

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: P934333

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934333
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-92765-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

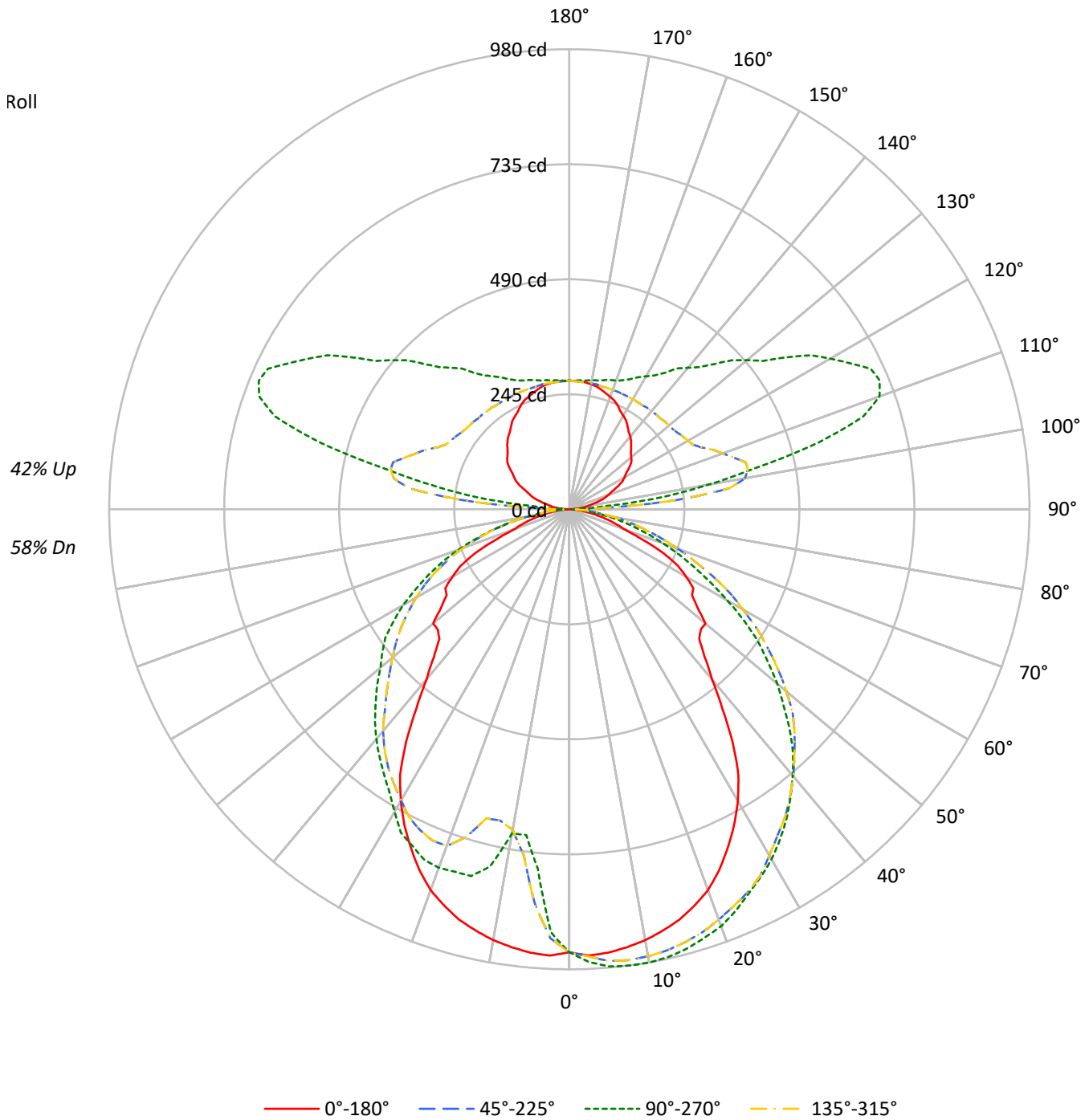
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4224.7 lumens
Efficiency: N/A
Efficacy: 116.1 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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CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8756	8756	8756	8756
5°	8812	8839	8812	6950
10°	8743	8707	8743	6225
15°	8638	8519	8638	7113
20°	8448	8295	8448	7128
25°	8068	7968	8068	6977
30°	7582	7698	7582	6645
35°	6749	7355	6749	6281
40°	5614	6953	5614	6005
45°	5007	6481	5007	5689
50°	5307	5919	5307	5370
55°	4980	5313	4980	5187
60°	5112	4513	5112	4751
65°	4614	3730	4614	4170
70°	3173	2972	3173	3494
75°	2751	2196	2751	2631
80°	2172	1452	2172	1582
85°	1184	769	1184	653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7688 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	2.0
10°-20°	241.8	5.7
20°-30°	373.8	8.8
30°-40°	446.3	10.6
40°-50°	448.9	10.6
50°-60°	390.6	9.2
60°-70°	276.9	6.6
70°-80°	146.5	3.5
80°-90°	37.5	0.9
90°-100°	133.6	3.2
100°-110°	351.3	8.3
110°-120°	364.3	8.6
120°-130°	292.2	6.9
130°-140°	229.3	5.4
140°-150°	176.0	4.2
150°-160°	126.7	3.0
160°-170°	77.5	1.8
170°-180°	26.2	0.6
0°-30°	700.9	16.6
0°-40°	1147.2	27.2
0°-60°	1986.7	47.0
0°-90°	2447.7	57.9
90°-120°	849.2	20.1
90°-150°	1546.6	36.6
90°-180°	1777.0	42.1
0°-180°	4224.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	944	944	944	944	944	
5°	948	978	948	769	948	90
15°	905	969	905	809	905	255
25°	797	903	797	791	797	366
35°	606	806	606	688	606	375
45°	391	664	391	583	391	313
55°	319	490	319	478	319	293
65°	221	296	221	330	221	212
75°	84	140	84	168	84	88
85°	14	36	14	30	14	19
90°	2	7	2	7	2	2
95°	18	81	18	81	18	20
105°	63	550	63	550	63	67
115°	112	708	112	708	112	111
125°	156	564	156	564	156	139
135°	186	438	186	438	186	144
145°	216	355	216	355	216	135
155°	244	306	244	306	244	112
165°	264	285	264	285	264	74
175°	274	276	274	276	274	26
180°	274	274	274	274	274	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	951.6	951.6	957.1	958.9	958.9	956.2	953.5	956.2	964.2	966.9	966.0
5°	948.1	955.3	965.1	966.9	968.7	967.8	966.0	967.8	976.7	978.5	979.4
7.5°	940.9	954.4	966.9	969.6	972.2	969.6	968.7	970.5	979.4	981.2	981.2
10°	932.0	950.7	965.1	966.9	969.6	966.9	966.9	970.5	979.4	981.2	982.1
12.5°	919.5	945.4	958.9	960.6	964.2	963.3	962.4	966.0	974.9	976.7	976.7
15°	905.2	935.6	948.1	949.8	956.2	954.4	954.4	958.0	967.8	970.5	969.6
17.5°	885.6	923.1	937.3	940.0	944.5	943.6	944.5	948.1	957.1	958.9	959.7
20°	863.3	906.1	923.1	925.7	930.2	930.2	930.2	934.7	943.6	947.2	947.2
22.5°	832.9	888.2	906.1	907.9	913.2	913.2	915.0	921.3	929.3	930.2	930.2
25°	797.2	868.6	883.8	889.1	894.5	897.2	899.9	903.4	906.1	905.2	906.1
27.5°	759.7	843.6	863.3	866.8	874.0	876.6	880.2	881.1	882.0	884.7	882.9
30°	717.8	808.8	838.3	841.8	853.4	855.2	851.6	853.4	857.9	859.7	861.5
32.5°	670.4	757.0	812.4	820.4	831.1	825.8	824.9	827.5	834.7	834.7	836.5
35°	606.2	716.9	788.3	795.4	803.4	797.2	800.8	801.7	806.1	808.8	807.9
37.5°	535.7	682.1	763.3	768.6	774.9	766.8	772.2	774.9	778.5	776.7	776.7
40°	473.2	627.6	733.8	737.4	742.7	736.5	741.9	743.6	745.4	743.6	742.7
42.5°	426.8	567.8	702.6	707.0	703.5	707.9	709.7	713.3	710.6	707.0	707.0
45°	391.1	551.7	668.7	674.0	668.7	675.8	678.5	678.5	670.4	668.7	667.8
47.5°	379.5	519.6	634.7	634.7	632.1	641.0	645.5	639.2	631.2	628.5	628.5
50°	378.6	483.9	588.3	584.8	597.3	608.0	603.5	597.3	591.0	581.2	581.2
52.5°	343.7	440.2	528.5	541.9	561.5	567.8	560.7	554.4	543.7	539.2	535.7
55°	318.8	394.6	474.1	500.8	521.4	529.4	516.0	509.8	493.7	491.0	489.2
57.5°	313.3	328.6	424.1	458.0	483.0	482.1	474.1	462.5	449.1	446.4	445.5
60°	287.4	237.4	370.5	410.7	436.6	433.9	426.8	416.1	403.6	401.8	400.0
62.5°	260.6	172.3	309.7	355.4	391.9	391.1	384.8	368.7	359.8	355.4	351.8
65°	221.4	144.6	220.5	295.5	348.2	350.0	336.6	325.0	315.1	309.7	308.8
67.5°	168.7	117.8	149.1	246.4	306.2	304.4	287.4	282.1	269.6	266.9	261.5
70°	125.0	78.6	103.5	199.9	265.1	260.6	247.3	241.0	229.4	223.2	219.6
72.5°	103.5	63.4	75.9	155.3	223.2	217.8	206.2	199.1	189.2	183.9	180.3
75°	83.9	66.9	58.0	115.1	181.2	177.6	166.9	159.8	151.7	144.6	145.5
77.5°	61.6	62.5	46.4	84.8	143.7	138.4	132.1	123.2	119.6	112.5	112.5
80°	46.4	49.1	34.8	58.0	103.5	103.5	98.2	91.9	85.7	82.1	82.1
82.5°	31.2	31.2	25.9	36.6	70.5	67.8	64.3	62.5	58.9	57.1	57.1
85°	14.3	17.9	16.1	22.3	38.4	40.2	40.2	38.4	37.5	35.7	36.6
87.5°	4.5	8.0	9.8	12.5	19.6	20.5	21.4	21.4	21.4	22.3	22.3
90°	1.9	3.3	4.8	5.2	8.1	12.1	14.0	12.4	9.3	7.0	7.0
92.5°	7.3	19.8	32.4	35.5	49.9	69.1	78.7	69.0	49.5	35.0	33.6
95°	17.7	40.5	63.5	69.2	122.8	194.3	230.1	205.3	155.8	118.6	114.4
97.5°	30.5	50.7	70.9	76.0	165.4	284.7	344.4	328.8	297.4	273.9	265.9
100°	40.4	58.7	77.1	81.7	180.9	313.3	379.5	380.7	383.0	384.7	375.2
102.5°	48.9	66.1	83.1	87.4	188.1	322.3	389.5	409.4	449.3	479.2	471.0
105°	63.3	77.7	92.2	95.9	193.3	323.4	388.4	433.1	522.5	589.7	585.3
107.5°	78.0	91.5	105.0	108.4	194.3	309.0	366.3	428.7	553.5	647.1	648.1
110°	87.9	100.1	112.3	115.3	192.9	296.3	347.9	417.7	557.2	661.8	666.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	97.7	109.3	120.9	123.8	192.9	285.1	331.2	402.6	545.3	652.4	659.5
115°	112.4	123.1	133.8	136.5	194.7	272.2	311.1	379.8	517.4	620.5	630.3
117.5°	126.9	136.7	146.4	148.8	198.3	264.3	297.3	359.4	483.4	576.5	587.3
120°	135.4	144.6	153.7	156.0	201.3	261.6	291.8	348.5	461.9	547.0	557.5
122.5°	143.7	153.0	162.2	164.5	205.5	260.2	287.5	338.6	440.8	517.4	527.7
125°	156.4	164.8	173.2	175.3	211.2	259.0	283.0	326.3	413.1	478.2	487.7
127.5°	166.7	175.2	183.7	185.8	216.9	258.4	279.1	316.3	390.8	446.7	454.7
130°	172.2	181.4	190.5	192.8	221.1	258.8	277.6	310.8	377.1	426.9	434.3
132.5°	177.9	187.1	196.2	198.5	224.5	259.0	276.4	306.0	365.3	409.9	416.6
135°	186.4	194.7	203.1	205.1	228.2	258.8	274.1	298.9	348.7	386.0	391.7
137.5°	195.0	203.2	211.6	213.6	233.7	260.4	273.8	294.7	336.8	368.3	373.0
140°	202.2	209.8	217.4	219.3	237.0	260.6	272.4	290.6	327.0	354.2	358.6
142.5°	207.7	214.8	221.7	223.5	239.8	261.5	272.4	288.4	320.3	344.2	347.9
145°	216.2	222.3	228.4	229.9	243.5	261.6	270.6	283.7	309.7	329.3	332.1
147.5°	224.7	230.7	236.5	238.1	249.0	263.4	270.6	280.9	301.4	316.8	319.2
150°	230.1	235.5	240.9	242.3	251.7	264.3	270.6	279.3	296.6	309.6	311.6
152.5°	235.8	239.9	244.0	245.0	253.6	264.9	270.6	278.1	292.9	303.9	305.4
155°	244.3	247.3	250.4	251.1	257.6	266.3	270.6	276.5	288.3	297.2	298.1
157.5°	250.6	253.5	256.4	257.2	261.6	267.6	270.6	275.2	284.4	291.3	292.0
160°	254.8	257.1	259.4	259.9	263.5	268.2	270.6	274.6	282.4	288.3	288.7
162.5°	259.0	260.7	262.4	262.9	265.5	268.9	270.6	273.9	280.6	285.5	285.9
165°	263.7	265.2	266.8	267.2	268.3	269.8	270.6	273.0	277.7	281.3	281.6
167.5°	267.9	268.6	269.3	269.5	270.5	271.8	272.4	274.0	277.2	279.5	279.7
170°	270.6	271.4	272.1	272.2	272.3	272.4	272.4	274.0	277.2	279.5	279.5
172.5°	272.1	272.2	272.4	272.4	272.4	272.4	272.4	273.7	276.1	278.0	277.8
175°	274.1	274.1	274.1	274.1	273.6	272.8	272.4	273.2	274.8	276.0	276.0
177.5°	274.1	274.1	274.1	274.1	273.7	273.1	272.9	273.5	274.7	275.6	275.5
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	967.8	965.1	967.8	966.0	966.9	964.2	956.2	953.5	956.2	958.9	958.9
5°	979.4	977.6	979.4	979.4	978.5	976.7	967.8	966.0	967.8	968.7	966.9
7.5°	983.0	980.3	983.0	981.2	981.2	979.4	970.5	968.7	969.6	972.2	969.6
10°	983.0	980.3	983.0	982.1	981.2	979.4	970.5	966.9	966.9	969.6	966.9
12.5°	978.5	976.7	978.5	976.7	976.7	974.9	966.0	962.4	963.3	964.2	960.6
15°	971.3	968.7	971.3	969.6	970.5	967.8	958.0	954.4	954.4	956.2	949.8
17.5°	960.6	957.1	960.6	959.7	958.9	957.1	948.1	944.5	943.6	944.5	940.0
20°	948.1	945.4	948.1	947.2	947.2	943.6	934.7	930.2	930.2	930.2	925.7
22.5°	928.4	925.7	928.4	930.2	930.2	929.3	921.3	915.0	913.2	913.2	907.9
25°	906.1	903.4	906.1	906.1	905.2	906.1	903.4	899.9	897.2	894.5	889.1
27.5°	884.7	882.9	884.7	882.9	884.7	882.0	881.1	880.2	876.6	874.0	866.8
30°	863.3	861.5	863.3	861.5	859.7	857.9	853.4	851.6	855.2	853.4	841.8
32.5°	836.5	834.7	836.5	836.5	834.7	834.7	827.5	824.9	825.8	831.1	820.4
35°	808.8	806.1	808.8	807.9	808.8	806.1	801.7	800.8	797.2	803.4	795.4
37.5°	776.7	774.0	776.7	776.7	776.7	778.5	774.9	772.2	766.8	774.9	768.6
40°	743.6	740.1	743.6	742.7	743.6	745.4	743.6	741.9	736.5	742.7	737.4
42.5°	706.2	705.3	706.2	707.0	707.0	710.6	713.3	709.7	707.9	703.5	707.0
45°	666.0	664.2	666.0	667.8	668.7	670.4	678.5	678.5	675.8	668.7	674.0
47.5°	623.1	618.7	623.1	628.5	628.5	631.2	639.2	645.5	641.0	632.1	634.7
50°	577.6	578.5	577.6	581.2	581.2	591.0	597.3	603.5	608.0	597.3	584.8
52.5°	533.0	532.1	533.0	535.7	539.2	543.7	554.4	560.7	567.8	561.5	541.9
55°	488.4	490.1	488.4	489.2	491.0	493.7	509.8	516.0	529.4	521.4	500.8
57.5°	443.7	441.0	443.7	445.5	446.4	449.1	462.5	474.1	482.1	483.0	458.0
60°	391.9	388.4	391.9	400.0	401.8	403.6	416.1	426.8	433.9	436.6	410.7
62.5°	346.4	340.2	346.4	351.8	355.4	359.8	368.7	384.8	391.1	391.9	355.4
65°	298.1	295.5	298.1	308.8	309.7	315.1	325.0	336.6	350.0	348.2	295.5
67.5°	254.4	254.4	254.4	261.5	266.9	269.6	282.1	287.4	304.4	306.2	246.4
70°	214.2	213.3	214.2	219.6	223.2	229.4	241.0	247.3	260.6	265.1	199.9
72.5°	175.8	175.0	175.8	180.3	183.9	189.2	199.1	206.2	217.8	223.2	155.3
75°	141.9	140.1	141.9	145.5	144.6	151.7	159.8	166.9	177.6	181.2	115.1
77.5°	108.9	108.9	108.9	112.5	112.5	119.6	123.2	132.1	138.4	143.7	84.8
80°	81.2	80.3	81.2	82.1	82.1	85.7	91.9	98.2	103.5	103.5	58.0
82.5°	57.1	55.3	57.1	57.1	57.1	58.9	62.5	64.3	67.8	70.5	36.6
85°	35.7	35.7	35.7	36.6	35.7	37.5	38.4	40.2	40.2	38.4	22.3
87.5°	23.2	22.3	23.2	22.3	22.3	21.4	21.4	21.4	20.5	19.6	12.5
90°	7.0	7.0	7.0	7.0	7.0	9.3	12.4	14.0	12.1	8.1	5.2
92.5°	28.0	22.4	28.0	33.6	35.0	49.5	69.0	78.7	69.1	49.9	35.5
95°	97.6	80.8	97.6	114.4	118.6	155.8	205.3	230.1	194.3	122.8	69.2
97.5°	233.9	201.8	233.9	265.9	273.9	297.4	328.8	344.4	284.7	165.4	76.0
100°	337.0	298.8	337.0	375.2	384.7	383.0	380.7	379.5	313.3	180.9	81.7
102.5°	438.4	405.7	438.4	471.0	479.2	449.3	409.4	389.5	322.3	188.1	87.4
105°	567.7	550.1	567.7	585.3	589.7	522.5	433.1	388.4	323.4	193.3	95.9
107.5°	652.3	656.6	652.3	648.1	647.1	553.5	428.7	366.3	309.0	194.3	108.4
110°	684.6	702.9	684.6	666.3	661.8	557.2	417.7	347.9	296.3	192.9	115.3



TEST NUMBER: P934333

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	687.6	715.7	687.6	659.5	652.4	545.3	402.6	331.2	285.1	192.9	123.8
115°	669.3	708.3	669.3	630.3	620.5	517.4	379.8	311.1	272.2	194.7	136.5
117.5°	630.6	673.9	630.6	587.3	576.5	483.4	359.4	297.3	264.3	198.3	148.8
120°	599.5	641.5	599.5	557.5	547.0	461.9	348.5	291.8	261.6	201.3	156.0
122.5°	569.2	610.6	569.2	527.7	517.4	440.8	338.6	287.5	260.2	205.5	164.5
125°	525.8	564.0	525.8	487.7	478.2	413.1	326.3	283.0	259.0	211.2	175.3
127.5°	486.9	519.1	486.9	454.7	446.7	390.8	316.3	279.1	258.4	216.9	185.8
130°	464.1	493.8	464.1	434.3	426.9	377.1	310.8	277.6	258.8	221.1	192.8
132.5°	443.2	469.9	443.2	416.6	409.9	365.3	306.0	276.4	259.0	224.5	198.5
135°	414.7	437.7	414.7	391.7	386.0	348.7	298.9	274.1	258.8	228.2	205.1
137.5°	391.8	410.6	391.8	373.0	368.3	336.8	294.7	273.8	260.4	233.7	213.6
140°	376.2	393.7	376.2	358.6	354.2	327.0	290.6	272.4	260.6	237.0	219.3
142.5°	363.1	378.3	363.1	347.9	344.2	320.3	288.4	272.4	261.5	239.8	223.5
145°	343.7	355.1	343.7	332.1	329.3	309.7	283.7	270.6	261.6	243.5	229.9
147.5°	328.7	338.1	328.7	319.2	316.8	301.4	280.9	270.6	263.4	249.0	238.1
150°	319.3	327.0	319.3	311.6	309.6	296.6	279.3	270.6	264.3	251.7	242.3
152.5°	311.2	317.0	311.2	305.4	303.9	292.9	278.1	270.6	264.9	253.6	245.0
155°	302.0	305.8	302.0	298.1	297.2	288.3	276.5	270.6	266.3	257.6	251.1
157.5°	294.7	297.3	294.7	292.0	291.3	284.4	275.2	270.6	267.6	261.6	257.2
160°	290.3	291.8	290.3	288.7	288.3	282.4	274.6	270.6	268.2	263.5	259.9
162.5°	287.4	288.9	287.4	285.9	285.5	280.6	273.9	270.6	268.9	265.5	262.9
165°	283.2	284.8	283.2	281.6	281.3	277.7	273.0	270.6	269.8	268.3	267.2
167.5°	280.3	280.9	280.3	279.7	279.5	277.2	274.0	272.4	271.8	270.5	269.5
170°	279.5	279.5	279.5	279.5	279.5	277.2	274.0	272.4	272.4	272.3	272.2
172.5°	277.2	276.7	277.2	277.8	278.0	276.1	273.7	272.4	272.4	272.4	272.4
175°	276.0	276.0	276.0	276.0	276.0	274.8	273.2	272.4	272.8	273.6	274.1
177.5°	274.8	274.1	274.8	275.5	275.6	274.7	273.5	272.9	273.1	273.7	274.1
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



TEST NUMBER: P934333

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	957.1	951.6	951.6	942.7	939.1	936.4	932.0	918.6	915.0	911.5	916.8
5°	965.1	955.3	948.1	932.0	918.6	913.2	896.3	864.1	842.7	826.7	817.7
7.5°	966.9	954.4	940.9	915.9	883.8	869.5	817.7	758.8	742.7	728.5	719.5
10°	965.1	950.7	932.0	894.5	818.6	793.6	741.9	703.5	693.7	691.0	693.7
12.5°	958.9	945.4	919.5	857.0	750.8	733.8	703.5	681.2	679.4	683.8	707.9
15°	948.1	935.6	905.2	807.0	713.3	700.8	679.4	671.3	681.2	712.4	784.7
17.5°	937.3	923.1	885.6	757.9	684.7	675.8	660.6	676.7	732.0	774.0	798.1
20°	923.1	906.1	863.3	722.2	664.2	656.2	649.0	721.3	763.3	778.5	791.8
22.5°	906.1	888.2	832.9	697.2	642.8	636.5	641.0	746.3	763.3	774.0	785.6
25°	883.8	868.6	797.2	677.6	625.8	618.7	635.6	743.6	753.5	756.1	779.3
27.5°	863.3	843.6	759.7	659.7	605.3	602.6	640.1	732.0	739.2	741.9	766.8
30°	838.3	808.8	717.8	641.0	583.9	583.0	641.0	717.8	716.0	723.1	748.1
32.5°	812.4	757.0	670.4	617.8	563.3	562.4	634.7	696.3	694.5	704.4	723.1
35°	788.3	716.9	606.2	591.0	537.4	538.3	619.6	671.3	672.2	681.2	692.8
37.5°	763.3	682.1	535.7	561.5	512.5	512.5	599.0	648.1	646.3	649.0	665.1
40°	733.8	627.6	473.2	523.2	489.2	486.6	574.0	623.1	616.9	616.0	638.3
42.5°	702.6	567.8	426.8	472.3	462.5	458.9	543.7	592.8	581.2	583.9	612.4
45°	668.7	551.7	391.1	399.1	434.8	432.1	510.7	558.0	549.9	557.1	586.5
47.5°	634.7	519.6	379.5	331.3	405.3	404.4	474.1	524.1	519.6	526.7	558.0
50°	588.3	483.9	378.6	283.9	372.3	375.9	430.3	491.0	491.0	497.3	530.3
52.5°	528.5	440.2	343.7	257.1	333.9	344.6	391.9	462.5	464.3	470.5	500.0
55°	474.1	394.6	318.8	236.5	288.3	311.5	354.5	433.0	436.6	442.8	469.6
57.5°	424.1	328.6	313.3	212.4	246.4	268.7	321.4	404.4	406.2	411.6	437.5
60°	370.5	237.4	287.4	186.6	209.8	226.7	291.0	370.5	376.8	380.3	402.7
62.5°	309.7	172.3	260.6	168.7	191.9	195.5	266.0	338.4	346.4	349.1	362.5
65°	220.5	144.6	221.4	153.5	173.2	174.1	239.2	305.3	312.4	316.9	326.8
67.5°	149.1	117.8	168.7	139.2	158.9	159.8	213.3	266.9	276.7	280.3	286.5
70°	103.5	78.6	125.0	124.1	142.8	144.6	185.7	232.1	241.0	243.7	247.3
72.5°	75.9	63.4	103.5	111.6	125.9	127.6	157.1	192.8	201.7	204.4	206.2
75°	58.0	66.9	83.9	97.3	107.1	108.0	128.5	157.1	163.3	165.1	166.0
77.5°	46.4	62.5	61.6	78.6	87.5	85.7	100.9	121.4	126.8	126.8	126.8
80°	34.8	49.1	46.4	56.2	64.3	62.5	72.3	86.6	88.4	90.2	89.3
82.5°	25.9	31.2	31.2	35.7	42.8	41.1	48.2	56.2	56.2	56.2	58.0
85°	16.1	17.9	14.3	18.7	24.1	23.2	26.8	30.3	31.2	31.2	29.5
87.5°	9.8	8.0	4.5	7.1	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	14.0	12.4	9.3
92.5°	32.4	19.8	7.3	19.8	32.4	35.5	49.9	69.1	78.7	69.0	49.5
95°	63.5	40.5	17.7	40.5	63.5	69.2	122.8	194.3	230.1	205.3	155.8
97.5°	70.9	50.7	30.5	50.7	70.9	76.0	165.4	284.7	344.4	328.8	297.4
100°	77.1	58.7	40.4	58.7	77.1	81.7	180.9	313.3	379.5	380.7	383.0
102.5°	83.1	66.1	48.9	66.1	83.1	87.4	188.1	322.3	389.5	409.4	449.3
105°	92.2	77.7	63.3	77.7	92.2	95.9	193.3	323.4	388.4	433.1	522.5
107.5°	105.0	91.5	78.0	91.5	105.0	108.4	194.3	309.0	366.3	428.7	553.5
110°	112.3	100.1	87.9	100.1	112.3	115.3	192.9	296.3	347.9	417.7	557.2



TEST NUMBER: P934333

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	120.9	109.3	97.7	109.3	120.9	123.8	192.9	285.1	331.2	402.6	545.3
115°	133.8	123.1	112.4	123.1	133.8	136.5	194.7	272.2	311.1	379.8	517.4
117.5°	146.4	136.7	126.9	136.7	146.4	148.8	198.3	264.3	297.3	359.4	483.4
120°	153.7	144.6	135.4	144.6	153.7	156.0	201.3	261.6	291.8	348.5	461.9
122.5°	162.2	153.0	143.7	153.0	162.2	164.5	205.5	260.2	287.5	338.6	440.8
125°	173.2	164.8	156.4	164.8	173.2	175.3	211.2	259.0	283.0	326.3	413.1
127.5°	183.7	175.2	166.7	175.2	183.7	185.8	216.9	258.4	279.1	316.3	390.8
130°	190.5	181.4	172.2	181.4	190.5	192.8	221.1	258.8	277.6	310.8	377.1
132.5°	196.2	187.1	177.9	187.1	196.2	198.5	224.5	259.0	276.4	306.0	365.3
135°	203.1	194.7	186.4	194.7	203.1	205.1	228.2	258.8	274.1	298.9	348.7
137.5°	211.6	203.2	195.0	203.2	211.6	213.6	233.7	260.4	273.8	294.7	336.8
140°	217.4	209.8	202.2	209.8	217.4	219.3	237.0	260.6	272.4	290.6	327.0
142.5°	221.7	214.8	207.7	214.8	221.7	223.5	239.8	261.5	272.4	288.4	320.3
145°	228.4	222.3	216.2	222.3	228.4	229.9	243.5	261.6	270.6	283.7	309.7
147.5°	236.5	230.7	224.7	230.7	236.5	238.1	249.0	263.4	270.6	280.9	301.4
150°	240.9	235.5	230.1	235.5	240.9	242.3	251.7	264.3	270.6	279.3	296.6
152.5°	244.0	239.9	235.8	239.9	244.0	245.0	253.6	264.9	270.6	278.1	292.9
155°	250.4	247.3	244.3	247.3	250.4	251.1	257.6	266.3	270.6	276.5	288.3
157.5°	256.4	253.5	250.6	253.5	256.4	257.2	261.6	267.6	270.6	275.2	284.4
160°	259.4	257.1	254.8	257.1	259.4	259.9	263.5	268.2	270.6	274.6	282.4
162.5°	262.4	260.7	259.0	260.7	262.4	262.9	265.5	268.9	270.6	273.9	280.6
165°	266.8	265.2	263.7	265.2	266.8	267.2	268.3	269.8	270.6	273.0	277.7
167.5°	269.3	268.6	267.9	268.6	269.3	269.5	270.5	271.8	272.4	274.0	277.2
170°	272.1	271.4	270.6	271.4	272.1	272.2	272.3	272.4	272.4	274.0	277.2
172.5°	272.4	272.2	272.1	272.2	272.4	272.4	272.4	272.4	272.4	273.7	276.1
175°	274.1	274.1	274.1	274.1	274.1	274.1	273.6	272.8	272.4	273.2	274.8
177.5°	274.1	274.1	274.1	274.1	274.1	274.1	273.7	273.1	272.9	273.5	274.7
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



TEST NUMBER: P934333

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	910.6	907.9	911.5	901.6	911.5	907.9	910.6	916.8	911.5	915.0	918.6
5°	799.0	794.5	780.2	768.6	780.2	794.5	799.0	817.7	826.7	842.7	864.1
7.5°	714.2	710.6	707.0	699.9	707.0	710.6	714.2	719.5	728.5	742.7	758.8
10°	695.4	696.3	701.7	700.8	701.7	696.3	695.4	693.7	691.0	693.7	703.5
12.5°	743.6	751.7	781.1	779.3	781.1	751.7	743.6	707.9	683.8	679.4	681.2
15°	799.0	801.7	807.9	808.8	807.9	801.7	799.0	784.7	712.4	681.2	671.3
17.5°	804.3	805.2	809.7	809.7	809.7	805.2	804.3	798.1	774.0	732.0	676.7
20°	799.9	801.7	810.6	812.4	810.6	801.7	799.9	791.8	778.5	763.3	721.3
22.5°	798.1	801.7	808.8	807.9	808.8	801.7	798.1	785.6	774.0	763.3	746.3
25°	789.2	789.2	790.1	791.0	790.1	789.2	789.2	779.3	756.1	753.5	743.6
27.5°	770.4	772.2	777.6	776.7	777.6	772.2	770.4	766.8	741.9	739.2	732.0
30°	753.5	751.7	747.2	743.6	747.2	751.7	753.5	748.1	723.1	716.0	717.8
32.5°	724.9	720.4	716.0	713.3	716.0	720.4	724.9	723.1	704.4	694.5	696.3
35°	691.0	691.9	691.0	688.3	691.0	691.9	691.0	692.8	681.2	672.2	671.3
37.5°	666.9	668.7	667.8	664.2	667.8	668.7	666.9	665.1	649.0	646.3	648.1
40°	641.9	642.8	641.9	639.2	641.9	642.8	641.9	638.3	616.0	616.9	623.1
42.5°	617.8	616.9	614.2	612.4	614.2	616.9	617.8	612.4	583.9	581.2	592.8
45°	590.1	591.0	585.6	583.0	585.6	591.0	590.1	586.5	557.1	549.9	558.0
47.5°	562.4	562.4	558.0	555.3	558.0	562.4	562.4	558.0	526.7	519.6	524.1
50°	533.0	532.1	525.8	524.9	525.8	532.1	533.0	530.3	497.3	491.0	491.0
52.5°	499.1	499.1	500.0	501.7	500.0	499.1	499.1	500.0	470.5	464.3	462.5
55°	469.6	470.5	476.7	478.5	476.7	470.5	469.6	469.6	442.8	436.6	433.0
57.5°	439.3	439.3	443.7	443.7	443.7	439.3	439.3	437.5	411.6	406.2	404.4
60°	404.4	406.2	409.8	408.9	409.8	406.2	404.4	402.7	380.3	376.8	370.5
62.5°	367.8	369.6	370.5	368.7	370.5	369.6	367.8	362.5	349.1	346.4	338.4
65°	329.5	331.3	332.1	330.4	332.1	331.3	329.5	326.8	316.9	312.4	305.3
67.5°	290.1	289.2	288.3	291.9	288.3	289.2	290.1	286.5	280.3	276.7	266.9
70°	249.9	249.9	249.0	250.8	249.0	249.9	249.9	247.3	243.7	241.0	232.1
72.5°	207.1	206.2	209.8	207.1	209.8	206.2	207.1	206.2	204.4	201.7	192.8
75°	165.1	166.9	165.1	167.8	165.1	166.9	165.1	166.0	165.1	163.3	157.1
77.5°	125.9	127.6	125.9	125.9	125.9	127.6	125.9	126.8	126.8	126.8	121.4
80°	89.3	88.4	88.4	87.5	88.4	88.4	89.3	89.3	90.2	88.4	86.6
82.5°	57.1	56.2	56.2	58.0	56.2	56.2	57.1	58.0	56.2	56.2	56.2
85°	31.2	32.1	30.3	30.3	30.3	32.1	31.2	29.5	31.2	31.2	30.3
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	14.0	12.1
92.5°	35.0	33.6	28.0	22.4	28.0	33.6	35.0	49.5	69.0	78.7	69.1
95°	118.6	114.4	97.6	80.8	97.6	114.4	118.6	155.8	205.3	230.1	194.3
97.5°	273.9	265.9	233.9	201.8	233.9	265.9	273.9	297.4	328.8	344.4	284.7
100°	384.7	375.2	337.0	298.8	337.0	375.2	384.7	383.0	380.7	379.5	313.3
102.5°	479.2	471.0	438.4	405.7	438.4	471.0	479.2	449.3	409.4	389.5	322.3
105°	589.7	585.3	567.7	550.1	567.7	585.3	589.7	522.5	433.1	388.4	323.4
107.5°	647.1	648.1	652.3	656.6	652.3	648.1	647.1	553.5	428.7	366.3	309.0
110°	661.8	666.3	684.6	702.9	684.6	666.3	661.8	557.2	417.7	347.9	296.3



TEST NUMBER: P934333

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	652.4	659.5	687.6	715.7	687.6	659.5	652.4	545.3	402.6	331.2	285.1
115°	620.5	630.3	669.3	708.3	669.3	630.3	620.5	517.4	379.8	311.1	272.2
117.5°	576.5	587.3	630.6	673.9	630.6	587.3	576.5	483.4	359.4	297.3	264.3
120°	547.0	557.5	599.5	641.5	599.5	557.5	547.0	461.9	348.5	291.8	261.6
122.5°	517.4	527.7	569.2	610.6	569.2	527.7	517.4	440.8	338.6	287.5	260.2
125°	478.2	487.7	525.8	564.0	525.8	487.7	478.2	413.1	326.3	283.0	259.0
127.5°	446.7	454.7	486.9	519.1	486.9	454.7	446.7	390.8	316.3	279.1	258.4
130°	426.9	434.3	464.1	493.8	464.1	434.3	426.9	377.1	310.8	277.6	258.8
132.5°	409.9	416.6	443.2	469.9	443.2	416.6	409.9	365.3	306.0	276.4	259.0
135°	386.0	391.7	414.7	437.7	414.7	391.7	386.0	348.7	298.9	274.1	258.8
137.5°	368.3	373.0	391.8	410.6	391.8	373.0	368.3	336.8	294.7	273.8	260.4
140°	354.2	358.6	376.2	393.7	376.2	358.6	354.2	327.0	290.6	272.4	260.6
142.5°	344.2	347.9	363.1	378.3	363.1	347.9	344.2	320.3	288.4	272.4	261.5
145°	329.3	332.1	343.7	355.1	343.7	332.1	329.3	309.7	283.7	270.6	261.6
147.5°	316.8	319.2	328.7	338.1	328.7	319.2	316.8	301.4	280.9	270.6	263.4
150°	309.6	311.6	319.3	327.0	319.3	311.6	309.6	296.6	279.3	270.6	264.3
152.5°	303.9	305.4	311.2	317.0	311.2	305.4	303.9	292.9	278.1	270.6	264.9
155°	297.2	298.1	302.0	305.8	302.0	298.1	297.2	288.3	276.5	270.6	266.3
157.5°	291.3	292.0	294.7	297.3	294.7	292.0	291.3	284.4	275.2	270.6	267.6
160°	288.3	288.7	290.3	291.8	290.3	288.7	288.3	282.4	274.6	270.6	268.2
162.5°	285.5	285.9	287.4	288.9	287.4	285.9	285.5	280.6	273.9	270.6	268.9
165°	281.3	281.6	283.2	284.8	283.2	281.6	281.3	277.7	273.0	270.6	269.8
167.5°	279.5	279.7	280.3	280.9	280.3	279.7	279.5	277.2	274.0	272.4	271.8
170°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	277.2	274.0	272.4	272.4
172.5°	278.0	277.8	277.2	276.7	277.2	277.8	278.0	276.1	273.7	272.4	272.4
175°	276.0	276.0	276.0	276.0	276.0	276.0	276.0	274.8	273.2	272.4	272.8
177.5°	275.6	275.5	274.8	274.1	274.8	275.5	275.6	274.7	273.5	272.9	273.1
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



TEST NUMBER: P934333

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	943.6	943.6	943.6	943.6	943.6
2.5°	932.0	936.4	939.1	942.7	951.6
5°	896.3	913.2	918.6	932.0	948.1
7.5°	817.7	869.5	883.8	915.9	940.9
10°	741.9	793.6	818.6	894.5	932.0
12.5°	703.5	733.8	750.8	857.0	919.5
15°	679.4	700.8	713.3	807.0	905.2
17.5°	660.6	675.8	684.7	757.9	885.6
20°	649.0	656.2	664.2	722.2	863.3
22.5°	641.0	636.5	642.8	697.2	832.9
25°	635.6	618.7	625.8	677.6	797.2
27.5°	640.1	602.6	605.3	659.7	759.7
30°	641.0	583.0	583.9	641.0	717.8
32.5°	634.7	562.4	563.3	617.8	670.4
35°	619.6	538.3	537.4	591.0	606.2
37.5°	599.0	512.5	512.5	561.5	535.7
40°	574.0	486.6	489.2	523.2	473.2
42.5°	543.7	458.9	462.5	472.3	426.8
45°	510.7	432.1	434.8	399.1	391.1
47.5°	474.1	404.4	405.3	331.3	379.5
50°	430.3	375.9	372.3	283.9	378.6
52.5°	391.9	344.6	333.9	257.1	343.7
55°	354.5	311.5	288.3	236.5	318.8
57.5°	321.4	268.7	246.4	212.4	313.3
60°	291.0	226.7	209.8	186.6	287.4
62.5°	266.0	195.5	191.9	168.7	260.6
65°	239.2	174.1	173.2	153.5	221.4
67.5°	213.3	159.8	158.9	139.2	168.7
70°	185.7	144.6	142.8	124.1	125.0
72.5°	157.1	127.6	125.9	111.6	103.5
75°	128.5	108.0	107.1	97.3	83.9
77.5°	100.9	85.7	87.5	78.6	61.6
80°	72.3	62.5	64.3	56.2	46.4
82.5°	48.2	41.1	42.8	35.7	31.2
85°	26.8	23.2	24.1	18.7	14.3
87.5°	12.5	10.7	10.7	7.1	4.5
90°	8.1	5.2	4.8	3.3	1.9
92.5°	49.9	35.5	32.4	19.8	7.3
95°	122.8	69.2	63.5	40.5	17.7
97.5°	165.4	76.0	70.9	50.7	30.5
100°	180.9	81.7	77.1	58.7	40.4
102.5°	188.1	87.4	83.1	66.1	48.9
105°	193.3	95.9	92.2	77.7	63.3
107.5°	194.3	108.4	105.0	91.5	78.0
110°	192.9	115.3	112.3	100.1	87.9



TEST NUMBER: P934333

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	192.9	123.8	120.9	109.3	97.7
115°	194.7	136.5	133.8	123.1	112.4
117.5°	198.3	148.8	146.4	136.7	126.9
120°	201.3	156.0	153.7	144.6	135.4
122.5°	205.5	164.5	162.2	153.0	143.7
125°	211.2	175.3	173.2	164.8	156.4
127.5°	216.9	185.8	183.7	175.2	166.7
130°	221.1	192.8	190.5	181.4	172.2
132.5°	224.5	198.5	196.2	187.1	177.9
135°	228.2	205.1	203.1	194.7	186.4
137.5°	233.7	213.6	211.6	203.2	195.0
140°	237.0	219.3	217.4	209.8	202.2
142.5°	239.8	223.5	221.7	214.8	207.7
145°	243.5	229.9	228.4	222.3	216.2
147.5°	249.0	238.1	236.5	230.7	224.7
150°	251.7	242.3	240.9	235.5	230.1
152.5°	253.6	245.0	244.0	239.9	235.8
155°	257.6	251.1	250.4	247.3	244.3
157.5°	261.6	257.2	256.4	253.5	250.6
160°	263.5	259.9	259.4	257.1	254.8
162.5°	265.5	262.9	262.4	260.7	259.0
165°	268.3	267.2	266.8	265.2	263.7
167.5°	270.5	269.5	269.3	268.6	267.9
170°	272.3	272.2	272.1	271.4	270.6
172.5°	272.4	272.4	272.4	272.2	272.1
175°	273.6	274.1	274.1	274.1	274.1
177.5°	273.7	274.1	274.1	274.1	274.1
180°	274.1	274.1	274.1	274.1	274.1



TEST NUMBER: P934333
 CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3500K

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	13.03	13.97	13.92	14.88	16.03	15.83	16.77	16.72	17.68	18.83
	3H	13.52	14.36	14.42	15.27	16.45	17.17	18.01	18.07	18.93	20.11
	4H	13.71	14.51	14.63	15.43	16.62	17.61	18.41	18.53	19.33	20.52
	6H	13.84	14.57	14.76	15.50	16.70	17.89	18.63	18.82	19.55	20.76
	8H	13.84	14.54	14.77	15.48	16.68	17.97	18.66	18.90	19.61	20.81
	12H	13.81	14.48	14.75	15.41	16.64	18.00	18.67	18.94	19.61	20.83
4H	2H	14.07	14.86	14.99	15.78	16.97	16.25	17.05	17.17	17.97	19.16
	3H	15.10	15.76	16.03	16.72	17.92	17.75	18.42	18.68	19.37	20.57
	4H	15.38	15.99	16.32	16.93	18.16	18.28	18.88	19.22	19.83	21.06
	6H	15.51	16.03	16.46	17.00	18.23	18.64	19.16	19.59	20.13	21.36
	8H	15.52	16.01	16.47	16.97	18.21	18.74	19.23	19.70	20.20	21.44
	12H	15.49	15.93	16.46	16.91	18.16	18.80	19.24	19.77	20.22	21.47
8H	4H	15.84	16.32	16.79	17.29	18.53	18.41	18.90	19.37	19.86	21.10
	6H	16.10	16.50	17.08	17.51	18.75	18.84	19.24	19.82	20.25	21.49
	8H	16.14	16.50	17.13	17.49	18.75	18.99	19.34	19.98	20.34	21.60
	12H	16.13	16.44	17.13	17.43	18.74	19.09	19.40	20.08	20.39	21.69
12H	4H	15.84	16.28	16.82	17.27	18.51	18.38	18.82	19.35	19.80	21.05
	6H	16.16	16.52	17.15	17.51	18.77	18.84	19.20	19.83	20.19	21.45
	8H	16.23	16.54	17.22	17.53	18.84	19.00	19.31	19.99	20.30	21.61