

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: P934006

Luminaire Tested: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934006
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

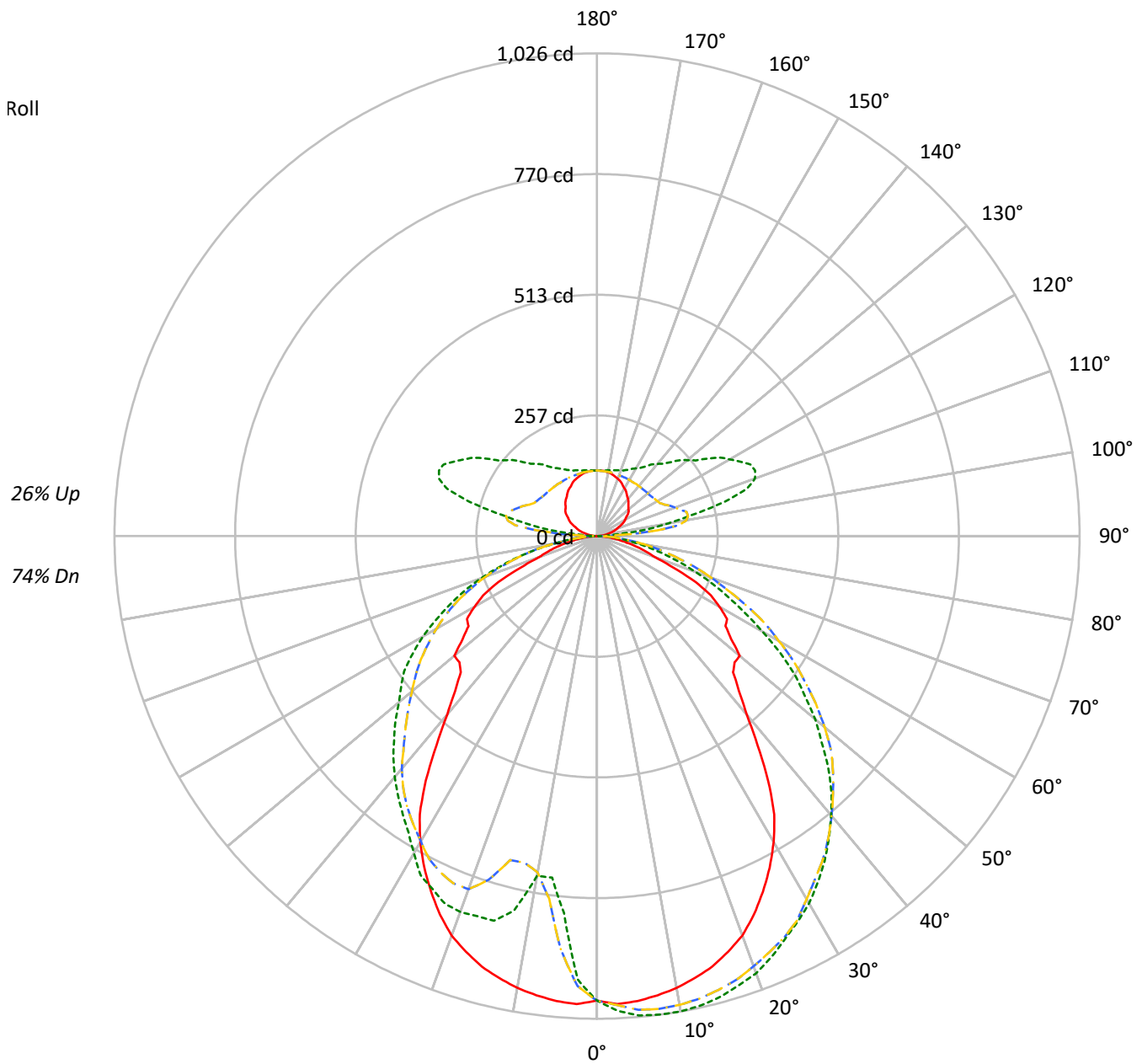
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3464.1 lumens
Efficiency: N/A
Efficacy: 115.5 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: Semi-Direct

Input Watts (W): 30
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: P934006
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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	50	30	10	0
RCR																					
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9161	9161	9161	9161
5°	9220	9249	9220	7272
10°	9148	9111	9148	6513
15°	9039	8914	9039	7442
20°	8839	8679	8839	7458
25°	8443	8338	8443	7300
30°	7932	8055	7932	6953
35°	7062	7697	7062	6572
40°	5874	7275	5874	6283
45°	5239	6782	5239	5952
50°	5553	6193	5553	5620
55°	5209	5560	5209	5427
60°	5349	4722	5349	4972
65°	4826	3903	4826	4364
70°	3321	3110	3321	3657
75°	2879	2298	2879	2753
80°	2275	1521	2275	1654
85°	1234	806	1234	685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	2.6
10°-20°	253.1	7.3
20°-30°	391.2	11.3
30°-40°	467.0	13.5
40°-50°	469.7	13.6
50°-60°	408.7	11.8
60°-70°	289.8	8.4
70°-80°	153.3	4.4
80°-90°	38.7	1.1
90°-100°	67.9	2.0
100°-110°	178.6	5.2
110°-120°	185.2	5.3
120°-130°	148.6	4.3
130°-140°	116.6	3.4
140°-150°	89.5	2.6
150°-160°	64.4	1.9
160°-170°	39.4	1.1
170°-180°	13.3	0.4
0°-30°	733.4	21.2
0°-40°	1200.3	34.7
0°-60°	2078.8	60.0
0°-90°	2560.6	73.9
90°-120°	431.8	12.5
90°-150°	786.4	22.7
90°-180°	904.0	26.1
0°-180°	3464.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	987	987	987	987	987	
5°	992	1023	992	804	992	94
15°	947	1014	947	846	947	267
25°	834	945	834	828	834	383
35°	634	844	634	720	634	392
45°	409	695	409	610	409	328
55°	334	513	334	501	334	306
65°	232	309	232	346	232	221
75°	88	147	88	176	88	92
85°	15	37	15	32	15	20
90°	1	4	1	4	1	1
95°	9	41	9	41	9	10
105°	32	280	32	280	32	34
115°	57	360	57	360	57	56
125°	80	287	80	287	80	71
135°	95	223	95	223	95	73
145°	110	180	110	180	110	69
155°	124	156	124	156	124	57
165°	134	145	134	145	134	38
175°	139	140	139	140	139	13
180°	139	139	139	139	139	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	995.7	995.7	1001.4	1003.3	1003.3	1000.5	997.7	1000.5	1008.9	1011.7	1010.8
5°	992.0	999.6	1009.8	1011.7	1013.6	1012.6	1010.8	1012.6	1022.0	1023.9	1024.8
7.5°	984.5	998.6	1011.7	1014.5	1017.3	1014.5	1013.6	1015.4	1024.8	1026.7	1026.7
10°	975.2	994.8	1009.8	1011.7	1014.5	1011.7	1011.7	1015.4	1024.8	1026.7	1027.6
12.5°	962.1	989.2	1003.3	1005.2	1008.9	1008.0	1007.0	1010.8	1020.1	1022.0	1022.0
15°	947.2	978.9	992.0	993.9	1000.5	998.6	998.6	1002.4	1012.6	1015.4	1014.5
17.5°	926.6	965.8	980.8	983.6	988.3	987.3	988.3	992.0	1001.4	1003.3	1004.2
20°	903.3	948.1	965.8	968.7	973.3	973.3	973.3	978.0	987.3	991.1	991.1
22.5°	871.5	929.4	948.1	950.0	955.6	955.6	957.4	964.0	972.4	973.3	973.3
25°	834.2	908.9	924.8	930.4	936.0	938.8	941.6	945.3	948.1	947.2	948.1
27.5°	794.9	882.7	903.3	907.0	914.5	917.3	921.0	922.0	922.9	925.7	923.8
30°	751.0	846.3	877.1	880.9	893.0	894.9	891.1	893.0	897.7	899.5	901.4
32.5°	701.5	792.1	850.0	858.4	869.6	864.0	863.1	865.9	873.4	873.4	875.3
35°	634.3	750.1	824.8	832.3	840.7	834.2	837.9	838.8	843.5	846.3	845.4
37.5°	560.5	713.7	798.7	804.3	810.8	802.4	808.0	810.8	814.5	812.7	812.7
40°	495.1	656.7	767.8	771.6	777.2	770.6	776.2	778.1	780.0	778.1	777.2
42.5°	446.5	594.1	735.2	739.8	736.1	740.8	742.6	746.4	743.6	739.8	739.8
45°	409.2	577.3	699.7	705.3	699.7	707.1	709.9	709.9	701.5	699.7	698.7
47.5°	397.0	543.7	664.2	664.2	661.4	670.7	675.4	668.8	660.4	657.6	657.6
50°	396.1	506.3	615.6	611.9	624.9	636.1	631.5	624.9	618.4	608.1	608.1
52.5°	359.7	460.6	553.0	567.0	587.6	594.1	586.6	580.1	568.9	564.2	560.5
55°	333.5	412.9	496.0	524.1	545.5	554.0	539.9	533.4	516.6	513.8	511.9
57.5°	327.8	343.8	443.7	479.2	505.4	504.5	496.0	483.9	469.9	467.1	466.2
60°	300.7	248.4	387.7	429.7	456.8	454.0	446.5	435.3	422.3	420.4	418.5
62.5°	272.7	180.3	324.1	371.8	410.1	409.2	402.6	385.8	376.5	371.8	368.1
65°	231.6	151.3	230.7	309.2	364.4	366.2	352.2	340.1	329.7	324.1	323.2
67.5°	176.5	123.3	156.0	257.8	320.4	318.5	300.7	295.1	282.1	279.3	273.7
70°	130.8	82.2	108.3	209.2	277.4	272.7	258.7	252.2	240.0	233.5	229.8
72.5°	108.3	66.3	79.4	162.5	233.5	227.9	215.8	208.3	198.0	192.4	188.7
75°	87.8	70.0	60.7	120.5	189.6	185.9	174.7	167.2	158.8	151.3	152.2
77.5°	64.4	65.4	48.6	88.7	150.4	144.8	138.2	128.9	125.2	117.7	117.7
80°	48.6	51.4	36.4	60.7	108.3	108.3	102.7	96.2	89.7	85.9	85.9
82.5°	32.7	32.7	27.1	38.3	73.8	71.0	67.2	65.4	61.6	59.8	59.8
85°	14.9	18.7	16.8	23.4	40.2	42.0	42.0	40.2	39.2	37.4	38.3
87.5°	4.7	8.4	10.3	13.1	20.5	21.5	22.4	22.4	22.4	23.4	23.4
90°	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8	3.5	3.5
92.5°	3.7	10.1	16.4	18.0	25.4	35.2	40.1	35.1	25.2	17.7	17.0
95°	9.0	20.6	32.3	35.2	62.5	98.8	117.0	104.4	79.2	60.3	58.2
97.5°	15.5	25.8	36.1	38.7	84.2	144.8	175.1	167.2	151.2	139.3	135.1
100°	20.5	29.9	39.2	41.6	92.0	159.3	193.0	193.5	194.7	195.6	190.7
102.5°	24.8	33.5	42.3	44.5	95.6	163.9	198.0	208.2	228.5	243.7	239.5
105°	32.2	39.6	46.9	48.8	98.4	164.4	197.4	220.2	265.7	299.8	297.6
107.5°	39.7	46.5	53.4	55.1	98.8	157.1	186.2	218.0	281.4	329.0	329.6
110°	44.7	50.9	57.1	58.7	98.1	150.7	176.9	212.4	283.3	336.5	338.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	49.7	55.6	61.5	63.0	98.1	145.0	168.4	204.7	277.3	331.8	335.3
115°	57.2	62.6	68.0	69.4	99.0	138.5	158.2	193.2	263.1	315.5	320.5
117.5°	64.5	69.5	74.4	75.7	100.9	134.4	151.2	182.8	245.8	293.2	298.7
120°	68.8	73.5	78.2	79.3	102.3	133.0	148.3	177.2	234.9	278.1	283.5
122.5°	73.0	77.7	82.4	83.6	104.4	132.3	146.2	172.1	224.1	263.0	268.2
125°	79.5	83.8	88.1	89.2	107.4	131.7	143.8	165.9	210.1	243.1	248.0
127.5°	84.7	89.1	93.4	94.5	110.3	131.3	141.9	160.8	198.8	227.1	231.3
130°	87.5	92.2	96.9	98.1	112.5	131.6	141.1	158.0	191.8	217.1	220.8
132.5°	90.5	95.2	99.8	101.0	114.1	131.7	140.5	155.6	185.8	208.5	211.8
135°	94.8	99.0	103.3	104.3	116.0	131.6	139.4	152.0	177.3	196.2	199.1
137.5°	99.2	103.4	107.6	108.6	118.8	132.3	139.2	149.8	171.2	187.3	189.7
140°	102.8	106.7	110.6	111.5	120.5	132.5	138.5	147.8	166.3	180.1	182.3
142.5°	105.6	109.2	112.7	113.7	122.0	133.0	138.5	146.6	162.9	175.0	177.0
145°	109.9	113.0	116.2	116.9	123.8	133.0	137.6	144.2	157.5	167.5	169.0
147.5°	114.2	117.2	120.3	121.0	126.6	133.9	137.6	142.8	153.3	161.1	162.3
150°	117.0	119.7	122.5	123.2	128.0	134.4	137.6	142.0	150.8	157.5	158.4
152.5°	119.9	122.0	124.0	124.6	128.9	134.7	137.6	141.3	148.9	154.6	155.3
155°	124.2	125.7	127.3	127.7	130.9	135.3	137.6	140.6	146.6	151.1	151.6
157.5°	127.4	128.9	130.4	130.8	133.0	136.1	137.6	139.9	144.6	148.0	148.4
160°	129.5	130.7	131.9	132.2	133.9	136.4	137.6	139.5	143.6	146.5	146.7
162.5°	131.7	132.5	133.5	133.7	135.0	136.7	137.6	139.3	142.6	145.1	145.3
165°	134.0	134.8	135.6	135.8	136.4	137.2	137.6	138.8	141.2	143.0	143.2
167.5°	136.2	136.6	136.9	137.0	137.5	138.1	138.5	139.3	140.8	142.1	142.2
170°	137.6	138.0	138.3	138.4	138.4	138.5	138.5	139.3	140.8	142.1	142.1
172.5°	138.3	138.4	138.5	138.5	138.5	138.5	138.5	139.2	140.4	141.3	141.2
175°	139.4	139.4	139.4	139.4	139.1	138.7	138.5	138.9	139.7	140.3	140.3
177.5°	139.4	139.4	139.4	139.4	139.2	138.9	138.7	139.0	139.6	140.1	140.0
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	1012.6	1009.8	1012.6	1010.8	1011.7	1008.9	1000.5	997.7	1000.5	1003.3	1003.3
5°	1024.8	1022.9	1024.8	1024.8	1023.9	1022.0	1012.6	1010.8	1012.6	1013.6	1011.7
7.5°	1028.5	1025.7	1028.5	1026.7	1026.7	1024.8	1015.4	1013.6	1014.5	1017.3	1014.5
10°	1028.5	1025.7	1028.5	1027.6	1026.7	1024.8	1015.4	1011.7	1011.7	1014.5	1011.7
12.5°	1023.9	1022.0	1023.9	1022.0	1022.0	1020.1	1010.8	1007.0	1008.0	1008.9	1005.2
15°	1016.4	1013.6	1016.4	1014.5	1015.4	1012.6	1002.4	998.6	998.6	1000.5	993.9
17.5°	1005.2	1001.4	1005.2	1004.2	1003.3	1001.4	992.0	988.3	987.3	988.3	983.6
20°	992.0	989.2	992.0	991.1	991.1	987.3	978.0	973.3	973.3	973.3	968.7
22.5°	971.5	968.7	971.5	973.3	973.3	972.4	964.0	957.4	955.6	955.6	950.0
25°	948.1	945.3	948.1	948.1	947.2	948.1	945.3	941.6	938.8	936.0	930.4
27.5°	925.7	923.8	925.7	923.8	925.7	922.9	922.0	921.0	917.3	914.5	907.0
30°	903.3	901.4	903.3	901.4	899.5	897.7	893.0	891.1	894.9	893.0	880.9
32.5°	875.3	873.4	875.3	875.3	873.4	873.4	865.9	863.1	864.0	869.6	858.4
35°	846.3	843.5	846.3	845.4	846.3	843.5	838.8	837.9	834.2	840.7	832.3
37.5°	812.7	809.9	812.7	812.7	812.7	814.5	810.8	808.0	802.4	810.8	804.3
40°	778.1	774.4	778.1	777.2	778.1	780.0	778.1	776.2	770.6	777.2	771.6
42.5°	738.9	738.0	738.9	739.8	739.8	743.6	746.4	742.6	740.8	736.1	739.8
45°	696.9	695.0	696.9	698.7	699.7	701.5	709.9	709.9	707.1	699.7	705.3
47.5°	652.0	647.4	652.0	657.6	657.6	660.4	668.8	675.4	670.7	661.4	664.2
50°	604.4	605.3	604.4	608.1	608.1	618.4	624.9	631.5	636.1	624.9	611.9
52.5°	557.7	556.8	557.7	560.5	564.2	568.9	580.1	586.6	594.1	587.6	567.0
55°	511.0	512.9	511.0	511.9	513.8	516.6	533.4	539.9	554.0	545.5	524.1
57.5°	464.3	461.5	464.3	466.2	467.1	469.9	483.9	496.0	504.5	505.4	479.2
60°	410.1	406.4	410.1	418.5	420.4	422.3	435.3	446.5	454.0	456.8	429.7
62.5°	362.5	355.9	362.5	368.1	371.8	376.5	385.8	402.6	409.2	410.1	371.8
65°	312.0	309.2	312.0	323.2	324.1	329.7	340.1	352.2	366.2	364.4	309.2
67.5°	266.2	266.2	266.2	273.7	279.3	282.1	295.1	300.7	318.5	320.4	257.8
70°	224.2	223.2	224.2	229.8	233.5	240.0	252.2	258.7	272.7	277.4	209.2
72.5°	184.0	183.1	184.0	188.7	192.4	198.0	208.3	215.8	227.9	233.5	162.5
75°	148.5	146.6	148.5	152.2	151.3	158.8	167.2	174.7	185.9	189.6	120.5
77.5°	113.9	113.9	113.9	117.7	117.7	125.2	128.9	138.2	144.8	150.4	88.7
80°	85.0	84.1	85.0	85.9	85.9	89.7	96.2	102.7	108.3	108.3	60.7
82.5°	59.8	57.9	59.8	59.8	59.8	61.6	65.4	67.2	71.0	73.8	38.3
85°	37.4	37.4	37.4	38.3	37.4	39.2	40.2	42.0	42.0	40.2	23.4
87.5°	24.3	23.4	24.3	23.4	23.4	22.4	22.4	22.4	21.5	20.5	13.1
90°	3.5	3.5	3.5	3.5	3.5	4.8	6.4	7.1	6.1	4.1	2.6
92.5°	14.2	11.4	14.2	17.0	17.7	25.2	35.1	40.1	35.2	25.4	18.0
95°	49.7	41.1	49.7	58.2	60.3	79.2	104.4	117.0	98.8	62.5	35.2
97.5°	118.9	102.6	118.9	135.1	139.3	151.2	167.2	175.1	144.8	84.2	38.7
100°	171.4	152.0	171.4	190.7	195.6	194.7	193.5	193.0	159.3	92.0	41.6
102.5°	222.9	206.2	222.9	239.5	243.7	228.5	208.2	198.0	163.9	95.6	44.5
105°	288.7	279.7	288.7	297.6	299.8	265.7	220.2	197.4	164.4	98.4	48.8
107.5°	331.8	333.9	331.8	329.6	329.0	281.4	218.0	186.2	157.1	98.8	55.1
110°	348.1	357.4	348.1	338.9	336.5	283.3	212.4	176.9	150.7	98.1	58.7



TEST NUMBER: P934006

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	349.6	363.9	349.6	335.3	331.8	277.3	204.7	168.4	145.0	98.1	63.0
115°	340.3	360.2	340.3	320.5	315.5	263.1	193.2	158.2	138.5	99.0	69.4
117.5°	320.6	342.7	320.6	298.7	293.2	245.8	182.8	151.2	134.4	100.9	75.7
120°	304.9	326.2	304.9	283.5	278.1	234.9	177.2	148.3	133.0	102.3	79.3
122.5°	289.4	310.5	289.4	268.2	263.0	224.1	172.1	146.2	132.3	104.4	83.6
125°	267.4	286.8	267.4	248.0	243.1	210.1	165.9	143.8	131.7	107.4	89.2
127.5°	247.6	263.9	247.6	231.3	227.1	198.8	160.8	141.9	131.3	110.3	94.5
130°	235.9	251.1	235.9	220.8	217.1	191.8	158.0	141.1	131.6	112.5	98.1
132.5°	225.4	238.9	225.4	211.8	208.5	185.8	155.6	140.5	131.7	114.1	101.0
135°	210.9	222.6	210.9	199.1	196.2	177.3	152.0	139.4	131.6	116.0	104.3
137.5°	199.2	208.8	199.2	189.7	187.3	171.2	149.8	139.2	132.3	118.8	108.6
140°	191.2	200.2	191.2	182.3	180.1	166.3	147.8	138.5	132.5	120.5	111.5
142.5°	184.7	192.3	184.7	177.0	175.0	162.9	146.6	138.5	133.0	122.0	113.7
145°	174.8	180.5	174.8	169.0	167.5	157.5	144.2	137.6	133.0	123.8	116.9
147.5°	167.1	171.9	167.1	162.3	161.1	153.3	142.8	137.6	133.9	126.6	121.0
150°	162.3	166.3	162.3	158.4	157.5	150.8	142.0	137.6	134.4	128.0	123.2
152.5°	158.2	161.2	158.2	155.3	154.6	148.9	141.3	137.6	134.7	128.9	124.6
155°	153.5	155.5	153.5	151.6	151.1	146.6	140.6	137.6	135.3	130.9	127.7
157.5°	149.8	151.2	149.8	148.4	148.0	144.6	139.9	137.6	136.1	133.0	130.8
160°	147.6	148.3	147.6	146.7	146.5	143.6	139.5	137.6	136.4	133.9	132.2
162.5°	146.1	146.8	146.1	145.3	145.1	142.6	139.3	137.6	136.7	135.0	133.7
165°	144.0	144.8	144.0	143.2	143.0	141.2	138.8	137.6	137.2	136.4	135.8
167.5°	142.4	142.8	142.4	142.2	142.1	140.8	139.3	138.5	138.1	137.5	137.0
170°	142.1	142.1	142.1	142.1	142.1	140.8	139.3	138.5	138.5	138.4	138.4
172.5°	140.9	140.7	140.9	141.2	141.3	140.4	139.2	138.5	138.5	138.5	138.5
175°	140.3	140.3	140.3	140.3	140.3	139.7	138.9	138.5	138.7	139.1	139.4
177.5°	139.7	139.4	139.7	140.0	140.1	139.6	139.0	138.7	138.9	139.2	139.4
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



TEST NUMBER: P934006

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	1001.4	995.7	995.7	986.4	982.7	979.9	975.2	961.2	957.4	953.7	959.3
5°	1009.8	999.6	992.0	975.2	961.2	955.6	937.8	904.2	881.8	865.0	855.6
7.5°	1011.7	998.6	984.5	958.4	924.8	909.8	855.6	794.0	777.2	762.2	752.9
10°	1009.8	994.8	975.2	936.0	856.6	830.4	776.2	736.1	725.8	723.0	725.8
12.5°	1003.3	989.2	962.1	896.7	785.6	767.8	736.1	712.7	710.9	715.5	740.8
15°	992.0	978.9	947.2	844.4	746.4	733.3	710.9	702.5	712.7	745.4	821.1
17.5°	980.8	965.8	926.6	793.1	716.5	707.1	691.3	708.1	766.0	809.9	835.1
20°	965.8	948.1	903.3	755.7	695.0	686.6	679.1	754.8	798.7	814.5	828.6
22.5°	948.1	929.4	871.5	729.5	672.6	666.0	670.7	780.9	798.7	809.9	822.0
25°	924.8	908.9	834.2	709.0	654.8	647.4	665.1	778.1	788.4	791.2	815.5
27.5°	903.3	882.7	794.9	690.3	633.3	630.5	669.8	766.0	773.4	776.2	802.4
30°	877.1	846.3	751.0	670.7	610.9	610.0	670.7	751.0	749.2	756.6	782.8
32.5°	850.0	792.1	701.5	646.4	589.4	588.5	664.2	728.6	726.7	737.0	756.6
35°	824.8	750.1	634.3	618.4	562.4	563.3	648.3	702.5	703.4	712.7	724.9
37.5°	798.7	713.7	560.5	587.6	536.2	536.2	626.8	678.2	676.3	679.1	695.9
40°	767.8	656.7	495.1	547.4	511.9	509.1	600.7	652.0	645.5	644.6	667.9
42.5°	735.2	594.1	446.5	494.2	483.9	480.2	568.9	620.3	608.1	610.9	640.8
45°	699.7	577.3	409.2	417.6	455.0	452.1	534.3	583.8	575.4	582.9	613.7
47.5°	664.2	543.7	397.0	346.6	424.1	423.2	496.0	548.4	543.7	551.2	583.8
50°	615.6	506.3	396.1	297.0	389.6	393.3	450.3	513.8	513.8	520.3	554.9
52.5°	553.0	460.6	359.7	269.0	349.4	360.6	410.1	483.9	485.8	492.3	523.1
55°	496.0	412.9	333.5	247.5	301.7	326.0	370.9	453.1	456.8	463.4	491.4
57.5°	443.7	343.8	327.8	222.3	257.8	281.1	336.3	423.2	425.1	430.7	457.8
60°	387.7	248.4	300.7	195.2	219.5	237.2	304.5	387.7	394.2	398.0	421.3
62.5°	324.1	180.3	272.7	176.5	200.8	204.5	278.3	354.1	362.5	365.3	379.3
65°	230.7	151.3	231.6	160.6	181.2	182.1	250.3	319.4	326.9	331.6	341.9
67.5°	156.0	123.3	176.5	145.7	166.3	167.2	223.2	279.3	289.5	293.3	299.8
70°	108.3	82.2	130.8	129.8	149.4	151.3	194.3	242.8	252.2	255.0	258.7
72.5°	79.4	66.3	108.3	116.8	131.7	133.6	164.4	201.7	211.1	213.9	215.8
75°	60.7	70.0	87.8	101.8	112.1	113.0	134.5	164.4	170.9	172.8	173.7
77.5°	48.6	65.4	64.4	82.2	91.5	89.7	105.5	127.0	132.6	132.6	132.6
80°	36.4	51.4	48.6	58.8	67.2	65.4	75.7	90.6	92.5	94.3	93.4
82.5°	27.1	32.7	32.7	37.4	44.8	43.0	50.4	58.8	58.8	58.8	60.7
85°	16.8	18.7	14.9	19.6	25.2	24.3	28.0	31.8	32.7	32.7	30.8
87.5°	10.3	8.4	4.7	7.5	11.2	11.2	13.1	14.0	13.1	13.1	13.1
90°	2.4	1.7	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8
92.5°	16.4	10.1	3.7	10.1	16.4	18.0	25.4	35.2	40.1	35.1	25.2
95°	32.3	20.6	9.0	20.6	32.3	35.2	62.5	98.8	117.0	104.4	79.2
97.5°	36.1	25.8	15.5	25.8	36.1	38.7	84.2	144.8	175.1	167.2	151.2
100°	39.2	29.9	20.5	29.9	39.2	41.6	92.0	159.3	193.0	193.5	194.7
102.5°	42.3	33.5	24.8	33.5	42.3	44.5	95.6	163.9	198.0	208.2	228.5
105°	46.9	39.6	32.2	39.6	46.9	48.8	98.4	164.4	197.4	220.2	265.7
107.5°	53.4	46.5	39.7	46.5	53.4	55.1	98.8	157.1	186.2	218.0	281.4
110°	57.1	50.9	44.7	50.9	57.1	58.7	98.1	150.7	176.9	212.4	283.3



TEST NUMBER: P934006

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	61.5	55.6	49.7	55.6	61.5	63.0	98.1	145.0	168.4	204.7	277.3
115°	68.0	62.6	57.2	62.6	68.0	69.4	99.0	138.5	158.2	193.2	263.1
117.5°	74.4	69.5	64.5	69.5	74.4	75.7	100.9	134.4	151.2	182.8	245.8
120°	78.2	73.5	68.8	73.5	78.2	79.3	102.3	133.0	148.3	177.2	234.9
122.5°	82.4	77.7	73.0	77.7	82.4	83.6	104.4	132.3	146.2	172.1	224.1
125°	88.1	83.8	79.5	83.8	88.1	89.2	107.4	131.7	143.8	165.9	210.1
127.5°	93.4	89.1	84.7	89.1	93.4	94.5	110.3	131.3	141.9	160.8	198.8
130°	96.9	92.2	87.5	92.2	96.9	98.1	112.5	131.6	141.1	158.0	191.8
132.5°	99.8	95.2	90.5	95.2	99.8	101.0	114.1	131.7	140.5	155.6	185.8
135°	103.3	99.0	94.8	99.0	103.3	104.3	116.0	131.6	139.4	152.0	177.3
137.5°	107.6	103.4	99.2	103.4	107.6	108.6	118.8	132.3	139.2	149.8	171.2
140°	110.6	106.7	102.8	106.7	110.6	111.5	120.5	132.5	138.5	147.8	166.3
142.5°	112.7	109.2	105.6	109.2	112.7	113.7	122.0	133.0	138.5	146.6	162.9
145°	116.2	113.0	109.9	113.0	116.2	116.9	123.8	133.0	137.6	144.2	157.5
147.5°	120.3	117.2	114.2	117.2	120.3	121.0	126.6	133.9	137.6	142.8	153.3
150°	122.5	119.7	117.0	119.7	122.5	123.2	128.0	134.4	137.6	142.0	150.8
152.5°	124.0	122.0	119.9	122.0	124.0	124.6	128.9	134.7	137.6	141.3	148.9
155°	127.3	125.7	124.2	125.7	127.3	127.7	130.9	135.3	137.6	140.6	146.6
157.5°	130.4	128.9	127.4	128.9	130.4	130.8	133.0	136.1	137.6	139.9	144.6
160°	131.9	130.7	129.5	130.7	131.9	132.2	133.9	136.4	137.6	139.5	143.6
162.5°	133.5	132.5	131.7	132.5	133.5	133.7	135.0	136.7	137.6	139.3	142.6
165°	135.6	134.8	134.0	134.8	135.6	135.8	136.4	137.2	137.6	138.8	141.2
167.5°	136.9	136.6	136.2	136.6	136.9	137.0	137.5	138.1	138.5	139.3	140.8
170°	138.3	138.0	137.6	138.0	138.3	138.4	138.4	138.5	138.5	139.3	140.8
172.5°	138.5	138.4	138.3	138.4	138.5	138.5	138.5	138.5	138.5	139.2	140.4
175°	139.4	139.4	139.4	139.4	139.4	139.4	139.1	138.7	138.5	138.9	139.7
177.5°	139.4	139.4	139.4	139.4	139.4	139.4	139.2	138.9	138.7	139.0	139.6
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



TEST NUMBER: P934006
 CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	952.8	950.0	953.7	943.4	953.7	950.0	952.8	959.3	953.7	957.4	961.2
5°	836.0	831.4	816.4	804.3	816.4	831.4	836.0	855.6	865.0	881.8	904.2
7.5°	747.3	743.6	739.8	732.3	739.8	743.6	747.3	752.9	762.2	777.2	794.0
10°	727.7	728.6	734.2	733.3	734.2	728.6	727.7	725.8	723.0	725.8	736.1
12.5°	778.1	786.5	817.3	815.5	817.3	786.5	778.1	740.8	715.5	710.9	712.7
15°	836.0	838.8	845.4	846.3	845.4	838.8	836.0	821.1	745.4	712.7	702.5
17.5°	841.6	842.6	847.2	847.2	847.2	842.6	841.6	835.1	809.9	766.0	708.1
20°	837.0	838.8	848.2	850.0	848.2	838.8	837.0	828.6	814.5	798.7	754.8
22.5°	835.1	838.8	846.3	845.4	846.3	838.8	835.1	822.0	809.9	798.7	780.9
25°	825.7	825.7	826.7	827.6	826.7	825.7	825.7	815.5	791.2	788.4	778.1
27.5°	806.1	808.0	813.6	812.7	813.6	808.0	806.1	802.4	776.2	773.4	766.0
30°	788.4	786.5	781.9	778.1	781.9	786.5	788.4	782.8	756.6	749.2	751.0
32.5°	758.5	753.8	749.2	746.4	749.2	753.8	758.5	756.6	737.0	726.7	728.6
35°	723.0	723.9	723.0	720.2	723.0	723.9	723.0	724.9	712.7	703.4	702.5
37.5°	697.8	699.7	698.7	695.0	698.7	699.7	697.8	695.9	679.1	676.3	678.2
40°	671.6	672.6	671.6	668.8	671.6	672.6	671.6	667.9	644.6	645.5	652.0
42.5°	646.4	645.5	642.7	640.8	642.7	645.5	646.4	640.8	610.9	608.1	620.3
45°	617.5	618.4	612.8	610.0	612.8	618.4	617.5	613.7	582.9	575.4	583.8
47.5°	588.5	588.5	583.8	581.0	583.8	588.5	588.5	583.8	551.2	543.7	548.4
50°	557.7	556.8	550.2	549.3	550.2	556.8	557.7	554.9	520.3	513.8	513.8
52.5°	522.2	522.2	523.1	525.0	523.1	522.2	522.2	523.1	492.3	485.8	483.9
55°	491.4	492.3	498.8	500.7	498.8	492.3	491.4	491.4	463.4	456.8	453.1
57.5°	459.6	459.6	464.3	464.3	464.3	459.6	459.6	457.8	430.7	425.1	423.2
60°	423.2	425.1	428.8	427.9	428.8	425.1	423.2	421.3	398.0	394.2	387.7
62.5°	384.9	386.8	387.7	385.8	387.7	386.8	384.9	379.3	365.3	362.5	354.1
65°	344.7	346.6	347.5	345.7	347.5	346.6	344.7	341.9	331.6	326.9	319.4
67.5°	303.6	302.6	301.7	305.4	301.7	302.6	303.6	299.8	293.3	289.5	279.3
70°	261.5	261.5	260.6	262.5	260.6	261.5	261.5	258.7	255.0	252.2	242.8
72.5°	216.7	215.8	219.5	216.7	219.5	215.8	216.7	215.8	213.9	211.1	201.7
75°	172.8	174.7	172.8	175.6	172.8	174.7	172.8	173.7	172.8	170.9	164.4
77.5°	131.7	133.6	131.7	131.7	131.7	133.6	131.7	132.6	132.6	132.6	127.0
80°	93.4	92.5	92.5	91.5	92.5	92.5	93.4	93.4	94.3	92.5	90.6
82.5°	59.8	58.8	58.8	60.7	58.8	58.8	59.8	60.7	58.8	58.8	58.8
85°	32.7	33.6	31.8	31.8	31.8	33.6	32.7	30.8	32.7	32.7	31.8
87.5°	12.1	11.2	11.2	11.2	11.2	11.2	12.1	13.1	13.1	13.1	14.0
90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	6.4	7.1	6.1
92.5°	17.7	17.0	14.2	11.4	14.2	17.0	17.7	25.2	35.1	40.1	35.2
95°	60.3	58.2	49.7	41.1	49.7	58.2	60.3	79.2	104.4	117.0	98.8
97.5°	139.3	135.1	118.9	102.6	118.9	135.1	139.3	151.2	167.2	175.1	144.8
100°	195.6	190.7	171.4	152.0	171.4	190.7	195.6	194.7	193.5	193.0	159.3
102.5°	243.7	239.5	222.9	206.2	222.9	239.5	243.7	228.5	208.2	198.0	163.9
105°	299.8	297.6	288.7	279.7	288.7	297.6	299.8	265.7	220.2	197.4	164.4
107.5°	329.0	329.6	331.8	333.9	331.8	329.6	329.0	281.4	218.0	186.2	157.1
110°	336.5	338.9	348.1	357.4	348.1	338.9	336.5	283.3	212.4	176.9	150.7



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CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	331.8	335.3	349.6	363.9	349.6	335.3	331.8	277.3	204.7	168.4	145.0
115°	315.5	320.5	340.3	360.2	340.3	320.5	315.5	263.1	193.2	158.2	138.5
117.5°	293.2	298.7	320.6	342.7	320.6	298.7	293.2	245.8	182.8	151.2	134.4
120°	278.1	283.5	304.9	326.2	304.9	283.5	278.1	234.9	177.2	148.3	133.0
122.5°	263.0	268.2	289.4	310.5	289.4	268.2	263.0	224.1	172.1	146.2	132.3
125°	243.1	248.0	267.4	286.8	267.4	248.0	243.1	210.1	165.9	143.8	131.7
127.5°	227.1	231.3	247.6	263.9	247.6	231.3	227.1	198.8	160.8	141.9	131.3
130°	217.1	220.8	235.9	251.1	235.9	220.8	217.1	191.8	158.0	141.1	131.6
132.5°	208.5	211.8	225.4	238.9	225.4	211.8	208.5	185.8	155.6	140.5	131.7
135°	196.2	199.1	210.9	222.6	210.9	199.1	196.2	177.3	152.0	139.4	131.6
137.5°	187.3	189.7	199.2	208.8	199.2	189.7	187.3	171.2	149.8	139.2	132.3
140°	180.1	182.3	191.2	200.2	191.2	182.3	180.1	166.3	147.8	138.5	132.5
142.5°	175.0	177.0	184.7	192.3	184.7	177.0	175.0	162.9	146.6	138.5	133.0
145°	167.5	169.0	174.8	180.5	174.8	169.0	167.5	157.5	144.2	137.6	133.0
147.5°	161.1	162.3	167.1	171.9	167.1	162.3	161.1	153.3	142.8	137.6	133.9
150°	157.5	158.4	162.3	166.3	162.3	158.4	157.5	150.8	142.0	137.6	134.4
152.5°	154.6	155.3	158.2	161.2	158.2	155.3	154.6	148.9	141.3	137.6	134.7
155°	151.1	151.6	153.5	155.5	153.5	151.6	151.1	146.6	140.6	137.6	135.3
157.5°	148.0	148.4	149.8	151.2	149.8	148.4	148.0	144.6	139.9	137.6	136.1
160°	146.5	146.7	147.6	148.3	147.6	146.7	146.5	143.6	139.5	137.6	136.4
162.5°	145.1	145.3	146.1	146.8	146.1	145.3	145.1	142.6	139.3	137.6	136.7
165°	143.0	143.2	144.0	144.8	144.0	143.2	143.0	141.2	138.8	137.6	137.2
167.5°	142.1	142.2	142.4	142.8	142.4	142.2	142.1	140.8	139.3	138.5	138.1
170°	142.1	142.1	142.1	142.1	142.1	142.1	142.1	140.8	139.3	138.5	138.5
172.5°	141.3	141.2	140.9	140.7	140.9	141.2	141.3	140.4	139.2	138.5	138.5
175°	140.3	140.3	140.3	140.3	140.3	140.3	140.3	139.7	138.9	138.5	138.7
177.5°	140.1	140.0	139.7	139.4	139.7	140.0	140.1	139.6	139.0	138.7	138.9
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	987.3	987.3	987.3	987.3	987.3
2.5°	975.2	979.9	982.7	986.4	995.7
5°	937.8	955.6	961.2	975.2	992.0
7.5°	855.6	909.8	924.8	958.4	984.5
10°	776.2	830.4	856.6	936.0	975.2
12.5°	736.1	767.8	785.6	896.7	962.1
15°	710.9	733.3	746.4	844.4	947.2
17.5°	691.3	707.1	716.5	793.1	926.6
20°	679.1	686.6	695.0	755.7	903.3
22.5°	670.7	666.0	672.6	729.5	871.5
25°	665.1	647.4	654.8	709.0	834.2
27.5°	669.8	630.5	633.3	690.3	794.9
30°	670.7	610.0	610.9	670.7	751.0
32.5°	664.2	588.5	589.4	646.4	701.5
35°	648.3	563.3	562.4	618.4	634.3
37.5°	626.8	536.2	536.2	587.6	560.5
40°	600.7	509.1	511.9	547.4	495.1
42.5°	568.9	480.2	483.9	494.2	446.5
45°	534.3	452.1	455.0	417.6	409.2
47.5°	496.0	423.2	424.1	346.6	397.0
50°	450.3	393.3	389.6	297.0	396.1
52.5°	410.1	360.6	349.4	269.0	359.7
55°	370.9	326.0	301.7	247.5	333.5
57.5°	336.3	281.1	257.8	222.3	327.8
60°	304.5	237.2	219.5	195.2	300.7
62.5°	278.3	204.5	200.8	176.5	272.7
65°	250.3	182.1	181.2	160.6	231.6
67.5°	223.2	167.2	166.3	145.7	176.5
70°	194.3	151.3	149.4	129.8	130.8
72.5°	164.4	133.6	131.7	116.8	108.3
75°	134.5	113.0	112.1	101.8	87.8
77.5°	105.5	89.7	91.5	82.2	64.4
80°	75.7	65.4	67.2	58.8	48.6
82.5°	50.4	43.0	44.8	37.4	32.7
85°	28.0	24.3	25.2	19.6	14.9
87.5°	13.1	11.2	11.2	7.5	4.7
90°	4.1	2.6	2.4	1.7	0.9
92.5°	25.4	18.0	16.4	10.1	3.7
95°	62.5	35.2	32.3	20.6	9.0
97.5°	84.2	38.7	36.1	25.8	15.5
100°	92.0	41.6	39.2	29.9	20.5
102.5°	95.6	44.5	42.3	33.5	24.8
105°	98.4	48.8	46.9	39.6	32.2
107.5°	98.8	55.1	53.4	46.5	39.7
110°	98.1	58.7	57.1	50.9	44.7



TEST NUMBER: P934006

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	98.1	63.0	61.5	55.6	49.7
115°	99.0	69.4	68.0	62.6	57.2
117.5°	100.9	75.7	74.4	69.5	64.5
120°	102.3	79.3	78.2	73.5	68.8
122.5°	104.4	83.6	82.4	77.7	73.0
125°	107.4	89.2	88.1	83.8	79.5
127.5°	110.3	94.5	93.4	89.1	84.7
130°	112.5	98.1	96.9	92.2	87.5
132.5°	114.1	101.0	99.8	95.2	90.5
135°	116.0	104.3	103.3	99.0	94.8
137.5°	118.8	108.6	107.6	103.4	99.2
140°	120.5	111.5	110.6	106.7	102.8
142.5°	122.0	113.7	112.7	109.2	105.6
145°	123.8	116.9	116.2	113.0	109.9
147.5°	126.6	121.0	120.3	117.2	114.2
150°	128.0	123.2	122.5	119.7	117.0
152.5°	128.9	124.6	124.0	122.0	119.9
155°	130.9	127.7	127.3	125.7	124.2
157.5°	133.0	130.8	130.4	128.9	127.4
160°	133.9	132.2	131.9	130.7	129.5
162.5°	135.0	133.7	133.5	132.5	131.7
165°	136.4	135.8	135.6	134.8	134.0
167.5°	137.5	137.0	136.9	136.6	136.2
170°	138.4	138.4	138.3	138.0	137.6
172.5°	138.5	138.5	138.5	138.4	138.3
175°	139.1	139.4	139.4	139.4	139.4
177.5°	139.2	139.4	139.4	139.4	139.4
180°	139.4	139.4	139.4	139.4	139.4



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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	14.45	15.58	15.17	16.32	17.21	17.25	18.38	17.97	19.12	20.00
	3H	14.95	15.96	15.69	16.71	17.63	18.61	19.62	19.34	20.37	21.29
	4H	15.15	16.11	15.91	16.87	17.80	19.06	20.01	19.81	20.77	21.70
	6H	15.29	16.17	16.05	16.94	17.88	19.35	20.23	20.11	21.00	21.94
	8H	15.30	16.14	16.07	16.93	17.87	19.43	20.27	20.20	21.05	22.00
	12H	15.28	16.08	16.06	16.86	17.83	19.47	20.27	20.25	21.05	22.02
4H	2H	15.51	16.47	16.27	17.23	18.15	17.70	18.65	18.45	19.41	20.34
	3H	16.56	17.36	17.33	18.15	19.10	19.22	20.01	19.98	20.81	21.75
	4H	16.85	17.57	17.63	18.37	19.34	19.75	20.47	20.53	21.27	22.24
	6H	16.99	17.62	17.79	18.44	19.42	20.12	20.75	20.92	21.57	22.55
	8H	17.00	17.59	17.81	18.40	19.40	20.23	20.81	21.03	21.63	22.62
	12H	16.98	17.51	17.81	18.35	19.34	20.29	20.82	21.12	21.66	22.65
8H	4H	17.32	17.90	18.12	18.72	19.71	19.89	20.48	20.70	21.30	22.29
	6H	17.59	18.08	18.43	18.93	19.93	20.33	20.82	21.17	21.68	22.67
	8H	17.64	18.07	18.48	18.92	19.93	20.48	20.91	21.33	21.77	22.78
	12H	17.63	18.01	18.48	18.86	19.92	20.59	20.97	21.44	21.81	22.88
12H	4H	17.34	17.86	18.16	18.70	19.70	19.87	20.40	20.70	21.24	22.23
	6H	17.65	18.08	18.50	18.94	19.95	20.33	20.76	21.18	21.62	22.63
	8H	17.73	18.11	18.58	18.96	20.02	20.50	20.88	21.35	21.73	22.79