

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: P934332

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934332
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-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: -

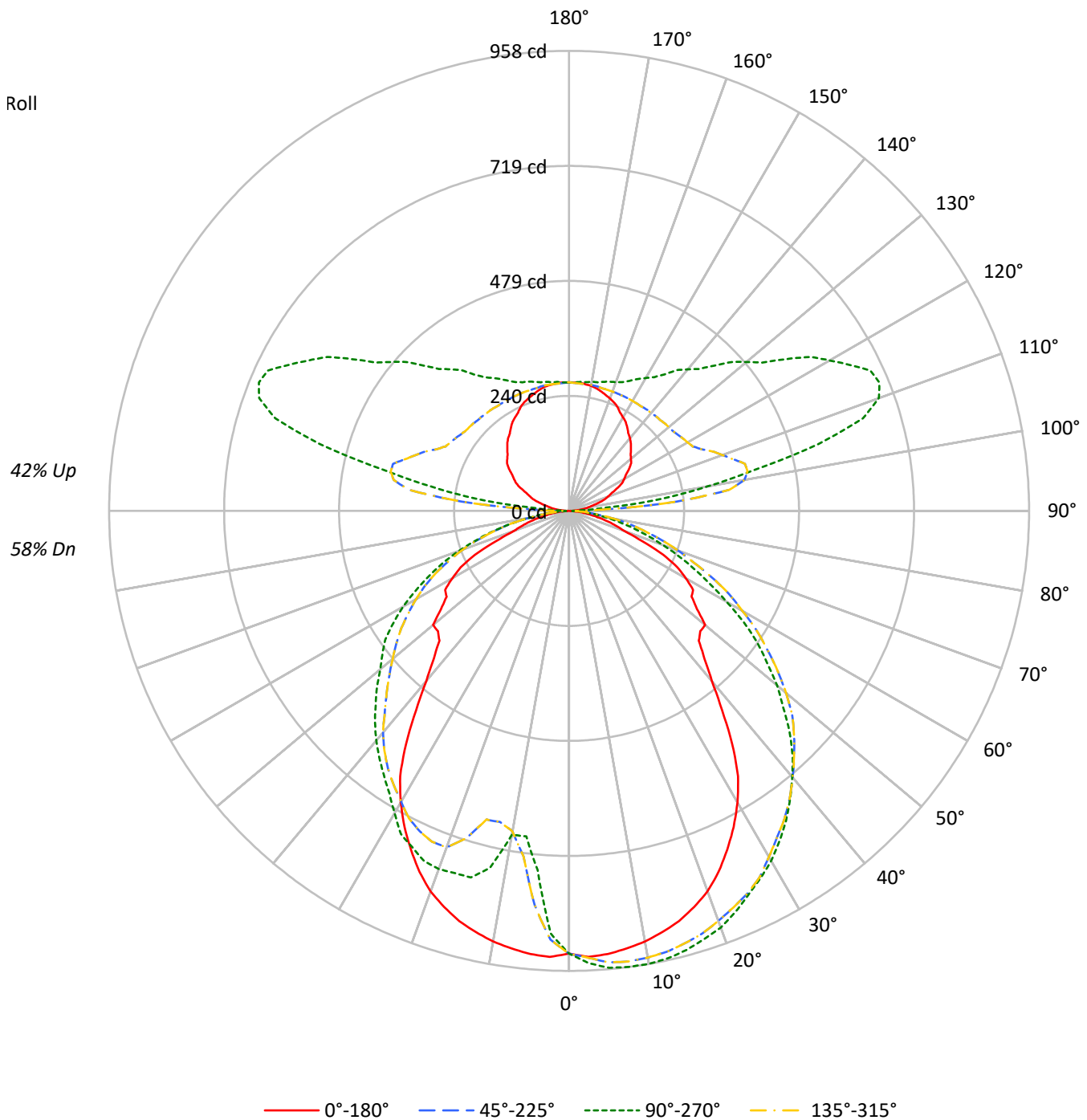
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4127.3 lumens
Efficiency: N/A
Efficacy: 113.4 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: General Diffuse

Input Watts (W): 36.4
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	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

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	2.0
10°-20°	236.3	5.7
20°-30°	365.2	8.8
30°-40°	436.0	10.6
40°-50°	438.6	10.6
50°-60°	381.6	9.2
60°-70°	270.6	6.6
70°-80°	143.1	3.5
80°-90°	36.7	0.9
90°-100°	130.5	3.2
100°-110°	343.2	8.3
110°-120°	355.9	8.6
120°-130°	285.4	6.9
130°-140°	224.0	5.4
140°-150°	171.9	4.2
150°-160°	123.8	3.0
160°-170°	75.7	1.8
170°-180°	25.6	0.6
0°-30°	684.7	16.6
0°-40°	1120.7	27.2
0°-60°	1940.9	47.0
0°-90°	2391.2	57.9
90°-120°	829.6	20.1
90°-150°	1510.9	36.6
90°-180°	1736.0	42.1
0°-180°	4127.3	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°	2	7	2	7	2	2
95°	17	79	17	79	17	19
105°	62	537	62	537	62	66
115°	110	692	110	692	110	108
125°	153	551	153	551	153	136
135°	182	428	182	428	182	141
145°	211	347	211	347	211	132
155°	239	299	239	299	239	110
165°	258	278	258	278	258	73
175°	268	270	268	270	268	25
180°	268	268	268	268	268	



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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°	1.8	3.2	4.7	5.1	7.9	11.8	13.7	12.1	9.1	6.8	6.8
92.5°	7.2	19.4	31.7	34.7	48.7	67.5	76.9	67.4	48.4	34.2	32.8
95°	17.3	39.6	62.0	67.6	120.0	189.8	224.8	200.6	152.2	115.9	111.8
97.5°	29.8	49.5	69.2	74.2	161.6	278.2	336.4	321.2	290.6	267.6	259.8
100°	39.5	57.4	75.3	79.8	176.8	306.1	370.8	371.9	374.2	375.8	366.5
102.5°	47.8	64.5	81.2	85.4	183.7	314.9	380.5	400.0	439.0	468.2	460.2
105°	61.8	76.0	90.1	93.7	188.9	315.9	379.4	423.1	510.5	576.1	571.8
107.5°	76.2	89.4	102.6	105.9	189.8	301.9	357.9	418.8	540.7	632.1	633.2
110°	85.9	97.8	109.7	112.7	188.4	289.4	339.9	408.0	544.3	646.5	651.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	95.4	106.7	118.1	121.0	188.4	278.5	323.5	393.3	532.7	637.4	644.3
115°	109.8	120.3	130.7	133.3	190.2	266.0	303.9	371.1	505.4	606.2	615.7
117.5°	124.0	133.5	143.0	145.4	193.8	258.2	290.5	351.1	472.3	563.2	573.8
120°	132.3	141.3	150.2	152.4	196.6	255.6	285.1	340.4	451.3	534.4	544.7
122.5°	140.4	149.5	158.4	160.7	200.7	254.2	280.9	330.8	430.6	505.4	515.5
125°	152.8	161.0	169.2	171.3	206.3	253.1	276.4	318.8	403.6	467.1	476.5
127.5°	162.8	171.2	179.5	181.6	211.9	252.5	272.7	309.0	381.8	436.4	444.2
130°	168.2	177.2	186.1	188.4	216.0	252.8	271.2	303.6	368.4	417.0	424.2
132.5°	173.8	182.8	191.7	193.9	219.3	253.1	270.0	298.9	356.9	400.4	407.0
135°	182.1	190.2	198.4	200.4	222.9	252.8	267.8	292.0	340.6	377.1	382.6
137.5°	190.5	198.6	206.7	208.7	228.3	254.4	267.5	287.9	329.0	359.8	364.4
140°	197.5	204.9	212.4	214.3	231.5	254.6	266.1	283.9	319.4	346.0	350.3
142.5°	202.9	209.8	216.6	218.4	234.3	255.5	266.1	281.8	312.9	336.3	339.9
145°	211.2	217.1	223.2	224.6	237.9	255.6	264.4	277.1	302.6	321.7	324.5
147.5°	219.5	225.3	231.1	232.6	243.2	257.3	264.4	274.4	294.5	309.5	311.8
150°	224.8	230.0	235.4	236.7	245.9	258.2	264.4	272.9	289.8	302.5	304.4
152.5°	230.4	234.4	238.4	239.4	247.7	258.8	264.4	271.6	286.1	296.9	298.3
155°	238.7	241.6	244.6	245.3	251.7	260.1	264.4	270.2	281.7	290.3	291.3
157.5°	244.8	247.7	250.5	251.2	255.6	261.4	264.4	268.8	277.8	284.5	285.2
160°	249.0	251.1	253.4	253.9	257.4	262.0	264.4	268.2	275.9	281.7	282.0
162.5°	253.1	254.7	256.4	256.8	259.3	262.7	264.4	267.6	274.1	279.0	279.3
165°	257.6	259.1	260.7	261.0	262.1	263.6	264.4	266.7	271.3	274.8	275.1
167.5°	261.7	262.4	263.1	263.3	264.2	265.5	266.1	267.7	270.8	273.0	273.2
170°	264.4	265.1	265.8	266.0	266.1	266.1	266.1	267.7	270.8	273.0	273.0
172.5°	265.8	266.0	266.1	266.1	266.1	266.1	266.1	267.4	269.7	271.6	271.4
175°	267.8	267.8	267.8	267.8	267.3	266.5	266.1	266.9	268.5	269.6	269.6
177.5°	267.8	267.8	267.8	267.8	267.4	266.8	266.6	267.2	268.4	269.3	269.1
180°	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8



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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°	6.8	6.8	6.8	6.8	6.8	9.1	12.1	13.7	11.8	7.9	5.1
92.5°	27.4	21.9	27.4	32.8	34.2	48.4	67.4	76.9	67.5	48.7	34.7
95°	95.3	78.9	95.3	111.8	115.9	152.2	200.6	224.8	189.8	120.0	67.6
97.5°	228.5	197.2	228.5	259.8	267.6	290.6	321.2	336.4	278.2	161.6	74.2
100°	329.2	291.9	329.2	366.5	375.8	374.2	371.9	370.8	306.1	176.8	79.8
102.5°	428.3	396.3	428.3	460.2	468.2	439.0	400.0	380.5	314.9	183.7	85.4
105°	554.6	537.4	554.6	571.8	576.1	510.5	423.1	379.4	315.9	188.9	93.7
107.5°	637.3	641.5	637.3	633.2	632.1	540.7	418.8	357.9	301.9	189.8	105.9
110°	668.9	686.7	668.9	651.0	646.5	544.3	408.0	339.9	289.4	188.4	112.7



TEST NUMBER: P934332

CATALOG NUMBER: SQ4-FA-050U-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°	671.7	699.2	671.7	644.3	637.4	532.7	393.3	323.5	278.5	188.4	121.0
115°	653.9	692.0	653.9	615.7	606.2	505.4	371.1	303.9	266.0	190.2	133.3
117.5°	616.1	658.4	616.1	573.8	563.2	472.3	351.1	290.5	258.2	193.8	145.4
120°	585.7	626.7	585.7	544.7	534.4	451.3	340.4	285.1	255.6	196.6	152.4
122.5°	556.1	596.6	556.1	515.5	505.4	430.6	330.8	280.9	254.2	200.7	160.7
125°	513.7	551.0	513.7	476.5	467.1	403.6	318.8	276.4	253.1	206.3	171.3
127.5°	475.7	507.2	475.7	444.2	436.4	381.8	309.0	272.7	252.5	211.9	181.6
130°	453.4	482.4	453.4	424.2	417.0	368.4	303.6	271.2	252.8	216.0	188.4
132.5°	433.0	459.0	433.0	407.0	400.4	356.9	298.9	270.0	253.1	219.3	193.9
135°	405.1	427.6	405.1	382.6	377.1	340.6	292.0	267.8	252.8	222.9	200.4
137.5°	382.7	401.1	382.7	364.4	359.8	329.0	287.9	267.5	254.4	228.3	208.7
140°	367.5	384.7	367.5	350.3	346.0	319.4	283.9	266.1	254.6	231.5	214.3
142.5°	354.7	369.6	354.7	339.9	336.3	312.9	281.8	266.1	255.5	234.3	218.4
145°	335.7	346.9	335.7	324.5	321.7	302.6	277.1	264.4	255.6	237.9	224.6
147.5°	321.1	330.3	321.1	311.8	309.5	294.5	274.4	264.4	257.3	243.2	232.6
150°	311.9	319.4	311.9	304.4	302.5	289.8	272.9	264.4	258.2	245.9	236.7
152.5°	304.0	309.7	304.0	298.3	296.9	286.1	271.6	264.4	258.8	247.7	239.4
155°	295.0	298.8	295.0	291.3	290.3	281.7	270.2	264.4	260.1	251.7	245.3
157.5°	287.9	290.5	287.9	285.2	284.5	277.8	268.8	264.4	261.4	255.6	251.2
160°	283.6	285.1	283.6	282.0	281.7	275.9	268.2	264.4	262.0	257.4	253.9
162.5°	280.8	282.2	280.8	279.3	279.0	274.1	267.6	264.4	262.7	259.3	256.8
165°	276.7	278.3	276.7	275.1	274.8	271.3	266.7	264.4	263.6	262.1	261.0
167.5°	273.8	274.4	273.8	273.2	273.0	270.8	267.7	266.1	265.5	264.2	263.3
170°	273.0	273.0	273.0	273.0	273.0	270.8	267.7	266.1	266.1	266.1	266.0
172.5°	270.9	270.3	270.9	271.4	271.6	269.7	267.4	266.1	266.1	266.1	266.1
175°	269.6	269.6	269.6	269.6	269.6	268.5	266.9	266.1	266.5	267.3	267.8
177.5°	268.5	267.8	268.5	269.1	269.3	268.4	267.2	266.6	266.8	267.4	267.8
180°	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8



TEST NUMBER: P934332

CATALOG NUMBER: SQ4-FA-050U-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°	4.7	3.2	1.8	3.2	4.7	5.1	7.9	11.8	13.7	12.1	9.1
92.5°	31.7	19.4	7.2	19.4	31.7	34.7	48.7	67.5	76.9	67.4	48.4
95°	62.0	39.6	17.3	39.6	62.0	67.6	120.0	189.8	224.8	200.6	152.2
97.5°	69.2	49.5	29.8	49.5	69.2	74.2	161.6	278.2	336.4	321.2	290.6
100°	75.3	57.4	39.5	57.4	75.3	79.8	176.8	306.1	370.8	371.9	374.2
102.5°	81.2	64.5	47.8	64.5	81.2	85.4	183.7	314.9	380.5	400.0	439.0
105°	90.1	76.0	61.8	76.0	90.1	93.7	188.9	315.9	379.4	423.1	510.5
107.5°	102.6	89.4	76.2	89.4	102.6	105.9	189.8	301.9	357.9	418.8	540.7
110°	109.7	97.8	85.9	97.8	109.7	112.7	188.4	289.4	339.9	408.0	544.3



TEST NUMBER: P934332

CATALOG NUMBER: SQ4-FA-050U-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°	118.1	106.7	95.4	106.7	118.1	121.0	188.4	278.5	323.5	393.3	532.7
115°	130.7	120.3	109.8	120.3	130.7	133.3	190.2	266.0	303.9	371.1	505.4
117.5°	143.0	133.5	124.0	133.5	143.0	145.4	193.8	258.2	290.5	351.1	472.3
120°	150.2	141.3	132.3	141.3	150.2	152.4	196.6	255.6	285.1	340.4	451.3
122.5°	158.4	149.5	140.4	149.5	158.4	160.7	200.7	254.2	280.9	330.8	430.6
125°	169.2	161.0	152.8	161.0	169.2	171.3	206.3	253.1	276.4	318.8	403.6
127.5°	179.5	171.2	162.8	171.2	179.5	181.6	211.9	252.5	272.7	309.0	381.8
130°	186.1	177.2	168.2	177.2	186.1	188.4	216.0	252.8	271.2	303.6	368.4
132.5°	191.7	182.8	173.8	182.8	191.7	193.9	219.3	253.1	270.0	298.9	356.9
135°	198.4	190.2	182.1	190.2	198.4	200.4	222.9	252.8	267.8	292.0	340.6
137.5°	206.7	198.6	190.5	198.6	206.7	208.7	228.3	254.4	267.5	287.9	329.0
140°	212.4	204.9	197.5	204.9	212.4	214.3	231.5	254.6	266.1	283.9	319.4
142.5°	216.6	209.8	202.9	209.8	216.6	218.4	234.3	255.5	266.1	281.8	312.9
145°	223.2	217.1	211.2	217.1	223.2	224.6	237.9	255.6	264.4	277.1	302.6
147.5°	231.1	225.3	219.5	225.3	231.1	232.6	243.2	257.3	264.4	274.4	294.5
150°	235.4	230.0	224.8	230.0	235.4	236.7	245.9	258.2	264.4	272.9	289.8
152.5°	238.4	234.4	230.4	234.4	238.4	239.4	247.7	258.8	264.4	271.6	286.1
155°	244.6	241.6	238.7	241.6	244.6	245.3	251.7	260.1	264.4	270.2	281.7
157.5°	250.5	247.7	244.8	247.7	250.5	251.2	255.6	261.4	264.4	268.8	277.8
160°	253.4	251.1	249.0	251.1	253.4	253.9	257.4	262.0	264.4	268.2	275.9
162.5°	256.4	254.7	253.1	254.7	256.4	256.8	259.3	262.7	264.4	267.6	274.1
165°	260.7	259.1	257.6	259.1	260.7	261.0	262.1	263.6	264.4	266.7	271.3
167.5°	263.1	262.4	261.7	262.4	263.1	263.3	264.2	265.5	266.1	267.7	270.8
170°	265.8	265.1	264.4	265.1	265.8	266.0	266.1	266.1	266.1	267.7	270.8
172.5°	266.1	266.0	265.8	266.0	266.1	266.1	266.1	266.1	266.1	267.4	269.7
175°	267.8	267.8	267.8	267.8	267.8	267.8	267.3	266.5	266.1	266.9	268.5
177.5°	267.8	267.8	267.8	267.8	267.8	267.8	267.4	266.8	266.6	267.2	268.4
180°	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8



TEST NUMBER: P934332

CATALOG NUMBER: SQ4-FA-050U-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°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	12.1	13.7	11.8
92.5°	34.2	32.8	27.4	21.9	27.4	32.8	34.2	48.4	67.4	76.9	67.5
95°	115.9	111.8	95.3	78.9	95.3	111.8	115.9	152.2	200.6	224.8	189.8
97.5°	267.6	259.8	228.5	197.2	228.5	259.8	267.6	290.6	321.2	336.4	278.2
100°	375.8	366.5	329.2	291.9	329.2	366.5	375.8	374.2	371.9	370.8	306.1
102.5°	468.2	460.2	428.3	396.3	428.3	460.2	468.2	439.0	400.0	380.5	314.9
105°	576.1	571.8	554.6	537.4	554.6	571.8	576.1	510.5	423.1	379.4	315.9
107.5°	632.1	633.2	637.3	641.5	637.3	633.2	632.1	540.7	418.8	357.9	301.9
110°	646.5	651.0	668.9	686.7	668.9	651.0	646.5	544.3	408.0	339.9	289.4



TEST NUMBER: P934332

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	637.4	644.3	671.7	699.2	671.7	644.3	637.4	532.7	393.3	323.5	278.5
115°	606.2	615.7	653.9	692.0	653.9	615.7	606.2	505.4	371.1	303.9	266.0
117.5°	563.2	573.8	616.1	658.4	616.1	573.8	563.2	472.3	351.1	290.5	258.2
120°	534.4	544.7	585.7	626.7	585.7	544.7	534.4	451.3	340.4	285.1	255.6
122.5°	505.4	515.5	556.1	596.6	556.1	515.5	505.4	430.6	330.8	280.9	254.2
125°	467.1	476.5	513.7	551.0	513.7	476.5	467.1	403.6	318.8	276.4	253.1
127.5°	436.4	444.2	475.7	507.2	475.7	444.2	436.4	381.8	309.0	272.7	252.5
130°	417.0	424.2	453.4	482.4	453.4	424.2	417.0	368.4	303.6	271.2	252.8
132.5°	400.4	407.0	433.0	459.0	433.0	407.0	400.4	356.9	298.9	270.0	253.1
135°	377.1	382.6	405.1	427.6	405.1	382.6	377.1	340.6	292.0	267.8	252.8
137.5°	359.8	364.4	382.7	401.1	382.7	364.4	359.8	329.0	287.9	267.5	254.4
140°	346.0	350.3	367.5	384.7	367.5	350.3	346.0	319.4	283.9	266.1	254.6
142.5°	336.3	339.9	354.7	369.6	354.7	339.9	336.3	312.9	281.8	266.1	255.5
145°	321.7	324.5	335.7	346.9	335.7	324.5	321.7	302.6	277.1	264.4	255.6
147.5°	309.5	311.8	321.1	330.3	321.1	311.8	309.5	294.5	274.4	264.4	257.3
150°	302.5	304.4	311.9	319.4	311.9	304.4	302.5	289.8	272.9	264.4	258.2
152.5°	296.9	298.3	304.0	309.7	304.0	298.3	296.9	286.1	271.6	264.4	258.8
155°	290.3	291.3	295.0	298.8	295.0	291.3	290.3	281.7	270.2	264.4	260.1
157.5°	284.5	285.2	287.9	290.5	287.9	285.2	284.5	277.8	268.8	264.4	261.4
160°	281.7	282.0	283.6	285.1	283.6	282.0	281.7	275.9	268.2	264.4	262.0
162.5°	279.0	279.3	280.8	282.2	280.8	279.3	279.0	274.1	267.6	264.4	262.7
165°	274.8	275.1	276.7	278.3	276.7	275.1	274.8	271.3	266.7	264.4	263.6
167.5°	273.0	273.2	273.8	274.4	273.8	273.2	273.0	270.8	267.7	266.1	265.5
170°	273.0	273.0	273.0	273.0	273.0	273.0	273.0	270.8	267.7	266.1	266.1
172.5°	271.6	271.4	270.9	270.3	270.9	271.4	271.6	269.7	267.4	266.1	266.1
175°	269.6	269.6	269.6	269.6	269.6	269.6	269.6	268.5	266.9	266.1	266.5
177.5°	269.3	269.1	268.5	267.8	268.5	269.1	269.3	268.4	267.2	266.6	266.8
180°	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8



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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°	7.9	5.1	4.7	3.2	1.8
92.5°	48.7	34.7	31.7	19.4	7.2
95°	120.0	67.6	62.0	39.6	17.3
97.5°	161.6	74.2	69.2	49.5	29.8
100°	176.8	79.8	75.3	57.4	39.5
102.5°	183.7	85.4	81.2	64.5	47.8
105°	188.9	93.7	90.1	76.0	61.8
107.5°	189.8	105.9	102.6	89.4	76.2
110°	188.4	112.7	109.7	97.8	85.9



TEST NUMBER: P934332

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	188.4	121.0	118.1	106.7	95.4
115°	190.2	133.3	130.7	120.3	109.8
117.5°	193.8	145.4	143.0	133.5	124.0
120°	196.6	152.4	150.2	141.3	132.3
122.5°	200.7	160.7	158.4	149.5	140.4
125°	206.3	171.3	169.2	161.0	152.8
127.5°	211.9	181.6	179.5	171.2	162.8
130°	216.0	188.4	186.1	177.2	168.2
132.5°	219.3	193.9	191.7	182.8	173.8
135°	222.9	200.4	198.4	190.2	182.1
137.5°	228.3	208.7	206.7	198.6	190.5
140°	231.5	214.3	212.4	204.9	197.5
142.5°	234.3	218.4	216.6	209.8	202.9
145°	237.9	224.6	223.2	217.1	211.2
147.5°	243.2	232.6	231.1	225.3	219.5
150°	245.9	236.7	235.4	230.0	224.8
152.5°	247.7	239.4	238.4	234.4	230.4
155°	251.7	245.3	244.6	241.6	238.7
157.5°	255.6	251.2	250.5	247.7	244.8
160°	257.4	253.9	253.4	251.1	249.0
162.5°	259.3	256.8	256.4	254.7	253.1
165°	262.1	261.0	260.7	259.1	257.6
167.5°	264.2	263.3	263.1	262.4	261.7
170°	266.1	266.0	265.8	265.1	264.4
172.5°	266.1	266.1	266.1	266.0	265.8
175°	267.3	267.8	267.8	267.8	267.8
177.5°	267.4	267.8	267.8	267.8	267.8
180°	267.8	267.8	267.8	267.8	267.8



TEST NUMBER: P934332

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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	12.95	13.89	13.84	14.80	15.95	15.75	16.69	16.64	17.59	18.75
	3H	13.44	14.28	14.33	15.19	16.37	17.09	17.93	17.99	18.85	20.03
	4H	13.63	14.43	14.54	15.35	16.53	17.53	18.33	18.45	19.25	20.44
	6H	13.75	14.49	14.68	15.41	16.61	17.81	18.55	18.74	19.47	20.68
	8H	13.76	14.45	14.69	15.40	16.60	17.89	18.58	18.82	19.53	20.73
	12H	13.73	14.39	14.67	15.33	16.56	17.92	18.59	18.86	19.53	20.75
4H	2H	13.99	14.78	14.91	15.70	16.89	16.17	16.97	17.09	17.89	19.07
	3H	15.02	15.68	15.95	16.63	17.84	17.67	18.34	18.60	19.29	20.49
	4H	15.30	15.90	16.24	16.85	18.08	18.20	18.80	19.14	19.75	20.98
	6H	15.43	15.95	16.38	16.92	18.15	18.56	19.08	19.51	20.05	21.28
	8H	15.44	15.92	16.39	16.89	18.13	18.66	19.15	19.62	20.11	21.36
	12H	15.41	15.85	16.38	16.83	18.08	18.72	19.16	19.69	20.14	21.39
8H	4H	15.76	16.24	16.71	17.21	18.45	18.33	18.82	19.29	19.78	21.02
	6H	16.02	16.42	17.00	17.43	18.67	18.76	19.16	19.74	20.17	21.41
	8H	16.06	16.42	17.05	17.41	18.67	18.91	19.26	19.90	20.26	21.52
	12H	16.05	16.36	17.04	17.35	18.66	19.01	19.32	20.00	20.31	21.61
12H	4H	15.76	16.20	16.74	17.18	18.43	18.30	18.74	19.27	19.72	20.97
	6H	16.08	16.44	17.07	17.43	18.69	18.76	19.12	19.75	20.11	21.37
	8H	16.15	16.46	17.14	17.45	18.76	18.92	19.23	19.91	20.22	21.53