

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: P934331

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934331
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-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

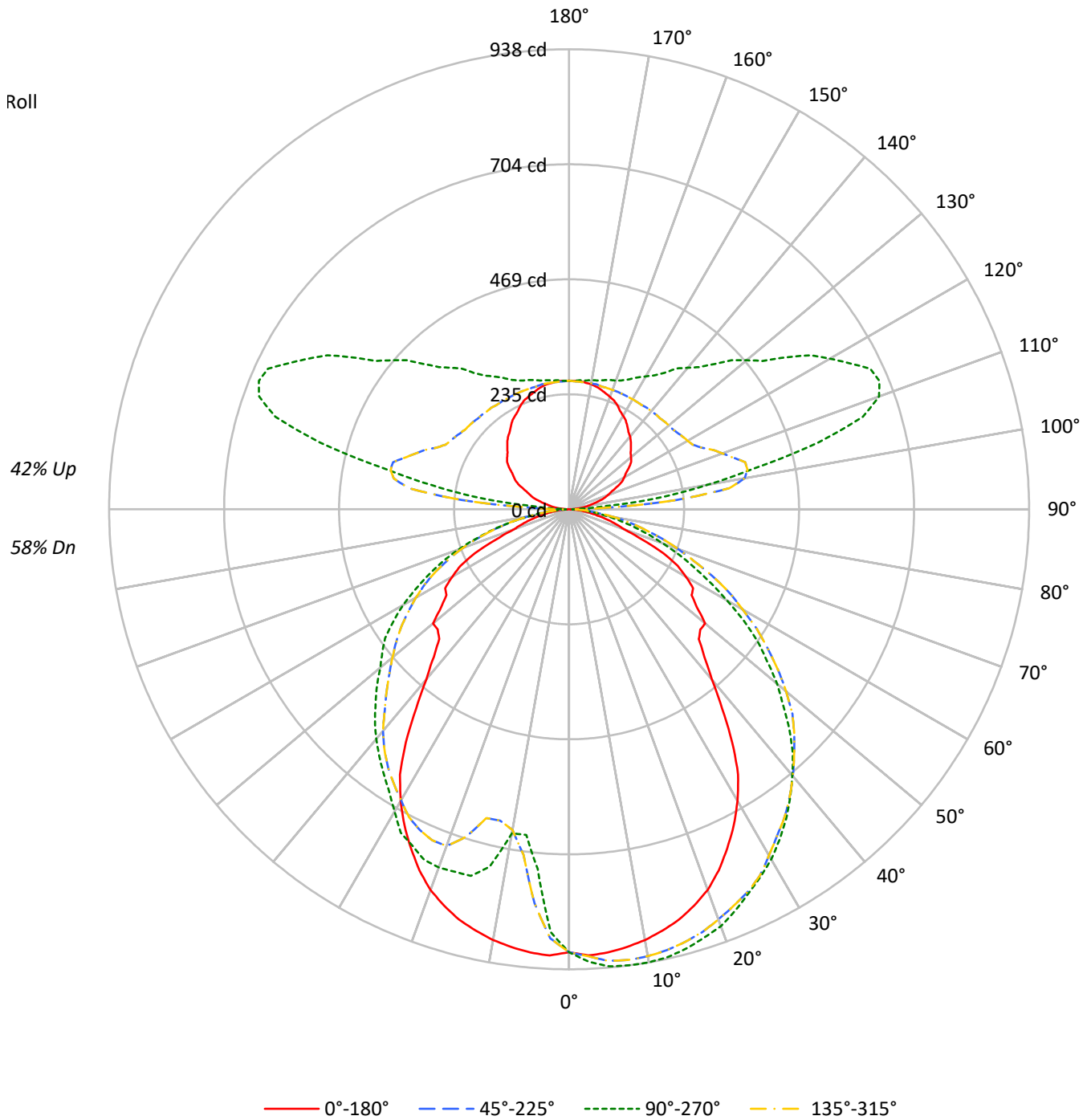
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4042.5 lumens
Efficiency: N/A
Efficacy: 111.1 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-4-2700K

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	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°	8378	8378	8378	8378
5°	8432	8458	8432	6650
10°	8366	8332	8366	5956
15°	8266	8151	8266	6806
20°	8083	7937	8083	6820
25°	7720	7625	7720	6675
30°	7254	7366	7254	6359
35°	6457	7039	6457	6010
40°	5372	6653	5372	5746
45°	4791	6202	4791	5443
50°	5077	5664	5077	5139
55°	4764	5084	4764	4963
60°	4892	4318	4892	4546
65°	4414	3568	4414	3990
70°	3036	2843	3036	3344
75°	2633	2102	2633	2518
80°	2078	1390	2078	1513
85°	1134	737	1134	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7356 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	2.0
10°-20°	231.4	5.7
20°-30°	357.7	8.8
30°-40°	427.0	10.6
40°-50°	429.6	10.6
50°-60°	373.8	9.2
60°-70°	265.0	6.6
70°-80°	140.2	3.5
80°-90°	35.9	0.9
90°-100°	127.8	3.2
100°-110°	336.1	8.3
110°-120°	348.5	8.6
120°-130°	279.6	6.9
130°-140°	219.4	5.4
140°-150°	168.4	4.2
150°-160°	121.3	3.0
160°-170°	74.2	1.8
170°-180°	25.1	0.6
0°-30°	670.6	16.6
0°-40°	1097.7	27.2
0°-60°	1901.0	47.0
0°-90°	2342.1	57.9
90°-120°	812.5	20.1
90°-150°	1479.9	36.6
90°-180°	1700.0	42.1
0°-180°	4042.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	903	903	903	903	903	
5°	907	935	907	736	907	86
15°	866	927	866	774	866	244
25°	763	864	763	757	763	350
35°	580	771	580	659	580	359
45°	374	636	374	558	374	300
55°	305	469	305	458	305	280
65°	212	283	212	316	212	202
75°	80	134	80	161	80	84
85°	14	34	14	29	14	18
90°	2	7	2	7	2	2
95°	17	77	17	77	17	19
105°	61	526	61	526	61	64
115°	108	678	108	678	108	106
125°	150	540	150	540	150	133
135°	178	419	178	419	178	138
145°	207	340	207	340	207	130
155°	234	293	234	293	234	107
165°	252	273	252	273	252	71
175°	262	264	262	264	262	25
180°	262	262	262	262	262	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	910.6	910.6	915.8	917.5	917.5	914.9	912.4	914.9	922.6	925.2	924.3
5°	907.2	914.1	923.5	925.2	926.9	926.0	924.3	926.0	934.6	936.3	937.1
7.5°	900.3	913.2	925.2	927.8	930.3	927.8	926.9	928.6	937.1	938.9	938.9
10°	891.8	909.7	923.5	925.2	927.8	925.2	925.2	928.6	937.1	938.9	939.7
12.5°	879.8	904.6	917.5	919.2	922.6	921.8	920.9	924.3	932.9	934.6	934.6
15°	866.2	895.2	907.2	908.9	914.9	913.2	913.2	916.7	926.0	928.6	927.8
17.5°	847.4	883.3	896.9	899.5	903.8	902.9	903.8	907.2	915.8	917.5	918.4
20°	826.0	867.0	883.3	885.8	890.1	890.1	890.1	894.4	902.9	906.3	906.3
22.5°	797.0	849.9	867.0	868.7	873.9	873.9	875.6	881.5	889.2	890.1	890.1
25°	762.8	831.2	845.7	850.8	855.9	858.5	861.0	864.5	867.0	866.2	867.0
27.5°	726.9	807.2	826.0	829.4	836.3	838.8	842.3	843.1	844.0	846.5	844.8
30°	686.8	773.9	802.1	805.5	816.6	818.3	814.9	816.6	820.9	822.6	824.3
32.5°	641.5	724.4	777.3	785.0	795.3	790.2	789.3	791.9	798.7	798.7	800.4
35°	580.0	686.0	754.3	761.1	768.8	762.8	766.2	767.1	771.4	773.9	773.1
37.5°	512.6	652.6	730.4	735.5	741.5	733.8	738.9	741.5	744.9	743.2	743.2
40°	452.8	600.5	702.2	705.6	710.7	704.7	709.9	711.6	713.3	711.6	710.7
42.5°	408.4	543.3	672.3	676.6	673.1	677.4	679.1	682.5	680.0	676.6	676.6
45°	374.2	527.9	639.8	645.0	639.8	646.7	649.2	649.2	641.5	639.8	639.0
47.5°	363.1	497.2	607.4	607.4	604.8	613.3	617.6	611.6	604.0	601.4	601.4
50°	362.2	463.0	563.0	559.5	571.5	581.7	577.5	571.5	565.5	556.1	556.1
52.5°	328.9	421.2	505.7	518.5	537.3	543.3	536.5	530.5	520.2	516.0	512.6
55°	305.0	377.6	453.6	479.3	498.9	506.6	493.8	487.8	472.4	469.9	468.1
57.5°	299.8	314.4	405.8	438.3	462.2	461.3	453.6	442.5	429.7	427.1	426.3
60°	275.0	227.2	354.5	393.0	417.8	415.2	408.4	398.1	386.2	384.4	382.7
62.5°	249.4	164.8	296.4	340.0	375.0	374.2	368.2	352.8	344.3	340.0	336.6
65°	211.8	138.4	211.0	282.7	333.2	334.9	322.1	311.0	301.5	296.4	295.5
67.5°	161.4	112.7	142.6	235.7	293.0	291.3	275.0	269.9	257.9	255.4	250.3
70°	119.6	75.2	99.1	191.3	253.7	249.4	236.6	230.6	219.5	213.5	210.1
72.5°	99.1	60.6	72.6	148.6	213.5	208.4	197.3	190.5	181.1	176.0	172.5
75°	80.3	64.1	55.5	110.2	173.4	170.0	159.7	152.9	145.2	138.4	139.2
77.5°	58.9	59.8	44.4	81.1	137.5	132.4	126.4	117.9	114.5	107.6	107.6
80°	44.4	47.0	33.3	55.5	99.1	99.1	94.0	88.0	82.0	78.6	78.6
82.5°	29.9	29.9	24.8	35.0	67.5	64.9	61.5	59.8	56.4	54.7	54.7
85°	13.7	17.1	15.4	21.4	36.7	38.4	38.4	36.7	35.9	34.2	35.0
87.5°	4.3	7.7	9.4	12.0	18.8	19.6	20.5	20.5	20.5	21.4	21.4
90°	1.8	3.2	4.6	5.0	7.8	11.5	13.4	11.9	8.9	6.7	6.7
92.5°	7.0	19.0	31.0	34.0	47.7	66.1	75.3	66.0	47.4	33.5	32.1
95°	16.9	38.8	60.7	66.2	117.5	185.9	220.2	196.4	149.0	113.5	109.5
97.5°	29.2	48.5	67.8	72.7	158.3	272.5	329.5	314.6	284.6	262.1	254.4
100°	38.7	56.2	73.8	78.2	173.1	299.8	363.2	364.3	366.5	368.1	359.0
102.5°	46.8	63.2	79.5	83.6	180.0	308.4	372.7	391.8	430.0	458.6	450.7
105°	60.6	74.4	88.2	91.7	185.0	309.5	371.6	414.4	500.0	564.2	560.1
107.5°	74.7	87.5	100.4	103.7	185.9	295.7	350.5	410.2	529.6	619.2	620.2
110°	84.1	95.7	107.4	110.4	184.6	283.5	332.9	399.6	533.1	633.3	637.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	93.4	104.5	115.6	118.5	184.6	272.8	316.9	385.2	521.8	624.3	631.0
115°	107.5	117.8	128.0	130.6	186.3	260.5	297.7	363.4	495.1	593.8	603.1
117.5°	121.5	130.8	140.1	142.4	189.8	252.9	284.5	343.9	462.6	551.7	562.0
120°	129.6	138.4	147.1	149.3	192.6	250.3	279.2	333.5	442.0	523.4	533.5
122.5°	137.5	146.4	155.2	157.4	196.6	249.0	275.1	324.0	421.8	495.1	505.0
125°	149.6	157.7	165.7	167.8	202.1	247.9	270.8	312.3	395.3	457.6	466.7
127.5°	159.5	167.7	175.8	177.8	207.6	247.3	267.1	302.7	373.9	427.4	435.1
130°	164.8	173.6	182.3	184.5	211.6	247.6	265.6	297.4	360.9	408.4	415.5
132.5°	170.2	179.0	187.7	190.0	214.8	247.9	264.4	292.8	349.6	392.2	398.6
135°	178.3	186.3	194.3	196.3	218.3	247.6	262.3	286.0	333.6	369.3	374.8
137.5°	186.6	194.5	202.4	204.4	223.6	249.1	262.0	282.0	322.3	352.4	356.9
140°	193.5	200.7	208.1	209.9	226.8	249.4	260.7	278.1	312.9	338.9	343.1
142.5°	198.8	205.5	212.2	213.9	229.5	250.3	260.7	276.0	306.5	329.4	332.9
145°	206.9	212.7	218.6	220.0	233.0	250.3	259.0	271.4	296.4	315.1	317.8
147.5°	215.0	220.7	226.3	227.8	238.2	252.1	259.0	268.8	288.4	303.1	305.4
150°	220.2	225.3	230.5	231.8	240.9	252.9	259.0	267.3	283.8	296.3	298.2
152.5°	225.7	229.6	233.5	234.5	242.7	253.5	259.0	266.1	280.2	290.8	292.2
155°	233.8	236.7	239.6	240.3	246.5	254.8	259.0	264.6	275.9	284.3	285.3
157.5°	239.8	242.6	245.4	246.1	250.3	256.1	259.0	263.3	272.1	278.7	279.4
160°	243.9	246.0	248.2	248.7	252.1	256.7	259.0	262.7	270.2	275.9	276.2
162.5°	247.9	249.5	251.1	251.5	254.0	257.3	259.0	262.1	268.5	273.2	273.6
165°	252.3	253.8	255.3	255.6	256.8	258.2	259.0	261.2	265.7	269.1	269.5
167.5°	256.3	257.0	257.7	257.9	258.8	260.1	260.7	262.2	265.2	267.4	267.6
170°	259.0	259.7	260.3	260.5	260.6	260.7	260.7	262.2	265.2	267.4	267.4
172.5°	260.3	260.5	260.7	260.7	260.7	260.7	260.7	261.9	264.2	266.0	265.8
175°	262.3	262.3	262.3	262.3	261.8	261.0	260.7	261.4	263.0	264.1	264.1
177.5°	262.3	262.3	262.3	262.3	261.9	261.4	261.1	261.7	262.9	263.8	263.6
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	926.0	923.5	926.0	924.3	925.2	922.6	914.9	912.4	914.9	917.5	917.5
5°	937.1	935.4	937.1	937.1	936.3	934.6	926.0	924.3	926.0	926.9	925.2
7.5°	940.6	938.0	940.6	938.9	938.9	937.1	928.6	926.9	927.8	930.3	927.8
10°	940.6	938.0	940.6	939.7	938.9	937.1	928.6	925.2	925.2	927.8	925.2
12.5°	936.3	934.6	936.3	934.6	934.6	932.9	924.3	920.9	921.8	922.6	919.2
15°	929.5	926.9	929.5	927.8	928.6	926.0	916.7	913.2	913.2	914.9	908.9
17.5°	919.2	915.8	919.2	918.4	917.5	915.8	907.2	903.8	902.9	903.8	899.5
20°	907.2	904.6	907.2	906.3	906.3	902.9	894.4	890.1	890.1	890.1	885.8
22.5°	888.4	885.8	888.4	890.1	890.1	889.2	881.5	875.6	873.9	873.9	868.7
25°	867.0	864.5	867.0	867.0	866.2	867.0	864.5	861.0	858.5	855.9	850.8
27.5°	846.5	844.8	846.5	844.8	846.5	844.0	843.1	842.3	838.8	836.3	829.4
30°	826.0	824.3	826.0	824.3	822.6	820.9	816.6	814.9	818.3	816.6	805.5
32.5°	800.4	798.7	800.4	800.4	798.7	798.7	791.9	789.3	790.2	795.3	785.0
35°	773.9	771.4	773.9	773.1	773.9	771.4	767.1	766.2	762.8	768.8	761.1
37.5°	743.2	740.6	743.2	743.2	743.2	744.9	741.5	738.9	733.8	741.5	735.5
40°	711.6	708.2	711.6	710.7	711.6	713.3	711.6	709.9	704.7	710.7	705.6
42.5°	675.7	674.8	675.7	676.6	676.6	680.0	682.5	679.1	677.4	673.1	676.6
45°	637.3	635.6	637.3	639.0	639.8	641.5	649.2	649.2	646.7	639.8	645.0
47.5°	596.3	592.0	596.3	601.4	601.4	604.0	611.6	617.6	613.3	604.8	607.4
50°	552.7	553.6	552.7	556.1	556.1	565.5	571.5	577.5	581.7	571.5	559.5
52.5°	510.0	509.1	510.0	512.6	516.0	520.2	530.5	536.5	543.3	537.3	518.5
55°	467.3	469.0	467.3	468.1	469.9	472.4	487.8	493.8	506.6	498.9	479.3
57.5°	424.6	422.0	424.6	426.3	427.1	429.7	442.5	453.6	461.3	462.2	438.3
60°	375.0	371.6	375.0	382.7	384.4	386.2	398.1	408.4	415.2	417.8	393.0
62.5°	331.5	325.5	331.5	336.6	340.0	344.3	352.8	368.2	374.2	375.0	340.0
65°	285.3	282.7	285.3	295.5	296.4	301.5	311.0	322.1	334.9	333.2	282.7
67.5°	243.4	243.4	243.4	250.3	255.4	257.9	269.9	275.0	291.3	293.0	235.7
70°	205.0	204.1	205.0	210.1	213.5	219.5	230.6	236.6	249.4	253.7	191.3
72.5°	168.3	167.4	168.3	172.5	176.0	181.1	190.5	197.3	208.4	213.5	148.6
75°	135.8	134.1	135.8	139.2	138.4	145.2	152.9	159.7	170.0	173.4	110.2
77.5°	104.2	104.2	104.2	107.6	107.6	114.5	117.9	126.4	132.4	137.5	81.1
80°	77.7	76.9	77.7	78.6	78.6	82.0	88.0	94.0	99.1	99.1	55.5
82.5°	54.7	53.0	54.7	54.7	54.7	56.4	59.8	61.5	64.9	67.5	35.0
85°	34.2	34.2	34.2	35.0	34.2	35.9	36.7	38.4	38.4	36.7	21.4
87.5°	22.2	21.4	22.2	21.4	21.4	20.5	20.5	20.5	19.6	18.8	12.0
90°	6.7	6.7	6.7	6.7	6.7	8.9	11.9	13.4	11.5	7.8	5.0
92.5°	26.8	21.4	26.8	32.1	33.5	47.4	66.0	75.3	66.1	47.7	34.0
95°	93.4	77.3	93.4	109.5	113.5	149.0	196.4	220.2	185.9	117.5	66.2
97.5°	223.8	193.1	223.8	254.4	262.1	284.6	314.6	329.5	272.5	158.3	72.7
100°	322.4	285.9	322.4	359.0	368.1	366.5	364.3	363.2	299.8	173.1	78.2
102.5°	419.5	388.2	419.5	450.7	458.6	430.0	391.8	372.7	308.4	180.0	83.6
105°	543.2	526.4	543.2	560.1	564.2	500.0	414.4	371.6	309.5	185.0	91.7
107.5°	624.2	628.3	624.2	620.2	619.2	529.6	410.2	350.5	295.7	185.9	103.7
110°	655.1	672.6	655.1	637.6	633.3	533.1	399.6	332.9	283.5	184.6	110.4



TEST NUMBER: P934331

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	657.9	684.8	657.9	631.0	624.3	521.8	385.2	316.9	272.8	184.6	118.5
115°	640.4	677.8	640.4	603.1	593.8	495.1	363.4	297.7	260.5	186.3	130.6
117.5°	603.4	644.9	603.4	562.0	551.7	462.6	343.9	284.5	252.9	189.8	142.4
120°	573.6	613.9	573.6	533.5	523.4	442.0	333.5	279.2	250.3	192.6	149.3
122.5°	544.7	584.3	544.7	505.0	495.1	421.8	324.0	275.1	249.0	196.6	157.4
125°	503.2	539.7	503.2	466.7	457.6	395.3	312.3	270.8	247.9	202.1	167.8
127.5°	465.9	496.8	465.9	435.1	427.4	373.9	302.7	267.1	247.3	207.6	177.8
130°	444.1	472.5	444.1	415.5	408.4	360.9	297.4	265.6	247.6	211.6	184.5
132.5°	424.1	449.6	424.1	398.6	392.2	349.6	292.8	264.4	247.9	214.8	190.0
135°	396.8	418.8	396.8	374.8	369.3	333.6	286.0	262.3	247.6	218.3	196.3
137.5°	374.9	392.9	374.9	356.9	352.4	322.3	282.0	262.0	249.1	223.6	204.4
140°	359.9	376.8	359.9	343.1	338.9	312.9	278.1	260.7	249.4	226.8	209.9
142.5°	347.5	362.0	347.5	332.9	329.4	306.5	276.0	260.7	250.3	229.5	213.9
145°	328.8	339.8	328.8	317.8	315.1	296.4	271.4	259.0	250.3	233.0	220.0
147.5°	314.5	323.5	314.5	305.4	303.1	288.4	268.8	259.0	252.1	238.2	227.8
150°	305.5	312.9	305.5	298.2	296.3	283.8	267.3	259.0	252.9	240.9	231.8
152.5°	297.7	303.3	297.7	292.2	290.8	280.2	266.1	259.0	253.5	242.7	234.5
155°	289.0	292.6	289.0	285.3	284.3	275.9	264.6	259.0	254.8	246.5	240.3
157.5°	281.9	284.5	281.9	279.4	278.7	272.1	263.3	259.0	256.1	250.3	246.1
160°	277.8	279.2	277.8	276.2	275.9	270.2	262.7	259.0	256.7	252.1	248.7
162.5°	275.0	276.4	275.0	273.6	273.2	268.5	262.1	259.0	257.3	254.0	251.5
165°	271.0	272.6	271.0	269.5	269.1	265.7	261.2	259.0	258.2	256.8	255.6
167.5°	268.2	268.8	268.2	267.6	267.4	265.2	262.2	260.7	260.1	258.8	257.9
170°	267.4	267.4	267.4	267.4	267.4	265.2	262.2	260.7	260.7	260.6	260.5
172.5°	265.3	264.8	265.3	265.8	266.0	264.2	261.9	260.7	260.7	260.7	260.7
175°	264.1	264.1	264.1	264.1	264.1	263.0	261.4	260.7	261.0	261.8	262.3
177.5°	263.0	262.3	263.0	263.6	263.8	262.9	261.7	261.1	261.4	261.9	262.3
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



TEST NUMBER: P934331

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	915.8	910.6	910.6	902.0	898.6	896.1	891.8	879.0	875.6	872.2	877.3
5°	923.5	914.1	907.2	891.8	879.0	873.9	857.6	826.9	806.4	791.0	782.5
7.5°	925.2	913.2	900.3	876.4	845.7	832.0	782.5	726.1	710.7	697.1	688.5
10°	923.5	909.7	891.8	855.9	783.3	759.4	709.9	673.1	663.7	661.2	663.7
12.5°	917.5	904.6	879.8	820.0	718.4	702.2	673.1	651.8	650.1	654.3	677.4
15°	907.2	895.2	866.2	772.2	682.5	670.6	650.1	642.4	651.8	681.7	750.9
17.5°	896.9	883.3	847.4	725.2	655.2	646.7	632.1	647.5	700.5	740.6	763.7
20°	883.3	867.0	826.0	691.1	635.6	627.9	621.0	690.2	730.4	744.9	757.7
22.5°	867.0	849.9	797.0	667.2	615.1	609.1	613.3	714.1	730.4	740.6	751.7
25°	845.7	831.2	762.8	648.4	598.8	592.0	608.2	711.6	721.0	723.5	745.7
27.5°	826.0	807.2	726.9	631.3	579.2	576.6	612.5	700.5	707.3	709.9	733.8
30°	802.1	773.9	686.8	613.3	558.7	557.8	613.3	686.8	685.1	691.9	715.8
32.5°	777.3	724.4	641.5	591.1	539.0	538.2	607.4	666.3	664.6	674.0	691.9
35°	754.3	686.0	580.0	565.5	514.3	515.1	592.9	642.4	643.2	651.8	662.9
37.5°	730.4	652.6	512.6	537.3	490.4	490.4	573.2	620.2	618.5	621.0	636.4
40°	702.2	600.5	452.8	500.6	468.1	465.6	549.3	596.3	590.3	589.4	610.8
42.5°	672.3	543.3	408.4	451.9	442.5	439.1	520.2	567.2	556.1	558.7	586.0
45°	639.8	527.9	374.2	381.9	416.0	413.5	488.6	533.9	526.2	533.1	561.2
47.5°	607.4	497.2	363.1	317.0	387.9	387.0	453.6	501.5	497.2	504.0	533.9
50°	563.0	463.0	362.2	271.6	356.3	359.7	411.8	469.9	469.9	475.8	507.4
52.5°	505.7	421.2	328.9	246.0	319.5	329.8	375.0	442.5	444.2	450.2	478.4
55°	453.6	377.6	305.0	226.3	275.9	298.1	339.2	414.3	417.8	423.7	449.4
57.5°	405.8	314.4	299.8	203.3	235.7	257.1	307.6	387.0	388.7	393.8	418.6
60°	354.5	227.2	275.0	178.5	200.7	216.9	278.4	354.5	360.5	363.9	385.3
62.5°	296.4	164.8	249.4	161.4	183.6	187.1	254.5	323.8	331.5	334.0	346.9
65°	211.0	138.4	211.8	146.9	165.7	166.6	228.9	292.1	298.9	303.2	312.7
67.5°	142.6	112.7	161.4	133.2	152.0	152.9	204.1	255.4	264.8	268.2	274.2
70°	99.1	75.2	119.6	118.7	136.7	138.4	177.7	222.1	230.6	233.2	236.6
72.5°	72.6	60.6	99.1	106.8	120.4	122.1	150.3	184.5	193.0	195.6	197.3
75°	55.5	64.1	80.3	93.1	102.5	103.3	123.0	150.3	156.3	158.0	158.9
77.5°	44.4	59.8	58.9	75.2	83.7	82.0	96.5	116.2	121.3	121.3	121.3
80°	33.3	47.0	44.4	53.8	61.5	59.8	69.2	82.9	84.6	86.3	85.4
82.5°	24.8	29.9	29.9	34.2	41.0	39.3	46.1	53.8	53.8	53.8	55.5
85°	15.4	17.1	13.7	17.9	23.1	22.2	25.6	29.0	29.9	29.9	28.2
87.5°	9.4	7.7	4.3	6.8	10.2	10.2	12.0	12.8	12.0	12.0	12.0
90°	4.6	3.2	1.8	3.2	4.6	5.0	7.8	11.5	13.4	11.9	8.9
92.5°	31.0	19.0	7.0	19.0	31.0	34.0	47.7	66.1	75.3	66.0	47.4
95°	60.7	38.8	16.9	38.8	60.7	66.2	117.5	185.9	220.2	196.4	149.0
97.5°	67.8	48.5	29.2	48.5	67.8	72.7	158.3	272.5	329.5	314.6	284.6
100°	73.8	56.2	38.7	56.2	73.8	78.2	173.1	299.8	363.2	364.3	366.5
102.5°	79.5	63.2	46.8	63.2	79.5	83.6	180.0	308.4	372.7	391.8	430.0
105°	88.2	74.4	60.6	74.4	88.2	91.7	185.0	309.5	371.6	414.4	500.0
107.5°	100.4	87.5	74.7	87.5	100.4	103.7	185.9	295.7	350.5	410.2	529.6
110°	107.4	95.7	84.1	95.7	107.4	110.4	184.6	283.5	332.9	399.6	533.1



TEST NUMBER: P934331

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	115.6	104.5	93.4	104.5	115.6	118.5	184.6	272.8	316.9	385.2	521.8
115°	128.0	117.8	107.5	117.8	128.0	130.6	186.3	260.5	297.7	363.4	495.1
117.5°	140.1	130.8	121.5	130.8	140.1	142.4	189.8	252.9	284.5	343.9	462.6
120°	147.1	138.4	129.6	138.4	147.1	149.3	192.6	250.3	279.2	333.5	442.0
122.5°	155.2	146.4	137.5	146.4	155.2	157.4	196.6	249.0	275.1	324.0	421.8
125°	165.7	157.7	149.6	157.7	165.7	167.8	202.1	247.9	270.8	312.3	395.3
127.5°	175.8	167.7	159.5	167.7	175.8	177.8	207.6	247.3	267.1	302.7	373.9
130°	182.3	173.6	164.8	173.6	182.3	184.5	211.6	247.6	265.6	297.4	360.9
132.5°	187.7	179.0	170.2	179.0	187.7	190.0	214.8	247.9	264.4	292.8	349.6
135°	194.3	186.3	178.3	186.3	194.3	196.3	218.3	247.6	262.3	286.0	333.6
137.5°	202.4	194.5	186.6	194.5	202.4	204.4	223.6	249.1	262.0	282.0	322.3
140°	208.1	200.7	193.5	200.7	208.1	209.9	226.8	249.4	260.7	278.1	312.9
142.5°	212.2	205.5	198.8	205.5	212.2	213.9	229.5	250.3	260.7	276.0	306.5
145°	218.6	212.7	206.9	212.7	218.6	220.0	233.0	250.3	259.0	271.4	296.4
147.5°	226.3	220.7	215.0	220.7	226.3	227.8	238.2	252.1	259.0	268.8	288.4
150°	230.5	225.3	220.2	225.3	230.5	231.8	240.9	252.9	259.0	267.3	283.8
152.5°	233.5	229.6	225.7	229.6	233.5	234.5	242.7	253.5	259.0	266.1	280.2
155°	239.6	236.7	233.8	236.7	239.6	240.3	246.5	254.8	259.0	264.6	275.9
157.5°	245.4	242.6	239.8	242.6	245.4	246.1	250.3	256.1	259.0	263.3	272.1
160°	248.2	246.0	243.9	246.0	248.2	248.7	252.1	256.7	259.0	262.7	270.2
162.5°	251.1	249.5	247.9	249.5	251.1	251.5	254.0	257.3	259.0	262.1	268.5
165°	255.3	253.8	252.3	253.8	255.3	255.6	256.8	258.2	259.0	261.2	265.7
167.5°	257.7	257.0	256.3	257.0	257.7	257.9	258.8	260.1	260.7	262.2	265.2
170°	260.3	259.7	259.0	259.7	260.3	260.5	260.6	260.7	260.7	262.2	265.2
172.5°	260.7	260.5	260.3	260.5	260.7	260.7	260.7	260.7	260.7	261.9	264.2
175°	262.3	262.3	262.3	262.3	262.3	262.3	261.8	261.0	260.7	261.4	263.0
177.5°	262.3	262.3	262.3	262.3	262.3	262.3	261.9	261.4	261.1	261.7	262.9
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



TEST NUMBER: P934331

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	871.3	868.7	872.2	862.8	872.2	868.7	871.3	877.3	872.2	875.6	879.0
5°	764.5	760.3	746.6	735.5	746.6	760.3	764.5	782.5	791.0	806.4	826.9
7.5°	683.4	680.0	676.6	669.7	676.6	680.0	683.4	688.5	697.1	710.7	726.1
10°	665.5	666.3	671.4	670.6	671.4	666.3	665.5	663.7	661.2	663.7	673.1
12.5°	711.6	719.3	747.4	745.7	747.4	719.3	711.6	677.4	654.3	650.1	651.8
15°	764.5	767.1	773.1	773.9	773.1	767.1	764.5	750.9	681.7	651.8	642.4
17.5°	769.7	770.5	774.8	774.8	774.8	770.5	769.7	763.7	740.6	700.5	647.5
20°	765.4	767.1	775.6	777.3	775.6	767.1	765.4	757.7	744.9	730.4	690.2
22.5°	763.7	767.1	773.9	773.1	773.9	767.1	763.7	751.7	740.6	730.4	714.1
25°	755.1	755.1	756.0	756.8	756.0	755.1	755.1	745.7	723.5	721.0	711.6
27.5°	737.2	738.9	744.0	743.2	744.0	738.9	737.2	733.8	709.9	707.3	700.5
30°	721.0	719.3	715.0	711.6	715.0	719.3	721.0	715.8	691.9	685.1	686.8
32.5°	693.6	689.4	685.1	682.5	685.1	689.4	693.6	691.9	674.0	664.6	666.3
35°	661.2	662.0	661.2	658.6	661.2	662.0	661.2	662.9	651.8	643.2	642.4
37.5°	638.1	639.8	639.0	635.6	639.0	639.8	638.1	636.4	621.0	618.5	620.2
40°	614.2	615.1	614.2	611.6	614.2	615.1	614.2	610.8	589.4	590.3	596.3
42.5°	591.1	590.3	587.7	586.0	587.7	590.3	591.1	586.0	558.7	556.1	567.2
45°	564.7	565.5	560.4	557.8	560.4	565.5	564.7	561.2	533.1	526.2	533.9
47.5°	538.2	538.2	533.9	531.4	533.9	538.2	538.2	533.9	504.0	497.2	501.5
50°	510.0	509.1	503.2	502.3	503.2	509.1	510.0	507.4	475.8	469.9	469.9
52.5°	477.5	477.5	478.4	480.1	478.4	477.5	477.5	478.4	450.2	444.2	442.5
55°	449.4	450.2	456.2	457.9	456.2	450.2	449.4	449.4	423.7	417.8	414.3
57.5°	420.3	420.3	424.6	424.6	424.6	420.3	420.3	418.6	393.8	388.7	387.0
60°	387.0	388.7	392.1	391.3	392.1	388.7	387.0	385.3	363.9	360.5	354.5
62.5°	352.0	353.7	354.5	352.8	354.5	353.7	352.0	346.9	334.0	331.5	323.8
65°	315.3	317.0	317.8	316.1	317.8	317.0	315.3	312.7	303.2	298.9	292.1
67.5°	277.6	276.7	275.9	279.3	275.9	276.7	277.6	274.2	268.2	264.8	255.4
70°	239.2	239.2	238.3	240.0	238.3	239.2	239.2	236.6	233.2	230.6	222.1
72.5°	198.2	197.3	200.7	198.2	200.7	197.3	198.2	197.3	195.6	193.0	184.5
75°	158.0	159.7	158.0	160.6	158.0	159.7	158.0	158.9	158.0	156.3	150.3
77.5°	120.4	122.1	120.4	120.4	120.4	122.1	120.4	121.3	121.3	121.3	116.2
80°	85.4	84.6	84.6	83.7	84.6	84.6	85.4	85.4	86.3	84.6	82.9
82.5°	54.7	53.8	53.8	55.5	53.8	53.8	54.7	55.5	53.8	53.8	53.8
85°	29.9	30.7	29.0	29.0	29.0	30.7	29.9	28.2	29.9	29.9	29.0
87.5°	11.1	10.2	10.2	10.2	10.2	10.2	11.1	12.0	12.0	12.0	12.8
90°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.9	11.9	13.4	11.5
92.5°	33.5	32.1	26.8	21.4	26.8	32.1	33.5	47.4	66.0	75.3	66.1
95°	113.5	109.5	93.4	77.3	93.4	109.5	113.5	149.0	196.4	220.2	185.9
97.5°	262.1	254.4	223.8	193.1	223.8	254.4	262.1	284.6	314.6	329.5	272.5
100°	368.1	359.0	322.4	285.9	322.4	359.0	368.1	366.5	364.3	363.2	299.8
102.5°	458.6	450.7	419.5	388.2	419.5	450.7	458.6	430.0	391.8	372.7	308.4
105°	564.2	560.1	543.2	526.4	543.2	560.1	564.2	500.0	414.4	371.6	309.5
107.5°	619.2	620.2	624.2	628.3	624.2	620.2	619.2	529.6	410.2	350.5	295.7
110°	633.3	637.6	655.1	672.6	655.1	637.6	633.3	533.1	399.6	332.9	283.5



TEST NUMBER: P934331

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	624.3	631.0	657.9	684.8	657.9	631.0	624.3	521.8	385.2	316.9	272.8
115°	593.8	603.1	640.4	677.8	640.4	603.1	593.8	495.1	363.4	297.7	260.5
117.5°	551.7	562.0	603.4	644.9	603.4	562.0	551.7	462.6	343.9	284.5	252.9
120°	523.4	533.5	573.6	613.9	573.6	533.5	523.4	442.0	333.5	279.2	250.3
122.5°	495.1	505.0	544.7	584.3	544.7	505.0	495.1	421.8	324.0	275.1	249.0
125°	457.6	466.7	503.2	539.7	503.2	466.7	457.6	395.3	312.3	270.8	247.9
127.5°	427.4	435.1	465.9	496.8	465.9	435.1	427.4	373.9	302.7	267.1	247.3
130°	408.4	415.5	444.1	472.5	444.1	415.5	408.4	360.9	297.4	265.6	247.6
132.5°	392.2	398.6	424.1	449.6	424.1	398.6	392.2	349.6	292.8	264.4	247.9
135°	369.3	374.8	396.8	418.8	396.8	374.8	369.3	333.6	286.0	262.3	247.6
137.5°	352.4	356.9	374.9	392.9	374.9	356.9	352.4	322.3	282.0	262.0	249.1
140°	338.9	343.1	359.9	376.8	359.9	343.1	338.9	312.9	278.1	260.7	249.4
142.5°	329.4	332.9	347.5	362.0	347.5	332.9	329.4	306.5	276.0	260.7	250.3
145°	315.1	317.8	328.8	339.8	328.8	317.8	315.1	296.4	271.4	259.0	250.3
147.5°	303.1	305.4	314.5	323.5	314.5	305.4	303.1	288.4	268.8	259.0	252.1
150°	296.3	298.2	305.5	312.9	305.5	298.2	296.3	283.8	267.3	259.0	252.9
152.5°	290.8	292.2	297.7	303.3	297.7	292.2	290.8	280.2	266.1	259.0	253.5
155°	284.3	285.3	289.0	292.6	289.0	285.3	284.3	275.9	264.6	259.0	254.8
157.5°	278.7	279.4	281.9	284.5	281.9	279.4	278.7	272.1	263.3	259.0	256.1
160°	275.9	276.2	277.8	279.2	277.8	276.2	275.9	270.2	262.7	259.0	256.7
162.5°	273.2	273.6	275.0	276.4	275.0	273.6	273.2	268.5	262.1	259.0	257.3
165°	269.1	269.5	271.0	272.6	271.0	269.5	269.1	265.7	261.2	259.0	258.2
167.5°	267.4	267.6	268.2	268.8	268.2	267.6	267.4	265.2	262.2	260.7	260.1
170°	267.4	267.4	267.4	267.4	267.4	267.4	267.4	265.2	262.2	260.7	260.7
172.5°	266.0	265.8	265.3	264.8	265.3	265.8	266.0	264.2	261.9	260.7	260.7
175°	264.1	264.1	264.1	264.1	264.1	264.1	264.1	263.0	261.4	260.7	261.0
177.5°	263.8	263.6	263.0	262.3	263.0	263.6	263.8	262.9	261.7	261.1	261.4
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



TEST NUMBER: P934331

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	902.9	902.9	902.9	902.9	902.9
2.5°	891.8	896.1	898.6	902.0	910.6
5°	857.6	873.9	879.0	891.8	907.2
7.5°	782.5	832.0	845.7	876.4	900.3
10°	709.9	759.4	783.3	855.9	891.8
12.5°	673.1	702.2	718.4	820.0	879.8
15°	650.1	670.6	682.5	772.2	866.2
17.5°	632.1	646.7	655.2	725.2	847.4
20°	621.0	627.9	635.6	691.1	826.0
22.5°	613.3	609.1	615.1	667.2	797.0
25°	608.2	592.0	598.8	648.4	762.8
27.5°	612.5	576.6	579.2	631.3	726.9
30°	613.3	557.8	558.7	613.3	686.8
32.5°	607.4	538.2	539.0	591.1	641.5
35°	592.9	515.1	514.3	565.5	580.0
37.5°	573.2	490.4	490.4	537.3	512.6
40°	549.3	465.6	468.1	500.6	452.8
42.5°	520.2	439.1	442.5	451.9	408.4
45°	488.6	413.5	416.0	381.9	374.2
47.5°	453.6	387.0	387.9	317.0	363.1
50°	411.8	359.7	356.3	271.6	362.2
52.5°	375.0	329.8	319.5	246.0	328.9
55°	339.2	298.1	275.9	226.3	305.0
57.5°	307.6	257.1	235.7	203.3	299.8
60°	278.4	216.9	200.7	178.5	275.0
62.5°	254.5	187.1	183.6	161.4	249.4
65°	228.9	166.6	165.7	146.9	211.8
67.5°	204.1	152.9	152.0	133.2	161.4
70°	177.7	138.4	136.7	118.7	119.6
72.5°	150.3	122.1	120.4	106.8	99.1
75°	123.0	103.3	102.5	93.1	80.3
77.5°	96.5	82.0	83.7	75.2	58.9
80°	69.2	59.8	61.5	53.8	44.4
82.5°	46.1	39.3	41.0	34.2	29.9
85°	25.6	22.2	23.1	17.9	13.7
87.5°	12.0	10.2	10.2	6.8	4.3
90°	7.8	5.0	4.6	3.2	1.8
92.5°	47.7	34.0	31.0	19.0	7.0
95°	117.5	66.2	60.7	38.8	16.9
97.5°	158.3	72.7	67.8	48.5	29.2
100°	173.1	78.2	73.8	56.2	38.7
102.5°	180.0	83.6	79.5	63.2	46.8
105°	185.0	91.7	88.2	74.4	60.6
107.5°	185.9	103.7	100.4	87.5	74.7
110°	184.6	110.4	107.4	95.7	84.1



TEST NUMBER: P934331

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	184.6	118.5	115.6	104.5	93.4
115°	186.3	130.6	128.0	117.8	107.5
117.5°	189.8	142.4	140.1	130.8	121.5
120°	192.6	149.3	147.1	138.4	129.6
122.5°	196.6	157.4	155.2	146.4	137.5
125°	202.1	167.8	165.7	157.7	149.6
127.5°	207.6	177.8	175.8	167.7	159.5
130°	211.6	184.5	182.3	173.6	164.8
132.5°	214.8	190.0	187.7	179.0	170.2
135°	218.3	196.3	194.3	186.3	178.3
137.5°	223.6	204.4	202.4	194.5	186.6
140°	226.8	209.9	208.1	200.7	193.5
142.5°	229.5	213.9	212.2	205.5	198.8
145°	233.0	220.0	218.6	212.7	206.9
147.5°	238.2	227.8	226.3	220.7	215.0
150°	240.9	231.8	230.5	225.3	220.2
152.5°	242.7	234.5	233.5	229.6	225.7
155°	246.5	240.3	239.6	236.7	233.8
157.5°	250.3	246.1	245.4	242.6	239.8
160°	252.1	248.7	248.2	246.0	243.9
162.5°	254.0	251.5	251.1	249.5	247.9
165°	256.8	255.6	255.3	253.8	252.3
167.5°	258.8	257.9	257.7	257.0	256.3
170°	260.6	260.5	260.3	259.7	259.0
172.5°	260.7	260.7	260.7	260.5	260.3
175°	261.8	262.3	262.3	262.3	262.3
177.5°	261.9	262.3	262.3	262.3	262.3
180°	262.3	262.3	262.3	262.3	262.3



TEST NUMBER: P934331
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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	12.88	13.82	13.77	14.72	15.88	15.68	16.62	16.56	17.52	18.68
	3H	13.36	14.20	14.26	15.12	16.30	17.02	17.86	17.92	18.78	19.95
	4H	13.56	14.35	14.47	15.27	16.46	17.46	18.26	18.37	19.18	20.36
	6H	13.68	14.41	14.61	15.34	16.54	17.74	18.47	18.67	19.40	20.60
	8H	13.69	14.38	14.62	15.33	16.53	17.81	18.51	18.75	19.46	20.66
	12H	13.66	14.32	14.60	15.26	16.49	17.85	18.52	18.79	19.45	20.68
4H	2H	13.92	14.71	14.83	15.63	16.82	16.10	16.89	17.02	17.82	19.00
	3H	14.95	15.61	15.88	16.56	17.77	17.60	18.26	18.53	19.22	20.42
	4H	15.23	15.83	16.17	16.78	18.01	18.13	18.73	19.07	19.68	20.91
	6H	15.36	15.88	16.31	16.85	18.08	18.49	19.01	19.44	19.98	21.21
	8H	15.37	15.85	16.32	16.82	18.06	18.59	19.08	19.55	20.04	21.28
	12H	15.34	15.78	16.31	16.76	18.00	18.65	19.09	19.62	20.07	21.32
8H	4H	15.68	16.17	16.64	17.13	18.38	18.26	18.74	19.21	19.71	20.95
	6H	15.95	16.35	16.93	17.36	18.60	18.69	19.09	19.67	20.10	21.34
	8H	15.99	16.35	16.98	17.34	18.60	18.84	19.19	19.83	20.19	21.45
	12H	15.98	16.29	16.97	17.28	18.59	18.93	19.25	19.93	20.24	21.54
12H	4H	15.69	16.13	16.67	17.11	18.36	18.23	18.66	19.20	19.65	20.89
	6H	16.01	16.36	17.00	17.36	18.62	18.69	19.04	19.68	20.04	21.30
	8H	16.08	16.39	17.07	17.38	18.68	18.85	19.16	19.84	20.15	21.45