

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: P933959

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933959
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-93050-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

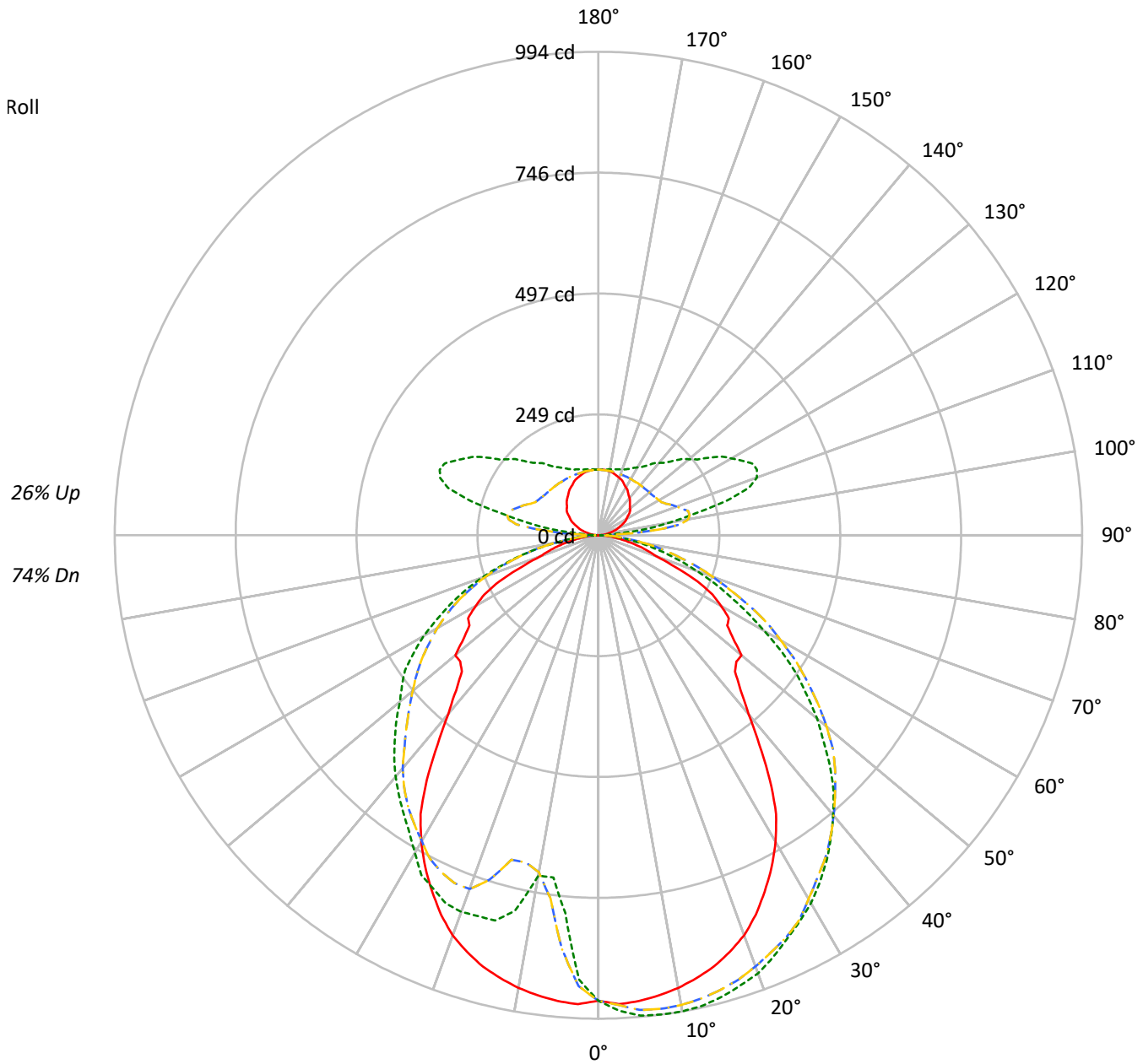
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3357.2 lumens
Efficiency: N/A
Efficacy: 111.9 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8878	8878	8878	8878
5°	8936	8963	8936	7047
10°	8866	8829	8866	6312
15°	8759	8638	8759	7213
20°	8566	8411	8566	7228
25°	8181	8080	8181	7075
30°	7687	7806	7687	6738
35°	6843	7459	6843	6369
40°	5692	7051	5692	6090
45°	5078	6572	5078	5769
50°	5382	6002	5382	5446
55°	5048	5387	5048	5261
60°	5185	4576	5185	4818
65°	4678	3782	4678	4229
70°	3217	3013	3217	3544
75°	2791	2228	2791	2668
80°	2204	1474	2204	1604
85°	1201	780	1201	664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7796 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	2.6
10°-20°	245.2	7.3
20°-30°	379.1	11.3
30°-40°	452.6	13.5
40°-50°	455.2	13.6
50°-60°	396.1	11.8
60°-70°	280.8	8.4
70°-80°	148.6	4.4
80°-90°	37.5	1.1
90°-100°	65.8	2.0
100°-110°	173.1	5.2
110°-120°	179.5	5.3
120°-130°	144.0	4.3
130°-140°	113.0	3.4
140°-150°	86.7	2.6
150°-160°	62.4	1.9
160°-170°	38.2	1.1
170°-180°	12.9	0.4
0°-30°	710.7	21.2
0°-40°	1163.3	34.7
0°-60°	2014.6	60.0
0°-90°	2481.5	73.9
90°-120°	418.5	12.5
90°-150°	762.1	22.7
90°-180°	876.0	26.1
0°-180°	3357.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	957	957	957	957	957	
5°	961	991	961	779	961	91
15°	918	982	918	820	918	258
25°	808	916	808	802	808	371
35°	615	818	615	698	615	380
45°	397	674	397	591	397	318
55°	323	497	323	485	323	297
65°	224	300	224	335	224	215
75°	85	142	85	170	85	89
85°	14	36	14	31	14	20
90°	1	3	1	3	1	1
95°	9	40	9	40	9	10
105°	31	271	31	271	31	33
115°	55	349	55	349	55	55
125°	77	278	77	278	77	68
135°	92	216	92	216	92	71
145°	106	175	106	175	106	67
155°	120	151	120	151	120	55
165°	130	140	130	140	130	37
175°	135	136	135	136	135	13
180°	135	135	135	135	135	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	965.0	965.0	970.5	972.3	972.3	969.6	966.9	969.6	977.8	980.5	979.6
5°	961.4	968.7	978.7	980.5	982.3	981.4	979.6	981.4	990.4	992.2	993.1
7.5°	954.1	967.8	980.5	983.2	985.9	983.2	982.3	984.1	993.1	995.0	995.0
10°	945.1	964.1	978.7	980.5	983.2	980.5	980.5	984.1	993.1	995.0	995.9
12.5°	932.4	958.7	972.3	974.1	977.8	976.8	975.9	979.6	988.6	990.4	990.4
15°	917.9	948.7	961.4	963.2	969.6	967.8	967.8	971.4	981.4	984.1	983.2
17.5°	898.0	936.0	950.5	953.2	957.8	956.8	957.8	961.4	970.5	972.3	973.2
20°	875.4	918.8	936.0	938.7	943.3	943.3	943.3	947.8	956.8	960.5	960.5
22.5°	844.6	900.7	918.8	920.6	926.1	926.1	927.9	934.2	942.4	943.3	943.3
25°	808.4	880.8	896.2	901.6	907.1	909.8	912.5	916.1	918.8	917.9	918.8
27.5°	770.4	855.5	875.4	879.0	886.2	889.0	892.6	893.5	894.4	897.1	895.3
30°	727.8	820.2	850.0	853.7	865.4	867.2	863.6	865.4	870.0	871.8	873.6
32.5°	679.9	767.7	823.8	831.9	842.8	837.4	836.5	839.2	846.4	846.4	848.2
35°	614.7	726.9	799.3	806.6	814.7	808.4	812.0	812.9	817.5	820.2	819.3
37.5°	543.2	691.6	774.0	779.4	785.8	777.6	783.1	785.8	789.4	787.6	787.6
40°	479.8	636.4	744.1	747.8	753.2	746.8	752.3	754.1	755.9	754.1	753.2
42.5°	432.8	575.8	712.5	717.0	713.4	717.9	719.7	723.3	720.6	717.0	717.0
45°	396.6	559.5	678.1	683.5	678.1	685.3	688.0	688.0	679.9	678.1	677.2
47.5°	384.8	526.9	643.7	643.7	640.9	650.0	654.5	648.2	640.0	637.3	637.3
50°	383.9	490.7	596.6	593.0	605.6	616.5	612.0	605.6	599.3	589.4	589.4
52.5°	348.6	446.3	535.9	549.5	569.4	575.8	568.5	562.2	551.3	546.8	543.2
55°	323.2	400.2	480.7	507.9	528.7	536.9	523.3	516.9	500.6	497.9	496.1
57.5°	317.7	333.2	430.0	464.4	489.8	488.9	480.7	469.0	455.4	452.7	451.8
60°	291.5	240.8	375.7	416.5	442.7	440.0	432.8	421.9	409.2	407.4	405.6
62.5°	264.3	174.7	314.1	360.3	397.5	396.6	390.2	373.9	364.9	360.3	356.7
65°	224.5	146.6	223.6	299.6	353.1	354.9	341.3	329.6	319.5	314.1	313.2
67.5°	171.1	119.5	151.2	249.8	310.5	308.7	291.5	286.0	273.4	270.6	265.2
70°	126.7	79.7	105.0	202.8	268.8	264.3	250.7	244.4	232.6	226.3	222.7
72.5°	105.0	64.3	76.9	157.5	226.3	220.9	209.1	201.9	191.9	186.5	182.8
75°	85.1	67.9	58.8	116.8	183.7	180.1	169.3	162.0	153.9	146.6	147.5
77.5°	62.5	63.4	47.1	86.0	145.7	140.3	134.0	124.9	121.3	114.1	114.1
80°	47.1	49.8	35.3	58.8	105.0	105.0	99.6	93.2	86.9	83.3	83.3
82.5°	31.7	31.7	26.2	37.1	71.5	68.8	65.2	63.4	59.7	57.9	57.9
85°	14.5	18.1	16.3	22.6	38.9	40.7	40.7	38.9	38.0	36.2	37.1
87.5°	4.5	8.1	10.0	12.7	19.9	20.8	21.7	21.7	21.7	22.6	22.6
90°	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6	3.4	3.4
92.5°	3.6	9.8	15.9	17.5	24.6	34.1	38.8	34.0	24.4	17.2	16.5
95°	8.7	20.0	31.3	34.1	60.6	95.8	113.4	101.2	76.8	58.5	56.4
97.5°	15.0	25.0	34.9	37.5	81.6	140.3	169.7	162.0	146.5	135.0	131.0
100°	19.9	29.0	38.0	40.3	89.2	154.4	187.0	187.5	188.7	189.5	184.8
102.5°	24.1	32.5	41.0	43.1	92.7	158.9	191.9	201.8	221.4	236.2	232.1
105°	31.2	38.4	45.4	47.2	95.3	159.3	191.4	213.4	257.5	290.6	288.4
107.5°	38.5	45.1	51.8	53.4	95.8	152.2	180.5	211.3	272.7	318.9	319.4
110°	43.4	49.3	55.3	56.8	95.0	146.0	171.4	205.8	274.5	326.1	328.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.2	53.9	59.6	61.0	95.0	140.5	163.2	198.4	268.7	321.5	325.0
115°	55.4	60.6	65.9	67.3	95.9	134.2	153.3	187.2	255.0	305.8	310.6
117.5°	62.5	67.3	72.1	73.3	97.8	130.3	146.5	177.1	238.2	284.1	289.5
120°	66.7	71.2	75.8	76.8	99.1	128.9	143.7	171.7	227.6	269.6	274.7
122.5°	70.8	75.3	79.8	81.0	101.2	128.2	141.7	166.8	217.1	254.9	260.0
125°	77.0	81.2	85.4	86.4	104.1	127.6	139.4	160.8	203.6	235.6	240.3
127.5°	82.1	86.4	90.5	91.6	106.9	127.3	137.5	155.9	192.6	220.1	224.1
130°	84.8	89.3	93.9	95.0	109.0	127.5	136.8	153.2	185.8	210.4	214.0
132.5°	87.7	92.2	96.8	97.8	110.6	127.6	136.1	150.8	180.0	202.0	205.3
135°	91.9	95.9	100.1	101.1	112.4	127.5	135.1	147.3	171.8	190.2	193.0
137.5°	96.1	100.2	104.3	105.3	115.1	128.3	134.9	145.2	165.9	181.5	183.8
140°	99.7	103.4	107.2	108.1	116.8	128.4	134.2	143.2	161.1	174.5	176.7
142.5°	102.4	105.8	109.3	110.2	118.2	128.9	134.2	142.1	157.9	169.6	171.5
145°	106.5	109.5	112.6	113.3	120.0	128.9	133.3	139.8	152.6	162.3	163.7
147.5°	110.7	113.6	116.6	117.3	122.6	129.8	133.3	138.4	148.5	156.1	157.3
150°	113.4	116.0	118.8	119.4	124.0	130.3	133.3	137.6	146.2	152.6	153.5
152.5°	116.2	118.2	120.2	120.7	124.9	130.5	133.3	137.0	144.3	149.8	150.5
155°	120.4	121.8	123.4	123.7	126.9	131.2	133.3	136.2	142.1	146.5	146.9
157.5°	123.5	124.9	126.4	126.7	128.9	131.9	133.3	135.6	140.1	143.5	143.8
160°	125.5	126.6	127.8	128.1	129.8	132.2	133.3	135.2	139.1	142.0	142.2
162.5°	127.6	128.4	129.3	129.5	130.8	132.5	133.3	135.0	138.2	140.7	140.8
165°	129.9	130.6	131.4	131.6	132.2	133.0	133.3	134.5	136.9	138.6	138.8
167.5°	132.0	132.3	132.7	132.8	133.2	133.9	134.2	135.0	136.5	137.7	137.8
170°	133.3	133.7	134.1	134.1	134.1	134.2	134.2	135.0	136.5	137.7	137.7
172.5°	134.1	134.1	134.2	134.2	134.2	134.2	134.2	134.9	136.0	137.0	136.9
175°	135.1	135.1	135.1	135.1	134.8	134.4	134.2	134.6	135.4	136.0	136.0
177.5°	135.1	135.1	135.1	135.1	134.9	134.6	134.4	134.7	135.3	135.8	135.7
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	981.4	978.7	981.4	979.6	980.5	977.8	969.6	966.9	969.6	972.3	972.3
5°	993.1	991.3	993.1	993.1	992.2	990.4	981.4	979.6	981.4	982.3	980.5
7.5°	996.8	994.0	996.8	995.0	995.0	993.1	984.1	982.3	983.2	985.9	983.2
10°	996.8	994.0	996.8	995.9	995.0	993.1	984.1	980.5	980.5	983.2	980.5
12.5°	992.2	990.4	992.2	990.4	990.4	988.6	979.6	975.9	976.8	977.8	974.1
15°	985.0	982.3	985.0	983.2	984.1	981.4	971.4	967.8	967.8	969.6	963.2
17.5°	974.1	970.5	974.1	973.2	972.3	970.5	961.4	957.8	956.8	957.8	953.2
20°	961.4	958.7	961.4	960.5	960.5	956.8	947.8	943.3	943.3	943.3	938.7
22.5°	941.5	938.7	941.5	943.3	943.3	942.4	934.2	927.9	926.1	926.1	920.6
25°	918.8	916.1	918.8	918.8	917.9	918.8	916.1	912.5	909.8	907.1	901.6
27.5°	897.1	895.3	897.1	895.3	897.1	894.4	893.5	892.6	889.0	886.2	879.0
30°	875.4	873.6	875.4	873.6	871.8	870.0	865.4	863.6	867.2	865.4	853.7
32.5°	848.2	846.4	848.2	848.2	846.4	846.4	839.2	836.5	837.4	842.8	831.9
35°	820.2	817.5	820.2	819.3	820.2	817.5	812.9	812.0	808.4	814.7	806.6
37.5°	787.6	784.9	787.6	787.6	787.6	789.4	785.8	783.1	777.6	785.8	779.4
40°	754.1	750.5	754.1	753.2	754.1	755.9	754.1	752.3	746.8	753.2	747.8
42.5°	716.1	715.2	716.1	717.0	717.0	720.6	723.3	719.7	717.9	713.4	717.0
45°	675.3	673.5	675.3	677.2	678.1	679.9	688.0	688.0	685.3	678.1	683.5
47.5°	631.9	627.4	631.9	637.3	637.3	640.0	648.2	654.5	650.0	640.9	643.7
50°	585.7	586.6	585.7	589.4	589.4	599.3	605.6	612.0	616.5	605.6	593.0
52.5°	540.5	539.6	540.5	543.2	546.8	551.3	562.2	568.5	575.8	569.4	549.5
55°	495.2	497.0	495.2	496.1	497.9	500.6	516.9	523.3	536.9	528.7	507.9
57.5°	450.0	447.2	450.0	451.8	452.7	455.4	469.0	480.7	488.9	489.8	464.4
60°	397.5	393.8	397.5	405.6	407.4	409.2	421.9	432.8	440.0	442.7	416.5
62.5°	351.3	345.0	351.3	356.7	360.3	364.9	373.9	390.2	396.6	397.5	360.3
65°	302.3	299.6	302.3	313.2	314.1	319.5	329.6	341.3	354.9	353.1	299.6
67.5°	258.0	258.0	258.0	265.2	270.6	273.4	286.0	291.5	308.7	310.5	249.8
70°	217.2	216.3	217.2	222.7	226.3	232.6	244.4	250.7	264.3	268.8	202.8
72.5°	178.3	177.4	178.3	182.8	186.5	191.9	201.9	209.1	220.9	226.3	157.5
75°	143.9	142.1	143.9	147.5	146.6	153.9	162.0	169.3	180.1	183.7	116.8
77.5°	110.4	110.4	110.4	114.1	114.1	121.3	124.9	134.0	140.3	145.7	86.0
80°	82.4	81.5	82.4	83.3	83.3	86.9	93.2	99.6	105.0	105.0	58.8
82.5°	57.9	56.1	57.9	57.9	57.9	59.7	63.4	65.2	68.8	71.5	37.1
85°	36.2	36.2	36.2	37.1	36.2	38.0	38.9	40.7	40.7	38.9	22.6
87.5°	23.5	22.6	23.5	22.6	22.6	21.7	21.7	21.7	20.8	19.9	12.7
90°	3.4	3.4	3.4	3.4	3.4	4.6	6.2	6.9	5.9	4.0	2.5
92.5°	13.8	11.0	13.8	16.5	17.2	24.4	34.0	38.8	34.1	24.6	17.5
95°	48.2	39.8	48.2	56.4	58.5	76.8	101.2	113.4	95.8	60.6	34.1
97.5°	115.2	99.5	115.2	131.0	135.0	146.5	162.0	169.7	140.3	81.6	37.5
100°	166.1	147.3	166.1	184.8	189.5	188.7	187.5	187.0	154.4	89.2	40.3
102.5°	216.0	199.9	216.0	232.1	236.2	221.4	201.8	191.9	158.9	92.7	43.1
105°	279.8	271.1	279.8	288.4	290.6	257.5	213.4	191.4	159.3	95.3	47.2
107.5°	321.5	323.6	321.5	319.4	318.9	272.7	211.3	180.5	152.2	95.8	53.4
110°	337.4	346.4	337.4	328.4	326.1	274.5	205.8	171.4	146.0	95.0	56.8



TEST NUMBER: P933959

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	338.8	352.7	338.8	325.0	321.5	268.7	198.4	163.2	140.5	95.0	61.0
115°	329.8	349.0	329.8	310.6	305.8	255.0	187.2	153.3	134.2	95.9	67.3
117.5°	310.7	332.1	310.7	289.5	284.1	238.2	177.1	146.5	130.3	97.8	73.3
120°	295.4	316.1	295.4	274.7	269.6	227.6	171.7	143.7	128.9	99.1	76.8
122.5°	280.4	300.9	280.4	260.0	254.9	217.1	166.8	141.7	128.2	101.2	81.0
125°	259.1	278.0	259.1	240.3	235.6	203.6	160.8	139.4	127.6	104.1	86.4
127.5°	240.0	255.8	240.0	224.1	220.1	192.6	155.9	137.5	127.3	106.9	91.6
130°	228.6	243.3	228.6	214.0	210.4	185.8	153.2	136.8	127.5	109.0	95.0
132.5°	218.4	231.5	218.4	205.3	202.0	180.0	150.8	136.1	127.6	110.6	97.8
135°	204.4	215.7	204.4	193.0	190.2	171.8	147.3	135.1	127.5	112.4	101.1
137.5°	193.1	202.4	193.1	183.8	181.5	165.9	145.2	134.9	128.3	115.1	105.3
140°	185.3	194.0	185.3	176.7	174.5	161.1	143.2	134.2	128.4	116.8	108.1
142.5°	179.0	186.4	179.0	171.5	169.6	157.9	142.1	134.2	128.9	118.2	110.2
145°	169.4	175.0	169.4	163.7	162.3	152.6	139.8	133.3	128.9	120.0	113.3
147.5°	161.9	166.6	161.9	157.3	156.1	148.5	138.4	133.3	129.8	122.6	117.3
150°	157.3	161.1	157.3	153.5	152.6	146.2	137.6	133.3	130.3	124.0	119.4
152.5°	153.3	156.2	153.3	150.5	149.8	144.3	137.0	133.3	130.5	124.9	120.7
155°	148.8	150.7	148.8	146.9	146.5	142.1	136.2	133.3	131.2	126.9	123.7
157.5°	145.2	146.5	145.2	143.8	143.5	140.1	135.6	133.3	131.9	128.9	126.7
160°	143.0	143.7	143.0	142.2	142.0	139.1	135.2	133.3	132.2	129.8	128.1
162.5°	141.6	142.3	141.6	140.8	140.7	138.2	135.0	133.3	132.5	130.8	129.5
165°	139.6	140.3	139.6	138.8	138.6	136.9	134.5	133.3	133.0	132.2	131.6
167.5°	138.0	138.4	138.0	137.8	137.7	136.5	135.0	134.2	133.9	133.2	132.8
170°	137.7	137.7	137.7	137.7	137.7	136.5	135.0	134.2	134.2	134.1	134.1
172.5°	136.6	136.3	136.6	136.9	137.0	136.0	134.9	134.2	134.2	134.2	134.2
175°	136.0	136.0	136.0	136.0	136.0	135.4	134.6	134.2	134.4	134.8	135.1
177.5°	135.4	135.1	135.4	135.7	135.8	135.3	134.7	134.4	134.6	134.9	135.1
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



TEST NUMBER: P933959

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	970.5	965.0	965.0	955.9	952.3	949.6	945.1	931.5	927.9	924.3	929.7
5°	978.7	968.7	961.4	945.1	931.5	926.1	908.9	876.3	854.6	838.3	829.2
7.5°	980.5	967.8	954.1	928.8	896.2	881.7	829.2	769.5	753.2	738.7	729.7
10°	978.7	964.1	945.1	907.1	830.1	804.8	752.3	713.4	703.4	700.7	703.4
12.5°	972.3	958.7	932.4	869.0	761.3	744.1	713.4	690.7	688.9	693.4	717.9
15°	961.4	948.7	917.9	818.4	723.3	710.6	688.9	680.8	690.7	722.4	795.7
17.5°	950.5	936.0	898.0	768.6	694.3	685.3	669.9	686.2	742.3	784.9	809.3
20°	936.0	918.8	875.4	732.4	673.5	665.4	658.1	731.5	774.0	789.4	803.0
22.5°	918.8	900.7	844.6	707.0	651.8	645.5	650.0	756.8	774.0	784.9	796.6
25°	896.2	880.8	808.4	687.1	634.6	627.4	644.6	754.1	764.0	766.8	790.3
27.5°	875.4	855.5	770.4	669.0	613.8	611.1	649.1	742.3	749.6	752.3	777.6
30°	850.0	820.2	727.8	650.0	592.1	591.2	650.0	727.8	726.0	733.3	758.6
32.5°	823.8	767.7	679.9	626.5	571.2	570.3	643.7	706.1	704.3	714.3	733.3
35°	799.3	726.9	614.7	599.3	545.0	545.9	628.3	680.8	681.7	690.7	702.5
37.5°	774.0	691.6	543.2	569.4	519.7	519.7	607.5	657.2	655.4	658.1	674.4
40°	744.1	636.4	479.8	530.5	496.1	493.4	582.1	631.9	625.6	624.7	647.3
42.5°	712.5	575.8	432.8	478.9	469.0	465.3	551.3	601.1	589.4	592.1	621.0
45°	678.1	559.5	396.6	404.7	440.9	438.2	517.8	565.8	557.7	564.9	594.8
47.5°	643.7	526.9	384.8	335.9	411.0	410.1	480.7	531.4	526.9	534.1	565.8
50°	596.6	490.7	383.9	287.8	377.5	381.2	436.4	497.9	497.9	504.3	537.8
52.5°	535.9	446.3	348.6	260.7	338.6	349.5	397.5	469.0	470.8	477.1	507.0
55°	480.7	400.2	323.2	239.9	292.4	315.9	359.4	439.1	442.7	449.1	476.2
57.5°	430.0	333.2	317.7	215.4	249.8	272.5	325.9	410.1	411.9	417.4	443.6
60°	375.7	240.8	291.5	189.2	212.7	229.9	295.1	375.7	382.1	385.7	408.3
62.5°	314.1	174.7	264.3	171.1	194.6	198.2	269.7	343.1	351.3	354.0	367.6
65°	223.6	146.6	224.5	155.7	175.6	176.5	242.6	309.6	316.8	321.3	331.4
67.5°	151.2	119.5	171.1	141.2	161.1	162.0	216.3	270.6	280.6	284.2	290.6
70°	105.0	79.7	126.7	125.8	144.8	146.6	188.3	235.3	244.4	247.1	250.7
72.5°	76.9	64.3	105.0	113.1	127.6	129.4	159.3	195.5	204.6	207.3	209.1
75°	58.8	67.9	85.1	98.7	108.6	109.5	130.3	159.3	165.6	167.5	168.4
77.5°	47.1	63.4	62.5	79.7	88.7	86.9	102.3	123.1	128.5	128.5	128.5
80°	35.3	49.8	47.1	57.0	65.2	63.4	73.3	87.8	89.6	91.4	90.5
82.5°	26.2	31.7	31.7	36.2	43.4	41.6	48.9	57.0	57.0	57.0	58.8
85°	16.3	18.1	14.5	19.0	24.4	23.5	27.2	30.8	31.7	31.7	29.9
87.5°	10.0	8.1	4.5	7.2	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°	15.9	9.8	3.6	9.8	15.9	17.5	24.6	34.1	38.8	34.0	24.4
95°	31.3	20.0	8.7	20.0	31.3	34.1	60.6	95.8	113.4	101.2	76.8
97.5°	34.9	25.0	15.0	25.0	34.9	37.5	81.6	140.3	169.7	162.0	146.5
100°	38.0	29.0	19.9	29.0	38.0	40.3	89.2	154.4	187.0	187.5	188.7
102.5°	41.0	32.5	24.1	32.5	41.0	43.1	92.7	158.9	191.9	201.8	221.4
105°	45.4	38.4	31.2	38.4	45.4	47.2	95.3	159.3	191.4	213.4	257.5
107.5°	51.8	45.1	38.5	45.1	51.8	53.4	95.8	152.2	180.5	211.3	272.7
110°	55.3	49.3	43.4	49.3	55.3	56.8	95.0	146.0	171.4	205.8	274.5



TEST NUMBER: P933959

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	59.6	53.9	48.2	53.9	59.6	61.0	95.0	140.5	163.2	198.4	268.7
115°	65.9	60.6	55.4	60.6	65.9	67.3	95.9	134.2	153.3	187.2	255.0
117.5°	72.1	67.3	62.5	67.3	72.1	73.3	97.8	130.3	146.5	177.1	238.2
120°	75.8	71.2	66.7	71.2	75.8	76.8	99.1	128.9	143.7	171.7	227.6
122.5°	79.8	75.3	70.8	75.3	79.8	81.0	101.2	128.2	141.7	166.8	217.1
125°	85.4	81.2	77.0	81.2	85.4	86.4	104.1	127.6	139.4	160.8	203.6
127.5°	90.5	86.4	82.1	86.4	90.5	91.6	106.9	127.3	137.5	155.9	192.6
130°	93.9	89.3	84.8	89.3	93.9	95.0	109.0	127.5	136.8	153.2	185.8
132.5°	96.8	92.2	87.7	92.2	96.8	97.8	110.6	127.6	136.1	150.8	180.0
135°	100.1	95.9	91.9	95.9	100.1	101.1	112.4	127.5	135.1	147.3	171.8
137.5°	104.3	100.2	96.1	100.2	104.3	105.3	115.1	128.3	134.9	145.2	165.9
140°	107.2	103.4	99.7	103.4	107.2	108.1	116.8	128.4	134.2	143.2	161.1
142.5°	109.3	105.8	102.4	105.8	109.3	110.2	118.2	128.9	134.2	142.1	157.9
145°	112.6	109.5	106.5	109.5	112.6	113.3	120.0	128.9	133.3	139.8	152.6
147.5°	116.6	113.6	110.7	113.6	116.6	117.3	122.6	129.8	133.3	138.4	148.5
150°	118.8	116.0	113.4	116.0	118.8	119.4	124.0	130.3	133.3	137.6	146.2
152.5°	120.2	118.2	116.2	118.2	120.2	120.7	124.9	130.5	133.3	137.0	144.3
155°	123.4	121.8	120.4	121.8	123.4	123.7	126.9	131.2	133.3	136.2	142.1
157.5°	126.4	124.9	123.5	124.9	126.4	126.7	128.9	131.9	133.3	135.6	140.1
160°	127.8	126.6	125.5	126.6	127.8	128.1	129.8	132.2	133.3	135.2	139.1
162.5°	129.3	128.4	127.6	128.4	129.3	129.5	130.8	132.5	133.3	135.0	138.2
165°	131.4	130.6	129.9	130.6	131.4	131.6	132.2	133.0	133.3	134.5	136.9
167.5°	132.7	132.3	132.0	132.3	132.7	132.8	133.2	133.9	134.2	135.0	136.5
170°	134.1	133.7	133.3	133.7	134.1	134.1	134.1	134.2	134.2	135.0	136.5
172.5°	134.2	134.1	134.1	134.1	134.2	134.2	134.2	134.2	134.2	134.9	136.0
175°	135.1	135.1	135.1	135.1	135.1	135.1	134.8	134.4	134.2	134.6	135.4
177.5°	135.1	135.1	135.1	135.1	135.1	135.1	134.9	134.6	134.4	134.7	135.3
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



TEST NUMBER: P933959

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	923.4	920.6	924.3	914.3	924.3	920.6	923.4	929.7	924.3	927.9	931.5
5°	810.2	805.7	791.2	779.4	791.2	805.7	810.2	829.2	838.3	854.6	876.3
7.5°	724.2	720.6	717.0	709.7	717.0	720.6	724.2	729.7	738.7	753.2	769.5
10°	705.2	706.1	711.5	710.6	711.5	706.1	705.2	703.4	700.7	703.4	713.4
12.5°	754.1	762.2	792.1	790.3	792.1	762.2	754.1	717.9	693.4	688.9	690.7
15°	810.2	812.9	819.3	820.2	819.3	812.9	810.2	795.7	722.4	690.7	680.8
17.5°	815.6	816.5	821.1	821.1	821.1	816.5	815.6	809.3	784.9	742.3	686.2
20°	811.1	812.9	822.0	823.8	822.0	812.9	811.1	803.0	789.4	774.0	731.5
22.5°	809.3	812.9	820.2	819.3	820.2	812.9	809.3	796.6	784.9	774.0	756.8
25°	800.3	800.3	801.2	802.1	801.2	800.3	800.3	790.3	766.8	764.0	754.1
27.5°	781.2	783.1	788.5	787.6	788.5	783.1	781.2	777.6	752.3	749.6	742.3
30°	764.0	762.2	757.7	754.1	757.7	762.2	764.0	758.6	733.3	726.0	727.8
32.5°	735.1	730.6	726.0	723.3	726.0	730.6	735.1	733.3	714.3	704.3	706.1
35°	700.7	701.6	700.7	698.0	700.7	701.6	700.7	702.5	690.7	681.7	680.8
37.5°	676.2	678.1	677.2	673.5	677.2	678.1	676.2	674.4	658.1	655.4	657.2
40°	650.9	651.8	650.9	648.2	650.9	651.8	650.9	647.3	624.7	625.6	631.9
42.5°	626.5	625.6	622.8	621.0	622.8	625.6	626.5	621.0	592.1	589.4	601.1
45°	598.4	599.3	593.9	591.2	593.9	599.3	598.4	594.8	564.9	557.7	565.8
47.5°	570.3	570.3	565.8	563.1	565.8	570.3	570.3	565.8	534.1	526.9	531.4
50°	540.5	539.6	533.2	532.3	533.2	539.6	540.5	537.8	504.3	497.9	497.9
52.5°	506.1	506.1	507.0	508.8	507.0	506.1	506.1	507.0	477.1	470.8	469.0
55°	476.2	477.1	483.4	485.3	483.4	477.1	476.2	476.2	449.1	442.7	439.1
57.5°	445.4	445.4	450.0	450.0	450.0	445.4	445.4	443.6	417.4	411.9	410.1
60°	410.1	411.9	415.6	414.7	415.6	411.9	410.1	408.3	385.7	382.1	375.7
62.5°	373.0	374.8	375.7	373.9	375.7	374.8	373.0	367.6	354.0	351.3	343.1
65°	334.1	335.9	336.8	335.0	336.8	335.9	334.1	331.4	321.3	316.8	309.6
67.5°	294.2	293.3	292.4	296.0	292.4	293.3	294.2	290.6	284.2	280.6	270.6
70°	253.4	253.4	252.5	254.4	252.5	253.4	253.4	250.7	247.1	244.4	235.3
72.5°	210.0	209.1	212.7	210.0	212.7	209.1	210.0	209.1	207.3	204.6	195.5
75°	167.5	169.3	167.5	170.2	167.5	169.3	167.5	168.4	167.5	165.6	159.3
77.5°	127.6	129.4	127.6	127.6	127.6	129.4	127.6	128.5	128.5	128.5	123.1
80°	90.5	89.6	89.6	88.7	89.6	89.6	90.5	90.5	91.4	89.6	87.8
82.5°	57.9	57.0	57.0	58.8	57.0	57.0	57.9	58.8	57.0	57.0	57.0
85°	31.7	32.6	30.8	30.8	30.8	32.6	31.7	29.9	31.7	31.7	30.8
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°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	6.2	6.9	5.9
92.5°	17.2	16.5	13.8	11.0	13.8	16.5	17.2	24.4	34.0	38.8	34.1
95°	58.5	56.4	48.2	39.8	48.2	56.4	58.5	76.8	101.2	113.4	95.8
97.5°	135.0	131.0	115.2	99.5	115.2	131.0	135.0	146.5	162.0	169.7	140.3
100°	189.5	184.8	166.1	147.3	166.1	184.8	189.5	188.7	187.5	187.0	154.4
102.5°	236.2	232.1	216.0	199.9	216.0	232.1	236.2	221.4	201.8	191.9	158.9
105°	290.6	288.4	279.8	271.1	279.8	288.4	290.6	257.5	213.4	191.4	159.3
107.5°	318.9	319.4	321.5	323.6	321.5	319.4	318.9	272.7	211.3	180.5	152.2
110°	326.1	328.4	337.4	346.4	337.4	328.4	326.1	274.5	205.8	171.4	146.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	321.5	325.0	338.8	352.7	338.8	325.0	321.5	268.7	198.4	163.2	140.5
115°	305.8	310.6	329.8	349.0	329.8	310.6	305.8	255.0	187.2	153.3	134.2
117.5°	284.1	289.5	310.7	332.1	310.7	289.5	284.1	238.2	177.1	146.5	130.3
120°	269.6	274.7	295.4	316.1	295.4	274.7	269.6	227.6	171.7	143.7	128.9
122.5°	254.9	260.0	280.4	300.9	280.4	260.0	254.9	217.1	166.8	141.7	128.2
125°	235.6	240.3	259.1	278.0	259.1	240.3	235.6	203.6	160.8	139.4	127.6
127.5°	220.1	224.1	240.0	255.8	240.0	224.1	220.1	192.6	155.9	137.5	127.3
130°	210.4	214.0	228.6	243.3	228.6	214.0	210.4	185.8	153.2	136.8	127.5
132.5°	202.0	205.3	218.4	231.5	218.4	205.3	202.0	180.0	150.8	136.1	127.6
135°	190.2	193.0	204.4	215.7	204.4	193.0	190.2	171.8	147.3	135.1	127.5
137.5°	181.5	183.8	193.1	202.4	193.1	183.8	181.5	165.9	145.2	134.9	128.3
140°	174.5	176.7	185.3	194.0	185.3	176.7	174.5	161.1	143.2	134.2	128.4
142.5°	169.6	171.5	179.0	186.4	179.0	171.5	169.6	157.9	142.1	134.2	128.9
145°	162.3	163.7	169.4	175.0	169.4	163.7	162.3	152.6	139.8	133.3	128.9
147.5°	156.1	157.3	161.9	166.6	161.9	157.3	156.1	148.5	138.4	133.3	129.8
150°	152.6	153.5	157.3	161.1	157.3	153.5	152.6	146.2	137.6	133.3	130.3
152.5°	149.8	150.5	153.3	156.2	153.3	150.5	149.8	144.3	137.0	133.3	130.5
155°	146.5	146.9	148.8	150.7	148.8	146.9	146.5	142.1	136.2	133.3	131.2
157.5°	143.5	143.8	145.2	146.5	145.2	143.8	143.5	140.1	135.6	133.3	131.9
160°	142.0	142.2	143.0	143.7	143.0	142.2	142.0	139.1	135.2	133.3	132.2
162.5°	140.7	140.8	141.6	142.3	141.6	140.8	140.7	138.2	135.0	133.3	132.5
165°	138.6	138.8	139.6	140.3	139.6	138.8	138.6	136.9	134.5	133.3	133.0
167.5°	137.7	137.8	138.0	138.4	138.0	137.8	137.7	136.5	135.0	134.2	133.9
170°	137.7	137.7	137.7	137.7	137.7	137.7	137.7	136.5	135.0	134.2	134.2
172.5°	137.0	136.9	136.6	136.3	136.6	136.9	137.0	136.0	134.9	134.2	134.2
175°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	135.4	134.6	134.2	134.4
177.5°	135.8	135.7	135.4	135.1	135.4	135.7	135.8	135.3	134.7	134.4	134.6
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	956.8	956.8	956.8	956.8	956.8
2.5°	945.1	949.6	952.3	955.9	965.0
5°	908.9	926.1	931.5	945.1	961.4
7.5°	829.2	881.7	896.2	928.8	954.1
10°	752.3	804.8	830.1	907.1	945.1
12.5°	713.4	744.1	761.3	869.0	932.4
15°	688.9	710.6	723.3	818.4	917.9
17.5°	669.9	685.3	694.3	768.6	898.0
20°	658.1	665.4	673.5	732.4	875.4
22.5°	650.0	645.5	651.8	707.0	844.6
25°	644.6	627.4	634.6	687.1	808.4
27.5°	649.1	611.1	613.8	669.0	770.4
30°	650.0	591.2	592.1	650.0	727.8
32.5°	643.7	570.3	571.2	626.5	679.9
35°	628.3	545.9	545.0	599.3	614.7
37.5°	607.5	519.7	519.7	569.4	543.2
40°	582.1	493.4	496.1	530.5	479.8
42.5°	551.3	465.3	469.0	478.9	432.8
45°	517.8	438.2	440.9	404.7	396.6
47.5°	480.7	410.1	411.0	335.9	384.8
50°	436.4	381.2	377.5	287.8	383.9
52.5°	397.5	349.5	338.6	260.7	348.6
55°	359.4	315.9	292.4	239.9	323.2
57.5°	325.9	272.5	249.8	215.4	317.7
60°	295.1	229.9	212.7	189.2	291.5
62.5°	269.7	198.2	194.6	171.1	264.3
65°	242.6	176.5	175.6	155.7	224.5
67.5°	216.3	162.0	161.1	141.2	171.1
70°	188.3	146.6	144.8	125.8	126.7
72.5°	159.3	129.4	127.6	113.1	105.0
75°	130.3	109.5	108.6	98.7	85.1
77.5°	102.3	86.9	88.7	79.7	62.5
80°	73.3	63.4	65.2	57.0	47.1
82.5°	48.9	41.6	43.4	36.2	31.7
85°	27.2	23.5	24.4	19.0	14.5
87.5°	12.7	10.9	10.9	7.2	4.5
90°	4.0	2.5	2.4	1.6	0.9
92.5°	24.6	17.5	15.9	9.8	3.6
95°	60.6	34.1	31.3	20.0	8.7
97.5°	81.6	37.5	34.9	25.0	15.0
100°	89.2	40.3	38.0	29.0	19.9
102.5°	92.7	43.1	41.0	32.5	24.1
105°	95.3	47.2	45.4	38.4	31.2
107.5°	95.8	53.4	51.8	45.1	38.5
110°	95.0	56.8	55.3	49.3	43.4



TEST NUMBER: P933959

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	95.0	61.0	59.6	53.9	48.2
115°	95.9	67.3	65.9	60.6	55.4
117.5°	97.8	73.3	72.1	67.3	62.5
120°	99.1	76.8	75.8	71.2	66.7
122.5°	101.2	81.0	79.8	75.3	70.8
125°	104.1	86.4	85.4	81.2	77.0
127.5°	106.9	91.6	90.5	86.4	82.1
130°	109.0	95.0	93.9	89.3	84.8
132.5°	110.6	97.8	96.8	92.2	87.7
135°	112.4	101.1	100.1	95.9	91.9
137.5°	115.1	105.3	104.3	100.2	96.1
140°	116.8	108.1	107.2	103.4	99.7
142.5°	118.2	110.2	109.3	105.8	102.4
145°	120.0	113.3	112.6	109.5	106.5
147.5°	122.6	117.3	116.6	113.6	110.7
150°	124.0	119.4	118.8	116.0	113.4
152.5°	124.9	120.7	120.2	118.2	116.2
155°	126.9	123.7	123.4	121.8	120.4
157.5°	128.9	126.7	126.4	124.9	123.5
160°	129.8	128.1	127.8	126.6	125.5
162.5°	130.8	129.5	129.3	128.4	127.6
165°	132.2	131.6	131.4	130.6	129.9
167.5°	133.2	132.8	132.7	132.3	132.0
170°	134.1	134.1	134.1	133.7	133.3
172.5°	134.2	134.2	134.2	134.1	134.1
175°	134.8	135.1	135.1	135.1	135.1
177.5°	134.9	135.1	135.1	135.1	135.1
180°	135.1	135.1	135.1	135.1	135.1



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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	14.35	15.47	15.07	16.21	17.10	17.14	18.27	17.86	19.01	19.90
	3H	14.84	15.85	15.58	16.61	17.52	18.50	19.51	19.23	20.26	21.18
	4H	15.05	16.00	15.80	16.76	17.69	18.95	19.90	19.70	20.66	21.59
	6H	15.18	16.06	15.94	16.83	17.77	19.24	20.12	20.00	20.89	21.83
	8H	15.19	16.03	15.96	16.82	17.76	19.32	20.16	20.09	20.95	21.89
	12H	15.17	15.97	15.95	16.75	17.72	19.36	20.16	20.14	20.94	21.91
4H	2H	15.40	16.36	16.16	17.12	18.04	17.59	18.54	18.34	19.30	20.23
	3H	16.45	17.25	17.22	18.04	18.99	19.11	19.90	19.88	20.70	21.64
	4H	16.74	17.46	17.52	18.26	19.23	19.64	20.36	20.42	21.16	22.13
	6H	16.88	17.51	17.68	18.33	19.31	20.01	20.64	20.81	21.46	22.44
	8H	16.89	17.48	17.70	18.29	19.29	20.12	20.70	20.92	21.52	22.51
	12H	16.87	17.40	17.70	18.24	19.23	20.18	20.71	21.01	21.55	22.55
8H	4H	17.21	17.79	18.02	18.61	19.60	19.79	20.37	20.59	21.19	22.18
	6H	17.48	17.97	18.32	18.83	19.82	20.22	20.71	21.06	21.57	22.56
	8H	17.53	17.96	18.37	18.81	19.82	20.37	20.80	21.22	21.66	22.67
	12H	17.52	17.90	18.37	18.75	19.82	20.48	20.86	21.33	21.70	22.77
12H	4H	17.23	17.75	18.05	18.59	19.59	19.76	20.29	20.59	21.13	22.12
	6H	17.54	17.98	18.39	18.83	19.84	20.22	20.66	21.07	21.51	22.52
	8H	17.62	18.00	18.47	18.85	19.91	20.39	20.77	21.24	21.62	22.68