

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: P934334

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934334
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-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

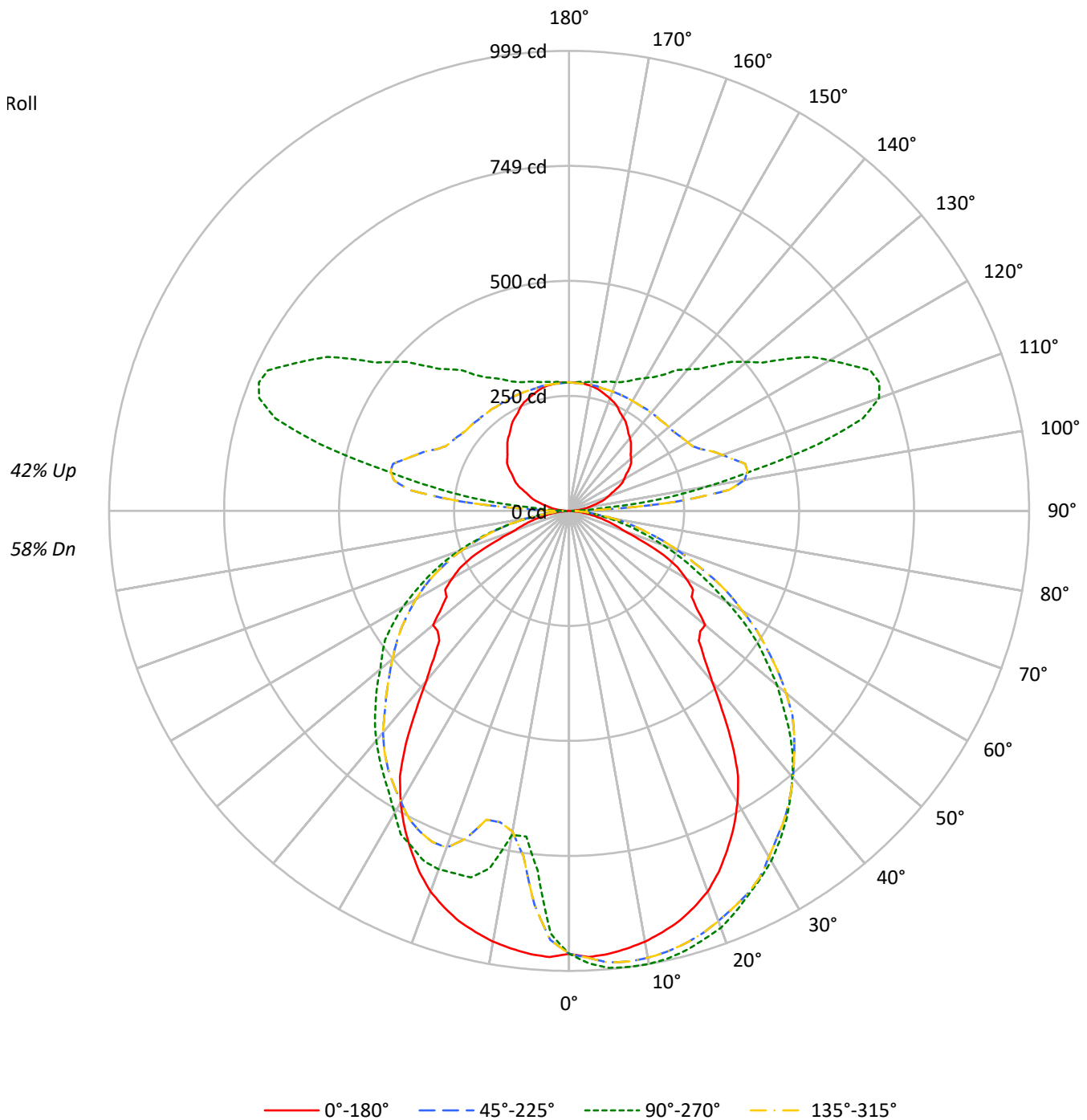
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4305.2 lumens
Efficiency: N/A
Efficacy: 118.3 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

TEST NUMBER: P934334
CATALOG NUMBER: SQ4-FA-050U-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	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°	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	2.0
10°-20°	246.5	5.7
20°-30°	381.0	8.8
30°-40°	454.8	10.6
40°-50°	457.5	10.6
50°-60°	398.1	9.2
60°-70°	282.2	6.6
70°-80°	149.3	3.5
80°-90°	38.2	0.9
90°-100°	136.2	3.2
100°-110°	358.0	8.3
110°-120°	371.2	8.6
120°-130°	297.8	6.9
130°-140°	233.6	5.4
140°-150°	179.3	4.2
150°-160°	129.1	3.0
160°-170°	79.0	1.8
170°-180°	26.7	0.6
0°-30°	714.2	16.6
0°-40°	1169.0	27.2
0°-60°	2024.6	47.0
0°-90°	2494.3	57.9
90°-120°	865.4	20.1
90°-150°	1576.0	36.6
90°-180°	1811.0	42.1
0°-180°	4305.2	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°	2	7	2	7	2	2
95°	18	82	18	82	18	20
105°	64	561	64	561	64	68
115°	114	722	114	722	114	113
125°	159	575	159	575	159	142
135°	190	446	190	446	190	147
145°	220	362	220	362	220	138
155°	249	312	249	312	249	114
165°	269	290	269	290	269	76
175°	279	281	279	281	279	27
180°	279	279	279	279	279	



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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°	1.9	3.4	4.9	5.3	8.3	12.3	14.3	12.6	9.5	7.1	7.1
92.5°	7.5	20.2	33.0	36.2	50.8	70.4	80.2	70.3	50.5	35.7	34.2
95°	18.0	41.3	64.7	70.5	125.2	198.0	234.5	209.2	158.7	120.9	116.6
97.5°	31.1	51.7	72.2	77.4	168.6	290.2	350.9	335.0	303.1	279.2	271.0
100°	41.2	59.9	78.6	83.2	184.4	319.3	386.8	388.0	390.3	392.1	382.3
102.5°	49.8	67.3	84.7	89.1	191.7	328.5	396.9	417.3	457.9	488.4	480.0
105°	64.5	79.2	94.0	97.7	197.0	329.6	395.8	441.4	532.5	600.9	596.4
107.5°	79.5	93.2	107.0	110.4	198.0	314.9	373.3	436.9	564.1	659.4	660.5
110°	89.6	102.0	114.4	117.5	196.6	301.9	354.6	425.6	567.8	674.4	679.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	99.5	111.3	123.2	126.2	196.6	290.5	337.5	410.2	555.7	664.9	672.0
115°	114.5	125.4	136.4	139.1	198.4	277.4	317.0	387.1	527.2	632.4	642.3
117.5°	129.4	139.3	149.2	151.6	202.1	269.3	303.0	366.2	492.7	587.5	598.5
120°	138.0	147.4	156.6	159.0	205.1	266.6	297.4	355.1	470.7	557.4	568.2
122.5°	146.5	155.9	165.3	167.6	209.4	265.2	293.0	345.0	449.2	527.2	537.8
125°	159.4	167.9	176.5	178.7	215.2	264.0	288.4	332.6	421.0	487.3	497.0
127.5°	169.8	178.6	187.2	189.4	221.0	263.3	284.4	322.4	398.2	455.2	463.4
130°	175.5	184.8	194.1	196.5	225.3	263.7	282.9	316.7	384.3	435.0	442.5
132.5°	181.3	190.7	199.9	202.3	228.8	264.0	281.6	311.8	372.3	417.7	424.5
135°	189.9	198.4	206.9	209.0	232.5	263.7	279.3	304.6	355.3	393.3	399.1
137.5°	198.8	207.1	215.6	217.7	238.1	265.3	279.0	300.4	343.2	375.3	380.1
140°	206.0	213.8	221.6	223.5	241.5	265.6	277.6	296.2	333.2	360.9	365.4
142.5°	211.7	218.9	226.0	227.8	244.4	266.5	277.6	293.9	326.4	350.8	354.6
145°	220.3	226.5	232.8	234.3	248.1	266.6	275.8	289.1	315.6	335.6	338.5
147.5°	229.0	235.1	241.1	242.6	253.7	268.4	275.8	286.3	307.2	322.8	325.3
150°	234.5	240.0	245.5	246.9	256.5	269.3	275.8	284.6	302.3	315.6	317.6
152.5°	240.3	244.5	248.7	249.7	258.4	270.0	275.8	283.4	298.5	309.7	311.2
155°	249.0	252.1	255.2	255.9	262.5	271.3	275.8	281.8	293.8	302.8	303.8
157.5°	255.3	258.3	261.3	262.1	266.6	272.7	275.8	280.4	289.8	296.8	297.5
160°	259.7	262.0	264.3	264.9	268.5	273.3	275.8	279.8	287.8	293.8	294.2
162.5°	264.0	265.7	267.4	267.9	270.5	274.1	275.8	279.2	285.9	291.0	291.4
165°	268.7	270.3	271.9	272.3	273.4	275.0	275.8	278.2	283.0	286.6	287.0
167.5°	273.0	273.7	274.4	274.6	275.6	277.0	277.6	279.3	282.4	284.8	285.0
170°	275.8	276.5	277.3	277.4	277.5	277.6	277.6	279.3	282.4	284.8	284.8
172.5°	277.3	277.4	277.6	277.6	277.6	277.6	277.6	278.9	281.4	283.3	283.1
175°	279.3	279.3	279.3	279.3	278.8	278.0	277.6	278.4	280.1	281.3	281.3
177.5°	279.3	279.3	279.3	279.3	278.9	278.3	278.1	278.7	280.0	280.9	280.7
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



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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°	7.1	7.1	7.1	7.1	7.1	9.5	12.6	14.3	12.3	8.3	5.3
92.5°	28.6	22.8	28.6	34.2	35.7	50.5	70.3	80.2	70.4	50.8	36.2
95°	99.4	82.3	99.4	116.6	120.9	158.7	209.2	234.5	198.0	125.2	70.5
97.5°	238.3	205.7	238.3	271.0	279.2	303.1	335.0	350.9	290.2	168.6	77.4
100°	343.4	304.5	343.4	382.3	392.1	390.3	388.0	386.8	319.3	184.4	83.2
102.5°	446.7	413.4	446.7	480.0	488.4	457.9	417.3	396.9	328.5	191.7	89.1
105°	578.5	560.6	578.5	596.4	600.9	532.5	441.4	395.8	329.6	197.0	97.7
107.5°	664.8	669.1	664.8	660.5	659.4	564.1	436.9	373.3	314.9	198.0	110.4
110°	697.7	716.3	697.7	679.0	674.4	567.8	425.6	354.6	301.9	196.6	117.5



TEST NUMBER: P934334

CATALOG NUMBER: SQ4-FA-050U-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°	700.7	729.3	700.7	672.0	664.9	555.7	410.2	337.5	290.5	196.6	126.2
115°	682.0	721.8	682.0	642.3	632.4	527.2	387.1	317.0	277.4	198.4	139.1
117.5°	642.7	686.8	642.7	598.5	587.5	492.7	366.2	303.0	269.3	202.1	151.6
120°	610.9	653.8	610.9	568.2	557.4	470.7	355.1	297.4	266.6	205.1	159.0
122.5°	580.1	622.3	580.1	537.8	527.2	449.2	345.0	293.0	265.2	209.4	167.6
125°	535.9	574.8	535.9	497.0	487.3	421.0	332.6	288.4	264.0	215.2	178.7
127.5°	496.2	529.0	496.2	463.4	455.2	398.2	322.4	284.4	263.3	221.0	189.4
130°	472.9	503.2	472.9	442.5	435.0	384.3	316.7	282.9	263.7	225.3	196.5
132.5°	451.6	478.8	451.6	424.5	417.7	372.3	311.8	281.6	264.0	228.8	202.3
135°	422.6	446.0	422.6	399.1	393.3	355.3	304.6	279.3	263.7	232.5	209.0
137.5°	399.2	418.4	399.2	380.1	375.3	343.2	300.4	279.0	265.3	238.1	217.7
140°	383.3	401.2	383.3	365.4	360.9	333.2	296.2	277.6	265.6	241.5	223.5
142.5°	370.0	385.5	370.0	354.6	350.8	326.4	293.9	277.6	266.5	244.4	227.8
145°	350.2	361.9	350.2	338.5	335.6	315.6	289.1	275.8	266.6	248.1	234.3
147.5°	334.9	344.6	334.9	325.3	322.8	307.2	286.3	275.8	268.4	253.7	242.6
150°	325.4	333.2	325.4	317.6	315.6	302.3	284.6	275.8	269.3	256.5	246.9
152.5°	317.1	323.0	317.1	311.2	309.7	298.5	283.4	275.8	270.0	258.4	249.7
155°	307.7	311.6	307.7	303.8	302.8	293.8	281.8	275.8	271.3	262.5	255.9
157.5°	300.3	303.0	300.3	297.5	296.8	289.8	280.4	275.8	272.7	266.6	262.1
160°	295.8	297.4	295.8	294.2	293.8	287.8	279.8	275.8	273.3	268.5	264.9
162.5°	292.9	294.4	292.9	291.4	291.0	285.9	279.2	275.8	274.1	270.5	267.9
165°	288.6	290.3	288.6	287.0	286.6	283.0	278.2	275.8	275.0	273.4	272.3
167.5°	285.6	286.3	285.6	285.0	284.8	282.4	279.3	277.6	277.0	275.6	274.6
170°	284.8	284.8	284.8	284.8	284.8	282.4	279.3	277.6	277.6	277.5	277.4
172.5°	282.5	282.0	282.5	283.1	283.3	281.4	278.9	277.6	277.6	277.6	277.6
175°	281.3	281.3	281.3	281.3	281.3	280.1	278.4	277.6	278.0	278.8	279.3
177.5°	280.1	279.3	280.1	280.7	280.9	280.0	278.7	278.1	278.3	278.9	279.3
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934334

CATALOG NUMBER: SQ4-FA-050U-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°	4.9	3.4	1.9	3.4	4.9	5.3	8.3	12.3	14.3	12.6	9.5
92.5°	33.0	20.2	7.5	20.2	33.0	36.2	50.8	70.4	80.2	70.3	50.5
95°	64.7	41.3	18.0	41.3	64.7	70.5	125.2	198.0	234.5	209.2	158.7
97.5°	72.2	51.7	31.1	51.7	72.2	77.4	168.6	290.2	350.9	335.0	303.1
100°	78.6	59.9	41.2	59.9	78.6	83.2	184.4	319.3	386.8	388.0	390.3
102.5°	84.7	67.3	49.8	67.3	84.7	89.1	191.7	328.5	396.9	417.3	457.9
105°	94.0	79.2	64.5	79.2	94.0	97.7	197.0	329.6	395.8	441.4	532.5
107.5°	107.0	93.2	79.5	93.2	107.0	110.4	198.0	314.9	373.3	436.9	564.1
110°	114.4	102.0	89.6	102.0	114.4	117.5	196.6	301.9	354.6	425.6	567.8



TEST NUMBER: P934334

CATALOG NUMBER: SQ4-FA-050U-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°	123.2	111.3	99.5	111.3	123.2	126.2	196.6	290.5	337.5	410.2	555.7
115°	136.4	125.4	114.5	125.4	136.4	139.1	198.4	277.4	317.0	387.1	527.2
117.5°	149.2	139.3	129.4	139.3	149.2	151.6	202.1	269.3	303.0	366.2	492.7
120°	156.6	147.4	138.0	147.4	156.6	159.0	205.1	266.6	297.4	355.1	470.7
122.5°	165.3	155.9	146.5	155.9	165.3	167.6	209.4	265.2	293.0	345.0	449.2
125°	176.5	167.9	159.4	167.9	176.5	178.7	215.2	264.0	288.4	332.6	421.0
127.5°	187.2	178.6	169.8	178.6	187.2	189.4	221.0	263.3	284.4	322.4	398.2
130°	194.1	184.8	175.5	184.8	194.1	196.5	225.3	263.7	282.9	316.7	384.3
132.5°	199.9	190.7	181.3	190.7	199.9	202.3	228.8	264.0	281.6	311.8	372.3
135°	206.9	198.4	189.9	198.4	206.9	209.0	232.5	263.7	279.3	304.6	355.3
137.5°	215.6	207.1	198.8	207.1	215.6	217.7	238.1	265.3	279.0	300.4	343.2
140°	221.6	213.8	206.0	213.8	221.6	223.5	241.5	265.6	277.6	296.2	333.2
142.5°	226.0	218.9	211.7	218.9	226.0	227.8	244.4	266.5	277.6	293.9	326.4
145°	232.8	226.5	220.3	226.5	232.8	234.3	248.1	266.6	275.8	289.1	315.6
147.5°	241.1	235.1	229.0	235.1	241.1	242.6	253.7	268.4	275.8	286.3	307.2
150°	245.5	240.0	234.5	240.0	245.5	246.9	256.5	269.3	275.8	284.6	302.3
152.5°	248.7	244.5	240.3	244.5	248.7	249.7	258.4	270.0	275.8	283.4	298.5
155°	255.2	252.1	249.0	252.1	255.2	255.9	262.5	271.3	275.8	281.8	293.8
157.5°	261.3	258.3	255.3	258.3	261.3	262.1	266.6	272.7	275.8	280.4	289.8
160°	264.3	262.0	259.7	262.0	264.3	264.9	268.5	273.3	275.8	279.8	287.8
162.5°	267.4	265.7	264.0	265.7	267.4	267.9	270.5	274.1	275.8	279.2	285.9
165°	271.9	270.3	268.7	270.3	271.9	272.3	273.4	275.0	275.8	278.2	283.0
167.5°	274.4	273.7	273.0	273.7	274.4	274.6	275.6	277.0	277.6	279.3	282.4
170°	277.3	276.5	275.8	276.5	277.3	277.4	277.5	277.6	277.6	279.3	282.4
172.5°	277.6	277.4	277.3	277.4	277.6	277.6	277.6	277.6	277.6	278.9	281.4
175°	279.3	279.3	279.3	279.3	279.3	279.3	278.8	278.0	277.6	278.4	280.1
177.5°	279.3	279.3	279.3	279.3	279.3	279.3	278.9	278.3	278.1	278.7	280.0
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934334

CATALOG NUMBER: SQ4-FA-050U-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°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5	12.6	14.3	12.3
92.5°	35.7	34.2	28.6	22.8	28.6	34.2	35.7	50.5	70.3	80.2	70.4
95°	120.9	116.6	99.4	82.3	99.4	116.6	120.9	158.7	209.2	234.5	198.0
97.5°	279.2	271.0	238.3	205.7	238.3	271.0	279.2	303.1	335.0	350.9	290.2
100°	392.1	382.3	343.4	304.5	343.4	382.3	392.1	390.3	388.0	386.8	319.3
102.5°	488.4	480.0	446.7	413.4	446.7	480.0	488.4	457.9	417.3	396.9	328.5
105°	600.9	596.4	578.5	560.6	578.5	596.4	600.9	532.5	441.4	395.8	329.6
107.5°	659.4	660.5	664.8	669.1	664.8	660.5	659.4	564.1	436.9	373.3	314.9
110°	674.4	679.0	697.7	716.3	697.7	679.0	674.4	567.8	425.6	354.6	301.9



TEST NUMBER: P934334

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	664.9	672.0	700.7	729.3	700.7	672.0	664.9	555.7	410.2	337.5	290.5
115°	632.4	642.3	682.0	721.8	682.0	642.3	632.4	527.2	387.1	317.0	277.4
117.5°	587.5	598.5	642.7	686.8	642.7	598.5	587.5	492.7	366.2	303.0	269.3
120°	557.4	568.2	610.9	653.8	610.9	568.2	557.4	470.7	355.1	297.4	266.6
122.5°	527.2	537.8	580.1	622.3	580.1	537.8	527.2	449.2	345.0	293.0	265.2
125°	487.3	497.0	535.9	574.8	535.9	497.0	487.3	421.0	332.6	288.4	264.0
127.5°	455.2	463.4	496.2	529.0	496.2	463.4	455.2	398.2	322.4	284.4	263.3
130°	435.0	442.5	472.9	503.2	472.9	442.5	435.0	384.3	316.7	282.9	263.7
132.5°	417.7	424.5	451.6	478.8	451.6	424.5	417.7	372.3	311.8	281.6	264.0
135°	393.3	399.1	422.6	446.0	422.6	399.1	393.3	355.3	304.6	279.3	263.7
137.5°	375.3	380.1	399.2	418.4	399.2	380.1	375.3	343.2	300.4	279.0	265.3
140°	360.9	365.4	383.3	401.2	383.3	365.4	360.9	333.2	296.2	277.6	265.6
142.5°	350.8	354.6	370.0	385.5	370.0	354.6	350.8	326.4	293.9	277.6	266.5
145°	335.6	338.5	350.2	361.9	350.2	338.5	335.6	315.6	289.1	275.8	266.6
147.5°	322.8	325.3	334.9	344.6	334.9	325.3	322.8	307.2	286.3	275.8	268.4
150°	315.6	317.6	325.4	333.2	325.4	317.6	315.6	302.3	284.6	275.8	269.3
152.5°	309.7	311.2	317.1	323.0	317.1	311.2	309.7	298.5	283.4	275.8	270.0
155°	302.8	303.8	307.7	311.6	307.7	303.8	302.8	293.8	281.8	275.8	271.3
157.5°	296.8	297.5	300.3	303.0	300.3	297.5	296.8	289.8	280.4	275.8	272.7
160°	293.8	294.2	295.8	297.4	295.8	294.2	293.8	287.8	279.8	275.8	273.3
162.5°	291.0	291.4	292.9	294.4	292.9	291.4	291.0	285.9	279.2	275.8	274.1
165°	286.6	287.0	288.6	290.3	288.6	287.0	286.6	283.0	278.2	275.8	275.0
167.5°	284.8	285.0	285.6	286.3	285.6	285.0	284.8	282.4	279.3	277.6	277.0
170°	284.8	284.8	284.8	284.8	284.8	284.8	284.8	282.4	279.3	277.6	277.6
172.5°	283.3	283.1	282.5	282.0	282.5	283.1	283.3	281.4	278.9	277.6	277.6
175°	281.3	281.3	281.3	281.3	281.3	281.3	281.3	280.1	278.4	277.6	278.0
177.5°	280.9	280.7	280.1	279.3	280.1	280.7	280.9	280.0	278.7	278.1	278.3
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934334

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-4000K

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°	8.3	5.3	4.9	3.4	1.9
92.5°	50.8	36.2	33.0	20.2	7.5
95°	125.2	70.5	64.7	41.3	18.0
97.5°	168.6	77.4	72.2	51.7	31.1
100°	184.4	83.2	78.6	59.9	41.2
102.5°	191.7	89.1	84.7	67.3	49.8
105°	197.0	97.7	94.0	79.2	64.5
107.5°	198.0	110.4	107.0	93.2	79.5
110°	196.6	117.5	114.4	102.0	89.6



TEST NUMBER: P934334

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	196.6	126.2	123.2	111.3	99.5
115°	198.4	139.1	136.4	125.4	114.5
117.5°	202.1	151.6	149.2	139.3	129.4
120°	205.1	159.0	156.6	147.4	138.0
122.5°	209.4	167.6	165.3	155.9	146.5
125°	215.2	178.7	176.5	167.9	159.4
127.5°	221.0	189.4	187.2	178.6	169.8
130°	225.3	196.5	194.1	184.8	175.5
132.5°	228.8	202.3	199.9	190.7	181.3
135°	232.5	209.0	206.9	198.4	189.9
137.5°	238.1	217.7	215.6	207.1	198.8
140°	241.5	223.5	221.6	213.8	206.0
142.5°	244.4	227.8	226.0	218.9	211.7
145°	248.1	234.3	232.8	226.5	220.3
147.5°	253.7	242.6	241.1	235.1	229.0
150°	256.5	246.9	245.5	240.0	234.5
152.5°	258.4	249.7	248.7	244.5	240.3
155°	262.5	255.9	255.2	252.1	249.0
157.5°	266.6	262.1	261.3	258.3	255.3
160°	268.5	264.9	264.3	262.0	259.7
162.5°	270.5	267.9	267.4	265.7	264.0
165°	273.4	272.3	271.9	270.3	268.7
167.5°	275.6	274.6	274.4	273.7	273.0
170°	277.5	277.4	277.3	276.5	275.8
172.5°	277.6	277.6	277.6	277.4	277.3
175°	278.8	279.3	279.3	279.3	279.3
177.5°	278.9	279.3	279.3	279.3	279.3
180°	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934334

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-4000K

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	13.10	14.04	13.99	14.94	16.10	15.90	16.83	16.78	17.74	18.89
	3H	13.58	14.42	14.48	15.34	16.52	17.24	18.08	18.14	18.99	20.17
	4H	13.78	14.57	14.69	15.49	16.68	17.68	18.47	18.59	19.40	20.58
	6H	13.90	14.63	14.83	15.56	16.76	17.96	18.69	18.89	19.62	20.82
	8H	13.90	14.60	14.84	15.55	16.75	18.03	18.73	18.97	19.68	20.88
	12H	13.88	14.54	14.82	15.48	16.71	18.07	18.73	19.01	19.67	20.90
4H	2H	14.13	14.93	15.05	15.85	17.04	16.32	17.11	17.24	18.03	19.22
	3H	15.17	15.83	16.10	16.78	17.98	17.82	18.48	18.75	19.43	20.64
	4H	15.45	16.05	16.39	17.00	18.23	18.34	18.95	19.28	19.90	21.12
	6H	15.58	16.10	16.53	17.07	18.30	18.71	19.23	19.66	20.20	21.43
	8H	15.58	16.07	16.54	17.04	18.28	18.81	19.30	19.77	20.26	21.50
	12H	15.56	15.99	16.53	16.98	18.22	18.87	19.30	19.84	20.29	21.53
8H	4H	15.90	16.39	16.86	17.35	18.60	18.48	18.96	19.43	19.93	21.17
	6H	16.17	16.57	17.15	17.58	18.82	18.91	19.31	19.89	20.32	21.56
	8H	16.21	16.57	17.20	17.56	18.82	19.06	19.41	20.05	20.41	21.66
	12H	16.20	16.51	17.19	17.50	18.80	19.15	19.46	20.15	20.45	21.76
12H	4H	15.91	16.35	16.89	17.33	18.58	18.44	18.88	19.42	19.87	21.11
	6H	16.23	16.58	17.22	17.58	18.84	18.91	19.26	19.90	20.26	21.52
	8H	16.30	16.61	17.29	17.60	18.90	19.07	19.38	20.06	20.37	21.67