

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: P934002

Luminaire Tested: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

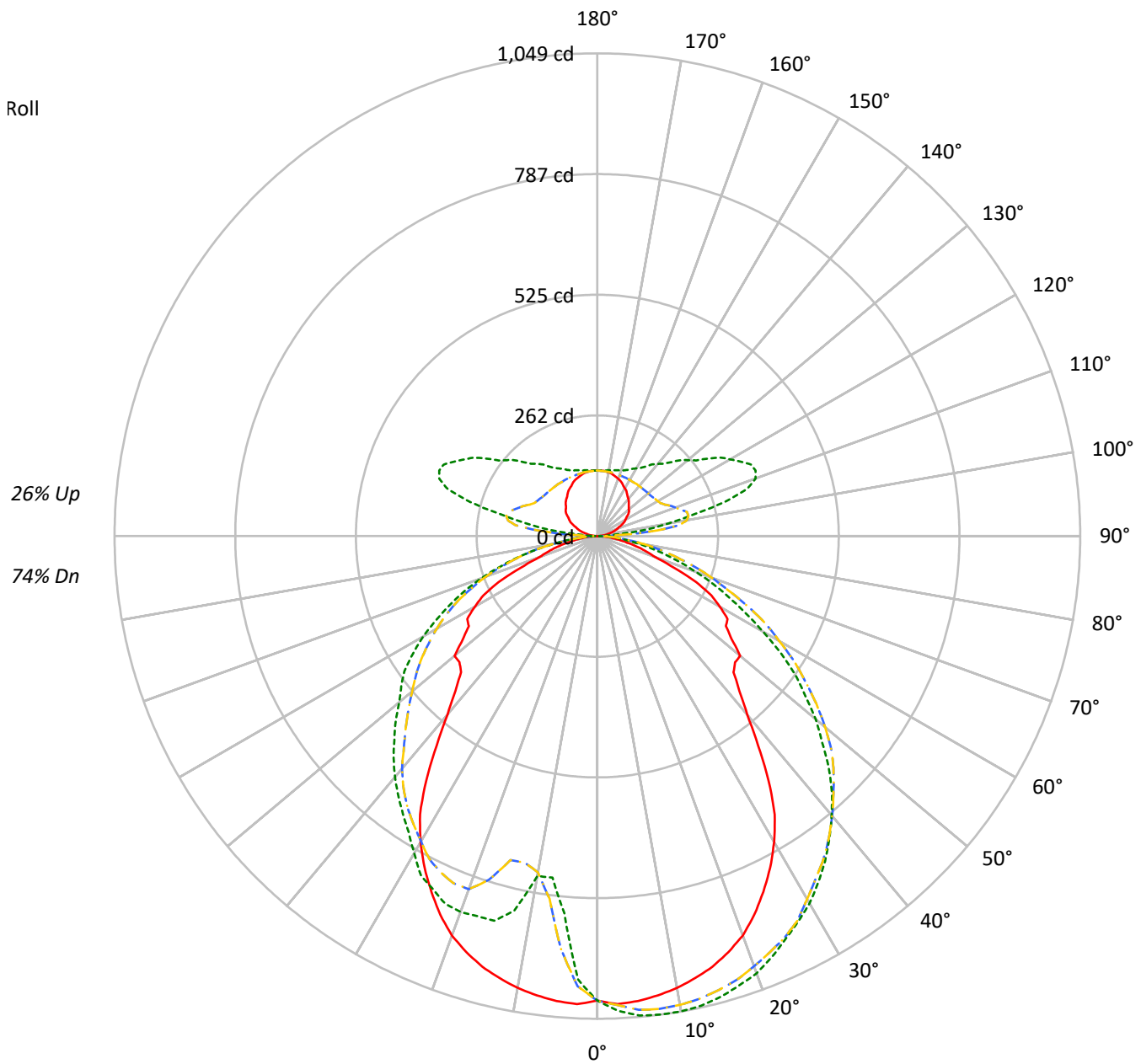
Test Method: LM-79-2019  
Report Number: P934002  
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3542.1 lumens  
Efficiency: N/A  
Efficacy: 118.1 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



— 0°-180°    - - 45°-225°    - - - 90°-270°    - . - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74				74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62				62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52				52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44				44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38				38
5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36	33				33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29				29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26				26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23				23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21				21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19				19

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

	0°	90°	180°	270°
0°	9367	9367	9367	9367
5°	9427	9457	9427	7436
10°	9354	9316	9354	6660
15°	9242	9114	9242	7609
20°	9038	8874	9038	7625
25°	8632	8526	8632	7464
30°	8111	8236	8111	7109
35°	7220	7870	7220	6719
40°	6006	7439	6006	6425
45°	5357	6934	5357	6086
50°	5677	6332	5677	5746
55°	5326	5684	5326	5550
60°	5470	4828	5470	5083
65°	4935	3990	4935	4461
70°	3394	3179	3394	3739
75°	2945	2350	2945	2814
80°	2326	1555	2326	1692
85°	1267	823	1267	700

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8225 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.1	2.6
10°-20°	258.7	7.3
20°-30°	400.0	11.3
30°-40°	477.5	13.5
40°-50°	480.3	13.6
50°-60°	417.9	11.8
60°-70°	296.3	8.4
70°-80°	156.7	4.4
80°-90°	39.6	1.1
90°-100°	69.5	2.0
100°-110°	182.7	5.2
110°-120°	189.4	5.3
120°-130°	151.9	4.3
130°-140°	119.2	3.4
140°-150°	91.5	2.6
150°-160°	65.9	1.9
160°-170°	40.3	1.1
170°-180°	13.6	0.4
0°-30°	749.8	21.2
0°-40°	1227.3	34.7
0°-60°	2125.6	60.0
0°-90°	2618.2	73.9
90°-120°	441.5	12.5
90°-150°	804.1	22.7
90°-180°	924.0	26.1
0°-180°	3542.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1010	1010	1010	1010	1010	
5°	1014	1046	1014	822	1014	96
15°	968	1036	968	865	968	272
25°	853	967	853	846	853	392
35°	648	862	648	736	648	401
45°	418	711	418	624	418	335
55°	341	524	341	512	341	313
65°	237	316	237	353	237	226
75°	90	150	90	180	90	94
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	368	58	368	58	58
125°	81	293	81	293	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°	142	143	142	143	142	14
180°	142	142	142	142	142	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1018.1	1018.1	1024.0	1025.9	1025.9	1023.0	1020.1	1023.0	1031.6	1034.5	1033.5
5°	1014.3	1022.0	1032.5	1034.5	1036.4	1035.4	1033.5	1035.4	1045.0	1046.9	1047.8
7.5°	1006.7	1021.1	1034.5	1037.3	1040.2	1037.3	1036.4	1038.3	1047.8	1049.7	1049.7
10°	997.1	1017.2	1032.5	1034.5	1037.3	1034.5	1034.5	1038.3	1047.8	1049.7	1050.7
12.5°	983.7	1011.4	1025.9	1027.8	1031.6	1030.6	1029.7	1033.5	1043.1	1045.0	1045.0
15°	968.5	1000.9	1014.3	1016.2	1023.0	1021.1	1021.1	1024.9	1035.4	1038.3	1037.3
17.5°	947.5	987.6	1002.8	1005.7	1010.5	1009.5	1010.5	1014.3	1024.0	1025.9	1026.8
20°	923.6	969.4	987.6	990.4	995.2	995.2	995.2	1000.0	1009.5	1013.4	1013.4
22.5°	891.1	950.3	969.4	971.3	977.1	977.1	979.0	985.7	994.3	995.2	995.2
25°	852.9	929.3	945.5	951.3	957.0	959.9	962.7	966.6	969.4	968.5	969.4
27.5°	812.8	902.6	923.6	927.4	935.0	937.9	941.7	942.7	943.6	946.5	944.6
30°	767.9	865.3	896.8	900.7	913.1	915.0	911.2	913.1	917.9	919.8	921.7
32.5°	717.3	809.9	869.1	877.7	889.2	883.5	882.5	885.4	893.0	893.0	894.9
35°	648.5	767.0	843.4	851.0	859.6	852.9	856.7	857.7	862.5	865.3	864.4
37.5°	573.1	729.7	816.6	822.4	829.0	820.4	826.2	829.0	832.9	830.9	830.9
40°	506.2	671.5	785.1	788.9	794.7	788.0	793.7	795.6	797.5	795.6	794.7
42.5°	456.6	607.5	751.7	756.5	752.6	757.4	759.3	763.1	760.3	756.5	756.5
45°	418.4	590.3	715.4	721.1	715.4	723.0	725.9	725.9	717.3	715.4	714.4
47.5°	406.0	555.9	679.1	679.1	676.2	685.8	690.6	683.9	675.3	672.4	672.4
50°	405.0	517.7	629.4	625.6	639.0	650.5	645.7	639.0	632.3	621.8	621.8
52.5°	367.8	470.9	565.5	579.8	600.8	607.5	599.8	593.2	581.7	576.9	573.1
55°	341.0	422.2	507.2	535.9	557.8	566.4	552.1	545.4	528.2	525.3	523.4
57.5°	335.2	351.5	453.7	490.0	516.8	515.8	507.2	494.8	480.5	477.6	476.6
60°	307.5	254.0	396.4	439.4	467.1	464.2	456.6	445.1	431.8	429.8	427.9
62.5°	278.9	184.3	331.4	380.2	419.3	418.4	411.7	394.5	385.0	380.2	376.4
65°	236.8	154.7	235.9	316.1	372.5	374.5	360.1	347.7	337.1	331.4	330.4
67.5°	180.5	126.1	159.5	263.6	327.6	325.7	307.5	301.8	288.4	285.5	279.8
70°	133.7	84.0	110.8	213.9	283.6	278.9	264.5	257.8	245.4	238.8	234.9
72.5°	110.8	67.8	81.2	166.2	238.8	233.0	220.6	213.0	202.5	196.7	192.9
75°	89.8	71.6	62.1	123.2	193.9	190.0	178.6	170.9	162.4	154.7	155.7
77.5°	65.9	66.8	49.7	90.7	153.8	148.0	141.3	131.8	128.0	120.3	120.3
80°	49.7	52.5	37.2	62.1	110.8	110.8	105.0	98.4	91.7	87.9	87.9
82.5°	33.4	33.4	27.7	39.2	75.4	72.6	68.8	66.8	63.0	61.1	61.1
85°	15.3	19.1	17.2	23.9	41.1	43.0	43.0	41.1	40.1	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	18.4	26.0	36.0	41.0	35.9	25.8	18.1	17.4
95°	9.2	21.1	33.0	36.0	63.9	101.0	119.7	106.8	81.0	61.7	59.5
97.5°	15.9	26.4	36.9	39.5	86.0	148.0	179.1	170.9	154.6	142.4	138.2
100°	21.0	30.6	40.1	42.5	94.1	162.9	197.3	197.9	199.1	200.0	195.0
102.5°	25.4	34.3	43.3	45.5	97.8	167.6	202.5	212.9	233.6	249.2	244.9
105°	32.9	40.5	47.9	49.9	100.6	168.1	201.9	225.2	271.7	306.6	304.3
107.5°	40.6	47.6	54.6	56.3	101.0	160.6	190.4	222.9	287.7	336.4	337.0
110°	45.7	52.0	58.4	60.0	100.3	154.0	180.9	217.2	289.7	344.1	346.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	50.8	56.8	62.8	64.4	100.3	148.2	172.2	209.3	283.5	339.2	342.8
115°	58.4	64.0	69.5	71.0	101.2	141.6	161.8	197.5	269.0	322.6	327.7
117.5°	66.0	71.1	76.1	77.4	103.1	137.4	154.6	186.9	251.4	299.8	305.4
120°	70.4	75.2	79.9	81.1	104.6	136.0	151.7	181.2	240.2	284.4	289.8
122.5°	74.7	79.5	84.2	85.5	106.8	135.2	149.5	176.0	229.1	268.9	274.3
125°	81.3	85.7	90.1	91.2	109.8	134.7	147.1	169.6	214.8	248.6	253.6
127.5°	86.6	91.1	95.5	96.6	112.8	134.3	145.1	164.5	203.2	232.3	236.5
130°	89.5	94.3	99.0	100.3	115.0	134.6	144.3	161.6	196.1	221.9	225.8
132.5°	92.5	97.3	102.1	103.2	116.7	134.7	143.6	159.1	189.9	213.2	216.6
135°	96.9	101.2	105.6	106.7	118.6	134.6	142.5	155.4	181.3	200.6	203.6
137.5°	101.4	105.7	110.0	111.1	121.5	135.3	142.3	153.2	175.1	191.5	194.0
140°	105.1	109.1	113.1	114.0	123.2	135.5	141.6	151.1	170.0	184.1	186.4
142.5°	108.0	111.6	115.3	116.2	124.7	136.0	141.6	149.9	166.6	179.0	181.0
145°	112.4	115.6	118.8	119.6	126.6	136.0	140.7	147.5	161.0	171.2	172.8
147.5°	116.8	119.9	123.0	123.8	129.4	136.9	140.7	146.0	156.7	164.7	166.0
150°	119.7	122.4	125.3	126.0	130.8	137.4	140.7	145.2	154.2	161.0	162.0
152.5°	122.6	124.7	126.8	127.4	131.8	137.7	140.7	144.5	152.2	158.1	158.8
155°	127.0	128.5	130.2	130.5	133.9	138.4	140.7	143.7	149.9	154.5	155.0
157.5°	130.3	131.8	133.3	133.7	136.0	139.1	140.7	143.1	147.8	151.4	151.7
160°	132.5	133.6	134.8	135.1	136.9	139.4	140.7	142.7	146.8	149.8	150.0
162.5°	134.7	135.5	136.5	136.7	138.0	139.8	140.7	142.4	145.8	148.4	148.6
165°	137.0	137.8	138.7	138.9	139.4	140.3	140.7	141.9	144.4	146.2	146.4
167.5°	139.2	139.6	140.0	140.1	140.6	141.2	141.6	142.4	144.0	145.3	145.4
170°	140.7	141.1	141.4	141.5	141.5	141.6	141.6	142.4	144.0	145.3	145.3
172.5°	141.4	141.5	141.6	141.6	141.6	141.6	141.6	142.3	143.5	144.5	144.4
175°	142.5	142.5	142.5	142.5	142.2	141.8	141.6	142.0	142.9	143.4	143.4
177.5°	142.5	142.5	142.5	142.5	142.3	142.0	141.8	142.1	142.8	143.2	143.2
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1035.4	1032.5	1035.4	1033.5	1034.5	1031.6	1023.0	1020.1	1023.0	1025.9	1025.9
5°	1047.8	1045.9	1047.8	1047.8	1046.9	1045.0	1035.4	1033.5	1035.4	1036.4	1034.5
7.5°	1051.6	1048.8	1051.6	1049.7	1049.7	1047.8	1038.3	1036.4	1037.3	1040.2	1037.3
10°	1051.6	1048.8	1051.6	1050.7	1049.7	1047.8	1038.3	1034.5	1034.5	1037.3	1034.5
12.5°	1046.9	1045.0	1046.9	1045.0	1045.0	1043.1	1033.5	1029.7	1030.6	1031.6	1027.8
15°	1039.2	1036.4	1039.2	1037.3	1038.3	1035.4	1024.9	1021.1	1021.1	1023.0	1016.2
17.5°	1027.8	1024.0	1027.8	1026.8	1025.9	1024.0	1014.3	1010.5	1009.5	1010.5	1005.7
20°	1014.3	1011.4	1014.3	1013.4	1013.4	1009.5	1000.0	995.2	995.2	995.2	990.4
22.5°	993.3	990.4	993.3	995.2	995.2	994.3	985.7	979.0	977.1	977.1	971.3
25°	969.4	966.6	969.4	969.4	968.5	969.4	966.6	962.7	959.9	957.0	951.3
27.5°	946.5	944.6	946.5	944.6	946.5	943.6	942.7	941.7	937.9	935.0	927.4
30°	923.6	921.7	923.6	921.7	919.8	917.9	913.1	911.2	915.0	913.1	900.7
32.5°	894.9	893.0	894.9	894.9	893.0	893.0	885.4	882.5	883.5	889.2	877.7
35°	865.3	862.5	865.3	864.4	865.3	862.5	857.7	856.7	852.9	859.6	851.0
37.5°	830.9	828.1	830.9	830.9	830.9	832.9	829.0	826.2	820.4	829.0	822.4
40°	795.6	791.8	795.6	794.7	795.6	797.5	795.6	793.7	788.0	794.7	788.9
42.5°	755.5	754.5	755.5	756.5	756.5	760.3	763.1	759.3	757.4	752.6	756.5
45°	712.5	710.6	712.5	714.4	715.4	717.3	725.9	725.9	723.0	715.4	721.1
47.5°	666.7	661.9	666.7	672.4	672.4	675.3	683.9	690.6	685.8	676.2	679.1
50°	618.0	618.9	618.0	621.8	621.8	632.3	639.0	645.7	650.5	639.0	625.6
52.5°	570.2	569.3	570.2	573.1	576.9	581.7	593.2	599.8	607.5	600.8	579.8
55°	522.5	524.4	522.5	523.4	525.3	528.2	545.4	552.1	566.4	557.8	535.9
57.5°	474.7	471.9	474.7	476.6	477.6	480.5	494.8	507.2	515.8	516.8	490.0
60°	419.3	415.5	419.3	427.9	429.8	431.8	445.1	456.6	464.2	467.1	439.4
62.5°	370.6	364.0	370.6	376.4	380.2	385.0	394.5	411.7	418.4	419.3	380.2
65°	319.0	316.1	319.0	330.4	331.4	337.1	347.7	360.1	374.5	372.5	316.1
67.5°	272.2	272.2	272.2	279.8	285.5	288.4	301.8	307.5	325.7	327.6	263.6
70°	229.2	228.2	229.2	234.9	238.8	245.4	257.8	264.5	278.9	283.6	213.9
72.5°	188.1	187.2	188.1	192.9	196.7	202.5	213.0	220.6	233.0	238.8	166.2
75°	151.8	149.9	151.8	155.7	154.7	162.4	170.9	178.6	190.0	193.9	123.2
77.5°	116.5	116.5	116.5	120.3	120.3	128.0	131.8	141.3	148.0	153.8	90.7
80°	86.9	86.0	86.9	87.9	87.9	91.7	98.4	105.0	110.8	110.8	62.1
82.5°	61.1	59.2	61.1	61.1	61.1	63.0	66.8	68.8	72.6	75.4	39.2
85°	38.2	38.2	38.2	39.2	38.2	40.1	41.1	43.0	43.0	41.1	23.9
87.5°	24.8	23.9	24.8	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	18.1	25.8	35.9	41.0	36.0	26.0	18.4
95°	50.8	42.0	50.8	59.5	61.7	81.0	106.8	119.7	101.0	63.9	36.0
97.5°	121.6	105.0	121.6	138.2	142.4	154.6	170.9	179.1	148.0	86.0	39.5
100°	175.2	155.4	175.2	195.0	200.0	199.1	197.9	197.3	162.9	94.1	42.5
102.5°	227.9	210.9	227.9	244.9	249.2	233.6	212.9	202.5	167.6	97.8	45.5
105°	295.2	286.0	295.2	304.3	306.6	271.7	225.2	201.9	168.1	100.6	49.9
107.5°	339.2	341.4	339.2	337.0	336.4	287.7	222.9	190.4	160.6	101.0	56.3
110°	355.9	365.5	355.9	346.5	344.1	289.7	217.2	180.9	154.0	100.3	60.0





TEST NUMBER: P934002

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	357.5	372.1	357.5	342.8	339.2	283.5	209.3	172.2	148.2	100.3	64.4
115°	348.0	368.2	348.0	327.7	322.6	269.0	197.5	161.8	141.6	101.2	71.0
117.5°	327.9	350.4	327.9	305.4	299.8	251.4	186.9	154.6	137.4	103.1	77.4
120°	311.7	333.5	311.7	289.8	284.4	240.2	181.2	151.7	136.0	104.6	81.1
122.5°	295.9	317.4	295.9	274.3	268.9	229.1	176.0	149.5	135.2	106.8	85.5
125°	273.4	293.3	273.4	253.6	248.6	214.8	169.6	147.1	134.7	109.8	91.2
127.5°	253.2	269.9	253.2	236.5	232.3	203.2	164.5	145.1	134.3	112.8	96.6
130°	241.2	256.7	241.2	225.8	221.9	196.1	161.6	144.3	134.6	115.0	100.3
132.5°	230.4	244.3	230.4	216.6	213.2	189.9	159.1	143.6	134.7	116.7	103.2
135°	215.6	227.6	215.6	203.6	200.6	181.3	155.4	142.5	134.6	118.6	106.7
137.5°	203.7	213.5	203.7	194.0	191.5	175.1	153.2	142.3	135.3	121.5	111.1
140°	195.5	204.7	195.5	186.4	184.1	170.0	151.1	141.6	135.5	123.2	114.0
142.5°	188.8	196.6	188.8	181.0	179.0	166.6	149.9	141.6	136.0	124.7	116.2
145°	178.7	184.6	178.7	172.8	171.2	161.0	147.5	140.7	136.0	126.6	119.6
147.5°	170.8	175.8	170.8	166.0	164.7	156.7	146.0	140.7	136.9	129.4	123.8
150°	166.0	170.0	166.0	162.0	161.0	154.2	145.2	140.7	137.4	130.8	126.0
152.5°	161.8	164.8	161.8	158.8	158.1	152.2	144.5	140.7	137.7	131.8	127.4
155°	157.0	159.0	157.0	155.0	154.5	149.9	143.7	140.7	138.4	133.9	130.5
157.5°	153.2	154.6	153.2	151.7	151.4	147.8	143.1	140.7	139.1	136.0	133.7
160°	150.9	151.7	150.9	150.0	149.8	146.8	142.7	140.7	139.4	136.9	135.1
162.5°	149.4	150.1	149.4	148.6	148.4	145.8	142.4	140.7	139.8	138.0	136.7
165°	147.3	148.0	147.3	146.4	146.2	144.4	141.9	140.7	140.3	139.4	138.9
167.5°	145.6	146.0	145.6	145.4	145.3	144.0	142.4	141.6	141.2	140.6	140.1
170°	145.3	145.3	145.3	145.3	145.3	144.0	142.4	141.6	141.6	141.5	141.5
172.5°	144.1	143.8	144.1	144.4	144.5	143.5	142.3	141.6	141.6	141.6	141.6
175°	143.4	143.4	143.4	143.4	143.4	142.9	142.0	141.6	141.8	142.2	142.5
177.5°	142.9	142.5	142.9	143.2	143.2	142.8	142.1	141.8	142.0	142.3	142.5
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P934002

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1024.0	1018.1	1018.1	1008.6	1004.8	1001.9	997.1	982.8	979.0	975.2	980.9
5°	1032.5	1022.0	1014.3	997.1	982.8	977.1	958.9	924.5	901.6	884.4	874.9
7.5°	1034.5	1021.1	1006.7	979.9	945.5	930.3	874.9	811.8	794.7	779.4	769.8
10°	1032.5	1017.2	997.1	957.0	875.8	849.1	793.7	752.6	742.1	739.3	742.1
12.5°	1025.9	1011.4	983.7	916.9	803.3	785.1	752.6	728.8	726.9	731.6	757.4
15°	1014.3	1000.9	968.5	863.4	763.1	749.8	726.9	718.3	728.8	762.2	839.5
17.5°	1002.8	987.6	947.5	810.9	732.6	723.0	706.8	724.0	783.2	828.1	853.9
20°	987.6	969.4	923.6	772.7	710.6	702.0	694.4	771.7	816.6	832.9	847.2
22.5°	969.4	950.3	891.1	746.0	687.7	681.0	685.8	798.5	816.6	828.1	840.5
25°	945.5	929.3	852.9	724.9	669.6	661.9	680.1	795.6	806.1	809.0	833.8
27.5°	923.6	902.6	812.8	705.8	647.6	644.7	684.8	783.2	790.8	793.7	820.4
30°	896.8	865.3	767.9	685.8	624.7	623.7	685.8	767.9	766.0	773.6	800.4
32.5°	869.1	809.9	717.3	661.0	602.7	601.7	679.1	745.0	743.1	753.6	773.6
35°	843.4	767.0	648.5	632.3	575.0	576.0	662.9	718.3	719.2	728.8	741.2
37.5°	816.6	729.7	573.1	600.8	548.3	548.3	640.9	693.4	691.5	694.4	711.6
40°	785.1	671.5	506.2	559.7	523.4	520.6	614.2	666.7	660.0	659.0	682.9
42.5°	751.7	607.5	456.6	505.3	494.8	491.0	581.7	634.2	621.8	624.7	655.2
45°	715.4	590.3	418.4	427.0	465.2	462.3	546.4	597.0	588.4	596.0	627.5
47.5°	679.1	555.9	406.0	354.4	433.7	432.7	507.2	560.7	555.9	563.5	597.0
50°	629.4	517.7	405.0	303.7	398.3	402.2	460.4	525.3	525.3	532.0	567.4
52.5°	565.5	470.9	367.8	275.0	357.3	368.7	419.3	494.8	496.7	503.4	534.9
55°	507.2	422.2	341.0	253.1	308.5	333.3	379.2	463.3	467.1	473.8	502.4
57.5°	453.7	351.5	335.2	227.3	263.6	287.5	343.9	432.7	434.6	440.4	468.0
60°	396.4	254.0	307.5	199.6	224.4	242.6	311.3	396.4	403.1	406.9	430.8
62.5°	331.4	184.3	278.9	180.5	205.3	209.1	284.6	362.0	370.6	373.5	387.8
65°	235.9	154.7	236.8	164.3	185.3	186.2	255.9	326.6	334.2	339.0	349.6
67.5°	159.5	126.1	180.5	149.0	170.0	170.9	228.2	285.5	296.0	299.9	306.6
70°	110.8	84.0	133.7	132.7	152.8	154.7	198.6	248.3	257.8	260.7	264.5
72.5°	81.2	67.8	110.8	119.4	134.7	136.6	168.1	206.3	215.8	218.7	220.6
75°	62.1	71.6	89.8	104.1	114.6	115.6	137.5	168.1	174.8	176.7	177.6
77.5°	49.7	66.8	65.9	84.0	93.6	91.7	107.9	129.9	135.6	135.6	135.6
80°	37.2	52.5	49.7	60.2	68.8	66.8	77.4	92.6	94.5	96.5	95.5
82.5°	27.7	33.4	33.4	38.2	45.8	43.9	51.6	60.2	60.2	60.2	62.1
85°	17.2	19.1	15.3	20.1	25.8	24.8	28.6	32.5	33.4	33.4	31.5
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	18.4	26.0	36.0	41.0	35.9	25.8
95°	33.0	21.1	9.2	21.1	33.0	36.0	63.9	101.0	119.7	106.8	81.0
97.5°	36.9	26.4	15.9	26.4	36.9	39.5	86.0	148.0	179.1	170.9	154.6
100°	40.1	30.6	21.0	30.6	40.1	42.5	94.1	162.9	197.3	197.9	199.1
102.5°	43.3	34.3	25.4	34.3	43.3	45.5	97.8	167.6	202.5	212.9	233.6
105°	47.9	40.5	32.9	40.5	47.9	49.9	100.6	168.1	201.9	225.2	271.7
107.5°	54.6	47.6	40.6	47.6	54.6	56.3	101.0	160.6	190.4	222.9	287.7
110°	58.4	52.0	45.7	52.0	58.4	60.0	100.3	154.0	180.9	217.2	289.7



TEST NUMBER: P934002

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	62.8	56.8	50.8	56.8	62.8	64.4	100.3	148.2	172.2	209.3	283.5
115°	69.5	64.0	58.4	64.0	69.5	71.0	101.2	141.6	161.8	197.5	269.0
117.5°	76.1	71.1	66.0	71.1	76.1	77.4	103.1	137.4	154.6	186.9	251.4
120°	79.9	75.2	70.4	75.2	79.9	81.1	104.6	136.0	151.7	181.2	240.2
122.5°	84.2	79.5	74.7	79.5	84.2	85.5	106.8	135.2	149.5	176.0	229.1
125°	90.1	85.7	81.3	85.7	90.1	91.2	109.8	134.7	147.1	169.6	214.8
127.5°	95.5	91.1	86.6	91.1	95.5	96.6	112.8	134.3	145.1	164.5	203.2
130°	99.0	94.3	89.5	94.3	99.0	100.3	115.0	134.6	144.3	161.6	196.1
132.5°	102.1	97.3	92.5	97.3	102.1	103.2	116.7	134.7	143.6	159.1	189.9
135°	105.6	101.2	96.9	101.2	105.6	106.7	118.6	134.6	142.5	155.4	181.3
137.5°	110.0	105.7	101.4	105.7	110.0	111.1	121.5	135.3	142.3	153.2	175.1
140°	113.1	109.1	105.1	109.1	113.1	114.0	123.2	135.5	141.6	151.1	170.0
142.5°	115.3	111.6	108.0	111.6	115.3	116.2	124.7	136.0	141.6	149.9	166.6
145°	118.8	115.6	112.4	115.6	118.8	119.6	126.6	136.0	140.7	147.5	161.0
147.5°	123.0	119.9	116.8	119.9	123.0	123.8	129.4	136.9	140.7	146.0	156.7
150°	125.3	122.4	119.7	122.4	125.3	126.0	130.8	137.4	140.7	145.2	154.2
152.5°	126.8	124.7	122.6	124.7	126.8	127.4	131.8	137.7	140.7	144.5	152.2
155°	130.2	128.5	127.0	128.5	130.2	130.5	133.9	138.4	140.7	143.7	149.9
157.5°	133.3	131.8	130.3	131.8	133.3	133.7	136.0	139.1	140.7	143.1	147.8
160°	134.8	133.6	132.5	133.6	134.8	135.1	136.9	139.4	140.7	142.7	146.8
162.5°	136.5	135.5	134.7	135.5	136.5	136.7	138.0	139.8	140.7	142.4	145.8
165°	138.7	137.8	137.0	137.8	138.7	138.9	139.4	140.3	140.7	141.9	144.4
167.5°	140.0	139.6	139.2	139.6	140.0	140.1	140.6	141.2	141.6	142.4	144.0
170°	141.4	141.1	140.7	141.1	141.4	141.5	141.5	141.6	141.6	142.4	144.0
172.5°	141.6	141.5	141.4	141.5	141.6	141.6	141.6	141.6	141.6	142.3	143.5
175°	142.5	142.5	142.5	142.5	142.5	142.5	142.2	141.8	141.6	142.0	142.9
177.5°	142.5	142.5	142.5	142.5	142.5	142.5	142.3	142.0	141.8	142.1	142.8
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P934002

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	974.2	971.3	975.2	964.6	975.2	971.3	974.2	980.9	975.2	979.0	982.8
5°	854.8	850.0	834.8	822.4	834.8	850.0	854.8	874.9	884.4	901.6	924.5
7.5°	764.1	760.3	756.5	748.8	756.5	760.3	764.1	769.8	779.4	794.7	811.8
10°	744.0	745.0	750.7	749.8	750.7	745.0	744.0	742.1	739.3	742.1	752.6
12.5°	795.6	804.2	835.7	833.8	835.7	804.2	795.6	757.4	731.6	726.9	728.8
15°	854.8	857.7	864.4	865.3	864.4	857.7	854.8	839.5	762.2	728.8	718.3
17.5°	860.6	861.5	866.3	866.3	866.3	861.5	860.6	853.9	828.1	783.2	724.0
20°	855.8	857.7	867.2	869.1	867.2	857.7	855.8	847.2	832.9	816.6	771.7
22.5°	853.9	857.7	865.3	864.4	865.3	857.7	853.9	840.5	828.1	816.6	798.5
25°	844.3	844.3	845.3	846.2	845.3	844.3	844.3	833.8	809.0	806.1	795.6
27.5°	824.3	826.2	831.9	830.9	831.9	826.2	824.3	820.4	793.7	790.8	783.2
30°	806.1	804.2	799.4	795.6	799.4	804.2	806.1	800.4	773.6	766.0	767.9
32.5°	775.6	770.8	766.0	763.1	766.0	770.8	775.6	773.6	753.6	743.1	745.0
35°	739.3	740.2	739.3	736.4	739.3	740.2	739.3	741.2	728.8	719.2	718.3
37.5°	713.5	715.4	714.4	710.6	714.4	715.4	713.5	711.6	694.4	691.5	693.4
40°	686.7	687.7	686.7	683.9	686.7	687.7	686.7	682.9	659.0	660.0	666.7
42.5°	661.0	660.0	657.1	655.2	657.1	660.0	661.0	655.2	624.7	621.8	634.2
45°	631.4	632.3	626.6	623.7	626.6	632.3	631.4	627.5	596.0	588.4	597.0
47.5°	601.7	601.7	597.0	594.1	597.0	601.7	601.7	597.0	563.5	555.9	560.7
50°	570.2	569.3	562.6	561.6	562.6	569.3	570.2	567.4	532.0	525.3	525.3
52.5°	533.9	533.9	534.9	536.8	534.9	533.9	533.9	534.9	503.4	496.7	494.8
55°	502.4	503.4	510.1	512.0	510.1	503.4	502.4	502.4	473.8	467.1	463.3
57.5°	470.0	470.0	474.7	474.7	474.7	470.0	470.0	468.0	440.4	434.6	432.7
60°	432.7	434.6	438.4	437.5	438.4	434.6	432.7	430.8	406.9	403.1	396.4
62.5°	393.6	395.5	396.4	394.5	396.4	395.5	393.6	387.8	373.5	370.6	362.0
65°	352.5	354.4	355.4	353.4	355.4	354.4	352.5	349.6	339.0	334.2	326.6
67.5°	310.4	309.4	308.5	312.3	308.5	309.4	310.4	306.6	299.9	296.0	285.5
70°	267.4	267.4	266.4	268.4	266.4	267.4	267.4	264.5	260.7	257.8	248.3
72.5°	221.6	220.6	224.4	221.6	224.4	220.6	221.6	220.6	218.7	215.8	206.3
75°	176.7	178.6	176.7	179.5	176.7	178.6	176.7	177.6	176.7	174.8	168.1
77.5°	134.7	136.6	134.7	134.7	134.7	136.6	134.7	135.6	135.6	135.6	129.9
80°	95.5	94.5	94.5	93.6	94.5	94.5	95.5	95.5	96.5	94.5	92.6
82.5°	61.1	60.2	60.2	62.1	60.2	60.2	61.1	62.1	60.2	60.2	60.2
85°	33.4	34.4	32.5	32.5	32.5	34.4	33.4	31.5	33.4	33.4	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°	18.1	17.4	14.5	11.7	14.5	17.4	18.1	25.8	35.9	41.0	36.0
95°	61.7	59.5	50.8	42.0	50.8	59.5	61.7	81.0	106.8	119.7	101.0
97.5°	142.4	138.2	121.6	105.0	121.6	138.2	142.4	154.6	170.9	179.1	148.0
100°	200.0	195.0	175.2	155.4	175.2	195.0	200.0	199.1	197.9	197.3	162.9
102.5°	249.2	244.9	227.9	210.9	227.9	244.9	249.2	233.6	212.9	202.5	167.6
105°	306.6	304.3	295.2	286.0	295.2	304.3	306.6	271.7	225.2	201.9	168.1
107.5°	336.4	337.0	339.2	341.4	339.2	337.0	336.4	287.7	222.9	190.4	160.6
110°	344.1	346.5	355.9	365.5	355.9	346.5	344.1	289.7	217.2	180.9	154.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	339.2	342.8	357.5	372.1	357.5	342.8	339.2	283.5	209.3	172.2	148.2
115°	322.6	327.7	348.0	368.2	348.0	327.7	322.6	269.0	197.5	161.8	141.6
117.5°	299.8	305.4	327.9	350.4	327.9	305.4	299.8	251.4	186.9	154.6	137.4
120°	284.4	289.8	311.7	333.5	311.7	289.8	284.4	240.2	181.2	151.7	136.0
122.5°	268.9	274.3	295.9	317.4	295.9	274.3	268.9	229.1	176.0	149.5	135.2
125°	248.6	253.6	273.4	293.3	273.4	253.6	248.6	214.8	169.6	147.1	134.7
127.5°	232.3	236.5	253.2	269.9	253.2	236.5	232.3	203.2	164.5	145.1	134.3
130°	221.9	225.8	241.2	256.7	241.2	225.8	221.9	196.1	161.6	144.3	134.6
132.5°	213.2	216.6	230.4	244.3	230.4	216.6	213.2	189.9	159.1	143.6	134.7
135°	200.6	203.6	215.6	227.6	215.6	203.6	200.6	181.3	155.4	142.5	134.6
137.5°	191.5	194.0	203.7	213.5	203.7	194.0	191.5	175.1	153.2	142.3	135.3
140°	184.1	186.4	195.5	204.7	195.5	186.4	184.1	170.0	151.1	141.6	135.5
142.5°	179.0	181.0	188.8	196.6	188.8	181.0	179.0	166.6	149.9	141.6	136.0
145°	171.2	172.8	178.7	184.6	178.7	172.8	171.2	161.0	147.5	140.7	136.0
147.5°	164.7	166.0	170.8	175.8	170.8	166.0	164.7	156.7	146.0	140.7	136.9
150°	161.0	162.0	166.0	170.0	166.0	162.0	161.0	154.2	145.2	140.7	137.4
152.5°	158.1	158.8	161.8	164.8	161.8	158.8	158.1	152.2	144.5	140.7	137.7
155°	154.5	155.0	157.0	159.0	157.0	155.0	154.5	149.9	143.7	140.7	138.4
157.5°	151.4	151.7	153.2	154.6	153.2	151.7	151.4	147.8	143.1	140.7	139.1
160°	149.8	150.0	150.9	151.7	150.9	150.0	149.8	146.8	142.7	140.7	139.4
162.5°	148.4	148.6	149.4	150.1	149.4	148.6	148.4	145.8	142.4	140.7	139.8
165°	146.2	146.4	147.3	148.0	147.3	146.4	146.2	144.4	141.9	140.7	140.3
167.5°	145.3	145.4	145.6	146.0	145.6	145.4	145.3	144.0	142.4	141.6	141.2
170°	145.3	145.3	145.3	145.3	145.3	145.3	145.3	144.0	142.4	141.6	141.6
172.5°	144.5	144.4	144.1	143.8	144.1	144.4	144.5	143.5	142.3	141.6	141.6
175°	143.4	143.4	143.4	143.4	143.4	143.4	143.4	142.9	142.0	141.6	141.8
177.5°	143.2	143.2	142.9	142.5	142.9	143.2	143.2	142.8	142.1	141.8	142.0
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	997.1	1001.9	1004.8	1008.6	1018.1
5°	958.9	977.1	982.8	997.1	1014.3
7.5°	874.9	930.3	945.5	979.9	1006.7
10°	793.7	849.1	875.8	957.0	997.1
12.5°	752.6	785.1	803.3	916.9	983.7
15°	726.9	749.8	763.1	863.4	968.5
17.5°	706.8	723.0	732.6	810.9	947.5
20°	694.4	702.0	710.6	772.7	923.6
22.5°	685.8	681.0	687.7	746.0	891.1
25°	680.1	661.9	669.6	724.9	852.9
27.5°	684.8	644.7	647.6	705.8	812.8
30°	685.8	623.7	624.7	685.8	767.9
32.5°	679.1	601.7	602.7	661.0	717.3
35°	662.9	576.0	575.0	632.3	648.5
37.5°	640.9	548.3	548.3	600.8	573.1
40°	614.2	520.6	523.4	559.7	506.2
42.5°	581.7	491.0	494.8	505.3	456.6
45°	546.4	462.3	465.2	427.0	418.4
47.5°	507.2	432.7	433.7	354.4	406.0
50°	460.4	402.2	398.3	303.7	405.0
52.5°	419.3	368.7	357.3	275.0	367.8
55°	379.2	333.3	308.5	253.1	341.0
57.5°	343.9	287.5	263.6	227.3	335.2
60°	311.3	242.6	224.4	199.6	307.5
62.5°	284.6	209.1	205.3	180.5	278.9
65°	255.9	186.2	185.3	164.3	236.8
67.5°	228.2	170.9	170.0	149.0	180.5
70°	198.6	154.7	152.8	132.7	133.7
72.5°	168.1	136.6	134.7	119.4	110.8
75°	137.5	115.6	114.6	104.1	89.8
77.5°	107.9	91.7	93.6	84.0	65.9
80°	77.4	66.8	68.8	60.2	49.7
82.5°	51.6	43.9	45.8	38.2	33.4
85°	28.6	24.8	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	18.4	16.8	10.3	3.8
95°	63.9	36.0	33.0	21.1	9.2
97.5°	86.0	39.5	36.9	26.4	15.9
100°	94.1	42.5	40.1	30.6	21.0
102.5°	97.8	45.5	43.3	34.3	25.4
105°	100.6	49.9	47.9	40.5	32.9
107.5°	101.0	56.3	54.6	47.6	40.6
110°	100.3	60.0	58.4	52.0	45.7



TEST NUMBER: P934002

CATALOG NUMBER: SQ4-FA-025U-075D-B40-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	100.3	64.4	62.8	56.8	50.8
115°	101.2	71.0	69.5	64.0	58.4
117.5°	103.1	77.4	76.1	71.1	66.0
120°	104.6	81.1	79.9	75.2	70.4
122.5°	106.8	85.5	84.2	79.5	74.7
125°	109.8	91.2	90.1	85.7	81.3
127.5°	112.8	96.6	95.5	91.1	86.6
130°	115.0	100.3	99.0	94.3	89.5
132.5°	116.7	103.2	102.1	97.3	92.5
135°	118.6	106.7	105.6	101.2	96.9
137.5°	121.5	111.1	110.0	105.7	101.4
140°	123.2	114.0	113.1	109.1	105.1
142.5°	124.7	116.2	115.3	111.6	108.0
145°	126.6	119.6	118.8	115.6	112.4
147.5°	129.4	123.8	123.0	119.9	116.8
150°	130.8	126.0	125.3	122.4	119.7
152.5°	131.8	127.4	126.8	124.7	122.6
155°	133.9	130.5	130.2	128.5	127.0
157.5°	136.0	133.7	133.3	131.8	130.3
160°	136.9	135.1	134.8	133.6	132.5
162.5°	138.0	136.7	136.5	135.5	134.7
165°	139.4	138.9	138.7	137.8	137.0
167.5°	140.6	140.1	140.0	139.6	139.2
170°	141.5	141.5	141.4	141.1	140.7
172.5°	141.6	141.6	141.6	141.5	141.4
175°	142.2	142.5	142.5	142.5	142.5
177.5°	142.3	142.5	142.5	142.5	142.5
180°	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P934002  
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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	14.53	15.66	15.25	16.40	17.28	17.33	18.46	18.05	19.20	20.08
	3H	15.03	16.04	15.76	16.79	17.71	18.68	19.70	19.42	20.45	21.36
	4H	15.23	16.19	15.99	16.95	17.87	19.13	20.09	19.89	20.85	21.78
	6H	15.37	16.25	16.13	17.02	17.96	19.42	20.31	20.19	21.08	22.02
	8H	15.37	16.21	16.15	17.00	17.95	19.50	20.34	20.28	21.13	22.07
	12H	15.35	16.15	16.14	16.94	17.91	19.55	20.35	20.33	21.13	22.10
4H	2H	15.59	16.54	16.35	17.30	18.23	17.77	18.73	18.53	19.49	20.41
	3H	16.64	17.43	17.41	18.23	19.18	19.29	20.09	20.06	20.88	21.83
	4H	16.93	17.65	17.71	18.45	19.42	19.82	20.55	20.61	21.34	22.32
	6H	17.07	17.69	17.87	18.51	19.49	20.20	20.82	21.00	21.64	22.62
	8H	17.08	17.66	17.88	18.48	19.47	20.30	20.89	21.11	21.71	22.70
	12H	17.06	17.59	17.89	18.42	19.42	20.37	20.90	21.20	21.73	22.73
8H	4H	17.40	17.98	18.20	18.80	19.79	19.97	20.56	20.78	21.37	22.36
	6H	17.67	18.15	18.50	19.01	20.01	20.41	20.89	21.25	21.75	22.75
	8H	17.71	18.14	18.56	19.00	20.01	20.56	20.99	21.41	21.85	22.86
	12H	17.71	18.09	18.56	18.94	20.00	20.66	21.04	21.51	21.89	22.96
12H	4H	17.41	17.94	18.24	18.78	19.78	19.95	20.47	20.77	21.31	22.31
	6H	17.73	18.16	18.58	19.02	20.03	20.41	20.84	21.26	21.70	22.71
	8H	17.81	18.19	18.66	19.04	20.10	20.58	20.96	21.43	21.80	22.87