270.7	271.5	273.8	278.5
167.5°	270.1	269.4	268.7	269.4	270.1	270.3	271.3	272.6	273.2	274.9	278.0
170°	272.9	272.2	271.5	272.2	272.9	273.1	273.2	273.2	273.2	274.9	278.0
172.5°	273.2	273.1	272.9	273.1	273.2	273.2	273.2	273.2	273.2	274.5	276.9
175°	275.0	275.0	275.0	275.0	275.0	275.0	274.4	273.6	273.2	274.1	275.7
177.5°	275.0	275.0	275.0	275.0	275.0	275.0	274.5	274.0	273.7	274.3	275.6
180°	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0



TEST NUMBER: P934358

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	913.3	910.6	914.2	904.4	914.2	910.6	913.3	919.6	914.2	917.8	921.4
5°	801.4	796.9	782.6	771.0	782.6	796.9	801.4	820.2	829.1	845.3	866.8
7.5°	716.3	712.8	709.2	702.0	709.2	712.8	716.3	721.7	730.7	745.0	761.1
10°	697.5	698.4	703.8	702.9	703.8	698.4	697.5	695.7	693.1	695.7	705.6
12.5°	745.9	753.9	783.5	781.7	783.5	753.9	745.9	710.1	685.9	681.4	683.2
15°	801.4	804.1	810.3	811.2	810.3	804.1	801.4	787.1	714.5	683.2	673.4
17.5°	806.8	807.7	812.1	812.1	812.1	807.7	806.8	800.5	776.3	734.2	678.7
20°	802.3	804.1	813.0	814.8	813.0	804.1	802.3	794.2	780.8	765.6	723.5
22.5°	800.5	804.1	811.2	810.3	811.2	804.1	800.5	788.0	776.3	765.6	748.6
25°	791.5	791.5	792.4	793.3	792.4	791.5	791.5	781.7	758.4	755.7	745.9
27.5°	772.7	774.5	779.9	779.0	779.9	774.5	772.7	769.2	744.1	741.4	734.2
30°	755.7	753.9	749.5	745.9	749.5	753.9	755.7	750.4	725.3	718.1	719.9
32.5°	727.1	722.6	718.1	715.4	718.1	722.6	727.1	725.3	706.5	696.6	698.4
35°	693.1	694.0	693.1	690.4	693.1	694.0	693.1	694.9	683.2	674.3	673.4
37.5°	668.9	670.7	669.8	666.2	669.8	670.7	668.9	667.1	651.0	648.3	650.1
40°	643.8	644.7	643.8	641.1	643.8	644.7	643.8	640.2	617.9	618.8	625.0
42.5°	619.6	618.8	616.1	614.3	616.1	618.8	619.6	614.3	585.6	582.9	594.6
45°	591.9	592.8	587.4	584.7	587.4	592.8	591.9	588.3	558.8	551.6	559.7
47.5°	564.1	564.1	559.7	557.0	559.7	564.1	564.1	559.7	528.3	521.2	525.6
50°	534.6	533.7	527.4	526.5	527.4	533.7	534.6	531.9	498.8	492.5	492.5
52.5°	500.6	500.6	501.5	503.3	501.5	500.6	500.6	501.5	471.9	465.7	463.9
55°	471.0	471.9	478.2	480.0	478.2	471.9	471.0	471.0	444.2	437.9	434.3
57.5°	440.6	440.6	445.1	445.1	445.1	440.6	440.6	438.8	412.8	407.5	405.7
60°	405.7	407.5	411.0	410.1	411.0	407.5	405.7	403.9	381.5	377.9	371.6
62.5°	369.0	370.7	371.6	369.9	371.6	370.7	369.0	363.6	350.2	347.5	339.4
65°	330.5	332.3	333.1	331.4	333.1	332.3	330.5	327.8	317.8	313.4	306.2
67.5°	291.0	290.1	289.2	292.8	289.2	290.1	291.0	287.4	281.1	277.5	267.7
70°	250.7	250.7	249.8	251.6	249.8	250.7	250.7	248.0	244.4	241.7	232.8
72.5°	207.7	206.8	210.4	207.7	210.4	206.8	207.7	206.8	205.0	202.3	193.4
75°	165.6	167.4	165.6	168.3	165.6	167.4	165.6	166.5	165.6	163.8	157.6
77.5°	126.2	128.0	126.2	126.2	126.2	128.0	126.2	127.1	127.1	127.1	121.8
80°	89.5	88.6	88.6	87.7	88.6	88.6	89.5	89.5	90.4	88.6	86.8
82.5°	57.3	56.4	56.4	58.2	56.4	56.4	57.3	58.2	56.4	56.4	56.4
85°	31.3	32.2	30.4	30.4	30.4	32.2	31.3	29.5	31.3	31.3	30.4
87.5°	11.6	10.7	10.7	10.7	10.7	10.7	11.6	12.5	12.5	12.5	13.4
90°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.3	12.4	14.1	12.1
92.5°	35.1	33.7	28.1	22.5	28.1	33.7	35.1	49.7	69.2	79.0	69.3
95°	119.0	114.8	97.9	81.0	97.9	114.8	119.0	156.2	205.9	230.8	194.9
97.5°	274.8	266.7	234.6	202.4	234.6	266.7	274.8	298.3	329.7	345.4	285.6
100°	385.9	376.3	338.0	299.7	338.0	376.3	385.9	384.2	381.9	380.7	314.3
102.5°	480.7	472.5	439.7	406.9	439.7	472.5	480.7	450.7	410.7	390.6	323.3
105°	591.4	587.1	569.4	551.8	569.4	587.1	591.4	524.1	434.4	389.6	324.4
107.5°	649.0	650.1	654.3	658.6	654.3	650.1	649.0	555.2	430.0	367.4	310.0
110°	663.8	668.4	686.7	705.1	686.7	668.4	663.8	558.9	418.9	349.0	297.2



TEST NUMBER: P934358

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	654.4	661.5	689.7	717.9	689.7	661.5	654.4	546.9	403.8	332.2	286.0
115°	622.4	632.2	671.3	710.4	671.3	632.2	622.4	518.9	381.0	312.0	273.1
117.5°	578.3	589.1	632.5	676.0	632.5	589.1	578.3	484.9	360.5	298.2	265.1
120°	548.6	559.2	601.3	643.5	601.3	559.2	548.6	463.3	349.5	292.7	262.4
122.5°	518.9	529.3	570.9	612.5	570.9	529.3	518.9	442.1	339.6	288.4	261.0
125°	479.6	489.2	527.4	565.7	527.4	489.2	479.6	414.4	327.3	283.8	259.8
127.5°	448.0	456.1	488.4	520.7	488.4	456.1	448.0	392.0	317.3	280.0	259.2
130°	428.1	435.6	465.5	495.3	465.5	435.6	428.1	378.3	311.7	278.4	259.6
132.5°	411.1	417.8	444.5	471.3	444.5	417.8	411.1	366.5	306.9	277.2	259.8
135°	387.1	392.9	416.0	439.0	416.0	392.9	387.1	349.7	299.8	275.0	259.6
137.5°	369.4	374.2	393.0	411.8	393.0	374.2	369.4	337.8	295.6	274.6	261.2
140°	355.3	359.6	377.3	394.9	377.3	359.6	355.3	328.0	291.5	273.2	261.4
142.5°	345.2	349.0	364.2	379.4	364.2	349.0	345.2	321.2	289.3	273.2	262.3
145°	330.3	333.1	344.7	356.2	344.7	333.1	330.3	310.7	284.5	271.5	262.4
147.5°	317.7	320.2	329.7	339.1	329.7	320.2	317.7	302.3	281.8	271.5	264.2
150°	310.6	312.6	320.3	328.0	320.3	312.6	310.6	297.5	280.1	271.5	265.1
152.5°	304.9	306.3	312.1	317.9	312.1	306.3	304.9	293.8	278.9	271.5	265.7
155°	298.0	299.0	302.9	306.7	302.9	299.0	298.0	289.2	277.4	271.5	267.1
157.5°	292.1	292.9	295.5	298.2	295.5	292.9	292.1	285.2	276.0	271.5	268.4
160°	289.2	289.5	291.2	292.7	291.2	289.5	289.2	283.3	275.4	271.5	269.0
162.5°	286.4	286.8	288.3	289.7	288.3	286.8	286.4	281.4	274.8	271.5	269.8
165°	282.1	282.5	284.1	285.7	284.1	282.5	282.1	278.5	273.8	271.5	270.7
167.5°	280.3	280.5	281.1	281.8	281.1	280.5	280.3	278.0	274.9	273.2	272.6
170°	280.3	280.3	280.3	280.3	280.3	280.3	280.3	278.0	274.9	273.2	273.2
172.5°	278.8	278.6	278.1	277.5	278.1	278.6	278.8	276.9	274.5	273.2	273.2
175°	276.8	276.8	276.8	276.8	276.8	276.8	276.8	275.7	274.1	273.2	273.6
177.5°	276.5	276.3	275.7	275.0	275.7	276.3	276.5	275.6	274.3	273.7	274.0
180°	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0



TEST NUMBER: P934358

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	946.4	946.4	946.4	946.4	946.4
2.5°	934.8	939.3	942.0	945.5	954.5
5°	899.0	916.0	921.4	934.8	950.9
7.5°	820.2	872.1	886.4	918.7	943.7
10°	744.1	796.0	821.1	897.2	934.8
12.5°	705.6	736.0	753.0	859.6	922.3
15°	681.4	702.9	715.4	809.5	907.9
17.5°	662.6	677.8	686.8	760.2	888.2
20°	651.0	658.1	666.2	724.4	865.9
22.5°	642.9	638.4	644.7	699.3	835.4
25°	637.6	620.5	627.7	679.6	799.6
27.5°	642.0	604.4	607.1	661.7	762.0
30°	642.9	584.7	585.6	642.9	719.9
32.5°	636.7	564.1	565.0	619.6	672.5
35°	621.4	540.0	539.1	592.8	608.0
37.5°	600.8	514.0	514.0	563.2	537.3
40°	575.8	488.0	490.7	524.7	474.6
42.5°	545.3	460.3	463.9	473.7	428.0
45°	512.2	433.4	436.1	400.3	392.2
47.5°	475.5	405.7	406.6	332.3	380.6
50°	431.6	377.0	373.4	284.7	379.7
52.5°	393.1	345.7	334.9	257.8	344.8
55°	355.5	312.5	289.2	237.3	319.7
57.5°	322.4	269.5	247.1	213.1	314.3
60°	291.9	227.4	210.4	187.1	288.3
62.5°	266.8	196.1	192.5	169.2	261.4
65°	239.9	174.6	173.7	154.0	222.0
67.5°	214.0	160.3	159.4	139.7	169.2
70°	186.2	145.0	143.2	124.4	125.3
72.5°	157.6	128.0	126.2	111.9	103.9
75°	128.9	108.3	107.4	97.6	84.2
77.5°	101.2	85.9	87.7	78.8	61.8
80°	72.5	62.7	64.5	56.4	46.6
82.5°	48.3	41.2	43.0	35.8	31.3
85°	26.9	23.3	24.2	18.8	14.3
87.5°	12.5	10.7	10.7	7.2	4.5
90°	8.1	5.2	4.8	3.3	1.9
92.5°	50.0	35.6	32.5	19.9	7.3
95°	123.2	69.4	63.7	40.6	17.7
97.5°	165.9	76.2	71.1	50.9	30.6
100°	181.5	81.9	77.4	58.9	40.6
102.5°	188.6	87.7	83.4	66.3	49.1
105°	193.9	96.2	92.5	78.0	63.5
107.5°	194.9	108.7	105.3	91.8	78.3
110°	193.5	115.7	112.6	100.4	88.2



TEST NUMBER: P934358

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	193.5	124.2	121.2	109.6	97.9
115°	195.3	136.9	134.2	123.5	112.7
117.5°	198.9	149.2	146.8	137.1	127.3
120°	201.9	156.5	154.2	145.0	135.8
122.5°	206.1	165.0	162.7	153.5	144.1
125°	211.8	175.8	173.7	165.3	156.9
127.5°	217.6	186.4	184.3	175.7	167.2
130°	221.8	193.4	191.1	181.9	172.7
132.5°	225.2	199.1	196.8	187.7	178.4
135°	228.8	205.7	203.7	195.3	186.9
137.5°	234.4	214.2	212.2	203.9	195.6
140°	237.7	220.0	218.1	210.4	202.8
142.5°	240.6	224.2	222.4	215.4	208.3
145°	244.2	230.6	229.1	222.9	216.8
147.5°	249.7	238.8	237.3	231.3	225.4
150°	252.5	243.0	241.6	236.2	230.8
152.5°	254.4	245.8	244.8	240.7	236.5
155°	258.4	251.9	251.1	248.1	245.0
157.5°	262.4	257.9	257.2	254.3	251.3
160°	264.3	260.7	260.2	257.8	255.6
162.5°	266.3	263.7	263.2	261.5	259.8
165°	269.1	268.0	267.6	266.0	264.5
167.5°	271.3	270.3	270.1	269.4	268.7
170°	273.2	273.1	272.9	272.2	271.5
172.5°	273.2	273.2	273.2	273.1	272.9
175°	274.4	275.0	275.0	275.0	275.0
177.5°	274.5	275.0	275.0	275.0	275.0
180°	275.0	275.0	275.0	275.0	275.0



TEST NUMBER: P934358
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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	13.04	13.98	13.93	14.89	16.04	15.84	16.78	16.73	17.69	18.84
	3H	13.53	14.37	14.43	15.28	16.46	17.18	18.02	18.08	18.94	20.12
	4H	13.72	14.52	14.64	15.44	16.63	17.63	18.42	18.54	19.34	20.53
	6H	13.85	14.58	14.77	15.51	16.71	17.91	18.64	18.83	19.57	20.77
	8H	13.85	14.55	14.78	15.49	16.69	17.98	18.68	18.91	19.62	20.82
	12H	13.82	14.49	14.76	15.43	16.65	18.02	18.68	18.95	19.62	20.84
4H	2H	14.08	14.87	15.00	15.80	16.98	16.26	17.06	17.18	17.98	19.17
	3H	15.11	15.77	16.04	16.73	17.93	17.77	18.43	18.70	19.38	20.58
	4H	15.39	16.00	16.33	16.94	18.17	18.29	18.89	19.23	19.84	21.07
	6H	15.52	16.04	16.48	17.01	18.24	18.65	19.17	19.61	20.14	21.37
	8H	15.53	16.02	16.49	16.98	18.22	18.76	19.24	19.71	20.21	21.45
	12H	15.50	15.94	16.48	16.92	18.17	18.81	19.25	19.79	20.23	21.48
8H	4H	15.85	16.33	16.80	17.30	18.54	18.42	18.91	19.38	19.87	21.12
	6H	16.11	16.51	17.09	17.52	18.76	18.85	19.26	19.83	20.26	21.50
	8H	16.15	16.51	17.15	17.51	18.76	19.00	19.36	19.99	20.35	21.61
	12H	16.14	16.46	17.14	17.44	18.75	19.10	19.41	20.09	20.40	21.70
12H	4H	15.86	16.29	16.83	17.28	18.52	18.39	18.83	19.37	19.81	21.06
	6H	16.17	16.53	17.16	17.52	18.78	18.85	19.21	19.84	20.20	21.46
	8H	16.24	16.55	17.24	17.54	18.85	19.01	19.32	20.01	20.31	21.62