

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: P934641

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934641
REPORT IS A COMBINATION OF REPORTS P933707 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-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

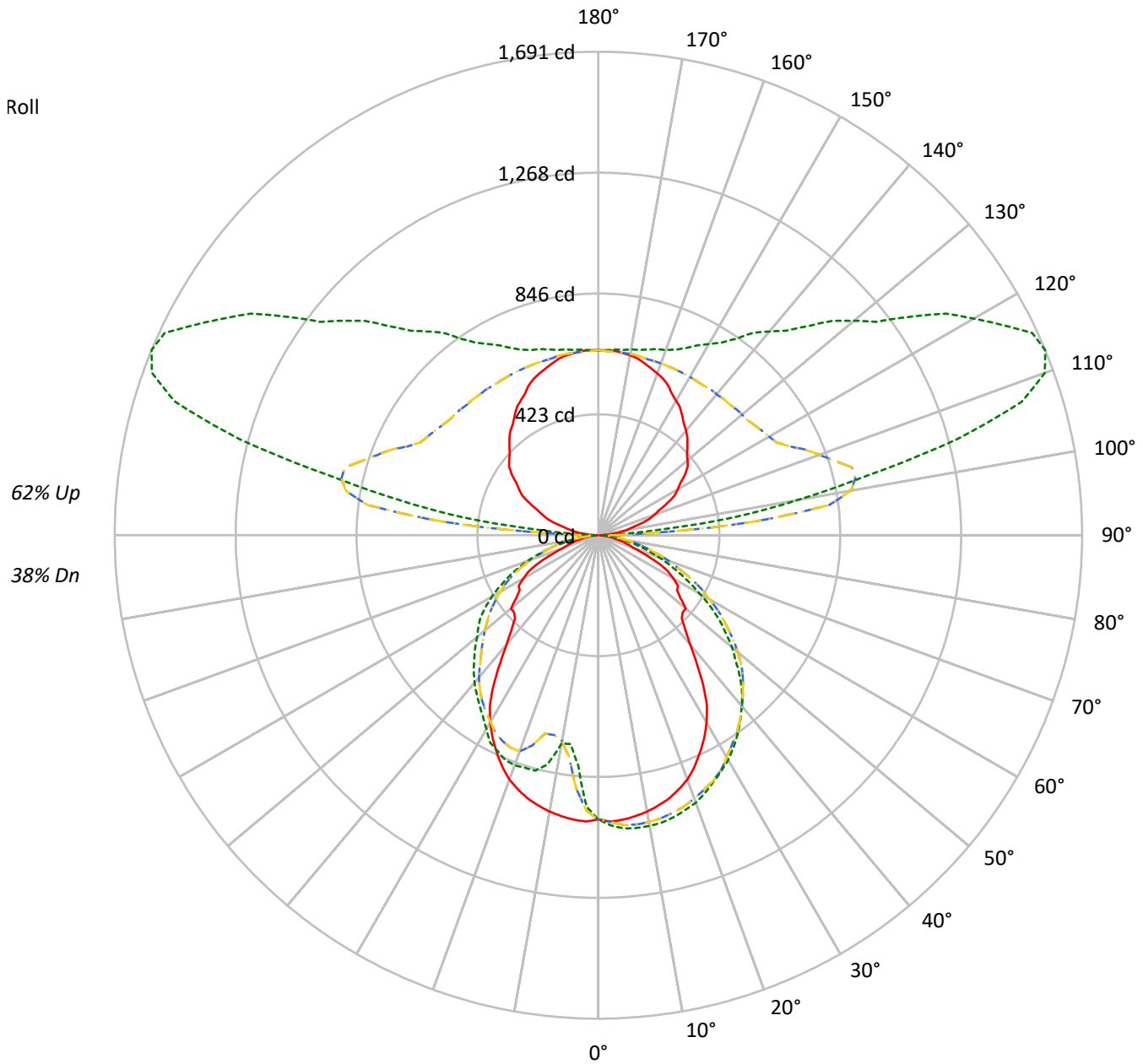
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6777.6 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 51.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P934641
CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-5000K

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	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6148	6148	6148	6148
5°	6191	6206	6191	4880
10°	6148	6114	6148	4371
15°	6079	5981	6079	4994
20°	5950	5824	5950	5004
25°	5687	5596	5687	4899
30°	5349	5406	5349	4666
35°	4766	5165	4766	4410
40°	3969	4882	3969	4217
45°	3544	4550	3544	3994
50°	3762	4156	3762	3771
55°	3536	3730	3536	3642
60°	3641	3168	3641	3335
65°	3296	2620	3296	2928
70°	2276	2087	2276	2454
75°	1989	1543	1989	1848
80°	1592	1020	1592	1111
85°	894	540	894	460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5435 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.3
10°-20°	254.7	3.8
20°-30°	393.8	5.8
30°-40°	470.1	6.9
40°-50°	472.8	7.0
50°-60°	411.4	6.1
60°-70°	291.7	4.3
70°-80°	154.3	2.3
80°-90°	40.9	0.6
90°-100°	315.7	4.7
100°-110°	829.9	12.2
110°-120°	860.5	12.7
120°-130°	690.3	10.2
130°-140°	541.6	8.0
140°-150°	415.7	6.1
150°-160°	299.4	4.4
160°-170°	183.2	2.7
170°-180°	61.9	0.9
0°-30°	738.2	10.9
0°-40°	1208.3	17.8
0°-60°	2092.5	30.9
0°-90°	2579.5	38.1
90°-120°	2006.1	29.6
90°-150°	3653.7	53.9
90°-180°	4198.0	61.9
0°-180°	6777.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	994	994	994	994	994	
5°	998	1030	998	810	998	95
15°	954	1020	954	852	954	268
25°	840	952	840	833	840	386
35°	638	849	638	725	638	395
45°	412	700	412	614	412	330
55°	336	516	336	504	336	308
65°	233	311	233	348	233	223
75°	88	148	88	177	88	93
85°	15	38	15	32	15	20
90°	4	16	4	16	4	4
95°	42	191	42	191	42	46
105°	150	1300	150	1300	150	159
115°	266	1673	266	1673	266	262
125°	369	1333	369	1333	369	328
135°	440	1034	440	1034	440	341
145°	511	839	511	839	511	320
155°	577	722	577	722	577	265
165°	623	673	623	673	623	176
175°	648	652	648	652	648	61
180°	648	648	648	648	648	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	1002.4	1002.4	1008.0	1009.9	1009.9	1007.1	1004.2	1007.1	1015.6	1018.4	1017.4
5°	998.5	1006.1	1016.5	1018.4	1020.2	1019.3	1017.4	1019.3	1028.6	1030.6	1031.5
7.5°	991.1	1005.2	1018.4	1021.2	1024.0	1021.2	1020.2	1022.1	1031.5	1033.4	1033.4
10°	981.6	1001.4	1016.5	1018.4	1021.2	1018.4	1018.4	1022.1	1031.5	1033.4	1034.3
12.5°	968.5	995.7	1009.9	1011.7	1015.6	1014.6	1013.6	1017.4	1026.8	1028.6	1028.6
15°	953.5	985.5	998.5	1000.5	1007.1	1005.2	1005.2	1008.9	1019.3	1022.1	1021.2
17.5°	932.7	972.3	987.3	990.1	994.8	993.9	994.8	998.5	1008.0	1009.9	1010.8
20°	909.3	954.4	972.3	975.1	979.8	979.8	979.8	984.5	993.9	997.6	997.6
22.5°	877.3	935.5	954.4	956.3	961.9	961.9	963.8	970.4	978.8	979.8	979.8
25°	839.6	914.9	930.9	936.6	942.2	945.0	947.8	951.6	954.4	953.5	954.4
27.5°	800.2	888.5	909.3	913.0	920.6	923.4	927.1	928.1	929.0	931.8	929.9
30°	756.0	851.9	882.9	886.7	898.9	900.8	897.0	898.9	903.6	905.5	907.4
32.5°	706.2	797.4	855.6	864.1	875.4	869.7	868.8	871.6	879.2	879.2	881.1
35°	638.5	755.1	830.3	837.8	846.3	839.6	843.5	844.4	849.1	851.9	851.0
37.5°	564.2	718.4	803.9	809.5	816.2	807.7	813.4	816.2	819.9	818.1	818.1
40°	498.4	661.0	772.9	776.6	782.3	775.7	781.4	783.3	785.2	783.3	782.3
42.5°	449.5	598.0	740.0	744.7	740.9	745.6	747.6	751.3	748.5	744.7	744.7
45°	411.8	581.1	704.3	709.9	704.3	711.8	714.6	714.6	706.2	704.3	703.4
47.5°	399.6	547.3	668.6	668.6	665.7	675.1	679.8	673.3	664.8	662.0	662.0
50°	398.7	509.6	619.6	615.9	629.1	640.4	635.6	629.1	622.5	612.1	612.1
52.5°	362.0	463.5	556.6	570.7	591.5	598.0	590.5	583.9	572.6	567.9	564.2
55°	335.7	415.6	499.3	527.5	549.1	557.6	543.5	536.9	520.0	517.2	515.3
57.5°	330.0	346.0	446.6	482.4	508.7	507.7	499.3	487.1	473.0	470.2	469.2
60°	302.8	250.1	390.2	432.6	459.8	457.0	449.5	438.2	425.0	423.1	421.3
62.5°	274.5	181.5	326.3	374.3	412.8	411.8	405.3	388.4	378.9	374.3	370.5
65°	233.2	152.4	232.3	311.3	366.7	368.6	354.5	342.3	331.9	326.3	325.4
67.5°	177.7	124.1	157.0	259.6	322.6	320.6	302.8	297.1	284.0	281.2	275.6
70°	131.6	82.7	109.1	210.6	279.3	274.5	260.5	253.9	241.6	235.1	231.3
72.5°	109.1	66.7	79.9	163.6	235.1	229.5	217.2	209.7	199.4	193.7	189.9
75°	88.4	70.5	61.1	121.3	190.9	187.1	175.8	168.3	159.8	152.4	153.3
77.5°	64.9	65.8	48.9	89.4	151.4	145.7	139.2	129.7	126.0	118.5	118.5
80°	48.9	51.7	36.6	61.1	109.1	109.1	103.5	96.8	90.3	86.6	86.6
82.5°	32.9	32.9	27.3	38.5	74.3	71.5	67.7	65.8	62.1	60.2	60.2
85°	15.0	18.8	16.9	23.5	40.5	42.3	42.3	40.5	39.5	37.6	38.5
87.5°	4.7	8.5	10.4	13.2	20.7	21.6	22.5	22.5	22.5	23.5	23.5
90°	4.3	7.8	11.3	12.2	19.1	28.3	33.0	29.3	22.1	16.5	16.5
92.5°	17.4	46.9	76.5	83.8	117.9	163.3	186.0	163.0	117.0	82.5	79.3
95°	41.7	95.8	149.8	163.4	290.1	459.2	543.7	485.2	368.1	280.3	270.4
97.5°	72.2	119.8	167.5	179.5	390.9	672.7	813.7	776.6	702.7	647.2	628.2
100°	95.6	138.9	182.2	193.0	427.5	740.3	896.7	899.4	904.8	908.8	886.3
102.5°	115.6	156.0	196.4	206.5	444.4	761.5	920.1	967.2	1061.5	1132.2	1112.9
105°	149.6	183.8	218.0	226.5	456.8	763.9	917.5	1023.1	1234.5	1393.0	1382.6
107.5°	184.3	216.2	248.1	256.0	459.1	729.9	865.4	1012.8	1307.6	1528.6	1531.1
110°	207.8	236.6	265.3	272.5	455.6	699.8	821.9	986.7	1316.3	1563.4	1574.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	230.8	258.2	285.6	292.5	455.8	673.5	782.3	951.0	1288.2	1541.1	1557.8
115°	265.5	290.9	316.1	322.5	460.0	643.3	735.0	897.4	1222.3	1466.0	1489.0
117.5°	299.9	322.8	345.8	351.6	468.6	624.4	702.3	849.0	1142.2	1362.1	1387.7
120°	319.9	341.5	363.1	368.6	475.5	618.0	689.3	823.3	1091.2	1292.1	1317.0
122.5°	339.5	361.3	383.1	388.6	485.5	614.8	679.3	799.9	1041.2	1222.1	1246.6
125°	369.4	389.3	409.2	414.2	498.9	612.0	668.5	770.9	975.9	1129.6	1152.1
127.5°	393.8	413.9	433.9	438.9	512.4	610.4	659.3	747.3	923.3	1055.3	1074.4
130°	406.8	428.5	450.1	455.5	522.3	611.4	655.9	734.2	890.9	1008.4	1025.9
132.5°	420.2	441.9	463.5	468.9	530.3	612.0	652.8	722.9	863.2	968.4	984.1
135°	440.2	460.0	479.7	484.6	539.0	611.4	647.6	706.3	823.8	911.8	925.4
137.5°	460.7	480.2	499.7	504.6	551.9	615.1	646.7	696.4	795.6	870.1	881.2
140°	477.6	495.6	513.6	518.1	560.0	615.8	643.6	686.5	772.3	836.7	847.0
142.5°	490.7	507.4	524.0	528.1	566.6	617.9	643.6	681.3	756.6	813.2	822.2
145°	510.7	525.2	539.6	543.3	575.3	618.0	639.3	670.2	731.8	778.0	784.7
147.5°	530.6	544.7	558.9	562.4	588.0	622.2	639.3	663.5	712.1	748.4	754.0
150°	543.7	556.4	569.2	572.4	594.8	624.5	639.3	659.8	700.7	731.5	736.1
152.5°	557.2	566.9	576.5	579.0	599.1	625.9	639.3	656.8	691.8	718.0	721.5
155°	577.2	584.3	591.5	593.3	608.6	629.1	639.3	653.3	681.1	702.0	704.2
157.5°	591.9	599.0	605.9	607.7	618.2	632.3	639.3	650.2	671.8	688.0	689.6
160°	602.0	607.4	612.8	614.1	622.5	633.7	639.3	648.6	667.1	681.0	682.0
162.5°	612.0	616.1	620.1	621.1	627.2	635.3	639.3	647.2	662.8	674.6	675.4
165°	622.8	626.5	630.2	631.1	633.8	637.5	639.3	644.9	656.2	664.6	665.5
167.5°	632.8	634.6	636.3	636.7	639.1	642.1	643.6	647.3	654.7	660.2	660.6
170°	639.3	641.1	642.8	643.3	643.4	643.5	643.6	647.3	654.7	660.2	660.2
172.5°	642.8	643.2	643.5	643.6	643.6	643.6	643.6	646.5	652.3	656.7	656.4
175°	647.6	647.6	647.6	647.6	646.3	644.5	643.6	645.5	649.2	652.0	652.0
177.5°	647.6	647.6	647.6	647.6	646.5	645.2	644.6	646.1	649.0	651.1	650.7
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	1019.3	1016.5	1019.3	1017.4	1018.4	1015.6	1007.1	1004.2	1007.1	1009.9	1009.9
5°	1031.5	1029.6	1031.5	1031.5	1030.6	1028.6	1019.3	1017.4	1019.3	1020.2	1018.4
7.5°	1035.3	1032.5	1035.3	1033.4	1033.4	1031.5	1022.1	1020.2	1021.2	1024.0	1021.2
10°	1035.3	1032.5	1035.3	1034.3	1033.4	1031.5	1022.1	1018.4	1018.4	1021.2	1018.4
12.5°	1030.6	1028.6	1030.6	1028.6	1028.6	1026.8	1017.4	1013.6	1014.6	1015.6	1011.7
15°	1023.0	1020.2	1023.0	1021.2	1022.1	1019.3	1008.9	1005.2	1005.2	1007.1	1000.5
17.5°	1011.7	1008.0	1011.7	1010.8	1009.9	1008.0	998.5	994.8	993.9	994.8	990.1
20°	998.5	995.7	998.5	997.6	997.6	993.9	984.5	979.8	979.8	979.8	975.1
22.5°	977.9	975.1	977.9	979.8	979.8	978.8	970.4	963.8	961.9	961.9	956.3
25°	954.4	951.6	954.4	954.4	953.5	954.4	951.6	947.8	945.0	942.2	936.6
27.5°	931.8	929.9	931.8	929.9	931.8	929.0	928.1	927.1	923.4	920.6	913.0
30°	909.3	907.4	909.3	907.4	905.5	903.6	898.9	897.0	900.8	898.9	886.7
32.5°	881.1	879.2	881.1	881.1	879.2	879.2	871.6	868.8	869.7	875.4	864.1
35°	851.9	849.1	851.9	851.0	851.9	849.1	844.4	843.5	839.6	846.3	837.8
37.5°	818.1	815.3	818.1	818.1	818.1	819.9	816.2	813.4	807.7	816.2	809.5
40°	783.3	779.5	783.3	782.3	783.3	785.2	783.3	781.4	775.7	782.3	776.6
42.5°	743.7	742.8	743.7	744.7	744.7	748.5	751.3	747.6	745.6	740.9	744.7
45°	701.5	699.5	701.5	703.4	704.3	706.2	714.6	714.6	711.8	704.3	709.9
47.5°	656.4	651.6	656.4	662.0	662.0	664.8	673.3	679.8	675.1	665.7	668.6
50°	608.4	609.3	608.4	612.1	612.1	622.5	629.1	635.6	640.4	629.1	615.9
52.5°	561.4	560.4	561.4	564.2	567.9	572.6	583.9	590.5	598.0	591.5	570.7
55°	514.4	516.2	514.4	515.3	517.2	520.0	536.9	543.5	557.6	549.1	527.5
57.5°	467.4	464.5	467.4	469.2	470.2	473.0	487.1	499.3	507.7	508.7	482.4
60°	412.8	409.0	412.8	421.3	423.1	425.0	438.2	449.5	457.0	459.8	432.6
62.5°	364.8	358.3	364.8	370.5	374.3	378.9	388.4	405.3	411.8	412.8	374.3
65°	314.1	311.3	314.1	325.4	326.3	331.9	342.3	354.5	368.6	366.7	311.3
67.5°	268.0	268.0	268.0	275.6	281.2	284.0	297.1	302.8	320.6	322.6	259.6
70°	225.6	224.7	225.6	231.3	235.1	241.6	253.9	260.5	274.5	279.3	210.6
72.5°	185.3	184.3	185.3	189.9	193.7	199.4	209.7	217.2	229.5	235.1	163.6
75°	149.6	147.6	149.6	153.3	152.4	159.8	168.3	175.8	187.1	190.9	121.3
77.5°	114.7	114.7	114.7	118.5	118.5	126.0	129.7	139.2	145.7	151.4	89.4
80°	85.5	84.6	85.5	86.6	86.6	90.3	96.8	103.5	109.1	109.1	61.1
82.5°	60.2	58.3	60.2	60.2	60.2	62.1	65.8	67.7	71.5	74.3	38.5
85°	37.6	37.6	37.6	38.5	37.6	39.5	40.5	42.3	42.3	40.5	23.5
87.5°	24.5	23.5	24.5	23.5	23.5	22.5	22.5	22.5	21.6	20.7	13.2
90°	16.5	16.5	16.5	16.5	16.5	22.1	29.3	33.0	28.3	19.1	12.2
92.5°	66.1	53.0	66.1	79.3	82.5	117.0	163.0	186.0	163.3	117.9	83.8
95°	230.6	190.8	230.6	270.4	280.3	368.1	485.2	543.7	459.2	290.1	163.4
97.5°	552.5	476.8	552.5	628.2	647.2	702.7	776.6	813.7	672.7	390.9	179.5
100°	796.0	705.8	796.0	886.3	908.8	904.8	899.4	896.7	740.3	427.5	193.0
102.5°	1035.7	958.4	1035.7	1112.9	1132.2	1061.5	967.2	920.1	761.5	444.4	206.5
105°	1341.0	1299.5	1341.0	1382.6	1393.0	1234.5	1023.1	917.5	763.9	456.8	226.5
107.5°	1541.1	1551.1	1541.1	1531.1	1528.6	1307.6	1012.8	865.4	729.9	459.1	256.0
110°	1617.4	1660.7	1617.4	1574.2	1563.4	1316.3	986.7	821.9	699.8	455.6	272.5



TEST NUMBER: P934641

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1624.2	1690.7	1624.2	1557.8	1541.1	1288.2	951.0	782.3	673.5	455.8	292.5
115°	1581.1	1673.3	1581.1	1489.0	1466.0	1222.3	897.4	735.0	643.3	460.0	322.5
117.5°	1489.8	1592.0	1489.8	1387.7	1362.1	1142.2	849.0	702.3	624.4	468.6	351.6
120°	1416.3	1515.5	1416.3	1317.0	1292.1	1091.2	823.3	689.3	618.0	475.5	368.6
122.5°	1344.6	1442.5	1344.6	1246.6	1222.1	1041.2	799.9	679.3	614.8	485.5	388.6
125°	1242.4	1332.6	1242.4	1152.1	1129.6	975.9	770.9	668.5	612.0	498.9	414.2
127.5°	1150.4	1226.5	1150.4	1074.4	1055.3	923.3	747.3	659.3	610.4	512.4	438.9
130°	1096.2	1166.5	1096.2	1025.9	1008.4	890.9	734.2	655.9	611.4	522.3	455.5
132.5°	1047.1	1110.1	1047.1	984.1	968.4	863.2	722.9	652.8	612.0	530.3	468.9
135°	979.7	1034.0	979.7	925.4	911.8	823.8	706.3	647.6	611.4	539.0	484.6
137.5°	925.6	970.1	925.6	881.2	870.1	795.6	696.4	646.7	615.1	551.9	504.6
140°	888.6	930.1	888.6	847.0	836.7	772.3	686.5	643.6	615.8	560.0	518.1
142.5°	857.9	893.6	857.9	822.2	813.2	756.6	681.3	643.6	617.9	566.6	528.1
145°	811.8	838.8	811.8	784.7	778.0	731.8	670.2	639.3	618.0	575.3	543.3
147.5°	776.4	798.8	776.4	754.0	748.4	712.1	663.5	639.3	622.2	588.0	562.4
150°	754.2	772.3	754.2	736.1	731.5	700.7	659.8	639.3	624.5	594.8	572.4
152.5°	735.1	748.9	735.1	721.5	718.0	691.8	656.8	639.3	625.9	599.1	579.0
155°	713.3	722.3	713.3	704.2	702.0	681.1	653.3	639.3	629.1	608.6	593.3
157.5°	696.0	702.3	696.0	689.6	688.0	671.8	650.2	639.3	632.3	618.2	607.7
160°	685.6	689.3	685.6	682.0	681.0	667.1	648.6	639.3	633.7	622.5	614.1
162.5°	678.9	682.3	678.9	675.4	674.6	662.8	647.2	639.3	635.3	627.2	621.1
165°	669.2	672.8	669.2	665.5	664.6	656.2	644.9	639.3	637.5	633.8	631.1
167.5°	662.1	663.6	662.1	660.6	660.2	654.7	647.3	643.6	642.1	639.1	636.7
170°	660.2	660.2	660.2	660.2	660.2	654.7	647.3	643.6	643.5	643.4	643.3
172.5°	655.0	653.6	655.0	656.4	656.7	652.3	646.5	643.6	643.6	643.6	643.6
175°	652.0	652.0	652.0	652.0	652.0	649.2	645.5	643.6	644.5	646.3	647.6
177.5°	649.2	647.6	649.2	650.7	651.1	649.0	646.1	644.6	645.2	646.5	647.6
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



TEST NUMBER: P934641

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	1008.0	1002.4	1002.4	992.9	989.2	986.4	981.6	967.6	963.8	960.0	965.6
5°	1016.5	1006.1	998.5	981.6	967.6	961.9	944.1	910.2	887.6	870.7	861.3
7.5°	1018.4	1005.2	991.1	964.7	930.9	915.8	861.3	799.3	782.3	767.3	757.9
10°	1016.5	1001.4	981.6	942.2	862.3	835.9	781.4	740.9	730.6	727.8	730.6
12.5°	1009.9	995.7	968.5	902.6	790.8	772.9	740.9	717.5	715.5	720.3	745.6
15°	998.5	985.5	953.5	850.0	751.3	738.1	715.5	707.1	717.5	750.4	826.6
17.5°	987.3	972.3	932.7	798.3	721.2	711.8	695.8	712.7	771.0	815.3	840.6
20°	972.3	954.4	909.3	760.7	699.5	691.1	683.6	759.7	803.9	819.9	834.0
22.5°	954.4	935.5	877.3	734.4	677.0	670.5	675.1	786.1	803.9	815.3	827.5
25°	930.9	914.9	839.6	713.6	659.2	651.6	669.5	783.3	793.6	796.5	820.9
27.5°	909.3	888.5	800.2	694.9	637.6	634.7	674.2	771.0	778.6	781.4	807.7
30°	882.9	851.9	756.0	675.1	614.9	614.0	675.1	756.0	754.1	761.6	788.0
32.5°	855.6	797.4	706.2	650.6	593.4	592.4	668.6	733.5	731.6	741.9	761.6
35°	830.3	755.1	638.5	622.5	566.1	567.0	652.5	707.1	708.0	717.5	729.6
37.5°	803.9	718.4	564.2	591.5	539.7	539.7	630.9	682.6	680.7	683.6	700.6
40°	772.9	661.0	498.4	551.0	515.3	512.5	604.6	656.4	649.7	648.8	672.3
42.5°	740.0	598.0	449.5	497.5	487.1	483.3	572.6	624.4	612.1	614.9	645.0
45°	704.3	581.1	411.8	420.3	457.9	455.1	537.8	587.6	579.2	586.7	617.7
47.5°	668.6	547.3	399.6	348.8	426.9	425.9	499.3	551.9	547.3	554.7	587.6
50°	619.6	509.6	398.7	299.0	392.1	395.8	453.2	517.2	517.2	523.7	558.6
52.5°	556.6	463.5	362.0	270.8	351.6	362.9	412.8	487.1	488.9	495.6	526.5
55°	499.3	415.6	335.7	249.2	303.7	328.2	373.3	456.0	459.8	466.4	494.6
57.5°	446.6	346.0	330.0	223.8	259.6	283.0	338.6	425.9	427.8	433.5	460.7
60°	390.2	250.1	302.8	196.5	221.0	238.8	306.5	390.2	396.8	400.5	424.1
62.5°	326.3	181.5	274.5	177.7	202.2	205.9	280.2	356.4	364.8	367.6	381.7
65°	232.3	152.4	233.2	161.7	182.5	183.4	252.0	321.5	329.1	333.8	344.2
67.5°	157.0	124.1	177.7	146.7	167.4	168.3	224.7	281.2	291.5	295.3	301.8
70°	109.1	82.7	131.6	130.7	150.5	152.4	195.5	244.5	253.9	256.7	260.5
72.5°	79.9	66.7	109.1	117.5	132.5	134.5	165.5	203.1	212.6	215.4	217.2
75°	61.1	70.5	88.4	102.5	112.8	113.8	135.4	165.5	172.1	173.9	174.9
77.5°	48.9	65.8	64.9	82.7	92.2	90.3	106.3	127.9	133.5	133.5	133.5
80°	36.6	51.7	48.9	59.3	67.7	65.8	76.2	91.2	93.1	95.0	94.0
82.5°	27.3	32.9	32.9	37.6	45.1	43.3	50.8	59.3	59.3	59.3	61.1
85°	16.9	18.8	15.0	19.7	25.4	24.5	28.2	32.0	32.9	32.9	31.0
87.5°	10.4	8.5	4.7	7.5	11.3	11.3	13.2	14.1	13.2	13.2	13.2
90°	11.3	7.8	4.3	7.8	11.3	12.2	19.1	28.3	33.0	29.3	22.1
92.5°	76.5	46.9	17.4	46.9	76.5	83.8	117.9	163.3	186.0	163.0	117.0
95°	149.8	95.8	41.7	95.8	149.8	163.4	290.1	459.2	543.7	485.2	368.1
97.5°	167.5	119.8	72.2	119.8	167.5	179.5	390.9	672.7	813.7	776.6	702.7
100°	182.2	138.9	95.6	138.9	182.2	193.0	427.5	740.3	896.7	899.4	904.8
102.5°	196.4	156.0	115.6	156.0	196.4	206.5	444.4	761.5	920.1	967.2	1061.5
105°	218.0	183.8	149.6	183.8	218.0	226.5	456.8	763.9	917.5	1023.1	1234.5
107.5°	248.1	216.2	184.3	216.2	248.1	256.0	459.1	729.9	865.4	1012.8	1307.6
110°	265.3	236.6	207.8	236.6	265.3	272.5	455.6	699.8	821.9	986.7	1316.3



TEST NUMBER: P934641

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	285.6	258.2	230.8	258.2	285.6	292.5	455.8	673.5	782.3	951.0	1288.2
115°	316.1	290.9	265.5	290.9	316.1	322.5	460.0	643.3	735.0	897.4	1222.3
117.5°	345.8	322.8	299.9	322.8	345.8	351.6	468.6	624.4	702.3	849.0	1142.2
120°	363.1	341.5	319.9	341.5	363.1	368.6	475.5	618.0	689.3	823.3	1091.2
122.5°	383.1	361.3	339.5	361.3	383.1	388.6	485.5	614.8	679.3	799.9	1041.2
125°	409.2	389.3	369.4	389.3	409.2	414.2	498.9	612.0	668.5	770.9	975.9
127.5°	433.9	413.9	393.8	413.9	433.9	438.9	512.4	610.4	659.3	747.3	923.3
130°	450.1	428.5	406.8	428.5	450.1	455.5	522.3	611.4	655.9	734.2	890.9
132.5°	463.5	441.9	420.2	441.9	463.5	468.9	530.3	612.0	652.8	722.9	863.2
135°	479.7	460.0	440.2	460.0	479.7	484.6	539.0	611.4	647.6	706.3	823.8
137.5°	499.7	480.2	460.7	480.2	499.7	504.6	551.9	615.1	646.7	696.4	795.6
140°	513.6	495.6	477.6	495.6	513.6	518.1	560.0	615.8	643.6	686.5	772.3
142.5°	524.0	507.4	490.7	507.4	524.0	528.1	566.6	617.9	643.6	681.3	756.6
145°	539.6	525.2	510.7	525.2	539.6	543.3	575.3	618.0	639.3	670.2	731.8
147.5°	558.9	544.7	530.6	544.7	558.9	562.4	588.0	622.2	639.3	663.5	712.1
150°	569.2	556.4	543.7	556.4	569.2	572.4	594.8	624.5	639.3	659.8	700.7
152.5°	576.5	566.9	557.2	566.9	576.5	579.0	599.1	625.9	639.3	656.8	691.8
155°	591.5	584.3	577.2	584.3	591.5	593.3	608.6	629.1	639.3	653.3	681.1
157.5°	605.9	599.0	591.9	599.0	605.9	607.7	618.2	632.3	639.3	650.2	671.8
160°	612.8	607.4	602.0	607.4	612.8	614.1	622.5	633.7	639.3	648.6	667.1
162.5°	620.1	616.1	612.0	616.1	620.1	621.1	627.2	635.3	639.3	647.2	662.8
165°	630.2	626.5	622.8	626.5	630.2	631.1	633.8	637.5	639.3	644.9	656.2
167.5°	636.3	634.6	632.8	634.6	636.3	636.7	639.1	642.1	643.6	647.3	654.7
170°	642.8	641.1	639.3	641.1	642.8	643.3	643.4	643.5	643.6	647.3	654.7
172.5°	643.5	643.2	642.8	643.2	643.5	643.6	643.6	643.6	643.6	646.5	652.3
175°	647.6	647.6	647.6	647.6	647.6	647.6	646.3	644.5	643.6	645.5	649.2
177.5°	647.6	647.6	647.6	647.6	647.6	647.6	646.5	645.2	644.6	646.1	649.0
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



TEST NUMBER: P934641

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	959.1	956.3	960.0	949.7	960.0	956.3	959.1	965.6	960.0	963.8	967.6
5°	841.6	836.8	821.8	809.5	821.8	836.8	841.6	861.3	870.7	887.6	910.2
7.5°	752.3	748.5	744.7	737.2	744.7	748.5	752.3	757.9	767.3	782.3	799.3
10°	732.5	733.5	739.1	738.1	739.1	733.5	732.5	730.6	727.8	730.6	740.9
12.5°	783.3	791.7	822.7	820.9	822.7	791.7	783.3	745.6	720.3	715.5	717.5
15°	841.6	844.4	851.0	851.9	851.0	844.4	841.6	826.6	750.4	717.5	707.1
17.5°	847.2	848.2	852.8	852.8	852.8	848.2	847.2	840.6	815.3	771.0	712.7
20°	842.5	844.4	853.8	855.6	853.8	844.4	842.5	834.0	819.9	803.9	759.7
22.5°	840.6	844.4	851.9	851.0	851.9	844.4	840.6	827.5	815.3	803.9	786.1
25°	831.2	831.2	832.2	833.1	832.2	831.2	831.2	820.9	796.5	793.6	783.3
27.5°	811.5	813.4	819.0	818.1	819.0	813.4	811.5	807.7	781.4	778.6	771.0
30°	793.6	791.7	787.0	783.3	787.0	791.7	793.6	788.0	761.6	754.1	756.0
32.5°	763.6	758.8	754.1	751.3	754.1	758.8	763.6	761.6	741.9	731.6	733.5
35°	727.8	728.7	727.8	725.0	727.8	728.7	727.8	729.6	717.5	708.0	707.1
37.5°	702.4	704.3	703.4	699.5	703.4	704.3	702.4	700.6	683.6	680.7	682.6
40°	676.1	677.0	676.1	673.3	676.1	677.0	676.1	672.3	648.8	649.7	656.4
42.5°	650.6	649.7	646.9	645.0	646.9	649.7	650.6	645.0	614.9	612.1	624.4
45°	621.6	622.5	616.8	614.0	616.8	622.5	621.6	617.7	586.7	579.2	587.6
47.5°	592.4	592.4	587.6	584.8	587.6	592.4	592.4	587.6	554.7	547.3	551.9
50°	561.4	560.4	553.8	552.9	553.8	560.4	561.4	558.6	523.7	517.2	517.2
52.5°	525.6	525.6	526.5	528.5	526.5	525.6	525.6	526.5	495.6	488.9	487.1
55°	494.6	495.6	502.1	504.0	502.1	495.6	494.6	494.6	466.4	459.8	456.0
57.5°	462.6	462.6	467.4	467.4	467.4	462.6	462.6	460.7	433.5	427.8	425.9
60°	425.9	427.8	431.6	430.6	431.6	427.8	425.9	424.1	400.5	396.8	390.2
62.5°	387.4	389.3	390.2	388.4	390.2	389.3	387.4	381.7	367.6	364.8	356.4
65°	347.0	348.8	349.8	347.9	349.8	348.8	347.0	344.2	333.8	329.1	321.5
67.5°	305.6	304.6	303.7	307.5	303.7	304.6	305.6	301.8	295.3	291.5	281.2
70°	263.3	263.3	262.4	264.2	262.4	263.3	263.3	260.5	256.7	253.9	244.5
72.5°	218.2	217.2	221.0	218.2	221.0	217.2	218.2	217.2	215.4	212.6	203.1
75°	173.9	175.8	173.9	176.8	173.9	175.8	173.9	174.9	173.9	172.1	165.5
77.5°	132.5	134.5	132.5	132.5	132.5	134.5	132.5	133.5	133.5	133.5	127.9
80°	94.0	93.1	93.1	92.2	93.1	93.1	94.0	94.0	95.0	93.1	91.2
82.5°	60.2	59.3	59.3	61.1	59.3	59.3	60.2	61.1	59.3	59.3	59.3
85°	32.9	33.8	32.0	32.0	32.0	33.8	32.9	31.0	32.9	32.9	32.0
87.5°	12.2	11.3	11.3	11.3	11.3	11.3	12.2	13.2	13.2	13.2	14.1
90°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	22.1	29.3	33.0	28.3
92.5°	82.5	79.3	66.1	53.0	66.1	79.3	82.5	117.0	163.0	186.0	163.3
95°	280.3	270.4	230.6	190.8	230.6	270.4	280.3	368.1	485.2	543.7	459.2
97.5°	647.2	628.2	552.5	476.8	552.5	628.2	647.2	702.7	776.6	813.7	672.7
100°	908.8	886.3	796.0	705.8	796.0	886.3	908.8	904.8	899.4	896.7	740.3
102.5°	1132.2	1112.9	1035.7	958.4	1035.7	1112.9	1132.2	1061.5	967.2	920.1	761.5
105°	1393.0	1382.6	1341.0	1299.5	1341.0	1382.6	1393.0	1234.5	1023.1	917.5	763.9
107.5°	1528.6	1531.1	1541.1	1551.1	1541.1	1531.1	1528.6	1307.6	1012.8	865.4	729.9
110°	1563.4	1574.2	1617.4	1660.7	1617.4	1574.2	1563.4	1316.3	986.7	821.9	699.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1541.1	1557.8	1624.2	1690.7	1624.2	1557.8	1541.1	1288.2	951.0	782.3	673.5
115°	1466.0	1489.0	1581.1	1673.3	1581.1	1489.0	1466.0	1222.3	897.4	735.0	643.3
117.5°	1362.1	1387.7	1489.8	1592.0	1489.8	1387.7	1362.1	1142.2	849.0	702.3	624.4
120°	1292.1	1317.0	1416.3	1515.5	1416.3	1317.0	1292.1	1091.2	823.3	689.3	618.0
122.5°	1222.1	1246.6	1344.6	1442.5	1344.6	1246.6	1222.1	1041.2	799.9	679.3	614.8
125°	1129.6	1152.1	1242.4	1332.6	1242.4	1152.1	1129.6	975.9	770.9	668.5	612.0
127.5°	1055.3	1074.4	1150.4	1226.5	1150.4	1074.4	1055.3	923.3	747.3	659.3	610.4
130°	1008.4	1025.9	1096.2	1166.5	1096.2	1025.9	1008.4	890.9	734.2	655.9	611.4
132.5°	968.4	984.1	1047.1	1110.1	1047.1	984.1	968.4	863.2	722.9	652.8	612.0
135°	911.8	925.4	979.7	1034.0	979.7	925.4	911.8	823.8	706.3	647.6	611.4
137.5°	870.1	881.2	925.6	970.1	925.6	881.2	870.1	795.6	696.4	646.7	615.1
140°	836.7	847.0	888.6	930.1	888.6	847.0	836.7	772.3	686.5	643.6	615.8
142.5°	813.2	822.2	857.9	893.6	857.9	822.2	813.2	756.6	681.3	643.6	617.9
145°	778.0	784.7	811.8	838.8	811.8	784.7	778.0	731.8	670.2	639.3	618.0
147.5°	748.4	754.0	776.4	798.8	776.4	754.0	748.4	712.1	663.5	639.3	622.2
150°	731.5	736.1	754.2	772.3	754.2	736.1	731.5	700.7	659.8	639.3	624.5
152.5°	718.0	721.5	735.1	748.9	735.1	721.5	718.0	691.8	656.8	639.3	625.9
155°	702.0	704.2	713.3	722.3	713.3	704.2	702.0	681.1	653.3	639.3	629.1
157.5°	688.0	689.6	696.0	702.3	696.0	689.6	688.0	671.8	650.2	639.3	632.3
160°	681.0	682.0	685.6	689.3	685.6	682.0	681.0	667.1	648.6	639.3	633.7
162.5°	674.6	675.4	678.9	682.3	678.9	675.4	674.6	662.8	647.2	639.3	635.3
165°	664.6	665.5	669.2	672.8	669.2	665.5	664.6	656.2	644.9	639.3	637.5
167.5°	660.2	660.6	662.1	663.6	662.1	660.6	660.2	654.7	647.3	643.6	642.1
170°	660.2	660.2	660.2	660.2	660.2	660.2	660.2	654.7	647.3	643.6	643.5
172.5°	656.7	656.4	655.0	653.6	655.0	656.4	656.7	652.3	646.5	643.6	643.6
175°	652.0	652.0	652.0	652.0	652.0	652.0	652.0	649.2	645.5	643.6	644.5
177.5°	651.1	650.7	649.2	647.6	649.2	650.7	651.1	649.0	646.1	644.6	645.2
180°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6



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CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	993.9	993.9	993.9	993.9	993.9
2.5°	981.6	986.4	989.2	992.9	1002.4
5°	944.1	961.9	967.6	981.6	998.5
7.5°	861.3	915.8	930.9	964.7	991.1
10°	781.4	835.9	862.3	942.2	981.6
12.5°	740.9	772.9	790.8	902.6	968.5
15°	715.5	738.1	751.3	850.0	953.5
17.5°	695.8	711.8	721.2	798.3	932.7
20°	683.6	691.1	699.5	760.7	909.3
22.5°	675.1	670.5	677.0	734.4	877.3
25°	669.5	651.6	659.2	713.6	839.6
27.5°	674.2	634.7	637.6	694.9	800.2
30°	675.1	614.0	614.9	675.1	756.0
32.5°	668.6	592.4	593.4	650.6	706.2
35°	652.5	567.0	566.1	622.5	638.5
37.5°	630.9	539.7	539.7	591.5	564.2
40°	604.6	512.5	515.3	551.0	498.4
42.5°	572.6	483.3	487.1	497.5	449.5
45°	537.8	455.1	457.9	420.3	411.8
47.5°	499.3	425.9	426.9	348.8	399.6
50°	453.2	395.8	392.1	299.0	398.7
52.5°	412.8	362.9	351.6	270.8	362.0
55°	373.3	328.2	303.7	249.2	335.7
57.5°	338.6	283.0	259.6	223.8	330.0
60°	306.5	238.8	221.0	196.5	302.8
62.5°	280.2	205.9	202.2	177.7	274.5
65°	252.0	183.4	182.5	161.7	233.2
67.5°	224.7	168.3	167.4	146.7	177.7
70°	195.5	152.4	150.5	130.7	131.6
72.5°	165.5	134.5	132.5	117.5	109.1
75°	135.4	113.8	112.8	102.5	88.4
77.5°	106.3	90.3	92.2	82.7	64.9
80°	76.2	65.8	67.7	59.3	48.9
82.5°	50.8	43.3	45.1	37.6	32.9
85°	28.2	24.5	25.4	19.7	15.0
87.5°	13.2	11.3	11.3	7.5	4.7
90°	19.1	12.2	11.3	7.8	4.3
92.5°	117.9	83.8	76.5	46.9	17.4
95°	290.1	163.4	149.8	95.8	41.7
97.5°	390.9	179.5	167.5	119.8	72.2
100°	427.5	193.0	182.2	138.9	95.6
102.5°	444.4	206.5	196.4	156.0	115.6
105°	456.8	226.5	218.0	183.8	149.6
107.5°	459.1	256.0	248.1	216.2	184.3
110°	455.6	272.5	265.3	236.6	207.8



TEST NUMBER: P934641

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	455.8	292.5	285.6	258.2	230.8
115°	460.0	322.5	316.1	290.9	265.5
117.5°	468.6	351.6	345.8	322.8	299.9
120°	475.5	368.6	363.1	341.5	319.9
122.5°	485.5	388.6	383.1	361.3	339.5
125°	498.9	414.2	409.2	389.3	369.4
127.5°	512.4	438.9	433.9	413.9	393.8
130°	522.3	455.5	450.1	428.5	406.8
132.5°	530.3	468.9	463.5	441.9	420.2
135°	539.0	484.6	479.7	460.0	440.2
137.5°	551.9	504.6	499.7	480.2	460.7
140°	560.0	518.1	513.6	495.6	477.6
142.5°	566.6	528.1	524.0	507.4	490.7
145°	575.3	543.3	539.6	525.2	510.7
147.5°	588.0	562.4	558.9	544.7	530.6
150°	594.8	572.4	569.2	556.4	543.7
152.5°	599.1	579.0	576.5	566.9	557.2
155°	608.6	593.3	591.5	584.3	577.2
157.5°	618.2	607.7	605.9	599.0	591.9
160°	622.5	614.1	612.8	607.4	602.0
162.5°	627.2	621.1	620.1	616.1	612.0
165°	633.8	631.1	630.2	626.5	622.8
167.5°	639.1	636.7	636.3	634.6	632.8
170°	643.4	643.3	642.8	641.1	639.3
172.5°	643.6	643.6	643.5	643.2	642.8
175°	646.3	647.6	647.6	647.6	647.6
177.5°	646.5	647.6	647.6	647.6	647.6
180°	647.6	647.6	647.6	647.6	647.6



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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	9.90	10.66	10.95	11.72	13.15	12.72	13.48	13.77	14.54	15.97
	3H	10.37	11.05	11.43	12.12	13.57	14.06	14.74	15.12	15.81	17.26
	4H	10.55	11.20	11.63	12.27	13.73	14.50	15.14	15.57	16.21	17.67
	6H	10.67	11.26	11.75	12.33	13.80	14.77	15.37	15.86	16.44	17.91
	8H	10.66	11.23	11.75	12.32	13.78	14.84	15.41	15.93	16.50	17.96
	12H	10.63	11.17	11.73	12.25	13.74	14.88	15.42	15.97	16.50	17.99
4H	2H	10.92	11.56	12.00	12.63	14.09	13.12	13.77	14.20	14.83	16.29
	3H	11.93	12.47	13.02	13.57	15.04	14.61	15.15	15.70	16.25	17.72
	4H	12.21	12.70	13.30	13.79	15.28	15.14	15.63	16.23	16.72	18.21
	6H	12.32	12.75	13.43	13.86	15.34	15.49	15.92	16.60	17.03	18.51
	8H	12.33	12.73	13.43	13.83	15.33	15.60	15.99	16.70	17.10	18.60
	12H	12.29	12.65	13.41	13.76	15.27	15.65	16.01	16.77	17.12	18.63
8H	4H	12.65	13.05	13.75	14.15	15.65	15.25	15.65	16.35	16.75	18.25
	6H	12.91	13.24	14.03	14.38	15.88	15.68	16.01	16.81	17.15	18.65
	8H	12.95	13.24	14.08	14.36	15.88	15.83	16.12	16.96	17.24	18.76
	12H	12.93	13.18	14.06	14.30	15.86	15.93	16.18	17.06	17.30	18.85
12H	4H	12.65	13.01	13.77	14.12	15.63	15.21	15.57	16.33	16.69	18.19
	6H	12.97	13.25	14.10	14.38	15.90	15.68	15.97	16.81	17.09	18.61
	8H	13.03	13.28	14.16	14.40	15.96	15.84	16.09	16.97	17.21	18.76