

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: P933932

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

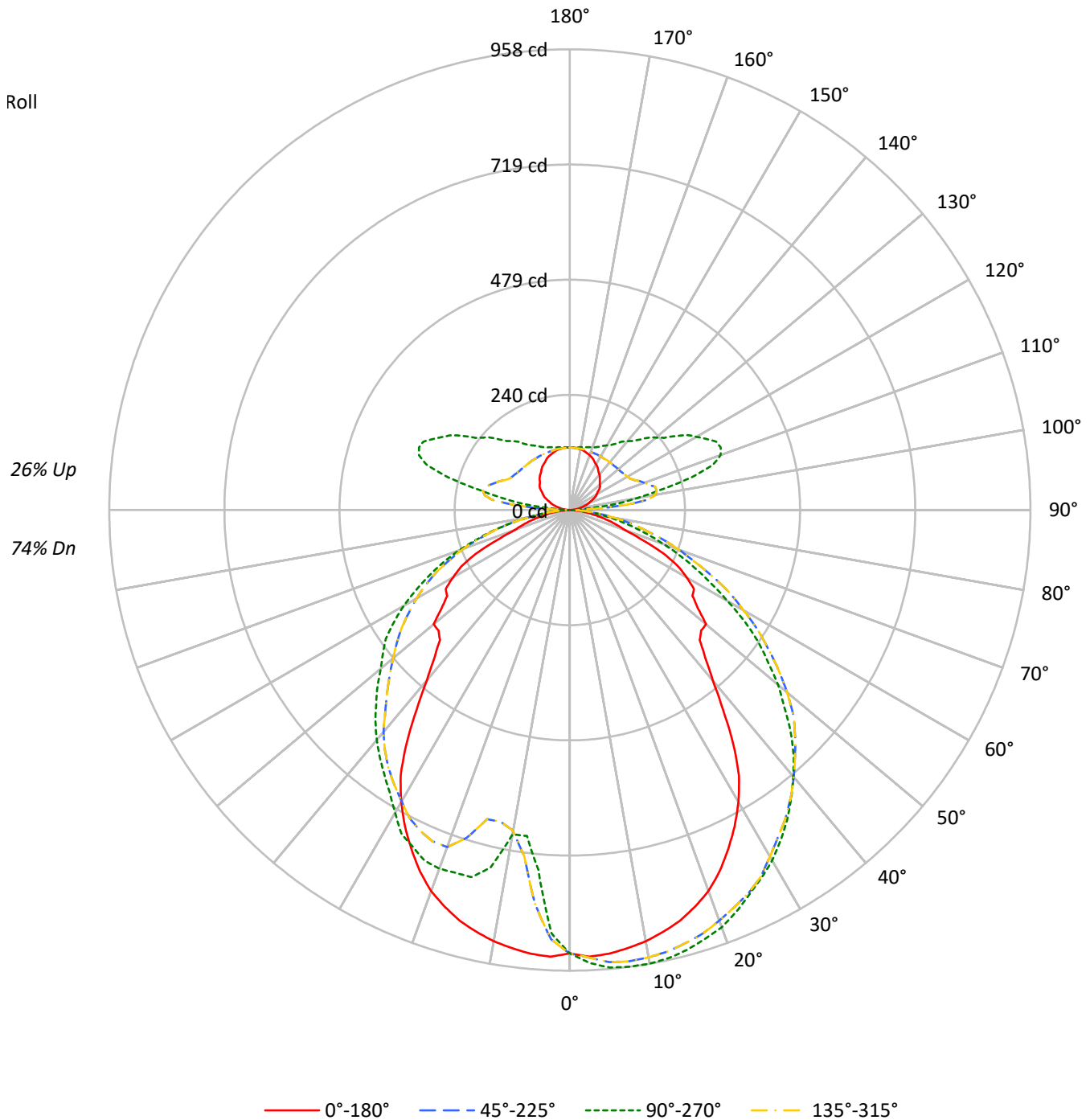
Test Method: LM-79-2019  
Report Number: P933932  
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3234.3 lumens  
Efficiency: N/A  
Efficacy: 107.8 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				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	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

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

	0°	90°	180°	270°
0°	8554	8554	8554	8554
5°	8608	8636	8608	6790
10°	8541	8507	8541	6081
15°	8439	8322	8439	6949
20°	8252	8103	8252	6963
25°	7882	7785	7882	6815
30°	7406	7520	7406	6492
35°	6593	7186	6593	6135
40°	5485	6792	5485	5867
45°	4891	6332	4891	5557
50°	5184	5783	5184	5247
55°	4864	5190	4864	5068
60°	4995	4408	4995	4642
65°	4508	3643	4508	4073
70°	3100	2903	3100	3413
75°	2689	2146	2689	2569
80°	2120	1419	2120	1546
85°	1159	752	1159	638

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7510 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	2.6
10°-20°	236.3	7.3
20°-30°	365.2	11.3
30°-40°	436.0	13.5
40°-50°	438.6	13.6
50°-60°	381.6	11.8
60°-70°	270.6	8.4
70°-80°	143.1	4.4
80°-90°	36.1	1.1
90°-100°	63.4	2.0
100°-110°	166.8	5.2
110°-120°	172.9	5.3
120°-130°	138.7	4.3
130°-140°	108.8	3.4
140°-150°	83.5	2.6
150°-160°	60.2	1.9
160°-170°	36.8	1.1
170°-180°	12.4	0.4
0°-30°	684.7	21.2
0°-40°	1120.7	34.7
0°-60°	1940.9	60.0
0°-90°	2390.7	73.9
90°-120°	403.2	12.5
90°-150°	734.2	22.7
90°-180°	844.0	26.1
0°-180°	3234.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	922	922	922	922	922	
5°	926	955	926	751	926	88
15°	884	946	884	790	884	249
25°	779	883	779	773	779	358
35°	592	788	592	672	592	366
45°	382	649	382	570	382	306
55°	311	479	311	468	311	286
65°	216	289	216	323	216	207
75°	82	137	82	164	82	86
85°	14	35	14	30	14	19
90°	1	3	1	3	1	1
95°	8	38	8	38	8	9
105°	30	261	30	261	30	32
115°	53	336	53	336	53	53
125°	74	268	74	268	74	66
135°	88	208	88	208	88	68
145°	103	169	103	169	103	64
155°	116	145	116	145	116	53
165°	125	135	125	135	125	35
175°	130	131	130	131	130	12
180°	130	130	130	130	130	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	929.7	929.7	935.0	936.7	936.7	934.1	931.5	934.1	942.0	944.6	943.7
5°	926.2	933.3	942.8	944.6	946.3	945.5	943.7	945.5	954.2	955.9	956.8
7.5°	919.2	932.4	944.6	947.2	949.8	947.2	946.3	948.1	956.8	958.5	958.5
10°	910.5	928.8	942.8	944.6	947.2	944.6	944.6	948.1	956.8	958.5	959.4
12.5°	898.3	923.6	936.7	938.5	942.0	941.1	940.2	943.7	952.4	954.2	954.2
15°	884.3	914.0	926.2	927.9	934.1	932.4	932.4	935.9	945.5	948.1	947.2
17.5°	865.1	901.8	915.7	918.3	922.7	921.8	922.7	926.2	935.0	936.7	937.6
20°	843.3	885.2	901.8	904.4	908.7	908.7	908.7	913.1	921.8	925.3	925.3
22.5°	813.7	867.8	885.2	886.9	892.2	892.2	893.9	900.0	907.9	908.7	908.7
25°	778.8	848.6	863.4	868.6	873.9	876.5	879.1	882.6	885.2	884.3	885.2
27.5°	742.2	824.2	843.3	846.8	853.8	856.4	859.9	860.8	861.7	864.3	862.5
30°	701.2	790.2	818.9	822.4	833.8	835.5	832.0	833.8	838.1	839.9	841.6
32.5°	655.0	739.6	793.6	801.5	812.0	806.7	805.8	808.5	815.4	815.4	817.2
35°	592.2	700.3	770.1	777.1	784.9	778.8	782.3	783.2	787.5	790.2	789.3
37.5°	523.3	666.3	745.7	750.9	757.0	749.2	754.4	757.0	760.5	758.8	758.8
40°	462.3	613.1	716.9	720.4	725.6	719.5	724.7	726.5	728.2	726.5	725.6
42.5°	416.9	554.7	686.4	690.7	687.2	691.6	693.4	696.8	694.2	690.7	690.7
45°	382.0	539.0	653.2	658.5	653.2	660.2	662.8	662.8	655.0	653.2	652.4
47.5°	370.7	507.6	620.1	620.1	617.5	626.2	630.6	624.5	616.6	614.0	614.0
50°	369.8	472.7	574.8	571.3	583.5	593.9	589.6	583.5	577.4	567.8	567.8
52.5°	335.8	430.0	516.3	529.4	548.6	554.7	547.7	541.6	531.2	526.8	523.3
55°	311.4	385.5	463.1	489.3	509.4	517.2	504.1	498.0	482.3	479.7	478.0
57.5°	306.1	321.0	414.3	447.4	471.9	471.0	463.1	451.8	438.7	436.1	435.2
60°	280.8	232.0	362.0	401.2	426.5	423.9	416.9	406.5	394.2	392.5	390.8
62.5°	254.6	168.3	302.6	347.2	382.9	382.0	375.9	360.2	351.5	347.2	343.7
65°	216.3	141.3	215.4	288.6	340.2	341.9	328.8	317.5	307.8	302.6	301.7
67.5°	164.8	115.1	145.6	240.7	299.1	297.4	280.8	275.6	263.4	260.7	255.5
70°	122.1	76.7	101.2	195.3	259.0	254.6	241.6	235.4	224.1	218.0	214.5
72.5°	101.2	61.9	74.1	151.7	218.0	212.8	201.4	194.5	184.9	179.6	176.2
75°	82.0	65.4	56.7	112.5	177.0	173.5	163.1	156.1	148.2	141.3	142.1
77.5°	60.2	61.0	45.3	82.8	140.4	135.2	129.1	120.3	116.9	109.9	109.9
80°	45.3	48.0	34.0	56.7	101.2	101.2	95.9	89.8	83.7	80.2	80.2
82.5°	30.5	30.5	25.3	35.8	68.9	66.3	62.8	61.0	57.6	55.8	55.8
85°	14.0	17.4	15.7	21.8	37.5	39.2	39.2	37.5	36.6	34.9	35.8
87.5°	4.4	7.8	9.6	12.2	19.2	20.1	20.9	20.9	20.9	21.8	21.8
90°	0.9	1.6	2.3	2.4	3.8	5.7	6.6	5.9	4.4	3.3	3.3
92.5°	3.5	9.4	15.3	16.8	23.7	32.9	37.4	32.8	23.5	16.6	15.9
95°	8.4	19.3	30.2	32.9	58.3	92.3	109.3	97.5	73.9	56.3	54.3
97.5°	14.5	24.1	33.7	36.1	78.6	135.2	163.5	156.1	141.2	130.0	126.2
100°	19.2	27.9	36.6	38.8	85.9	148.8	180.2	180.7	181.8	182.6	178.1
102.5°	23.2	31.3	39.5	41.5	89.3	153.0	184.9	194.4	213.3	227.5	223.6
105°	30.1	37.0	43.8	45.5	91.8	153.5	184.3	205.6	248.1	279.9	277.8
107.5°	37.1	43.4	49.9	51.5	92.3	146.7	173.9	203.5	262.7	307.2	307.7
110°	41.8	47.5	53.3	54.8	91.6	140.7	165.2	198.3	264.5	314.2	316.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	46.4	51.9	57.4	58.8	91.6	135.3	157.2	191.1	258.9	309.7	313.1
115°	53.4	58.4	63.5	64.8	92.4	129.3	147.7	180.3	245.7	294.6	299.2
117.5°	60.3	64.9	69.5	70.6	94.2	125.5	141.2	170.7	229.5	273.7	278.9
120°	64.3	68.6	73.0	74.0	95.5	124.2	138.5	165.4	219.3	259.7	264.7
122.5°	68.2	72.6	76.9	78.0	97.5	123.5	136.5	160.7	209.2	245.6	250.4
125°	74.2	78.2	82.2	83.3	100.3	123.0	134.3	154.9	196.1	227.0	231.5
127.5°	79.1	83.2	87.2	88.2	103.0	122.6	132.5	150.2	185.6	212.1	215.9
130°	81.7	86.1	90.4	91.6	105.0	122.9	131.8	147.5	179.0	202.7	206.1
132.5°	84.5	88.9	93.2	94.3	106.6	123.0	131.2	145.3	173.4	194.6	197.8
135°	88.5	92.4	96.4	97.4	108.3	122.9	130.1	141.9	165.5	183.2	185.9
137.5°	92.6	96.5	100.5	101.4	110.9	123.6	129.9	139.9	159.8	174.8	177.1
140°	96.0	99.6	103.2	104.1	112.5	123.7	129.3	138.0	155.2	168.1	170.2
142.5°	98.6	101.9	105.3	106.1	113.9	124.2	129.3	136.9	152.1	163.4	165.3
145°	102.6	105.5	108.5	109.2	115.6	124.2	128.5	134.6	147.0	156.4	157.8
147.5°	106.6	109.4	112.3	113.0	118.2	125.0	128.5	133.3	143.1	150.4	151.6
150°	109.3	111.8	114.4	115.0	119.5	125.5	128.5	132.5	140.8	147.0	147.9
152.5°	112.0	113.9	115.8	116.3	120.3	125.7	128.5	131.9	139.0	144.3	145.0
155°	116.0	117.4	118.9	119.2	122.3	126.4	128.5	131.2	136.9	141.1	141.5
157.5°	118.9	120.3	121.7	122.1	124.2	127.1	128.5	130.6	135.0	138.2	138.6
160°	121.0	122.0	123.1	123.4	125.0	127.3	128.5	130.3	134.0	136.8	137.0
162.5°	123.0	123.7	124.6	124.8	126.0	127.7	128.5	130.0	133.2	135.5	135.7
165°	125.1	125.8	126.6	126.8	127.3	128.1	128.5	129.6	131.9	133.5	133.7
167.5°	127.1	127.5	127.8	127.9	128.4	129.0	129.3	130.0	131.5	132.6	132.7
170°	128.5	128.8	129.1	129.2	129.2	129.3	129.3	130.0	131.5	132.6	132.6
172.5°	129.1	129.2	129.3	129.3	129.3	129.3	129.3	129.9	131.1	131.9	131.9
175°	130.1	130.1	130.1	130.1	129.8	129.5	129.3	129.7	130.5	131.0	131.0
177.5°	130.1	130.1	130.1	130.1	129.9	129.7	129.5	129.8	130.4	130.8	130.7
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	945.5	942.8	945.5	943.7	944.6	942.0	934.1	931.5	934.1	936.7	936.7
5°	956.8	955.1	956.8	956.8	955.9	954.2	945.5	943.7	945.5	946.3	944.6
7.5°	960.3	957.7	960.3	958.5	958.5	956.8	948.1	946.3	947.2	949.8	947.2
10°	960.3	957.7	960.3	959.4	958.5	956.8	948.1	944.6	944.6	947.2	944.6
12.5°	955.9	954.2	955.9	954.2	954.2	952.4	943.7	940.2	941.1	942.0	938.5
15°	948.9	946.3	948.9	947.2	948.1	945.5	935.9	932.4	932.4	934.1	927.9
17.5°	938.5	935.0	938.5	937.6	936.7	935.0	926.2	922.7	921.8	922.7	918.3
20°	926.2	923.6	926.2	925.3	925.3	921.8	913.1	908.7	908.7	908.7	904.4
22.5°	907.0	904.4	907.0	908.7	908.7	907.9	900.0	893.9	892.2	892.2	886.9
25°	885.2	882.6	885.2	885.2	884.3	885.2	882.6	879.1	876.5	873.9	868.6
27.5°	864.3	862.5	864.3	862.5	864.3	861.7	860.8	859.9	856.4	853.8	846.8
30°	843.3	841.6	843.3	841.6	839.9	838.1	833.8	832.0	835.5	833.8	822.4
32.5°	817.2	815.4	817.2	817.2	815.4	815.4	808.5	805.8	806.7	812.0	801.5
35°	790.2	787.5	790.2	789.3	790.2	787.5	783.2	782.3	778.8	784.9	777.1
37.5°	758.8	756.1	758.8	758.8	758.8	760.5	757.0	754.4	749.2	757.0	750.9
40°	726.5	723.0	726.5	725.6	726.5	728.2	726.5	724.7	719.5	725.6	720.4
42.5°	689.9	689.0	689.9	690.7	690.7	694.2	696.8	693.4	691.6	687.2	690.7
45°	650.6	648.9	650.6	652.4	653.2	655.0	662.8	662.8	660.2	653.2	658.5
47.5°	608.8	604.4	608.8	614.0	614.0	616.6	624.5	630.6	626.2	617.5	620.1
50°	564.3	565.2	564.3	567.8	567.8	577.4	583.5	589.6	593.9	583.5	571.3
52.5°	520.7	519.8	520.7	523.3	526.8	531.2	541.6	547.7	554.7	548.6	529.4
55°	477.1	478.8	477.1	478.0	479.7	482.3	498.0	504.1	517.2	509.4	489.3
57.5°	433.5	430.9	433.5	435.2	436.1	438.7	451.8	463.1	471.0	471.9	447.4
60°	382.9	379.4	382.9	390.8	392.5	394.2	406.5	416.9	423.9	426.5	401.2
62.5°	338.4	332.3	338.4	343.7	347.2	351.5	360.2	375.9	382.0	382.9	347.2
65°	291.3	288.6	291.3	301.7	302.6	307.8	317.5	328.8	341.9	340.2	288.6
67.5°	248.5	248.5	248.5	255.5	260.7	263.4	275.6	280.8	297.4	299.1	240.7
70°	209.3	208.4	209.3	214.5	218.0	224.1	235.4	241.6	254.6	259.0	195.3
72.5°	171.8	170.9	171.8	176.2	179.6	184.9	194.5	201.4	212.8	218.0	151.7
75°	138.7	136.9	138.7	142.1	141.3	148.2	156.1	163.1	173.5	177.0	112.5
77.5°	106.4	106.4	106.4	109.9	109.9	116.9	120.3	129.1	135.2	140.4	82.8
80°	79.4	78.5	79.4	80.2	80.2	83.7	89.8	95.9	101.2	101.2	56.7
82.5°	55.8	54.1	55.8	55.8	55.8	57.6	61.0	62.8	66.3	68.9	35.8
85°	34.9	34.9	34.9	35.8	34.9	36.6	37.5	39.2	39.2	37.5	21.8
87.5°	22.7	21.8	22.7	21.8	21.8	20.9	20.9	20.9	20.1	19.2	12.2
90°	3.3	3.3	3.3	3.3	3.3	4.4	5.9	6.6	5.7	3.8	2.4
92.5°	13.3	10.6	13.3	15.9	16.6	23.5	32.8	37.4	32.9	23.7	16.8
95°	46.4	38.4	46.4	54.3	56.3	73.9	97.5	109.3	92.3	58.3	32.9
97.5°	111.0	95.8	111.0	126.2	130.0	141.2	156.1	163.5	135.2	78.6	36.1
100°	160.0	141.9	160.0	178.1	182.6	181.8	180.7	180.2	148.8	85.9	38.8
102.5°	208.1	192.5	208.1	223.6	227.5	213.3	194.4	184.9	153.0	89.3	41.5
105°	269.5	261.2	269.5	277.8	279.9	248.1	205.6	184.3	153.5	91.8	45.5
107.5°	309.7	311.8	309.7	307.7	307.2	262.7	203.5	173.9	146.7	92.3	51.5
110°	325.0	333.7	325.0	316.4	314.2	264.5	198.3	165.2	140.7	91.6	54.8





TEST NUMBER: P933932

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	326.4	339.7	326.4	313.1	309.7	258.9	191.1	157.2	135.3	91.6	58.8
115°	317.8	336.3	317.8	299.2	294.6	245.7	180.3	147.7	129.3	92.4	64.8
117.5°	299.4	319.9	299.4	278.9	273.7	229.5	170.7	141.2	125.5	94.2	70.6
120°	284.6	304.5	284.6	264.7	259.7	219.3	165.4	138.5	124.2	95.5	74.0
122.5°	270.2	289.9	270.2	250.4	245.6	209.2	160.7	136.5	123.5	97.5	78.0
125°	249.7	267.8	249.7	231.5	227.0	196.1	154.9	134.3	123.0	100.3	83.3
127.5°	231.2	246.4	231.2	215.9	212.1	185.6	150.2	132.5	122.6	103.0	88.2
130°	220.3	234.4	220.3	206.1	202.7	179.0	147.5	131.8	122.9	105.0	91.6
132.5°	210.4	223.1	210.4	197.8	194.6	173.4	145.3	131.2	123.0	106.6	94.3
135°	196.9	207.8	196.9	185.9	183.2	165.5	141.9	130.1	122.9	108.3	97.4
137.5°	186.0	195.0	186.0	177.1	174.8	159.8	139.9	129.9	123.6	110.9	101.4
140°	178.5	186.9	178.5	170.2	168.1	155.2	138.0	129.3	123.7	112.5	104.1
142.5°	172.4	179.6	172.4	165.3	163.4	152.1	136.9	129.3	124.2	113.9	106.1
145°	163.2	168.6	163.2	157.8	156.4	147.0	134.6	128.5	124.2	115.6	109.2
147.5°	156.0	160.5	156.0	151.6	150.4	143.1	133.3	128.5	125.0	118.2	113.0
150°	151.6	155.2	151.6	147.9	147.0	140.8	132.5	128.5	125.5	119.5	115.0
152.5°	147.7	150.5	147.7	145.0	144.3	139.0	131.9	128.5	125.7	120.3	116.3
155°	143.4	145.2	143.4	141.5	141.1	136.9	131.2	128.5	126.4	122.3	119.2
157.5°	139.9	141.2	139.9	138.6	138.2	135.0	130.6	128.5	127.1	124.2	122.1
160°	137.8	138.5	137.8	137.0	136.8	134.0	130.3	128.5	127.3	125.0	123.4
162.5°	136.4	137.1	136.4	135.7	135.5	133.2	130.0	128.5	127.7	126.0	124.8
165°	134.5	135.2	134.5	133.7	133.5	131.9	129.6	128.5	128.1	127.3	126.8
167.5°	133.0	133.3	133.0	132.7	132.6	131.5	130.0	129.3	129.0	128.4	127.9
170°	132.6	132.6	132.6	132.6	132.6	131.5	130.0	129.3	129.3	129.2	129.2
172.5°	131.6	131.3	131.6	131.9	131.9	131.1	129.9	129.3	129.3	129.3	129.3
175°	131.0	131.0	131.0	131.0	131.0	130.5	129.7	129.3	129.5	129.8	130.1
177.5°	130.5	130.1	130.5	130.7	130.8	130.4	129.8	129.5	129.7	129.9	130.1
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



TEST NUMBER: P933932

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	935.0	929.7	929.7	921.0	917.5	914.9	910.5	897.4	893.9	890.4	895.7
5°	942.8	933.3	926.2	910.5	897.4	892.2	875.6	844.2	823.3	807.6	798.9
7.5°	944.6	932.4	919.2	894.8	863.4	849.4	798.9	741.3	725.6	711.7	702.9
10°	942.8	928.8	910.5	873.9	799.7	775.3	724.7	687.2	677.7	675.0	677.7
12.5°	936.7	923.6	898.3	837.2	733.5	716.9	687.2	665.4	663.7	668.1	691.6
15°	926.2	914.0	884.3	788.4	696.8	684.6	663.7	655.9	665.4	696.0	766.6
17.5°	915.7	901.8	865.1	740.4	668.9	660.2	645.4	661.1	715.2	756.1	779.7
20°	901.8	885.2	843.3	705.6	648.9	641.0	634.1	704.7	745.7	760.5	773.6
22.5°	885.2	867.8	813.7	681.1	628.0	621.8	626.2	729.1	745.7	756.1	767.5
25°	863.4	848.6	778.8	662.0	611.4	604.4	621.0	726.5	736.1	738.7	761.4
27.5°	843.3	824.2	742.2	644.5	591.3	588.7	625.3	715.2	722.1	724.7	749.2
30°	818.9	790.2	701.2	626.2	570.4	569.5	626.2	701.2	699.5	706.4	730.9
32.5°	793.6	739.6	655.0	603.5	550.3	549.5	620.1	680.3	678.5	688.1	706.4
35°	770.1	700.3	592.2	577.4	525.1	525.9	605.3	655.9	656.7	665.4	676.8
37.5°	745.7	666.3	523.3	548.6	500.6	500.6	585.2	633.2	631.4	634.1	649.8
40°	716.9	613.1	462.3	511.1	478.0	475.3	560.8	608.8	602.7	601.8	623.6
42.5°	686.4	554.7	416.9	461.4	451.8	448.3	531.2	579.1	567.8	570.4	598.3
45°	653.2	539.0	382.0	389.9	424.8	422.2	498.9	545.1	537.3	544.2	573.0
47.5°	620.1	507.6	370.7	323.6	396.0	395.1	463.1	512.0	507.6	514.6	545.1
50°	574.8	472.7	369.8	277.3	363.7	367.2	420.4	479.7	479.7	485.8	518.1
52.5°	516.3	430.0	335.8	251.1	326.2	336.7	382.9	451.8	453.5	459.6	488.4
55°	463.1	385.5	311.4	231.1	281.7	304.3	346.3	423.0	426.5	432.6	458.8
57.5°	414.3	321.0	306.1	207.5	240.7	262.5	314.0	395.1	396.9	402.1	427.4
60°	362.0	232.0	280.8	182.3	204.9	221.5	284.3	362.0	368.1	371.6	393.4
62.5°	302.6	168.3	254.6	164.8	187.5	191.0	259.9	330.6	338.4	341.1	354.1
65°	215.4	141.3	216.3	150.0	169.2	170.0	233.7	298.2	305.2	309.6	319.3
67.5°	145.6	115.1	164.8	136.0	155.2	156.1	208.4	260.7	270.3	273.8	279.9
70°	101.2	76.7	122.1	121.2	139.5	141.3	181.4	226.7	235.4	238.1	241.6
72.5°	74.1	61.9	101.2	109.0	123.0	124.7	153.5	188.4	197.1	199.7	201.4
75°	56.7	65.4	82.0	95.1	104.6	105.5	125.6	153.5	159.6	161.3	162.2
77.5°	45.3	61.0	60.2	76.7	85.5	83.7	98.5	118.6	123.8	123.8	123.8
80°	34.0	48.0	45.3	54.9	62.8	61.0	70.6	84.6	86.3	88.1	87.2
82.5°	25.3	30.5	30.5	34.9	41.9	40.1	47.1	54.9	54.9	54.9	56.7
85°	15.7	17.4	14.0	18.3	23.5	22.7	26.2	29.6	30.5	30.5	28.8
87.5°	9.6	7.8	4.4	7.0	10.5	10.5	12.2	13.1	12.2	12.2	12.2
90°	2.3	1.6	0.9	1.6	2.3	2.4	3.8	5.7	6.6	5.9	4.4
92.5°	15.3	9.4	3.5	9.4	15.3	16.8	23.7	32.9	37.4	32.8	23.5
95°	30.2	19.3	8.4	19.3	30.2	32.9	58.3	92.3	109.3	97.5	73.9
97.5°	33.7	24.1	14.5	24.1	33.7	36.1	78.6	135.2	163.5	156.1	141.2
100°	36.6	27.9	19.2	27.9	36.6	38.8	85.9	148.8	180.2	180.7	181.8
102.5°	39.5	31.3	23.2	31.3	39.5	41.5	89.3	153.0	184.9	194.4	213.3
105°	43.8	37.0	30.1	37.0	43.8	45.5	91.8	153.5	184.3	205.6	248.1
107.5°	49.9	43.4	37.1	43.4	49.9	51.5	92.3	146.7	173.9	203.5	262.7
110°	53.3	47.5	41.8	47.5	53.3	54.8	91.6	140.7	165.2	198.3	264.5



TEST NUMBER: P933932

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	57.4	51.9	46.4	51.9	57.4	58.8	91.6	135.3	157.2	191.1	258.9
115°	63.5	58.4	53.4	58.4	63.5	64.8	92.4	129.3	147.7	180.3	245.7
117.5°	69.5	64.9	60.3	64.9	69.5	70.6	94.2	125.5	141.2	170.7	229.5
120°	73.0	68.6	64.3	68.6	73.0	74.0	95.5	124.2	138.5	165.4	219.3
122.5°	76.9	72.6	68.2	72.6	76.9	78.0	97.5	123.5	136.5	160.7	209.2
125°	82.2	78.2	74.2	78.2	82.2	83.3	100.3	123.0	134.3	154.9	196.1
127.5°	87.2	83.2	79.1	83.2	87.2	88.2	103.0	122.6	132.5	150.2	185.6
130°	90.4	86.1	81.7	86.1	90.4	91.6	105.0	122.9	131.8	147.5	179.0
132.5°	93.2	88.9	84.5	88.9	93.2	94.3	106.6	123.0	131.2	145.3	173.4
135°	96.4	92.4	88.5	92.4	96.4	97.4	108.3	122.9	130.1	141.9	165.5
137.5°	100.5	96.5	92.6	96.5	100.5	101.4	110.9	123.6	129.9	139.9	159.8
140°	103.2	99.6	96.0	99.6	103.2	104.1	112.5	123.7	129.3	138.0	155.2
142.5°	105.3	101.9	98.6	101.9	105.3	106.1	113.9	124.2	129.3	136.9	152.1
145°	108.5	105.5	102.6	105.5	108.5	109.2	115.6	124.2	128.5	134.6	147.0
147.5°	112.3	109.4	106.6	109.4	112.3	113.0	118.2	125.0	128.5	133.3	143.1
150°	114.4	111.8	109.3	111.8	114.4	115.0	119.5	125.5	128.5	132.5	140.8
152.5°	115.8	113.9	112.0	113.9	115.8	116.3	120.3	125.7	128.5	131.9	139.0
155°	118.9	117.4	116.0	117.4	118.9	119.2	122.3	126.4	128.5	131.2	136.9
157.5°	121.7	120.3	118.9	120.3	121.7	122.1	124.2	127.1	128.5	130.6	135.0
160°	123.1	122.0	121.0	122.0	123.1	123.4	125.0	127.3	128.5	130.3	134.0
162.5°	124.6	123.7	123.0	123.7	124.6	124.8	126.0	127.7	128.5	130.0	133.2
165°	126.6	125.8	125.1	125.8	126.6	126.8	127.3	128.1	128.5	129.6	131.9
167.5°	127.8	127.5	127.1	127.5	127.8	127.9	128.4	129.0	129.3	130.0	131.5
170°	129.1	128.8	128.5	128.8	129.1	129.2	129.2	129.3	129.3	130.0	131.5
172.5°	129.3	129.2	129.1	129.2	129.3	129.3	129.3	129.3	129.3	129.9	131.1
175°	130.1	130.1	130.1	130.1	130.1	130.1	129.8	129.5	129.3	129.7	130.5
177.5°	130.1	130.1	130.1	130.1	130.1	130.1	129.9	129.7	129.5	129.8	130.4
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



TEST NUMBER: P933932

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	889.6	886.9	890.4	880.8	890.4	886.9	889.6	895.7	890.4	893.9	897.4
5°	780.6	776.2	762.2	750.9	762.2	776.2	780.6	798.9	807.6	823.3	844.2
7.5°	697.7	694.2	690.7	683.8	690.7	694.2	697.7	702.9	711.7	725.6	741.3
10°	679.4	680.3	685.5	684.6	685.5	680.3	679.4	677.7	675.0	677.7	687.2
12.5°	726.5	734.3	763.1	761.4	763.1	734.3	726.5	691.6	668.1	663.7	665.4
15°	780.6	783.2	789.3	790.2	789.3	783.2	780.6	766.6	696.0	665.4	655.9
17.5°	785.8	786.7	791.0	791.0	791.0	786.7	785.8	779.7	756.1	715.2	661.1
20°	781.4	783.2	791.9	793.6	791.9	783.2	781.4	773.6	760.5	745.7	704.7
22.5°	779.7	783.2	790.2	789.3	790.2	783.2	779.7	767.5	756.1	745.7	729.1
25°	771.0	771.0	771.8	772.7	771.8	771.0	771.0	761.4	738.7	736.1	726.5
27.5°	752.7	754.4	759.6	758.8	759.6	754.4	752.7	749.2	724.7	722.1	715.2
30°	736.1	734.3	730.0	726.5	730.0	734.3	736.1	730.9	706.4	699.5	701.2
32.5°	708.2	703.8	699.5	696.8	699.5	703.8	708.2	706.4	688.1	678.5	680.3
35°	675.0	675.9	675.0	672.4	675.0	675.9	675.0	676.8	665.4	656.7	655.9
37.5°	651.5	653.2	652.4	648.9	652.4	653.2	651.5	649.8	634.1	631.4	633.2
40°	627.1	628.0	627.1	624.5	627.1	628.0	627.1	623.6	601.8	602.7	608.8
42.5°	603.5	602.7	600.0	598.3	600.0	602.7	603.5	598.3	570.4	567.8	579.1
45°	576.5	577.4	572.1	569.5	572.1	577.4	576.5	573.0	544.2	537.3	545.1
47.5°	549.5	549.5	545.1	542.5	545.1	549.5	549.5	545.1	514.6	507.6	512.0
50°	520.7	519.8	513.7	512.8	513.7	519.8	520.7	518.1	485.8	479.7	479.7
52.5°	487.6	487.6	488.4	490.2	488.4	487.6	487.6	488.4	459.6	453.5	451.8
55°	458.8	459.6	465.8	467.5	465.8	459.6	458.8	458.8	432.6	426.5	423.0
57.5°	429.1	429.1	433.5	433.5	433.5	429.1	429.1	427.4	402.1	396.9	395.1
60°	395.1	396.9	400.4	399.5	400.4	396.9	395.1	393.4	371.6	368.1	362.0
62.5°	359.4	361.1	362.0	360.2	362.0	361.1	359.4	354.1	341.1	338.4	330.6
65°	321.9	323.6	324.5	322.7	324.5	323.6	321.9	319.3	309.6	305.2	298.2
67.5°	283.4	282.5	281.7	285.2	281.7	282.5	283.4	279.9	273.8	270.3	260.7
70°	244.2	244.2	243.3	245.0	243.3	244.2	244.2	241.6	238.1	235.4	226.7
72.5°	202.3	201.4	204.9	202.3	204.9	201.4	202.3	201.4	199.7	197.1	188.4
75°	161.3	163.1	161.3	163.9	161.3	163.1	161.3	162.2	161.3	159.6	153.5
77.5°	123.0	124.7	123.0	123.0	123.0	124.7	123.0	123.8	123.8	123.8	118.6
80°	87.2	86.3	86.3	85.5	86.3	86.3	87.2	87.2	88.1	86.3	84.6
82.5°	55.8	54.9	54.9	56.7	54.9	54.9	55.8	56.7	54.9	54.9	54.9
85°	30.5	31.4	29.6	29.6	29.6	31.4	30.5	28.8	30.5	30.5	29.6
87.5°	11.3	10.5	10.5	10.5	10.5	10.5	11.3	12.2	12.2	12.2	13.1
90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	5.9	6.6	5.7
92.5°	16.6	15.9	13.3	10.6	13.3	15.9	16.6	23.5	32.8	37.4	32.9
95°	56.3	54.3	46.4	38.4	46.4	54.3	56.3	73.9	97.5	109.3	92.3
97.5°	130.0	126.2	111.0	95.8	111.0	126.2	130.0	141.2	156.1	163.5	135.2
100°	182.6	178.1	160.0	141.9	160.0	178.1	182.6	181.8	180.7	180.2	148.8
102.5°	227.5	223.6	208.1	192.5	208.1	223.6	227.5	213.3	194.4	184.9	153.0
105°	279.9	277.8	269.5	261.2	269.5	277.8	279.9	248.1	205.6	184.3	153.5
107.5°	307.2	307.7	309.7	311.8	309.7	307.7	307.2	262.7	203.5	173.9	146.7
110°	314.2	316.4	325.0	333.7	325.0	316.4	314.2	264.5	198.3	165.2	140.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	309.7	313.1	326.4	339.7	326.4	313.1	309.7	258.9	191.1	157.2	135.3
115°	294.6	299.2	317.8	336.3	317.8	299.2	294.6	245.7	180.3	147.7	129.3
117.5°	273.7	278.9	299.4	319.9	299.4	278.9	273.7	229.5	170.7	141.2	125.5
120°	259.7	264.7	284.6	304.5	284.6	264.7	259.7	219.3	165.4	138.5	124.2
122.5°	245.6	250.4	270.2	289.9	270.2	250.4	245.6	209.2	160.7	136.5	123.5
125°	227.0	231.5	249.7	267.8	249.7	231.5	227.0	196.1	154.9	134.3	123.0
127.5°	212.1	215.9	231.2	246.4	231.2	215.9	212.1	185.6	150.2	132.5	122.6
130°	202.7	206.1	220.3	234.4	220.3	206.1	202.7	179.0	147.5	131.8	122.9
132.5°	194.6	197.8	210.4	223.1	210.4	197.8	194.6	173.4	145.3	131.2	123.0
135°	183.2	185.9	196.9	207.8	196.9	185.9	183.2	165.5	141.9	130.1	122.9
137.5°	174.8	177.1	186.0	195.0	186.0	177.1	174.8	159.8	139.9	129.9	123.6
140°	168.1	170.2	178.5	186.9	178.5	170.2	168.1	155.2	138.0	129.3	123.7
142.5°	163.4	165.3	172.4	179.6	172.4	165.3	163.4	152.1	136.9	129.3	124.2
145°	156.4	157.8	163.2	168.6	163.2	157.8	156.4	147.0	134.6	128.5	124.2
147.5°	150.4	151.6	156.0	160.5	156.0	151.6	150.4	143.1	133.3	128.5	125.0
150°	147.0	147.9	151.6	155.2	151.6	147.9	147.0	140.8	132.5	128.5	125.5
152.5°	144.3	145.0	147.7	150.5	147.7	145.0	144.3	139.0	131.9	128.5	125.7
155°	141.1	141.5	143.4	145.2	143.4	141.5	141.1	136.9	131.2	128.5	126.4
157.5°	138.2	138.6	139.9	141.2	139.9	138.6	138.2	135.0	130.6	128.5	127.1
160°	136.8	137.0	137.8	138.5	137.8	137.0	136.8	134.0	130.3	128.5	127.3
162.5°	135.5	135.7	136.4	137.1	136.4	135.7	135.5	133.2	130.0	128.5	127.7
165°	133.5	133.7	134.5	135.2	134.5	133.7	133.5	131.9	129.6	128.5	128.1
167.5°	132.6	132.7	133.0	133.3	133.0	132.7	132.6	131.5	130.0	129.3	129.0
170°	132.6	132.6	132.6	132.6	132.6	132.6	132.6	131.5	130.0	129.3	129.3
172.5°	131.9	131.9	131.6	131.3	131.6	131.9	131.9	131.1	129.9	129.3	129.3
175°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	130.5	129.7	129.3	129.5
177.5°	130.8	130.7	130.5	130.1	130.5	130.7	130.8	130.4	129.8	129.5	129.7
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	921.8	921.8	921.8	921.8	921.8
2.5°	910.5	914.9	917.5	921.0	929.7
5°	875.6	892.2	897.4	910.5	926.2
7.5°	798.9	849.4	863.4	894.8	919.2
10°	724.7	775.3	799.7	873.9	910.5
12.5°	687.2	716.9	733.5	837.2	898.3
15°	663.7	684.6	696.8	788.4	884.3
17.5°	645.4	660.2	668.9	740.4	865.1
20°	634.1	641.0	648.9	705.6	843.3
22.5°	626.2	621.8	628.0	681.1	813.7
25°	621.0	604.4	611.4	662.0	778.8
27.5°	625.3	588.7	591.3	644.5	742.2
30°	626.2	569.5	570.4	626.2	701.2
32.5°	620.1	549.5	550.3	603.5	655.0
35°	605.3	525.9	525.1	577.4	592.2
37.5°	585.2	500.6	500.6	548.6	523.3
40°	560.8	475.3	478.0	511.1	462.3
42.5°	531.2	448.3	451.8	461.4	416.9
45°	498.9	422.2	424.8	389.9	382.0
47.5°	463.1	395.1	396.0	323.6	370.7
50°	420.4	367.2	363.7	277.3	369.8
52.5°	382.9	336.7	326.2	251.1	335.8
55°	346.3	304.3	281.7	231.1	311.4
57.5°	314.0	262.5	240.7	207.5	306.1
60°	284.3	221.5	204.9	182.3	280.8
62.5°	259.9	191.0	187.5	164.8	254.6
65°	233.7	170.0	169.2	150.0	216.3
67.5°	208.4	156.1	155.2	136.0	164.8
70°	181.4	141.3	139.5	121.2	122.1
72.5°	153.5	124.7	123.0	109.0	101.2
75°	125.6	105.5	104.6	95.1	82.0
77.5°	98.5	83.7	85.5	76.7	60.2
80°	70.6	61.0	62.8	54.9	45.3
82.5°	47.1	40.1	41.9	34.9	30.5
85°	26.2	22.7	23.5	18.3	14.0
87.5°	12.2	10.5	10.5	7.0	4.4
90°	3.8	2.4	2.3	1.6	0.9
92.5°	23.7	16.8	15.3	9.4	3.5
95°	58.3	32.9	30.2	19.3	8.4
97.5°	78.6	36.1	33.7	24.1	14.5
100°	85.9	38.8	36.6	27.9	19.2
102.5°	89.3	41.5	39.5	31.3	23.2
105°	91.8	45.5	43.8	37.0	30.1
107.5°	92.3	51.5	49.9	43.4	37.1
110°	91.6	54.8	53.3	47.5	41.8



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CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	91.6	58.8	57.4	51.9	46.4
115°	92.4	64.8	63.5	58.4	53.4
117.5°	94.2	70.6	69.5	64.9	60.3
120°	95.5	74.0	73.0	68.6	64.3
122.5°	97.5	78.0	76.9	72.6	68.2
125°	100.3	83.3	82.2	78.2	74.2
127.5°	103.0	88.2	87.2	83.2	79.1
130°	105.0	91.6	90.4	86.1	81.7
132.5°	106.6	94.3	93.2	88.9	84.5
135°	108.3	97.4	96.4	92.4	88.5
137.5°	110.9	101.4	100.5	96.5	92.6
140°	112.5	104.1	103.2	99.6	96.0
142.5°	113.9	106.1	105.3	101.9	98.6
145°	115.6	109.2	108.5	105.5	102.6
147.5°	118.2	113.0	112.3	109.4	106.6
150°	119.5	115.0	114.4	111.8	109.3
152.5°	120.3	116.3	115.8	113.9	112.0
155°	122.3	119.2	118.9	117.4	116.0
157.5°	124.2	122.1	121.7	120.3	118.9
160°	125.0	123.4	123.1	122.0	121.0
162.5°	126.0	124.8	124.6	123.7	123.0
165°	127.3	126.8	126.6	125.8	125.1
167.5°	128.4	127.9	127.8	127.5	127.1
170°	129.2	129.2	129.1	128.8	128.5
172.5°	129.3	129.3	129.3	129.2	129.1
175°	129.8	130.1	130.1	130.1	130.1
177.5°	129.9	130.1	130.1	130.1	130.1
180°	130.1	130.1	130.1	130.1	130.1



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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	14.22	15.34	14.94	16.08	16.97	17.01	18.14	17.73	18.88	19.76
	3H	14.71	15.73	15.45	16.48	17.39	18.37	19.38	19.10	20.13	21.05
	4H	14.92	15.87	15.67	16.63	17.56	18.82	19.77	19.57	20.53	21.46
	6H	15.05	15.93	15.82	16.70	17.64	19.11	19.99	19.88	20.76	21.70
	8H	15.06	15.90	15.83	16.69	17.63	19.19	20.03	19.96	20.82	21.76
	12H	15.04	15.84	15.82	16.62	17.59	19.23	20.03	20.01	20.81	21.78
4H	2H	15.27	16.23	16.03	16.99	17.92	17.46	18.41	18.21	19.17	20.10
	3H	16.32	17.12	17.09	17.92	18.86	18.98	19.77	19.75	20.57	21.51
	4H	16.61	17.33	17.40	18.13	19.10	19.51	20.23	20.29	21.03	22.00
	6H	16.75	17.38	17.55	18.20	19.18	19.88	20.51	20.68	21.33	22.31
	8H	16.76	17.35	17.57	18.17	19.16	19.99	20.57	20.80	21.39	22.38
	12H	16.74	17.27	17.57	18.11	19.11	20.05	20.58	20.88	21.42	22.42
8H	4H	17.08	17.67	17.89	18.48	19.47	19.66	20.24	20.46	21.06	22.05
	6H	17.35	17.84	18.19	18.70	19.69	20.09	20.58	20.93	21.44	22.43
	8H	17.40	17.83	18.24	18.68	19.69	20.24	20.67	21.09	21.53	22.54
	12H	17.39	17.77	18.24	18.62	19.69	20.35	20.73	21.20	21.58	22.64
12H	4H	17.10	17.62	17.92	18.46	19.46	19.63	20.16	20.46	21.00	21.99
	6H	17.41	17.85	18.26	18.70	19.71	20.09	20.53	20.94	21.38	22.39
	8H	17.49	17.87	18.34	18.72	19.79	20.26	20.64	21.11	21.49	22.55