

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: P934239

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934239
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-92765-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

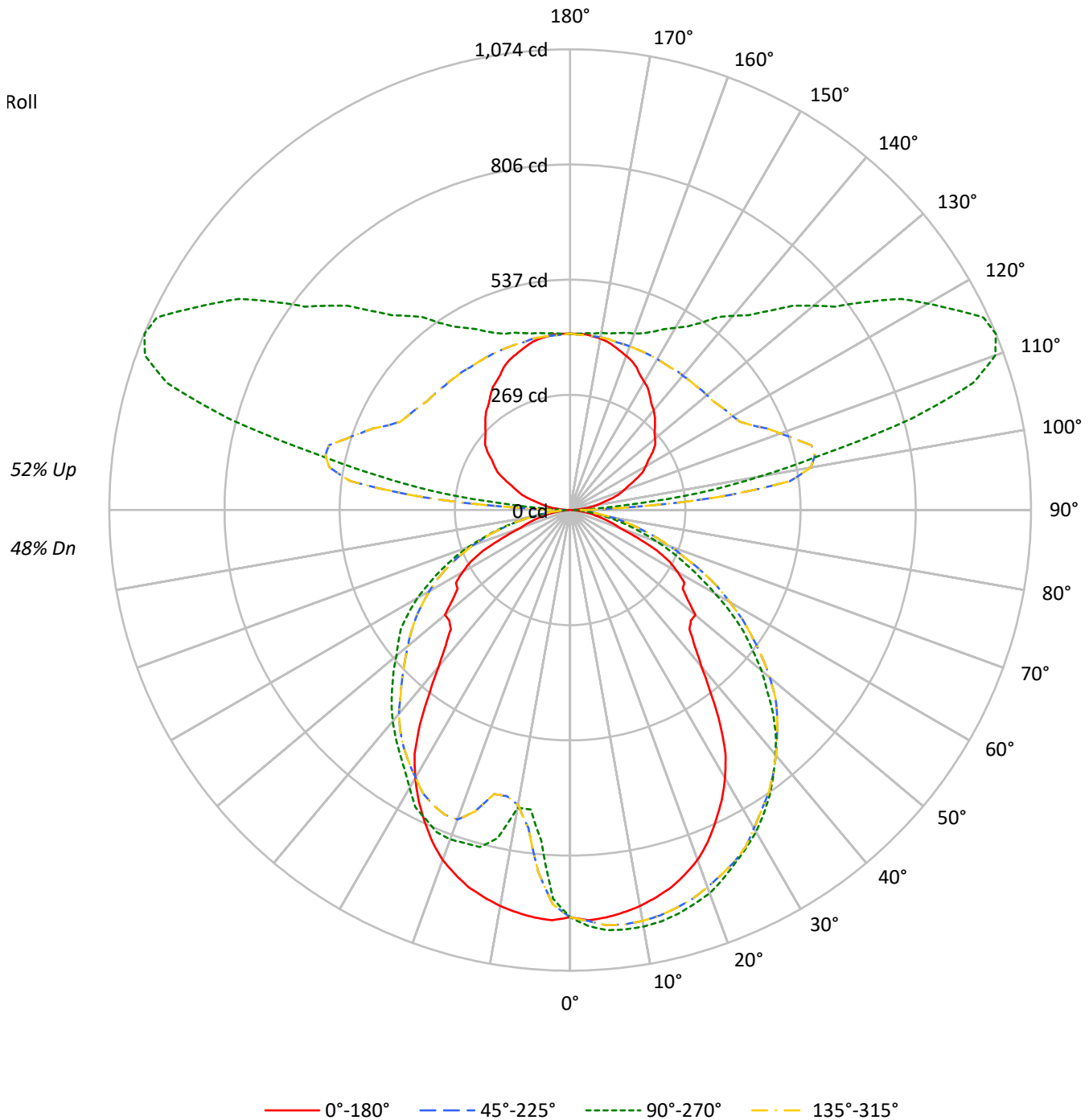
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5128.1 lumens
Efficiency: N/A
Efficacy: 120.4 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





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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°	5871	5871	5871	5871
5°	5913	5927	5913	4660
10°	5871	5839	5871	4174
15°	5806	5712	5806	4769
20°	5682	5562	5682	4779
25°	5431	5344	5431	4678
30°	5108	5162	5108	4456
35°	4551	4933	4551	4211
40°	3790	4662	3790	4027
45°	3384	4346	3384	3815
50°	3592	3969	3592	3601
55°	3376	3563	3376	3478
60°	3476	3026	3476	3185
65°	3147	2501	3147	2795
70°	2174	1993	2174	2343
75°	1899	1473	1899	1764
80°	1520	974	1520	1061
85°	859	516	859	438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5191 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	1.7
10°-20°	243.3	4.7
20°-30°	376.0	7.3
30°-40°	448.9	8.8
40°-50°	451.5	8.8
50°-60°	392.9	7.7
60°-70°	278.6	5.4
70°-80°	147.4	2.9
80°-90°	38.3	0.7
90°-100°	200.4	3.9
100°-110°	527.0	10.3
110°-120°	546.4	10.7
120°-130°	438.3	8.5
130°-140°	343.9	6.7
140°-150°	264.0	5.1
150°-160°	190.1	3.7
160°-170°	116.3	2.3
170°-180°	39.3	0.8
0°-30°	705.0	13.7
0°-40°	1153.9	22.5
0°-60°	1998.3	39.0
0°-90°	2462.5	48.0
90°-120°	1273.8	24.8
90°-150°	2319.9	45.2
90°-180°	2666.0	52.0
0°-180°	5128.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	949	949	949	949	949	
5°	954	983	954	773	954	90
15°	911	974	911	814	911	256
25°	802	909	802	796	802	368
35°	610	811	610	692	610	377
45°	393	668	393	586	393	315
55°	320	493	320	481	320	295
65°	223	297	223	332	223	213
75°	84	141	84	169	84	89
85°	14	36	14	30	14	19
90°	3	10	3	10	3	3
95°	26	121	26	121	26	29
105°	95	825	95	825	95	101
115°	169	1062	169	1062	169	167
125°	235	846	235	846	235	208
135°	280	656	280	656	280	216
145°	324	533	324	533	324	203
155°	366	459	366	459	366	168
165°	395	427	395	427	395	112
175°	411	414	411	414	411	39
180°	411	411	411	411	411	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	957.2	957.2	962.6	964.4	964.4	961.7	959.0	961.7	969.8	972.5	971.6
5°	953.6	960.8	970.7	972.5	974.3	973.4	971.6	973.4	982.3	984.2	985.1
7.5°	946.4	959.9	972.5	975.2	977.9	975.2	974.3	976.1	985.1	986.9	986.9
10°	937.4	956.4	970.7	972.5	975.2	972.5	972.5	976.1	985.1	986.9	987.8
12.5°	924.9	950.9	964.4	966.2	969.8	968.9	968.0	971.6	980.5	982.3	982.3
15°	910.6	941.1	953.6	955.5	961.7	959.9	959.9	963.5	973.4	976.1	975.2
17.5°	890.7	928.5	942.9	945.6	950.0	949.1	950.0	953.6	962.6	964.4	965.3
20°	868.3	911.5	928.5	931.2	935.6	935.6	935.6	940.2	949.1	952.7	952.7
22.5°	837.8	893.4	911.5	913.2	918.6	918.6	920.4	926.7	934.8	935.6	935.6
25°	801.8	873.7	889.0	894.4	899.8	902.4	905.1	908.8	911.5	910.6	911.5
27.5°	764.2	848.5	868.3	871.9	879.1	881.8	885.4	886.3	887.2	889.9	888.1
30°	722.0	813.5	843.2	846.7	858.4	860.2	856.6	858.4	862.9	864.8	866.6
32.5°	674.4	761.5	817.1	825.2	836.0	830.6	829.7	832.4	839.6	839.6	841.4
35°	609.7	721.1	792.9	800.1	808.2	801.8	805.5	806.4	810.9	813.5	812.6
37.5°	538.8	686.1	767.7	773.1	779.4	771.3	776.8	779.4	783.0	781.2	781.2
40°	475.9	631.3	738.1	741.7	747.1	740.8	746.2	748.0	749.8	748.0	747.1
42.5°	429.3	571.1	706.7	711.2	707.6	712.0	713.9	717.5	714.8	711.2	711.2
45°	393.3	554.9	672.6	677.9	672.6	679.7	682.4	682.4	674.4	672.6	671.7
47.5°	381.6	522.6	638.5	638.5	635.7	644.7	649.2	643.0	634.8	632.2	632.2
50°	380.7	486.7	591.7	588.1	600.7	611.5	607.0	600.7	594.5	584.6	584.6
52.5°	345.7	442.7	531.6	545.0	564.8	571.1	564.0	557.6	546.8	542.4	538.8
55°	320.5	396.9	476.8	503.8	524.4	532.4	519.1	512.7	496.6	493.9	492.1
57.5°	315.2	330.4	426.5	460.7	485.8	484.9	476.8	465.1	451.7	449.0	448.1
60°	289.1	238.9	372.7	413.1	439.1	436.4	429.3	418.5	405.9	404.1	402.3
62.5°	262.2	173.3	311.6	357.4	394.2	393.3	387.0	370.9	361.9	357.4	353.8
65°	222.7	145.5	221.8	297.2	350.2	352.0	338.6	326.9	317.0	311.6	310.7
67.5°	169.7	118.5	150.0	247.9	308.0	306.2	289.1	283.8	271.2	268.5	263.1
70°	125.7	79.0	104.2	201.1	266.7	262.2	248.8	242.4	230.7	224.5	220.9
72.5°	104.2	63.7	76.3	156.2	224.5	219.1	207.4	200.2	190.4	185.0	181.4
75°	84.4	67.3	58.4	115.9	182.3	178.7	167.9	160.8	152.6	145.5	146.4
77.5°	61.9	62.8	46.7	85.3	144.6	139.2	132.9	123.9	120.3	113.2	113.2
80°	46.7	49.4	35.0	58.4	104.2	104.2	98.8	92.5	86.2	82.7	82.7
82.5°	31.4	31.4	26.1	36.8	71.0	68.3	64.6	62.8	59.3	57.5	57.5
85°	14.4	17.9	16.2	22.4	38.7	40.4	40.4	38.7	37.8	35.9	36.8
87.5°	4.5	8.1	9.9	12.6	19.7	20.6	21.5	21.5	21.5	22.4	22.4
90°	2.8	5.0	7.2	7.8	12.1	18.0	21.0	18.7	13.9	10.4	10.4
92.5°	11.1	29.8	48.6	53.3	74.9	103.7	118.1	103.5	74.3	52.4	50.3
95°	26.5	60.8	95.2	103.7	184.2	291.6	345.3	308.1	233.8	178.0	171.7
97.5°	45.8	76.1	106.4	114.0	248.2	427.2	516.6	493.2	446.1	410.9	398.8
100°	60.7	88.2	115.7	122.6	271.4	470.1	569.3	571.0	574.5	577.1	562.8
102.5°	73.4	99.1	124.7	131.1	282.2	483.5	584.2	614.1	674.0	718.9	706.7
105°	95.0	116.7	138.4	143.8	290.0	485.0	582.5	649.6	783.8	884.5	877.9
107.5°	117.0	137.3	157.5	162.5	291.5	463.4	549.4	643.0	830.1	970.5	972.2
110°	131.9	150.1	168.4	173.0	289.3	444.3	521.8	626.4	835.8	992.7	999.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	146.6	164.0	181.4	185.8	289.4	427.7	496.7	603.9	818.0	978.6	989.1
115°	168.6	184.7	200.8	204.8	292.1	408.5	466.7	569.8	776.1	930.8	945.5
117.5°	190.4	205.0	219.6	223.2	297.5	396.5	446.0	539.1	725.3	864.9	881.1
120°	203.1	216.8	230.6	234.0	301.9	392.4	437.7	522.7	692.9	820.4	836.2
122.5°	215.6	229.4	243.2	246.7	308.2	390.3	431.3	507.9	661.2	776.0	791.6
125°	234.6	247.2	259.8	263.0	316.8	388.6	424.4	489.5	619.7	717.2	731.5
127.5°	250.0	262.8	275.6	278.8	325.4	387.6	418.6	474.5	586.2	670.0	682.1
130°	258.3	272.1	285.8	289.2	331.6	388.1	416.4	466.1	565.7	640.3	651.4
132.5°	266.9	280.6	294.4	297.8	336.7	388.6	414.5	459.1	548.1	614.8	624.8
135°	279.6	292.1	304.6	307.7	342.2	388.2	411.2	448.5	523.1	579.0	587.6
137.5°	292.5	304.9	317.2	320.4	350.4	390.5	410.6	442.1	505.1	552.4	559.5
140°	303.3	314.7	326.1	328.9	355.5	391.0	408.7	436.0	490.4	531.2	537.8
142.5°	311.5	322.1	332.6	335.3	359.7	392.4	408.7	432.7	480.4	516.3	522.0
145°	324.3	333.5	342.7	345.0	365.3	392.4	406.0	425.5	464.6	494.0	498.3
147.5°	337.0	345.9	354.9	357.1	373.4	395.1	406.0	421.3	452.1	475.2	478.8
150°	345.3	353.4	361.4	363.5	377.7	396.5	406.0	419.0	445.0	464.4	467.3
152.5°	353.7	359.9	366.1	367.6	380.3	397.4	406.0	417.0	439.3	455.9	458.0
155°	366.5	371.1	375.5	376.7	386.4	399.4	406.0	414.8	432.5	445.7	447.1
157.5°	375.9	380.3	384.7	385.8	392.5	401.5	406.0	412.8	426.6	436.8	437.8
160°	382.2	385.6	389.0	389.9	395.3	402.4	406.0	411.9	423.6	432.5	433.0
162.5°	388.6	391.1	393.7	394.4	398.2	403.4	406.0	411.0	420.9	428.3	428.8
165°	395.4	397.8	400.1	400.7	402.5	404.8	406.0	409.5	416.6	421.9	422.6
167.5°	401.8	402.8	404.0	404.3	405.8	407.7	408.7	411.1	415.7	419.2	419.4
170°	406.0	407.0	408.2	408.5	408.6	408.6	408.7	411.1	415.7	419.2	419.2
172.5°	408.2	408.5	408.6	408.7	408.7	408.7	408.7	410.5	414.2	416.9	416.8
175°	411.2	411.2	411.2	411.2	410.4	409.3	408.7	409.9	412.2	413.9	413.9
177.5°	411.2	411.2	411.2	411.2	410.6	409.7	409.3	410.2	412.0	413.4	413.1
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	973.4	970.7	973.4	971.6	972.5	969.8	961.7	959.0	961.7	964.4	964.4
5°	985.1	983.2	985.1	985.1	984.2	982.3	973.4	971.6	973.4	974.3	972.5
7.5°	988.7	986.0	988.7	986.9	986.9	985.1	976.1	974.3	975.2	977.9	975.2
10°	988.7	986.0	988.7	987.8	986.9	985.1	976.1	972.5	972.5	975.2	972.5
12.5°	984.2	982.3	984.2	982.3	982.3	980.5	971.6	968.0	968.9	969.8	966.2
15°	977.0	974.3	977.0	975.2	976.1	973.4	963.5	959.9	959.9	961.7	955.5
17.5°	966.2	962.6	966.2	965.3	964.4	962.6	953.6	950.0	949.1	950.0	945.6
20°	953.6	950.9	953.6	952.7	952.7	949.1	940.2	935.6	935.6	935.6	931.2
22.5°	933.9	931.2	933.9	935.6	935.6	934.8	926.7	920.4	918.6	918.6	913.2
25°	911.5	908.8	911.5	911.5	910.6	911.5	908.8	905.1	902.4	899.8	894.4
27.5°	889.9	888.1	889.9	888.1	889.9	887.2	886.3	885.4	881.8	879.1	871.9
30°	868.3	866.6	868.3	866.6	864.8	862.9	858.4	856.6	860.2	858.4	846.7
32.5°	841.4	839.6	841.4	841.4	839.6	839.6	832.4	829.7	830.6	836.0	825.2
35°	813.5	810.9	813.5	812.6	813.5	810.9	806.4	805.5	801.8	808.2	800.1
37.5°	781.2	778.5	781.2	781.2	781.2	783.0	779.4	776.8	771.3	779.4	773.1
40°	748.0	744.4	748.0	747.1	748.0	749.8	748.0	746.2	740.8	747.1	741.7
42.5°	710.3	709.4	710.3	711.2	711.2	714.8	717.5	713.9	712.0	707.6	711.2
45°	669.9	668.0	669.9	671.7	672.6	674.4	682.4	682.4	679.7	672.6	677.9
47.5°	626.8	622.2	626.8	632.2	632.2	634.8	643.0	649.2	644.7	635.7	638.5
50°	581.0	581.9	581.0	584.6	584.6	594.5	600.7	607.0	611.5	600.7	588.1
52.5°	536.1	535.2	536.1	538.8	542.4	546.8	557.6	564.0	571.1	564.8	545.0
55°	491.2	493.0	491.2	492.1	493.9	496.6	512.7	519.1	532.4	524.4	503.8
57.5°	446.3	443.6	446.3	448.1	449.0	451.7	465.1	476.8	484.9	485.8	460.7
60°	394.2	390.6	394.2	402.3	404.1	405.9	418.5	429.3	436.4	439.1	413.1
62.5°	348.4	342.1	348.4	353.8	357.4	361.9	370.9	387.0	393.3	394.2	357.4
65°	299.9	297.2	299.9	310.7	311.6	317.0	326.9	338.6	352.0	350.2	297.2
67.5°	255.9	255.9	255.9	263.1	268.5	271.2	283.8	289.1	306.2	308.0	247.9
70°	215.5	214.6	215.5	220.9	224.5	230.7	242.4	248.8	262.2	266.7	201.1
72.5°	176.9	176.0	176.9	181.4	185.0	190.4	200.2	207.4	219.1	224.5	156.2
75°	142.8	140.9	142.8	146.4	145.5	152.6	160.8	167.9	178.7	182.3	115.9
77.5°	109.5	109.5	109.5	113.2	113.2	120.3	123.9	132.9	139.2	144.6	85.3
80°	81.7	80.8	81.7	82.7	82.7	86.2	92.5	98.8	104.2	104.2	58.4
82.5°	57.5	55.7	57.5	57.5	57.5	59.3	62.8	64.6	68.3	71.0	36.8
85°	35.9	35.9	35.9	36.8	35.9	37.8	38.7	40.4	40.4	38.7	22.4
87.5°	23.4	22.4	23.4	22.4	22.4	21.5	21.5	21.5	20.6	19.7	12.6
90°	10.4	10.4	10.4	10.4	10.4	13.9	18.7	21.0	18.0	12.1	7.8
92.5°	42.0	33.7	42.0	50.3	52.4	74.3	103.5	118.1	103.7	74.9	53.3
95°	146.4	121.1	146.4	171.7	178.0	233.8	308.1	345.3	291.6	184.2	103.7
97.5°	350.8	302.8	350.8	398.8	410.9	446.1	493.2	516.6	427.2	248.2	114.0
100°	505.5	448.2	505.5	562.8	577.1	574.5	571.0	569.3	470.1	271.4	122.6
102.5°	657.6	608.5	657.6	706.7	718.9	674.0	614.1	584.2	483.5	282.2	131.1
105°	851.6	825.1	851.6	877.9	884.5	783.8	649.6	582.5	485.0	290.0	143.8
107.5°	978.5	984.9	978.5	972.2	970.5	830.1	643.0	549.4	463.4	291.5	162.5
110°	1027.0	1054.5	1027.0	999.6	992.7	835.8	626.4	521.8	444.3	289.3	173.0



TEST NUMBER: P934239

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1031.3	1073.5	1031.3	989.1	978.6	818.0	603.9	496.7	427.7	289.4	185.8
115°	1003.9	1062.5	1003.9	945.5	930.8	776.1	569.8	466.7	408.5	292.1	204.8
117.5°	946.0	1010.9	946.0	881.1	864.9	725.3	539.1	446.0	396.5	297.5	223.2
120°	899.2	962.3	899.2	836.2	820.4	692.9	522.7	437.7	392.4	301.9	234.0
122.5°	853.8	915.9	853.8	791.6	776.0	661.2	507.9	431.3	390.3	308.2	246.7
125°	788.8	846.1	788.8	731.5	717.2	619.7	489.5	424.4	388.6	316.8	263.0
127.5°	730.4	778.8	730.4	682.1	670.0	586.2	474.5	418.6	387.6	325.4	278.8
130°	696.1	740.7	696.1	651.4	640.3	565.7	466.1	416.4	388.1	331.6	289.2
132.5°	664.8	704.8	664.8	624.8	614.8	548.1	459.1	414.5	388.6	336.7	297.8
135°	622.1	656.5	622.1	587.6	579.0	523.1	448.5	411.2	388.2	342.2	307.7
137.5°	587.8	616.0	587.8	559.5	552.4	505.1	442.1	410.6	390.5	350.4	320.4
140°	564.1	590.6	564.1	537.8	531.2	490.4	436.0	408.7	391.0	355.5	328.9
142.5°	544.7	567.3	544.7	522.0	516.3	480.4	432.7	408.7	392.4	359.7	335.3
145°	515.5	532.6	515.5	498.3	494.0	464.6	425.5	406.0	392.4	365.3	345.0
147.5°	493.0	507.2	493.0	478.8	475.2	452.1	421.3	406.0	395.1	373.4	357.1
150°	478.9	490.4	478.9	467.3	464.4	445.0	419.0	406.0	396.5	377.7	363.5
152.5°	466.8	475.5	466.8	458.0	455.9	439.3	417.0	406.0	397.4	380.3	367.6
155°	452.9	458.6	452.9	447.1	445.7	432.5	414.8	406.0	399.4	386.4	376.7
157.5°	441.9	446.0	441.9	437.8	436.8	426.6	412.8	406.0	401.5	392.5	385.8
160°	435.3	437.7	435.3	433.0	432.5	423.6	411.9	406.0	402.4	395.3	389.9
162.5°	431.0	433.3	431.0	428.8	428.3	420.9	411.0	406.0	403.4	398.2	394.4
165°	424.9	427.2	424.9	422.6	421.9	416.6	409.5	406.0	404.8	402.5	400.7
167.5°	420.4	421.4	420.4	419.4	419.2	415.7	411.1	408.7	407.7	405.8	404.3
170°	419.2	419.2	419.2	419.2	419.2	415.7	411.1	408.7	408.6	408.6	408.5
172.5°	415.9	415.1	415.9	416.8	416.9	414.2	410.5	408.7	408.7	408.7	408.7
175°	413.9	413.9	413.9	413.9	413.9	412.2	409.9	408.7	409.3	410.4	411.2
177.5°	412.2	411.2	412.2	413.1	413.4	412.0	410.2	409.3	409.7	410.6	411.2
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



TEST NUMBER: P934239

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	962.6	957.2	957.2	948.2	944.7	942.0	937.4	924.0	920.4	916.8	922.2
5°	970.7	960.8	953.6	937.4	924.0	918.6	901.5	869.2	847.6	831.5	822.5
7.5°	972.5	959.9	946.4	921.3	889.0	874.6	822.5	763.3	747.1	732.8	723.7
10°	970.7	956.4	937.4	899.8	823.4	798.3	746.2	707.6	697.7	695.0	697.7
12.5°	964.4	950.9	924.9	862.0	755.2	738.1	707.6	685.2	683.3	687.9	712.0
15°	953.6	941.1	910.6	811.7	717.5	704.9	683.3	675.3	685.2	716.6	789.3
17.5°	942.9	928.5	890.7	762.4	688.7	679.7	664.5	680.6	736.3	778.5	802.7
20°	928.5	911.5	868.3	726.4	668.0	660.0	652.8	725.5	767.7	783.0	796.5
22.5°	911.5	893.4	837.8	701.3	646.5	640.3	644.7	750.7	767.7	778.5	790.2
25°	889.0	873.7	801.8	681.5	629.5	622.2	639.4	748.0	757.8	760.6	783.9
27.5°	868.3	848.5	764.2	663.6	608.9	606.1	643.8	736.3	743.6	746.2	771.3
30°	843.2	813.5	722.0	644.7	587.3	586.4	644.7	722.0	720.2	727.3	752.5
32.5°	817.1	761.5	674.4	621.4	566.6	565.7	638.5	700.4	698.7	708.5	727.3
35°	792.9	721.1	609.7	594.5	540.6	541.5	623.1	675.3	676.2	685.2	696.8
37.5°	767.7	686.1	538.8	564.8	515.4	515.4	602.5	651.9	650.1	652.8	669.0
40°	738.1	631.3	475.9	526.2	492.1	489.4	577.3	626.8	620.5	619.6	642.1
42.5°	706.7	571.1	429.3	475.1	465.1	461.6	546.8	596.3	584.6	587.3	616.0
45°	672.6	554.9	393.3	401.4	437.3	434.6	513.6	561.2	553.2	560.3	589.9
47.5°	638.5	522.6	381.6	333.1	407.7	406.8	476.8	527.1	522.6	529.8	561.2
50°	591.7	486.7	380.7	285.5	374.5	378.0	432.8	493.9	493.9	500.1	533.4
52.5°	531.6	442.7	345.7	258.6	335.8	346.6	394.2	465.1	466.9	473.3	502.8
55°	476.8	396.9	320.5	238.0	290.0	313.4	356.5	435.5	439.1	445.4	472.3
57.5°	426.5	330.4	315.2	213.7	247.9	270.3	323.3	406.8	408.6	414.0	440.0
60°	372.7	238.9	289.1	187.6	211.0	228.1	292.7	372.7	378.9	382.5	405.0
62.5°	311.6	173.3	262.2	169.7	193.1	196.6	267.6	340.4	348.4	351.1	364.5
65°	221.8	145.5	222.7	154.4	174.2	175.1	240.7	307.1	314.3	318.8	328.7
67.5°	150.0	118.5	169.7	140.1	159.9	160.8	214.6	268.5	278.4	282.0	288.2
70°	104.2	79.0	125.7	124.8	143.7	145.5	186.7	233.5	242.4	245.1	248.8
72.5°	76.3	63.7	104.2	112.2	126.6	128.4	158.1	194.0	203.0	205.7	207.4
75°	58.4	67.3	84.4	97.9	107.7	108.6	129.3	158.1	164.3	166.1	167.0
77.5°	46.7	62.8	61.9	79.0	88.0	86.2	101.5	122.1	127.5	127.5	127.5
80°	35.0	49.4	46.7	56.6	64.6	62.8	72.7	87.1	88.9	90.7	89.8
82.5°	26.1	31.4	31.4	35.9	43.1	41.3	48.5	56.6	56.6	56.6	58.4
85°	16.2	17.9	14.4	18.8	24.3	23.4	27.0	30.5	31.4	31.4	29.6
87.5°	9.9	8.1	4.5	7.1	10.8	10.8	12.6	13.5	12.6	12.6	12.6
90°	7.2	5.0	2.8	5.0	7.2	7.8	12.1	18.0	21.0	18.7	13.9
92.5°	48.6	29.8	11.1	29.8	48.6	53.3	74.9	103.7	118.1	103.5	74.3
95°	95.2	60.8	26.5	60.8	95.2	103.7	184.2	291.6	345.3	308.1	233.8
97.5°	106.4	76.1	45.8	76.1	106.4	114.0	248.2	427.2	516.6	493.2	446.1
100°	115.7	88.2	60.7	88.2	115.7	122.6	271.4	470.1	569.3	571.0	574.5
102.5°	124.7	99.1	73.4	99.1	124.7	131.1	282.2	483.5	584.2	614.1	674.0
105°	138.4	116.7	95.0	116.7	138.4	143.8	290.0	485.0	582.5	649.6	783.8
107.5°	157.5	137.3	117.0	137.3	157.5	162.5	291.5	463.4	549.4	643.0	830.1
110°	168.4	150.1	131.9	150.1	168.4	173.0	289.3	444.3	521.8	626.4	835.8



TEST NUMBER: P934239

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	181.4	164.0	146.6	164.0	181.4	185.8	289.4	427.7	496.7	603.9	818.0
115°	200.8	184.7	168.6	184.7	200.8	204.8	292.1	408.5	466.7	569.8	776.1
117.5°	219.6	205.0	190.4	205.0	219.6	223.2	297.5	396.5	446.0	539.1	725.3
120°	230.6	216.8	203.1	216.8	230.6	234.0	301.9	392.4	437.7	522.7	692.9
122.5°	243.2	229.4	215.6	229.4	243.2	246.7	308.2	390.3	431.3	507.9	661.2
125°	259.8	247.2	234.6	247.2	259.8	263.0	316.8	388.6	424.4	489.5	619.7
127.5°	275.6	262.8	250.0	262.8	275.6	278.8	325.4	387.6	418.6	474.5	586.2
130°	285.8	272.1	258.3	272.1	285.8	289.2	331.6	388.1	416.4	466.1	565.7
132.5°	294.4	280.6	266.9	280.6	294.4	297.8	336.7	388.6	414.5	459.1	548.1
135°	304.6	292.1	279.6	292.1	304.6	307.7	342.2	388.2	411.2	448.5	523.1
137.5°	317.2	304.9	292.5	304.9	317.2	320.4	350.4	390.5	410.6	442.1	505.1
140°	326.1	314.7	303.3	314.7	326.1	328.9	355.5	391.0	408.7	436.0	490.4
142.5°	332.6	322.1	311.5	322.1	332.6	335.3	359.7	392.4	408.7	432.7	480.4
145°	342.7	333.5	324.3	333.5	342.7	345.0	365.3	392.4	406.0	425.5	464.6
147.5°	354.9	345.9	337.0	345.9	354.9	357.1	373.4	395.1	406.0	421.3	452.1
150°	361.4	353.4	345.3	353.4	361.4	363.5	377.7	396.5	406.0	419.0	445.0
152.5°	366.1	359.9	353.7	359.9	366.1	367.6	380.3	397.4	406.0	417.0	439.3
155°	375.5	371.1	366.5	371.1	375.5	376.7	386.4	399.4	406.0	414.8	432.5
157.5°	384.7	380.3	375.9	380.3	384.7	385.8	392.5	401.5	406.0	412.8	426.6
160°	389.0	385.6	382.2	385.6	389.0	389.9	395.3	402.4	406.0	411.9	423.6
162.5°	393.7	391.1	388.6	391.1	393.7	394.4	398.2	403.4	406.0	411.0	420.9
165°	400.1	397.8	395.4	397.8	400.1	400.7	402.5	404.8	406.0	409.5	416.6
167.5°	404.0	402.8	401.8	402.8	404.0	404.3	405.8	407.7	408.7	411.1	415.7
170°	408.2	407.0	406.0	407.0	408.2	408.5	408.6	408.6	408.7	411.1	415.7
172.5°	408.6	408.5	408.2	408.5	408.6	408.7	408.7	408.7	408.7	410.5	414.2
175°	411.2	411.2	411.2	411.2	411.2	411.2	410.4	409.3	408.7	409.9	412.2
177.5°	411.2	411.2	411.2	411.2	411.2	411.2	410.6	409.7	409.3	410.2	412.0
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



TEST NUMBER: P934239

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	915.9	913.2	916.8	906.9	916.8	913.2	915.9	922.2	916.8	920.4	924.0
5°	803.7	799.2	784.8	773.1	784.8	799.2	803.7	822.5	831.5	847.6	869.2
7.5°	718.4	714.8	711.2	704.0	711.2	714.8	718.4	723.7	732.8	747.1	763.3
10°	699.5	700.4	705.8	704.9	705.8	700.4	699.5	697.7	695.0	697.7	707.6
12.5°	748.0	756.0	785.7	783.9	785.7	756.0	748.0	712.0	687.9	683.3	685.2
15°	803.7	806.4	812.6	813.5	812.6	806.4	803.7	789.3	716.6	685.2	675.3
17.5°	809.1	810.0	814.4	814.4	814.4	810.0	809.1	802.7	778.5	736.3	680.6
20°	804.6	806.4	815.3	817.1	815.3	806.4	804.6	796.5	783.0	767.7	725.5
22.5°	802.7	806.4	813.5	812.6	813.5	806.4	802.7	790.2	778.5	767.7	750.7
25°	793.8	793.8	794.7	795.6	794.7	793.8	793.8	783.9	760.6	757.8	748.0
27.5°	775.0	776.8	782.1	781.2	782.1	776.8	775.0	771.3	746.2	743.6	736.3
30°	757.8	756.0	751.6	748.0	751.6	756.0	757.8	752.5	727.3	720.2	722.0
32.5°	729.2	724.6	720.2	717.5	720.2	724.6	729.2	727.3	708.5	698.7	700.4
35°	695.0	695.9	695.0	692.3	695.0	695.9	695.0	696.8	685.2	676.2	675.3
37.5°	670.8	672.6	671.7	668.0	671.7	672.6	670.8	669.0	652.8	650.1	651.9
40°	645.6	646.5	645.6	643.0	645.6	646.5	645.6	642.1	619.6	620.5	626.8
42.5°	621.4	620.5	617.8	616.0	617.8	620.5	621.4	616.0	587.3	584.6	596.3
45°	593.6	594.5	589.0	586.4	589.0	594.5	593.6	589.9	560.3	553.2	561.2
47.5°	565.7	565.7	561.2	558.5	561.2	565.7	565.7	561.2	529.8	522.6	527.1
50°	536.1	535.2	528.9	528.0	528.9	535.2	536.1	533.4	500.1	493.9	493.9
52.5°	501.9	501.9	502.8	504.7	502.8	501.9	501.9	502.8	473.3	466.9	465.1
55°	472.3	473.3	479.5	481.3	479.5	473.3	472.3	472.3	445.4	439.1	435.5
57.5°	441.8	441.8	446.3	446.3	446.3	441.8	441.8	440.0	414.0	408.6	406.8
60°	406.8	408.6	412.1	411.2	412.1	408.6	406.8	405.0	382.5	378.9	372.7
62.5°	370.0	371.8	372.7	370.9	372.7	371.8	370.0	364.5	351.1	348.4	340.4
65°	331.3	333.1	334.0	332.2	334.0	333.1	331.3	328.7	318.8	314.3	307.1
67.5°	291.8	290.9	290.0	293.7	290.0	290.9	291.8	288.2	282.0	278.4	268.5
70°	251.5	251.5	250.6	252.3	250.6	251.5	251.5	248.8	245.1	242.4	233.5
72.5°	208.3	207.4	211.0	208.3	211.0	207.4	208.3	207.4	205.7	203.0	194.0
75°	166.1	167.9	166.1	168.8	166.1	167.9	166.1	167.0	166.1	164.3	158.1
77.5°	126.6	128.4	126.6	126.6	126.6	128.4	126.6	127.5	127.5	127.5	122.1
80°	89.8	88.9	88.9	88.0	88.9	88.9	89.8	89.8	90.7	88.9	87.1
82.5°	57.5	56.6	56.6	58.4	56.6	56.6	57.5	58.4	56.6	56.6	56.6
85°	31.4	32.3	30.5	30.5	30.5	32.3	31.4	29.6	31.4	31.4	30.5
87.5°	11.7	10.8	10.8	10.8	10.8	10.8	11.7	12.6	12.6	12.6	13.5
90°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	13.9	18.7	21.0	18.0
92.5°	52.4	50.3	42.0	33.7	42.0	50.3	52.4	74.3	103.5	118.1	103.7
95°	178.0	171.7	146.4	121.1	146.4	171.7	178.0	233.8	308.1	345.3	291.6
97.5°	410.9	398.8	350.8	302.8	350.8	398.8	410.9	446.1	493.2	516.6	427.2
100°	577.1	562.8	505.5	448.2	505.5	562.8	577.1	574.5	571.0	569.3	470.1
102.5°	718.9	706.7	657.6	608.5	657.6	706.7	718.9	674.0	614.1	584.2	483.5
105°	884.5	877.9	851.6	825.1	851.6	877.9	884.5	783.8	649.6	582.5	485.0
107.5°	970.5	972.2	978.5	984.9	978.5	972.2	970.5	830.1	643.0	549.4	463.4
110°	992.7	999.6	1027.0	1054.5	1027.0	999.6	992.7	835.8	626.4	521.8	444.3



TEST NUMBER: P934239

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	978.6	989.1	1031.3	1073.5	1031.3	989.1	978.6	818.0	603.9	496.7	427.7
115°	930.8	945.5	1003.9	1062.5	1003.9	945.5	930.8	776.1	569.8	466.7	408.5
117.5°	864.9	881.1	946.0	1010.9	946.0	881.1	864.9	725.3	539.1	446.0	396.5
120°	820.4	836.2	899.2	962.3	899.2	836.2	820.4	692.9	522.7	437.7	392.4
122.5°	776.0	791.6	853.8	915.9	853.8	791.6	776.0	661.2	507.9	431.3	390.3
125°	717.2	731.5	788.8	846.1	788.8	731.5	717.2	619.7	489.5	424.4	388.6
127.5°	670.0	682.1	730.4	778.8	730.4	682.1	670.0	586.2	474.5	418.6	387.6
130°	640.3	651.4	696.1	740.7	696.1	651.4	640.3	565.7	466.1	416.4	388.1
132.5°	614.8	624.8	664.8	704.8	664.8	624.8	614.8	548.1	459.1	414.5	388.6
135°	579.0	587.6	622.1	656.5	622.1	587.6	579.0	523.1	448.5	411.2	388.2
137.5°	552.4	559.5	587.8	616.0	587.8	559.5	552.4	505.1	442.1	410.6	390.5
140°	531.2	537.8	564.1	590.6	564.1	537.8	531.2	490.4	436.0	408.7	391.0
142.5°	516.3	522.0	544.7	567.3	544.7	522.0	516.3	480.4	432.7	408.7	392.4
145°	494.0	498.3	515.5	532.6	515.5	498.3	494.0	464.6	425.5	406.0	392.4
147.5°	475.2	478.8	493.0	507.2	493.0	478.8	475.2	452.1	421.3	406.0	395.1
150°	464.4	467.3	478.9	490.4	478.9	467.3	464.4	445.0	419.0	406.0	396.5
152.5°	455.9	458.0	466.8	475.5	466.8	458.0	455.9	439.3	417.0	406.0	397.4
155°	445.7	447.1	452.9	458.6	452.9	447.1	445.7	432.5	414.8	406.0	399.4
157.5°	436.8	437.8	441.9	446.0	441.9	437.8	436.8	426.6	412.8	406.0	401.5
160°	432.5	433.0	435.3	437.7	435.3	433.0	432.5	423.6	411.9	406.0	402.4
162.5°	428.3	428.8	431.0	433.3	431.0	428.8	428.3	420.9	411.0	406.0	403.4
165°	421.9	422.6	424.9	427.2	424.9	422.6	421.9	416.6	409.5	406.0	404.8
167.5°	419.2	419.4	420.4	421.4	420.4	419.4	419.2	415.7	411.1	408.7	407.7
170°	419.2	419.2	419.2	419.2	419.2	419.2	419.2	415.7	411.1	408.7	408.6
172.5°	416.9	416.8	415.9	415.1	415.9	416.8	416.9	414.2	410.5	408.7	408.7
175°	413.9	413.9	413.9	413.9	413.9	413.9	413.9	412.2	409.9	408.7	409.3
177.5°	413.4	413.1	412.2	411.2	412.2	413.1	413.4	412.0	410.2	409.3	409.7
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



TEST NUMBER: P934239

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	949.1	949.1	949.1	949.1	949.1
2.5°	937.4	942.0	944.7	948.2	957.2
5°	901.5	918.6	924.0	937.4	953.6
7.5°	822.5	874.6	889.0	921.3	946.4
10°	746.2	798.3	823.4	899.8	937.4
12.5°	707.6	738.1	755.2	862.0	924.9
15°	683.3	704.9	717.5	811.7	910.6
17.5°	664.5	679.7	688.7	762.4	890.7
20°	652.8	660.0	668.0	726.4	868.3
22.5°	644.7	640.3	646.5	701.3	837.8
25°	639.4	622.2	629.5	681.5	801.8
27.5°	643.8	606.1	608.9	663.6	764.2
30°	644.7	586.4	587.3	644.7	722.0
32.5°	638.5	565.7	566.6	621.4	674.4
35°	623.1	541.5	540.6	594.5	609.7
37.5°	602.5	515.4	515.4	564.8	538.8
40°	577.3	489.4	492.1	526.2	475.9
42.5°	546.8	461.6	465.1	475.1	429.3
45°	513.6	434.6	437.3	401.4	393.3
47.5°	476.8	406.8	407.7	333.1	381.6
50°	432.8	378.0	374.5	285.5	380.7
52.5°	394.2	346.6	335.8	258.6	345.7
55°	356.5	313.4	290.0	238.0	320.5
57.5°	323.3	270.3	247.9	213.7	315.2
60°	292.7	228.1	211.0	187.6	289.1
62.5°	267.6	196.6	193.1	169.7	262.2
65°	240.7	175.1	174.2	154.4	222.7
67.5°	214.6	160.8	159.9	140.1	169.7
70°	186.7	145.5	143.7	124.8	125.7
72.5°	158.1	128.4	126.6	112.2	104.2
75°	129.3	108.6	107.7	97.9	84.4
77.5°	101.5	86.2	88.0	79.0	61.9
80°	72.7	62.8	64.6	56.6	46.7
82.5°	48.5	41.3	43.1	35.9	31.4
85°	27.0	23.4	24.3	18.8	14.4
87.5°	12.6	10.8	10.8	7.1	4.5
90°	12.1	7.8	7.2	5.0	2.8
92.5°	74.9	53.3	48.6	29.8	11.1
95°	184.2	103.7	95.2	60.8	26.5
97.5°	248.2	114.0	106.4	76.1	45.8
100°	271.4	122.6	115.7	88.2	60.7
102.5°	282.2	131.1	124.7	99.1	73.4
105°	290.0	143.8	138.4	116.7	95.0
107.5°	291.5	162.5	157.5	137.3	117.0
110°	289.3	173.0	168.4	150.1	131.9



TEST NUMBER: P934239

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	289.4	185.8	181.4	164.0	146.6
115°	292.1	204.8	200.8	184.7	168.6
117.5°	297.5	223.2	219.6	205.0	190.4
120°	301.9	234.0	230.6	216.8	203.1
122.5°	308.2	246.7	243.2	229.4	215.6
125°	316.8	263.0	259.8	247.2	234.6
127.5°	325.4	278.8	275.6	262.8	250.0
130°	331.6	289.2	285.8	272.1	258.3
132.5°	336.7	297.8	294.4	280.6	266.9
135°	342.2	307.7	304.6	292.1	279.6
137.5°	350.4	320.4	317.2	304.9	292.5
140°	355.5	328.9	326.1	314.7	303.3
142.5°	359.7	335.3	332.6	322.1	311.5
145°	365.3	345.0	342.7	333.5	324.3
147.5°	373.4	357.1	354.9	345.9	337.0
150°	377.7	363.5	361.4	353.4	345.3
152.5°	380.3	367.6	366.1	359.9	353.7
155°	386.4	376.7	375.5	371.1	366.5
157.5°	392.5	385.8	384.7	380.3	375.9
160°	395.3	389.9	389.0	385.6	382.2
162.5°	398.2	394.4	393.7	391.1	388.6
165°	402.5	400.7	400.1	397.8	395.4
167.5°	405.8	404.3	404.0	402.8	401.8
170°	408.6	408.5	408.2	407.0	406.0
172.5°	408.7	408.7	408.6	408.5	408.2
175°	410.4	411.2	411.2	411.2	411.2
177.5°	410.6	411.2	411.2	411.2	411.2
180°	411.2	411.2	411.2	411.2	411.2



TEST NUMBER: P934239

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-6-3500K

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	10.77	11.61	11.74	12.60	13.90	13.59	14.43	14.56	15.42	16.72
	3H	11.24	12.00	12.23	13.00	14.32	14.93	15.69	15.92	16.69	18.01
	4H	11.43	12.15	12.43	13.15	14.48	15.38	16.09	16.37	17.09	18.42
	6H	11.55	12.21	12.56	13.21	14.56	15.66	16.32	16.67	17.32	18.66
	8H	11.55	12.18	12.57	13.20	14.54	15.73	16.36	16.75	17.38	18.72
	12H	11.52	12.12	12.54	13.13	14.50	15.77	16.36	16.79	17.38	18.74
4H	2H	11.80	12.51	12.80	13.51	14.84	14.00	14.71	15.00	15.71	17.04
	3H	12.82	13.42	13.83	14.45	15.79	15.50	16.10	16.51	17.13	18.47
	4H	13.10	13.64	14.12	14.66	16.03	16.03	16.57	17.05	17.59	18.96
	6H	13.22	13.69	14.25	14.73	16.10	16.39	16.86	17.42	17.90	19.27
	8H	13.23	13.66	14.26	14.70	16.08	16.50	16.93	17.53	17.97	19.35
	12H	13.19	13.59	14.24	14.64	16.02	16.55	16.95	17.60	18.00	19.38
8H	4H	13.55	13.99	14.58	15.02	16.40	16.15	16.59	17.18	17.63	19.00
	6H	13.81	14.17	14.87	15.25	16.63	16.58	16.95	17.64	18.03	19.40
	8H	13.85	14.17	14.92	15.23	16.63	16.74	17.05	17.80	18.12	19.51
	12H	13.83	14.11	14.90	15.17	16.61	16.83	17.11	17.90	18.17	19.61
12H	4H	13.55	13.95	14.60	15.00	16.38	16.11	16.51	17.17	17.56	18.95
	6H	13.87	14.19	14.93	15.25	16.65	16.58	16.90	17.65	17.96	19.36
	8H	13.93	14.22	15.00	15.27	16.71	16.74	17.02	17.81	18.08	19.52