

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: P934386

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

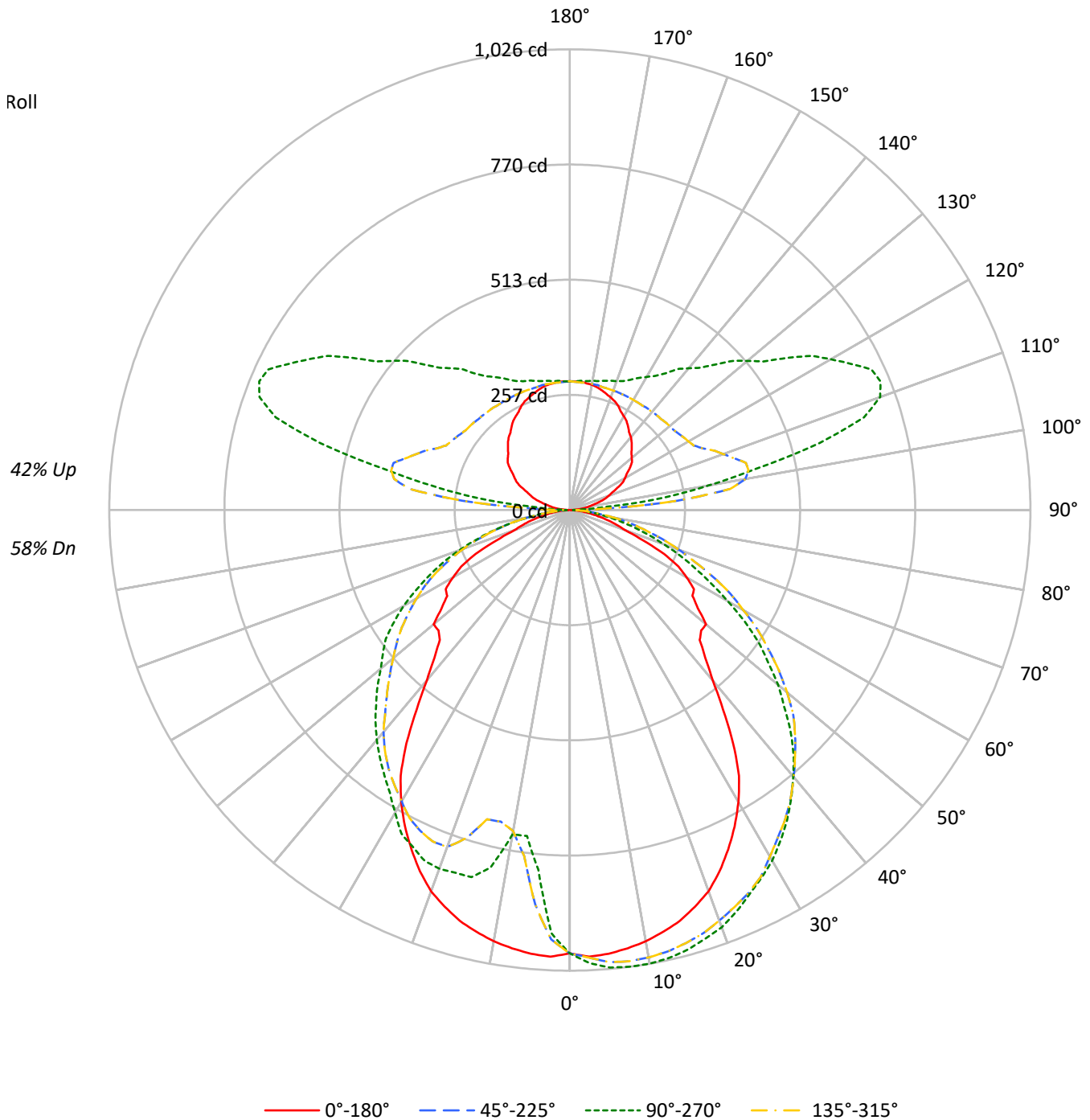
Test Method: LM-79-2019  
Report Number: P934386  
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4420.6 lumens  
Efficiency: N/A  
Efficacy: 121.4 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-B2750-1D-UNV-STD-W-4-5000K

### 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
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°	9161	9161	9161	9161
5°	9220	9249	9220	7272
10°	9148	9111	9148	6513
15°	9039	8914	9039	7442
20°	8839	8679	8839	7458
25°	8443	8338	8443	7300
30°	7932	8055	7932	6953
35°	7062	7697	7062	6572
40°	5874	7275	5874	6283
45°	5239	6782	5239	5952
50°	5553	6193	5553	5620
55°	5209	5560	5209	5427
60°	5349	4722	5349	4972
65°	4826	3903	4826	4364
70°	3321	3110	3321	3657
75°	2879	2298	2879	2753
80°	2275	1521	2275	1654
85°	1234	806	1234	685

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8044 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	2.0
10°-20°	253.1	5.7
20°-30°	391.2	8.8
30°-40°	467.0	10.6
40°-50°	469.7	10.6
50°-60°	408.7	9.2
60°-70°	289.8	6.6
70°-80°	153.3	3.5
80°-90°	39.3	0.9
90°-100°	139.8	3.2
100°-110°	367.6	8.3
110°-120°	381.1	8.6
120°-130°	305.7	6.9
130°-140°	239.9	5.4
140°-150°	184.1	4.2
150°-160°	132.6	3.0
160°-170°	81.1	1.8
170°-180°	27.4	0.6
0°-30°	733.4	16.6
0°-40°	1200.3	27.2
0°-60°	2078.8	47.0
0°-90°	2561.2	57.9
90°-120°	888.5	20.1
90°-150°	1618.3	36.6
90°-180°	1859.0	42.1
0°-180°	4420.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	987	987	987	987	987	
5°	992	1023	992	804	992	94
15°	947	1014	947	846	947	267
25°	834	945	834	828	834	383
35°	634	844	634	720	634	392
45°	409	695	409	610	409	328
55°	334	513	334	501	334	306
65°	232	309	232	346	232	221
75°	88	147	88	176	88	92
85°	15	37	15	32	15	20
90°	2	7	2	7	2	2
95°	18	84	18	84	18	21
105°	66	576	66	576	66	70
115°	118	741	118	741	118	116
125°	164	590	164	590	164	145
135°	195	458	195	458	195	151
145°	226	372	226	372	226	142
155°	256	320	256	320	256	117
165°	276	298	276	298	276	78
175°	287	289	287	289	287	27
180°	287	287	287	287	287	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	995.7	995.7	1001.4	1003.3	1003.3	1000.5	997.7	1000.5	1008.9	1011.7	1010.8
5°	992.0	999.6	1009.8	1011.7	1013.6	1012.6	1010.8	1012.6	1022.0	1023.9	1024.8
7.5°	984.5	998.6	1011.7	1014.5	1017.3	1014.5	1013.6	1015.4	1024.8	1026.7	1026.7
10°	975.2	994.8	1009.8	1011.7	1014.5	1011.7	1011.7	1015.4	1024.8	1026.7	1027.6
12.5°	962.1	989.2	1003.3	1005.2	1008.9	1008.0	1007.0	1010.8	1020.1	1022.0	1022.0
15°	947.2	978.9	992.0	993.9	1000.5	998.6	998.6	1002.4	1012.6	1015.4	1014.5
17.5°	926.6	965.8	980.8	983.6	988.3	987.3	988.3	992.0	1001.4	1003.3	1004.2
20°	903.3	948.1	965.8	968.7	973.3	973.3	973.3	978.0	987.3	991.1	991.1
22.5°	871.5	929.4	948.1	950.0	955.6	955.6	957.4	964.0	972.4	973.3	973.3
25°	834.2	908.9	924.8	930.4	936.0	938.8	941.6	945.3	948.1	947.2	948.1
27.5°	794.9	882.7	903.3	907.0	914.5	917.3	921.0	922.0	922.9	925.7	923.8
30°	751.0	846.3	877.1	880.9	893.0	894.9	891.1	893.0	897.7	899.5	901.4
32.5°	701.5	792.1	850.0	858.4	869.6	864.0	863.1	865.9	873.4	873.4	875.3
35°	634.3	750.1	824.8	832.3	840.7	834.2	837.9	838.8	843.5	846.3	845.4
37.5°	560.5	713.7	798.7	804.3	810.8	802.4	808.0	810.8	814.5	812.7	812.7
40°	495.1	656.7	767.8	771.6	777.2	770.6	776.2	778.1	780.0	778.1	777.2
42.5°	446.5	594.1	735.2	739.8	736.1	740.8	742.6	746.4	743.6	739.8	739.8
45°	409.2	577.3	699.7	705.3	699.7	707.1	709.9	709.9	701.5	699.7	698.7
47.5°	397.0	543.7	664.2	664.2	661.4	670.7	675.4	668.8	660.4	657.6	657.6
50°	396.1	506.3	615.6	611.9	624.9	636.1	631.5	624.9	618.4	608.1	608.1
52.5°	359.7	460.6	553.0	567.0	587.6	594.1	586.6	580.1	568.9	564.2	560.5
55°	333.5	412.9	496.0	524.1	545.5	554.0	539.9	533.4	516.6	513.8	511.9
57.5°	327.8	343.8	443.7	479.2	505.4	504.5	496.0	483.9	469.9	467.1	466.2
60°	300.7	248.4	387.7	429.7	456.8	454.0	446.5	435.3	422.3	420.4	418.5
62.5°	272.7	180.3	324.1	371.8	410.1	409.2	402.6	385.8	376.5	371.8	368.1
65°	231.6	151.3	230.7	309.2	364.4	366.2	352.2	340.1	329.7	324.1	323.2
67.5°	176.5	123.3	156.0	257.8	320.4	318.5	300.7	295.1	282.1	279.3	273.7
70°	130.8	82.2	108.3	209.2	277.4	272.7	258.7	252.2	240.0	233.5	229.8
72.5°	108.3	66.3	79.4	162.5	233.5	227.9	215.8	208.3	198.0	192.4	188.7
75°	87.8	70.0	60.7	120.5	189.6	185.9	174.7	167.2	158.8	151.3	152.2
77.5°	64.4	65.4	48.6	88.7	150.4	144.8	138.2	128.9	125.2	117.7	117.7
80°	48.6	51.4	36.4	60.7	108.3	108.3	102.7	96.2	89.7	85.9	85.9
82.5°	32.7	32.7	27.1	38.3	73.8	71.0	67.2	65.4	61.6	59.8	59.8
85°	14.9	18.7	16.8	23.4	40.2	42.0	42.0	40.2	39.2	37.4	38.3
87.5°	4.7	8.4	10.3	13.1	20.5	21.5	22.4	22.4	22.4	23.4	23.4
90°	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7	7.3	7.3
92.5°	7.7	20.7	33.9	37.2	52.2	72.3	82.4	72.2	51.8	36.6	35.1
95°	18.5	42.4	66.4	72.4	128.5	203.3	240.8	214.8	163.0	124.1	119.7
97.5°	31.9	53.1	74.2	79.5	173.1	297.9	360.3	344.0	311.2	286.6	278.2
100°	42.3	61.5	80.7	85.5	189.3	327.8	397.1	398.4	400.8	402.6	392.6
102.5°	51.2	69.1	87.0	91.4	196.8	337.3	407.5	428.4	470.2	501.5	492.9
105°	66.2	81.4	96.5	100.3	202.3	338.4	406.4	453.2	546.8	617.0	612.4
107.5°	81.6	95.7	109.8	113.4	203.3	323.4	383.3	448.6	579.2	677.1	678.2
110°	92.0	104.7	117.5	120.7	201.8	310.0	364.1	437.0	583.0	692.5	697.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	102.2	114.3	126.5	129.5	201.8	298.3	346.5	421.2	570.6	682.7	690.0
115°	117.6	128.8	140.0	142.8	203.7	284.9	325.5	397.4	541.3	649.3	659.5
117.5°	132.8	143.0	153.2	155.7	207.5	276.6	311.1	376.0	505.9	603.3	614.6
120°	141.7	151.3	160.8	163.3	210.6	273.8	305.3	364.6	483.3	572.4	583.4
122.5°	150.4	160.1	169.7	172.1	215.0	272.3	300.8	354.3	461.2	541.3	552.2
125°	163.6	172.4	181.2	183.4	221.0	271.0	296.1	341.5	432.3	500.3	510.3
127.5°	174.4	183.3	192.2	194.5	227.0	270.4	292.1	331.0	408.9	467.4	475.8
130°	180.2	189.8	199.3	201.7	231.4	270.8	290.5	325.2	394.6	446.6	454.4
132.5°	186.1	195.8	205.3	207.7	234.9	271.0	289.2	320.2	382.3	428.9	435.9
135°	195.0	203.7	212.5	214.6	238.7	270.8	286.8	312.8	364.8	403.9	409.8
137.5°	204.1	212.7	221.4	223.5	244.5	272.4	286.5	308.4	352.4	385.4	390.3
140°	211.6	219.5	227.5	229.5	248.0	272.7	285.1	304.1	342.1	370.6	375.2
142.5°	217.3	224.7	232.0	233.9	251.0	273.7	285.1	301.8	335.1	360.2	364.1
145°	226.2	232.6	239.0	240.6	254.8	273.8	283.2	296.8	324.1	344.6	347.5
147.5°	235.1	241.3	247.5	249.1	260.5	275.6	283.2	293.9	315.4	331.5	334.0
150°	240.8	246.4	252.1	253.5	263.4	276.6	283.2	292.2	310.4	324.0	326.1
152.5°	246.8	251.1	255.4	256.4	265.3	277.2	283.2	290.9	306.4	318.0	319.5
155°	255.6	258.8	262.0	262.7	269.6	278.6	283.2	289.4	301.7	310.9	312.0
157.5°	262.2	265.3	268.3	269.1	273.8	280.0	283.2	288.0	297.6	304.8	305.5
160°	266.7	269.0	271.4	272.0	275.7	280.7	283.2	287.3	295.5	301.7	302.1
162.5°	271.0	272.8	274.6	275.1	277.8	281.4	283.2	286.6	293.6	298.8	299.2
165°	275.9	277.5	279.2	279.5	280.8	282.3	283.2	285.6	290.6	294.3	294.7
167.5°	280.3	281.0	281.8	282.0	283.0	284.4	285.1	286.7	290.0	292.4	292.6
170°	283.2	283.9	284.7	284.9	285.0	285.1	285.1	286.7	290.0	292.4	292.4
172.5°	284.7	284.9	285.1	285.1	285.1	285.1	285.1	286.4	288.9	290.8	290.7
175°	286.8	286.8	286.8	286.8	286.3	285.4	285.1	285.9	287.6	288.8	288.8
177.5°	286.8	286.8	286.8	286.8	286.4	285.8	285.5	286.2	287.5	288.4	288.2
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	1012.6	1009.8	1012.6	1010.8	1011.7	1008.9	1000.5	997.7	1000.5	1003.3	1003.3
5°	1024.8	1022.9	1024.8	1024.8	1023.9	1022.0	1012.6	1010.8	1012.6	1013.6	1011.7
7.5°	1028.5	1025.7	1028.5	1026.7	1026.7	1024.8	1015.4	1013.6	1014.5	1017.3	1014.5
10°	1028.5	1025.7	1028.5	1027.6	1026.7	1024.8	1015.4	1011.7	1011.7	1014.5	1011.7
12.5°	1023.9	1022.0	1023.9	1022.0	1022.0	1020.1	1010.8	1007.0	1008.0	1008.9	1005.2
15°	1016.4	1013.6	1016.4	1014.5	1015.4	1012.6	1002.4	998.6	998.6	1000.5	993.9
17.5°	1005.2	1001.4	1005.2	1004.2	1003.3	1001.4	992.0	988.3	987.3	988.3	983.6
20°	992.0	989.2	992.0	991.1	991.1	987.3	978.0	973.3	973.3	973.3	968.7
22.5°	971.5	968.7	971.5	973.3	973.3	972.4	964.0	957.4	955.6	955.6	950.0
25°	948.1	945.3	948.1	948.1	947.2	948.1	945.3	941.6	938.8	936.0	930.4
27.5°	925.7	923.8	925.7	923.8	925.7	922.9	922.0	921.0	917.3	914.5	907.0
30°	903.3	901.4	903.3	901.4	899.5	897.7	893.0	891.1	894.9	893.0	880.9
32.5°	875.3	873.4	875.3	875.3	873.4	873.4	865.9	863.1	864.0	869.6	858.4
35°	846.3	843.5	846.3	845.4	846.3	843.5	838.8	837.9	834.2	840.7	832.3
37.5°	812.7	809.9	812.7	812.7	812.7	814.5	810.8	808.0	802.4	810.8	804.3
40°	778.1	774.4	778.1	777.2	778.1	780.0	778.1	776.2	770.6	777.2	771.6
42.5°	738.9	738.0	738.9	739.8	739.8	743.6	746.4	742.6	740.8	736.1	739.8
45°	696.9	695.0	696.9	698.7	699.7	701.5	709.9	709.9	707.1	699.7	705.3
47.5°	652.0	647.4	652.0	657.6	657.6	660.4	668.8	675.4	670.7	661.4	664.2
50°	604.4	605.3	604.4	608.1	608.1	618.4	624.9	631.5	636.1	624.9	611.9
52.5°	557.7	556.8	557.7	560.5	564.2	568.9	580.1	586.6	594.1	587.6	567.0
55°	511.0	512.9	511.0	511.9	513.8	516.6	533.4	539.9	554.0	545.5	524.1
57.5°	464.3	461.5	464.3	466.2	467.1	469.9	483.9	496.0	504.5	505.4	479.2
60°	410.1	406.4	410.1	418.5	420.4	422.3	435.3	446.5	454.0	456.8	429.7
62.5°	362.5	355.9	362.5	368.1	371.8	376.5	385.8	402.6	409.2	410.1	371.8
65°	312.0	309.2	312.0	323.2	324.1	329.7	340.1	352.2	366.2	364.4	309.2
67.5°	266.2	266.2	266.2	273.7	279.3	282.1	295.1	300.7	318.5	320.4	257.8
70°	224.2	223.2	224.2	229.8	233.5	240.0	252.2	258.7	272.7	277.4	209.2
72.5°	184.0	183.1	184.0	188.7	192.4	198.0	208.3	215.8	227.9	233.5	162.5
75°	148.5	146.6	148.5	152.2	151.3	158.8	167.2	174.7	185.9	189.6	120.5
77.5°	113.9	113.9	113.9	117.7	117.7	125.2	128.9	138.2	144.8	150.4	88.7
80°	85.0	84.1	85.0	85.9	85.9	89.7	96.2	102.7	108.3	108.3	60.7
82.5°	59.8	57.9	59.8	59.8	59.8	61.6	65.4	67.2	71.0	73.8	38.3
85°	37.4	37.4	37.4	38.3	37.4	39.2	40.2	42.0	42.0	40.2	23.4
87.5°	24.3	23.4	24.3	23.4	23.4	22.4	22.4	22.4	21.5	20.5	13.1
90°	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6	8.5	5.4
92.5°	29.3	23.4	29.3	35.1	36.6	51.8	72.2	82.4	72.3	52.2	37.2
95°	102.1	84.5	102.1	119.7	124.1	163.0	214.8	240.8	203.3	128.5	72.4
97.5°	244.7	211.2	244.7	278.2	286.6	311.2	344.0	360.3	297.9	173.1	79.5
100°	352.6	312.6	352.6	392.6	402.6	400.8	398.4	397.1	327.8	189.3	85.5
102.5°	458.7	424.5	458.7	492.9	501.5	470.2	428.4	407.5	337.3	196.8	91.4
105°	594.0	575.6	594.0	612.4	617.0	546.8	453.2	406.4	338.4	202.3	100.3
107.5°	682.6	687.1	682.6	678.2	677.1	579.2	448.6	383.3	323.4	203.3	113.4
110°	716.4	735.5	716.4	697.2	692.5	583.0	437.0	364.1	310.0	201.8	120.7





TEST NUMBER: P934386

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	719.5	748.9	719.5	690.0	682.7	570.6	421.2	346.5	298.3	201.8	129.5
115°	700.3	741.1	700.3	659.5	649.3	541.3	397.4	325.5	284.9	203.7	142.8
117.5°	659.9	705.2	659.9	614.6	603.3	505.9	376.0	311.1	276.6	207.5	155.7
120°	627.3	671.3	627.3	583.4	572.4	483.3	364.6	305.3	273.8	210.6	163.3
122.5°	595.6	638.9	595.6	552.2	541.3	461.2	354.3	300.8	272.3	215.0	172.1
125°	550.2	590.2	550.2	510.3	500.3	432.3	341.5	296.1	271.0	221.0	183.4
127.5°	509.5	543.2	509.5	475.8	467.4	408.9	331.0	292.1	270.4	227.0	194.5
130°	485.6	516.7	485.6	454.4	446.6	394.6	325.2	290.5	270.8	231.4	201.7
132.5°	463.7	491.7	463.7	435.9	428.9	382.3	320.2	289.2	271.0	234.9	207.7
135°	433.9	457.9	433.9	409.8	403.9	364.8	312.8	286.8	270.8	238.7	214.6
137.5°	409.9	429.6	409.9	390.3	385.4	352.4	308.4	286.5	272.4	244.5	223.5
140°	393.6	412.0	393.6	375.2	370.6	342.1	304.1	285.1	272.7	248.0	229.5
142.5°	380.0	395.8	380.0	364.1	360.2	335.1	301.8	285.1	273.7	251.0	233.9
145°	359.6	371.5	359.6	347.5	344.6	324.1	296.8	283.2	273.8	254.8	240.6
147.5°	343.9	353.8	343.9	334.0	331.5	315.4	293.9	283.2	275.6	260.5	249.1
150°	334.1	342.1	334.1	326.1	324.0	310.4	292.2	283.2	276.6	263.4	253.5
152.5°	325.6	331.7	325.6	319.5	318.0	306.4	290.9	283.2	277.2	265.3	256.4
155°	316.0	320.0	316.0	312.0	310.9	301.7	289.4	283.2	278.6	269.6	262.7
157.5°	308.3	311.1	308.3	305.5	304.8	297.6	288.0	283.2	280.0	273.8	269.1
160°	303.7	305.3	303.7	302.1	301.7	295.5	287.3	283.2	280.7	275.7	272.0
162.5°	300.7	302.2	300.7	299.2	298.8	293.6	286.6	283.2	281.4	277.8	275.1
165°	296.4	298.0	296.4	294.7	294.3	290.6	285.6	283.2	282.3	280.8	279.5
167.5°	293.3	293.9	293.3	292.6	292.4	290.0	286.7	285.1	284.4	283.0	282.0
170°	292.4	292.4	292.4	292.4	292.4	290.0	286.7	285.1	285.1	285.0	284.9
172.5°	290.1	289.5	290.1	290.7	290.8	288.9	286.4	285.1	285.1	285.1	285.1
175°	288.8	288.8	288.8	288.8	288.8	287.6	285.9	285.1	285.4	286.3	286.8
177.5°	287.6	286.8	287.6	288.2	288.4	287.5	286.2	285.5	285.8	286.4	286.8
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934386

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	1001.4	995.7	995.7	986.4	982.7	979.9	975.2	961.2	957.4	953.7	959.3
5°	1009.8	999.6	992.0	975.2	961.2	955.6	937.8	904.2	881.8	865.0	855.6
7.5°	1011.7	998.6	984.5	958.4	924.8	909.8	855.6	794.0	777.2	762.2	752.9
10°	1009.8	994.8	975.2	936.0	856.6	830.4	776.2	736.1	725.8	723.0	725.8
12.5°	1003.3	989.2	962.1	896.7	785.6	767.8	736.1	712.7	710.9	715.5	740.8
15°	992.0	978.9	947.2	844.4	746.4	733.3	710.9	702.5	712.7	745.4	821.1
17.5°	980.8	965.8	926.6	793.1	716.5	707.1	691.3	708.1	766.0	809.9	835.1
20°	965.8	948.1	903.3	755.7	695.0	686.6	679.1	754.8	798.7	814.5	828.6
22.5°	948.1	929.4	871.5	729.5	672.6	666.0	670.7	780.9	798.7	809.9	822.0
25°	924.8	908.9	834.2	709.0	654.8	647.4	665.1	778.1	788.4	791.2	815.5
27.5°	903.3	882.7	794.9	690.3	633.3	630.5	669.8	766.0	773.4	776.2	802.4
30°	877.1	846.3	751.0	670.7	610.9	610.0	670.7	751.0	749.2	756.6	782.8
32.5°	850.0	792.1	701.5	646.4	589.4	588.5	664.2	728.6	726.7	737.0	756.6
35°	824.8	750.1	634.3	618.4	562.4	563.3	648.3	702.5	703.4	712.7	724.9
37.5°	798.7	713.7	560.5	587.6	536.2	536.2	626.8	678.2	676.3	679.1	695.9
40°	767.8	656.7	495.1	547.4	511.9	509.1	600.7	652.0	645.5	644.6	667.9
42.5°	735.2	594.1	446.5	494.2	483.9	480.2	568.9	620.3	608.1	610.9	640.8
45°	699.7	577.3	409.2	417.6	455.0	452.1	534.3	583.8	575.4	582.9	613.7
47.5°	664.2	543.7	397.0	346.6	424.1	423.2	496.0	548.4	543.7	551.2	583.8
50°	615.6	506.3	396.1	297.0	389.6	393.3	450.3	513.8	513.8	520.3	554.9
52.5°	553.0	460.6	359.7	269.0	349.4	360.6	410.1	483.9	485.8	492.3	523.1
55°	496.0	412.9	333.5	247.5	301.7	326.0	370.9	453.1	456.8	463.4	491.4
57.5°	443.7	343.8	327.8	222.3	257.8	281.1	336.3	423.2	425.1	430.7	457.8
60°	387.7	248.4	300.7	195.2	219.5	237.2	304.5	387.7	394.2	398.0	421.3
62.5°	324.1	180.3	272.7	176.5	200.8	204.5	278.3	354.1	362.5	365.3	379.3
65°	230.7	151.3	231.6	160.6	181.2	182.1	250.3	319.4	326.9	331.6	341.9
67.5°	156.0	123.3	176.5	145.7	166.3	167.2	223.2	279.3	289.5	293.3	299.8
70°	108.3	82.2	130.8	129.8	149.4	151.3	194.3	242.8	252.2	255.0	258.7
72.5°	79.4	66.3	108.3	116.8	131.7	133.6	164.4	201.7	211.1	213.9	215.8
75°	60.7	70.0	87.8	101.8	112.1	113.0	134.5	164.4	170.9	172.8	173.7
77.5°	48.6	65.4	64.4	82.2	91.5	89.7	105.5	127.0	132.6	132.6	132.6
80°	36.4	51.4	48.6	58.8	67.2	65.4	75.7	90.6	92.5	94.3	93.4
82.5°	27.1	32.7	32.7	37.4	44.8	43.0	50.4	58.8	58.8	58.8	60.7
85°	16.8	18.7	14.9	19.6	25.2	24.3	28.0	31.8	32.7	32.7	30.8
87.5°	10.3	8.4	4.7	7.5	11.2	11.2	13.1	14.0	13.1	13.1	13.1
90°	5.0	3.5	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7
92.5°	33.9	20.7	7.7	20.7	33.9	37.2	52.2	72.3	82.4	72.2	51.8
95°	66.4	42.4	18.5	42.4	66.4	72.4	128.5	203.3	240.8	214.8	163.0
97.5°	74.2	53.1	31.9	53.1	74.2	79.5	173.1	297.9	360.3	344.0	311.2
100°	80.7	61.5	42.3	61.5	80.7	85.5	189.3	327.8	397.1	398.4	400.8
102.5°	87.0	69.1	51.2	69.1	87.0	91.4	196.8	337.3	407.5	428.4	470.2
105°	96.5	81.4	66.2	81.4	96.5	100.3	202.3	338.4	406.4	453.2	546.8
107.5°	109.8	95.7	81.6	95.7	109.8	113.4	203.3	323.4	383.3	448.6	579.2
110°	117.5	104.7	92.0	104.7	117.5	120.7	201.8	310.0	364.1	437.0	583.0



TEST NUMBER: P934386

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	126.5	114.3	102.2	114.3	126.5	129.5	201.8	298.3	346.5	421.2	570.6
115°	140.0	128.8	117.6	128.8	140.0	142.8	203.7	284.9	325.5	397.4	541.3
117.5°	153.2	143.0	132.8	143.0	153.2	155.7	207.5	276.6	311.1	376.0	505.9
120°	160.8	151.3	141.7	151.3	160.8	163.3	210.6	273.8	305.3	364.6	483.3
122.5°	169.7	160.1	150.4	160.1	169.7	172.1	215.0	272.3	300.8	354.3	461.2
125°	181.2	172.4	163.6	172.4	181.2	183.4	221.0	271.0	296.1	341.5	432.3
127.5°	192.2	183.3	174.4	183.3	192.2	194.5	227.0	270.4	292.1	331.0	408.9
130°	199.3	189.8	180.2	189.8	199.3	201.7	231.4	270.8	290.5	325.2	394.6
132.5°	205.3	195.8	186.1	195.8	205.3	207.7	234.9	271.0	289.2	320.2	382.3
135°	212.5	203.7	195.0	203.7	212.5	214.6	238.7	270.8	286.8	312.8	364.8
137.5°	221.4	212.7	204.1	212.7	221.4	223.5	244.5	272.4	286.5	308.4	352.4
140°	227.5	219.5	211.6	219.5	227.5	229.5	248.0	272.7	285.1	304.1	342.1
142.5°	232.0	224.7	217.3	224.7	232.0	233.9	251.0	273.7	285.1	301.8	335.1
145°	239.0	232.6	226.2	232.6	239.0	240.6	254.8	273.8	283.2	296.8	324.1
147.5°	247.5	241.3	235.1	241.3	247.5	249.1	260.5	275.6	283.2	293.9	315.4
150°	252.1	246.4	240.8	246.4	252.1	253.5	263.4	276.6	283.2	292.2	310.4
152.5°	255.4	251.1	246.8	251.1	255.4	256.4	265.3	277.2	283.2	290.9	306.4
155°	262.0	258.8	255.6	258.8	262.0	262.7	269.6	278.6	283.2	289.4	301.7
157.5°	268.3	265.3	262.2	265.3	268.3	269.1	273.8	280.0	283.2	288.0	297.6
160°	271.4	269.0	266.7	269.0	271.4	272.0	275.7	280.7	283.2	287.3	295.5
162.5°	274.6	272.8	271.0	272.8	274.6	275.1	277.8	281.4	283.2	286.6	293.6
165°	279.2	277.5	275.9	277.5	279.2	279.5	280.8	282.3	283.2	285.6	290.6
167.5°	281.8	281.0	280.3	281.0	281.8	282.0	283.0	284.4	285.1	286.7	290.0
170°	284.7	283.9	283.2	283.9	284.7	284.9	285.0	285.1	285.1	286.7	290.0
172.5°	285.1	284.9	284.7	284.9	285.1	285.1	285.1	285.1	285.1	286.4	288.9
175°	286.8	286.8	286.8	286.8	286.8	286.8	286.3	285.4	285.1	285.9	287.6
177.5°	286.8	286.8	286.8	286.8	286.8	286.8	286.4	285.8	285.5	286.2	287.5
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934386

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	952.8	950.0	953.7	943.4	953.7	950.0	952.8	959.3	953.7	957.4	961.2
5°	836.0	831.4	816.4	804.3	816.4	831.4	836.0	855.6	865.0	881.8	904.2
7.5°	747.3	743.6	739.8	732.3	739.8	743.6	747.3	752.9	762.2	777.2	794.0
10°	727.7	728.6	734.2	733.3	734.2	728.6	727.7	725.8	723.0	725.8	736.1
12.5°	778.1	786.5	817.3	815.5	817.3	786.5	778.1	740.8	715.5	710.9	712.7
15°	836.0	838.8	845.4	846.3	845.4	838.8	836.0	821.1	745.4	712.7	702.5
17.5°	841.6	842.6	847.2	847.2	847.2	842.6	841.6	835.1	809.9	766.0	708.1
20°	837.0	838.8	848.2	850.0	848.2	838.8	837.0	828.6	814.5	798.7	754.8
22.5°	835.1	838.8	846.3	845.4	846.3	838.8	835.1	822.0	809.9	798.7	780.9
25°	825.7	825.7	826.7	827.6	826.7	825.7	825.7	815.5	791.2	788.4	778.1
27.5°	806.1	808.0	813.6	812.7	813.6	808.0	806.1	802.4	776.2	773.4	766.0
30°	788.4	786.5	781.9	778.1	781.9	786.5	788.4	782.8	756.6	749.2	751.0
32.5°	758.5	753.8	749.2	746.4	749.2	753.8	758.5	756.6	737.0	726.7	728.6
35°	723.0	723.9	723.0	720.2	723.0	723.9	723.0	724.9	712.7	703.4	702.5
37.5°	697.8	699.7	698.7	695.0	698.7	699.7	697.8	695.9	679.1	676.3	678.2
40°	671.6	672.6	671.6	668.8	671.6	672.6	671.6	667.9	644.6	645.5	652.0
42.5°	646.4	645.5	642.7	640.8	642.7	645.5	646.4	640.8	610.9	608.1	620.3
45°	617.5	618.4	612.8	610.0	612.8	618.4	617.5	613.7	582.9	575.4	583.8
47.5°	588.5	588.5	583.8	581.0	583.8	588.5	588.5	583.8	551.2	543.7	548.4
50°	557.7	556.8	550.2	549.3	550.2	556.8	557.7	554.9	520.3	513.8	513.8
52.5°	522.2	522.2	523.1	525.0	523.1	522.2	522.2	523.1	492.3	485.8	483.9
55°	491.4	492.3	498.8	500.7	498.8	492.3	491.4	491.4	463.4	456.8	453.1
57.5°	459.6	459.6	464.3	464.3	464.3	459.6	459.6	457.8	430.7	425.1	423.2
60°	423.2	425.1	428.8	427.9	428.8	425.1	423.2	421.3	398.0	394.2	387.7
62.5°	384.9	386.8	387.7	385.8	387.7	386.8	384.9	379.3	365.3	362.5	354.1
65°	344.7	346.6	347.5	345.7	347.5	346.6	344.7	341.9	331.6	326.9	319.4
67.5°	303.6	302.6	301.7	305.4	301.7	302.6	303.6	299.8	293.3	289.5	279.3
70°	261.5	261.5	260.6	262.5	260.6	261.5	261.5	258.7	255.0	252.2	242.8
72.5°	216.7	215.8	219.5	216.7	219.5	215.8	216.7	215.8	213.9	211.1	201.7
75°	172.8	174.7	172.8	175.6	172.8	174.7	172.8	173.7	172.8	170.9	164.4
77.5°	131.7	133.6	131.7	131.7	131.7	133.6	131.7	132.6	132.6	132.6	127.0
80°	93.4	92.5	92.5	91.5	92.5	92.5	93.4	93.4	94.3	92.5	90.6
82.5°	59.8	58.8	58.8	60.7	58.8	58.8	59.8	60.7	58.8	58.8	58.8
85°	32.7	33.6	31.8	31.8	31.8	33.6	32.7	30.8	32.7	32.7	31.8
87.5°	12.1	11.2	11.2	11.2	11.2	11.2	12.1	13.1	13.1	13.1	14.0
90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6
92.5°	36.6	35.1	29.3	23.4	29.3	35.1	36.6	51.8	72.2	82.4	72.3
95°	124.1	119.7	102.1	84.5	102.1	119.7	124.1	163.0	214.8	240.8	203.3
97.5°	286.6	278.2	244.7	211.2	244.7	278.2	286.6	311.2	344.0	360.3	297.9
100°	402.6	392.6	352.6	312.6	352.6	392.6	402.6	400.8	398.4	397.1	327.8
102.5°	501.5	492.9	458.7	424.5	458.7	492.9	501.5	470.2	428.4	407.5	337.3
105°	617.0	612.4	594.0	575.6	594.0	612.4	617.0	546.8	453.2	406.4	338.4
107.5°	677.1	678.2	682.6	687.1	682.6	678.2	677.1	579.2	448.6	383.3	323.4
110°	692.5	697.2	716.4	735.5	716.4	697.2	692.5	583.0	437.0	364.1	310.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	682.7	690.0	719.5	748.9	719.5	690.0	682.7	570.6	421.2	346.5	298.3
115°	649.3	659.5	700.3	741.1	700.3	659.5	649.3	541.3	397.4	325.5	284.9
117.5°	603.3	614.6	659.9	705.2	659.9	614.6	603.3	505.9	376.0	311.1	276.6
120°	572.4	583.4	627.3	671.3	627.3	583.4	572.4	483.3	364.6	305.3	273.8
122.5°	541.3	552.2	595.6	638.9	595.6	552.2	541.3	461.2	354.3	300.8	272.3
125°	500.3	510.3	550.2	590.2	550.2	510.3	500.3	432.3	341.5	296.1	271.0
127.5°	467.4	475.8	509.5	543.2	509.5	475.8	467.4	408.9	331.0	292.1	270.4
130°	446.6	454.4	485.6	516.7	485.6	454.4	446.6	394.6	325.2	290.5	270.8
132.5°	428.9	435.9	463.7	491.7	463.7	435.9	428.9	382.3	320.2	289.2	271.0
135°	403.9	409.8	433.9	457.9	433.9	409.8	403.9	364.8	312.8	286.8	270.8
137.5°	385.4	390.3	409.9	429.6	409.9	390.3	385.4	352.4	308.4	286.5	272.4
140°	370.6	375.2	393.6	412.0	393.6	375.2	370.6	342.1	304.1	285.1	272.7
142.5°	360.2	364.1	380.0	395.8	380.0	364.1	360.2	335.1	301.8	285.1	273.7
145°	344.6	347.5	359.6	371.5	359.6	347.5	344.6	324.1	296.8	283.2	273.8
147.5°	331.5	334.0	343.9	353.8	343.9	334.0	331.5	315.4	293.9	283.2	275.6
150°	324.0	326.1	334.1	342.1	334.1	326.1	324.0	310.4	292.2	283.2	276.6
152.5°	318.0	319.5	325.6	331.7	325.6	319.5	318.0	306.4	290.9	283.2	277.2
155°	310.9	312.0	316.0	320.0	316.0	312.0	310.9	301.7	289.4	283.2	278.6
157.5°	304.8	305.5	308.3	311.1	308.3	305.5	304.8	297.6	288.0	283.2	280.0
160°	301.7	302.1	303.7	305.3	303.7	302.1	301.7	295.5	287.3	283.2	280.7
162.5°	298.8	299.2	300.7	302.2	300.7	299.2	298.8	293.6	286.6	283.2	281.4
165°	294.3	294.7	296.4	298.0	296.4	294.7	294.3	290.6	285.6	283.2	282.3
167.5°	292.4	292.6	293.3	293.9	293.3	292.6	292.4	290.0	286.7	285.1	284.4
170°	292.4	292.4	292.4	292.4	292.4	292.4	292.4	290.0	286.7	285.1	285.1
172.5°	290.8	290.7	290.1	289.5	290.1	290.7	290.8	288.9	286.4	285.1	285.1
175°	288.8	288.8	288.8	288.8	288.8	288.8	288.8	287.6	285.9	285.1	285.4
177.5°	288.4	288.2	287.6	286.8	287.6	288.2	288.4	287.5	286.2	285.5	285.8
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934386

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	987.3	987.3	987.3	987.3	987.3
2.5°	975.2	979.9	982.7	986.4	995.7
5°	937.8	955.6	961.2	975.2	992.0
7.5°	855.6	909.8	924.8	958.4	984.5
10°	776.2	830.4	856.6	936.0	975.2
12.5°	736.1	767.8	785.6	896.7	962.1
15°	710.9	733.3	746.4	844.4	947.2
17.5°	691.3	707.1	716.5	793.1	926.6
20°	679.1	686.6	695.0	755.7	903.3
22.5°	670.7	666.0	672.6	729.5	871.5
25°	665.1	647.4	654.8	709.0	834.2
27.5°	669.8	630.5	633.3	690.3	794.9
30°	670.7	610.0	610.9	670.7	751.0
32.5°	664.2	588.5	589.4	646.4	701.5
35°	648.3	563.3	562.4	618.4	634.3
37.5°	626.8	536.2	536.2	587.6	560.5
40°	600.7	509.1	511.9	547.4	495.1
42.5°	568.9	480.2	483.9	494.2	446.5
45°	534.3	452.1	455.0	417.6	409.2
47.5°	496.0	423.2	424.1	346.6	397.0
50°	450.3	393.3	389.6	297.0	396.1
52.5°	410.1	360.6	349.4	269.0	359.7
55°	370.9	326.0	301.7	247.5	333.5
57.5°	336.3	281.1	257.8	222.3	327.8
60°	304.5	237.2	219.5	195.2	300.7
62.5°	278.3	204.5	200.8	176.5	272.7
65°	250.3	182.1	181.2	160.6	231.6
67.5°	223.2	167.2	166.3	145.7	176.5
70°	194.3	151.3	149.4	129.8	130.8
72.5°	164.4	133.6	131.7	116.8	108.3
75°	134.5	113.0	112.1	101.8	87.8
77.5°	105.5	89.7	91.5	82.2	64.4
80°	75.7	65.4	67.2	58.8	48.6
82.5°	50.4	43.0	44.8	37.4	32.7
85°	28.0	24.3	25.2	19.6	14.9
87.5°	13.1	11.2	11.2	7.5	4.7
90°	8.5	5.4	5.0	3.5	2.0
92.5°	52.2	37.2	33.9	20.7	7.7
95°	128.5	72.4	66.4	42.4	18.5
97.5°	173.1	79.5	74.2	53.1	31.9
100°	189.3	85.5	80.7	61.5	42.3
102.5°	196.8	91.4	87.0	69.1	51.2
105°	202.3	100.3	96.5	81.4	66.2
107.5°	203.3	113.4	109.8	95.7	81.6
110°	201.8	120.7	117.5	104.7	92.0



TEST NUMBER: P934386

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	201.8	129.5	126.5	114.3	102.2
115°	203.7	142.8	140.0	128.8	117.6
117.5°	207.5	155.7	153.2	143.0	132.8
120°	210.6	163.3	160.8	151.3	141.7
122.5°	215.0	172.1	169.7	160.1	150.4
125°	221.0	183.4	181.2	172.4	163.6
127.5°	227.0	194.5	192.2	183.3	174.4
130°	231.4	201.7	199.3	189.8	180.2
132.5°	234.9	207.7	205.3	195.8	186.1
135°	238.7	214.6	212.5	203.7	195.0
137.5°	244.5	223.5	221.4	212.7	204.1
140°	248.0	229.5	227.5	219.5	211.6
142.5°	251.0	233.9	232.0	224.7	217.3
145°	254.8	240.6	239.0	232.6	226.2
147.5°	260.5	249.1	247.5	241.3	235.1
150°	263.4	253.5	252.1	246.4	240.8
152.5°	265.3	256.4	255.4	251.1	246.8
155°	269.6	262.7	262.0	258.8	255.6
157.5°	273.8	269.1	268.3	265.3	262.2
160°	275.7	272.0	271.4	269.0	266.7
162.5°	277.8	275.1	274.6	272.8	271.0
165°	280.8	279.5	279.2	277.5	275.9
167.5°	283.0	282.0	281.8	281.0	280.3
170°	285.0	284.9	284.7	283.9	283.2
172.5°	285.1	285.1	285.1	284.9	284.7
175°	286.3	286.8	286.8	286.8	286.8
177.5°	286.4	286.8	286.8	286.8	286.8
180°	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934386  
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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	13.19	14.13	14.08	15.04	16.19	15.99	16.93	16.88	17.83	18.99
	3H	13.67	14.51	14.57	15.43	16.61	17.33	18.17	18.23	19.09	20.27
	4H	13.87	14.66	14.78	15.58	16.77	17.77	18.57	18.69	19.49	20.68
	6H	13.99	14.72	14.92	15.65	16.85	18.05	18.78	18.98	19.71	20.91
	8H	14.00	14.69	14.93	15.64	16.84	18.13	18.82	19.06	19.77	20.97
	12H	13.97	14.63	14.91	15.57	16.80	18.16	18.83	19.10	19.76	20.99
4H	2H	14.23	15.02	15.14	15.94	17.13	16.41	17.20	17.33	18.13	19.31
	3H	15.26	15.92	16.19	16.87	18.08	17.91	18.57	18.84	19.53	20.73
	4H	15.54	16.14	16.48	17.09	18.32	18.44	19.04	19.38	19.99	21.22
	6H	15.67	16.19	16.62	17.16	18.39	18.80	19.32	19.75	20.29	21.52
	8H	15.68	16.16	16.63	17.13	18.37	18.90	19.39	19.86	20.35	21.60
	12H	15.65	16.09	16.62	17.07	18.31	18.96	19.40	19.93	20.38	21.63
8H	4H	15.99	16.48	16.95	17.44	18.69	18.57	19.06	19.52	20.02	21.26
	6H	16.26	16.66	17.24	17.67	18.91	19.00	19.40	19.98	20.41	21.65
	8H	16.30	16.66	17.29	17.65	18.91	19.15	19.50	20.14	20.50	21.76
	12H	16.29	16.60	17.28	17.59	18.90	19.24	19.56	20.24	20.55	21.85
12H	4H	16.00	16.44	16.98	17.42	18.67	18.54	18.98	19.51	19.96	21.20
	6H	16.32	16.67	17.31	17.67	18.93	19.00	19.35	19.99	20.35	21.61
	8H	16.39	16.70	17.38	17.69	19.00	19.16	19.47	20.15	20.46	21.77