

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: P933936

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

**Test Information**

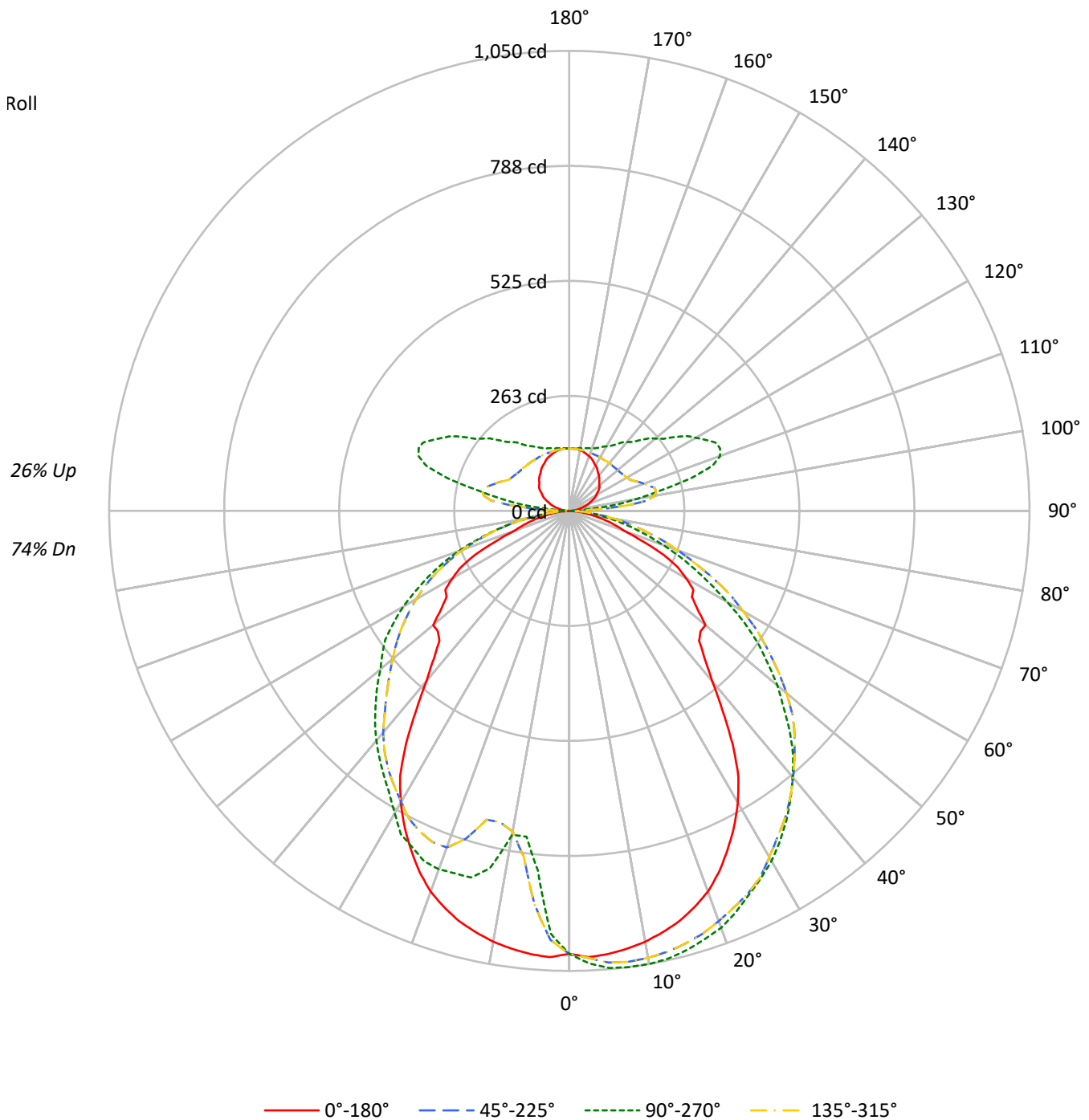
Test Method: LM-79-2019  
Report Number: P933936  
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3546.4 lumens  
Efficiency: N/A  
Efficacy: 118.2 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: Semi-Direct  
  
Input Watts (W): 30  
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										
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	50	30	10	0														
RCR	0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74																			
	1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62																			
	2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52																			
	3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44																			
	4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38																			
	5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36	33																			
	6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29																			
	7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26																			
	8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23																			
	9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21																			
	10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19																			

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

	0°	90°	180°	270°
0°	9379	9379	9379	9379
5°	9439	9469	9439	7445
10°	9366	9327	9366	6668
15°	9254	9126	9254	7619
20°	9049	8885	9049	7635
25°	8643	8536	8643	7473
30°	8121	8246	8121	7118
35°	7230	7879	7230	6728
40°	6014	7448	6014	6433
45°	5363	6943	5363	6094
50°	5684	6340	5684	5753
55°	5334	5691	5334	5556
60°	5477	4833	5477	5089
65°	4941	3995	4941	4467
70°	3399	3183	3399	3743
75°	2948	2353	2948	2819
80°	2326	1557	2326	1694
85°	1267	823	1267	700

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8235 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	2.6
10°-20°	259.1	7.3
20°-30°	400.5	11.3
30°-40°	478.1	13.5
40°-50°	480.9	13.6
50°-60°	418.4	11.8
60°-70°	296.7	8.4
70°-80°	156.9	4.4
80°-90°	39.6	1.1
90°-100°	69.6	2.0
100°-110°	182.9	5.2
110°-120°	189.6	5.3
120°-130°	152.1	4.3
130°-140°	119.3	3.4
140°-150°	91.6	2.6
150°-160°	66.0	1.9
160°-170°	40.4	1.1
170°-180°	13.6	0.4
0°-30°	750.8	21.2
0°-40°	1228.9	34.7
0°-60°	2128.2	60.0
0°-90°	2621.4	73.9
90°-120°	442.1	12.5
90°-150°	805.1	22.7
90°-180°	925.0	26.1
0°-180°	3546.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1011	1011	1011	1011	1011	
5°	1016	1047	1016	823	1016	96
15°	970	1038	970	866	970	273
25°	854	968	854	847	854	392
35°	649	864	649	737	649	402
45°	419	712	419	624	419	336
55°	342	525	342	513	342	314
65°	237	316	237	354	237	227
75°	90	150	90	180	90	95
85°	15	38	15	32	15	21
90°	1	4	1	4	1	1
95°	9	42	9	42	9	10
105°	33	286	33	286	33	35
115°	58	369	58	369	58	58
125°	81	294	81	294	81	72
135°	97	228	97	228	97	75
145°	112	185	112	185	112	70
155°	127	159	127	159	127	58
165°	137	148	137	148	137	39
175°	143	144	143	144	143	14
180°	143	143	143	143	143	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1019.4	1019.4	1025.2	1027.1	1027.1	1024.3	1021.4	1024.3	1032.9	1035.7	1034.8
5°	1015.6	1023.3	1033.8	1035.7	1037.7	1036.7	1034.8	1036.7	1046.3	1048.2	1049.1
7.5°	1007.9	1022.4	1035.7	1038.6	1041.5	1038.6	1037.7	1039.6	1049.1	1051.0	1051.0
10°	998.4	1018.4	1033.8	1035.7	1038.6	1035.7	1035.7	1039.6	1049.1	1051.0	1052.0
12.5°	985.0	1012.7	1027.1	1029.1	1032.9	1031.9	1031.0	1034.8	1044.4	1046.3	1046.3
15°	969.7	1002.2	1015.6	1017.5	1024.3	1022.4	1022.4	1026.2	1036.7	1039.6	1038.6
17.5°	948.6	988.8	1004.1	1007.0	1011.7	1010.8	1011.7	1015.6	1025.2	1027.1	1028.1
20°	924.7	970.6	988.8	991.7	996.4	996.4	996.4	1001.2	1010.8	1014.6	1014.6
22.5°	892.2	951.5	970.6	972.5	978.3	978.3	980.2	986.9	995.5	996.4	996.4
25°	854.0	930.5	946.7	952.5	958.2	961.1	963.9	967.8	970.6	969.7	970.6
27.5°	813.8	903.7	924.7	928.6	936.2	939.1	942.9	943.9	944.8	947.7	945.8
30°	768.9	866.4	898.0	901.8	914.2	916.1	912.3	914.2	919.0	920.9	922.8
32.5°	718.2	810.9	870.2	878.8	890.3	884.6	883.6	886.5	894.1	894.1	896.0
35°	649.4	767.9	844.4	852.1	860.7	854.0	857.8	858.8	863.5	866.4	865.5
37.5°	573.8	730.6	817.6	823.4	830.1	821.5	827.2	830.1	833.9	832.0	832.0
40°	506.9	672.3	786.1	789.9	795.6	789.0	794.7	796.6	798.5	796.6	795.6
42.5°	457.2	608.2	752.6	757.4	753.6	758.4	760.3	764.1	761.2	757.4	757.4
45°	418.9	591.0	716.3	722.0	716.3	723.9	726.8	726.8	718.2	716.3	715.3
47.5°	406.5	556.6	679.9	679.9	677.1	686.6	691.4	684.7	676.1	673.3	673.3
50°	405.5	518.4	630.2	626.4	639.8	651.3	646.5	639.8	633.1	622.6	622.6
52.5°	368.2	471.5	566.2	580.5	601.5	608.2	600.6	593.9	582.4	577.6	573.8
55°	341.5	422.7	507.8	536.5	558.5	567.1	552.8	546.1	528.9	526.0	524.1
57.5°	335.6	352.0	454.3	490.6	517.4	516.4	507.8	495.4	481.1	478.2	477.2
60°	307.9	254.3	396.9	439.9	467.7	464.8	457.2	445.7	432.3	430.4	428.5
62.5°	279.2	184.5	331.8	380.7	419.9	418.9	412.2	395.0	385.4	380.7	376.8
65°	237.1	154.9	236.2	316.5	373.0	374.9	360.6	348.1	337.5	331.8	330.8
67.5°	180.7	126.2	159.7	263.9	328.0	326.1	307.9	302.2	288.8	285.9	280.2
70°	133.9	84.1	110.9	214.2	284.0	279.2	264.9	258.2	245.7	239.0	235.2
72.5°	110.9	67.9	81.3	166.4	239.0	233.3	220.9	213.2	202.7	197.0	193.2
75°	89.9	71.7	62.2	123.3	194.1	190.3	178.8	171.2	162.6	154.9	155.9
77.5°	66.0	66.9	49.7	90.8	153.9	148.2	141.5	132.0	128.1	120.5	120.5
80°	49.7	52.6	37.3	62.2	110.9	110.9	105.2	98.5	91.8	88.0	88.0
82.5°	33.5	33.5	27.7	39.2	75.5	72.7	68.8	66.9	63.1	61.2	61.2
85°	15.3	19.1	17.2	23.9	41.1	43.0	43.0	41.1	40.2	38.2	39.2
87.5°	4.8	8.6	10.5	13.4	21.0	22.0	22.9	22.9	22.9	23.9	23.9
90°	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9	3.6	3.6
92.5°	3.8	10.3	16.8	18.5	26.0	36.0	41.0	36.0	25.8	18.2	17.4
95°	9.2	21.1	33.1	36.0	64.0	101.2	119.8	106.9	81.1	61.8	59.6
97.5°	15.9	26.4	36.9	39.6	86.2	148.2	179.3	171.2	154.8	142.6	138.4
100°	21.0	30.6	40.2	42.6	94.2	163.1	197.5	198.1	199.4	200.2	195.3
102.5°	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.9	249.5	245.2
105°	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.5	272.0	306.9	304.6
107.5°	40.6	47.6	54.7	56.4	101.2	160.8	190.7	223.2	288.1	336.9	337.4
110°	45.8	52.1	58.4	60.0	100.4	154.2	181.1	217.4	290.0	344.5	346.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	50.9	56.9	62.9	64.4	100.4	148.4	172.4	209.6	283.9	339.6	343.3
115°	58.5	64.1	69.6	71.0	101.4	141.8	162.0	197.7	269.4	323.0	328.1
117.5°	66.1	71.1	76.2	77.5	103.3	137.6	154.8	187.1	251.7	300.1	305.8
120°	70.5	75.3	80.0	81.2	104.7	136.2	151.8	181.4	240.5	284.8	290.2
122.5°	74.8	79.6	84.3	85.6	106.9	135.4	149.6	176.2	229.4	269.3	274.6
125°	81.4	85.8	90.2	91.3	110.0	134.8	147.3	169.8	215.0	248.9	253.9
127.5°	86.7	91.2	95.6	96.8	112.9	134.4	145.2	164.7	203.5	232.5	236.8
130°	89.6	94.4	99.2	100.4	115.1	134.7	144.5	161.8	196.3	222.2	226.0
132.5°	92.7	97.4	102.2	103.4	116.8	134.8	143.8	159.3	190.2	213.4	216.9
135°	97.1	101.4	105.8	106.8	118.8	134.7	142.7	155.6	181.5	200.9	203.9
137.5°	101.5	105.9	110.2	111.2	121.6	135.5	142.5	153.4	175.3	191.7	194.2
140°	105.3	109.2	113.2	114.2	123.3	135.7	141.8	151.3	170.2	184.4	186.6
142.5°	108.1	111.8	115.4	116.4	124.9	136.2	141.8	150.1	166.8	179.2	181.2
145°	112.5	115.7	119.0	119.7	126.8	136.2	140.8	147.6	161.2	171.4	173.0
147.5°	116.9	120.0	123.2	123.9	129.6	137.1	140.8	146.2	156.9	164.9	166.2
150°	119.8	122.6	125.5	126.1	131.0	137.6	140.8	145.3	154.4	161.2	162.2
152.5°	122.8	124.9	127.0	127.6	132.0	137.9	140.8	144.7	152.4	158.2	159.0
155°	127.2	128.7	130.3	130.7	134.1	138.6	140.8	143.9	150.1	154.7	155.2
157.5°	130.4	132.0	133.5	133.9	136.2	139.3	140.8	143.2	148.0	151.6	151.9
160°	132.6	133.8	135.0	135.3	137.1	139.6	140.8	142.9	147.0	150.0	150.2
162.5°	134.8	135.7	136.6	136.8	138.2	140.0	140.8	142.6	146.0	148.6	148.8
165°	137.2	138.0	138.8	139.0	139.6	140.5	140.8	142.1	144.6	146.4	146.6
167.5°	139.4	139.8	140.2	140.3	140.8	141.4	141.8	142.6	144.2	145.4	145.5
170°	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.6	144.2	145.4	145.4
172.5°	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.5	143.7	144.7	144.6
175°	142.7	142.7	142.7	142.7	142.4	142.0	141.8	142.2	143.0	143.6	143.6
177.5°	142.7	142.7	142.7	142.7	142.5	142.2	142.0	142.3	143.0	143.4	143.3
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1036.7	1033.8	1036.7	1034.8	1035.7	1032.9	1024.3	1021.4	1024.3	1027.1	1027.1
5°	1049.1	1047.2	1049.1	1049.1	1048.2	1046.3	1036.7	1034.8	1036.7	1037.7	1035.7
7.5°	1053.0	1050.1	1053.0	1051.0	1051.0	1049.1	1039.6	1037.7	1038.6	1041.5	1038.6
10°	1053.0	1050.1	1053.0	1052.0	1051.0	1049.1	1039.6	1035.7	1035.7	1038.6	1035.7
12.5°	1048.2	1046.3	1048.2	1046.3	1046.3	1044.4	1034.8	1031.0	1031.9	1032.9	1029.1
15°	1040.5	1037.7	1040.5	1038.6	1039.6	1036.7	1026.2	1022.4	1022.4	1024.3	1017.5
17.5°	1029.1	1025.2	1029.1	1028.1	1027.1	1025.2	1015.6	1011.7	1010.8	1011.7	1007.0
20°	1015.6	1012.7	1015.6	1014.6	1014.6	1010.8	1001.2	996.4	996.4	996.4	991.7
22.5°	994.5	991.7	994.5	996.4	996.4	995.5	986.9	980.2	978.3	978.3	972.5
25°	970.6	967.8	970.6	970.6	969.7	970.6	967.8	963.9	961.1	958.2	952.5
27.5°	947.7	945.8	947.7	945.8	947.7	944.8	943.9	942.9	939.1	936.2	928.6
30°	924.7	922.8	924.7	922.8	920.9	919.0	914.2	912.3	916.1	914.2	901.8
32.5°	896.0	894.1	896.0	896.0	894.1	894.1	886.5	883.6	884.6	890.3	878.8
35°	866.4	863.5	866.4	865.5	866.4	863.5	858.8	857.8	854.0	860.7	852.1
37.5°	832.0	829.1	832.0	832.0	832.0	833.9	830.1	827.2	821.5	830.1	823.4
40°	796.6	792.8	796.6	795.6	796.6	798.5	796.6	794.7	789.0	795.6	789.9
42.5°	756.4	755.5	756.4	757.4	757.4	761.2	764.1	760.3	758.4	753.6	757.4
45°	713.4	711.5	713.4	715.3	716.3	718.2	726.8	726.8	723.9	716.3	722.0
47.5°	667.5	662.7	667.5	673.3	673.3	676.1	684.7	691.4	686.6	677.1	679.9
50°	618.8	619.7	618.8	622.6	622.6	633.1	639.8	646.5	651.3	639.8	626.4
52.5°	570.9	570.0	570.9	573.8	577.6	582.4	593.9	600.6	608.2	601.5	580.5
55°	523.1	525.0	523.1	524.1	526.0	528.9	546.1	552.8	567.1	558.5	536.5
57.5°	475.3	472.5	475.3	477.2	478.2	481.1	495.4	507.8	516.4	517.4	490.6
60°	419.9	416.0	419.9	428.5	430.4	432.3	445.7	457.2	464.8	467.7	439.9
62.5°	371.1	364.4	371.1	376.8	380.7	385.4	395.0	412.2	418.9	419.9	380.7
65°	319.4	316.5	319.4	330.8	331.8	337.5	348.1	360.6	374.9	373.0	316.5
67.5°	272.5	272.5	272.5	280.2	285.9	288.8	302.2	307.9	326.1	328.0	263.9
70°	229.5	228.5	229.5	235.2	239.0	245.7	258.2	264.9	279.2	284.0	214.2
72.5°	188.4	187.4	188.4	193.2	197.0	202.7	213.2	220.9	233.3	239.0	166.4
75°	152.0	150.1	152.0	155.9	154.9	162.6	171.2	178.8	190.3	194.1	123.3
77.5°	116.7	116.7	116.7	120.5	120.5	128.1	132.0	141.5	148.2	153.9	90.8
80°	87.0	86.1	87.0	88.0	88.0	91.8	98.5	105.2	110.9	110.9	62.2
82.5°	61.2	59.3	61.2	61.2	61.2	63.1	66.9	68.8	72.7	75.5	39.2
85°	38.2	38.2	38.2	39.2	38.2	40.2	41.1	43.0	43.0	41.1	23.9
87.5°	24.9	23.9	24.9	23.9	23.9	22.9	22.9	22.9	22.0	21.0	13.4
90°	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2	4.2	2.7
92.5°	14.5	11.7	14.5	17.4	18.2	25.8	36.0	41.0	36.0	26.0	18.5
95°	50.9	42.1	50.9	59.6	61.8	81.1	106.9	119.8	101.2	64.0	36.0
97.5°	121.7	105.1	121.7	138.4	142.6	154.8	171.2	179.3	148.2	86.2	39.6
100°	175.5	155.6	175.5	195.3	200.2	199.4	198.1	197.5	163.1	94.2	42.6
102.5°	228.1	211.1	228.1	245.2	249.5	233.9	213.1	202.7	167.8	97.9	45.5
105°	295.6	286.4	295.6	304.6	306.9	272.0	225.5	202.1	168.3	100.7	49.9
107.5°	339.6	341.8	339.6	337.4	336.9	288.1	223.2	190.7	160.8	101.2	56.4
110°	356.4	365.9	356.4	346.9	344.5	290.0	217.4	181.1	154.2	100.4	60.0





TEST NUMBER: P933936

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	357.9	372.5	357.9	343.3	339.6	283.9	209.6	172.4	148.4	100.4	64.4
115°	348.4	368.7	348.4	328.1	323.0	269.4	197.7	162.0	141.8	101.4	71.0
117.5°	328.3	350.8	328.3	305.8	300.1	251.7	187.1	154.8	137.6	103.3	77.5
120°	312.1	333.9	312.1	290.2	284.8	240.5	181.4	151.8	136.2	104.7	81.2
122.5°	296.2	317.8	296.2	274.6	269.3	229.4	176.2	149.6	135.4	106.9	85.6
125°	273.8	293.6	273.8	253.9	248.9	215.0	169.8	147.3	134.8	110.0	91.3
127.5°	253.5	270.2	253.5	236.8	232.5	203.5	164.7	145.2	134.4	112.9	96.8
130°	241.5	257.0	241.5	226.0	222.2	196.3	161.8	144.5	134.7	115.1	100.4
132.5°	230.7	244.6	230.7	216.9	213.4	190.2	159.3	143.8	134.8	116.8	103.4
135°	215.9	227.9	215.9	203.9	200.9	181.5	155.6	142.7	134.7	118.8	106.8
137.5°	204.0	213.8	204.0	194.2	191.7	175.3	153.4	142.5	135.5	121.6	111.2
140°	195.7	204.9	195.7	186.6	184.4	170.2	151.3	141.8	135.7	123.3	114.2
142.5°	189.0	196.9	189.0	181.2	179.2	166.8	150.1	141.8	136.2	124.9	116.4
145°	178.9	184.8	178.9	173.0	171.4	161.2	147.6	140.8	136.2	126.8	119.7
147.5°	171.1	176.0	171.1	166.2	164.9	156.9	146.2	140.8	137.1	129.6	123.9
150°	166.2	170.2	166.2	162.2	161.2	154.4	145.3	140.8	137.6	131.0	126.1
152.5°	162.0	165.0	162.0	159.0	158.2	152.4	144.7	140.8	137.9	132.0	127.6
155°	157.2	159.2	157.2	155.2	154.7	150.1	143.9	140.8	138.6	134.1	130.7
157.5°	153.4	154.8	153.4	151.9	151.6	148.0	143.2	140.8	139.3	136.2	133.9
160°	151.1	151.8	151.1	150.2	150.0	147.0	142.9	140.8	139.6	137.1	135.3
162.5°	149.5	150.3	149.5	148.8	148.6	146.0	142.6	140.8	140.0	138.2	136.8
165°	147.4	148.2	147.4	146.6	146.4	144.6	142.1	140.8	140.5	139.6	139.0
167.5°	145.8	146.2	145.8	145.5	145.4	144.2	142.6	141.8	141.4	140.8	140.3
170°	145.4	145.4	145.4	145.4	145.4	144.2	142.6	141.8	141.8	141.7	141.7
172.5°	144.3	144.0	144.3	144.6	144.7	143.7	142.5	141.8	141.8	141.8	141.8
175°	143.6	143.6	143.6	143.6	143.6	143.0	142.2	141.8	142.0	142.4	142.7
177.5°	143.0	142.7	143.0	143.3	143.4	143.0	142.3	142.0	142.2	142.5	142.7
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



TEST NUMBER: P933936

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1025.2	1019.4	1019.4	1009.8	1006.0	1003.1	998.4	984.0	980.2	976.4	982.1
5°	1033.8	1023.3	1015.6	998.4	984.0	978.3	960.1	925.7	902.7	885.5	876.0
7.5°	1035.7	1022.4	1007.9	981.1	946.7	931.4	876.0	812.9	795.6	780.3	770.8
10°	1033.8	1018.4	998.4	958.2	876.9	850.2	794.7	753.6	743.1	740.2	743.1
12.5°	1027.1	1012.7	985.0	918.0	804.3	786.1	753.6	729.7	727.8	732.5	758.4
15°	1015.6	1002.2	969.7	864.5	764.1	750.7	727.8	719.2	729.7	763.1	840.6
17.5°	1004.1	988.8	948.6	811.9	733.5	723.9	707.7	724.9	784.2	829.1	854.9
20°	988.8	970.6	924.7	773.7	711.5	702.9	695.2	772.7	817.6	833.9	848.2
22.5°	970.6	951.5	892.2	746.9	688.6	681.9	686.6	799.5	817.6	829.1	841.5
25°	946.7	930.5	854.0	725.8	670.4	662.7	680.9	796.6	807.1	810.0	834.9
27.5°	924.7	903.7	813.8	706.7	648.4	645.5	685.7	784.2	791.8	794.7	821.5
30°	898.0	866.4	768.9	686.6	625.4	624.5	686.6	768.9	767.0	774.6	801.4
32.5°	870.2	810.9	718.2	661.8	603.5	602.5	679.9	745.9	744.0	754.5	774.6
35°	844.4	767.9	649.4	633.1	575.7	576.7	663.7	719.2	720.1	729.7	742.1
37.5°	817.6	730.6	573.8	601.5	549.0	549.0	641.7	694.3	692.4	695.2	712.5
40°	786.1	672.3	506.9	560.4	524.1	521.2	614.9	667.5	660.8	659.9	683.8
42.5°	752.6	608.2	457.2	505.9	495.4	491.6	582.4	635.0	622.6	625.4	656.0
45°	716.3	591.0	418.9	427.5	465.8	462.9	547.0	597.7	589.1	596.8	628.3
47.5°	679.9	556.6	406.5	354.8	434.2	433.3	507.8	561.4	556.6	564.2	597.7
50°	630.2	518.4	405.5	304.1	398.8	402.7	461.0	526.0	526.0	532.7	568.1
52.5°	566.2	471.5	368.2	275.4	357.7	369.2	419.9	495.4	497.3	504.0	535.6
55°	507.8	422.7	341.5	253.4	308.9	333.7	379.7	463.8	467.7	474.4	503.1
57.5°	454.3	352.0	335.6	227.6	263.9	287.8	344.3	433.3	435.2	440.9	468.6
60°	396.9	254.3	307.9	199.8	224.7	242.9	311.7	396.9	403.6	407.4	431.3
62.5°	331.8	184.5	279.2	180.7	205.6	209.4	284.9	362.5	371.1	374.0	388.3
65°	236.2	154.9	237.1	164.5	185.5	186.5	256.3	327.0	334.7	339.4	350.1
67.5°	159.7	126.2	180.7	149.2	170.2	171.2	228.5	285.9	296.4	300.2	306.9
70°	110.9	84.1	133.9	132.9	153.0	154.9	198.9	248.6	258.2	261.0	264.9
72.5°	81.3	67.9	110.9	119.5	134.8	136.7	168.3	206.5	216.1	219.0	220.9
75°	62.2	71.7	89.9	104.2	114.7	115.7	137.7	168.3	175.0	176.9	177.9
77.5°	49.7	66.9	66.0	84.1	93.7	91.8	108.0	130.0	135.8	135.8	135.8
80°	37.3	52.6	49.7	60.2	68.8	66.9	77.5	92.8	94.7	96.6	95.6
82.5°	27.7	33.5	33.5	38.2	45.9	44.0	51.6	60.2	60.2	60.2	62.2
85°	17.2	19.1	15.3	20.1	25.8	24.9	28.7	32.5	33.5	33.5	31.6
87.5°	10.5	8.6	4.8	7.6	11.5	11.5	13.4	14.3	13.4	13.4	13.4
90°	2.5	1.7	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9
92.5°	16.8	10.3	3.8	10.3	16.8	18.5	26.0	36.0	41.0	36.0	25.8
95°	33.1	21.1	9.2	21.1	33.1	36.0	64.0	101.2	119.8	106.9	81.1
97.5°	36.9	26.4	15.9	26.4	36.9	39.6	86.2	148.2	179.3	171.2	154.8
100°	40.2	30.6	21.0	30.6	40.2	42.6	94.2	163.1	197.5	198.1	199.4
102.5°	43.3	34.3	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.9
105°	48.0	40.5	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.5	272.0
107.5°	54.7	47.6	40.6	47.6	54.7	56.4	101.2	160.8	190.7	223.2	288.1
110°	58.4	52.1	45.8	52.1	58.4	60.0	100.4	154.2	181.1	217.4	290.0



TEST NUMBER: P933936

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	62.9	56.9	50.9	56.9	62.9	64.4	100.4	148.4	172.4	209.6	283.9
115°	69.6	64.1	58.5	64.1	69.6	71.0	101.4	141.8	162.0	197.7	269.4
117.5°	76.2	71.1	66.1	71.1	76.2	77.5	103.3	137.6	154.8	187.1	251.7
120°	80.0	75.3	70.5	75.3	80.0	81.2	104.7	136.2	151.8	181.4	240.5
122.5°	84.3	79.6	74.8	79.6	84.3	85.6	106.9	135.4	149.6	176.2	229.4
125°	90.2	85.8	81.4	85.8	90.2	91.3	110.0	134.8	147.3	169.8	215.0
127.5°	95.6	91.2	86.7	91.2	95.6	96.8	112.9	134.4	145.2	164.7	203.5
130°	99.2	94.4	89.6	94.4	99.2	100.4	115.1	134.7	144.5	161.8	196.3
132.5°	102.2	97.4	92.7	97.4	102.2	103.4	116.8	134.8	143.8	159.3	190.2
135°	105.8	101.4	97.1	101.4	105.8	106.8	118.8	134.7	142.7	155.6	181.5
137.5°	110.2	105.9	101.5	105.9	110.2	111.2	121.6	135.5	142.5	153.4	175.3
140°	113.2	109.2	105.3	109.2	113.2	114.2	123.3	135.7	141.8	151.3	170.2
142.5°	115.4	111.8	108.1	111.8	115.4	116.4	124.9	136.2	141.8	150.1	166.8
145°	119.0	115.7	112.5	115.7	119.0	119.7	126.8	136.2	140.8	147.6	161.2
147.5°	123.2	120.0	116.9	120.0	123.2	123.9	129.6	137.1	140.8	146.2	156.9
150°	125.5	122.6	119.8	122.6	125.5	126.1	131.0	137.6	140.8	145.3	154.4
152.5°	127.0	124.9	122.8	124.9	127.0	127.6	132.0	137.9	140.8	144.7	152.4
155°	130.3	128.7	127.2	128.7	130.3	130.7	134.1	138.6	140.8	143.9	150.1
157.5°	133.5	132.0	130.4	132.0	133.5	133.9	136.2	139.3	140.8	143.2	148.0
160°	135.0	133.8	132.6	133.8	135.0	135.3	137.1	139.6	140.8	142.9	147.0
162.5°	136.6	135.7	134.8	135.7	136.6	136.8	138.2	140.0	140.8	142.6	146.0
165°	138.8	138.0	137.2	138.0	138.8	139.0	139.6	140.5	140.8	142.1	144.6
167.5°	140.2	139.8	139.4	139.8	140.2	140.3	140.8	141.4	141.8	142.6	144.2
170°	141.6	141.2	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.6	144.2
172.5°	141.8	141.7	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.5	143.7
175°	142.7	142.7	142.7	142.7	142.7	142.7	142.4	142.0	141.8	142.2	143.0
177.5°	142.7	142.7	142.7	142.7	142.7	142.7	142.5	142.2	142.0	142.3	143.0
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



TEST NUMBER: P933936

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	975.4	972.5	976.4	965.9	976.4	972.5	975.4	982.1	976.4	980.2	984.0
5°	855.9	851.1	835.8	823.4	835.8	851.1	855.9	876.0	885.5	902.7	925.7
7.5°	765.1	761.2	757.4	749.8	757.4	761.2	765.1	770.8	780.3	795.6	812.9
10°	745.0	745.9	751.7	750.7	751.7	745.9	745.0	743.1	740.2	743.1	753.6
12.5°	796.6	805.2	836.8	834.9	836.8	805.2	796.6	758.4	732.5	727.8	729.7
15°	855.9	858.8	865.5	866.4	865.5	858.8	855.9	840.6	763.1	729.7	719.2
17.5°	861.6	862.6	867.4	867.4	867.4	862.6	861.6	854.9	829.1	784.2	724.9
20°	856.8	858.8	868.3	870.2	868.3	858.8	856.8	848.2	833.9	817.6	772.7
22.5°	854.9	858.8	866.4	865.5	866.4	858.8	854.9	841.5	829.1	817.6	799.5
25°	845.4	845.4	846.3	847.3	846.3	845.4	845.4	834.9	810.0	807.1	796.6
27.5°	825.3	827.2	832.9	832.0	832.9	827.2	825.3	821.5	794.7	791.8	784.2
30°	807.1	805.2	800.4	796.6	800.4	805.2	807.1	801.4	774.6	767.0	768.9
32.5°	776.5	771.7	767.0	764.1	767.0	771.7	776.5	774.6	754.5	744.0	745.9
35°	740.2	741.1	740.2	737.3	740.2	741.1	740.2	742.1	729.7	720.1	719.2
37.5°	714.4	716.3	715.3	711.5	715.3	716.3	714.4	712.5	695.2	692.4	694.3
40°	687.6	688.6	687.6	684.7	687.6	688.6	687.6	683.8	659.9	660.8	667.5
42.5°	661.8	660.8	658.0	656.0	658.0	660.8	661.8	656.0	625.4	622.6	635.0
45°	632.1	633.1	627.4	624.5	627.4	633.1	632.1	628.3	596.8	589.1	597.7
47.5°	602.5	602.5	597.7	594.8	597.7	602.5	602.5	597.7	564.2	556.6	561.4
50°	570.9	570.0	563.3	562.3	563.3	570.0	570.9	568.1	532.7	526.0	526.0
52.5°	534.6	534.6	535.6	537.5	535.6	534.6	534.6	535.6	504.0	497.3	495.4
55°	503.1	504.0	510.7	512.6	510.7	504.0	503.1	503.1	474.4	467.7	463.8
57.5°	470.5	470.5	475.3	475.3	475.3	470.5	470.5	468.6	440.9	435.2	433.3
60°	433.3	435.2	439.0	438.0	439.0	435.2	433.3	431.3	407.4	403.6	396.9
62.5°	394.0	396.0	396.9	395.0	396.9	396.0	394.0	388.3	374.0	371.1	362.5
65°	352.9	354.8	355.8	353.9	355.8	354.8	352.9	350.1	339.4	334.7	327.0
67.5°	310.8	309.8	308.9	312.7	308.9	309.8	310.8	306.9	300.2	296.4	285.9
70°	267.7	267.7	266.8	268.7	266.8	267.7	267.7	264.9	261.0	258.2	248.6
72.5°	221.8	220.9	224.7	221.8	224.7	220.9	221.8	220.9	219.0	216.1	206.5
75°	176.9	178.8	176.9	179.8	176.9	178.8	176.9	177.9	176.9	175.0	168.3
77.5°	134.8	136.7	134.8	134.8	134.8	136.7	134.8	135.8	135.8	135.8	130.0
80°	95.6	94.7	94.7	93.7	94.7	94.7	95.6	95.6	96.6	94.7	92.8
82.5°	61.2	60.2	60.2	62.2	60.2	60.2	61.2	62.2	60.2	60.2	60.2
85°	33.5	34.4	32.5	32.5	32.5	34.4	33.5	31.6	33.5	33.5	32.5
87.5°	12.4	11.5	11.5	11.5	11.5	11.5	12.4	13.4	13.4	13.4	14.3
90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2
92.5°	18.2	17.4	14.5	11.7	14.5	17.4	18.2	25.8	36.0	41.0	36.0
95°	61.8	59.6	50.9	42.1	50.9	59.6	61.8	81.1	106.9	119.8	101.2
97.5°	142.6	138.4	121.7	105.1	121.7	138.4	142.6	154.8	171.2	179.3	148.2
100°	200.2	195.3	175.5	155.6	175.5	195.3	200.2	199.4	198.1	197.5	163.1
102.5°	249.5	245.2	228.1	211.1	228.1	245.2	249.5	233.9	213.1	202.7	167.8
105°	306.9	304.6	295.6	286.4	295.6	304.6	306.9	272.0	225.5	202.1	168.3
107.5°	336.9	337.4	339.6	341.8	339.6	337.4	336.9	288.1	223.2	190.7	160.8
110°	344.5	346.9	356.4	365.9	356.4	346.9	344.5	290.0	217.4	181.1	154.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	339.6	343.3	357.9	372.5	357.9	343.3	339.6	283.9	209.6	172.4	148.4
115°	323.0	328.1	348.4	368.7	348.4	328.1	323.0	269.4	197.7	162.0	141.8
117.5°	300.1	305.8	328.3	350.8	328.3	305.8	300.1	251.7	187.1	154.8	137.6
120°	284.8	290.2	312.1	333.9	312.1	290.2	284.8	240.5	181.4	151.8	136.2
122.5°	269.3	274.6	296.2	317.8	296.2	274.6	269.3	229.4	176.2	149.6	135.4
125°	248.9	253.9	273.8	293.6	273.8	253.9	248.9	215.0	169.8	147.3	134.8
127.5°	232.5	236.8	253.5	270.2	253.5	236.8	232.5	203.5	164.7	145.2	134.4
130°	222.2	226.0	241.5	257.0	241.5	226.0	222.2	196.3	161.8	144.5	134.7
132.5°	213.4	216.9	230.7	244.6	230.7	216.9	213.4	190.2	159.3	143.8	134.8
135°	200.9	203.9	215.9	227.9	215.9	203.9	200.9	181.5	155.6	142.7	134.7
137.5°	191.7	194.2	204.0	213.8	204.0	194.2	191.7	175.3	153.4	142.5	135.5
140°	184.4	186.6	195.7	204.9	195.7	186.6	184.4	170.2	151.3	141.8	135.7
142.5°	179.2	181.2	189.0	196.9	189.0	181.2	179.2	166.8	150.1	141.8	136.2
145°	171.4	173.0	178.9	184.8	178.9	173.0	171.4	161.2	147.6	140.8	136.2
147.5°	164.9	166.2	171.1	176.0	171.1	166.2	164.9	156.9	146.2	140.8	137.1
150°	161.2	162.2	166.2	170.2	166.2	162.2	161.2	154.4	145.3	140.8	137.6
152.5°	158.2	159.0	162.0	165.0	162.0	159.0	158.2	152.4	144.7	140.8	137.9
155°	154.7	155.2	157.2	159.2	157.2	155.2	154.7	150.1	143.9	140.8	138.6
157.5°	151.6	151.9	153.4	154.8	153.4	151.9	151.6	148.0	143.2	140.8	139.3
160°	150.0	150.2	151.1	151.8	151.1	150.2	150.0	147.0	142.9	140.8	139.6
162.5°	148.6	148.8	149.5	150.3	149.5	148.8	148.6	146.0	142.6	140.8	140.0
165°	146.4	146.6	147.4	148.2	147.4	146.6	146.4	144.6	142.1	140.8	140.5
167.5°	145.4	145.5	145.8	146.2	145.8	145.5	145.4	144.2	142.6	141.8	141.4
170°	145.4	145.4	145.4	145.4	145.4	145.4	145.4	144.2	142.6	141.8	141.8
172.5°	144.7	144.6	144.3	144.0	144.3	144.6	144.7	143.7	142.5	141.8	141.8
175°	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.0	142.2	141.8	142.0
177.5°	143.4	143.3	143.0	142.7	143.0	143.3	143.4	143.0	142.3	142.0	142.2
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	998.4	1003.1	1006.0	1009.8	1019.4
5°	960.1	978.3	984.0	998.4	1015.6
7.5°	876.0	931.4	946.7	981.1	1007.9
10°	794.7	850.2	876.9	958.2	998.4
12.5°	753.6	786.1	804.3	918.0	985.0
15°	727.8	750.7	764.1	864.5	969.7
17.5°	707.7	723.9	733.5	811.9	948.6
20°	695.2	702.9	711.5	773.7	924.7
22.5°	686.6	681.9	688.6	746.9	892.2
25°	680.9	662.7	670.4	725.8	854.0
27.5°	685.7	645.5	648.4	706.7	813.8
30°	686.6	624.5	625.4	686.6	768.9
32.5°	679.9	602.5	603.5	661.8	718.2
35°	663.7	576.7	575.7	633.1	649.4
37.5°	641.7	549.0	549.0	601.5	573.8
40°	614.9	521.2	524.1	560.4	506.9
42.5°	582.4	491.6	495.4	505.9	457.2
45°	547.0	462.9	465.8	427.5	418.9
47.5°	507.8	433.3	434.2	354.8	406.5
50°	461.0	402.7	398.8	304.1	405.5
52.5°	419.9	369.2	357.7	275.4	368.2
55°	379.7	333.7	308.9	253.4	341.5
57.5°	344.3	287.8	263.9	227.6	335.6
60°	311.7	242.9	224.7	199.8	307.9
62.5°	284.9	209.4	205.6	180.7	279.2
65°	256.3	186.5	185.5	164.5	237.1
67.5°	228.5	171.2	170.2	149.2	180.7
70°	198.9	154.9	153.0	132.9	133.9
72.5°	168.3	136.7	134.8	119.5	110.9
75°	137.7	115.7	114.7	104.2	89.9
77.5°	108.0	91.8	93.7	84.1	66.0
80°	77.5	66.9	68.8	60.2	49.7
82.5°	51.6	44.0	45.9	38.2	33.5
85°	28.7	24.9	25.8	20.1	15.3
87.5°	13.4	11.5	11.5	7.6	4.8
90°	4.2	2.7	2.5	1.7	1.0
92.5°	26.0	18.5	16.8	10.3	3.8
95°	64.0	36.0	33.1	21.1	9.2
97.5°	86.2	39.6	36.9	26.4	15.9
100°	94.2	42.6	40.2	30.6	21.0
102.5°	97.9	45.5	43.3	34.3	25.4
105°	100.7	49.9	48.0	40.5	33.0
107.5°	101.2	56.4	54.7	47.6	40.6
110°	100.4	60.0	58.4	52.1	45.8



TEST NUMBER: P933936

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	100.4	64.4	62.9	56.9	50.9
115°	101.4	71.0	69.6	64.1	58.5
117.5°	103.3	77.5	76.2	71.1	66.1
120°	104.7	81.2	80.0	75.3	70.5
122.5°	106.9	85.6	84.3	79.6	74.8
125°	110.0	91.3	90.2	85.8	81.4
127.5°	112.9	96.8	95.6	91.2	86.7
130°	115.1	100.4	99.2	94.4	89.6
132.5°	116.8	103.4	102.2	97.4	92.7
135°	118.8	106.8	105.8	101.4	97.1
137.5°	121.6	111.2	110.2	105.9	101.5
140°	123.3	114.2	113.2	109.2	105.3
142.5°	124.9	116.4	115.4	111.8	108.1
145°	126.8	119.7	119.0	115.7	112.5
147.5°	129.6	123.9	123.2	120.0	116.9
150°	131.0	126.1	125.5	122.6	119.8
152.5°	132.0	127.6	127.0	124.9	122.8
155°	134.1	130.7	130.3	128.7	127.2
157.5°	136.2	133.9	133.5	132.0	130.4
160°	137.1	135.3	135.0	133.8	132.6
162.5°	138.2	136.8	136.6	135.7	134.8
165°	139.6	139.0	138.8	138.0	137.2
167.5°	140.8	140.3	140.2	139.8	139.4
170°	141.7	141.7	141.6	141.2	140.8
172.5°	141.8	141.8	141.8	141.7	141.6
175°	142.4	142.7	142.7	142.7	142.7
177.5°	142.5	142.7	142.7	142.7	142.7
180°	142.7	142.7	142.7	142.7	142.7



TEST NUMBER: P933936  
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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	14.54	15.66	15.26	16.40	17.29	17.33	18.46	18.05	19.20	20.08
	3H	15.03	16.05	15.77	16.80	17.71	18.69	19.70	19.42	20.45	21.37
	4H	15.24	16.19	15.99	16.95	17.88	19.14	20.09	19.89	20.85	21.78
	6H	15.37	16.25	16.14	17.02	17.96	19.43	20.31	20.20	21.08	22.02
	8H	15.38	16.22	16.15	17.01	17.95	19.51	20.35	20.28	21.14	22.08
	12H	15.36	16.16	16.14	16.94	17.91	19.55	20.35	20.33	21.13	22.10
4H	2H	15.59	16.55	16.35	17.31	18.24	17.78	18.73	18.53	19.49	20.42
	3H	16.64	17.44	17.41	18.24	19.18	19.30	20.09	20.07	20.89	21.83
	4H	16.93	17.65	17.72	18.45	19.42	19.83	20.55	20.61	21.35	22.32
	6H	17.07	17.70	17.87	18.52	19.50	20.20	20.83	21.00	21.65	22.63
	8H	17.08	17.67	17.89	18.49	19.48	20.31	20.89	21.12	21.71	22.70
	12H	17.06	17.59	17.89	18.43	19.43	20.37	20.90	21.20	21.74	22.74
8H	4H	17.40	17.99	18.21	18.80	19.79	19.98	20.56	20.78	21.38	22.37
	6H	17.67	18.16	18.51	19.02	20.01	20.41	20.90	21.25	21.76	22.75
	8H	17.72	18.15	18.56	19.00	20.01	20.56	21.00	21.41	21.85	22.86
	12H	17.71	18.09	18.56	18.94	20.01	20.67	21.05	21.52	21.90	22.96
12H	4H	17.42	17.94	18.24	18.78	19.78	19.95	20.48	20.78	21.32	22.31
	6H	17.73	18.17	18.58	19.02	20.03	20.41	20.85	21.26	21.70	22.71
	8H	17.81	18.19	18.66	19.04	20.11	20.58	20.96	21.43	21.81	22.87