

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: P933834

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933834
REPORT IS A COMBINATION OF REPORTS P933674 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

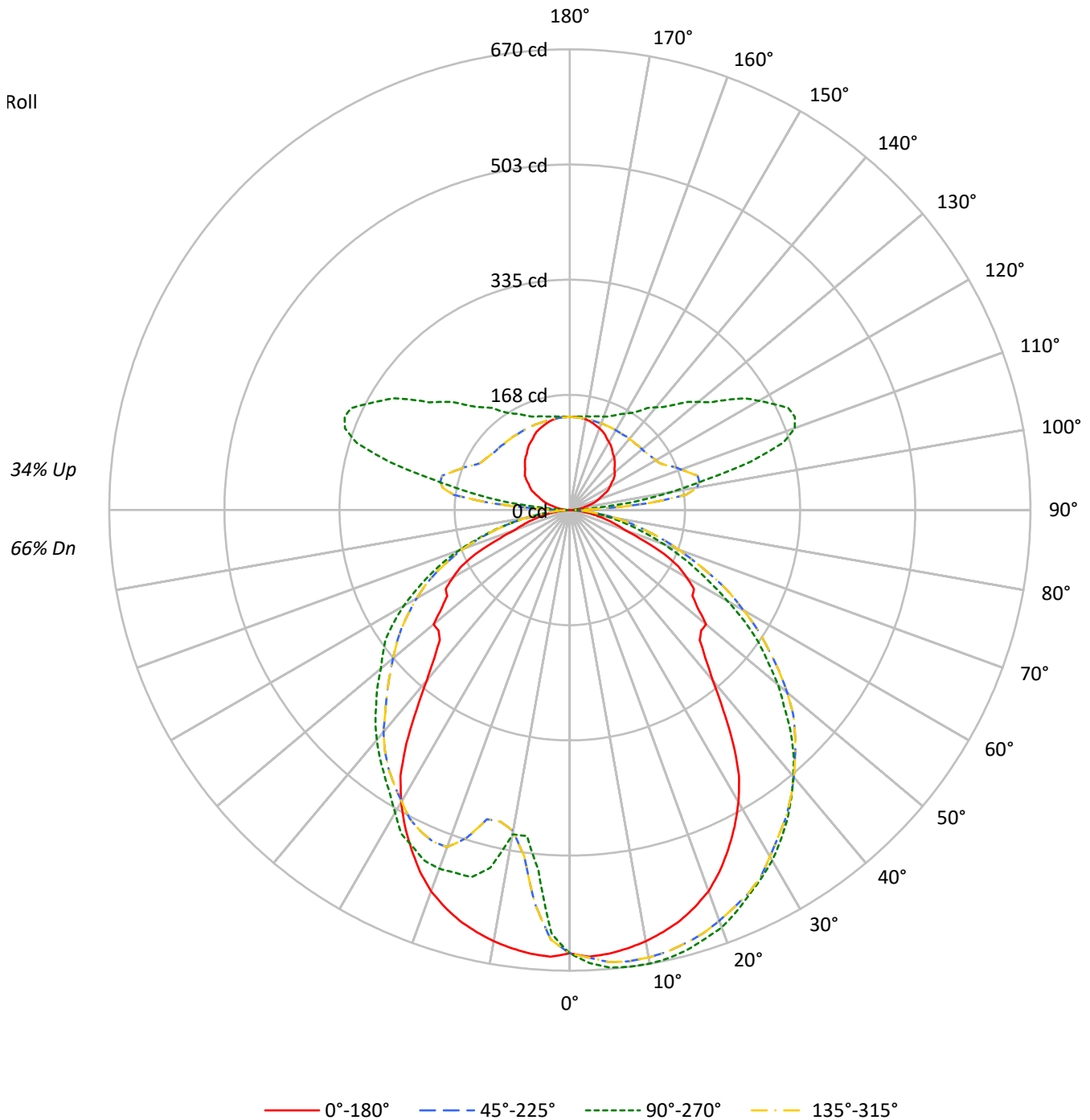
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2552.4 lumens
Efficiency: N/A
Efficacy: 116.0 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-Direct

Input Watts (W): 22
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

TEST NUMBER: P933834
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Luminous Intensity Polar Plot





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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5983	5983	5983	5983
5°	6021	6040	6021	4749
10°	5975	5950	5975	4254
15°	5903	5821	5903	4860
20°	5773	5668	5773	4871
25°	5514	5446	5514	4767
30°	5181	5260	5181	4541
35°	4611	5027	4611	4292
40°	3836	4752	3836	4104
45°	3421	4429	3421	3887
50°	3627	4044	3627	3670
55°	3402	3630	3402	3545
60°	3495	3083	3495	3246
65°	3153	2548	3153	2849
70°	2168	2031	2168	2389
75°	1879	1502	1879	1798
80°	1484	993	1484	1081
85°	803	526	803	446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	2.3
10°-20°	165.3	6.5
20°-30°	255.5	10.0
30°-40°	305.0	11.9
40°-50°	306.8	12.0
50°-60°	266.9	10.5
60°-70°	189.3	7.4
70°-80°	100.1	3.9
80°-90°	25.5	1.0
90°-100°	66.2	2.6
100°-110°	174.0	6.8
110°-120°	180.4	7.1
120°-130°	144.7	5.7
130°-140°	113.5	4.4
140°-150°	87.1	3.4
150°-160°	62.7	2.5
160°-170°	38.4	1.5
170°-180°	13.0	0.5
0°-30°	478.9	18.8
0°-40°	783.9	30.7
0°-60°	1357.6	53.2
0°-90°	1672.4	65.5
90°-120°	420.5	16.5
90°-150°	765.9	30.0
90°-180°	880.0	34.5
0°-180°	2552.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	645	645	645	645	645	
5°	648	668	648	525	648	61
15°	619	662	619	553	619	174
25°	545	617	545	540	545	250
35°	414	551	414	470	414	256
45°	267	454	267	398	267	214
55°	218	335	218	327	218	200
65°	151	202	151	226	151	145
75°	57	96	57	115	57	60
85°	10	24	10	21	10	13
90°	1	4	1	4	1	1
95°	9	40	9	40	9	10
105°	31	272	31	272	31	33
115°	56	351	56	351	56	55
125°	77	279	77	279	77	69
135°	92	217	92	217	92	71
145°	107	176	107	176	107	67
155°	121	152	121	152	121	56
165°	130	141	130	141	130	37
175°	136	137	136	137	136	13
180°	136	136	136	136	136	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	650.3	650.3	653.9	655.2	655.2	653.4	651.6	653.4	658.9	660.7	660.0
5°	647.8	652.8	659.5	660.7	661.9	661.3	660.0	661.3	667.4	668.6	669.2
7.5°	643.0	652.1	660.7	662.5	664.3	662.5	661.9	663.1	669.2	670.4	670.4
10°	636.9	649.7	659.5	660.7	662.5	660.7	660.7	663.1	669.2	670.4	671.0
12.5°	628.4	646.0	655.2	656.4	658.9	658.2	657.7	660.0	666.2	667.4	667.4
15°	618.6	639.3	647.8	649.1	653.4	652.1	652.1	654.6	661.3	663.1	662.5
17.5°	605.2	630.8	640.6	642.4	645.5	644.8	645.5	647.8	653.9	655.2	655.8
20°	589.9	619.2	630.8	632.7	635.7	635.7	635.7	638.7	644.8	647.3	647.3
22.5°	569.2	607.0	619.2	620.5	624.1	624.1	625.3	629.6	635.0	635.7	635.7
25°	544.8	593.5	603.9	607.6	611.3	613.1	614.9	617.4	619.2	618.6	619.2
27.5°	519.1	576.5	589.9	592.4	597.3	599.1	601.5	602.1	602.7	604.5	603.4
30°	490.5	552.7	572.8	575.3	583.2	584.4	582.0	583.2	586.3	587.4	588.7
32.5°	458.2	517.3	555.2	560.6	568.0	564.3	563.7	565.5	570.4	570.4	571.6
35°	414.2	489.8	538.7	543.6	549.1	544.8	547.2	547.8	550.9	552.7	552.1
37.5°	366.0	466.1	521.6	525.2	529.5	524.0	527.7	529.5	532.0	530.8	530.8
40°	323.3	428.9	501.5	503.9	507.6	503.3	506.9	508.2	509.4	508.2	507.6
42.5°	291.6	388.0	480.1	483.2	480.7	483.7	485.0	487.5	485.6	483.2	483.2
45°	267.2	377.0	456.9	460.5	456.9	461.8	463.6	463.6	458.2	456.9	456.3
47.5°	259.2	355.0	433.7	433.7	431.9	438.0	441.1	436.8	431.3	429.4	429.4
50°	258.7	330.7	402.1	399.6	408.2	415.4	412.4	408.2	403.9	397.1	397.1
52.5°	234.9	300.7	361.1	370.3	383.7	388.0	383.1	378.9	371.5	368.5	366.0
55°	217.8	269.6	323.9	342.2	356.3	361.8	352.6	348.3	337.4	335.6	334.3
57.5°	214.1	224.5	289.8	312.9	330.0	329.5	323.9	316.0	306.8	305.0	304.5
60°	196.5	162.3	253.2	280.6	298.3	296.5	291.6	284.3	275.7	274.5	273.3
62.5°	178.1	117.7	211.7	242.8	267.8	267.2	263.0	252.0	245.9	242.8	240.3
65°	151.3	98.8	150.7	201.9	238.0	239.1	230.0	222.0	215.3	211.7	211.0
67.5°	115.3	80.5	101.9	168.4	209.2	208.0	196.5	192.8	184.2	182.4	178.7
70°	85.4	53.7	70.8	136.6	181.2	178.1	169.0	164.7	156.8	152.5	150.1
72.5°	70.8	43.3	51.8	106.2	152.5	148.8	140.9	136.1	129.4	125.7	123.3
75°	57.3	45.8	39.7	78.7	123.8	121.4	114.1	109.2	103.7	98.8	99.4
77.5°	42.1	42.7	31.7	57.9	98.2	94.6	90.3	84.2	81.8	76.9	76.9
80°	31.7	33.6	23.8	39.7	70.8	70.8	67.1	62.9	58.6	56.1	56.1
82.5°	21.4	21.4	17.6	25.0	48.2	46.4	43.9	42.7	40.3	39.0	39.0
85°	9.7	12.2	11.0	15.3	26.2	27.5	27.5	26.2	25.7	24.4	25.0
87.5°	3.1	5.5	6.7	8.6	13.5	14.0	14.6	14.6	14.6	15.3	15.3
90°	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6	3.5	3.5
92.5°	3.6	9.8	16.0	17.6	24.7	34.3	39.0	34.2	24.6	17.3	16.6
95°	8.7	20.1	31.5	34.3	60.9	96.2	114.0	101.7	77.1	58.8	56.7
97.5°	15.1	25.1	35.1	37.7	82.0	141.0	170.6	162.8	147.3	135.6	131.6
100°	20.0	29.1	38.2	40.5	89.6	155.2	187.9	188.5	189.7	190.5	185.7
102.5°	24.2	32.7	41.2	43.3	93.1	159.6	192.8	202.8	222.5	237.3	233.2
105°	31.4	38.6	45.7	47.5	95.8	160.1	192.3	214.5	258.8	292.0	289.8
107.5°	38.7	45.3	52.0	53.7	96.2	153.0	181.4	212.3	274.1	320.5	321.0
110°	43.6	49.6	55.6	57.1	95.5	146.7	172.3	206.9	275.9	327.7	330.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.4	54.1	59.9	61.3	95.5	141.2	164.0	199.4	270.1	323.1	326.6
115°	55.7	60.9	66.2	67.6	96.4	134.9	154.1	188.1	256.2	307.3	312.1
117.5°	62.9	67.7	72.5	73.7	98.2	130.9	147.3	178.0	239.4	285.5	290.9
120°	67.0	71.6	76.1	77.2	99.6	129.5	144.5	172.6	228.8	270.9	276.1
122.5°	71.1	75.7	80.2	81.4	101.7	128.8	142.4	167.6	218.2	256.2	261.2
125°	77.4	81.6	85.8	86.9	104.6	128.3	140.1	161.6	204.6	236.8	241.5
127.5°	82.5	86.8	91.0	92.1	107.4	127.9	138.2	156.6	193.6	221.2	225.2
130°	85.2	89.8	94.3	95.5	109.5	128.2	137.4	153.9	186.7	211.4	215.0
132.5°	88.1	92.7	97.2	98.3	111.2	128.3	136.8	151.5	180.9	203.0	206.3
135°	92.3	96.4	100.6	101.6	113.0	128.2	135.7	148.0	172.6	191.1	193.9
137.5°	96.6	100.7	104.8	105.8	115.7	128.9	135.5	145.9	166.7	182.4	184.7
140°	100.2	103.9	107.7	108.6	117.3	129.1	134.9	143.9	161.9	175.4	177.6
142.5°	102.9	106.3	109.8	110.7	118.8	129.5	134.9	142.8	158.6	170.5	172.4
145°	107.1	110.1	113.2	113.9	120.6	129.5	134.0	140.4	153.4	163.1	164.6
147.5°	111.2	114.2	117.2	117.9	123.3	130.4	134.0	139.1	149.3	156.9	158.1
150°	114.0	116.6	119.3	120.0	124.6	130.9	134.0	138.3	146.9	153.4	154.3
152.5°	116.8	118.8	120.8	121.3	125.5	131.2	134.0	137.6	145.0	150.5	151.3
155°	121.0	122.4	124.0	124.3	127.5	131.8	134.0	136.9	142.8	147.2	147.6
157.5°	124.1	125.5	127.0	127.3	129.5	132.5	134.0	136.3	140.8	144.2	144.5
160°	126.2	127.3	128.4	128.7	130.4	132.8	134.0	135.9	139.8	142.7	142.9
162.5°	128.3	129.1	130.0	130.2	131.4	133.2	134.0	135.6	138.9	141.4	141.5
165°	130.5	131.3	132.1	132.3	132.8	133.6	134.0	135.2	137.5	139.3	139.4
167.5°	132.6	133.0	133.4	133.4	133.9	134.5	134.9	135.6	137.2	138.4	138.4
170°	134.0	134.4	134.7	134.8	134.8	134.9	134.9	135.6	137.2	138.4	138.4
172.5°	134.7	134.8	134.9	134.9	134.9	134.9	134.9	135.5	136.7	137.6	137.5
175°	135.7	135.7	135.7	135.7	135.4	135.1	134.9	135.3	136.1	136.6	136.6
177.5°	135.7	135.7	135.7	135.7	135.5	135.3	135.1	135.4	136.0	136.4	136.4
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	661.3	659.5	661.3	660.0	660.7	658.9	653.4	651.6	653.4	655.2	655.2
5°	669.2	668.0	669.2	669.2	668.6	667.4	661.3	660.0	661.3	661.9	660.7
7.5°	671.7	669.9	671.7	670.4	670.4	669.2	663.1	661.9	662.5	664.3	662.5
10°	671.7	669.9	671.7	671.0	670.4	669.2	663.1	660.7	660.7	662.5	660.7
12.5°	668.6	667.4	668.6	667.4	667.4	666.2	660.0	657.7	658.2	658.9	656.4
15°	663.8	661.9	663.8	662.5	663.1	661.3	654.6	652.1	652.1	653.4	649.1
17.5°	656.4	653.9	656.4	655.8	655.2	653.9	647.8	645.5	644.8	645.5	642.4
20°	647.8	646.0	647.8	647.3	647.3	644.8	638.7	635.7	635.7	635.7	632.7
22.5°	634.5	632.7	634.5	635.7	635.7	635.0	629.6	625.3	624.1	624.1	620.5
25°	619.2	617.4	619.2	619.2	618.6	619.2	617.4	614.9	613.1	611.3	607.6
27.5°	604.5	603.4	604.5	603.4	604.5	602.7	602.1	601.5	599.1	597.3	592.4
30°	589.9	588.7	589.9	588.7	587.4	586.3	583.2	582.0	584.4	583.2	575.3
32.5°	571.6	570.4	571.6	571.6	570.4	570.4	565.5	563.7	564.3	568.0	560.6
35°	552.7	550.9	552.7	552.1	552.7	550.9	547.8	547.2	544.8	549.1	543.6
37.5°	530.8	529.0	530.8	530.8	530.8	532.0	529.5	527.7	524.0	529.5	525.2
40°	508.2	505.8	508.2	507.6	508.2	509.4	508.2	506.9	503.3	507.6	503.9
42.5°	482.6	481.9	482.6	483.2	483.2	485.6	487.5	485.0	483.7	480.7	483.2
45°	455.1	453.9	455.1	456.3	456.9	458.2	463.6	463.6	461.8	456.9	460.5
47.5°	425.8	422.8	425.8	429.4	429.4	431.3	436.8	441.1	438.0	431.9	433.7
50°	394.7	395.3	394.7	397.1	397.1	403.9	408.2	412.4	415.4	408.2	399.6
52.5°	364.2	363.6	364.2	366.0	368.5	371.5	378.9	383.1	388.0	383.7	370.3
55°	333.7	334.9	333.7	334.3	335.6	337.4	348.3	352.6	361.8	356.3	342.2
57.5°	303.2	301.4	303.2	304.5	305.0	306.8	316.0	323.9	329.5	330.0	312.9
60°	267.8	265.3	267.8	273.3	274.5	275.7	284.3	291.6	296.5	298.3	280.6
62.5°	236.7	232.4	236.7	240.3	242.8	245.9	252.0	263.0	267.2	267.8	242.8
65°	203.8	201.9	203.8	211.0	211.7	215.3	222.0	230.0	239.1	238.0	201.9
67.5°	173.8	173.8	173.8	178.7	182.4	184.2	192.8	196.5	208.0	209.2	168.4
70°	146.5	145.8	146.5	150.1	152.5	156.8	164.7	169.0	178.1	181.2	136.6
72.5°	120.2	119.5	120.2	123.3	125.7	129.4	136.1	140.9	148.8	152.5	106.2
75°	97.0	95.8	97.0	99.4	98.8	103.7	109.2	114.1	121.4	123.8	78.7
77.5°	74.4	74.4	74.4	76.9	76.9	81.8	84.2	90.3	94.6	98.2	57.9
80°	55.5	54.9	55.5	56.1	56.1	58.6	62.9	67.1	70.8	70.8	39.7
82.5°	39.0	37.8	39.0	39.0	39.0	40.3	42.7	43.9	46.4	48.2	25.0
85°	24.4	24.4	24.4	25.0	24.4	25.7	26.2	27.5	27.5	26.2	15.3
87.5°	15.8	15.3	15.8	15.3	15.3	14.6	14.6	14.6	14.0	13.5	8.6
90°	3.5	3.5	3.5	3.5	3.5	4.6	6.2	6.9	5.9	4.0	2.5
92.5°	13.8	11.1	13.8	16.6	17.3	24.6	34.2	39.0	34.3	24.7	17.6
95°	48.4	40.0	48.4	56.7	58.8	77.1	101.7	114.0	96.2	60.9	34.3
97.5°	115.8	100.0	115.8	131.6	135.6	147.3	162.8	170.6	141.0	82.0	37.7
100°	166.9	148.0	166.9	185.7	190.5	189.7	188.5	187.9	155.2	89.6	40.5
102.5°	217.0	200.8	217.0	233.2	237.3	222.5	202.8	192.8	159.6	93.1	43.3
105°	281.2	272.4	281.2	289.8	292.0	258.8	214.5	192.3	160.1	95.8	47.5
107.5°	323.1	325.2	323.1	321.0	320.5	274.1	212.3	181.4	153.0	96.2	53.7
110°	339.0	348.1	339.0	330.0	327.7	275.9	206.9	172.3	146.7	95.5	57.1



TEST NUMBER: P933834

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	340.5	354.4	340.5	326.6	323.1	270.1	199.4	164.0	141.2	95.5	61.3
115°	331.5	350.8	331.5	312.1	307.3	256.2	188.1	154.1	134.9	96.4	67.6
117.5°	312.3	333.7	312.3	290.9	285.5	239.4	178.0	147.3	130.9	98.2	73.7
120°	296.9	317.6	296.9	276.1	270.9	228.8	172.6	144.5	129.5	99.6	77.2
122.5°	281.8	302.4	281.8	261.2	256.2	218.2	167.6	142.4	128.8	101.7	81.4
125°	260.4	279.3	260.4	241.5	236.8	204.6	161.6	140.1	128.3	104.6	86.9
127.5°	241.1	257.1	241.1	225.2	221.2	193.6	156.6	138.2	127.9	107.4	92.1
130°	229.8	244.5	229.8	215.0	211.4	186.7	153.9	137.4	128.2	109.5	95.5
132.5°	219.5	232.7	219.5	206.3	203.0	180.9	151.5	136.8	128.3	111.2	98.3
135°	205.4	216.8	205.4	193.9	191.1	172.6	148.0	135.7	128.2	113.0	101.6
137.5°	194.0	203.4	194.0	184.7	182.4	166.7	145.9	135.5	128.9	115.7	105.8
140°	186.2	194.9	186.2	177.6	175.4	161.9	143.9	134.9	129.1	117.3	108.6
142.5°	179.8	187.3	179.8	172.4	170.5	158.6	142.8	134.9	129.5	118.8	110.7
145°	170.2	175.8	170.2	164.6	163.1	153.4	140.4	134.0	129.5	120.6	113.9
147.5°	162.7	167.5	162.7	158.1	156.9	149.3	139.1	134.0	130.4	123.3	117.9
150°	158.1	161.9	158.1	154.3	153.4	146.9	138.3	134.0	130.9	124.6	120.0
152.5°	154.1	157.0	154.1	151.3	150.5	145.0	137.6	134.0	131.2	125.5	121.3
155°	149.5	151.5	149.5	147.6	147.2	142.8	136.9	134.0	131.8	127.5	124.3
157.5°	145.9	147.3	145.9	144.5	144.2	140.8	136.3	134.0	132.5	129.5	127.3
160°	143.7	144.5	143.7	142.9	142.7	139.8	135.9	134.0	132.8	130.4	128.7
162.5°	142.3	143.0	142.3	141.5	141.4	138.9	135.6	134.0	133.2	131.4	130.2
165°	140.3	141.0	140.3	139.4	139.3	137.5	135.2	134.0	133.6	132.8	132.3
167.5°	138.7	139.1	138.7	138.4	138.4	137.2	135.6	134.9	134.5	133.9	133.4
170°	138.4	138.4	138.4	138.4	138.4	137.2	135.6	134.9	134.9	134.8	134.8
172.5°	137.3	137.0	137.3	137.5	137.6	136.7	135.5	134.9	134.9	134.9	134.9
175°	136.6	136.6	136.6	136.6	136.6	136.1	135.3	134.9	135.1	135.4	135.7
177.5°	136.1	135.7	136.1	136.4	136.4	136.0	135.4	135.1	135.3	135.5	135.7
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



TEST NUMBER: P933834

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	653.9	650.3	650.3	644.2	641.7	639.9	636.9	627.7	625.3	622.8	626.6
5°	659.5	652.8	647.8	636.9	627.7	624.1	612.5	590.5	575.9	564.9	558.8
7.5°	660.7	652.1	643.0	625.9	603.9	594.2	558.8	518.6	507.6	497.8	491.7
10°	659.5	649.7	636.9	611.3	559.4	542.3	506.9	480.7	474.0	472.2	474.0
12.5°	655.2	646.0	628.4	585.6	513.0	501.5	480.7	465.5	464.3	467.3	483.7
15°	647.8	639.3	618.6	551.5	487.5	478.9	464.3	458.7	465.5	486.8	536.2
17.5°	640.6	630.8	605.2	517.9	467.9	461.8	451.5	462.5	500.2	529.0	545.4
20°	630.8	619.2	589.9	493.6	453.9	448.4	443.5	492.9	521.6	532.0	541.1
22.5°	619.2	607.0	569.2	476.5	439.3	435.0	438.0	510.0	521.6	529.0	536.9
25°	603.9	593.5	544.8	463.0	427.6	422.8	434.4	508.2	514.9	516.7	532.6
27.5°	589.9	576.5	519.1	450.8	413.6	411.8	437.4	500.2	505.1	506.9	524.0
30°	572.8	552.7	490.5	438.0	399.0	398.3	438.0	490.5	489.3	494.1	511.2
32.5°	555.2	517.3	458.2	422.2	385.0	384.3	433.7	475.8	474.6	481.3	494.1
35°	538.7	489.8	414.2	403.9	367.2	367.9	423.3	458.7	459.4	465.5	473.4
37.5°	521.6	466.1	366.0	383.7	350.2	350.2	409.3	442.9	441.7	443.5	454.5
40°	501.5	428.9	323.3	357.5	334.3	332.5	392.2	425.8	421.5	421.0	436.2
42.5°	480.1	388.0	291.6	322.7	316.0	313.6	371.5	405.1	397.1	399.0	418.5
45°	456.9	377.0	267.2	272.7	297.1	295.3	348.9	381.3	375.8	380.7	400.8
47.5°	433.7	355.0	259.2	226.3	277.0	276.3	323.9	358.1	355.0	359.9	381.3
50°	402.1	330.7	258.7	194.0	254.4	256.8	294.1	335.6	335.6	339.8	362.4
52.5°	361.1	300.7	234.9	175.7	228.1	235.5	267.8	316.0	317.2	321.5	341.7
55°	323.9	269.6	217.8	161.6	197.0	212.9	242.1	295.9	298.3	302.5	320.9
57.5°	289.8	224.5	214.1	145.2	168.4	183.7	219.6	276.3	277.5	281.3	298.9
60°	253.2	162.3	196.5	127.5	143.4	154.9	198.8	253.2	257.4	259.9	275.2
62.5°	211.7	117.7	178.1	115.3	131.2	133.6	181.8	231.2	236.7	238.5	247.7
65°	150.7	98.8	151.3	105.0	118.3	119.0	163.5	208.7	213.5	216.6	223.3
67.5°	101.9	80.5	115.3	95.1	108.6	109.2	145.8	182.4	189.1	191.6	195.8
70°	70.8	53.7	85.4	84.8	97.6	98.8	126.9	158.6	164.7	166.6	169.0
72.5°	51.8	43.3	70.8	76.2	86.1	87.2	107.3	131.8	137.9	139.7	140.9
75°	39.7	45.8	57.3	66.5	73.2	73.8	87.9	107.3	111.6	112.9	113.4
77.5°	31.7	42.7	42.1	53.7	59.8	58.6	69.0	83.0	86.6	86.6	86.6
80°	23.8	33.6	31.7	38.5	43.9	42.7	49.4	59.2	60.4	61.6	61.0
82.5°	17.6	21.4	21.4	24.4	29.3	28.1	32.9	38.5	38.5	38.5	39.7
85°	11.0	12.2	9.7	12.8	16.5	15.8	18.3	20.7	21.4	21.4	20.1
87.5°	6.7	5.5	3.1	4.9	7.3	7.3	8.6	9.2	8.6	8.6	8.6
90°	2.4	1.6	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6
92.5°	16.0	9.8	3.6	9.8	16.0	17.6	24.7	34.3	39.0	34.2	24.6
95°	31.5	20.1	8.7	20.1	31.5	34.3	60.9	96.2	114.0	101.7	77.1
97.5°	35.1	25.1	15.1	25.1	35.1	37.7	82.0	141.0	170.6	162.8	147.3
100°	38.2	29.1	20.0	29.1	38.2	40.5	89.6	155.2	187.9	188.5	189.7
102.5°	41.2	32.7	24.2	32.7	41.2	43.3	93.1	159.6	192.8	202.8	222.5
105°	45.7	38.6	31.4	38.6	45.7	47.5	95.8	160.1	192.3	214.5	258.8
107.5°	52.0	45.3	38.7	45.3	52.0	53.7	96.2	153.0	181.4	212.3	274.1
110°	55.6	49.6	43.6	49.6	55.6	57.1	95.5	146.7	172.3	206.9	275.9



TEST NUMBER: P933834

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	59.9	54.1	48.4	54.1	59.9	61.3	95.5	141.2	164.0	199.4	270.1
115°	66.2	60.9	55.7	60.9	66.2	67.6	96.4	134.9	154.1	188.1	256.2
117.5°	72.5	67.7	62.9	67.7	72.5	73.7	98.2	130.9	147.3	178.0	239.4
120°	76.1	71.6	67.0	71.6	76.1	77.2	99.6	129.5	144.5	172.6	228.8
122.5°	80.2	75.7	71.1	75.7	80.2	81.4	101.7	128.8	142.4	167.6	218.2
125°	85.8	81.6	77.4	81.6	85.8	86.9	104.6	128.3	140.1	161.6	204.6
127.5°	91.0	86.8	82.5	86.8	91.0	92.1	107.4	127.9	138.2	156.6	193.6
130°	94.3	89.8	85.2	89.8	94.3	95.5	109.5	128.2	137.4	153.9	186.7
132.5°	97.2	92.7	88.1	92.7	97.2	98.3	111.2	128.3	136.8	151.5	180.9
135°	100.6	96.4	92.3	96.4	100.6	101.6	113.0	128.2	135.7	148.0	172.6
137.5°	104.8	100.7	96.6	100.7	104.8	105.8	115.7	128.9	135.5	145.9	166.7
140°	107.7	103.9	100.2	103.9	107.7	108.6	117.3	129.1	134.9	143.9	161.9
142.5°	109.8	106.3	102.9	106.3	109.8	110.7	118.8	129.5	134.9	142.8	158.6
145°	113.2	110.1	107.1	110.1	113.2	113.9	120.6	129.5	134.0	140.4	153.4
147.5°	117.2	114.2	111.2	114.2	117.2	117.9	123.3	130.4	134.0	139.1	149.3
150°	119.3	116.6	114.0	116.6	119.3	120.0	124.6	130.9	134.0	138.3	146.9
152.5°	120.8	118.8	116.8	118.8	120.8	121.3	125.5	131.2	134.0	137.6	145.0
155°	124.0	122.4	121.0	122.4	124.0	124.3	127.5	131.8	134.0	136.9	142.8
157.5°	127.0	125.5	124.1	125.5	127.0	127.3	129.5	132.5	134.0	136.3	140.8
160°	128.4	127.3	126.2	127.3	128.4	128.7	130.4	132.8	134.0	135.9	139.8
162.5°	130.0	129.1	128.3	129.1	130.0	130.2	131.4	133.2	134.0	135.6	138.9
165°	132.1	131.3	130.5	131.3	132.1	132.3	132.8	133.6	134.0	135.2	137.5
167.5°	133.4	133.0	132.6	133.0	133.4	133.4	133.9	134.5	134.9	135.6	137.2
170°	134.7	134.4	134.0	134.4	134.7	134.8	134.8	134.9	134.9	135.6	137.2
172.5°	134.9	134.8	134.7	134.8	134.9	134.9	134.9	134.9	134.9	135.5	136.7
175°	135.7	135.7	135.7	135.7	135.7	135.7	135.4	135.1	134.9	135.3	136.1
177.5°	135.7	135.7	135.7	135.7	135.7	135.7	135.5	135.3	135.1	135.4	136.0
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



TEST NUMBER: P933834

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	622.3	620.5	622.8	616.2	622.8	620.5	622.3	626.6	622.8	625.3	627.7
5°	546.0	543.0	533.2	525.2	533.2	543.0	546.0	558.8	564.9	575.9	590.5
7.5°	488.0	485.6	483.2	478.3	483.2	485.6	488.0	491.7	497.8	507.6	518.6
10°	475.2	475.8	479.5	478.9	479.5	475.8	475.2	474.0	472.2	474.0	480.7
12.5°	508.2	513.7	533.8	532.6	533.8	513.7	508.2	483.7	467.3	464.3	465.5
15°	546.0	547.8	552.1	552.7	552.1	547.8	546.0	536.2	486.8	465.5	458.7
17.5°	549.7	550.2	553.3	553.3	553.3	550.2	549.7	545.4	529.0	500.2	462.5
20°	546.6	547.8	554.0	555.2	554.0	547.8	546.6	541.1	532.0	521.6	492.9
22.5°	545.4	547.8	552.7	552.1	552.7	547.8	545.4	536.9	529.0	521.6	510.0
25°	539.3	539.3	539.9	540.5	539.9	539.3	539.3	532.6	516.7	514.9	508.2
27.5°	526.5	527.7	531.3	530.8	531.3	527.7	526.5	524.0	506.9	505.1	500.2
30°	514.9	513.7	510.6	508.2	510.6	513.7	514.9	511.2	494.1	489.3	490.5
32.5°	495.4	492.3	489.3	487.5	489.3	492.3	495.4	494.1	481.3	474.6	475.8
35°	472.2	472.8	472.2	470.4	472.2	472.8	472.2	473.4	465.5	459.4	458.7
37.5°	455.7	456.9	456.3	453.9	456.3	456.9	455.7	454.5	443.5	441.7	442.9
40°	438.6	439.3	438.6	436.8	438.6	439.3	438.6	436.2	421.0	421.5	425.8
42.5°	422.2	421.5	419.7	418.5	419.7	421.5	422.2	418.5	399.0	397.1	405.1
45°	403.2	403.9	400.1	398.3	400.1	403.9	403.2	400.8	380.7	375.8	381.3
47.5°	384.3	384.3	381.3	379.4	381.3	384.3	384.3	381.3	359.9	355.0	358.1
50°	364.2	363.6	359.3	358.7	359.3	363.6	364.2	362.4	339.8	335.6	335.6
52.5°	341.0	341.0	341.7	342.8	341.7	341.0	341.0	341.7	321.5	317.2	316.0
55°	320.9	321.5	325.7	327.0	325.7	321.5	320.9	320.9	302.5	298.3	295.9
57.5°	300.2	300.2	303.2	303.2	303.2	300.2	300.2	298.9	281.3	277.5	276.3
60°	276.3	277.5	280.0	279.4	280.0	277.5	276.3	275.2	259.9	257.4	253.2
62.5°	251.3	252.6	253.2	252.0	253.2	252.6	251.3	247.7	238.5	236.7	231.2
65°	225.1	226.3	227.0	225.7	227.0	226.3	225.1	223.3	216.6	213.5	208.7
67.5°	198.3	197.7	197.0	199.5	197.0	197.7	198.3	195.8	191.6	189.1	182.4
70°	170.8	170.8	170.2	171.5	170.2	170.8	170.8	169.0	166.6	164.7	158.6
72.5°	141.5	140.9	143.4	141.5	143.4	140.9	141.5	140.9	139.7	137.9	131.8
75°	112.9	114.1	112.9	114.7	112.9	114.1	112.9	113.4	112.9	111.6	107.3
77.5°	86.1	87.2	86.1	86.1	86.1	87.2	86.1	86.6	86.6	86.6	83.0
80°	61.0	60.4	60.4	59.8	60.4	60.4	61.0	61.0	61.6	60.4	59.2
82.5°	39.0	38.5	38.5	39.7	38.5	38.5	39.0	39.7	38.5	38.5	38.5
85°	21.4	21.9	20.7	20.7	20.7	21.9	21.4	20.1	21.4	21.4	20.7
87.5°	7.9	7.3	7.3	7.3	7.3	7.3	7.9	8.6	8.6	8.6	9.2
90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	6.2	6.9	5.9
92.5°	17.3	16.6	13.8	11.1	13.8	16.6	17.3	24.6	34.2	39.0	34.3
95°	58.8	56.7	48.4	40.0	48.4	56.7	58.8	77.1	101.7	114.0	96.2
97.5°	135.6	131.6	115.8	100.0	115.8	131.6	135.6	147.3	162.8	170.6	141.0
100°	190.5	185.7	166.9	148.0	166.9	185.7	190.5	189.7	188.5	187.9	155.2
102.5°	237.3	233.2	217.0	200.8	217.0	233.2	237.3	222.5	202.8	192.8	159.6
105°	292.0	289.8	281.2	272.4	281.2	289.8	292.0	258.8	214.5	192.3	160.1
107.5°	320.5	321.0	323.1	325.2	323.1	321.0	320.5	274.1	212.3	181.4	153.0
110°	327.7	330.0	339.0	348.1	339.0	330.0	327.7	275.9	206.9	172.3	146.7



TEST NUMBER: P933834

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	323.1	326.6	340.5	354.4	340.5	326.6	323.1	270.1	199.4	164.0	141.2
115°	307.3	312.1	331.5	350.8	331.5	312.1	307.3	256.2	188.1	154.1	134.9
117.5°	285.5	290.9	312.3	333.7	312.3	290.9	285.5	239.4	178.0	147.3	130.9
120°	270.9	276.1	296.9	317.6	296.9	276.1	270.9	228.8	172.6	144.5	129.5
122.5°	256.2	261.2	281.8	302.4	281.8	261.2	256.2	218.2	167.6	142.4	128.8
125°	236.8	241.5	260.4	279.3	260.4	241.5	236.8	204.6	161.6	140.1	128.3
127.5°	221.2	225.2	241.1	257.1	241.1	225.2	221.2	193.6	156.6	138.2	127.9
130°	211.4	215.0	229.8	244.5	229.8	215.0	211.4	186.7	153.9	137.4	128.2
132.5°	203.0	206.3	219.5	232.7	219.5	206.3	203.0	180.9	151.5	136.8	128.3
135°	191.1	193.9	205.4	216.8	205.4	193.9	191.1	172.6	148.0	135.7	128.2
137.5°	182.4	184.7	194.0	203.4	194.0	184.7	182.4	166.7	145.9	135.5	128.9
140°	175.4	177.6	186.2	194.9	186.2	177.6	175.4	161.9	143.9	134.9	129.1
142.5°	170.5	172.4	179.8	187.3	179.8	172.4	170.5	158.6	142.8	134.9	129.5
145°	163.1	164.6	170.2	175.8	170.2	164.6	163.1	153.4	140.4	134.0	129.5
147.5°	156.9	158.1	162.7	167.5	162.7	158.1	156.9	149.3	139.1	134.0	130.4
150°	153.4	154.3	158.1	161.9	158.1	154.3	153.4	146.9	138.3	134.0	130.9
152.5°	150.5	151.3	154.1	157.0	154.1	151.3	150.5	145.0	137.6	134.0	131.2
155°	147.2	147.6	149.5	151.5	149.5	147.6	147.2	142.8	136.9	134.0	131.8
157.5°	144.2	144.5	145.9	147.3	145.9	144.5	144.2	140.8	136.3	134.0	132.5
160°	142.7	142.9	143.7	144.5	143.7	142.9	142.7	139.8	135.9	134.0	132.8
162.5°	141.4	141.5	142.3	143.0	142.3	141.5	141.4	138.9	135.6	134.0	133.2
165°	139.3	139.4	140.3	141.0	140.3	139.4	139.3	137.5	135.2	134.0	133.6
167.5°	138.4	138.4	138.7	139.1	138.7	138.4	138.4	137.2	135.6	134.9	134.5
170°	138.4	138.4	138.4	138.4	138.4	138.4	138.4	137.2	135.6	134.9	134.9
172.5°	137.6	137.5	137.3	137.0	137.3	137.5	137.6	136.7	135.5	134.9	134.9
175°	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.1	135.3	134.9	135.1
177.5°	136.4	136.4	136.1	135.7	136.1	136.4	136.4	136.0	135.4	135.1	135.3
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



TEST NUMBER: P933834

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	644.8	644.8	644.8	644.8	644.8
2.5°	636.9	639.9	641.7	644.2	650.3
5°	612.5	624.1	627.7	636.9	647.8
7.5°	558.8	594.2	603.9	625.9	643.0
10°	506.9	542.3	559.4	611.3	636.9
12.5°	480.7	501.5	513.0	585.6	628.4
15°	464.3	478.9	487.5	551.5	618.6
17.5°	451.5	461.8	467.9	517.9	605.2
20°	443.5	448.4	453.9	493.6	589.9
22.5°	438.0	435.0	439.3	476.5	569.2
25°	434.4	422.8	427.6	463.0	544.8
27.5°	437.4	411.8	413.6	450.8	519.1
30°	438.0	398.3	399.0	438.0	490.5
32.5°	433.7	384.3	385.0	422.2	458.2
35°	423.3	367.9	367.2	403.9	414.2
37.5°	409.3	350.2	350.2	383.7	366.0
40°	392.2	332.5	334.3	357.5	323.3
42.5°	371.5	313.6	316.0	322.7	291.6
45°	348.9	295.3	297.1	272.7	267.2
47.5°	323.9	276.3	277.0	226.3	259.2
50°	294.1	256.8	254.4	194.0	258.7
52.5°	267.8	235.5	228.1	175.7	234.9
55°	242.1	212.9	197.0	161.6	217.8
57.5°	219.6	183.7	168.4	145.2	214.1
60°	198.8	154.9	143.4	127.5	196.5
62.5°	181.8	133.6	131.2	115.3	178.1
65°	163.5	119.0	118.3	105.0	151.3
67.5°	145.8	109.2	108.6	95.1	115.3
70°	126.9	98.8	97.6	84.8	85.4
72.5°	107.3	87.2	86.1	76.2	70.8
75°	87.9	73.8	73.2	66.5	57.3
77.5°	69.0	58.6	59.8	53.7	42.1
80°	49.4	42.7	43.9	38.5	31.7
82.5°	32.9	28.1	29.3	24.4	21.4
85°	18.3	15.8	16.5	12.8	9.7
87.5°	8.6	7.3	7.3	4.9	3.1
90°	4.0	2.5	2.4	1.6	0.9
92.5°	24.7	17.6	16.0	9.8	3.6
95°	60.9	34.3	31.5	20.1	8.7
97.5°	82.0	37.7	35.1	25.1	15.1
100°	89.6	40.5	38.2	29.1	20.0
102.5°	93.1	43.3	41.2	32.7	24.2
105°	95.8	47.5	45.7	38.6	31.4
107.5°	96.2	53.7	52.0	45.3	38.7
110°	95.5	57.1	55.6	49.6	43.6



TEST NUMBER: P933834

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	95.5	61.3	59.9	54.1	48.4
115°	96.4	67.6	66.2	60.9	55.7
117.5°	98.2	73.7	72.5	67.7	62.9
120°	99.6	77.2	76.1	71.6	67.0
122.5°	101.7	81.4	80.2	75.7	71.1
125°	104.6	86.9	85.8	81.6	77.4
127.5°	107.4	92.1	91.0	86.8	82.5
130°	109.5	95.5	94.3	89.8	85.2
132.5°	111.2	98.3	97.2	92.7	88.1
135°	113.0	101.6	100.6	96.4	92.3
137.5°	115.7	105.8	104.8	100.7	96.6
140°	117.3	108.6	107.7	103.9	100.2
142.5°	118.8	110.7	109.8	106.3	102.9
145°	120.6	113.9	113.2	110.1	107.1
147.5°	123.3	117.9	117.2	114.2	111.2
150°	124.6	120.0	119.3	116.6	114.0
152.5°	125.5	121.3	120.8	118.8	116.8
155°	127.5	124.3	124.0	122.4	121.0
157.5°	129.5	127.3	127.0	125.5	124.1
160°	130.4	128.7	128.4	127.3	126.2
162.5°	131.4	130.2	130.0	129.1	128.3
165°	132.8	132.3	132.1	131.3	130.5
167.5°	133.9	133.4	133.4	133.0	132.6
170°	134.8	134.8	134.7	134.4	134.0
172.5°	134.9	134.9	134.9	134.8	134.7
175°	135.4	135.7	135.7	135.7	135.7
177.5°	135.5	135.7	135.7	135.7	135.7
180°	135.7	135.7	135.7	135.7	135.7



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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	12.33	13.35	13.14	14.19	15.22	15.13	16.15	15.94	16.98	18.01
	3H	12.82	13.74	13.64	14.58	15.64	16.48	17.39	17.30	18.24	19.29
	4H	13.02	13.88	13.86	14.73	15.80	16.92	17.79	17.76	18.64	19.71
	6H	13.15	13.94	14.00	14.80	15.89	17.21	18.00	18.06	18.86	19.95
	8H	13.15	13.91	14.01	14.79	15.87	17.28	18.04	18.14	18.92	20.00
	12H	13.13	13.85	14.00	14.72	15.83	17.32	18.04	18.19	18.91	20.02
4H	2H	13.38	14.24	14.22	15.09	16.16	15.56	16.42	16.41	17.28	18.35
	3H	14.42	15.14	15.27	16.02	17.11	17.07	17.79	17.93	18.67	19.76
	4H	14.70	15.36	15.57	16.24	17.35	17.60	18.25	18.47	19.13	20.25
	6H	14.83	15.40	15.72	16.31	17.42	17.96	18.53	18.85	19.44	20.55
	8H	14.84	15.37	15.73	16.27	17.40	18.07	18.60	18.96	19.50	20.63
	12H	14.82	15.30	15.73	16.21	17.35	18.13	18.61	19.04	19.52	20.66
8H	4H	15.16	15.69	16.05	16.59	17.72	17.74	18.27	18.62	19.17	20.29
	6H	15.43	15.87	16.35	16.81	17.94	18.17	18.61	19.09	19.55	20.68
	8H	15.47	15.86	16.40	16.80	17.94	18.32	18.71	19.25	19.64	20.79
	12H	15.46	15.81	16.39	16.73	17.93	18.42	18.76	19.35	19.69	20.88
12H	4H	15.17	15.65	16.08	16.57	17.70	17.71	18.19	18.62	19.10	20.24
	6H	15.49	15.88	16.42	16.81	17.96	18.17	18.56	19.10	19.49	20.64
	8H	15.56	15.91	16.49	16.83	18.03	18.33	18.68	19.26	19.60	20.80