

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: P934631

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

**Test Information**

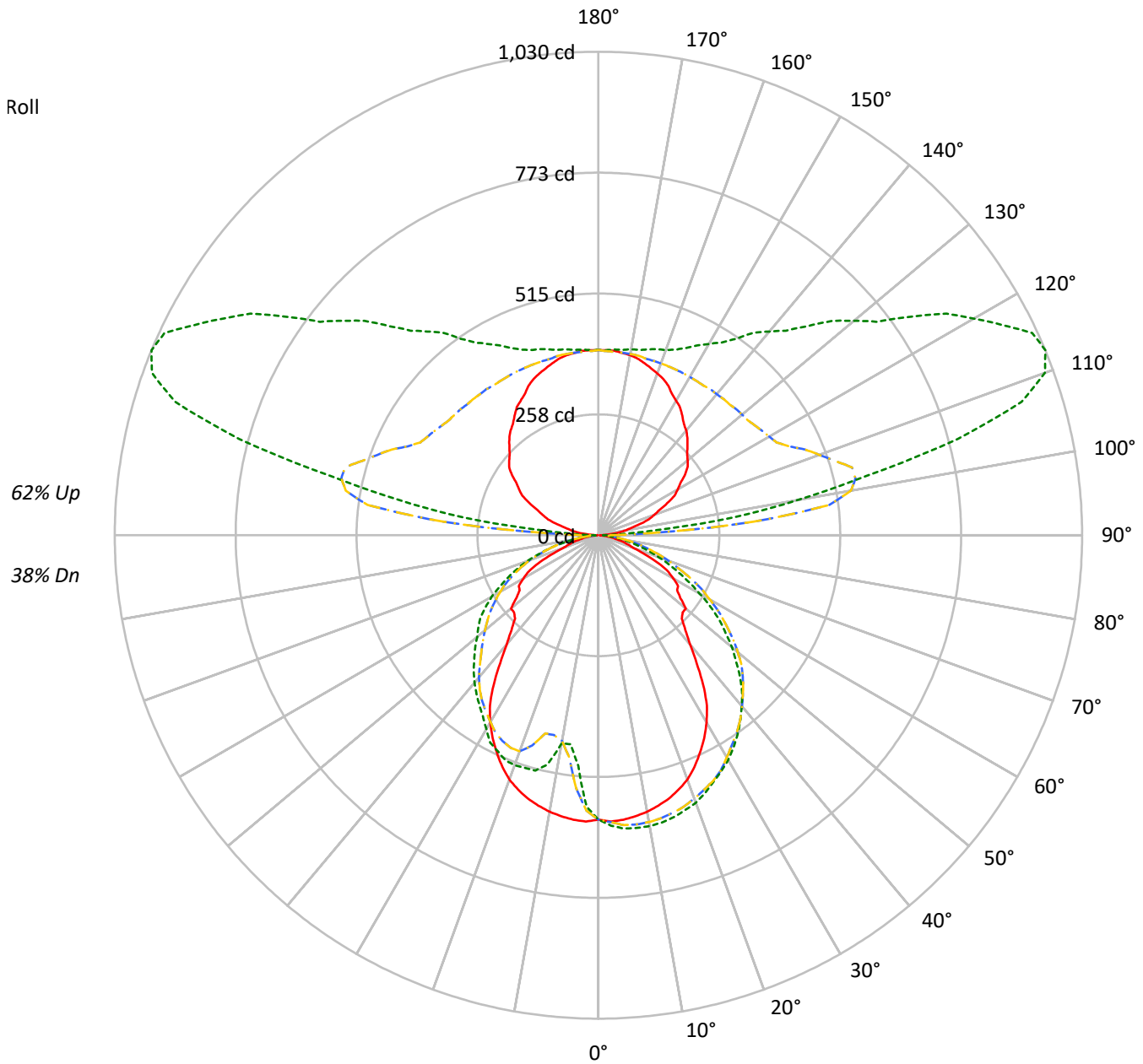
Test Method: LM-79-2019  
Report Number: P934631  
REPORT IS A COMBINATION OF REPORTS P933706 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4128.9 lumens  
Efficiency: N/A  
Efficacy: 120.0 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-Indirect  
  
Input Watts (W): 34.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-2700K

### 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				
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38			38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32			32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27			27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23			23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20			20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17			17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15			15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13			13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12			12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11			11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10			10

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

	0°	90°	180°	270°
0°	5619	5619	5619	5619
5°	5654	5672	5654	4459
10°	5611	5587	5611	3994
15°	5542	5465	5542	4564
20°	5420	5322	5420	4574
25°	5177	5113	5177	4476
30°	4864	4940	4864	4264
35°	4331	4720	4331	4030
40°	3602	4462	3602	3854
45°	3212	4159	3212	3649
50°	3405	3798	3405	3446
55°	3194	3409	3194	3329
60°	3282	2894	3282	3049
65°	2959	2393	2959	2675
70°	2036	1907	2036	2243
75°	1764	1409	1764	1688
80°	1395	933	1395	1014
85°	754	493	754	420

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4932 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	1.3
10°-20°	155.2	3.8
20°-30°	239.9	5.8
30°-40°	286.4	6.9
40°-50°	288.0	7.0
50°-60°	250.6	6.1
60°-70°	177.7	4.3
70°-80°	94.0	2.3
80°-90°	24.9	0.6
90°-100°	192.3	4.7
100°-110°	505.6	12.2
110°-120°	524.2	12.7
120°-130°	420.5	10.2
130°-140°	329.9	8.0
140°-150°	253.2	6.1
150°-160°	182.4	4.4
160°-170°	111.6	2.7
170°-180°	37.7	0.9
0°-30°	449.7	10.9
0°-40°	736.1	17.8
0°-60°	1274.8	30.9
0°-90°	1571.4	38.1
90°-120°	1222.1	29.6
90°-150°	2225.8	53.9
90°-180°	2557.0	61.9
0°-180°	4128.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	606	606	606	606	606	
5°	608	627	608	493	608	58
15°	581	622	581	519	581	163
25°	512	580	512	508	512	235
35°	389	517	389	442	389	241
45°	251	426	251	374	251	201
55°	204	314	204	307	204	188
65°	142	190	142	212	142	136
75°	54	90	54	108	54	57
85°	9	23	9	20	9	12
90°	3	10	3	10	3	3
95°	26	116	26	116	26	28
105°	91	792	91	792	91	97
115°	162	1019	162	1019	162	160
125°	225	812	225	812	225	200
135°	268	630	268	630	268	208
145°	311	511	311	511	311	195
155°	352	440	352	440	352	162
165°	379	410	379	410	379	107
175°	394	397	394	397	394	37
180°	394	394	394	394	394	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	610.6	610.6	614.0	615.2	615.2	613.5	611.8	613.5	618.6	620.4	619.8
5°	608.3	612.9	619.2	620.4	621.5	621.0	619.8	621.0	626.7	627.8	628.4
7.5°	603.8	612.3	620.4	622.1	623.8	622.1	621.5	622.7	628.4	629.5	629.5
10°	598.1	610.0	619.2	620.4	622.1	620.4	620.4	622.7	628.4	629.5	630.1
12.5°	590.0	606.6	615.2	616.3	618.6	618.0	617.5	619.8	625.6	626.7	626.7
15°	580.8	600.3	608.3	609.5	613.5	612.3	612.3	614.6	621.0	622.7	622.1
17.5°	568.3	592.3	601.5	603.2	606.1	605.5	606.1	608.3	614.0	615.2	615.8
20°	553.9	581.4	592.3	594.0	596.9	596.9	596.9	599.8	605.5	607.8	607.8
22.5°	534.4	570.0	581.4	582.6	586.0	586.0	587.1	591.1	596.3	596.9	596.9
25°	511.5	557.3	567.1	570.6	574.0	575.7	577.4	579.7	581.4	580.8	581.4
27.5°	487.5	541.3	553.9	556.2	560.8	562.5	564.8	565.3	565.9	567.7	566.5
30°	460.5	519.0	537.8	540.2	547.6	548.8	546.5	547.6	550.5	551.6	552.8
32.5°	430.2	485.7	521.3	526.4	533.3	529.9	529.3	531.0	535.6	535.6	536.7
35°	389.0	459.9	505.8	510.4	515.6	511.5	513.8	514.4	517.3	519.0	518.4
37.5°	343.7	437.7	489.8	493.2	497.2	492.1	495.5	497.2	499.5	498.4	498.4
40°	303.6	402.7	470.9	473.2	476.6	472.6	476.0	477.2	478.3	477.2	476.6
42.5°	273.8	364.3	450.8	453.7	451.4	454.2	455.4	457.7	455.9	453.7	453.7
45°	250.9	354.0	429.0	432.4	429.0	433.6	435.3	435.3	430.2	429.0	428.4
47.5°	243.4	333.4	407.2	407.2	405.5	411.3	414.2	410.2	405.0	403.2	403.2
50°	242.9	310.5	377.5	375.2	383.2	390.1	387.3	383.2	379.2	372.9	372.9
52.5°	220.5	282.4	339.1	347.7	360.3	364.3	359.8	355.7	348.8	346.0	343.7
55°	204.5	253.2	304.2	321.3	334.6	339.7	331.1	327.0	316.8	315.1	313.9
57.5°	201.1	210.8	272.1	293.8	309.9	309.4	304.2	296.7	288.1	286.4	285.9
60°	184.5	152.4	237.7	263.5	280.1	278.4	273.8	266.9	258.9	257.8	256.7
62.5°	167.2	110.5	198.8	228.0	251.5	250.9	246.9	236.6	230.9	228.0	225.7
65°	142.0	92.8	141.5	189.6	223.4	224.6	215.9	208.5	202.2	198.8	198.2
67.5°	108.3	75.6	95.7	158.1	196.4	195.3	184.5	181.0	173.0	171.3	167.8
70°	80.2	50.4	66.5	128.3	170.1	167.2	158.7	154.7	147.3	143.2	140.9
72.5°	66.5	40.7	48.7	99.7	143.2	139.7	132.3	127.8	121.5	118.0	115.7
75°	53.8	43.0	37.2	73.9	116.2	114.0	107.1	102.5	97.4	92.8	93.4
77.5°	39.5	40.1	29.8	54.4	92.2	88.8	84.8	79.1	76.8	72.2	72.2
80°	29.8	31.5	22.4	37.2	66.5	66.5	63.0	59.0	55.0	52.7	52.7
82.5°	20.1	20.1	16.6	23.5	45.3	43.6	41.3	40.1	37.8	36.6	36.6
85°	9.1	11.4	10.3	14.3	24.6	25.8	25.8	24.6	24.1	22.9	23.5
87.5°	2.9	5.1	6.3	8.0	12.6	13.2	13.8	13.8	13.8	14.3	14.3
90°	2.6	4.8	6.9	7.4	11.7	17.3	20.2	17.9	13.4	10.1	10.1
92.5°	10.6	28.6	46.5	51.1	71.8	99.5	113.3	99.3	71.3	50.3	48.3
95°	25.5	58.4	91.4	99.6	176.8	279.7	331.2	295.5	224.2	170.7	164.7
97.5°	44.0	73.0	102.1	109.3	238.1	409.8	495.7	473.1	428.1	394.3	382.7
100°	58.3	84.6	111.0	117.5	260.4	451.0	546.2	547.8	551.2	553.6	539.9
102.5°	70.5	95.1	119.6	125.7	270.7	464.0	560.6	589.3	646.7	689.7	677.9
105°	91.1	111.9	132.7	137.9	278.3	465.4	558.9	623.3	752.1	848.6	842.3
107.5°	112.2	131.7	151.1	156.0	279.7	444.7	527.2	616.9	796.5	931.2	932.7
110°	126.6	144.1	161.7	166.0	277.6	426.3	500.7	601.0	801.8	952.4	958.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	140.6	157.3	174.0	178.2	277.7	410.3	476.6	579.4	784.8	938.9	949.0
115°	161.8	177.1	192.6	196.4	280.2	391.9	447.7	546.7	744.6	893.1	907.1
117.5°	182.7	196.7	210.7	214.2	285.4	380.3	427.8	517.2	695.8	829.8	845.3
120°	194.9	208.1	221.2	224.6	289.6	376.5	419.9	501.5	664.8	787.2	802.3
122.5°	206.8	220.1	233.3	236.7	295.7	374.4	413.8	487.3	634.3	744.5	759.5
125°	225.1	237.2	249.3	252.3	304.0	372.8	407.2	469.7	594.6	688.2	701.9
127.5°	239.9	252.1	264.4	267.4	312.2	371.9	401.7	455.3	562.5	642.9	654.5
130°	247.9	261.0	274.2	277.5	318.2	372.4	399.6	447.3	542.7	614.3	625.0
132.5°	256.1	269.2	282.4	285.7	323.0	372.8	397.7	440.4	525.9	589.9	599.5
135°	268.2	280.2	292.2	295.2	328.3	372.5	394.5	430.3	501.9	555.5	563.8
137.5°	280.7	292.5	304.4	307.4	336.3	374.8	394.0	424.2	484.7	530.1	536.8
140°	291.0	301.9	312.9	315.6	341.1	375.1	392.1	418.3	470.5	509.7	516.0
142.5°	298.9	309.0	319.1	321.7	345.2	376.5	392.1	415.1	461.0	495.4	500.9
145°	311.1	320.0	328.8	331.0	350.4	376.5	389.5	408.3	445.8	474.0	478.1
147.5°	323.3	331.8	340.5	342.6	358.2	379.1	389.5	404.3	433.8	455.9	459.4
150°	331.2	339.0	346.8	348.7	362.3	380.4	389.5	402.0	426.9	445.6	448.3
152.5°	339.4	345.3	351.2	352.7	365.0	381.3	389.5	400.2	421.4	437.4	439.4
155°	351.6	356.0	360.3	361.4	370.8	383.2	389.5	397.9	414.8	427.6	428.9
157.5°	360.6	364.9	369.2	370.2	376.6	385.2	389.5	396.1	409.2	419.1	420.1
160°	366.7	370.0	373.3	374.1	379.2	386.1	389.5	395.1	406.5	414.9	415.4
162.5°	372.8	375.3	377.8	378.4	382.1	387.0	389.5	394.3	403.7	410.9	411.4
165°	379.4	381.6	383.8	384.4	386.2	388.4	389.5	392.9	399.7	404.9	405.5
167.5°	385.5	386.5	387.6	387.9	389.3	391.2	392.1	394.4	398.9	402.2	402.5
170°	389.5	390.5	391.6	391.9	392.0	392.0	392.1	394.4	398.9	402.2	402.2
172.5°	391.6	391.9	392.0	392.1	392.1	392.1	392.1	393.9	397.4	400.1	399.9
175°	394.5	394.5	394.5	394.5	393.8	392.6	392.1	393.2	395.5	397.2	397.2
177.5°	394.5	394.5	394.5	394.5	393.9	393.1	392.6	393.5	395.3	396.7	396.4
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	621.0	619.2	621.0	619.8	620.4	618.6	613.5	611.8	613.5	615.2	615.2
5°	628.4	627.3	628.4	628.4	627.8	626.7	621.0	619.8	621.0	621.5	620.4
7.5°	630.7	629.0	630.7	629.5	629.5	628.4	622.7	621.5	622.1	623.8	622.1
10°	630.7	629.0	630.7	630.1	629.5	628.4	622.7	620.4	620.4	622.1	620.4
12.5°	627.8	626.7	627.8	626.7	626.7	625.6	619.8	617.5	618.0	618.6	616.3
15°	623.3	621.5	623.3	622.1	622.7	621.0	614.6	612.3	612.3	613.5	609.5
17.5°	616.3	614.0	616.3	615.8	615.2	614.0	608.3	606.1	605.5	606.1	603.2
20°	608.3	606.6	608.3	607.8	607.8	605.5	599.8	596.9	596.9	596.9	594.0
22.5°	595.8	594.0	595.8	596.9	596.9	596.3	591.1	587.1	586.0	586.0	582.6
25°	581.4	579.7	581.4	581.4	580.8	581.4	579.7	577.4	575.7	574.0	570.6
27.5°	567.7	566.5	567.7	566.5	567.7	565.9	565.3	564.8	562.5	560.8	556.2
30°	553.9	552.8	553.9	552.8	551.6	550.5	547.6	546.5	548.8	547.6	540.2
32.5°	536.7	535.6	536.7	536.7	535.6	535.6	531.0	529.3	529.9	533.3	526.4
35°	519.0	517.3	519.0	518.4	519.0	517.3	514.4	513.8	511.5	515.6	510.4
37.5°	498.4	496.7	498.4	498.4	498.4	499.5	497.2	495.5	492.1	497.2	493.2
40°	477.2	474.9	477.2	476.6	477.2	478.3	477.2	476.0	472.6	476.6	473.2
42.5°	453.1	452.5	453.1	453.7	453.7	455.9	457.7	455.4	454.2	451.4	453.7
45°	427.3	426.2	427.3	428.4	429.0	430.2	435.3	435.3	433.6	429.0	432.4
47.5°	399.8	397.0	399.8	403.2	403.2	405.0	410.2	414.2	411.3	405.5	407.2
50°	370.6	371.2	370.6	372.9	372.9	379.2	383.2	387.3	390.1	383.2	375.2
52.5°	342.0	341.4	342.0	343.7	346.0	348.8	355.7	359.8	364.3	360.3	347.7
55°	313.3	314.5	313.3	313.9	315.1	316.8	327.0	331.1	339.7	334.6	321.3
57.5°	284.7	283.0	284.7	285.9	286.4	288.1	296.7	304.2	309.4	309.9	293.8
60°	251.5	249.1	251.5	256.7	257.8	258.9	266.9	273.8	278.4	280.1	263.5
62.5°	222.2	218.2	222.2	225.7	228.0	230.9	236.6	246.9	250.9	251.5	228.0
65°	191.3	189.6	191.3	198.2	198.8	202.2	208.5	215.9	224.6	223.4	189.6
67.5°	163.2	163.2	163.2	167.8	171.3	173.0	181.0	184.5	195.3	196.4	158.1
70°	137.5	136.9	137.5	140.9	143.2	147.3	154.7	158.7	167.2	170.1	128.3
72.5°	112.8	112.2	112.8	115.7	118.0	121.5	127.8	132.3	139.7	143.2	99.7
75°	91.1	89.9	91.1	93.4	92.8	97.4	102.5	107.1	114.0	116.2	73.9
77.5°	69.9	69.9	69.9	72.2	72.2	76.8	79.1	84.8	88.8	92.2	54.4
80°	52.1	51.6	52.1	52.7	52.7	55.0	59.0	63.0	66.5	66.5	37.2
82.5°	36.6	35.5	36.6	36.6	36.6	37.8	40.1	41.3	43.6	45.3	23.5
85°	22.9	22.9	22.9	23.5	22.9	24.1	24.6	25.8	25.8	24.6	14.3
87.5°	14.9	14.3	14.9	14.3	14.3	13.8	13.8	13.8	13.2	12.6	8.0
90°	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.2	17.3	11.7	7.4
92.5°	40.3	32.3	40.3	48.3	50.3	71.3	99.3	113.3	99.5	71.8	51.1
95°	140.5	116.2	140.5	164.7	170.7	224.2	295.5	331.2	279.7	176.8	99.6
97.5°	336.6	290.5	336.6	382.7	394.3	428.1	473.1	495.7	409.8	238.1	109.3
100°	485.0	430.0	485.0	539.9	553.6	551.2	547.8	546.2	451.0	260.4	117.5
102.5°	630.9	583.8	630.9	677.9	689.7	646.7	589.3	560.6	464.0	270.7	125.7
105°	817.0	791.7	817.0	842.3	848.6	752.1	623.3	558.9	465.4	278.3	137.9
107.5°	938.9	945.0	938.9	932.7	931.2	796.5	616.9	527.2	444.7	279.7	156.0
110°	985.3	1011.7	985.3	958.9	952.4	801.8	601.0	500.7	426.3	277.6	166.0





TEST NUMBER: P934631

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	989.5	1030.0	989.5	949.0	938.9	784.8	579.4	476.6	410.3	277.7	178.2
115°	963.3	1019.4	963.3	907.1	893.1	744.6	546.7	447.7	391.9	280.2	196.4
117.5°	907.6	969.9	907.6	845.3	829.8	695.8	517.2	427.8	380.3	285.4	214.2
120°	862.8	923.2	862.8	802.3	787.2	664.8	501.5	419.9	376.5	289.6	224.6
122.5°	819.1	878.8	819.1	759.5	744.5	634.3	487.3	413.8	374.4	295.7	236.7
125°	756.8	811.8	756.8	701.9	688.2	594.6	469.7	407.2	372.8	304.0	252.3
127.5°	700.8	747.2	700.8	654.5	642.9	562.5	455.3	401.7	371.9	312.2	267.4
130°	667.8	710.6	667.8	625.0	614.3	542.7	447.3	399.6	372.4	318.2	277.5
132.5°	637.9	676.2	637.9	599.5	589.9	525.9	440.4	397.7	372.8	323.0	285.7
135°	596.9	629.9	596.9	563.8	555.5	501.9	430.3	394.5	372.5	328.3	295.2
137.5°	563.9	591.0	563.9	536.8	530.1	484.7	424.2	394.0	374.8	336.3	307.4
140°	541.3	566.6	541.3	516.0	509.7	470.5	418.3	392.1	375.1	341.1	315.6
142.5°	522.6	544.3	522.6	500.9	495.4	461.0	415.1	392.1	376.5	345.2	321.7
145°	494.5	511.0	494.5	478.1	474.0	445.8	408.3	389.5	376.5	350.4	331.0
147.5°	473.0	486.7	473.0	459.4	455.9	433.8	404.3	389.5	379.1	358.2	342.6
150°	459.4	470.5	459.4	448.3	445.6	426.9	402.0	389.5	380.4	362.3	348.7
152.5°	447.8	456.2	447.8	439.4	437.4	421.4	400.2	389.5	381.3	365.0	352.7
155°	434.5	440.0	434.5	428.9	427.6	414.8	397.9	389.5	383.2	370.8	361.4
157.5°	424.0	427.8	424.0	420.1	419.1	409.2	396.1	389.5	385.2	376.6	370.2
160°	417.7	419.9	417.7	415.4	414.9	406.5	395.1	389.5	386.1	379.2	374.1
162.5°	413.6	415.7	413.6	411.4	410.9	403.7	394.3	389.5	387.0	382.1	378.4
165°	407.7	409.9	407.7	405.5	404.9	399.7	392.9	389.5	388.4	386.2	384.4
167.5°	403.4	404.3	403.4	402.5	402.2	398.9	394.4	392.1	391.2	389.3	387.9
170°	402.2	402.2	402.2	402.2	402.2	398.9	394.4	392.1	392.0	392.0	391.9
172.5°	399.0	398.2	399.0	399.9	400.1	397.4	393.9	392.1	392.1	392.1	392.1
175°	397.2	397.2	397.2	397.2	397.2	395.5	393.2	392.1	392.6	393.8	394.5
177.5°	395.5	394.5	395.5	396.4	396.7	395.3	393.5	392.6	393.1	393.9	394.5
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



TEST NUMBER: P934631

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	614.0	610.6	610.6	604.9	602.6	600.9	598.1	589.4	587.1	584.8	588.3
5°	619.2	612.9	608.3	598.1	589.4	586.0	575.1	554.5	540.7	530.4	524.7
7.5°	620.4	612.3	603.8	587.7	567.1	557.9	524.7	486.9	476.6	467.5	461.7
10°	619.2	610.0	598.1	574.0	525.3	509.2	476.0	451.4	445.1	443.4	445.1
12.5°	615.2	606.6	590.0	549.9	481.7	470.9	451.4	437.1	435.9	438.8	454.2
15°	608.3	600.3	580.8	517.9	457.7	449.7	435.9	430.7	437.1	457.1	503.5
17.5°	601.5	592.3	568.3	486.3	439.4	433.6	423.9	434.2	469.7	496.7	512.1
20°	592.3	581.4	553.9	463.4	426.2	421.0	416.5	462.9	489.8	499.5	508.1
22.5°	581.4	570.0	534.4	447.4	412.5	408.4	411.3	478.9	489.8	496.7	504.1
25°	567.1	557.3	511.5	434.8	401.5	397.0	407.8	477.2	483.4	485.1	500.1
27.5°	553.9	541.3	487.5	423.3	388.4	386.7	410.8	469.7	474.3	476.0	492.1
30°	537.8	519.0	460.5	411.3	374.6	374.0	411.3	460.5	459.4	464.0	480.0
32.5°	521.3	485.7	430.2	396.4	361.5	360.9	407.2	446.8	445.7	451.9	464.0
35°	505.8	459.9	389.0	379.2	344.8	345.4	397.5	430.7	431.3	437.1	444.5
37.5°	489.8	437.7	343.7	360.3	328.8	328.8	384.4	415.9	414.8	416.5	426.7
40°	470.9	402.7	303.6	335.7	313.9	312.2	368.3	399.8	395.8	395.3	409.6
42.5°	450.8	364.3	273.8	303.0	296.7	294.4	348.8	380.3	372.9	374.6	393.0
45°	429.0	354.0	250.9	256.1	279.0	277.2	327.6	358.1	352.8	357.5	376.3
47.5°	407.2	333.4	243.4	212.5	260.1	259.5	304.2	336.3	333.4	338.0	358.1
50°	377.5	310.5	242.9	182.2	238.9	241.1	276.1	315.1	315.1	319.1	340.3
52.5°	339.1	282.4	220.5	164.9	214.2	221.1	251.5	296.7	297.8	301.8	320.8
55°	304.2	253.2	204.5	151.8	185.0	200.0	227.4	277.8	280.1	284.1	301.3
57.5°	272.1	210.8	201.1	136.3	158.1	172.4	206.2	259.5	260.6	264.1	280.7
60°	237.7	152.4	184.5	119.7	134.6	145.5	186.7	237.7	241.7	244.0	258.4
62.5°	198.8	110.5	167.2	108.3	123.2	125.5	170.7	217.1	222.2	224.0	232.6
65°	141.5	92.8	142.0	98.6	111.1	111.7	153.5	195.9	200.5	203.4	209.7
67.5°	95.7	75.6	108.3	89.3	102.0	102.5	136.9	171.3	177.6	179.9	183.9
70°	66.5	50.4	80.2	79.6	91.6	92.8	119.2	149.0	154.7	156.4	158.7
72.5°	48.7	40.7	66.5	71.6	80.8	81.9	100.8	123.8	129.5	131.2	132.3
75°	37.2	43.0	53.8	62.4	68.8	69.3	82.5	100.8	104.8	106.0	106.5
77.5°	29.8	40.1	39.5	50.4	56.1	55.0	64.7	77.9	81.3	81.3	81.3
80°	22.4	31.5	29.8	36.1	41.3	40.1	46.4	55.6	56.7	57.8	57.3
82.5°	16.6	20.1	20.1	22.9	27.5	26.4	30.9	36.1	36.1	36.1	37.2
85°	10.3	11.4	9.1	12.0	15.5	14.9	17.2	19.5	20.1	20.1	18.9
87.5°	6.3	5.1	2.9	4.6	6.8	6.8	8.0	8.6	8.0	8.0	8.0
90°	6.9	4.8	2.6	4.8	6.9	7.4	11.7	17.3	20.2	17.9	13.4
92.5°	46.5	28.6	10.6	28.6	46.5	51.1	71.8	99.5	113.3	99.3	71.3
95°	91.4	58.4	25.5	58.4	91.4	99.6	176.8	279.7	331.2	295.5	224.2
97.5°	102.1	73.0	44.0	73.0	102.1	109.3	238.1	409.8	495.7	473.1	428.1
100°	111.0	84.6	58.3	84.6	111.0	117.5	260.4	451.0	546.2	547.8	551.2
102.5°	119.6	95.1	70.5	95.1	119.6	125.7	270.7	464.0	560.6	589.3	646.7
105°	132.7	111.9	91.1	111.9	132.7	137.9	278.3	465.4	558.9	623.3	752.1
107.5°	151.1	131.7	112.2	131.7	151.1	156.0	279.7	444.7	527.2	616.9	796.5
110°	161.7	144.1	126.6	144.1	161.7	166.0	277.6	426.3	500.7	601.0	801.8



TEST NUMBER: P934631

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	174.0	157.3	140.6	157.3	174.0	178.2	277.7	410.3	476.6	579.4	784.8
115°	192.6	177.1	161.8	177.1	192.6	196.4	280.2	391.9	447.7	546.7	744.6
117.5°	210.7	196.7	182.7	196.7	210.7	214.2	285.4	380.3	427.8	517.2	695.8
120°	221.2	208.1	194.9	208.1	221.2	224.6	289.6	376.5	419.9	501.5	664.8
122.5°	233.3	220.1	206.8	220.1	233.3	236.7	295.7	374.4	413.8	487.3	634.3
125°	249.3	237.2	225.1	237.2	249.3	252.3	304.0	372.8	407.2	469.7	594.6
127.5°	264.4	252.1	239.9	252.1	264.4	267.4	312.2	371.9	401.7	455.3	562.5
130°	274.2	261.0	247.9	261.0	274.2	277.5	318.2	372.4	399.6	447.3	542.7
132.5°	282.4	269.2	256.1	269.2	282.4	285.7	323.0	372.8	397.7	440.4	525.9
135°	292.2	280.2	268.2	280.2	292.2	295.2	328.3	372.5	394.5	430.3	501.9
137.5°	304.4	292.5	280.7	292.5	304.4	307.4	336.3	374.8	394.0	424.2	484.7
140°	312.9	301.9	291.0	301.9	312.9	315.6	341.1	375.1	392.1	418.3	470.5
142.5°	319.1	309.0	298.9	309.0	319.1	321.7	345.2	376.5	392.1	415.1	461.0
145°	328.8	320.0	311.1	320.0	328.8	331.0	350.4	376.5	389.5	408.3	445.8
147.5°	340.5	331.8	323.3	331.8	340.5	342.6	358.2	379.1	389.5	404.3	433.8
150°	346.8	339.0	331.2	339.0	346.8	348.7	362.3	380.4	389.5	402.0	426.9
152.5°	351.2	345.3	339.4	345.3	351.2	352.7	365.0	381.3	389.5	400.2	421.4
155°	360.3	356.0	351.6	356.0	360.3	361.4	370.8	383.2	389.5	397.9	414.8
157.5°	369.2	364.9	360.6	364.9	369.2	370.2	376.6	385.2	389.5	396.1	409.2
160°	373.3	370.0	366.7	370.0	373.3	374.1	379.2	386.1	389.5	395.1	406.5
162.5°	377.8	375.3	372.8	375.3	377.8	378.4	382.1	387.0	389.5	394.3	403.7
165°	383.8	381.6	379.4	381.6	383.8	384.4	386.2	388.4	389.5	392.9	399.7
167.5°	387.6	386.5	385.5	386.5	387.6	387.9	389.3	391.2	392.1	394.4	398.9
170°	391.6	390.5	389.5	390.5	391.6	391.9	392.0	392.0	392.1	394.4	398.9
172.5°	392.0	391.9	391.6	391.9	392.0	392.1	392.1	392.1	392.1	393.9	397.4
175°	394.5	394.5	394.5	394.5	394.5	394.5	393.8	392.6	392.1	393.2	395.5
177.5°	394.5	394.5	394.5	394.5	394.5	394.5	393.9	393.1	392.6	393.5	395.3
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



TEST NUMBER: P934631

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	584.3	582.6	584.8	578.6	584.8	582.6	584.3	588.3	584.8	587.1	589.4
5°	512.6	509.8	500.7	493.2	500.7	509.8	512.6	524.7	530.4	540.7	554.5
7.5°	458.2	455.9	453.7	449.1	453.7	455.9	458.2	461.7	467.5	476.6	486.9
10°	446.2	446.8	450.2	449.7	450.2	446.8	446.2	445.1	443.4	445.1	451.4
12.5°	477.2	482.3	501.2	500.1	501.2	482.3	477.2	454.2	438.8	435.9	437.1
15°	512.6	514.4	518.4	519.0	518.4	514.4	512.6	503.5	457.1	437.1	430.7
17.5°	516.1	516.7	519.6	519.6	519.6	516.7	516.1	512.1	496.7	469.7	434.2
20°	513.2	514.4	520.2	521.3	520.2	514.4	513.2	508.1	499.5	489.8	462.9
22.5°	512.1	514.4	519.0	518.4	519.0	514.4	512.1	504.1	496.7	489.8	478.9
25°	506.4	506.4	506.9	507.5	506.9	506.4	506.4	500.1	485.1	483.4	477.2
27.5°	494.4	495.5	498.9	498.4	498.9	495.5	494.4	492.1	476.0	474.3	469.7
30°	483.4	482.3	479.4	477.2	479.4	482.3	483.4	480.0	464.0	459.4	460.5
32.5°	465.2	462.3	459.4	457.7	459.4	462.3	465.2	464.0	451.9	445.7	446.8
35°	443.4	444.0	443.4	441.7	443.4	444.0	443.4	444.5	437.1	431.3	430.7
37.5°	427.9	429.0	428.4	426.2	428.4	429.0	427.9	426.7	416.5	414.8	415.9
40°	411.9	412.5	411.9	410.2	411.9	412.5	411.9	409.6	395.3	395.8	399.8
42.5°	396.4	395.8	394.1	393.0	394.1	395.8	396.4	393.0	374.6	372.9	380.3
45°	378.6	379.2	375.7	374.0	375.7	379.2	378.6	376.3	357.5	352.8	358.1
47.5°	360.9	360.9	358.1	356.3	358.1	360.9	360.9	358.1	338.0	333.4	336.3
50°	342.0	341.4	337.4	336.8	337.4	341.4	342.0	340.3	319.1	315.1	315.1
52.5°	320.2	320.2	320.8	321.9	320.8	320.2	320.2	320.8	301.8	297.8	296.7
55°	301.3	301.8	305.9	307.1	305.9	301.8	301.3	301.3	284.1	280.1	277.8
57.5°	281.9	281.9	284.7	284.7	284.7	281.9	281.9	280.7	264.1	260.6	259.5
60°	259.5	260.6	262.9	262.4	262.9	260.6	259.5	258.4	244.0	241.7	237.7
62.5°	236.0	237.2	237.7	236.6	237.7	237.2	236.0	232.6	224.0	222.2	217.1
65°	211.4	212.5	213.1	211.9	213.1	212.5	211.4	209.7	203.4	200.5	195.9
67.5°	186.2	185.6	185.0	187.3	185.0	185.6	186.2	183.9	179.9	177.6	171.3
70°	160.4	160.4	159.8	161.0	159.8	160.4	160.4	158.7	156.4	154.7	149.0
72.5°	132.9	132.3	134.6	132.9	134.6	132.3	132.9	132.3	131.2	129.5	123.8
75°	106.0	107.1	106.0	107.7	106.0	107.1	106.0	106.5	106.0	104.8	100.8
77.5°	80.8	81.9	80.8	80.8	80.8	81.9	80.8	81.3	81.3	81.3	77.9
80°	57.3	56.7	56.7	56.1	56.7	56.7	57.3	57.3	57.8	56.7	55.6
82.5°	36.6	36.1	36.1	37.2	36.1	36.1	36.6	37.2	36.1	36.1	36.1
85°	20.1	20.6	19.5	19.5	19.5	20.6	20.1	18.9	20.1	20.1	19.5
87.5°	7.4	6.8	6.8	6.8	6.8	6.8	7.4	8.0	8.0	8.0	8.6
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.2	17.3
92.5°	50.3	48.3	40.3	32.3	40.3	48.3	50.3	71.3	99.3	113.3	99.5
95°	170.7	164.7	140.5	116.2	140.5	164.7	170.7	224.2	295.5	331.2	279.7
97.5°	394.3	382.7	336.6	290.5	336.6	382.7	394.3	428.1	473.1	495.7	409.8
100°	553.6	539.9	485.0	430.0	485.0	539.9	553.6	551.2	547.8	546.2	451.0
102.5°	689.7	677.9	630.9	583.8	630.9	677.9	689.7	646.7	589.3	560.6	464.0
105°	848.6	842.3	817.0	791.7	817.0	842.3	848.6	752.1	623.3	558.9	465.4
107.5°	931.2	932.7	938.9	945.0	938.9	932.7	931.2	796.5	616.9	527.2	444.7
110°	952.4	958.9	985.3	1011.7	985.3	958.9	952.4	801.8	601.0	500.7	426.3



TEST NUMBER: P934631

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	938.9	949.0	989.5	1030.0	989.5	949.0	938.9	784.8	579.4	476.6	410.3
115°	893.1	907.1	963.3	1019.4	963.3	907.1	893.1	744.6	546.7	447.7	391.9
117.5°	829.8	845.3	907.6	969.9	907.6	845.3	829.8	695.8	517.2	427.8	380.3
120°	787.2	802.3	862.8	923.2	862.8	802.3	787.2	664.8	501.5	419.9	376.5
122.5°	744.5	759.5	819.1	878.8	819.1	759.5	744.5	634.3	487.3	413.8	374.4
125°	688.2	701.9	756.8	811.8	756.8	701.9	688.2	594.6	469.7	407.2	372.8
127.5°	642.9	654.5	700.8	747.2	700.8	654.5	642.9	562.5	455.3	401.7	371.9
130°	614.3	625.0	667.8	710.6	667.8	625.0	614.3	542.7	447.3	399.6	372.4
132.5°	589.9	599.5	637.9	676.2	637.9	599.5	589.9	525.9	440.4	397.7	372.8
135°	555.5	563.8	596.9	629.9	596.9	563.8	555.5	501.9	430.3	394.5	372.5
137.5°	530.1	536.8	563.9	591.0	563.9	536.8	530.1	484.7	424.2	394.0	374.8
140°	509.7	516.0	541.3	566.6	541.3	516.0	509.7	470.5	418.3	392.1	375.1
142.5°	495.4	500.9	522.6	544.3	522.6	500.9	495.4	461.0	415.1	392.1	376.5
145°	474.0	478.1	494.5	511.0	494.5	478.1	474.0	445.8	408.3	389.5	376.5
147.5°	455.9	459.4	473.0	486.7	473.0	459.4	455.9	433.8	404.3	389.5	379.1
150°	445.6	448.3	459.4	470.5	459.4	448.3	445.6	426.9	402.0	389.5	380.4
152.5°	437.4	439.4	447.8	456.2	447.8	439.4	437.4	421.4	400.2	389.5	381.3
155°	427.6	428.9	434.5	440.0	434.5	428.9	427.6	414.8	397.9	389.5	383.2
157.5°	419.1	420.1	424.0	427.8	424.0	420.1	419.1	409.2	396.1	389.5	385.2
160°	414.9	415.4	417.7	419.9	417.7	415.4	414.9	406.5	395.1	389.5	386.1
162.5°	410.9	411.4	413.6	415.7	413.6	411.4	410.9	403.7	394.3	389.5	387.0
165°	404.9	405.5	407.7	409.9	407.7	405.5	404.9	399.7	392.9	389.5	388.4
167.5°	402.2	402.5	403.4	404.3	403.4	402.5	402.2	398.9	394.4	392.1	391.2
170°	402.2	402.2	402.2	402.2	402.2	402.2	402.2	398.9	394.4	392.1	392.0
172.5°	400.1	399.9	399.0	398.2	399.0	399.9	400.1	397.4	393.9	392.1	392.1
175°	397.2	397.2	397.2	397.2	397.2	397.2	397.2	395.5	393.2	392.1	392.6
177.5°	396.7	396.4	395.5	394.5	395.5	396.4	396.7	395.3	393.5	392.6	393.1
180°	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5



TEST NUMBER: P934631

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	605.5	605.5	605.5	605.5	605.5
2.5°	598.1	600.9	602.6	604.9	610.6
5°	575.1	586.0	589.4	598.1	608.3
7.5°	524.7	557.9	567.1	587.7	603.8
10°	476.0	509.2	525.3	574.0	598.1
12.5°	451.4	470.9	481.7	549.9	590.0
15°	435.9	449.7	457.7	517.9	580.8
17.5°	423.9	433.6	439.4	486.3	568.3
20°	416.5	421.0	426.2	463.4	553.9
22.5°	411.3	408.4	412.5	447.4	534.4
25°	407.8	397.0	401.5	434.8	511.5
27.5°	410.8	386.7	388.4	423.3	487.5
30°	411.3	374.0	374.6	411.3	460.5
32.5°	407.2	360.9	361.5	396.4	430.2
35°	397.5	345.4	344.8	379.2	389.0
37.5°	384.4	328.8	328.8	360.3	343.7
40°	368.3	312.2	313.9	335.7	303.6
42.5°	348.8	294.4	296.7	303.0	273.8
45°	327.6	277.2	279.0	256.1	250.9
47.5°	304.2	259.5	260.1	212.5	243.4
50°	276.1	241.1	238.9	182.2	242.9
52.5°	251.5	221.1	214.2	164.9	220.5
55°	227.4	200.0	185.0	151.8	204.5
57.5°	206.2	172.4	158.1	136.3	201.1
60°	186.7	145.5	134.6	119.7	184.5
62.5°	170.7	125.5	123.2	108.3	167.2
65°	153.5	111.7	111.1	98.6	142.0
67.5°	136.9	102.5	102.0	89.3	108.3
70°	119.2	92.8	91.6	79.6	80.2
72.5°	100.8	81.9	80.8	71.6	66.5
75°	82.5	69.3	68.8	62.4	53.8
77.5°	64.7	55.0	56.1	50.4	39.5
80°	46.4	40.1	41.3	36.1	29.8
82.5°	30.9	26.4	27.5	22.9	20.1
85°	17.2	14.9	15.5	12.0	9.1
87.5°	8.0	6.8	6.8	4.6	2.9
90°	11.7	7.4	6.9	4.8	2.6
92.5°	71.8	51.1	46.5	28.6	10.6
95°	176.8	99.6	91.4	58.4	25.5
97.5°	238.1	109.3	102.1	73.0	44.0
100°	260.4	117.5	111.0	84.6	58.3
102.5°	270.7	125.7	119.6	95.1	70.5
105°	278.3	137.9	132.7	111.9	91.1
107.5°	279.7	156.0	151.1	131.7	112.2
110°	277.6	166.0	161.7	144.1	126.6



TEST NUMBER: P934631

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	277.7	178.2	174.0	157.3	140.6
115°	280.2	196.4	192.6	177.1	161.8
117.5°	285.4	214.2	210.7	196.7	182.7
120°	289.6	224.6	221.2	208.1	194.9
122.5°	295.7	236.7	233.3	220.1	206.8
125°	304.0	252.3	249.3	237.2	225.1
127.5°	312.2	267.4	264.4	252.1	239.9
130°	318.2	277.5	274.2	261.0	247.9
132.5°	323.0	285.7	282.4	269.2	256.1
135°	328.3	295.2	292.2	280.2	268.2
137.5°	336.3	307.4	304.4	292.5	280.7
140°	341.1	315.6	312.9	301.9	291.0
142.5°	345.2	321.7	319.1	309.0	298.9
145°	350.4	331.0	328.8	320.0	311.1
147.5°	358.2	342.6	340.5	331.8	323.3
150°	362.3	348.7	346.8	339.0	331.2
152.5°	365.0	352.7	351.2	345.3	339.4
155°	370.8	361.4	360.3	356.0	351.6
157.5°	376.6	370.2	369.2	364.9	360.6
160°	379.2	374.1	373.3	370.0	366.7
162.5°	382.1	378.4	377.8	375.3	372.8
165°	386.2	384.4	383.8	381.6	379.4
167.5°	389.3	387.9	387.6	386.5	385.5
170°	392.0	391.9	391.6	390.5	389.5
172.5°	392.1	392.1	392.0	391.9	391.6
175°	393.8	394.5	394.5	394.5	394.5
177.5°	393.9	394.5	394.5	394.5	394.5
180°	394.5	394.5	394.5	394.5	394.5



TEST NUMBER: P934631  
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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	9.57	10.34	10.63	11.39	12.83	12.37	13.14	13.43	14.19	15.63
	3H	10.04	10.73	11.11	11.79	13.24	13.70	14.38	14.76	15.45	16.90
	4H	10.23	10.88	11.30	11.95	13.40	14.13	14.78	15.21	15.85	17.31
	6H	10.34	10.94	11.43	12.01	13.48	14.40	15.00	15.49	16.07	17.54
	8H	10.34	10.91	11.43	12.00	13.46	14.47	15.04	15.56	16.13	17.59
	12H	10.31	10.85	11.40	11.93	13.42	14.50	15.04	15.60	16.12	17.61
4H	2H	10.59	11.23	11.67	12.30	13.76	12.77	13.42	13.85	14.49	15.94
	3H	11.60	12.14	12.69	13.24	14.71	14.26	14.80	15.35	15.89	17.36
	4H	11.88	12.37	12.97	13.46	14.95	14.77	15.27	15.87	16.36	17.85
	6H	12.00	12.42	13.10	13.53	15.01	15.13	15.55	16.23	16.66	18.14
	8H	12.00	12.40	13.10	13.50	15.00	15.23	15.62	16.33	16.72	18.22
	12H	11.96	12.32	13.08	13.43	14.94	15.27	15.63	16.39	16.75	18.25
8H	4H	12.32	12.71	13.42	13.81	15.32	14.89	15.29	15.99	16.39	17.89
	6H	12.57	12.90	13.70	14.04	15.54	15.32	15.64	16.44	16.79	18.28
	8H	12.62	12.90	13.75	14.03	15.54	15.46	15.75	16.59	16.87	18.39
	12H	12.60	12.85	13.73	13.97	15.52	15.55	15.80	16.68	16.92	18.48
12H	4H	12.32	12.68	13.44	13.79	15.30	14.85	15.21	15.97	16.33	17.83
	6H	12.63	12.92	13.76	14.04	15.56	15.31	15.60	16.44	16.72	18.24
	8H	12.69	12.95	13.83	14.07	15.62	15.46	15.72	16.60	16.84	18.39