

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: P933840

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

**Test Information**

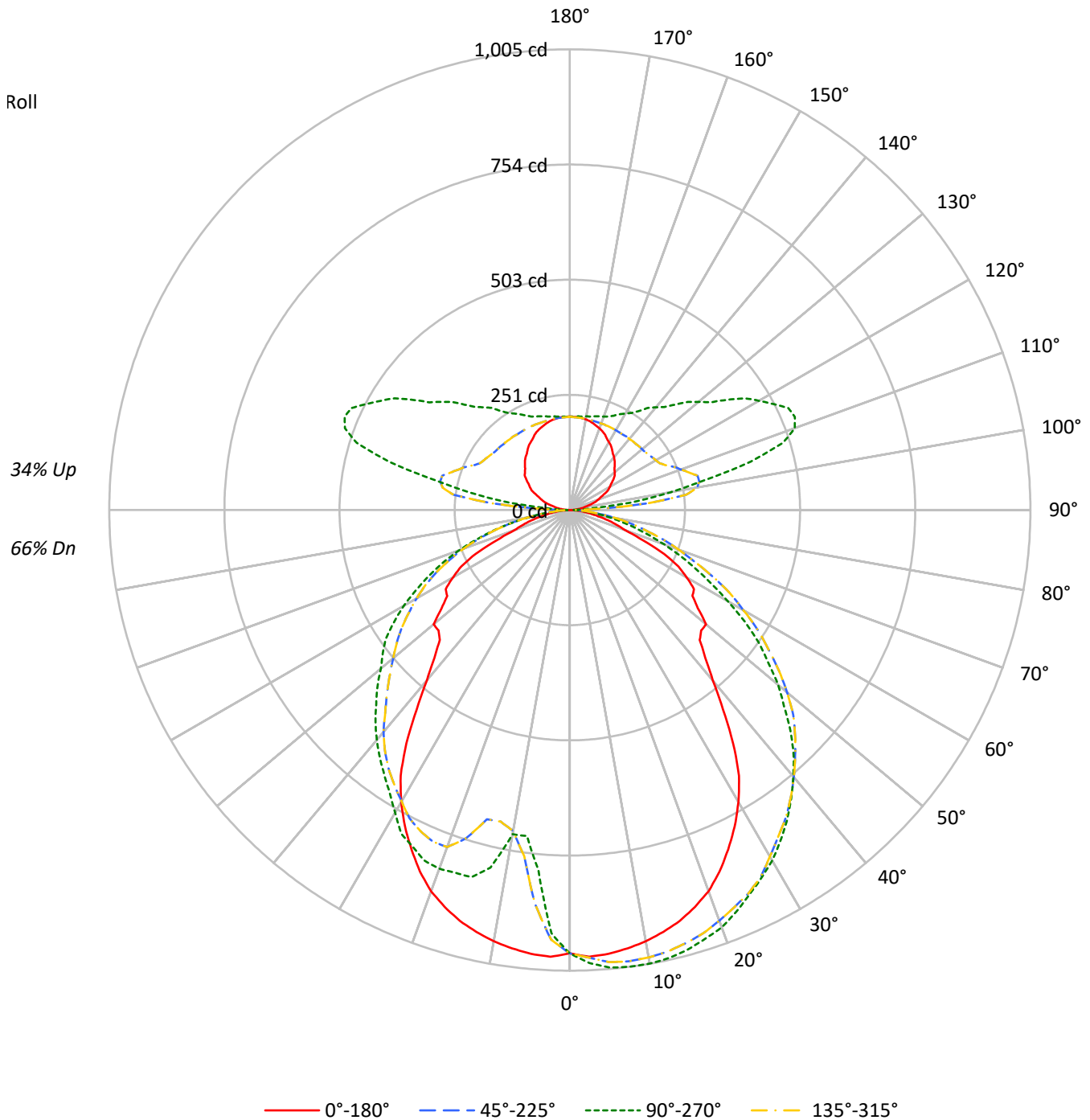
Test Method: LM-79-2019  
Report Number: P933840  
REPORT IS A COMBINATION OF REPORTS P933675 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3828.6 lumens  
Efficiency: N/A  
Efficacy: 116.0 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: Semi-Direct  
  
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P933840  
CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**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	0
RCR																					
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

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

	0°	90°	180°	270°
0°	5983	5983	5983	5983
5°	6026	6040	6026	4749
10°	5983	5950	5983	4253
15°	5916	5821	5916	4860
20°	5790	5668	5790	4871
25°	5534	5446	5534	4768
30°	5205	5261	5205	4541
35°	4639	5026	4639	4292
40°	3863	4751	3863	4104
45°	3449	4429	3449	3887
50°	3661	4045	3661	3670
55°	3442	3631	3442	3545
60°	3543	3084	3543	3246
65°	3208	2549	3208	2849
70°	2216	2031	2216	2389
75°	1937	1501	1937	1798
80°	1549	992	1549	1081
85°	870	526	870	447

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5290 cd/sqm



TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.3	2.3
10°-20°	247.9	6.5
20°-30°	383.2	10.0
30°-40°	457.5	11.9
40°-50°	460.1	12.0
50°-60°	400.4	10.5
60°-70°	283.9	7.4
70°-80°	150.2	3.9
80°-90°	38.2	1.0
90°-100°	99.2	2.6
100°-110°	260.9	6.8
110°-120°	270.6	7.1
120°-130°	217.0	5.7
130°-140°	170.3	4.4
140°-150°	130.7	3.4
150°-160°	94.1	2.5
160°-170°	57.6	1.5
170°-180°	19.5	0.5
0°-30°	718.4	18.8
0°-40°	1175.9	30.7
0°-60°	2036.4	53.2
0°-90°	2508.6	65.5
90°-120°	630.8	16.5
90°-150°	1148.8	30.0
90°-180°	1320.0	34.5
0°-180°	3828.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	967	967	967	967	967	
5°	972	1002	972	788	972	92
15°	928	993	928	829	928	261
25°	817	926	817	811	817	375
35°	621	826	621	706	621	384
45°	401	681	401	598	401	321
55°	327	502	327	490	327	300
65°	227	303	227	339	227	217
75°	86	144	86	172	86	90
85°	15	37	15	31	15	20
90°	1	5	1	5	1	2
95°	13	60	13	60	13	15
105°	47	409	47	409	47	50
115°	84	526	84	526	84	82
125°	116	419	116	419	116	103
135°	138	325	138	325	138	107
145°	161	264	161	264	161	101
155°	182	227	182	227	182	83
165°	196	212	196	212	196	55
175°	204	205	204	205	204	19
180°	204	204	204	204	204	



TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2
2.5°	975.5	975.5	981.0	982.8	982.8	980.0	977.3	980.0	988.3	991.0	990.1
5°	971.8	979.1	989.2	991.0	992.9	992.0	990.1	992.0	1001.1	1003.0	1003.9
7.5°	964.5	978.2	991.0	993.8	996.5	993.8	992.9	994.7	1003.9	1005.7	1005.7
10°	955.3	974.6	989.2	991.0	993.8	991.0	991.0	994.7	1003.9	1005.7	1006.6
12.5°	942.6	969.0	982.8	984.6	988.3	987.4	986.4	990.1	999.2	1001.1	1001.1
15°	927.9	959.0	971.8	973.7	980.0	978.2	978.2	981.9	992.0	994.7	993.8
17.5°	907.7	946.2	960.8	963.6	968.1	967.2	968.1	971.8	981.0	982.8	983.7
20°	884.9	928.8	946.2	948.9	953.5	953.5	953.5	958.1	967.2	970.9	970.9
22.5°	853.8	910.5	928.8	930.6	936.1	936.1	937.9	944.4	952.6	953.5	953.5
25°	817.1	890.4	905.9	911.5	916.9	919.6	922.4	926.1	928.8	927.9	928.8
27.5°	778.7	864.7	884.9	888.5	895.9	898.6	902.3	903.2	904.1	906.8	905.0
30°	735.7	829.0	859.2	862.9	874.8	876.6	873.0	874.8	879.3	881.3	883.1
32.5°	687.2	776.0	832.7	841.0	852.0	846.4	845.5	848.2	855.6	855.6	857.4
35°	621.4	734.8	808.0	815.3	823.6	817.1	820.9	821.8	826.3	829.0	828.1
37.5°	549.1	699.1	782.4	787.8	794.3	786.0	791.6	794.3	797.9	796.1	796.1
40°	485.0	643.3	752.2	755.8	761.4	754.9	760.5	762.3	764.1	762.3	761.4
42.5°	437.4	582.0	720.2	724.7	721.1	725.6	727.5	731.2	728.4	724.7	724.7
45°	400.8	565.5	685.4	690.9	685.4	692.7	695.4	695.4	687.2	685.4	684.5
47.5°	388.9	532.6	650.7	650.7	647.8	657.0	661.6	655.2	646.9	644.2	644.2
50°	388.0	495.9	603.0	599.4	612.2	623.2	618.6	612.2	605.8	595.7	595.7
52.5°	352.3	451.1	541.7	555.4	575.6	582.0	574.7	568.3	557.2	552.7	549.1
55°	326.7	404.4	485.9	513.4	534.4	542.6	529.0	522.5	506.0	503.3	501.5
57.5°	321.2	336.7	434.6	469.5	495.0	494.1	485.9	474.0	460.3	457.5	456.6
60°	294.6	243.4	379.8	421.0	447.5	444.7	437.4	426.4	413.6	411.8	410.0
62.5°	267.2	176.7	317.6	364.2	401.7	400.8	394.4	378.0	368.8	364.2	360.6
65°	227.0	148.3	226.0	302.9	356.9	358.7	345.0	333.1	323.0	317.6	316.6
67.5°	172.9	120.8	152.8	252.6	313.9	312.0	294.6	289.2	276.3	273.6	268.2
70°	128.1	80.5	106.2	204.9	271.8	267.2	253.5	247.1	235.1	228.8	225.1
72.5°	106.2	64.9	77.8	159.2	228.8	223.3	211.4	204.0	194.0	188.5	184.8
75°	86.1	68.6	59.5	118.1	185.7	182.1	171.1	163.8	155.5	148.3	149.2
77.5°	63.1	64.0	47.6	87.0	147.4	141.8	135.4	126.3	122.6	115.3	115.3
80°	47.6	50.3	35.7	59.5	106.2	106.2	100.7	94.2	87.9	84.2	84.2
82.5°	32.0	32.0	26.6	37.5	72.3	69.6	65.9	64.0	60.4	58.6	58.6
85°	14.6	18.3	16.5	22.8	39.4	41.2	41.2	39.4	38.5	36.6	37.5
87.5°	4.5	8.3	10.1	12.8	20.1	21.0	21.9	21.9	21.9	22.8	22.8
90°	1.4	2.5	3.5	3.8	6.0	8.9	10.4	9.2	6.9	5.2	5.2
92.5°	5.5	14.7	24.0	26.4	37.1	51.4	58.5	51.2	36.7	25.9	24.9
95°	13.1	30.1	47.1	51.4	91.2	144.4	170.9	152.5	115.7	88.1	85.1
97.5°	22.6	37.7	52.7	56.4	122.9	211.5	255.8	244.1	221.0	203.5	197.6
100°	30.1	43.7	57.3	60.7	134.4	232.8	281.9	282.7	284.4	285.7	278.6
102.5°	36.4	49.1	61.8	64.9	139.7	239.4	289.3	304.1	333.7	356.0	349.9
105°	47.0	57.8	68.5	71.2	143.6	240.1	288.4	321.6	388.1	438.0	434.7
107.5°	57.9	67.9	78.0	80.5	144.4	229.5	272.1	318.5	411.2	480.7	481.5
110°	65.3	74.4	83.4	85.7	143.3	220.0	258.4	310.3	413.9	491.6	494.9



TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	72.6	81.2	89.8	92.0	143.3	211.8	246.0	299.0	405.1	484.6	489.7
115°	83.5	91.5	99.4	101.4	144.6	202.2	231.0	282.2	384.3	460.9	468.2
117.5°	94.3	101.5	108.7	110.5	147.3	196.3	220.9	267.0	359.1	428.3	436.3
120°	100.6	107.4	114.2	115.9	149.5	194.4	216.8	258.9	343.1	406.3	414.2
122.5°	106.7	113.6	120.4	122.2	152.6	193.3	213.6	251.5	327.4	384.3	392.1
125°	116.2	122.4	128.7	130.3	156.9	192.5	210.2	242.4	306.9	355.2	362.3
127.5°	123.8	130.1	136.4	138.0	161.1	191.9	207.3	235.0	290.4	331.8	337.8
130°	127.9	134.7	141.4	143.2	164.2	192.2	206.2	230.9	280.1	317.0	322.6
132.5°	132.2	139.0	145.7	147.5	166.7	192.5	205.3	227.3	271.4	304.5	309.4
135°	138.4	144.6	150.8	152.4	169.5	192.3	203.7	222.1	259.1	286.7	291.0
137.5°	144.9	151.0	157.1	158.6	173.6	193.5	203.4	219.0	250.2	273.6	277.1
140°	150.2	155.8	161.5	162.9	176.1	193.7	202.4	215.9	242.9	263.1	266.3
142.5°	154.3	159.5	164.7	166.0	178.1	194.3	202.4	214.2	238.0	255.7	258.5
145°	160.6	165.1	169.6	170.8	180.9	194.3	201.0	210.7	230.0	244.6	246.7
147.5°	166.8	171.3	175.7	176.8	184.9	195.7	201.0	208.7	223.9	235.3	237.1
150°	170.9	174.9	179.0	180.0	187.0	196.4	201.0	207.5	220.3	230.0	231.4
152.5°	175.2	178.2	181.3	182.0	188.4	196.8	201.0	206.5	217.5	225.8	226.9
155°	181.5	183.7	186.0	186.6	191.4	197.8	201.0	205.4	214.1	220.7	221.4
157.5°	186.1	188.3	190.5	191.0	194.4	198.8	201.0	204.4	211.2	216.3	216.9
160°	189.3	191.0	192.7	193.1	195.8	199.3	201.0	203.9	209.8	214.1	214.4
162.5°	192.4	193.7	194.9	195.3	197.2	199.8	201.0	203.5	208.4	212.1	212.4
165°	195.8	196.9	198.1	198.4	199.3	200.5	201.0	202.8	206.3	208.9	209.2
167.5°	198.9	199.5	200.0	200.2	200.9	201.9	202.4	203.6	205.9	207.6	207.7
170°	201.0	201.6	202.1	202.2	202.3	202.4	202.4	203.6	205.9	207.6	207.6
172.5°	202.1	202.2	202.4	202.4	202.4	202.4	202.4	203.3	205.1	206.5	206.4
175°	203.7	203.7	203.7	203.7	203.2	202.7	202.4	202.9	204.1	205.0	205.0
177.5°	203.7	203.7	203.7	203.7	203.3	202.8	202.7	203.1	204.0	204.8	204.7
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2
2.5°	992.0	989.2	992.0	990.1	991.0	988.3	980.0	977.3	980.0	982.8	982.8
5°	1003.9	1002.0	1003.9	1003.9	1003.0	1001.1	992.0	990.1	992.0	992.9	991.0
7.5°	1007.5	1004.8	1007.5	1005.7	1005.7	1003.9	994.7	992.9	993.8	996.5	993.8
10°	1007.5	1004.8	1007.5	1006.6	1005.7	1003.9	994.7	991.0	991.0	993.8	991.0
12.5°	1003.0	1001.1	1003.0	1001.1	1001.1	999.2	990.1	986.4	987.4	988.3	984.6
15°	995.6	992.9	995.6	993.8	994.7	992.0	981.9	978.2	978.2	980.0	973.7
17.5°	984.6	981.0	984.6	983.7	982.8	981.0	971.8	968.1	967.2	968.1	963.6
20°	971.8	969.0	971.8	970.9	970.9	967.2	958.1	953.5	953.5	953.5	948.9
22.5°	951.7	948.9	951.7	953.5	953.5	952.6	944.4	937.9	936.1	936.1	930.6
25°	928.8	926.1	928.8	928.8	927.9	928.8	926.1	922.4	919.6	916.9	911.5
27.5°	906.8	905.0	906.8	905.0	906.8	904.1	903.2	902.3	898.6	895.9	888.5
30°	884.9	883.1	884.9	883.1	881.3	879.3	874.8	873.0	876.6	874.8	862.9
32.5°	857.4	855.6	857.4	857.4	855.6	855.6	848.2	845.5	846.4	852.0	841.0
35°	829.0	826.3	829.0	828.1	829.0	826.3	821.8	820.9	817.1	823.6	815.3
37.5°	796.1	793.4	796.1	796.1	796.1	797.9	794.3	791.6	786.0	794.3	787.8
40°	762.3	758.6	762.3	761.4	762.3	764.1	762.3	760.5	754.9	761.4	755.8
42.5°	723.8	722.9	723.8	724.7	724.7	728.4	731.2	727.5	725.6	721.1	724.7
45°	682.7	680.8	682.7	684.5	685.4	687.2	695.4	695.4	692.7	685.4	690.9
47.5°	638.7	634.1	638.7	644.2	644.2	646.9	655.2	661.6	657.0	647.8	650.7
50°	592.1	593.0	592.1	595.7	595.7	605.8	612.2	618.6	623.2	612.2	599.4
52.5°	546.3	545.4	546.3	549.1	552.7	557.2	568.3	574.7	582.0	575.6	555.4
55°	500.6	502.4	500.6	501.5	503.3	506.0	522.5	529.0	542.6	534.4	513.4
57.5°	454.8	452.1	454.8	456.6	457.5	460.3	474.0	485.9	494.1	495.0	469.5
60°	401.7	398.1	401.7	410.0	411.8	413.6	426.4	437.4	444.7	447.5	421.0
62.5°	355.0	348.7	355.0	360.6	364.2	368.8	378.0	394.4	400.8	401.7	364.2
65°	305.6	302.9	305.6	316.6	317.6	323.0	333.1	345.0	358.7	356.9	302.9
67.5°	260.8	260.8	260.8	268.2	273.6	276.3	289.2	294.6	312.0	313.9	252.6
70°	219.6	218.7	219.6	225.1	228.8	235.1	247.1	253.5	267.2	271.8	204.9
72.5°	180.3	179.4	180.3	184.8	188.5	194.0	204.0	211.4	223.3	228.8	159.2
75°	145.5	143.6	145.5	149.2	148.3	155.5	163.8	171.1	182.1	185.7	118.1
77.5°	111.6	111.6	111.6	115.3	115.3	122.6	126.3	135.4	141.8	147.4	87.0
80°	83.2	82.3	83.2	84.2	84.2	87.9	94.2	100.7	106.2	106.2	59.5
82.5°	58.6	56.8	58.6	58.6	58.6	60.4	64.0	65.9	69.6	72.3	37.5
85°	36.6	36.6	36.6	37.5	36.6	38.5	39.4	41.2	41.2	39.4	22.8
87.5°	23.8	22.8	23.8	22.8	22.8	21.9	21.9	21.9	21.0	20.1	12.8
90°	5.2	5.2	5.2	5.2	5.2	6.9	9.2	10.4	8.9	6.0	3.8
92.5°	20.7	16.6	20.7	24.9	25.9	36.7	51.2	58.5	51.4	37.1	26.4
95°	72.5	60.0	72.5	85.1	88.1	115.7	152.5	170.9	144.4	91.2	51.4
97.5°	173.7	149.9	173.7	197.6	203.5	221.0	244.1	255.8	211.5	122.9	56.4
100°	250.3	222.0	250.3	278.6	285.7	284.4	282.7	281.9	232.8	134.4	60.7
102.5°	325.7	301.4	325.7	349.9	356.0	333.7	304.1	289.3	239.4	139.7	64.9
105°	421.7	408.6	421.7	434.7	438.0	388.1	321.6	288.4	240.1	143.6	71.2
107.5°	484.6	487.7	484.6	481.5	480.7	411.2	318.5	272.1	229.5	144.4	80.5
110°	508.6	522.2	508.6	494.9	491.6	413.9	310.3	258.4	220.0	143.3	85.7





TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	510.7	531.6	510.7	489.7	484.6	405.1	299.0	246.0	211.8	143.3	92.0
115°	497.1	526.1	497.1	468.2	460.9	384.3	282.2	231.0	202.2	144.6	101.4
117.5°	468.5	500.6	468.5	436.3	428.3	359.1	267.0	220.9	196.3	147.3	110.5
120°	445.4	476.6	445.4	414.2	406.3	343.1	258.9	216.8	194.4	149.5	115.9
122.5°	422.8	453.5	422.8	392.1	384.3	327.4	251.5	213.6	193.3	152.6	122.2
125°	390.6	419.0	390.6	362.3	355.2	306.9	242.4	210.2	192.5	156.9	130.3
127.5°	361.8	385.7	361.8	337.8	331.8	290.4	235.0	207.3	191.9	161.1	138.0
130°	344.7	366.8	344.7	322.6	317.0	280.1	230.9	206.2	192.2	164.2	143.2
132.5°	329.2	349.0	329.2	309.4	304.5	271.4	227.3	205.3	192.5	166.7	147.5
135°	308.0	325.1	308.0	291.0	286.7	259.1	222.1	203.7	192.3	169.5	152.4
137.5°	291.1	305.0	291.1	277.1	273.6	250.2	219.0	203.4	193.5	173.6	158.6
140°	279.3	292.4	279.3	266.3	263.1	242.9	215.9	202.4	193.7	176.1	162.9
142.5°	269.7	281.0	269.7	258.5	255.7	238.0	214.2	202.4	194.3	178.1	166.0
145°	255.2	263.8	255.2	246.7	244.6	230.0	210.7	201.0	194.3	180.9	170.8
147.5°	244.1	251.2	244.1	237.1	235.3	223.9	208.7	201.0	195.7	184.9	176.8
150°	237.1	242.9	237.1	231.4	230.0	220.3	207.5	201.0	196.4	187.0	180.0
152.5°	231.1	235.5	231.1	226.9	225.8	217.5	206.5	201.0	196.8	188.4	182.0
155°	224.2	227.1	224.2	221.4	220.7	214.1	205.4	201.0	197.8	191.4	186.6
157.5°	218.9	220.9	218.9	216.9	216.3	211.2	204.4	201.0	198.8	194.4	191.0
160°	215.6	216.8	215.6	214.4	214.1	209.8	203.9	201.0	199.3	195.8	193.1
162.5°	213.5	214.6	213.5	212.4	212.1	208.4	203.5	201.0	199.8	197.2	195.3
165°	210.4	211.6	210.4	209.2	208.9	206.3	202.8	201.0	200.5	199.3	198.4
167.5°	208.2	208.7	208.2	207.7	207.6	205.9	203.6	202.4	201.9	200.9	200.2
170°	207.6	207.6	207.6	207.6	207.6	205.9	203.6	202.4	202.4	202.3	202.2
172.5°	205.9	205.6	205.9	206.4	206.5	205.1	203.3	202.4	202.4	202.4	202.4
175°	205.0	205.0	205.0	205.0	205.0	204.1	202.9	202.4	202.7	203.2	203.7
177.5°	204.1	203.7	204.1	204.7	204.8	204.0	203.1	202.7	202.8	203.3	203.7
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2
2.5°	981.0	975.5	975.5	966.3	962.7	959.9	955.3	941.7	937.9	934.3	939.7
5°	989.2	979.1	971.8	955.3	941.7	936.1	918.7	885.8	863.8	847.3	838.2
7.5°	991.0	978.2	964.5	938.8	905.9	891.3	838.2	777.8	761.4	746.7	737.5
10°	989.2	974.6	955.3	916.9	839.1	813.5	760.5	721.1	711.0	708.2	711.0
12.5°	982.8	969.0	942.6	878.4	769.6	752.2	721.1	698.2	696.3	701.0	725.6
15°	971.8	959.0	927.9	827.2	731.2	718.3	696.3	688.1	698.2	730.3	804.4
17.5°	960.8	946.2	907.7	776.9	701.9	692.7	677.1	693.6	750.4	793.4	818.0
20°	946.2	928.8	884.9	740.3	680.8	672.6	665.2	739.4	782.4	797.9	811.7
22.5°	928.8	910.5	853.8	714.7	658.9	652.5	657.0	765.0	782.4	793.4	805.3
25°	905.9	890.4	817.1	694.5	641.5	634.1	651.6	762.3	772.3	775.1	798.8
27.5°	884.9	864.7	778.7	676.2	620.5	617.6	656.1	750.4	757.7	760.5	786.0
30°	859.2	829.0	735.7	657.0	598.5	597.5	657.0	735.7	733.9	741.2	766.8
32.5°	832.7	776.0	687.2	633.2	577.4	576.5	650.7	713.8	712.0	722.0	741.2
35°	808.0	734.8	621.4	605.8	550.9	551.8	635.0	688.1	689.1	698.2	710.1
37.5°	782.4	699.1	549.1	575.6	525.2	525.2	614.0	664.3	662.5	665.2	681.8
40°	752.2	643.3	485.0	536.2	501.5	498.8	588.4	638.7	632.3	631.4	654.3
42.5°	720.2	582.0	437.4	484.1	474.0	470.4	557.2	607.6	595.7	598.5	627.7
45°	685.4	565.5	400.8	409.1	445.6	442.9	523.4	571.9	563.7	571.0	601.2
47.5°	650.7	532.6	388.9	339.5	415.4	414.5	485.9	537.1	532.6	539.9	571.9
50°	603.0	495.9	388.0	291.0	381.6	385.2	441.1	503.3	503.3	509.7	543.6
52.5°	541.7	451.1	352.3	263.5	342.2	353.2	401.7	474.0	475.8	482.3	512.4
55°	485.9	404.4	326.7	242.5	295.5	319.4	363.3	443.8	447.5	453.9	481.3
57.5°	434.6	336.7	321.2	217.8	252.6	275.4	329.5	414.5	416.3	421.9	448.4
60°	379.8	243.4	294.6	191.2	215.0	232.4	298.3	379.8	386.1	389.8	412.7
62.5°	317.6	176.7	267.2	172.9	196.8	200.4	272.7	346.8	355.0	357.8	371.5
65°	226.0	148.3	227.0	157.4	177.6	178.5	245.2	312.9	320.3	324.8	334.9
67.5°	152.8	120.8	172.9	142.7	162.9	163.8	218.7	273.6	283.7	287.4	293.7
70°	106.2	80.5	128.1	127.2	146.5	148.3	190.3	238.0	247.1	249.8	253.5
72.5°	77.8	64.9	106.2	114.3	129.0	130.9	161.1	197.7	206.9	209.6	211.4
75°	59.5	68.6	86.1	99.8	109.8	110.7	131.8	161.1	167.5	169.3	170.2
77.5°	47.6	64.0	63.1	80.5	89.7	87.9	103.4	124.4	129.9	129.9	129.9
80°	35.7	50.3	47.6	57.7	65.9	64.0	74.1	88.8	90.6	92.4	91.5
82.5°	26.6	32.0	32.0	36.6	43.9	42.1	49.4	57.7	57.7	57.7	59.5
85°	16.5	18.3	14.6	19.2	24.7	23.8	27.5	31.1	32.0	32.0	30.2
87.5°	10.1	8.3	4.5	7.3	11.0	11.0	12.8	13.7	12.8	12.8	12.8
90°	3.5	2.5	1.4	2.5	3.5	3.8	6.0	8.9	10.4	9.2	6.9
92.5°	24.0	14.7	5.5	14.7	24.0	26.4	37.1	51.4	58.5	51.2	36.7
95°	47.1	30.1	13.1	30.1	47.1	51.4	91.2	144.4	170.9	152.5	115.7
97.5°	52.7	37.7	22.6	37.7	52.7	56.4	122.9	211.5	255.8	244.1	221.0
100°	57.3	43.7	30.1	43.7	57.3	60.7	134.4	232.8	281.9	282.7	284.4
102.5°	61.8	49.1	36.4	49.1	61.8	64.9	139.7	239.4	289.3	304.1	333.7
105°	68.5	57.8	47.0	57.8	68.5	71.2	143.6	240.1	288.4	321.6	388.1
107.5°	78.0	67.9	57.9	67.9	78.0	80.5	144.4	229.5	272.1	318.5	411.2
110°	83.4	74.4	65.3	74.4	83.4	85.7	143.3	220.0	258.4	310.3	413.9



TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	89.8	81.2	72.6	81.2	89.8	92.0	143.3	211.8	246.0	299.0	405.1
115°	99.4	91.5	83.5	91.5	99.4	101.4	144.6	202.2	231.0	282.2	384.3
117.5°	108.7	101.5	94.3	101.5	108.7	110.5	147.3	196.3	220.9	267.0	359.1
120°	114.2	107.4	100.6	107.4	114.2	115.9	149.5	194.4	216.8	258.9	343.1
122.5°	120.4	113.6	106.7	113.6	120.4	122.2	152.6	193.3	213.6	251.5	327.4
125°	128.7	122.4	116.2	122.4	128.7	130.3	156.9	192.5	210.2	242.4	306.9
127.5°	136.4	130.1	123.8	130.1	136.4	138.0	161.1	191.9	207.3	235.0	290.4
130°	141.4	134.7	127.9	134.7	141.4	143.2	164.2	192.2	206.2	230.9	280.1
132.5°	145.7	139.0	132.2	139.0	145.7	147.5	166.7	192.5	205.3	227.3	271.4
135°	150.8	144.6	138.4	144.6	150.8	152.4	169.5	192.3	203.7	222.1	259.1
137.5°	157.1	151.0	144.9	151.0	157.1	158.6	173.6	193.5	203.4	219.0	250.2
140°	161.5	155.8	150.2	155.8	161.5	162.9	176.1	193.7	202.4	215.9	242.9
142.5°	164.7	159.5	154.3	159.5	164.7	166.0	178.1	194.3	202.4	214.2	238.0
145°	169.6	165.1	160.6	165.1	169.6	170.8	180.9	194.3	201.0	210.7	230.0
147.5°	175.7	171.3	166.8	171.3	175.7	176.8	184.9	195.7	201.0	208.7	223.9
150°	179.0	174.9	170.9	174.9	179.0	180.0	187.0	196.4	201.0	207.5	220.3
152.5°	181.3	178.2	175.2	178.2	181.3	182.0	188.4	196.8	201.0	206.5	217.5
155°	186.0	183.7	181.5	183.7	186.0	186.6	191.4	197.8	201.0	205.4	214.1
157.5°	190.5	188.3	186.1	188.3	190.5	191.0	194.4	198.8	201.0	204.4	211.2
160°	192.7	191.0	189.3	191.0	192.7	193.1	195.8	199.3	201.0	203.9	209.8
162.5°	194.9	193.7	192.4	193.7	194.9	195.3	197.2	199.8	201.0	203.5	208.4
165°	198.1	196.9	195.8	196.9	198.1	198.4	199.3	200.5	201.0	202.8	206.3
167.5°	200.0	199.5	198.9	199.5	200.0	200.2	200.9	201.9	202.4	203.6	205.9
170°	202.1	201.6	201.0	201.6	202.1	202.2	202.3	202.4	202.4	203.6	205.9
172.5°	202.4	202.2	202.1	202.2	202.4	202.4	202.4	202.4	202.4	203.3	205.1
175°	203.7	203.7	203.7	203.7	203.7	203.7	203.2	202.7	202.4	202.9	204.1
177.5°	203.7	203.7	203.7	203.7	203.7	203.7	203.3	202.8	202.7	203.1	204.0
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2	967.2
2.5°	933.4	930.6	934.3	924.2	934.3	930.6	933.4	939.7	934.3	937.9	941.7
5°	819.0	814.4	799.8	787.8	799.8	814.4	819.0	838.2	847.3	863.8	885.8
7.5°	732.1	728.4	724.7	717.4	724.7	728.4	732.1	737.5	746.7	761.4	777.8
10°	712.9	713.8	719.2	718.3	719.2	713.8	712.9	711.0	708.2	711.0	721.1
12.5°	762.3	770.5	800.7	798.8	800.7	770.5	762.3	725.6	701.0	696.3	698.2
15°	819.0	821.8	828.1	829.0	828.1	821.8	819.0	804.4	730.3	698.2	688.1
17.5°	824.5	825.4	830.0	830.0	830.0	825.4	824.5	818.0	793.4	750.4	693.6
20°	819.9	821.8	830.9	832.7	830.9	821.8	819.9	811.7	797.9	782.4	739.4
22.5°	818.0	821.8	829.0	828.1	829.0	821.8	818.0	805.3	793.4	782.4	765.0
25°	808.9	808.9	809.8	810.8	809.8	808.9	808.9	798.8	775.1	772.3	762.3
27.5°	789.7	791.6	797.0	796.1	797.0	791.6	789.7	786.0	760.5	757.7	750.4
30°	772.3	770.5	765.9	762.3	765.9	770.5	772.3	766.8	741.2	733.9	735.7
32.5°	743.1	738.4	733.9	731.2	733.9	738.4	743.1	741.2	722.0	712.0	713.8
35°	708.2	709.2	708.2	705.5	708.2	709.2	708.2	710.1	698.2	689.1	688.1
37.5°	683.6	685.4	684.5	680.8	684.5	685.4	683.6	681.8	665.2	662.5	664.3
40°	657.9	658.9	657.9	655.2	657.9	658.9	657.9	654.3	631.4	632.3	638.7
42.5°	633.2	632.3	629.6	627.7	629.6	632.3	633.2	627.7	598.5	595.7	607.6
45°	604.9	605.8	600.3	597.5	600.3	605.8	604.9	601.2	571.0	563.7	571.9
47.5°	576.5	576.5	571.9	569.2	571.9	576.5	576.5	571.9	539.9	532.6	537.1
50°	546.3	545.4	539.0	538.1	539.0	545.4	546.3	543.6	509.7	503.3	503.3
52.5°	511.5	511.5	512.4	514.3	512.4	511.5	511.5	512.4	482.3	475.8	474.0
55°	481.3	482.3	488.7	490.5	488.7	482.3	481.3	481.3	453.9	447.5	443.8
57.5°	450.2	450.2	454.8	454.8	454.8	450.2	450.2	448.4	421.9	416.3	414.5
60°	414.5	416.3	420.0	419.1	420.0	416.3	414.5	412.7	389.8	386.1	379.8
62.5°	377.0	378.9	379.8	378.0	379.8	378.9	377.0	371.5	357.8	355.0	346.8
65°	337.7	339.5	340.4	338.6	340.4	339.5	337.7	334.9	324.8	320.3	312.9
67.5°	297.4	296.5	295.5	299.3	295.5	296.5	297.4	293.7	287.4	283.7	273.6
70°	256.2	256.2	255.3	257.2	255.3	256.2	256.2	253.5	249.8	247.1	238.0
72.5°	212.3	211.4	215.0	212.3	215.0	211.4	212.3	211.4	209.6	206.9	197.7
75°	169.3	171.1	169.3	172.0	169.3	171.1	169.3	170.2	169.3	167.5	161.1
77.5°	129.0	130.9	129.0	129.0	129.0	130.9	129.0	129.9	129.9	129.9	124.4
80°	91.5	90.6	90.6	89.7	90.6	90.6	91.5	91.5	92.4	90.6	88.8
82.5°	58.6	57.7	57.7	59.5	57.7	57.7	58.6	59.5	57.7	57.7	57.7
85°	32.0	32.9	31.1	31.1	31.1	32.9	32.0	30.2	32.0	32.0	31.1
87.5°	11.9	11.0	11.0	11.0	11.0	11.0	11.9	12.8	12.8	12.8	13.7
90°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.9	9.2	10.4	8.9
92.5°	25.9	24.9	20.7	16.6	20.7	24.9	25.9	36.7	51.2	58.5	51.4
95°	88.1	85.1	72.5	60.0	72.5	85.1	88.1	115.7	152.5	170.9	144.4
97.5°	203.5	197.6	173.7	149.9	173.7	197.6	203.5	221.0	244.1	255.8	211.5
100°	285.7	278.6	250.3	222.0	250.3	278.6	285.7	284.4	282.7	281.9	232.8
102.5°	356.0	349.9	325.7	301.4	325.7	349.9	356.0	333.7	304.1	289.3	239.4
105°	438.0	434.7	421.7	408.6	421.7	434.7	438.0	388.1	321.6	288.4	240.1
107.5°	480.7	481.5	484.6	487.7	484.6	481.5	480.7	411.2	318.5	272.1	229.5
110°	491.6	494.9	508.6	522.2	508.6	494.9	491.6	413.9	310.3	258.4	220.0



TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	484.6	489.7	510.7	531.6	510.7	489.7	484.6	405.1	299.0	246.0	211.8
115°	460.9	468.2	497.1	526.1	497.1	468.2	460.9	384.3	282.2	231.0	202.2
117.5°	428.3	436.3	468.5	500.6	468.5	436.3	428.3	359.1	267.0	220.9	196.3
120°	406.3	414.2	445.4	476.6	445.4	414.2	406.3	343.1	258.9	216.8	194.4
122.5°	384.3	392.1	422.8	453.5	422.8	392.1	384.3	327.4	251.5	213.6	193.3
125°	355.2	362.3	390.6	419.0	390.6	362.3	355.2	306.9	242.4	210.2	192.5
127.5°	331.8	337.8	361.8	385.7	361.8	337.8	331.8	290.4	235.0	207.3	191.9
130°	317.0	322.6	344.7	366.8	344.7	322.6	317.0	280.1	230.9	206.2	192.2
132.5°	304.5	309.4	329.2	349.0	329.2	309.4	304.5	271.4	227.3	205.3	192.5
135°	286.7	291.0	308.0	325.1	308.0	291.0	286.7	259.1	222.1	203.7	192.3
137.5°	273.6	277.1	291.1	305.0	291.1	277.1	273.6	250.2	219.0	203.4	193.5
140°	263.1	266.3	279.3	292.4	279.3	266.3	263.1	242.9	215.9	202.4	193.7
142.5°	255.7	258.5	269.7	281.0	269.7	258.5	255.7	238.0	214.2	202.4	194.3
145°	244.6	246.7	255.2	263.8	255.2	246.7	244.6	230.0	210.7	201.0	194.3
147.5°	235.3	237.1	244.1	251.2	244.1	237.1	235.3	223.9	208.7	201.0	195.7
150°	230.0	231.4	237.1	242.9	237.1	231.4	230.0	220.3	207.5	201.0	196.4
152.5°	225.8	226.9	231.1	235.5	231.1	226.9	225.8	217.5	206.5	201.0	196.8
155°	220.7	221.4	224.2	227.1	224.2	221.4	220.7	214.1	205.4	201.0	197.8
157.5°	216.3	216.9	218.9	220.9	218.9	216.9	216.3	211.2	204.4	201.0	198.8
160°	214.1	214.4	215.6	216.8	215.6	214.4	214.1	209.8	203.9	201.0	199.3
162.5°	212.1	212.4	213.5	214.6	213.5	212.4	212.1	208.4	203.5	201.0	199.8
165°	208.9	209.2	210.4	211.6	210.4	209.2	208.9	206.3	202.8	201.0	200.5
167.5°	207.6	207.7	208.2	208.7	208.2	207.7	207.6	205.9	203.6	202.4	201.9
170°	207.6	207.6	207.6	207.6	207.6	207.6	207.6	205.9	203.6	202.4	202.4
172.5°	206.5	206.4	205.9	205.6	205.9	206.4	206.5	205.1	203.3	202.4	202.4
175°	205.0	205.0	205.0	205.0	205.0	205.0	205.0	204.1	202.9	202.4	202.7
177.5°	204.8	204.7	204.1	203.7	204.1	204.7	204.8	204.0	203.1	202.7	202.8
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	967.2	967.2	967.2	967.2	967.2
2.5°	955.3	959.9	962.7	966.3	975.5
5°	918.7	936.1	941.7	955.3	971.8
7.5°	838.2	891.3	905.9	938.8	964.5
10°	760.5	813.5	839.1	916.9	955.3
12.5°	721.1	752.2	769.6	878.4	942.6
15°	696.3	718.3	731.2	827.2	927.9
17.5°	677.1	692.7	701.9	776.9	907.7
20°	665.2	672.6	680.8	740.3	884.9
22.5°	657.0	652.5	658.9	714.7	853.8
25°	651.6	634.1	641.5	694.5	817.1
27.5°	656.1	617.6	620.5	676.2	778.7
30°	657.0	597.5	598.5	657.0	735.7
32.5°	650.7	576.5	577.4	633.2	687.2
35°	635.0	551.8	550.9	605.8	621.4
37.5°	614.0	525.2	525.2	575.6	549.1
40°	588.4	498.8	501.5	536.2	485.0
42.5°	557.2	470.4	474.0	484.1	437.4
45°	523.4	442.9	445.6	409.1	400.8
47.5°	485.9	414.5	415.4	339.5	388.9
50°	441.1	385.2	381.6	291.0	388.0
52.5°	401.7	353.2	342.2	263.5	352.3
55°	363.3	319.4	295.5	242.5	326.7
57.5°	329.5	275.4	252.6	217.8	321.2
60°	298.3	232.4	215.0	191.2	294.6
62.5°	272.7	200.4	196.8	172.9	267.2
65°	245.2	178.5	177.6	157.4	227.0
67.5°	218.7	163.8	162.9	142.7	172.9
70°	190.3	148.3	146.5	127.2	128.1
72.5°	161.1	130.9	129.0	114.3	106.2
75°	131.8	110.7	109.8	99.8	86.1
77.5°	103.4	87.9	89.7	80.5	63.1
80°	74.1	64.0	65.9	57.7	47.6
82.5°	49.4	42.1	43.9	36.6	32.0
85°	27.5	23.8	24.7	19.2	14.6
87.5°	12.8	11.0	11.0	7.3	4.5
90°	6.0	3.8	3.5	2.5	1.4
92.5°	37.1	26.4	24.0	14.7	5.5
95°	91.2	51.4	47.1	30.1	13.1
97.5°	122.9	56.4	52.7	37.7	22.6
100°	134.4	60.7	57.3	43.7	30.1
102.5°	139.7	64.9	61.8	49.1	36.4
105°	143.6	71.2	68.5	57.8	47.0
107.5°	144.4	80.5	78.0	67.9	57.9
110°	143.3	85.7	83.4	74.4	65.3



TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	143.3	92.0	89.8	81.2	72.6
115°	144.6	101.4	99.4	91.5	83.5
117.5°	147.3	110.5	108.7	101.5	94.3
120°	149.5	115.9	114.2	107.4	100.6
122.5°	152.6	122.2	120.4	113.6	106.7
125°	156.9	130.3	128.7	122.4	116.2
127.5°	161.1	138.0	136.4	130.1	123.8
130°	164.2	143.2	141.4	134.7	127.9
132.5°	166.7	147.5	145.7	139.0	132.2
135°	169.5	152.4	150.8	144.6	138.4
137.5°	173.6	158.6	157.1	151.0	144.9
140°	176.1	162.9	161.5	155.8	150.2
142.5°	178.1	166.0	164.7	159.5	154.3
145°	180.9	170.8	169.6	165.1	160.6
147.5°	184.9	176.8	175.7	171.3	166.8
150°	187.0	180.0	179.0	174.9	170.9
152.5°	188.4	182.0	181.3	178.2	175.2
155°	191.4	186.6	186.0	183.7	181.5
157.5°	194.4	191.0	190.5	188.3	186.1
160°	195.8	193.1	192.7	191.0	189.3
162.5°	197.2	195.3	194.9	193.7	192.4
165°	199.3	198.4	198.1	196.9	195.8
167.5°	200.9	200.2	200.0	199.5	198.9
170°	202.3	202.2	202.1	201.6	201.0
172.5°	202.4	202.4	202.4	202.2	202.1
175°	203.2	203.7	203.7	203.7	203.7
177.5°	203.3	203.7	203.7	203.7	203.7
180°	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P933840

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-4000K

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.34	13.36	13.15	14.19	15.22	15.16	16.18	15.97	17.02	18.05
	3H	12.83	13.74	13.65	14.59	15.65	16.52	17.44	17.34	18.28	19.34
	4H	13.03	13.89	13.87	14.74	15.81	16.97	17.83	17.81	18.69	19.76
	6H	13.15	13.95	14.01	14.81	15.89	17.26	18.06	18.12	18.92	20.00
	8H	13.16	13.92	14.02	14.80	15.88	17.34	18.10	18.20	18.98	20.06
	12H	13.14	13.86	14.00	14.73	15.84	17.38	18.11	18.25	18.98	20.09
4H	2H	13.39	14.25	14.24	15.11	16.18	15.59	16.46	16.44	17.31	18.38
	3H	14.43	15.15	15.29	16.04	17.12	17.11	17.83	17.97	18.72	19.80
	4H	14.71	15.37	15.59	16.25	17.36	17.65	18.30	18.52	19.18	20.29
	6H	14.85	15.42	15.73	16.32	17.44	18.02	18.58	18.90	19.49	20.60
	8H	14.86	15.39	15.75	16.29	17.42	18.13	18.66	19.02	19.56	20.69
	12H	14.83	15.31	15.74	16.23	17.36	18.19	18.67	19.10	19.59	20.72
8H	4H	15.18	15.71	16.07	16.61	17.74	17.78	18.31	18.67	19.21	20.34
	6H	15.45	15.89	16.36	16.83	17.96	18.22	18.66	19.14	19.60	20.73
	8H	15.49	15.88	16.42	16.81	17.96	18.38	18.76	19.30	19.70	20.84
	12H	15.48	15.83	16.41	16.75	17.95	18.48	18.82	19.41	19.75	20.95
12H	4H	15.19	15.67	16.10	16.59	17.72	17.75	18.23	18.66	19.15	20.28
	6H	15.51	15.90	16.44	16.83	17.98	18.22	18.61	19.15	19.55	20.69
	8H	15.58	15.93	16.51	16.85	18.05	18.39	18.73	19.32	19.66	20.86