

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: P933933

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

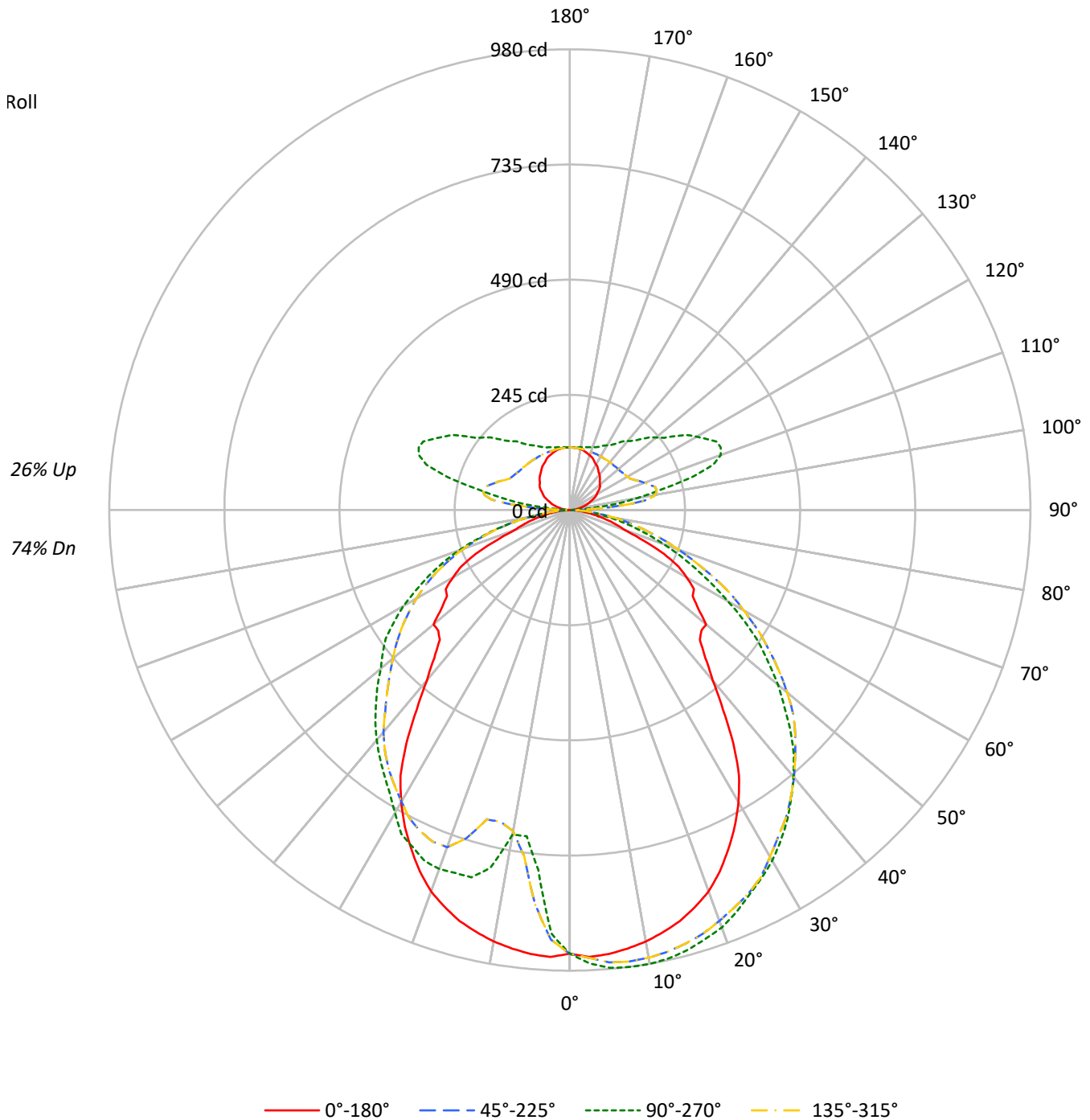
Test Method: LM-79-2019  
Report Number: P933933  
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3310.7 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: 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
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°	8756	8756	8756	8756
5°	8812	8839	8812	6950
10°	8743	8707	8743	6225
15°	8638	8519	8638	7113
20°	8448	8295	8448	7128
25°	8068	7968	8068	6977
30°	7582	7698	7582	6645
35°	6749	7355	6749	6281
40°	5614	6953	5614	6005
45°	5007	6481	5007	5689
50°	5307	5919	5307	5370
55°	4980	5313	4980	5187
60°	5112	4513	5112	4751
65°	4614	3730	4614	4170
70°	3173	2972	3173	3494
75°	2751	2196	2751	2631
80°	2172	1452	2172	1582
85°	1184	769	1184	653

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7688 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	2.6
10°-20°	241.8	7.3
20°-30°	373.8	11.3
30°-40°	446.3	13.5
40°-50°	448.9	13.6
50°-60°	390.6	11.8
60°-70°	276.9	8.4
70°-80°	146.5	4.4
80°-90°	37.0	1.1
90°-100°	64.9	2.0
100°-110°	170.7	5.2
110°-120°	177.0	5.3
120°-130°	142.0	4.3
130°-140°	111.4	3.4
140°-150°	85.5	2.6
150°-160°	61.6	1.9
160°-170°	37.7	1.1
170°-180°	12.7	0.4
0°-30°	700.9	21.2
0°-40°	1147.2	34.7
0°-60°	1986.7	60.0
0°-90°	2447.1	73.9
90°-120°	412.7	12.5
90°-150°	751.6	22.7
90°-180°	864.0	26.1
0°-180°	3310.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	944	944	944	944	944	
5°	948	978	948	769	948	90
15°	905	969	905	809	905	255
25°	797	903	797	791	797	366
35°	606	806	606	688	606	375
45°	391	664	391	583	391	313
55°	319	490	319	478	319	293
65°	221	296	221	330	221	212
75°	84	140	84	168	84	88
85°	14	36	14	30	14	19
90°	1	3	1	3	1	1
95°	9	39	9	39	9	10
105°	31	267	31	267	31	33
115°	55	344	55	344	55	54
125°	76	274	76	274	76	67
135°	91	213	91	213	91	70
145°	105	172	105	172	105	66
155°	119	149	119	149	119	55
165°	128	138	128	138	128	36
175°	133	134	133	134	133	13
180°	133	133	133	133	133	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	951.6	951.6	957.1	958.9	958.9	956.2	953.5	956.2	964.2	966.9	966.0
5°	948.1	955.3	965.1	966.9	968.7	967.8	966.0	967.8	976.7	978.5	979.4
7.5°	940.9	954.4	966.9	969.6	972.2	969.6	968.7	970.5	979.4	981.2	981.2
10°	932.0	950.7	965.1	966.9	969.6	966.9	966.9	970.5	979.4	981.2	982.1
12.5°	919.5	945.4	958.9	960.6	964.2	963.3	962.4	966.0	974.9	976.7	976.7
15°	905.2	935.6	948.1	949.8	956.2	954.4	954.4	958.0	967.8	970.5	969.6
17.5°	885.6	923.1	937.3	940.0	944.5	943.6	944.5	948.1	957.1	958.9	959.7
20°	863.3	906.1	923.1	925.7	930.2	930.2	930.2	934.7	943.6	947.2	947.2
22.5°	832.9	888.2	906.1	907.9	913.2	913.2	915.0	921.3	929.3	930.2	930.2
25°	797.2	868.6	883.8	889.1	894.5	897.2	899.9	903.4	906.1	905.2	906.1
27.5°	759.7	843.6	863.3	866.8	874.0	876.6	880.2	881.1	882.0	884.7	882.9
30°	717.8	808.8	838.3	841.8	853.4	855.2	851.6	853.4	857.9	859.7	861.5
32.5°	670.4	757.0	812.4	820.4	831.1	825.8	824.9	827.5	834.7	834.7	836.5
35°	606.2	716.9	788.3	795.4	803.4	797.2	800.8	801.7	806.1	808.8	807.9
37.5°	535.7	682.1	763.3	768.6	774.9	766.8	772.2	774.9	778.5	776.7	776.7
40°	473.2	627.6	733.8	737.4	742.7	736.5	741.9	743.6	745.4	743.6	742.7
42.5°	426.8	567.8	702.6	707.0	703.5	707.9	709.7	713.3	710.6	707.0	707.0
45°	391.1	551.7	668.7	674.0	668.7	675.8	678.5	678.5	670.4	668.7	667.8
47.5°	379.5	519.6	634.7	634.7	632.1	641.0	645.5	639.2	631.2	628.5	628.5
50°	378.6	483.9	588.3	584.8	597.3	608.0	603.5	597.3	591.0	581.2	581.2
52.5°	343.7	440.2	528.5	541.9	561.5	567.8	560.7	554.4	543.7	539.2	535.7
55°	318.8	394.6	474.1	500.8	521.4	529.4	516.0	509.8	493.7	491.0	489.2
57.5°	313.3	328.6	424.1	458.0	483.0	482.1	474.1	462.5	449.1	446.4	445.5
60°	287.4	237.4	370.5	410.7	436.6	433.9	426.8	416.1	403.6	401.8	400.0
62.5°	260.6	172.3	309.7	355.4	391.9	391.1	384.8	368.7	359.8	355.4	351.8
65°	221.4	144.6	220.5	295.5	348.2	350.0	336.6	325.0	315.1	309.7	308.8
67.5°	168.7	117.8	149.1	246.4	306.2	304.4	287.4	282.1	269.6	266.9	261.5
70°	125.0	78.6	103.5	199.9	265.1	260.6	247.3	241.0	229.4	223.2	219.6
72.5°	103.5	63.4	75.9	155.3	223.2	217.8	206.2	199.1	189.2	183.9	180.3
75°	83.9	66.9	58.0	115.1	181.2	177.6	166.9	159.8	151.7	144.6	145.5
77.5°	61.6	62.5	46.4	84.8	143.7	138.4	132.1	123.2	119.6	112.5	112.5
80°	46.4	49.1	34.8	58.0	103.5	103.5	98.2	91.9	85.7	82.1	82.1
82.5°	31.2	31.2	25.9	36.6	70.5	67.8	64.3	62.5	58.9	57.1	57.1
85°	14.3	17.9	16.1	22.3	38.4	40.2	40.2	38.4	37.5	35.7	36.6
87.5°	4.5	8.0	9.8	12.5	19.6	20.5	21.4	21.4	21.4	22.3	22.3
90°	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6	3.4	3.4
92.5°	3.6	9.6	15.7	17.2	24.3	33.7	38.3	33.6	24.1	17.0	16.2
95°	8.6	19.7	30.9	33.7	59.7	94.4	111.8	99.8	75.7	57.7	55.6
97.5°	14.8	24.6	34.5	37.0	80.4	138.4	167.4	159.8	144.5	133.1	129.2
100°	19.6	28.6	37.5	39.7	87.9	152.3	184.4	185.0	186.1	186.9	182.3
102.5°	23.7	32.0	40.4	42.5	91.4	156.7	189.2	199.0	218.3	232.9	228.9
105°	30.8	37.8	44.8	46.6	94.0	157.1	188.7	210.5	254.0	286.5	284.4
107.5°	37.9	44.5	51.1	52.7	94.4	150.1	178.0	208.3	268.9	314.5	315.0
110°	42.8	48.6	54.5	56.1	93.7	144.0	169.1	203.0	270.7	321.6	323.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.5	53.1	58.7	60.2	93.7	138.5	160.9	195.7	265.0	317.1	320.5
115°	54.6	59.8	65.0	66.3	94.6	132.4	151.2	184.6	251.5	301.5	306.3
117.5°	61.7	66.4	71.1	72.3	96.4	128.4	144.5	174.7	234.9	280.2	285.5
120°	65.8	70.2	74.7	75.8	97.7	127.1	141.7	169.3	224.5	265.8	270.9
122.5°	69.8	74.3	78.7	79.9	99.8	126.4	139.7	164.5	214.1	251.4	256.4
125°	76.0	80.1	84.2	85.2	102.7	125.9	137.5	158.5	200.8	232.3	237.0
127.5°	81.0	85.2	89.3	90.3	105.4	125.5	135.6	153.7	189.9	217.1	221.0
130°	83.6	88.1	92.6	93.7	107.5	125.8	134.9	151.0	183.3	207.4	211.0
132.5°	86.5	91.0	95.4	96.5	109.1	125.9	134.3	148.7	177.5	199.2	202.4
135°	90.6	94.6	98.7	99.7	110.9	125.8	133.2	145.2	169.4	187.5	190.3
137.5°	94.8	98.8	102.8	103.8	113.5	126.5	133.0	143.2	163.6	179.0	181.3
140°	98.3	101.9	105.7	106.6	115.1	126.7	132.4	141.2	158.9	172.1	174.2
142.5°	101.0	104.3	107.7	108.6	116.6	127.1	132.4	140.1	155.7	167.3	169.2
145°	105.1	108.0	111.0	111.8	118.4	127.1	131.5	137.8	150.5	160.0	161.5
147.5°	109.2	112.0	115.0	115.7	121.0	128.0	131.5	136.5	146.5	154.0	155.1
150°	111.8	114.4	117.1	117.7	122.3	128.4	131.5	135.7	144.2	150.5	151.4
152.5°	114.6	116.6	118.5	119.1	123.2	128.7	131.5	135.1	142.3	147.7	148.4
155°	118.7	120.1	121.7	122.0	125.1	129.3	131.5	134.3	140.1	144.4	144.9
157.5°	121.8	123.2	124.6	125.0	127.1	130.1	131.5	133.7	138.2	141.5	141.8
160°	123.8	124.9	126.0	126.3	128.0	130.3	131.5	133.4	137.2	140.1	140.2
162.5°	125.9	126.7	127.6	127.7	129.0	130.7	131.5	133.1	136.3	138.7	138.9
165°	128.1	128.8	129.6	129.8	130.3	131.1	131.5	132.6	135.0	136.7	136.8
167.5°	130.1	130.5	130.9	130.9	131.4	132.0	132.4	133.1	134.6	135.8	135.9
170°	131.5	131.8	132.2	132.3	132.3	132.4	132.4	133.1	134.6	135.8	135.8
172.5°	132.2	132.3	132.4	132.4	132.4	132.4	132.4	133.0	134.2	135.1	135.0
175°	133.2	133.2	133.2	133.2	132.9	132.6	132.4	132.7	133.5	134.1	134.1
177.5°	133.2	133.2	133.2	133.2	133.0	132.7	132.6	132.8	133.4	133.9	133.8
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	967.8	965.1	967.8	966.0	966.9	964.2	956.2	953.5	956.2	958.9	958.9
5°	979.4	977.6	979.4	979.4	978.5	976.7	967.8	966.0	967.8	968.7	966.9
7.5°	983.0	980.3	983.0	981.2	981.2	979.4	970.5	968.7	969.6	972.2	969.6
10°	983.0	980.3	983.0	982.1	981.2	979.4	970.5	966.9	966.9	969.6	966.9
12.5°	978.5	976.7	978.5	976.7	976.7	974.9	966.0	962.4	963.3	964.2	960.6
15°	971.3	968.7	971.3	969.6	970.5	967.8	958.0	954.4	954.4	956.2	949.8
17.5°	960.6	957.1	960.6	959.7	958.9	957.1	948.1	944.5	943.6	944.5	940.0
20°	948.1	945.4	948.1	947.2	947.2	943.6	934.7	930.2	930.2	930.2	925.7
22.5°	928.4	925.7	928.4	930.2	930.2	929.3	921.3	915.0	913.2	913.2	907.9
25°	906.1	903.4	906.1	906.1	905.2	906.1	903.4	899.9	897.2	894.5	889.1
27.5°	884.7	882.9	884.7	882.9	884.7	882.0	881.1	880.2	876.6	874.0	866.8
30°	863.3	861.5	863.3	861.5	859.7	857.9	853.4	851.6	855.2	853.4	841.8
32.5°	836.5	834.7	836.5	836.5	834.7	834.7	827.5	824.9	825.8	831.1	820.4
35°	808.8	806.1	808.8	807.9	808.8	806.1	801.7	800.8	797.2	803.4	795.4
37.5°	776.7	774.0	776.7	776.7	776.7	778.5	774.9	772.2	766.8	774.9	768.6
40°	743.6	740.1	743.6	742.7	743.6	745.4	743.6	741.9	736.5	742.7	737.4
42.5°	706.2	705.3	706.2	707.0	707.0	710.6	713.3	709.7	707.9	703.5	707.0
45°	666.0	664.2	666.0	667.8	668.7	670.4	678.5	678.5	675.8	668.7	674.0
47.5°	623.1	618.7	623.1	628.5	628.5	631.2	639.2	645.5	641.0	632.1	634.7
50°	577.6	578.5	577.6	581.2	581.2	591.0	597.3	603.5	608.0	597.3	584.8
52.5°	533.0	532.1	533.0	535.7	539.2	543.7	554.4	560.7	567.8	561.5	541.9
55°	488.4	490.1	488.4	489.2	491.0	493.7	509.8	516.0	529.4	521.4	500.8
57.5°	443.7	441.0	443.7	445.5	446.4	449.1	462.5	474.1	482.1	483.0	458.0
60°	391.9	388.4	391.9	400.0	401.8	403.6	416.1	426.8	433.9	436.6	410.7
62.5°	346.4	340.2	346.4	351.8	355.4	359.8	368.7	384.8	391.1	391.9	355.4
65°	298.1	295.5	298.1	308.8	309.7	315.1	325.0	336.6	350.0	348.2	295.5
67.5°	254.4	254.4	254.4	261.5	266.9	269.6	282.1	287.4	304.4	306.2	246.4
70°	214.2	213.3	214.2	219.6	223.2	229.4	241.0	247.3	260.6	265.1	199.9
72.5°	175.8	175.0	175.8	180.3	183.9	189.2	199.1	206.2	217.8	223.2	155.3
75°	141.9	140.1	141.9	145.5	144.6	151.7	159.8	166.9	177.6	181.2	115.1
77.5°	108.9	108.9	108.9	112.5	112.5	119.6	123.2	132.1	138.4	143.7	84.8
80°	81.2	80.3	81.2	82.1	82.1	85.7	91.9	98.2	103.5	103.5	58.0
82.5°	57.1	55.3	57.1	57.1	57.1	58.9	62.5	64.3	67.8	70.5	36.6
85°	35.7	35.7	35.7	36.6	35.7	37.5	38.4	40.2	40.2	38.4	22.3
87.5°	23.2	22.3	23.2	22.3	22.3	21.4	21.4	21.4	20.5	19.6	12.5
90°	3.4	3.4	3.4	3.4	3.4	4.6	6.1	6.8	5.8	3.9	2.5
92.5°	13.6	10.9	13.6	16.2	17.0	24.1	33.6	38.3	33.7	24.3	17.2
95°	47.5	39.3	47.5	55.6	57.7	75.7	99.8	111.8	94.4	59.7	33.7
97.5°	113.6	98.1	113.6	129.2	133.1	144.5	159.8	167.4	138.4	80.4	37.0
100°	163.8	145.2	163.8	182.3	186.9	186.1	185.0	184.4	152.3	87.9	39.7
102.5°	213.0	197.1	213.0	228.9	232.9	218.3	199.0	189.2	156.7	91.4	42.5
105°	275.9	267.3	275.9	284.4	286.5	254.0	210.5	188.7	157.1	94.0	46.6
107.5°	317.1	319.1	317.1	315.0	314.5	268.9	208.3	178.0	150.1	94.4	52.7
110°	332.7	341.6	332.7	323.8	321.6	270.7	203.0	169.1	144.0	93.7	56.1





TEST NUMBER: P933933

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	334.1	347.8	334.1	320.5	317.1	265.0	195.7	160.9	138.5	93.7	60.2
115°	325.3	344.2	325.3	306.3	301.5	251.5	184.6	151.2	132.4	94.6	66.3
117.5°	306.4	327.5	306.4	285.5	280.2	234.9	174.7	144.5	128.4	96.4	72.3
120°	291.4	311.7	291.4	270.9	265.8	224.5	169.3	141.7	127.1	97.7	75.8
122.5°	276.5	296.7	276.5	256.4	251.4	214.1	164.5	139.7	126.4	99.8	79.9
125°	255.6	274.1	255.6	237.0	232.3	200.8	158.5	137.5	125.9	102.7	85.2
127.5°	236.6	252.3	236.6	221.0	217.1	189.9	153.7	135.6	125.5	105.4	90.3
130°	225.5	239.9	225.5	211.0	207.4	183.3	151.0	134.9	125.8	107.5	93.7
132.5°	215.4	228.3	215.4	202.4	199.2	177.5	148.7	134.3	125.9	109.1	96.5
135°	201.6	212.7	201.6	190.3	187.5	169.4	145.2	133.2	125.8	110.9	99.7
137.5°	190.4	199.6	190.4	181.3	179.0	163.6	143.2	133.0	126.5	113.5	103.8
140°	182.7	191.3	182.7	174.2	172.1	158.9	141.2	132.4	126.7	115.1	106.6
142.5°	176.5	183.8	176.5	169.2	167.3	155.7	140.1	132.4	127.1	116.6	108.6
145°	167.0	172.5	167.0	161.5	160.0	150.5	137.8	131.5	127.1	118.4	111.8
147.5°	159.7	164.3	159.7	155.1	154.0	146.5	136.5	131.5	128.0	121.0	115.7
150°	155.1	158.9	155.1	151.4	150.5	144.2	135.7	131.5	128.4	122.3	117.7
152.5°	151.2	154.1	151.2	148.4	147.7	142.3	135.1	131.5	128.7	123.2	119.1
155°	146.7	148.6	146.7	144.9	144.4	140.1	134.3	131.5	129.3	125.1	122.0
157.5°	143.2	144.5	143.2	141.8	141.5	138.2	133.7	131.5	130.1	127.1	125.0
160°	141.0	141.7	141.0	140.2	140.1	137.2	133.4	131.5	130.3	128.0	126.3
162.5°	139.6	140.3	139.6	138.9	138.7	136.3	133.1	131.5	130.7	129.0	127.7
165°	137.6	138.4	137.6	136.8	136.7	135.0	132.6	131.5	131.1	130.3	129.8
167.5°	136.1	136.5	136.1	135.9	135.8	134.6	133.1	132.4	132.0	131.4	130.9
170°	135.8	135.8	135.8	135.8	135.8	134.6	133.1	132.4	132.4	132.3	132.3
172.5°	134.7	134.4	134.7	135.0	135.1	134.2	133.0	132.4	132.4	132.4	132.4
175°	134.1	134.1	134.1	134.1	134.1	133.5	132.7	132.4	132.6	132.9	133.2
177.5°	133.5	133.2	133.5	133.8	133.9	133.4	132.8	132.6	132.7	133.0	133.2
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P933933

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	957.1	951.6	951.6	942.7	939.1	936.4	932.0	918.6	915.0	911.5	916.8
5°	965.1	955.3	948.1	932.0	918.6	913.2	896.3	864.1	842.7	826.7	817.7
7.5°	966.9	954.4	940.9	915.9	883.8	869.5	817.7	758.8	742.7	728.5	719.5
10°	965.1	950.7	932.0	894.5	818.6	793.6	741.9	703.5	693.7	691.0	693.7
12.5°	958.9	945.4	919.5	857.0	750.8	733.8	703.5	681.2	679.4	683.8	707.9
15°	948.1	935.6	905.2	807.0	713.3	700.8	679.4	671.3	681.2	712.4	784.7
17.5°	937.3	923.1	885.6	757.9	684.7	675.8	660.6	676.7	732.0	774.0	798.1
20°	923.1	906.1	863.3	722.2	664.2	656.2	649.0	721.3	763.3	778.5	791.8
22.5°	906.1	888.2	832.9	697.2	642.8	636.5	641.0	746.3	763.3	774.0	785.6
25°	883.8	868.6	797.2	677.6	625.8	618.7	635.6	743.6	753.5	756.1	779.3
27.5°	863.3	843.6	759.7	659.7	605.3	602.6	640.1	732.0	739.2	741.9	766.8
30°	838.3	808.8	717.8	641.0	583.9	583.0	641.0	717.8	716.0	723.1	748.1
32.5°	812.4	757.0	670.4	617.8	563.3	562.4	634.7	696.3	694.5	704.4	723.1
35°	788.3	716.9	606.2	591.0	537.4	538.3	619.6	671.3	672.2	681.2	692.8
37.5°	763.3	682.1	535.7	561.5	512.5	512.5	599.0	648.1	646.3	649.0	665.1
40°	733.8	627.6	473.2	523.2	489.2	486.6	574.0	623.1	616.9	616.0	638.3
42.5°	702.6	567.8	426.8	472.3	462.5	458.9	543.7	592.8	581.2	583.9	612.4
45°	668.7	551.7	391.1	399.1	434.8	432.1	510.7	558.0	549.9	557.1	586.5
47.5°	634.7	519.6	379.5	331.3	405.3	404.4	474.1	524.1	519.6	526.7	558.0
50°	588.3	483.9	378.6	283.9	372.3	375.9	430.3	491.0	491.0	497.3	530.3
52.5°	528.5	440.2	343.7	257.1	333.9	344.6	391.9	462.5	464.3	470.5	500.0
55°	474.1	394.6	318.8	236.5	288.3	311.5	354.5	433.0	436.6	442.8	469.6
57.5°	424.1	328.6	313.3	212.4	246.4	268.7	321.4	404.4	406.2	411.6	437.5
60°	370.5	237.4	287.4	186.6	209.8	226.7	291.0	370.5	376.8	380.3	402.7
62.5°	309.7	172.3	260.6	168.7	191.9	195.5	266.0	338.4	346.4	349.1	362.5
65°	220.5	144.6	221.4	153.5	173.2	174.1	239.2	305.3	312.4	316.9	326.8
67.5°	149.1	117.8	168.7	139.2	158.9	159.8	213.3	266.9	276.7	280.3	286.5
70°	103.5	78.6	125.0	124.1	142.8	144.6	185.7	232.1	241.0	243.7	247.3
72.5°	75.9	63.4	103.5	111.6	125.9	127.6	157.1	192.8	201.7	204.4	206.2
75°	58.0	66.9	83.9	97.3	107.1	108.0	128.5	157.1	163.3	165.1	166.0
77.5°	46.4	62.5	61.6	78.6	87.5	85.7	100.9	121.4	126.8	126.8	126.8
80°	34.8	49.1	46.4	56.2	64.3	62.5	72.3	86.6	88.4	90.2	89.3
82.5°	25.9	31.2	31.2	35.7	42.8	41.1	48.2	56.2	56.2	56.2	58.0
85°	16.1	17.9	14.3	18.7	24.1	23.2	26.8	30.3	31.2	31.2	29.5
87.5°	9.8	8.0	4.5	7.1	10.7	10.7	12.5	13.4	12.5	12.5	12.5
90°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6
92.5°	15.7	9.6	3.6	9.6	15.7	17.2	24.3	33.7	38.3	33.6	24.1
95°	30.9	19.7	8.6	19.7	30.9	33.7	59.7	94.4	111.8	99.8	75.7
97.5°	34.5	24.6	14.8	24.6	34.5	37.0	80.4	138.4	167.4	159.8	144.5
100°	37.5	28.6	19.6	28.6	37.5	39.7	87.9	152.3	184.4	185.0	186.1
102.5°	40.4	32.0	23.7	32.0	40.4	42.5	91.4	156.7	189.2	199.0	218.3
105°	44.8	37.8	30.8	37.8	44.8	46.6	94.0	157.1	188.7	210.5	254.0
107.5°	51.1	44.5	37.9	44.5	51.1	52.7	94.4	150.1	178.0	208.3	268.9
110°	54.5	48.6	42.8	48.6	54.5	56.1	93.7	144.0	169.1	203.0	270.7



TEST NUMBER: P933933

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	58.7	53.1	47.5	53.1	58.7	60.2	93.7	138.5	160.9	195.7	265.0
115°	65.0	59.8	54.6	59.8	65.0	66.3	94.6	132.4	151.2	184.6	251.5
117.5°	71.1	66.4	61.7	66.4	71.1	72.3	96.4	128.4	144.5	174.7	234.9
120°	74.7	70.2	65.8	70.2	74.7	75.8	97.7	127.1	141.7	169.3	224.5
122.5°	78.7	74.3	69.8	74.3	78.7	79.9	99.8	126.4	139.7	164.5	214.1
125°	84.2	80.1	76.0	80.1	84.2	85.2	102.7	125.9	137.5	158.5	200.8
127.5°	89.3	85.2	81.0	85.2	89.3	90.3	105.4	125.5	135.6	153.7	189.9
130°	92.6	88.1	83.6	88.1	92.6	93.7	107.5	125.8	134.9	151.0	183.3
132.5°	95.4	91.0	86.5	91.0	95.4	96.5	109.1	125.9	134.3	148.7	177.5
135°	98.7	94.6	90.6	94.6	98.7	99.7	110.9	125.8	133.2	145.2	169.4
137.5°	102.8	98.8	94.8	98.8	102.8	103.8	113.5	126.5	133.0	143.2	163.6
140°	105.7	101.9	98.3	101.9	105.7	106.6	115.1	126.7	132.4	141.2	158.9
142.5°	107.7	104.3	101.0	104.3	107.7	108.6	116.6	127.1	132.4	140.1	155.7
145°	111.0	108.0	105.1	108.0	111.0	111.8	118.4	127.1	131.5	137.8	150.5
147.5°	115.0	112.0	109.2	112.0	115.0	115.7	121.0	128.0	131.5	136.5	146.5
150°	117.1	114.4	111.8	114.4	117.1	117.7	122.3	128.4	131.5	135.7	144.2
152.5°	118.5	116.6	114.6	116.6	118.5	119.1	123.2	128.7	131.5	135.1	142.3
155°	121.7	120.1	118.7	120.1	121.7	122.0	125.1	129.3	131.5	134.3	140.1
157.5°	124.6	123.2	121.8	123.2	124.6	125.0	127.1	130.1	131.5	133.7	138.2
160°	126.0	124.9	123.8	124.9	126.0	126.3	128.0	130.3	131.5	133.4	137.2
162.5°	127.6	126.7	125.9	126.7	127.6	127.7	129.0	130.7	131.5	133.1	136.3
165°	129.6	128.8	128.1	128.8	129.6	129.8	130.3	131.1	131.5	132.6	135.0
167.5°	130.9	130.5	130.1	130.5	130.9	130.9	131.4	132.0	132.4	133.1	134.6
170°	132.2	131.8	131.5	131.8	132.2	132.3	132.3	132.4	132.4	133.1	134.6
172.5°	132.4	132.3	132.2	132.3	132.4	132.4	132.4	132.4	132.4	133.0	134.2
175°	133.2	133.2	133.2	133.2	133.2	133.2	132.9	132.6	132.4	132.7	133.5
177.5°	133.2	133.2	133.2	133.2	133.2	133.2	133.0	132.7	132.6	132.8	133.4
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P933933

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	910.6	907.9	911.5	901.6	911.5	907.9	910.6	916.8	911.5	915.0	918.6
5°	799.0	794.5	780.2	768.6	780.2	794.5	799.0	817.7	826.7	842.7	864.1
7.5°	714.2	710.6	707.0	699.9	707.0	710.6	714.2	719.5	728.5	742.7	758.8
10°	695.4	696.3	701.7	700.8	701.7	696.3	695.4	693.7	691.0	693.7	703.5
12.5°	743.6	751.7	781.1	779.3	781.1	751.7	743.6	707.9	683.8	679.4	681.2
15°	799.0	801.7	807.9	808.8	807.9	801.7	799.0	784.7	712.4	681.2	671.3
17.5°	804.3	805.2	809.7	809.7	809.7	805.2	804.3	798.1	774.0	732.0	676.7
20°	799.9	801.7	810.6	812.4	810.6	801.7	799.9	791.8	778.5	763.3	721.3
22.5°	798.1	801.7	808.8	807.9	808.8	801.7	798.1	785.6	774.0	763.3	746.3
25°	789.2	789.2	790.1	791.0	790.1	789.2	789.2	779.3	756.1	753.5	743.6
27.5°	770.4	772.2	777.6	776.7	777.6	772.2	770.4	766.8	741.9	739.2	732.0
30°	753.5	751.7	747.2	743.6	747.2	751.7	753.5	748.1	723.1	716.0	717.8
32.5°	724.9	720.4	716.0	713.3	716.0	720.4	724.9	723.1	704.4	694.5	696.3
35°	691.0	691.9	691.0	688.3	691.0	691.9	691.0	692.8	681.2	672.2	671.3
37.5°	666.9	668.7	667.8	664.2	667.8	668.7	666.9	665.1	649.0	646.3	648.1
40°	641.9	642.8	641.9	639.2	641.9	642.8	641.9	638.3	616.0	616.9	623.1
42.5°	617.8	616.9	614.2	612.4	614.2	616.9	617.8	612.4	583.9	581.2	592.8
45°	590.1	591.0	585.6	583.0	585.6	591.0	590.1	586.5	557.1	549.9	558.0
47.5°	562.4	562.4	558.0	555.3	558.0	562.4	562.4	558.0	526.7	519.6	524.1
50°	533.0	532.1	525.8	524.9	525.8	532.1	533.0	530.3	497.3	491.0	491.0
52.5°	499.1	499.1	500.0	501.7	500.0	499.1	499.1	500.0	470.5	464.3	462.5
55°	469.6	470.5	476.7	478.5	476.7	470.5	469.6	469.6	442.8	436.6	433.0
57.5°	439.3	439.3	443.7	443.7	443.7	439.3	439.3	437.5	411.6	406.2	404.4
60°	404.4	406.2	409.8	408.9	409.8	406.2	404.4	402.7	380.3	376.8	370.5
62.5°	367.8	369.6	370.5	368.7	370.5	369.6	367.8	362.5	349.1	346.4	338.4
65°	329.5	331.3	332.1	330.4	332.1	331.3	329.5	326.8	316.9	312.4	305.3
67.5°	290.1	289.2	288.3	291.9	288.3	289.2	290.1	286.5	280.3	276.7	266.9
70°	249.9	249.9	249.0	250.8	249.0	249.9	249.9	247.3	243.7	241.0	232.1
72.5°	207.1	206.2	209.8	207.1	209.8	206.2	207.1	206.2	204.4	201.7	192.8
75°	165.1	166.9	165.1	167.8	165.1	166.9	165.1	166.0	165.1	163.3	157.1
77.5°	125.9	127.6	125.9	125.9	125.9	127.6	125.9	126.8	126.8	126.8	121.4
80°	89.3	88.4	88.4	87.5	88.4	88.4	89.3	89.3	90.2	88.4	86.6
82.5°	57.1	56.2	56.2	58.0	56.2	56.2	57.1	58.0	56.2	56.2	56.2
85°	31.2	32.1	30.3	30.3	30.3	32.1	31.2	29.5	31.2	31.2	30.3
87.5°	11.6	10.7	10.7	10.7	10.7	10.7	11.6	12.5	12.5	12.5	13.4
90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	6.1	6.8	5.8
92.5°	17.0	16.2	13.6	10.9	13.6	16.2	17.0	24.1	33.6	38.3	33.7
95°	57.7	55.6	47.5	39.3	47.5	55.6	57.7	75.7	99.8	111.8	94.4
97.5°	133.1	129.2	113.6	98.1	113.6	129.2	133.1	144.5	159.8	167.4	138.4
100°	186.9	182.3	163.8	145.2	163.8	182.3	186.9	186.1	185.0	184.4	152.3
102.5°	232.9	228.9	213.0	197.1	213.0	228.9	232.9	218.3	199.0	189.2	156.7
105°	286.5	284.4	275.9	267.3	275.9	284.4	286.5	254.0	210.5	188.7	157.1
107.5°	314.5	315.0	317.1	319.1	317.1	315.0	314.5	268.9	208.3	178.0	150.1
110°	321.6	323.8	332.7	341.6	332.7	323.8	321.6	270.7	203.0	169.1	144.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	317.1	320.5	334.1	347.8	334.1	320.5	317.1	265.0	195.7	160.9	138.5
115°	301.5	306.3	325.3	344.2	325.3	306.3	301.5	251.5	184.6	151.2	132.4
117.5°	280.2	285.5	306.4	327.5	306.4	285.5	280.2	234.9	174.7	144.5	128.4
120°	265.8	270.9	291.4	311.7	291.4	270.9	265.8	224.5	169.3	141.7	127.1
122.5°	251.4	256.4	276.5	296.7	276.5	256.4	251.4	214.1	164.5	139.7	126.4
125°	232.3	237.0	255.6	274.1	255.6	237.0	232.3	200.8	158.5	137.5	125.9
127.5°	217.1	221.0	236.6	252.3	236.6	221.0	217.1	189.9	153.7	135.6	125.5
130°	207.4	211.0	225.5	239.9	225.5	211.0	207.4	183.3	151.0	134.9	125.8
132.5°	199.2	202.4	215.4	228.3	215.4	202.4	199.2	177.5	148.7	134.3	125.9
135°	187.5	190.3	201.6	212.7	201.6	190.3	187.5	169.4	145.2	133.2	125.8
137.5°	179.0	181.3	190.4	199.6	190.4	181.3	179.0	163.6	143.2	133.0	126.5
140°	172.1	174.2	182.7	191.3	182.7	174.2	172.1	158.9	141.2	132.4	126.7
142.5°	167.3	169.2	176.5	183.8	176.5	169.2	167.3	155.7	140.1	132.4	127.1
145°	160.0	161.5	167.0	172.5	167.0	161.5	160.0	150.5	137.8	131.5	127.1
147.5°	154.0	155.1	159.7	164.3	159.7	155.1	154.0	146.5	136.5	131.5	128.0
150°	150.5	151.4	155.1	158.9	155.1	151.4	150.5	144.2	135.7	131.5	128.4
152.5°	147.7	148.4	151.2	154.1	151.2	148.4	147.7	142.3	135.1	131.5	128.7
155°	144.4	144.9	146.7	148.6	146.7	144.9	144.4	140.1	134.3	131.5	129.3
157.5°	141.5	141.8	143.2	144.5	143.2	141.8	141.5	138.2	133.7	131.5	130.1
160°	140.1	140.2	141.0	141.7	141.0	140.2	140.1	137.2	133.4	131.5	130.3
162.5°	138.7	138.9	139.6	140.3	139.6	138.9	138.7	136.3	133.1	131.5	130.7
165°	136.7	136.8	137.6	138.4	137.6	136.8	136.7	135.0	132.6	131.5	131.1
167.5°	135.8	135.9	136.1	136.5	136.1	135.9	135.8	134.6	133.1	132.4	132.0
170°	135.8	135.8	135.8	135.8	135.8	135.8	135.8	134.6	133.1	132.4	132.4
172.5°	135.1	135.0	134.7	134.4	134.7	135.0	135.1	134.2	133.0	132.4	132.4
175°	134.1	134.1	134.1	134.1	134.1	134.1	134.1	133.5	132.7	132.4	132.6
177.5°	133.9	133.8	133.5	133.2	133.5	133.8	133.9	133.4	132.8	132.6	132.7
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	943.6	943.6	943.6	943.6	943.6
2.5°	932.0	936.4	939.1	942.7	951.6
5°	896.3	913.2	918.6	932.0	948.1
7.5°	817.7	869.5	883.8	915.9	940.9
10°	741.9	793.6	818.6	894.5	932.0
12.5°	703.5	733.8	750.8	857.0	919.5
15°	679.4	700.8	713.3	807.0	905.2
17.5°	660.6	675.8	684.7	757.9	885.6
20°	649.0	656.2	664.2	722.2	863.3
22.5°	641.0	636.5	642.8	697.2	832.9
25°	635.6	618.7	625.8	677.6	797.2
27.5°	640.1	602.6	605.3	659.7	759.7
30°	641.0	583.0	583.9	641.0	717.8
32.5°	634.7	562.4	563.3	617.8	670.4
35°	619.6	538.3	537.4	591.0	606.2
37.5°	599.0	512.5	512.5	561.5	535.7
40°	574.0	486.6	489.2	523.2	473.2
42.5°	543.7	458.9	462.5	472.3	426.8
45°	510.7	432.1	434.8	399.1	391.1
47.5°	474.1	404.4	405.3	331.3	379.5
50°	430.3	375.9	372.3	283.9	378.6
52.5°	391.9	344.6	333.9	257.1	343.7
55°	354.5	311.5	288.3	236.5	318.8
57.5°	321.4	268.7	246.4	212.4	313.3
60°	291.0	226.7	209.8	186.6	287.4
62.5°	266.0	195.5	191.9	168.7	260.6
65°	239.2	174.1	173.2	153.5	221.4
67.5°	213.3	159.8	158.9	139.2	168.7
70°	185.7	144.6	142.8	124.1	125.0
72.5°	157.1	127.6	125.9	111.6	103.5
75°	128.5	108.0	107.1	97.3	83.9
77.5°	100.9	85.7	87.5	78.6	61.6
80°	72.3	62.5	64.3	56.2	46.4
82.5°	48.2	41.1	42.8	35.7	31.2
85°	26.8	23.2	24.1	18.7	14.3
87.5°	12.5	10.7	10.7	7.1	4.5
90°	3.9	2.5	2.3	1.6	0.9
92.5°	24.3	17.2	15.7	9.6	3.6
95°	59.7	33.7	30.9	19.7	8.6
97.5°	80.4	37.0	34.5	24.6	14.8
100°	87.9	39.7	37.5	28.6	19.6
102.5°	91.4	42.5	40.4	32.0	23.7
105°	94.0	46.6	44.8	37.8	30.8
107.5°	94.4	52.7	51.1	44.5	37.9
110°	93.7	56.1	54.5	48.6	42.8



TEST NUMBER: P933933

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	93.7	60.2	58.7	53.1	47.5
115°	94.6	66.3	65.0	59.8	54.6
117.5°	96.4	72.3	71.1	66.4	61.7
120°	97.7	75.8	74.7	70.2	65.8
122.5°	99.8	79.9	78.7	74.3	69.8
125°	102.7	85.2	84.2	80.1	76.0
127.5°	105.4	90.3	89.3	85.2	81.0
130°	107.5	93.7	92.6	88.1	83.6
132.5°	109.1	96.5	95.4	91.0	86.5
135°	110.9	99.7	98.7	94.6	90.6
137.5°	113.5	103.8	102.8	98.8	94.8
140°	115.1	106.6	105.7	101.9	98.3
142.5°	116.6	108.6	107.7	104.3	101.0
145°	118.4	111.8	111.0	108.0	105.1
147.5°	121.0	115.7	115.0	112.0	109.2
150°	122.3	117.7	117.1	114.4	111.8
152.5°	123.2	119.1	118.5	116.6	114.6
155°	125.1	122.0	121.7	120.1	118.7
157.5°	127.1	125.0	124.6	123.2	121.8
160°	128.0	126.3	126.0	124.9	123.8
162.5°	129.0	127.7	127.6	126.7	125.9
165°	130.3	129.8	129.6	128.8	128.1
167.5°	131.4	130.9	130.9	130.5	130.1
170°	132.3	132.3	132.2	131.8	131.5
172.5°	132.4	132.4	132.4	132.3	132.2
175°	132.9	133.2	133.2	133.2	133.2
177.5°	133.0	133.2	133.2	133.2	133.2
180°	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P933933

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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	14.30	15.42	15.02	16.17	17.05	17.09	18.22	17.82	18.96	19.85
	3H	14.79	15.81	15.53	16.56	17.47	18.45	19.46	19.18	20.21	21.13
	4H	15.00	15.95	15.75	16.71	17.64	18.90	19.85	19.65	20.61	21.54
	6H	15.13	16.01	15.90	16.78	17.72	19.19	20.07	19.96	20.84	21.78
	8H	15.14	15.98	15.92	16.77	17.71	19.27	20.11	20.04	20.90	21.84
	12H	15.12	15.92	15.90	16.70	17.67	19.31	20.11	20.09	20.89	21.86
4H	2H	15.35	16.31	16.11	17.07	18.00	17.54	18.49	18.29	19.25	20.18
	3H	16.41	17.20	17.17	18.00	18.94	19.06	19.85	19.83	20.65	21.59
	4H	16.69	17.41	17.48	18.21	19.18	19.59	20.31	20.37	21.11	22.08
	6H	16.83	17.46	17.63	18.28	19.26	19.96	20.59	20.76	21.41	22.39
	8H	16.84	17.43	17.65	18.25	19.24	20.07	20.65	20.88	21.47	22.46
	12H	16.82	17.35	17.65	18.19	19.19	20.13	20.66	20.96	21.50	22.50
8H	4H	17.16	17.75	17.97	18.56	19.56	19.74	20.32	20.54	21.14	22.13
	6H	17.43	17.92	18.27	18.78	19.77	20.18	20.66	21.01	21.52	22.51
	8H	17.48	17.91	18.33	18.77	19.78	20.32	20.76	21.17	21.61	22.62
	12H	17.48	17.86	18.32	18.70	19.77	20.43	20.81	21.28	21.66	22.72
12H	4H	17.18	17.71	18.01	18.54	19.54	19.71	20.24	20.54	21.08	22.08
	6H	17.50	17.93	18.34	18.78	19.79	20.17	20.61	21.02	21.46	22.47
	8H	17.57	17.95	18.42	18.80	19.87	20.34	20.72	21.19	21.57	22.64