

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: P933934

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933934
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-92765-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

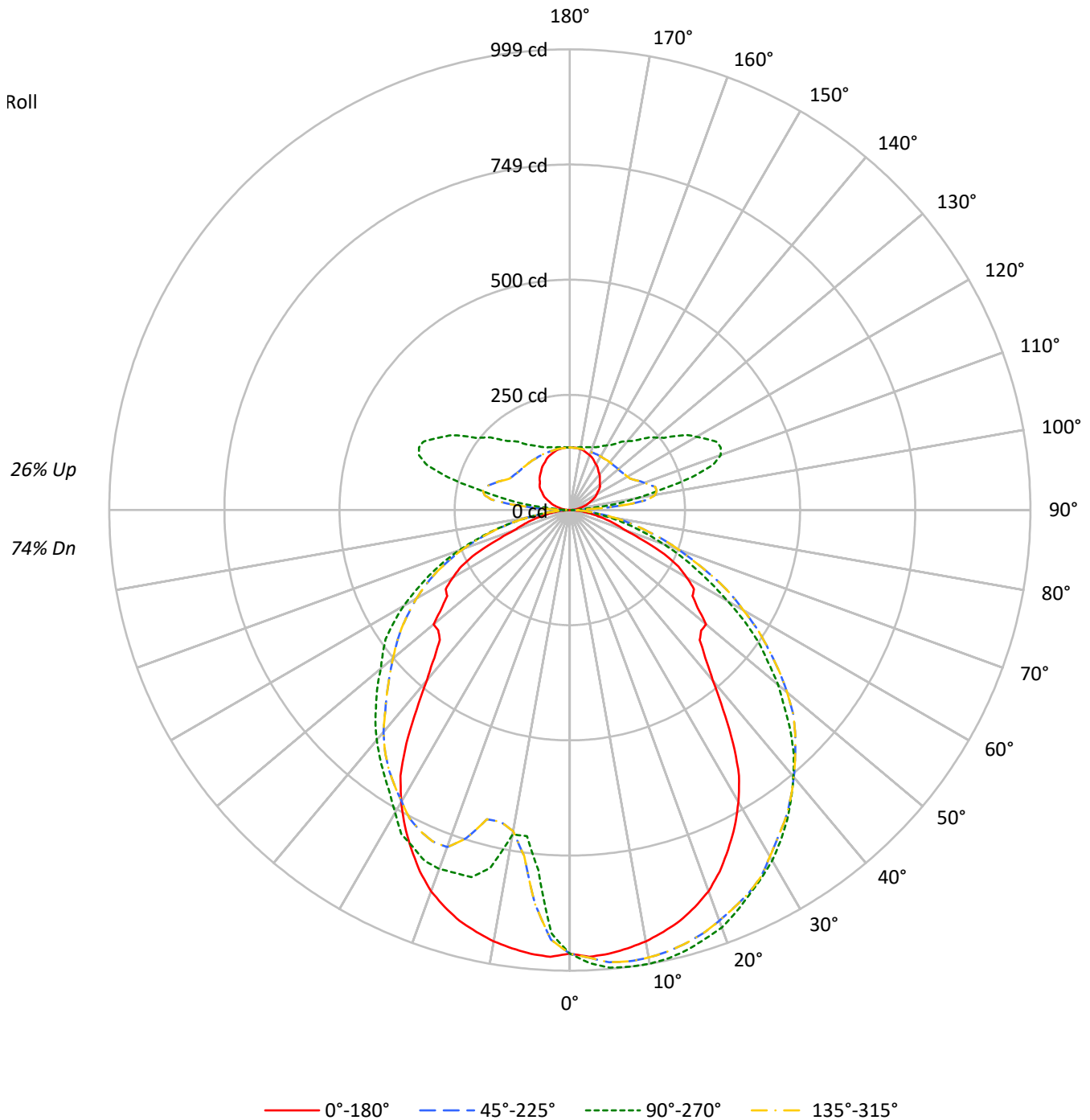
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3373.8 lumens
Efficiency: N/A
Efficacy: 112.5 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: P933934
CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-4000K

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	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°	8923	8923	8923	8923
5°	8979	9008	8979	7083
10°	8910	8873	8910	6344
15°	8803	8681	8803	7248
20°	8608	8452	8608	7264
25°	8222	8120	8222	7109
30°	7725	7845	7725	6772
35°	6877	7496	6877	6400
40°	5721	7086	5721	6120
45°	5102	6605	5102	5797
50°	5408	6031	5408	5474
55°	5073	5414	5073	5287
60°	5210	4599	5210	4842
65°	4701	3801	4701	4250
70°	3232	3029	3232	3561
75°	2804	2239	2804	2681
80°	2214	1481	2214	1611
85°	1209	784	1209	666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7834 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	2.6
10°-20°	246.5	7.3
20°-30°	381.0	11.3
30°-40°	454.8	13.5
40°-50°	457.5	13.6
50°-60°	398.1	11.8
60°-70°	282.2	8.4
70°-80°	149.3	4.4
80°-90°	37.7	1.1
90°-100°	66.2	2.0
100°-110°	174.0	5.2
110°-120°	180.4	5.3
120°-130°	144.7	4.3
130°-140°	113.5	3.4
140°-150°	87.1	2.6
150°-160°	62.7	1.9
160°-170°	38.4	1.1
170°-180°	13.0	0.4
0°-30°	714.2	21.2
0°-40°	1169.0	34.7
0°-60°	2024.6	60.0
0°-90°	2493.8	73.9
90°-120°	420.5	12.5
90°-150°	765.9	22.7
90°-180°	880.0	26.1
0°-180°	3373.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	962	962	962	962	962	
5°	966	996	966	783	966	92
15°	922	987	922	824	922	260
25°	812	921	812	806	812	373
35°	618	822	618	701	618	382
45°	398	677	398	594	398	319
55°	325	500	325	488	325	298
65°	226	301	226	337	226	216
75°	86	143	86	171	86	90
85°	15	36	15	31	15	20
90°	1	4	1	4	1	1
95°	9	40	9	40	9	10
105°	31	272	31	272	31	33
115°	56	351	56	351	56	55
125°	77	279	77	279	77	69
135°	92	217	92	217	92	71
145°	107	176	107	176	107	67
155°	121	152	121	152	121	56
165°	130	141	130	141	130	37
175°	136	137	136	137	136	13
180°	136	136	136	136	136	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6
2.5°	969.8	969.8	975.3	977.1	977.1	974.4	971.7	974.4	982.6	985.3	984.4
5°	966.1	973.5	983.5	985.3	987.1	986.2	984.4	986.2	995.3	997.1	998.1
7.5°	958.8	972.6	985.3	988.0	990.8	988.0	987.1	989.0	998.1	999.9	999.9
10°	949.8	968.9	983.5	985.3	988.0	985.3	985.3	989.0	998.1	999.9	1000.8
12.5°	937.0	963.4	977.1	979.0	982.6	981.7	980.8	984.4	993.5	995.3	995.3
15°	922.5	953.4	966.1	967.9	974.4	972.6	972.6	976.2	986.2	989.0	988.0
17.5°	902.5	940.7	955.2	957.9	962.5	961.6	962.5	966.1	975.3	977.1	978.0
20°	879.7	923.4	940.7	943.4	947.9	947.9	947.9	952.5	961.6	965.2	965.2
22.5°	848.8	905.2	923.4	925.2	930.6	930.6	932.5	938.8	947.0	947.9	947.9
25°	812.4	885.2	900.6	906.1	911.5	914.3	917.0	920.6	923.4	922.5	923.4
27.5°	774.2	859.7	879.7	883.3	890.6	893.4	897.0	897.9	898.8	901.5	899.7
30°	731.4	824.2	854.2	857.9	869.7	871.5	867.9	869.7	874.3	876.1	877.9
32.5°	683.2	771.5	827.9	836.0	847.0	841.5	840.6	843.3	850.6	850.6	852.4
35°	617.7	730.5	803.3	810.6	818.8	812.4	816.0	816.9	821.5	824.2	823.3
37.5°	545.9	695.1	777.8	783.3	789.7	781.5	786.9	789.7	793.3	791.5	791.5
40°	482.2	639.6	747.8	751.5	756.9	750.5	756.0	757.8	759.6	757.8	756.9
42.5°	434.9	578.6	716.0	720.5	716.9	721.4	723.3	726.9	724.2	720.5	720.5
45°	398.5	562.2	681.4	686.9	681.4	688.7	691.4	691.4	683.2	681.4	680.5
47.5°	386.7	529.5	646.8	646.8	644.1	653.2	657.8	651.4	643.2	640.5	640.5
50°	385.8	493.1	599.5	595.9	608.6	619.6	615.0	608.6	602.3	592.3	592.3
52.5°	350.3	448.5	538.6	552.2	572.3	578.6	571.3	565.0	554.1	549.5	545.9
55°	324.8	402.2	483.1	510.4	531.3	539.5	525.9	519.5	503.1	500.4	498.6
57.5°	319.3	334.8	432.2	466.7	492.2	491.3	483.1	471.3	457.6	454.9	454.0
60°	292.9	242.0	377.6	418.5	444.9	442.2	434.9	424.0	411.2	409.4	407.6
62.5°	265.6	175.6	315.6	362.1	399.4	398.5	392.1	375.8	366.7	362.1	358.5
65°	225.6	147.4	224.7	301.1	354.8	356.7	343.0	331.2	321.1	315.6	314.7
67.5°	171.9	120.1	151.9	251.1	312.0	310.2	292.9	287.4	274.7	272.0	266.5
70°	127.3	80.0	105.5	203.8	270.2	265.6	252.0	245.6	233.8	227.4	223.8
72.5°	105.5	64.6	77.3	158.3	227.4	222.0	210.1	202.8	192.8	187.4	183.7
75°	85.5	68.2	59.1	117.3	184.7	181.0	170.1	162.8	154.6	147.4	148.3
77.5°	62.8	63.7	47.3	86.4	146.5	141.0	134.6	125.5	121.9	114.6	114.6
80°	47.3	50.0	35.5	59.1	105.5	105.5	100.1	93.7	87.3	83.7	83.7
82.5°	31.8	31.8	26.4	37.3	71.9	69.1	65.5	63.7	60.0	58.2	58.2
85°	14.6	18.2	16.4	22.7	39.1	40.9	40.9	39.1	38.2	36.4	37.3
87.5°	4.5	8.2	10.0	12.7	20.0	20.9	21.8	21.8	21.8	22.7	22.7
90°	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6	3.5	3.5
92.5°	3.6	9.8	16.0	17.6	24.7	34.3	39.0	34.2	24.6	17.3	16.6
95°	8.7	20.1	31.5	34.3	60.9	96.2	114.0	101.7	77.1	58.8	56.7
97.5°	15.1	25.1	35.1	37.7	82.0	141.0	170.6	162.8	147.3	135.6	131.6
100°	20.0	29.1	38.2	40.5	89.6	155.2	187.9	188.5	189.7	190.5	185.7
102.5°	24.2	32.7	41.2	43.3	93.1	159.6	192.8	202.8	222.5	237.3	233.2
105°	31.4	38.6	45.7	47.5	95.8	160.1	192.3	214.5	258.8	292.0	289.8
107.5°	38.7	45.3	52.0	53.7	96.2	153.0	181.4	212.3	274.1	320.5	321.0
110°	43.6	49.6	55.6	57.1	95.5	146.7	172.3	206.9	275.9	327.7	330.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.4	54.1	59.9	61.3	95.5	141.2	164.0	199.4	270.1	323.1	326.6
115°	55.7	60.9	66.2	67.6	96.4	134.9	154.1	188.1	256.2	307.3	312.1
117.5°	62.9	67.7	72.5	73.7	98.2	130.9	147.3	178.0	239.4	285.5	290.9
120°	67.0	71.6	76.1	77.2	99.6	129.5	144.5	172.6	228.8	270.9	276.1
122.5°	71.1	75.7	80.2	81.4	101.7	128.8	142.4	167.6	218.2	256.2	261.2
125°	77.4	81.6	85.8	86.9	104.6	128.3	140.1	161.6	204.6	236.8	241.5
127.5°	82.5	86.8	91.0	92.1	107.4	127.9	138.2	156.6	193.6	221.2	225.2
130°	85.2	89.8	94.3	95.5	109.5	128.2	137.4	153.9	186.7	211.4	215.0
132.5°	88.1	92.7	97.2	98.3	111.2	128.3	136.8	151.5	180.9	203.0	206.3
135°	92.3	96.4	100.6	101.6	113.0	128.2	135.7	148.0	172.6	191.1	193.9
137.5°	96.6	100.7	104.8	105.8	115.7	128.9	135.5	145.9	166.7	182.4	184.7
140°	100.2	103.9	107.7	108.6	117.3	129.1	134.9	143.9	161.9	175.4	177.6
142.5°	102.9	106.3	109.8	110.7	118.8	129.5	134.9	142.8	158.6	170.5	172.4
145°	107.1	110.1	113.2	113.9	120.6	129.5	134.0	140.4	153.4	163.1	164.6
147.5°	111.2	114.2	117.2	117.9	123.3	130.4	134.0	139.1	149.3	156.9	158.1
150°	114.0	116.6	119.3	120.0	124.6	130.9	134.0	138.3	146.9	153.4	154.3
152.5°	116.8	118.8	120.8	121.3	125.5	131.2	134.0	137.6	145.0	150.5	151.3
155°	121.0	122.4	124.0	124.3	127.5	131.8	134.0	136.9	142.8	147.2	147.6
157.5°	124.1	125.5	127.0	127.3	129.5	132.5	134.0	136.3	140.8	144.2	144.5
160°	126.2	127.3	128.4	128.7	130.4	132.8	134.0	135.9	139.8	142.7	142.9
162.5°	128.3	129.1	130.0	130.2	131.4	133.2	134.0	135.6	138.9	141.4	141.5
165°	130.5	131.3	132.1	132.3	132.8	133.6	134.0	135.2	137.5	139.3	139.4
167.5°	132.6	133.0	133.4	133.4	133.9	134.5	134.9	135.6	137.2	138.4	138.4
170°	134.0	134.4	134.7	134.8	134.8	134.9	134.9	135.6	137.2	138.4	138.4
172.5°	134.7	134.8	134.9	134.9	134.9	134.9	134.9	135.5	136.7	137.6	137.5
175°	135.7	135.7	135.7	135.7	135.4	135.1	134.9	135.3	136.1	136.6	136.6
177.5°	135.7	135.7	135.7	135.7	135.5	135.3	135.1	135.4	136.0	136.4	136.4
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6
2.5°	986.2	983.5	986.2	984.4	985.3	982.6	974.4	971.7	974.4	977.1	977.1
5°	998.1	996.2	998.1	998.1	997.1	995.3	986.2	984.4	986.2	987.1	985.3
7.5°	1001.7	999.0	1001.7	999.9	999.9	998.1	989.0	987.1	988.0	990.8	988.0
10°	1001.7	999.0	1001.7	1000.8	999.9	998.1	989.0	985.3	985.3	988.0	985.3
12.5°	997.1	995.3	997.1	995.3	995.3	993.5	984.4	980.8	981.7	982.6	979.0
15°	989.9	987.1	989.9	988.0	989.0	986.2	976.2	972.6	972.6	974.4	967.9
17.5°	979.0	975.3	979.0	978.0	977.1	975.3	966.1	962.5	961.6	962.5	957.9
20°	966.1	963.4	966.1	965.2	965.2	961.6	952.5	947.9	947.9	947.9	943.4
22.5°	946.1	943.4	946.1	947.9	947.9	947.0	938.8	932.5	930.6	930.6	925.2
25°	923.4	920.6	923.4	923.4	922.5	923.4	920.6	917.0	914.3	911.5	906.1
27.5°	901.5	899.7	901.5	899.7	901.5	898.8	897.9	897.0	893.4	890.6	883.3
30°	879.7	877.9	879.7	877.9	876.1	874.3	869.7	867.9	871.5	869.7	857.9
32.5°	852.4	850.6	852.4	852.4	850.6	850.6	843.3	840.6	841.5	847.0	836.0
35°	824.2	821.5	824.2	823.3	824.2	821.5	816.9	816.0	812.4	818.8	810.6
37.5°	791.5	788.7	791.5	791.5	791.5	793.3	789.7	786.9	781.5	789.7	783.3
40°	757.8	754.2	757.8	756.9	757.8	759.6	757.8	756.0	750.5	756.9	751.5
42.5°	719.6	718.7	719.6	720.5	720.5	724.2	726.9	723.3	721.4	716.9	720.5
45°	678.7	676.9	678.7	680.5	681.4	683.2	691.4	691.4	688.7	681.4	686.9
47.5°	635.0	630.5	635.0	640.5	640.5	643.2	651.4	657.8	653.2	644.1	646.8
50°	588.6	589.5	588.6	592.3	592.3	602.3	608.6	615.0	619.6	608.6	595.9
52.5°	543.1	542.2	543.1	545.9	549.5	554.1	565.0	571.3	578.6	572.3	552.2
55°	497.7	499.5	497.7	498.6	500.4	503.1	519.5	525.9	539.5	531.3	510.4
57.5°	452.2	449.5	452.2	454.0	454.9	457.6	471.3	483.1	491.3	492.2	466.7
60°	399.4	395.8	399.4	407.6	409.4	411.2	424.0	434.9	442.2	444.9	418.5
62.5°	353.0	346.7	353.0	358.5	362.1	366.7	375.8	392.1	398.5	399.4	362.1
65°	303.8	301.1	303.8	314.7	315.6	321.1	331.2	343.0	356.7	354.8	301.1
67.5°	259.2	259.2	259.2	266.5	272.0	274.7	287.4	292.9	310.2	312.0	251.1
70°	218.3	217.4	218.3	223.8	227.4	233.8	245.6	252.0	265.6	270.2	203.8
72.5°	179.2	178.3	179.2	183.7	187.4	192.8	202.8	210.1	222.0	227.4	158.3
75°	144.6	142.8	144.6	148.3	147.4	154.6	162.8	170.1	181.0	184.7	117.3
77.5°	111.0	111.0	111.0	114.6	114.6	121.9	125.5	134.6	141.0	146.5	86.4
80°	82.8	81.9	82.8	83.7	83.7	87.3	93.7	100.1	105.5	105.5	59.1
82.5°	58.2	56.4	58.2	58.2	58.2	60.0	63.7	65.5	69.1	71.9	37.3
85°	36.4	36.4	36.4	37.3	36.4	38.2	39.1	40.9	40.9	39.1	22.7
87.5°	23.7	22.7	23.7	22.7	22.7	21.8	21.8	21.8	20.9	20.0	12.7
90°	3.5	3.5	3.5	3.5	3.5	4.6	6.2	6.9	5.9	4.0	2.5
92.5°	13.8	11.1	13.8	16.6	17.3	24.6	34.2	39.0	34.3	24.7	17.6
95°	48.4	40.0	48.4	56.7	58.8	77.1	101.7	114.0	96.2	60.9	34.3
97.5°	115.8	100.0	115.8	131.6	135.6	147.3	162.8	170.6	141.0	82.0	37.7
100°	166.9	148.0	166.9	185.7	190.5	189.7	188.5	187.9	155.2	89.6	40.5
102.5°	217.0	200.8	217.0	233.2	237.3	222.5	202.8	192.8	159.6	93.1	43.3
105°	281.2	272.4	281.2	289.8	292.0	258.8	214.5	192.3	160.1	95.8	47.5
107.5°	323.1	325.2	323.1	321.0	320.5	274.1	212.3	181.4	153.0	96.2	53.7
110°	339.0	348.1	339.0	330.0	327.7	275.9	206.9	172.3	146.7	95.5	57.1



TEST NUMBER: P933934

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	340.5	354.4	340.5	326.6	323.1	270.1	199.4	164.0	141.2	95.5	61.3
115°	331.5	350.8	331.5	312.1	307.3	256.2	188.1	154.1	134.9	96.4	67.6
117.5°	312.3	333.7	312.3	290.9	285.5	239.4	178.0	147.3	130.9	98.2	73.7
120°	296.9	317.6	296.9	276.1	270.9	228.8	172.6	144.5	129.5	99.6	77.2
122.5°	281.8	302.4	281.8	261.2	256.2	218.2	167.6	142.4	128.8	101.7	81.4
125°	260.4	279.3	260.4	241.5	236.8	204.6	161.6	140.1	128.3	104.6	86.9
127.5°	241.1	257.1	241.1	225.2	221.2	193.6	156.6	138.2	127.9	107.4	92.1
130°	229.8	244.5	229.8	215.0	211.4	186.7	153.9	137.4	128.2	109.5	95.5
132.5°	219.5	232.7	219.5	206.3	203.0	180.9	151.5	136.8	128.3	111.2	98.3
135°	205.4	216.8	205.4	193.9	191.1	172.6	148.0	135.7	128.2	113.0	101.6
137.5°	194.0	203.4	194.0	184.7	182.4	166.7	145.9	135.5	128.9	115.7	105.8
140°	186.2	194.9	186.2	177.6	175.4	161.9	143.9	134.9	129.1	117.3	108.6
142.5°	179.8	187.3	179.8	172.4	170.5	158.6	142.8	134.9	129.5	118.8	110.7
145°	170.2	175.8	170.2	164.6	163.1	153.4	140.4	134.0	129.5	120.6	113.9
147.5°	162.7	167.5	162.7	158.1	156.9	149.3	139.1	134.0	130.4	123.3	117.9
150°	158.1	161.9	158.1	154.3	153.4	146.9	138.3	134.0	130.9	124.6	120.0
152.5°	154.1	157.0	154.1	151.3	150.5	145.0	137.6	134.0	131.2	125.5	121.3
155°	149.5	151.5	149.5	147.6	147.2	142.8	136.9	134.0	131.8	127.5	124.3
157.5°	145.9	147.3	145.9	144.5	144.2	140.8	136.3	134.0	132.5	129.5	127.3
160°	143.7	144.5	143.7	142.9	142.7	139.8	135.9	134.0	132.8	130.4	128.7
162.5°	142.3	143.0	142.3	141.5	141.4	138.9	135.6	134.0	133.2	131.4	130.2
165°	140.3	141.0	140.3	139.4	139.3	137.5	135.2	134.0	133.6	132.8	132.3
167.5°	138.7	139.1	138.7	138.4	138.4	137.2	135.6	134.9	134.5	133.9	133.4
170°	138.4	138.4	138.4	138.4	138.4	137.2	135.6	134.9	134.9	134.8	134.8
172.5°	137.3	137.0	137.3	137.5	137.6	136.7	135.5	134.9	134.9	134.9	134.9
175°	136.6	136.6	136.6	136.6	136.6	136.1	135.3	134.9	135.1	135.4	135.7
177.5°	136.1	135.7	136.1	136.4	136.4	136.0	135.4	135.1	135.3	135.5	135.7
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



TEST NUMBER: P933934

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6
2.5°	975.3	969.8	969.8	960.7	957.0	954.3	949.8	936.1	932.5	928.8	934.3
5°	983.5	973.5	966.1	949.8	936.1	930.6	913.4	880.6	858.8	842.4	833.3
7.5°	985.3	972.6	958.8	933.4	900.6	886.1	833.3	773.3	756.9	742.4	733.3
10°	983.5	968.9	949.8	911.5	834.2	808.8	756.0	716.9	706.9	704.2	706.9
12.5°	977.1	963.4	937.0	873.3	765.1	747.8	716.9	694.1	692.3	696.9	721.4
15°	966.1	953.4	922.5	822.4	726.9	714.2	692.3	684.1	694.1	726.0	799.7
17.5°	955.2	940.7	902.5	772.4	697.8	688.7	673.2	689.6	746.0	788.7	813.3
20°	940.7	923.4	879.7	736.0	676.9	668.7	661.4	735.1	777.8	793.3	806.9
22.5°	923.4	905.2	848.8	710.5	655.0	648.7	653.2	760.5	777.8	788.7	800.6
25°	900.6	885.2	812.4	690.5	637.7	630.5	647.8	757.8	767.8	770.6	794.2
27.5°	879.7	859.7	774.2	672.3	616.8	614.1	652.3	746.0	753.3	756.0	781.5
30°	854.2	824.2	731.4	653.2	595.0	594.1	653.2	731.4	729.6	736.9	762.4
32.5°	827.9	771.5	683.2	629.6	574.1	573.2	646.8	709.6	707.8	717.8	736.9
35°	803.3	730.5	617.7	602.3	547.7	548.6	631.4	684.1	685.0	694.1	706.0
37.5°	777.8	695.1	545.9	572.3	522.2	522.2	610.5	660.5	658.7	661.4	677.8
40°	747.8	639.6	482.2	533.1	498.6	495.8	585.0	635.0	628.7	627.7	650.5
42.5°	716.0	578.6	434.9	481.3	471.3	467.6	554.1	604.1	592.3	595.0	624.1
45°	681.4	562.2	398.5	406.7	443.1	440.4	520.4	568.6	560.4	567.7	597.7
47.5°	646.8	529.5	386.7	337.6	413.1	412.2	483.1	534.0	529.5	536.8	568.6
50°	599.5	493.1	385.8	289.3	379.4	383.0	438.5	500.4	500.4	506.8	540.4
52.5°	538.6	448.5	350.3	262.0	340.3	351.2	399.4	471.3	473.1	479.5	509.5
55°	483.1	402.2	324.8	241.1	293.8	317.5	361.2	441.3	444.9	451.3	478.6
57.5°	432.2	334.8	319.3	216.5	251.1	273.8	327.6	412.2	414.0	419.4	445.8
60°	377.6	242.0	292.9	190.1	213.8	231.0	296.5	377.6	384.0	387.6	410.3
62.5°	315.6	175.6	265.6	171.9	195.6	199.2	271.1	344.8	353.0	355.8	369.4
65°	224.7	147.4	225.6	156.5	176.5	177.4	243.8	311.1	318.4	322.9	333.0
67.5°	151.9	120.1	171.9	141.9	161.9	162.8	217.4	272.0	282.0	285.6	292.0
70°	105.5	80.0	127.3	126.4	145.5	147.4	189.2	236.5	245.6	248.3	252.0
72.5°	77.3	64.6	105.5	113.7	128.3	130.1	160.1	196.5	205.6	208.3	210.1
75°	59.1	68.2	85.5	99.2	109.2	110.1	131.0	160.1	166.5	168.3	169.2
77.5°	47.3	63.7	62.8	80.0	89.1	87.3	102.8	123.7	129.2	129.2	129.2
80°	35.5	50.0	47.3	57.3	65.5	63.7	73.7	88.2	90.1	91.9	91.0
82.5°	26.4	31.8	31.8	36.4	43.7	41.8	49.1	57.3	57.3	57.3	59.1
85°	16.4	18.2	14.6	19.1	24.6	23.7	27.3	30.9	31.8	31.8	30.0
87.5°	10.0	8.2	4.5	7.3	10.9	10.9	12.7	13.6	12.7	12.7	12.7
90°	2.4	1.6	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6
92.5°	16.0	9.8	3.6	9.8	16.0	17.6	24.7	34.3	39.0	34.2	24.6
95°	31.5	20.1	8.7	20.1	31.5	34.3	60.9	96.2	114.0	101.7	77.1
97.5°	35.1	25.1	15.1	25.1	35.1	37.7	82.0	141.0	170.6	162.8	147.3
100°	38.2	29.1	20.0	29.1	38.2	40.5	89.6	155.2	187.9	188.5	189.7
102.5°	41.2	32.7	24.2	32.7	41.2	43.3	93.1	159.6	192.8	202.8	222.5
105°	45.7	38.6	31.4	38.6	45.7	47.5	95.8	160.1	192.3	214.5	258.8
107.5°	52.0	45.3	38.7	45.3	52.0	53.7	96.2	153.0	181.4	212.3	274.1
110°	55.6	49.6	43.6	49.6	55.6	57.1	95.5	146.7	172.3	206.9	275.9



TEST NUMBER: P933934

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	59.9	54.1	48.4	54.1	59.9	61.3	95.5	141.2	164.0	199.4	270.1
115°	66.2	60.9	55.7	60.9	66.2	67.6	96.4	134.9	154.1	188.1	256.2
117.5°	72.5	67.7	62.9	67.7	72.5	73.7	98.2	130.9	147.3	178.0	239.4
120°	76.1	71.6	67.0	71.6	76.1	77.2	99.6	129.5	144.5	172.6	228.8
122.5°	80.2	75.7	71.1	75.7	80.2	81.4	101.7	128.8	142.4	167.6	218.2
125°	85.8	81.6	77.4	81.6	85.8	86.9	104.6	128.3	140.1	161.6	204.6
127.5°	91.0	86.8	82.5	86.8	91.0	92.1	107.4	127.9	138.2	156.6	193.6
130°	94.3	89.8	85.2	89.8	94.3	95.5	109.5	128.2	137.4	153.9	186.7
132.5°	97.2	92.7	88.1	92.7	97.2	98.3	111.2	128.3	136.8	151.5	180.9
135°	100.6	96.4	92.3	96.4	100.6	101.6	113.0	128.2	135.7	148.0	172.6
137.5°	104.8	100.7	96.6	100.7	104.8	105.8	115.7	128.9	135.5	145.9	166.7
140°	107.7	103.9	100.2	103.9	107.7	108.6	117.3	129.1	134.9	143.9	161.9
142.5°	109.8	106.3	102.9	106.3	109.8	110.7	118.8	129.5	134.9	142.8	158.6
145°	113.2	110.1	107.1	110.1	113.2	113.9	120.6	129.5	134.0	140.4	153.4
147.5°	117.2	114.2	111.2	114.2	117.2	117.9	123.3	130.4	134.0	139.1	149.3
150°	119.3	116.6	114.0	116.6	119.3	120.0	124.6	130.9	134.0	138.3	146.9
152.5°	120.8	118.8	116.8	118.8	120.8	121.3	125.5	131.2	134.0	137.6	145.0
155°	124.0	122.4	121.0	122.4	124.0	124.3	127.5	131.8	134.0	136.9	142.8
157.5°	127.0	125.5	124.1	125.5	127.0	127.3	129.5	132.5	134.0	136.3	140.8
160°	128.4	127.3	126.2	127.3	128.4	128.7	130.4	132.8	134.0	135.9	139.8
162.5°	130.0	129.1	128.3	129.1	130.0	130.2	131.4	133.2	134.0	135.6	138.9
165°	132.1	131.3	130.5	131.3	132.1	132.3	132.8	133.6	134.0	135.2	137.5
167.5°	133.4	133.0	132.6	133.0	133.4	133.4	133.9	134.5	134.9	135.6	137.2
170°	134.7	134.4	134.0	134.4	134.7	134.8	134.8	134.9	134.9	135.6	137.2
172.5°	134.9	134.8	134.7	134.8	134.9	134.9	134.9	134.9	134.9	135.5	136.7
175°	135.7	135.7	135.7	135.7	135.7	135.7	135.4	135.1	134.9	135.3	136.1
177.5°	135.7	135.7	135.7	135.7	135.7	135.7	135.5	135.3	135.1	135.4	136.0
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



TEST NUMBER: P933934

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6
2.5°	927.9	925.2	928.8	918.8	928.8	925.2	927.9	934.3	928.8	932.5	936.1
5°	814.2	809.7	795.1	783.3	795.1	809.7	814.2	833.3	842.4	858.8	880.6
7.5°	727.8	724.2	720.5	713.2	720.5	724.2	727.8	733.3	742.4	756.9	773.3
10°	708.7	709.6	715.1	714.2	715.1	709.6	708.7	706.9	704.2	706.9	716.9
12.5°	757.8	766.0	796.0	794.2	796.0	766.0	757.8	721.4	696.9	692.3	694.1
15°	814.2	816.9	823.3	824.2	823.3	816.9	814.2	799.7	726.0	694.1	684.1
17.5°	819.7	820.6	825.1	825.1	825.1	820.6	819.7	813.3	788.7	746.0	689.6
20°	815.1	816.9	826.0	827.9	826.0	816.9	815.1	806.9	793.3	777.8	735.1
22.5°	813.3	816.9	824.2	823.3	824.2	816.9	813.3	800.6	788.7	777.8	760.5
25°	804.2	804.2	805.1	806.0	805.1	804.2	804.2	794.2	770.6	767.8	757.8
27.5°	785.1	786.9	792.4	791.5	792.4	786.9	785.1	781.5	756.0	753.3	746.0
30°	767.8	766.0	761.5	757.8	761.5	766.0	767.8	762.4	736.9	729.6	731.4
32.5°	738.7	734.2	729.6	726.9	729.6	734.2	738.7	736.9	717.8	707.8	709.6
35°	704.2	705.1	704.2	701.4	704.2	705.1	704.2	706.0	694.1	685.0	684.1
37.5°	679.6	681.4	680.5	676.9	680.5	681.4	679.6	677.8	661.4	658.7	660.5
40°	654.1	655.0	654.1	651.4	654.1	655.0	654.1	650.5	627.7	628.7	635.0
42.5°	629.6	628.7	625.9	624.1	625.9	628.7	629.6	624.1	595.0	592.3	604.1
45°	601.4	602.3	596.8	594.1	596.8	602.3	601.4	597.7	567.7	560.4	568.6
47.5°	573.2	573.2	568.6	565.9	568.6	573.2	573.2	568.6	536.8	529.5	534.0
50°	543.1	542.2	535.9	535.0	535.9	542.2	543.1	540.4	506.8	500.4	500.4
52.5°	508.6	508.6	509.5	511.3	509.5	508.6	508.6	509.5	479.5	473.1	471.3
55°	478.6	479.5	485.8	487.7	485.8	479.5	478.6	478.6	451.3	444.9	441.3
57.5°	447.6	447.6	452.2	452.2	452.2	447.6	447.6	445.8	419.4	414.0	412.2
60°	412.2	414.0	417.6	416.7	417.6	414.0	412.2	410.3	387.6	384.0	377.6
62.5°	374.9	376.7	377.6	375.8	377.6	376.7	374.9	369.4	355.8	353.0	344.8
65°	335.7	337.6	338.5	336.7	338.5	337.6	335.7	333.0	322.9	318.4	311.1
67.5°	295.6	294.7	293.8	297.5	293.8	294.7	295.6	292.0	285.6	282.0	272.0
70°	254.7	254.7	253.8	255.6	253.8	254.7	254.7	252.0	248.3	245.6	236.5
72.5°	211.0	210.1	213.8	211.0	213.8	210.1	211.0	210.1	208.3	205.6	196.5
75°	168.3	170.1	168.3	171.0	168.3	170.1	168.3	169.2	168.3	166.5	160.1
77.5°	128.3	130.1	128.3	128.3	128.3	130.1	128.3	129.2	129.2	129.2	123.7
80°	91.0	90.1	90.1	89.1	90.1	90.1	91.0	91.0	91.9	90.1	88.2
82.5°	58.2	57.3	57.3	59.1	57.3	57.3	58.2	59.1	57.3	57.3	57.3
85°	31.8	32.7	30.9	30.9	30.9	32.7	31.8	30.0	31.8	31.8	30.9
87.5°	11.8	10.9	10.9	10.9	10.9	10.9	11.8	12.7	12.7	12.7	13.6
90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	6.2	6.9	5.9
92.5°	17.3	16.6	13.8	11.1	13.8	16.6	17.3	24.6	34.2	39.0	34.3
95°	58.8	56.7	48.4	40.0	48.4	56.7	58.8	77.1	101.7	114.0	96.2
97.5°	135.6	131.6	115.8	100.0	115.8	131.6	135.6	147.3	162.8	170.6	141.0
100°	190.5	185.7	166.9	148.0	166.9	185.7	190.5	189.7	188.5	187.9	155.2
102.5°	237.3	233.2	217.0	200.8	217.0	233.2	237.3	222.5	202.8	192.8	159.6
105°	292.0	289.8	281.2	272.4	281.2	289.8	292.0	258.8	214.5	192.3	160.1
107.5°	320.5	321.0	323.1	325.2	323.1	321.0	320.5	274.1	212.3	181.4	153.0
110°	327.7	330.0	339.0	348.1	339.0	330.0	327.7	275.9	206.9	172.3	146.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	323.1	326.6	340.5	354.4	340.5	326.6	323.1	270.1	199.4	164.0	141.2
115°	307.3	312.1	331.5	350.8	331.5	312.1	307.3	256.2	188.1	154.1	134.9
117.5°	285.5	290.9	312.3	333.7	312.3	290.9	285.5	239.4	178.0	147.3	130.9
120°	270.9	276.1	296.9	317.6	296.9	276.1	270.9	228.8	172.6	144.5	129.5
122.5°	256.2	261.2	281.8	302.4	281.8	261.2	256.2	218.2	167.6	142.4	128.8
125°	236.8	241.5	260.4	279.3	260.4	241.5	236.8	204.6	161.6	140.1	128.3
127.5°	221.2	225.2	241.1	257.1	241.1	225.2	221.2	193.6	156.6	138.2	127.9
130°	211.4	215.0	229.8	244.5	229.8	215.0	211.4	186.7	153.9	137.4	128.2
132.5°	203.0	206.3	219.5	232.7	219.5	206.3	203.0	180.9	151.5	136.8	128.3
135°	191.1	193.9	205.4	216.8	205.4	193.9	191.1	172.6	148.0	135.7	128.2
137.5°	182.4	184.7	194.0	203.4	194.0	184.7	182.4	166.7	145.9	135.5	128.9
140°	175.4	177.6	186.2	194.9	186.2	177.6	175.4	161.9	143.9	134.9	129.1
142.5°	170.5	172.4	179.8	187.3	179.8	172.4	170.5	158.6	142.8	134.9	129.5
145°	163.1	164.6	170.2	175.8	170.2	164.6	163.1	153.4	140.4	134.0	129.5
147.5°	156.9	158.1	162.7	167.5	162.7	158.1	156.9	149.3	139.1	134.0	130.4
150°	153.4	154.3	158.1	161.9	158.1	154.3	153.4	146.9	138.3	134.0	130.9
152.5°	150.5	151.3	154.1	157.0	154.1	151.3	150.5	145.0	137.6	134.0	131.2
155°	147.2	147.6	149.5	151.5	149.5	147.6	147.2	142.8	136.9	134.0	131.8
157.5°	144.2	144.5	145.9	147.3	145.9	144.5	144.2	140.8	136.3	134.0	132.5
160°	142.7	142.9	143.7	144.5	143.7	142.9	142.7	139.8	135.9	134.0	132.8
162.5°	141.4	141.5	142.3	143.0	142.3	141.5	141.4	138.9	135.6	134.0	133.2
165°	139.3	139.4	140.3	141.0	140.3	139.4	139.3	137.5	135.2	134.0	133.6
167.5°	138.4	138.4	138.7	139.1	138.7	138.4	138.4	137.2	135.6	134.9	134.5
170°	138.4	138.4	138.4	138.4	138.4	138.4	138.4	137.2	135.6	134.9	134.9
172.5°	137.6	137.5	137.3	137.0	137.3	137.5	137.6	136.7	135.5	134.9	134.9
175°	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.1	135.3	134.9	135.1
177.5°	136.4	136.4	136.1	135.7	136.1	136.4	136.4	136.0	135.4	135.1	135.3
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	961.6	961.6	961.6	961.6	961.6
2.5°	949.8	954.3	957.0	960.7	969.8
5°	913.4	930.6	936.1	949.8	966.1
7.5°	833.3	886.1	900.6	933.4	958.8
10°	756.0	808.8	834.2	911.5	949.8
12.5°	716.9	747.8	765.1	873.3	937.0
15°	692.3	714.2	726.9	822.4	922.5
17.5°	673.2	688.7	697.8	772.4	902.5
20°	661.4	668.7	676.9	736.0	879.7
22.5°	653.2	648.7	655.0	710.5	848.8
25°	647.8	630.5	637.7	690.5	812.4
27.5°	652.3	614.1	616.8	672.3	774.2
30°	653.2	594.1	595.0	653.2	731.4
32.5°	646.8	573.2	574.1	629.6	683.2
35°	631.4	548.6	547.7	602.3	617.7
37.5°	610.5	522.2	522.2	572.3	545.9
40°	585.0	495.8	498.6	533.1	482.2
42.5°	554.1	467.6	471.3	481.3	434.9
45°	520.4	440.4	443.1	406.7	398.5
47.5°	483.1	412.2	413.1	337.6	386.7
50°	438.5	383.0	379.4	289.3	385.8
52.5°	399.4	351.2	340.3	262.0	350.3
55°	361.2	317.5	293.8	241.1	324.8
57.5°	327.6	273.8	251.1	216.5	319.3
60°	296.5	231.0	213.8	190.1	292.9
62.5°	271.1	199.2	195.6	171.9	265.6
65°	243.8	177.4	176.5	156.5	225.6
67.5°	217.4	162.8	161.9	141.9	171.9
70°	189.2	147.4	145.5	126.4	127.3
72.5°	160.1	130.1	128.3	113.7	105.5
75°	131.0	110.1	109.2	99.2	85.5
77.5°	102.8	87.3	89.1	80.0	62.8
80°	73.7	63.7	65.5	57.3	47.3
82.5°	49.1	41.8	43.7	36.4	31.8
85°	27.3	23.7	24.6	19.1	14.6
87.5°	12.7	10.9	10.9	7.3	4.5
90°	4.0	2.5	2.4	1.6	0.9
92.5°	24.7	17.6	16.0	9.8	3.6
95°	60.9	34.3	31.5	20.1	8.7
97.5°	82.0	37.7	35.1	25.1	15.1
100°	89.6	40.5	38.2	29.1	20.0
102.5°	93.1	43.3	41.2	32.7	24.2
105°	95.8	47.5	45.7	38.6	31.4
107.5°	96.2	53.7	52.0	45.3	38.7
110°	95.5	57.1	55.6	49.6	43.6



TEST NUMBER: P933934

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	95.5	61.3	59.9	54.1	48.4
115°	96.4	67.6	66.2	60.9	55.7
117.5°	98.2	73.7	72.5	67.7	62.9
120°	99.6	77.2	76.1	71.6	67.0
122.5°	101.7	81.4	80.2	75.7	71.1
125°	104.6	86.9	85.8	81.6	77.4
127.5°	107.4	92.1	91.0	86.8	82.5
130°	109.5	95.5	94.3	89.8	85.2
132.5°	111.2	98.3	97.2	92.7	88.1
135°	113.0	101.6	100.6	96.4	92.3
137.5°	115.7	105.8	104.8	100.7	96.6
140°	117.3	108.6	107.7	103.9	100.2
142.5°	118.8	110.7	109.8	106.3	102.9
145°	120.6	113.9	113.2	110.1	107.1
147.5°	123.3	117.9	117.2	114.2	111.2
150°	124.6	120.0	119.3	116.6	114.0
152.5°	125.5	121.3	120.8	118.8	116.8
155°	127.5	124.3	124.0	122.4	121.0
157.5°	129.5	127.3	127.0	125.5	124.1
160°	130.4	128.7	128.4	127.3	126.2
162.5°	131.4	130.2	130.0	129.1	128.3
165°	132.8	132.3	132.1	131.3	130.5
167.5°	133.9	133.4	133.4	133.0	132.6
170°	134.8	134.8	134.7	134.4	134.0
172.5°	134.9	134.9	134.9	134.8	134.7
175°	135.4	135.7	135.7	135.7	135.7
177.5°	135.5	135.7	135.7	135.7	135.7
180°	135.7	135.7	135.7	135.7	135.7



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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	14.36	15.49	15.08	16.23	17.11	17.16	18.29	17.88	19.03	19.91
	3H	14.86	15.87	15.59	16.62	17.54	18.52	19.53	19.25	20.28	21.19
	4H	15.06	16.02	15.82	16.78	17.71	18.97	19.92	19.72	20.68	21.61
	6H	15.20	16.08	15.96	16.85	17.79	19.26	20.14	20.02	20.91	21.85
	8H	15.21	16.04	15.98	16.83	17.78	19.33	20.17	20.11	20.96	21.91
	12H	15.19	15.99	15.97	16.77	17.74	19.38	20.18	20.16	20.96	21.93
4H	2H	15.42	16.37	16.18	17.14	18.06	17.60	18.56	18.36	19.32	20.25
	3H	16.47	17.27	17.24	18.06	19.01	19.12	19.92	19.89	20.72	21.66
	4H	16.76	17.48	17.54	18.28	19.25	19.66	20.38	20.44	21.17	22.15
	6H	16.90	17.52	17.70	18.35	19.32	20.03	20.65	20.83	21.47	22.45
	8H	16.91	17.50	17.72	18.31	19.30	20.14	20.72	20.94	21.54	22.53
	12H	16.89	17.42	17.72	18.26	19.25	20.20	20.73	21.03	21.57	22.56
8H	4H	17.23	17.81	18.03	18.63	19.62	19.80	20.39	20.61	21.20	22.20
	6H	17.50	17.98	18.33	18.84	19.84	20.24	20.73	21.08	21.58	22.58
	8H	17.55	17.98	18.39	18.83	19.84	20.39	20.82	21.24	21.68	22.69
	12H	17.54	17.92	18.39	18.77	19.83	20.50	20.88	21.34	21.72	22.79
12H	4H	17.25	17.77	18.07	18.61	19.61	19.78	20.31	20.61	21.14	22.14
	6H	17.56	17.99	18.41	18.85	19.86	20.24	20.67	21.09	21.53	22.54
	8H	17.64	18.02	18.49	18.87	19.93	20.41	20.79	21.26	21.64	22.70