

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: P934261

Luminaire Tested: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

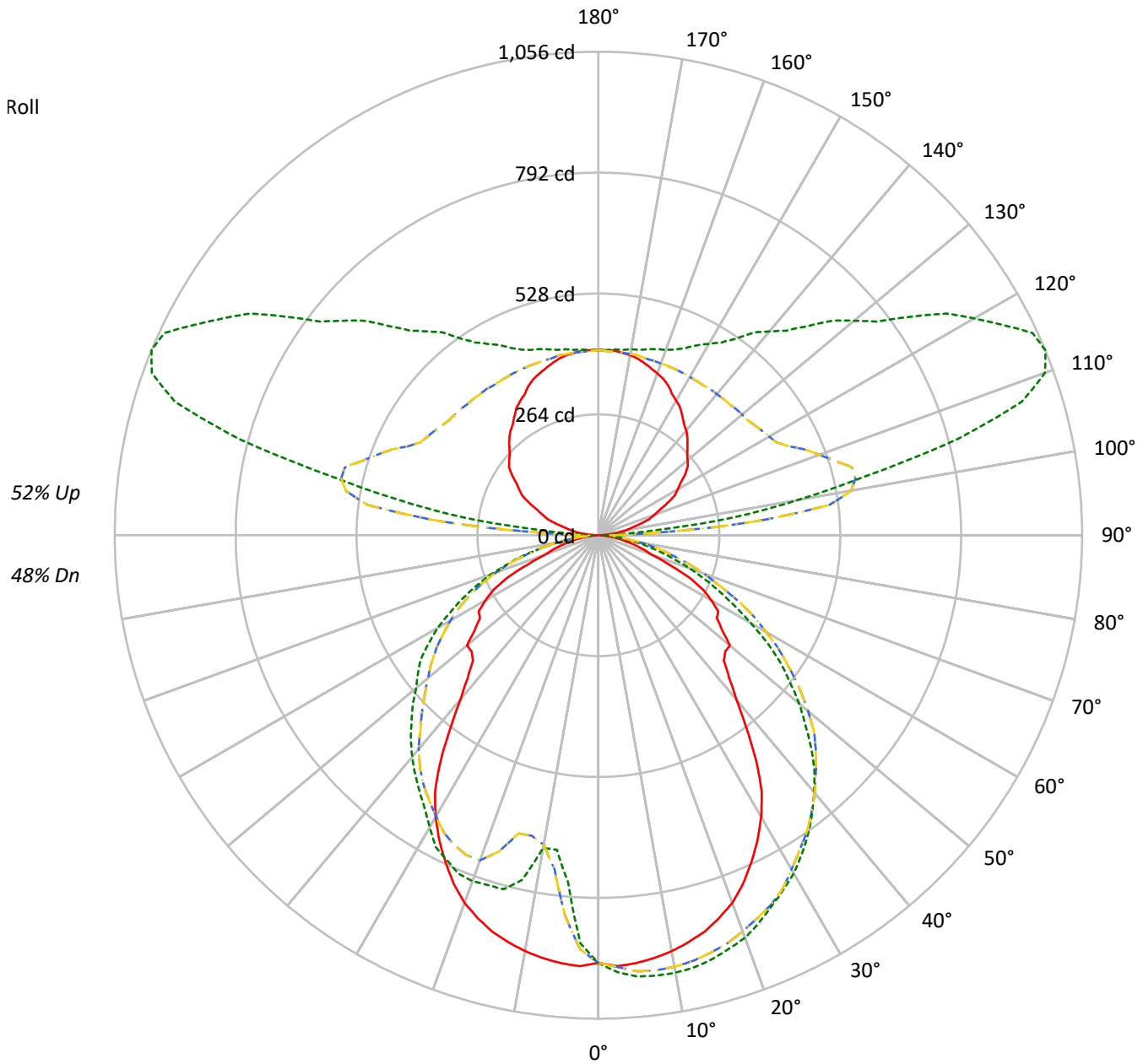
Test Method: LM-79-2019  
Report Number: P934261  
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5045.8 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 42.6  
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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5777	5777	5777	5777
5°	5818	5831	5818	4585
10°	5777	5745	5777	4107
15°	5713	5621	5713	4693
20°	5591	5473	5591	4703
25°	5344	5258	5344	4603
30°	5026	5080	5026	4384
35°	4479	4853	4479	4144
40°	3730	4588	3730	3962
45°	3330	4276	3330	3754
50°	3535	3906	3535	3543
55°	3323	3506	3323	3422
60°	3421	2977	3421	3134
65°	3096	2461	3096	2751
70°	2139	1961	2139	2306
75°	1870	1450	1870	1736
80°	1494	958	1494	1044
85°	841	507	841	431

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5107 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	1.7
10°-20°	239.4	4.7
20°-30°	370.0	7.3
30°-40°	441.7	8.8
40°-50°	444.3	8.8
50°-60°	386.6	7.7
60°-70°	274.1	5.4
70°-80°	145.0	2.9
80°-90°	37.7	0.7
90°-100°	197.2	3.9
100°-110°	518.5	10.3
110°-120°	537.6	10.7
120°-130°	431.2	8.5
130°-140°	338.4	6.7
140°-150°	259.7	5.1
150°-160°	187.0	3.7
160°-170°	114.4	2.3
170°-180°	38.7	0.8
0°-30°	693.7	13.7
0°-40°	1135.4	22.5
0°-60°	1966.2	39.0
0°-90°	2423.0	48.0
90°-120°	1253.4	24.8
90°-150°	2282.7	45.2
90°-180°	2623.0	52.0
0°-180°	5045.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	934	934	934	934	934	
5°	938	967	938	761	938	89
15°	896	959	896	800	896	252
25°	789	894	789	783	789	362
35°	600	798	600	681	600	371
45°	387	657	387	577	387	310
55°	315	485	315	474	315	290
65°	219	292	219	327	219	209
75°	83	139	83	166	83	87
85°	14	35	14	30	14	19
90°	3	10	3	10	3	3
95°	26	119	26	119	26	29
105°	94	812	94	812	94	99
115°	166	1045	166	1045	166	164
125°	231	832	231	832	231	205
135°	275	646	275	646	275	213
145°	319	524	319	524	319	200
155°	361	451	361	451	361	166
165°	389	420	389	420	389	110
175°	405	407	405	407	405	38
180°	405	405	405	405	405	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	941.9	941.9	947.2	948.9	948.9	946.3	943.6	946.3	954.3	956.9	956.0
5°	938.3	945.4	955.2	956.9	958.7	957.8	956.0	957.8	966.6	968.4	969.3
7.5°	931.3	944.5	956.9	959.5	962.2	959.5	958.7	960.4	969.3	971.0	971.0
10°	922.4	941.0	955.2	956.9	959.5	956.9	956.9	960.4	969.3	971.0	971.9
12.5°	910.1	935.7	948.9	950.7	954.3	953.4	952.4	956.0	964.8	966.6	966.6
15°	896.0	926.0	938.3	940.1	946.3	944.5	944.5	948.0	957.8	960.4	959.5
17.5°	876.5	913.6	927.7	930.4	934.8	933.9	934.8	938.3	947.2	948.9	949.8
20°	854.4	896.8	913.6	916.2	920.6	920.6	920.6	925.1	933.9	937.4	937.4
22.5°	824.4	879.1	896.8	898.6	903.9	903.9	905.6	911.9	919.8	920.6	920.6
25°	789.0	859.7	874.7	880.1	885.3	888.0	890.6	894.2	896.8	896.0	896.8
27.5°	751.9	834.9	854.4	857.9	865.0	867.7	871.2	872.1	872.9	875.6	873.8
30°	710.4	800.5	829.6	833.2	844.7	846.4	842.9	844.7	849.1	850.9	852.7
32.5°	663.6	749.3	804.0	812.0	822.6	817.3	816.4	819.0	826.1	826.1	827.9
35°	600.0	709.5	780.2	787.2	795.2	789.0	792.6	793.5	797.8	800.5	799.6
37.5°	530.1	675.1	755.4	760.7	766.9	758.9	764.3	766.9	770.4	768.7	768.7
40°	468.3	621.1	726.3	729.8	735.1	728.9	734.3	736.0	737.8	736.0	735.1
42.5°	422.4	561.9	695.4	699.7	696.2	700.6	702.5	706.0	703.3	699.7	699.7
45°	387.0	546.0	661.8	667.1	661.8	668.8	671.5	671.5	663.6	661.8	660.9
47.5°	375.5	514.2	628.2	628.2	625.5	634.4	638.8	632.6	624.6	622.0	622.0
50°	374.6	478.8	582.2	578.7	591.1	601.7	597.2	591.1	584.9	575.2	575.2
52.5°	340.2	435.5	523.0	536.3	555.8	561.9	554.9	548.7	538.0	533.7	530.1
55°	315.4	390.5	469.2	495.7	516.0	523.9	510.7	504.5	488.6	486.0	484.2
57.5°	310.1	325.1	419.7	453.3	478.0	477.1	469.2	457.7	444.4	441.8	440.9
60°	284.5	235.0	366.7	406.5	432.0	429.4	422.4	411.7	399.4	397.6	395.9
62.5°	258.0	170.6	306.6	351.7	387.9	387.0	380.8	364.9	356.1	351.7	348.2
65°	219.1	143.2	218.3	292.5	344.6	346.3	333.1	321.6	311.9	306.6	305.7
67.5°	167.0	116.6	147.6	243.9	303.1	301.3	284.5	279.2	266.8	264.2	258.9
70°	123.7	77.7	102.5	197.9	262.4	258.0	244.8	238.5	227.0	220.9	217.4
72.5°	102.5	62.7	75.1	153.7	220.9	215.6	204.1	197.0	187.3	182.0	178.5
75°	83.1	66.2	57.4	114.0	179.3	175.8	165.2	158.2	150.2	143.2	144.0
77.5°	61.0	61.8	45.9	84.0	142.3	136.9	130.8	121.9	118.4	111.4	111.4
80°	45.9	48.6	34.4	57.4	102.5	102.5	97.2	91.0	84.8	81.3	81.3
82.5°	30.9	30.9	25.6	36.2	69.8	67.2	63.6	61.8	58.3	56.6	56.6
85°	14.1	17.7	15.9	22.0	38.0	39.8	39.8	38.0	37.2	35.3	36.2
87.5°	4.4	8.0	9.7	12.4	19.4	20.3	21.2	21.2	21.2	22.0	22.0
90°	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.4	13.7	10.3	10.3
92.5°	10.9	29.3	47.8	52.4	73.7	102.1	116.2	101.8	73.1	51.6	49.5
95°	26.1	59.8	93.6	102.1	181.3	286.9	339.7	303.2	230.0	175.1	168.9
97.5°	45.1	74.9	104.7	112.2	244.3	420.4	508.4	485.3	439.0	404.3	392.4
100°	59.7	86.8	113.8	120.6	267.1	462.5	560.2	561.8	565.3	567.8	553.8
102.5°	72.2	97.5	122.7	129.0	277.6	475.8	574.8	604.3	663.2	707.4	695.4
105°	93.5	114.8	136.1	141.5	285.4	477.3	573.2	639.2	771.2	870.3	863.8
107.5°	115.1	135.1	154.9	159.9	286.9	456.0	540.6	632.6	816.8	955.0	956.6
110°	129.8	147.7	165.7	170.2	284.7	437.2	513.5	616.4	822.4	976.8	983.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	144.2	161.3	178.5	182.8	284.7	420.8	488.8	594.2	804.9	962.9	973.2
115°	165.9	181.7	197.5	201.5	287.4	401.9	459.2	560.7	763.7	915.9	930.3
117.5°	187.3	201.7	216.1	219.7	292.7	390.1	438.8	530.4	713.6	851.0	867.0
120°	199.8	213.3	226.9	230.3	297.0	386.1	430.6	514.3	681.7	807.2	822.8
122.5°	212.1	225.7	239.3	242.8	303.3	384.0	424.4	499.8	650.6	763.6	778.9
125°	230.8	243.2	255.7	258.7	311.7	382.3	417.6	481.7	609.7	705.7	719.8
127.5°	246.0	258.6	271.1	274.3	320.1	381.4	411.9	466.9	576.8	659.3	671.1
130°	254.2	267.7	281.2	284.6	326.3	381.9	409.7	458.6	556.6	630.0	641.0
132.5°	262.6	276.1	289.7	293.0	331.3	382.3	407.9	451.7	539.3	605.0	614.8
135°	275.1	287.4	299.7	302.8	336.7	382.0	404.6	441.3	514.7	569.7	578.2
137.5°	287.8	300.0	312.1	315.2	344.8	384.3	404.0	435.0	497.0	543.6	550.5
140°	298.4	309.7	320.8	323.7	349.8	384.7	402.2	429.0	482.5	522.7	529.2
142.5°	306.5	316.9	327.3	329.9	354.0	386.1	402.2	425.7	472.7	508.0	513.6
145°	319.1	328.1	337.2	339.5	359.5	386.1	399.5	418.7	457.2	486.1	490.3
147.5°	331.6	340.3	349.2	351.4	367.4	388.7	399.5	414.6	444.9	467.6	471.1
150°	339.7	347.7	355.6	357.6	371.6	390.1	399.5	412.3	437.8	457.0	459.8
152.5°	348.1	354.1	360.2	361.7	374.2	391.0	399.5	410.3	432.2	448.5	450.7
155°	360.6	365.1	369.5	370.6	380.2	393.0	399.5	408.1	425.5	438.5	439.9
157.5°	369.9	374.2	378.5	379.6	386.2	395.1	399.5	406.2	419.7	429.8	430.8
160°	376.1	379.4	382.8	383.6	388.9	395.9	399.5	405.2	416.8	425.5	426.1
162.5°	382.3	384.9	387.4	388.0	391.8	396.9	399.5	404.4	414.1	421.4	421.9
165°	389.1	391.4	393.7	394.3	396.0	398.3	399.5	403.0	409.9	415.2	415.8
167.5°	395.3	396.4	397.5	397.8	399.3	401.2	402.2	404.5	409.0	412.5	412.7
170°	399.5	400.5	401.6	401.9	402.0	402.1	402.2	404.5	409.0	412.5	412.5
172.5°	401.6	401.9	402.1	402.2	402.2	402.2	402.2	403.9	407.5	410.3	410.1
175°	404.6	404.6	404.6	404.6	403.8	402.7	402.2	403.3	405.6	407.3	407.3
177.5°	404.6	404.6	404.6	404.6	404.0	403.1	402.7	403.6	405.4	406.7	406.5
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	957.8	955.2	957.8	956.0	956.9	954.3	946.3	943.6	946.3	948.9	948.9
5°	969.3	967.4	969.3	969.3	968.4	966.6	957.8	956.0	957.8	958.7	956.9
7.5°	972.8	970.2	972.8	971.0	971.0	969.3	960.4	958.7	959.5	962.2	959.5
10°	972.8	970.2	972.8	971.9	971.0	969.3	960.4	956.9	956.9	959.5	956.9
12.5°	968.4	966.6	968.4	966.6	966.6	964.8	956.0	952.4	953.4	954.3	950.7
15°	961.3	958.7	961.3	959.5	960.4	957.8	948.0	944.5	944.5	946.3	940.1
17.5°	950.7	947.2	950.7	949.8	948.9	947.2	938.3	934.8	933.9	934.8	930.4
20°	938.3	935.7	938.3	937.4	937.4	933.9	925.1	920.6	920.6	920.6	916.2
22.5°	918.9	916.2	918.9	920.6	920.6	919.8	911.9	905.6	903.9	903.9	898.6
25°	896.8	894.2	896.8	896.8	896.0	896.8	894.2	890.6	888.0	885.3	880.1
27.5°	875.6	873.8	875.6	873.8	875.6	872.9	872.1	871.2	867.7	865.0	857.9
30°	854.4	852.7	854.4	852.7	850.9	849.1	844.7	842.9	846.4	844.7	833.2
32.5°	827.9	826.1	827.9	827.9	826.1	826.1	819.0	816.4	817.3	822.6	812.0
35°	800.5	797.8	800.5	799.6	800.5	797.8	793.5	792.6	789.0	795.2	787.2
37.5°	768.7	766.1	768.7	768.7	768.7	770.4	766.9	764.3	758.9	766.9	760.7
40°	736.0	732.5	736.0	735.1	736.0	737.8	736.0	734.3	728.9	735.1	729.8
42.5°	698.9	698.0	698.9	699.7	699.7	703.3	706.0	702.5	700.6	696.2	699.7
45°	659.2	657.3	659.2	660.9	661.8	663.6	671.5	671.5	668.8	661.8	667.1
47.5°	616.7	612.3	616.7	622.0	622.0	624.6	632.6	638.8	634.4	625.5	628.2
50°	571.7	572.6	571.7	575.2	575.2	584.9	591.1	597.2	601.7	591.1	578.7
52.5°	527.5	526.6	527.5	530.1	533.7	538.0	548.7	554.9	561.9	555.8	536.3
55°	483.3	485.1	483.3	484.2	486.0	488.6	504.5	510.7	523.9	516.0	495.7
57.5°	439.2	436.5	439.2	440.9	441.8	444.4	457.7	469.2	477.1	478.0	453.3
60°	387.9	384.3	387.9	395.9	397.6	399.4	411.7	422.4	429.4	432.0	406.5
62.5°	342.8	336.7	342.8	348.2	351.7	356.1	364.9	380.8	387.0	387.9	351.7
65°	295.1	292.5	295.1	305.7	306.6	311.9	321.6	333.1	346.3	344.6	292.5
67.5°	251.8	251.8	251.8	258.9	264.2	266.8	279.2	284.5	301.3	303.1	243.9
70°	212.0	211.1	212.0	217.4	220.9	227.0	238.5	244.8	258.0	262.4	197.9
72.5°	174.1	173.2	174.1	178.5	182.0	187.3	197.0	204.1	215.6	220.9	153.7
75°	140.5	138.7	140.5	144.0	143.2	150.2	158.2	165.2	175.8	179.3	114.0
77.5°	107.8	107.8	107.8	111.4	111.4	118.4	121.9	130.8	136.9	142.3	84.0
80°	80.4	79.5	80.4	81.3	81.3	84.8	91.0	97.2	102.5	102.5	57.4
82.5°	56.6	54.8	56.6	56.6	56.6	58.3	61.8	63.6	67.2	69.8	36.2
85°	35.3	35.3	35.3	36.2	35.3	37.2	38.0	39.8	39.8	38.0	22.0
87.5°	23.0	22.0	23.0	22.0	22.0	21.2	21.2	21.2	20.3	19.4	12.4
90°	10.3	10.3	10.3	10.3	10.3	13.7	18.4	20.6	17.7	11.9	7.6
92.5°	41.3	33.1	41.3	49.5	51.6	73.1	101.8	116.2	102.1	73.7	52.4
95°	144.0	119.2	144.0	168.9	175.1	230.0	303.2	339.7	286.9	181.3	102.1
97.5°	345.2	297.9	345.2	392.4	404.3	439.0	485.3	508.4	420.4	244.3	112.2
100°	497.4	441.0	497.4	553.8	567.8	565.3	561.8	560.2	462.5	267.1	120.6
102.5°	647.0	598.7	647.0	695.4	707.4	663.2	604.3	574.8	475.8	277.6	129.0
105°	837.9	811.9	837.9	863.8	870.3	771.2	639.2	573.2	477.3	285.4	141.5
107.5°	962.8	969.1	962.8	956.6	955.0	816.8	632.6	540.6	456.0	286.9	159.9
110°	1010.5	1037.5	1010.5	983.5	976.8	822.4	616.4	513.5	437.2	284.7	170.2





TEST NUMBER: P934261

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1014.8	1056.2	1014.8	973.2	962.9	804.9	594.2	488.8	420.8	284.7	182.8
115°	987.8	1045.4	987.8	930.3	915.9	763.7	560.7	459.2	401.9	287.4	201.5
117.5°	930.8	994.7	930.8	867.0	851.0	713.6	530.4	438.8	390.1	292.7	219.7
120°	884.8	946.9	884.8	822.8	807.2	681.7	514.3	430.6	386.1	297.0	230.3
122.5°	840.1	901.2	840.1	778.9	763.6	650.6	499.8	424.4	384.0	303.3	242.8
125°	776.2	832.5	776.2	719.8	705.7	609.7	481.7	417.6	382.3	311.7	258.7
127.5°	718.7	766.3	718.7	671.1	659.3	576.8	466.9	411.9	381.4	320.1	274.3
130°	684.9	728.8	684.9	641.0	630.0	556.6	458.6	409.7	381.9	326.3	284.6
132.5°	654.2	693.5	654.2	614.8	605.0	539.3	451.7	407.9	382.3	331.3	293.0
135°	612.1	646.0	612.1	578.2	569.7	514.7	441.3	404.6	382.0	336.7	302.8
137.5°	578.4	606.1	578.4	550.5	543.6	497.0	435.0	404.0	384.3	344.8	315.2
140°	555.1	581.1	555.1	529.2	522.7	482.5	429.0	402.2	384.7	349.8	323.7
142.5°	535.9	558.2	535.9	513.6	508.0	472.7	425.7	402.2	386.1	354.0	329.9
145°	507.2	524.1	507.2	490.3	486.1	457.2	418.7	399.5	386.1	359.5	339.5
147.5°	485.1	499.1	485.1	471.1	467.6	444.9	414.6	399.5	388.7	367.4	351.4
150°	471.2	482.5	471.2	459.8	457.0	437.8	412.3	399.5	390.1	371.6	357.6
152.5°	459.3	467.9	459.3	450.7	448.5	432.2	410.3	399.5	391.0	374.2	361.7
155°	445.6	451.3	445.6	439.9	438.5	425.5	408.1	399.5	393.0	380.2	370.6
157.5°	434.8	438.8	434.8	430.8	429.8	419.7	406.2	399.5	395.1	386.2	379.6
160°	428.3	430.6	428.3	426.1	425.5	416.8	405.2	399.5	395.9	388.9	383.6
162.5°	424.1	426.3	424.1	421.9	421.4	414.1	404.4	399.5	396.9	391.8	388.0
165°	418.1	420.4	418.1	415.8	415.2	409.9	403.0	399.5	398.3	396.0	394.3
167.5°	413.7	414.6	413.7	412.7	412.5	409.0	404.5	402.2	401.2	399.3	397.8
170°	412.5	412.5	412.5	412.5	412.5	409.0	404.5	402.2	402.1	402.0	401.9
172.5°	409.2	408.4	409.2	410.1	410.3	407.5	403.9	402.2	402.2	402.2	402.2
175°	407.3	407.3	407.3	407.3	407.3	405.6	403.3	402.2	402.7	403.8	404.6
177.5°	405.6	404.6	405.6	406.5	406.7	405.4	403.6	402.7	403.1	404.0	404.6
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934261

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	947.2	941.9	941.9	933.0	929.5	926.9	922.4	909.2	905.6	902.1	907.4
5°	955.2	945.4	938.3	922.4	909.2	903.9	887.1	855.3	834.0	818.1	809.4
7.5°	956.9	944.5	931.3	906.5	874.7	860.6	809.4	751.0	735.1	721.0	712.1
10°	955.2	941.0	922.4	885.3	810.2	785.5	734.3	696.2	686.5	683.8	686.5
12.5°	948.9	935.7	910.1	848.2	743.0	726.3	696.2	674.2	672.3	676.8	700.6
15°	938.3	926.0	896.0	798.7	706.0	693.6	672.3	664.4	674.2	705.1	776.7
17.5°	927.7	913.6	876.5	750.2	677.7	668.8	653.8	669.7	724.5	766.1	789.9
20°	913.6	896.8	854.4	714.8	657.3	649.4	642.3	713.9	755.4	770.4	783.7
22.5°	896.8	879.1	824.4	690.1	636.2	630.0	634.4	738.7	755.4	766.1	777.6
25°	874.7	859.7	789.0	670.6	619.4	612.3	629.1	736.0	745.7	748.4	771.3
27.5°	854.4	834.9	751.9	652.9	599.1	596.4	633.5	724.5	731.6	734.3	758.9
30°	829.6	800.5	710.4	634.4	577.8	577.0	634.4	710.4	708.6	715.6	740.4
32.5°	804.0	749.3	663.6	611.4	557.5	556.7	628.2	689.2	687.4	697.1	715.6
35°	780.2	709.5	600.0	584.9	531.9	532.8	613.1	664.4	665.3	674.2	685.6
37.5°	755.4	675.1	530.1	555.8	507.1	507.1	592.9	641.4	639.7	642.3	658.3
40°	726.3	621.1	468.3	517.8	484.2	481.6	568.1	616.7	610.5	609.6	631.8
42.5°	695.4	561.9	422.4	467.4	457.7	454.2	538.0	586.7	575.2	577.8	606.1
45°	661.8	546.0	387.0	395.0	430.3	427.6	505.4	552.2	544.3	551.3	580.5
47.5°	628.2	514.2	375.5	327.8	401.1	400.2	469.2	518.6	514.2	521.3	552.2
50°	582.2	478.8	374.6	281.0	368.4	372.0	425.9	486.0	486.0	492.1	524.9
52.5°	523.0	435.5	340.2	254.4	330.4	341.0	387.9	457.7	459.4	465.7	494.7
55°	469.2	390.5	315.4	234.2	285.4	308.4	350.8	428.5	432.0	438.3	464.7
57.5°	419.7	325.1	310.1	210.3	243.9	265.9	318.1	400.2	402.0	407.4	432.9
60°	366.7	235.0	284.5	184.6	207.6	224.4	288.0	366.7	372.8	376.4	398.5
62.5°	306.6	170.6	258.0	167.0	190.0	193.5	263.3	334.9	342.8	345.4	358.7
65°	218.3	143.2	219.1	151.9	171.4	172.3	236.8	302.1	309.2	313.6	323.4
67.5°	147.6	116.6	167.0	137.8	157.3	158.2	211.1	264.2	273.9	277.5	283.6
70°	102.5	77.7	123.7	122.8	141.4	143.2	183.7	229.8	238.5	241.2	244.8
72.5°	75.1	62.7	102.5	110.4	124.5	126.4	155.5	190.9	199.7	202.4	204.1
75°	57.4	66.2	83.1	96.3	106.0	106.9	127.3	155.5	161.7	163.5	164.3
77.5°	45.9	61.8	61.0	77.7	86.6	84.8	99.9	120.2	125.4	125.4	125.4
80°	34.4	48.6	45.9	55.7	63.6	61.8	71.6	85.7	87.5	89.2	88.4
82.5°	25.6	30.9	30.9	35.3	42.4	40.7	47.7	55.7	55.7	55.7	57.4
85°	15.9	17.7	14.1	18.5	23.9	23.0	26.5	30.0	30.9	30.9	29.2
87.5°	9.7	8.0	4.4	7.0	10.6	10.6	12.4	13.3	12.4	12.4	12.4
90°	7.1	4.9	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.4	13.7
92.5°	47.8	29.3	10.9	29.3	47.8	52.4	73.7	102.1	116.2	101.8	73.1
95°	93.6	59.8	26.1	59.8	93.6	102.1	181.3	286.9	339.7	303.2	230.0
97.5°	104.7	74.9	45.1	74.9	104.7	112.2	244.3	420.4	508.4	485.3	439.0
100°	113.8	86.8	59.7	86.8	113.8	120.6	267.1	462.5	560.2	561.8	565.3
102.5°	122.7	97.5	72.2	97.5	122.7	129.0	277.6	475.8	574.8	604.3	663.2
105°	136.1	114.8	93.5	114.8	136.1	141.5	285.4	477.3	573.2	639.2	771.2
107.5°	154.9	135.1	115.1	135.1	154.9	159.9	286.9	456.0	540.6	632.6	816.8
110°	165.7	147.7	129.8	147.7	165.7	170.2	284.7	437.2	513.5	616.4	822.4



TEST NUMBER: P934261

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	178.5	161.3	144.2	161.3	178.5	182.8	284.7	420.8	488.8	594.2	804.9
115°	197.5	181.7	165.9	181.7	197.5	201.5	287.4	401.9	459.2	560.7	763.7
117.5°	216.1	201.7	187.3	201.7	216.1	219.7	292.7	390.1	438.8	530.4	713.6
120°	226.9	213.3	199.8	213.3	226.9	230.3	297.0	386.1	430.6	514.3	681.7
122.5°	239.3	225.7	212.1	225.7	239.3	242.8	303.3	384.0	424.4	499.8	650.6
125°	255.7	243.2	230.8	243.2	255.7	258.7	311.7	382.3	417.6	481.7	609.7
127.5°	271.1	258.6	246.0	258.6	271.1	274.3	320.1	381.4	411.9	466.9	576.8
130°	281.2	267.7	254.2	267.7	281.2	284.6	326.3	381.9	409.7	458.6	556.6
132.5°	289.7	276.1	262.6	276.1	289.7	293.0	331.3	382.3	407.9	451.7	539.3
135°	299.7	287.4	275.1	287.4	299.7	302.8	336.7	382.0	404.6	441.3	514.7
137.5°	312.1	300.0	287.8	300.0	312.1	315.2	344.8	384.3	404.0	435.0	497.0
140°	320.8	309.7	298.4	309.7	320.8	323.7	349.8	384.7	402.2	429.0	482.5
142.5°	327.3	316.9	306.5	316.9	327.3	329.9	354.0	386.1	402.2	425.7	472.7
145°	337.2	328.1	319.1	328.1	337.2	339.5	359.5	386.1	399.5	418.7	457.2
147.5°	349.2	340.3	331.6	340.3	349.2	351.4	367.4	388.7	399.5	414.6	444.9
150°	355.6	347.7	339.7	347.7	355.6	357.6	371.6	390.1	399.5	412.3	437.8
152.5°	360.2	354.1	348.1	354.1	360.2	361.7	374.2	391.0	399.5	410.3	432.2
155°	369.5	365.1	360.6	365.1	369.5	370.6	380.2	393.0	399.5	408.1	425.5
157.5°	378.5	374.2	369.9	374.2	378.5	379.6	386.2	395.1	399.5	406.2	419.7
160°	382.8	379.4	376.1	379.4	382.8	383.6	388.9	395.9	399.5	405.2	416.8
162.5°	387.4	384.9	382.3	384.9	387.4	388.0	391.8	396.9	399.5	404.4	414.1
165°	393.7	391.4	389.1	391.4	393.7	394.3	396.0	398.3	399.5	403.0	409.9
167.5°	397.5	396.4	395.3	396.4	397.5	397.8	399.3	401.2	402.2	404.5	409.0
170°	401.6	400.5	399.5	400.5	401.6	401.9	402.0	402.1	402.2	404.5	409.0
172.5°	402.1	401.9	401.6	401.9	402.1	402.2	402.2	402.2	402.2	403.9	407.5
175°	404.6	404.6	404.6	404.6	404.6	404.6	403.8	402.7	402.2	403.3	405.6
177.5°	404.6	404.6	404.6	404.6	404.6	404.6	404.0	403.1	402.7	403.6	405.4
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934261

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9	933.9
2.5°	901.2	898.6	902.1	892.4	902.1	898.6	901.2	907.4	902.1	905.6	909.2
5°	790.8	786.3	772.2	760.7	772.2	786.3	790.8	809.4	818.1	834.0	855.3
7.5°	706.9	703.3	699.7	692.7	699.7	703.3	706.9	712.1	721.0	735.1	751.0
10°	688.3	689.2	694.5	693.6	694.5	689.2	688.3	686.5	683.8	686.5	696.2
12.5°	736.0	743.9	773.1	771.3	773.1	743.9	736.0	700.6	676.8	672.3	674.2
15°	790.8	793.5	799.6	800.5	799.6	793.5	790.8	776.7	705.1	674.2	664.4
17.5°	796.1	797.0	801.4	801.4	801.4	797.0	796.1	789.9	766.1	724.5	669.7
20°	791.7	793.5	802.2	804.0	802.2	793.5	791.7	783.7	770.4	755.4	713.9
22.5°	789.9	793.5	800.5	799.6	800.5	793.5	789.9	777.6	766.1	755.4	738.7
25°	781.1	781.1	782.0	782.8	782.0	781.1	781.1	771.3	748.4	745.7	736.0
27.5°	762.5	764.3	769.6	768.7	769.6	764.3	762.5	758.9	734.3	731.6	724.5
30°	745.7	743.9	739.5	736.0	739.5	743.9	745.7	740.4	715.6	708.6	710.4
32.5°	717.5	713.0	708.6	706.0	708.6	713.0	717.5	715.6	697.1	687.4	689.2
35°	683.8	684.7	683.8	681.2	683.8	684.7	683.8	685.6	674.2	665.3	664.4
37.5°	660.0	661.8	660.9	657.3	660.9	661.8	660.0	658.3	642.3	639.7	641.4
40°	635.3	636.2	635.3	632.6	635.3	636.2	635.3	631.8	609.6	610.5	616.7
42.5°	611.4	610.5	607.9	606.1	607.9	610.5	611.4	606.1	577.8	575.2	586.7
45°	584.1	584.9	579.6	577.0	579.6	584.9	584.1	580.5	551.3	544.3	552.2
47.5°	556.7	556.7	552.2	549.6	552.2	556.7	556.7	552.2	521.3	514.2	518.6
50°	527.5	526.6	520.4	519.5	520.4	526.6	527.5	524.9	492.1	486.0	486.0
52.5°	493.9	493.9	494.7	496.6	494.7	493.9	493.9	494.7	465.7	459.4	457.7
55°	464.7	465.7	471.8	473.6	471.8	465.7	464.7	464.7	438.3	432.0	428.5
57.5°	434.7	434.7	439.2	439.2	439.2	434.7	434.7	432.9	407.4	402.0	400.2
60°	400.2	402.0	405.5	404.6	405.5	402.0	400.2	398.5	376.4	372.8	366.7
62.5°	364.1	365.8	366.7	364.9	366.7	365.8	364.1	358.7	345.4	342.8	334.9
65°	326.0	327.8	328.7	326.9	328.7	327.8	326.0	323.4	313.6	309.2	302.1
67.5°	287.1	286.2	285.4	289.0	285.4	286.2	287.1	283.6	277.5	273.9	264.2
70°	247.4	247.4	246.5	248.3	246.5	247.4	247.4	244.8	241.2	238.5	229.8
72.5°	205.0	204.1	207.6	205.0	207.6	204.1	205.0	204.1	202.4	199.7	190.9
75°	163.5	165.2	163.5	166.1	163.5	165.2	163.5	164.3	163.5	161.7	155.5
77.5°	124.5	126.4	124.5	124.5	124.5	126.4	124.5	125.4	125.4	125.4	120.2
80°	88.4	87.5	87.5	86.6	87.5	87.5	88.4	88.4	89.2	87.5	85.7
82.5°	56.6	55.7	55.7	57.4	55.7	55.7	56.6	57.4	55.7	55.7	55.7
85°	30.9	31.8	30.0	30.0	30.0	31.8	30.9	29.2	30.9	30.9	30.0
87.5°	11.5	10.6	10.6	10.6	10.6	10.6	11.5	12.4	12.4	12.4	13.3
90°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	13.7	18.4	20.6	17.7
92.5°	51.6	49.5	41.3	33.1	41.3	49.5	51.6	73.1	101.8	116.2	102.1
95°	175.1	168.9	144.0	119.2	144.0	168.9	175.1	230.0	303.2	339.7	286.9
97.5°	404.3	392.4	345.2	297.9	345.2	392.4	404.3	439.0	485.3	508.4	420.4
100°	567.8	553.8	497.4	441.0	497.4	553.8	567.8	565.3	561.8	560.2	462.5
102.5°	707.4	695.4	647.0	598.7	647.0	695.4	707.4	663.2	604.3	574.8	475.8
105°	870.3	863.8	837.9	811.9	837.9	863.8	870.3	771.2	639.2	573.2	477.3
107.5°	955.0	956.6	962.8	969.1	962.8	956.6	955.0	816.8	632.6	540.6	456.0
110°	976.8	983.5	1010.5	1037.5	1010.5	983.5	976.8	822.4	616.4	513.5	437.2



TEST NUMBER: P934261

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	962.9	973.2	1014.8	1056.2	1014.8	973.2	962.9	804.9	594.2	488.8	420.8
115°	915.9	930.3	987.8	1045.4	987.8	930.3	915.9	763.7	560.7	459.2	401.9
117.5°	851.0	867.0	930.8	994.7	930.8	867.0	851.0	713.6	530.4	438.8	390.1
120°	807.2	822.8	884.8	946.9	884.8	822.8	807.2	681.7	514.3	430.6	386.1
122.5°	763.6	778.9	840.1	901.2	840.1	778.9	763.6	650.6	499.8	424.4	384.0
125°	705.7	719.8	776.2	832.5	776.2	719.8	705.7	609.7	481.7	417.6	382.3
127.5°	659.3	671.1	718.7	766.3	718.7	671.1	659.3	576.8	466.9	411.9	381.4
130°	630.0	641.0	684.9	728.8	684.9	641.0	630.0	556.6	458.6	409.7	381.9
132.5°	605.0	614.8	654.2	693.5	654.2	614.8	605.0	539.3	451.7	407.9	382.3
135°	569.7	578.2	612.1	646.0	612.1	578.2	569.7	514.7	441.3	404.6	382.0
137.5°	543.6	550.5	578.4	606.1	578.4	550.5	543.6	497.0	435.0	404.0	384.3
140°	522.7	529.2	555.1	581.1	555.1	529.2	522.7	482.5	429.0	402.2	384.7
142.5°	508.0	513.6	535.9	558.2	535.9	513.6	508.0	472.7	425.7	402.2	386.1
145°	486.1	490.3	507.2	524.1	507.2	490.3	486.1	457.2	418.7	399.5	386.1
147.5°	467.6	471.1	485.1	499.1	485.1	471.1	467.6	444.9	414.6	399.5	388.7
150°	457.0	459.8	471.2	482.5	471.2	459.8	457.0	437.8	412.3	399.5	390.1
152.5°	448.5	450.7	459.3	467.9	459.3	450.7	448.5	432.2	410.3	399.5	391.0
155°	438.5	439.9	445.6	451.3	445.6	439.9	438.5	425.5	408.1	399.5	393.0
157.5°	429.8	430.8	434.8	438.8	434.8	430.8	429.8	419.7	406.2	399.5	395.1
160°	425.5	426.1	428.3	430.6	428.3	426.1	425.5	416.8	405.2	399.5	395.9
162.5°	421.4	421.9	424.1	426.3	424.1	421.9	421.4	414.1	404.4	399.5	396.9
165°	415.2	415.8	418.1	420.4	418.1	415.8	415.2	409.9	403.0	399.5	398.3
167.5°	412.5	412.7	413.7	414.6	413.7	412.7	412.5	409.0	404.5	402.2	401.2
170°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	409.0	404.5	402.2	402.1
172.5°	410.3	410.1	409.2	408.4	409.2	410.1	410.3	407.5	403.9	402.2	402.2
175°	407.3	407.3	407.3	407.3	407.3	407.3	407.3	405.6	403.3	402.2	402.7
177.5°	406.7	406.5	405.6	404.6	405.6	406.5	406.7	405.4	403.6	402.7	403.1
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934261

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	933.9	933.9	933.9	933.9	933.9
2.5°	922.4	926.9	929.5	933.0	941.9
5°	887.1	903.9	909.2	922.4	938.3
7.5°	809.4	860.6	874.7	906.5	931.3
10°	734.3	785.5	810.2	885.3	922.4
12.5°	696.2	726.3	743.0	848.2	910.1
15°	672.3	693.6	706.0	798.7	896.0
17.5°	653.8	668.8	677.7	750.2	876.5
20°	642.3	649.4	657.3	714.8	854.4
22.5°	634.4	630.0	636.2	690.1	824.4
25°	629.1	612.3	619.4	670.6	789.0
27.5°	633.5	596.4	599.1	652.9	751.9
30°	634.4	577.0	577.8	634.4	710.4
32.5°	628.2	556.7	557.5	611.4	663.6
35°	613.1	532.8	531.9	584.9	600.0
37.5°	592.9	507.1	507.1	555.8	530.1
40°	568.1	481.6	484.2	517.8	468.3
42.5°	538.0	454.2	457.7	467.4	422.4
45°	505.4	427.6	430.3	395.0	387.0
47.5°	469.2	400.2	401.1	327.8	375.5
50°	425.9	372.0	368.4	281.0	374.6
52.5°	387.9	341.0	330.4	254.4	340.2
55°	350.8	308.4	285.4	234.2	315.4
57.5°	318.1	265.9	243.9	210.3	310.1
60°	288.0	224.4	207.6	184.6	284.5
62.5°	263.3	193.5	190.0	167.0	258.0
65°	236.8	172.3	171.4	151.9	219.1
67.5°	211.1	158.2	157.3	137.8	167.0
70°	183.7	143.2	141.4	122.8	123.7
72.5°	155.5	126.4	124.5	110.4	102.5
75°	127.3	106.9	106.0	96.3	83.1
77.5°	99.9	84.8	86.6	77.7	61.0
80°	71.6	61.8	63.6	55.7	45.9
82.5°	47.7	40.7	42.4	35.3	30.9
85°	26.5	23.0	23.9	18.5	14.1
87.5°	12.4	10.6	10.6	7.0	4.4
90°	11.9	7.6	7.1	4.9	2.7
92.5°	73.7	52.4	47.8	29.3	10.9
95°	181.3	102.1	93.6	59.8	26.1
97.5°	244.3	112.2	104.7	74.9	45.1
100°	267.1	120.6	113.8	86.8	59.7
102.5°	277.6	129.0	122.7	97.5	72.2
105°	285.4	141.5	136.1	114.8	93.5
107.5°	286.9	159.9	154.9	135.1	115.1
110°	284.7	170.2	165.7	147.7	129.8



TEST NUMBER: P934261

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	284.7	182.8	178.5	161.3	144.2
115°	287.4	201.5	197.5	181.7	165.9
117.5°	292.7	219.7	216.1	201.7	187.3
120°	297.0	230.3	226.9	213.3	199.8
122.5°	303.3	242.8	239.3	225.7	212.1
125°	311.7	258.7	255.7	243.2	230.8
127.5°	320.1	274.3	271.1	258.6	246.0
130°	326.3	284.6	281.2	267.7	254.2
132.5°	331.3	293.0	289.7	276.1	262.6
135°	336.7	302.8	299.7	287.4	275.1
137.5°	344.8	315.2	312.1	300.0	287.8
140°	349.8	323.7	320.8	309.7	298.4
142.5°	354.0	329.9	327.3	316.9	306.5
145°	359.5	339.5	337.2	328.1	319.1
147.5°	367.4	351.4	349.2	340.3	331.6
150°	371.6	357.6	355.6	347.7	339.7
152.5°	374.2	361.7	360.2	354.1	348.1
155°	380.2	370.6	369.5	365.1	360.6
157.5°	386.2	379.6	378.5	374.2	369.9
160°	388.9	383.6	382.8	379.4	376.1
162.5°	391.8	388.0	387.4	384.9	382.3
165°	396.0	394.3	393.7	391.4	389.1
167.5°	399.3	397.8	397.5	396.4	395.3
170°	402.0	401.9	401.6	400.5	399.5
172.5°	402.2	402.2	402.1	401.9	401.6
175°	403.8	404.6	404.6	404.6	404.6
177.5°	404.0	404.6	404.6	404.6	404.6
180°	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934261

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-6-3000K

**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	10.71	11.55	11.68	12.54	13.84	13.53	14.38	14.51	15.37	16.67
	3H	11.19	11.94	12.17	12.94	14.26	14.88	15.63	15.86	16.63	17.95
	4H	11.38	12.09	12.37	13.09	14.42	15.32	16.03	16.32	17.04	18.36
	6H	11.49	12.15	12.50	13.16	14.50	15.60	16.26	16.61	17.27	18.61
	8H	11.50	12.12	12.51	13.14	14.48	15.68	16.30	16.69	17.32	18.66
	12H	11.47	12.06	12.49	13.08	14.44	15.71	16.31	16.73	17.32	18.69
4H	2H	11.74	12.46	12.74	13.46	14.78	13.94	14.66	14.95	15.66	16.99
	3H	12.76	13.36	13.78	14.39	15.73	15.44	16.04	16.46	17.07	18.41
	4H	13.04	13.59	14.06	14.61	15.97	15.97	16.52	16.99	17.54	18.90
	6H	13.16	13.63	14.20	14.68	16.04	16.33	16.80	17.37	17.85	19.21
	8H	13.17	13.61	14.20	14.65	16.02	16.44	16.88	17.47	17.92	19.29
	12H	13.14	13.53	14.19	14.58	15.97	16.49	16.89	17.55	17.94	19.33
8H	4H	13.49	13.93	14.52	14.97	16.34	16.09	16.53	17.13	17.57	18.95
	6H	13.75	14.11	14.81	15.19	16.57	16.53	16.89	17.59	17.97	19.34
	8H	13.79	14.11	14.86	15.18	16.57	16.68	17.00	17.74	18.06	19.46
	12H	13.78	14.06	14.85	15.12	16.55	16.78	17.06	17.84	18.12	19.55
12H	4H	13.50	13.89	14.55	14.95	16.33	16.06	16.45	17.11	17.51	18.89
	6H	13.81	14.13	14.88	15.20	16.59	16.53	16.84	17.59	17.91	19.30
	8H	13.88	14.16	14.95	15.22	16.65	16.69	16.97	17.75	18.02	19.46