

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: P935831

Luminaire Tested: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935831
REPORT IS A COMBINATION OF REPORTS P933770 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-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: -

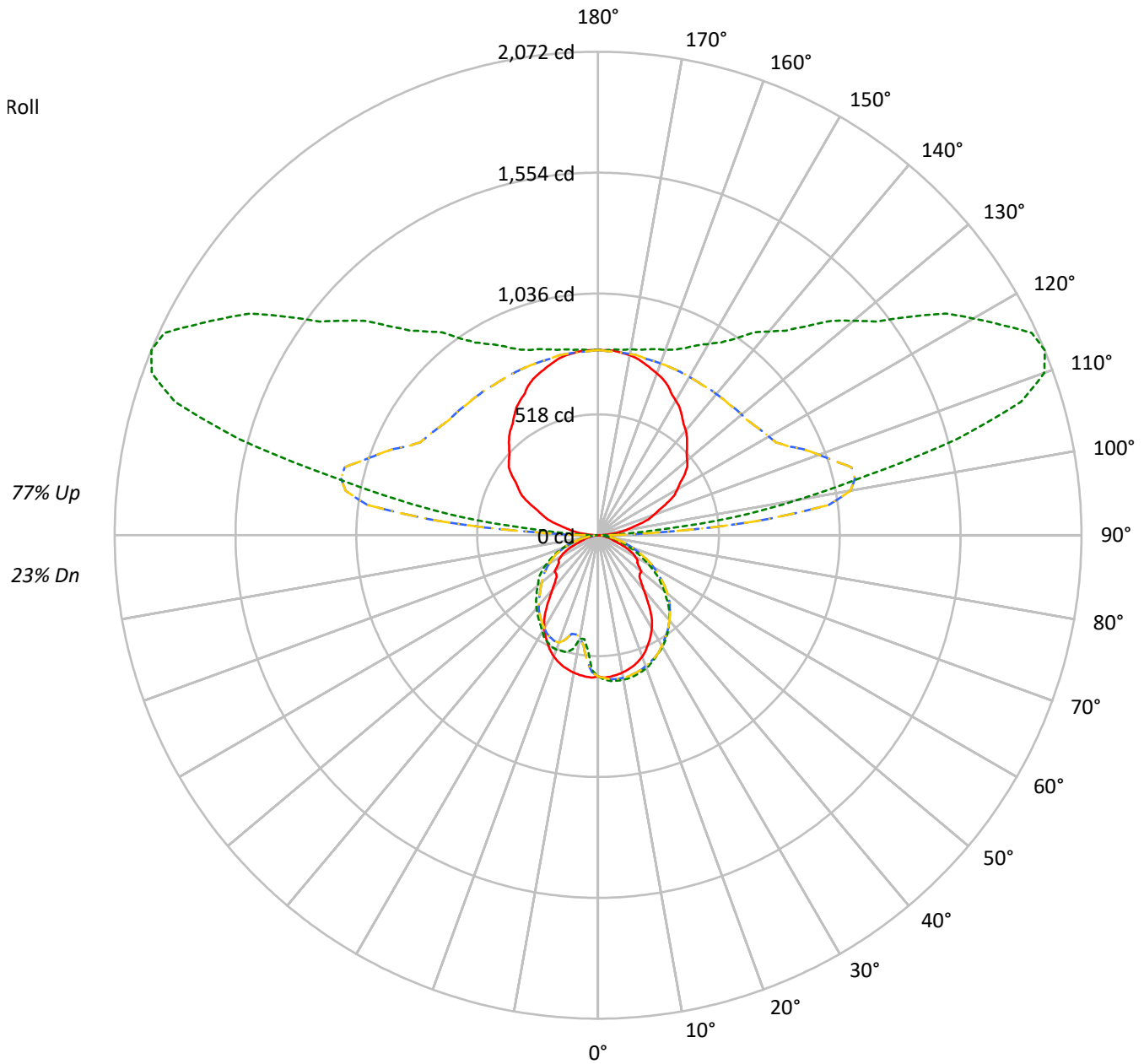
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6718.6 lumens
Efficiency: N/A
Efficacy: 120.8 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): 55.6
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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CATALOG NUMBER: SQ4-FA-150U-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	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

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	0.8
10°-20°	155.2	2.3
20°-30°	239.9	3.6
30°-40°	286.4	4.3
40°-50°	288.0	4.3
50°-60°	250.6	3.7
60°-70°	177.7	2.6
70°-80°	94.0	1.4
80°-90°	26.4	0.4
90°-100°	386.9	5.8
100°-110°	1017.2	15.1
110°-120°	1054.8	15.7
120°-130°	846.0	12.6
130°-140°	663.8	9.9
140°-150°	509.5	7.6
150°-160°	367.0	5.5
160°-170°	224.5	3.3
170°-180°	75.9	1.1
0°-30°	449.7	6.7
0°-40°	736.1	11.0
0°-60°	1274.8	19.0
0°-90°	1572.9	23.4
90°-120°	2458.9	36.6
90°-150°	4478.3	66.7
90°-180°	5146.0	76.6
0°-180°	6718.6	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°	5	20	5	20	5	5
95°	51	234	51	234	51	57
105°	183	1593	183	1593	183	194
115°	326	2051	326	2051	326	321
125°	453	1633	453	1633	453	402
135°	540	1267	540	1267	540	418
145°	626	1028	626	1028	626	392
155°	708	885	708	885	708	325
165°	763	825	763	825	763	215
175°	794	799	794	799	794	75
180°	794	794	794	794	794	



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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°	5.3	9.6	13.8	14.9	23.5	34.8	40.5	36.0	27.0	20.2	20.2
92.5°	21.3	57.5	93.8	102.8	144.5	200.1	228.0	199.8	143.5	101.2	97.2
95°	51.2	117.4	183.7	200.3	355.7	562.9	666.5	594.7	451.2	343.6	331.4
97.5°	88.4	146.9	205.4	220.0	479.1	824.6	997.3	951.9	861.2	793.2	770.0
100°	117.2	170.2	223.3	236.5	524.0	907.3	1099.0	1102.3	1109.0	1114.0	1086.3
102.5°	141.7	191.2	240.7	253.1	544.7	933.4	1127.8	1185.5	1301.1	1387.8	1364.1
105°	183.3	225.2	267.1	277.6	559.9	936.3	1124.5	1254.0	1513.1	1707.4	1694.7
107.5°	225.9	265.0	304.1	313.8	562.8	894.7	1060.7	1241.3	1602.6	1873.6	1876.7
110°	254.6	289.9	325.3	334.0	558.5	857.7	1007.4	1209.4	1613.3	1916.2	1929.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	282.9	316.5	350.2	358.6	558.7	825.5	958.9	1165.6	1579.0	1889.1	1909.4
115°	325.5	356.5	387.5	395.3	563.8	788.5	900.8	1099.9	1498.2	1796.9	1825.2
117.5°	367.6	395.8	424.0	431.0	574.3	765.4	860.9	1040.6	1400.0	1669.6	1700.9
120°	392.0	418.6	445.1	451.7	582.8	757.5	844.9	1009.1	1337.5	1583.8	1614.2
122.5°	416.0	442.8	469.6	476.3	595.1	753.5	832.7	980.5	1276.2	1498.1	1528.0
125°	452.9	477.2	501.6	507.7	611.6	750.1	819.4	944.9	1196.1	1384.5	1412.2
127.5°	482.7	507.3	531.9	538.0	628.0	748.1	808.2	916.1	1131.7	1293.5	1316.8
130°	498.6	525.1	551.6	558.3	640.2	749.3	803.9	899.9	1091.9	1235.9	1257.4
132.5°	515.1	541.7	568.2	574.8	649.9	750.1	800.1	886.1	1058.0	1186.9	1206.2
135°	539.6	563.8	587.9	594.0	660.6	749.3	793.7	865.7	1009.7	1117.6	1134.3
137.5°	564.7	588.6	612.5	618.5	676.6	754.0	792.7	853.5	975.2	1066.5	1080.1
140°	585.5	607.5	629.6	635.0	686.4	754.8	789.0	841.5	946.6	1025.5	1038.2
142.5°	601.5	621.8	642.1	647.3	694.5	757.4	789.0	835.2	927.5	996.8	1007.7
145°	626.0	643.8	661.4	665.9	705.2	757.5	783.7	821.4	896.9	953.5	961.8
147.5°	650.4	667.8	685.0	689.4	720.8	762.7	783.7	813.4	872.7	917.3	924.2
150°	666.5	682.1	697.7	701.6	728.9	765.4	783.7	808.8	858.9	896.6	902.1
152.5°	683.0	694.8	706.6	709.6	734.3	767.2	783.7	805.1	848.0	880.1	884.3
155°	707.5	716.3	725.0	727.2	746.0	771.1	783.7	800.7	834.8	860.4	863.2
157.5°	725.6	734.1	742.6	744.7	757.7	775.0	783.7	796.9	823.4	843.3	845.2
160°	737.8	744.5	751.1	752.7	763.1	776.8	783.7	795.0	817.7	834.7	835.8
162.5°	750.1	755.0	760.0	761.3	768.7	778.7	783.7	793.2	812.4	826.8	827.8
165°	763.4	767.9	772.4	773.5	776.9	781.4	783.7	790.5	804.2	814.5	815.6
167.5°	775.6	777.8	779.9	780.4	783.2	787.1	789.0	793.5	802.5	809.2	809.7
170°	783.7	785.8	787.9	788.4	788.6	788.9	789.0	793.5	802.5	809.2	809.2
172.5°	787.9	788.4	788.9	789.0	789.0	789.0	789.0	792.5	799.6	804.9	804.5
175°	793.7	793.7	793.7	793.7	792.1	790.0	789.0	791.2	795.7	799.1	799.1
177.5°	793.7	793.7	793.7	793.7	792.5	790.9	790.1	791.9	795.4	798.0	797.5
180°	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7



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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°	20.2	20.2	20.2	20.2	20.2	27.0	36.0	40.5	34.8	23.5	14.9
92.5°	81.1	65.0	81.1	97.2	101.2	143.5	199.8	228.0	200.1	144.5	102.8
95°	282.6	233.9	282.6	331.4	343.6	451.2	594.7	666.5	562.9	355.7	200.3
97.5°	677.2	584.4	677.2	770.0	793.2	861.2	951.9	997.3	824.6	479.1	220.0
100°	975.8	865.1	975.8	1086.3	1114.0	1109.0	1102.3	1099.0	907.3	524.0	236.5
102.5°	1269.4	1174.7	1269.4	1364.1	1387.8	1301.1	1185.5	1127.8	933.4	544.7	253.1
105°	1643.8	1592.9	1643.8	1694.7	1707.4	1513.1	1254.0	1124.5	936.3	559.9	277.6
107.5°	1889.0	1901.3	1889.0	1876.7	1873.6	1602.6	1241.3	1060.7	894.7	562.8	313.8
110°	1982.5	2035.6	1982.5	1929.5	1916.2	1613.3	1209.4	1007.4	857.7	558.5	334.0



TEST NUMBER: P935831

CATALOG NUMBER: SQ4-FA-150U-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°	1990.9	2072.3	1990.9	1909.4	1889.1	1579.0	1165.6	958.9	825.5	558.7	358.6
115°	1938.1	2051.0	1938.1	1825.2	1796.9	1498.2	1099.9	900.8	788.5	563.8	395.3
117.5°	1826.1	1951.3	1826.1	1700.9	1669.6	1400.0	1040.6	860.9	765.4	574.3	431.0
120°	1735.9	1857.6	1735.9	1614.2	1583.8	1337.5	1009.1	844.9	757.5	582.8	451.7
122.5°	1648.1	1768.1	1648.1	1528.0	1498.1	1276.2	980.5	832.7	753.5	595.1	476.3
125°	1522.7	1633.3	1522.7	1412.2	1384.5	1196.1	944.9	819.4	750.1	611.6	507.7
127.5°	1410.1	1503.4	1410.1	1316.8	1293.5	1131.7	916.1	808.2	748.1	628.0	538.0
130°	1343.6	1429.8	1343.6	1257.4	1235.9	1091.9	899.9	803.9	749.3	640.2	558.3
132.5°	1283.3	1360.5	1283.3	1206.2	1186.9	1058.0	886.1	800.1	750.1	649.9	574.8
135°	1200.8	1267.4	1200.8	1134.3	1117.6	1009.7	865.7	793.7	749.3	660.6	594.0
137.5°	1134.6	1189.0	1134.6	1080.1	1066.5	975.2	853.5	792.7	754.0	676.6	618.5
140°	1089.1	1140.0	1089.1	1038.2	1025.5	946.6	841.5	789.0	754.8	686.4	635.0
142.5°	1051.5	1095.2	1051.5	1007.7	996.8	927.5	835.2	789.0	757.4	694.5	647.3
145°	995.1	1028.2	995.1	961.8	953.5	896.9	821.4	783.7	757.5	705.2	665.9
147.5°	951.7	979.2	951.7	924.2	917.3	872.7	813.4	783.7	762.7	720.8	689.4
150°	924.4	946.6	924.4	902.1	896.6	858.9	808.8	783.7	765.4	728.9	701.6
152.5°	901.1	917.8	901.1	884.3	880.1	848.0	805.1	783.7	767.2	734.3	709.6
155°	874.3	885.4	874.3	863.2	860.4	834.8	800.7	783.7	771.1	746.0	727.2
157.5°	853.0	860.9	853.0	845.2	843.3	823.4	796.9	783.7	775.0	757.7	744.7
160°	840.4	844.9	840.4	835.8	834.7	817.7	795.0	783.7	776.8	763.1	752.7
162.5°	832.1	836.4	832.1	827.8	826.8	812.4	793.2	783.7	778.7	768.7	761.3
165°	820.1	824.7	820.1	815.6	814.5	804.2	790.5	783.7	781.4	776.9	773.5
167.5°	811.6	813.5	811.6	809.7	809.2	802.5	793.5	789.0	787.1	783.2	780.4
170°	809.2	809.2	809.2	809.2	809.2	802.5	793.5	789.0	788.9	788.6	788.4
172.5°	802.9	801.3	802.9	804.5	804.9	799.6	792.5	789.0	789.0	789.0	789.0
175°	799.1	799.1	799.1	799.1	799.1	795.7	791.2	789.0	790.0	792.1	793.7
177.5°	795.6	793.7	795.6	797.5	798.0	795.4	791.9	790.1	790.9	792.5	793.7
180°	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7



TEST NUMBER: P935831

CATALOG NUMBER: SQ4-FA-150U-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°	13.8	9.6	5.3	9.6	13.8	14.9	23.5	34.8	40.5	36.0	27.0
92.5°	93.8	57.5	21.3	57.5	93.8	102.8	144.5	200.1	228.0	199.8	143.5
95°	183.7	117.4	51.2	117.4	183.7	200.3	355.7	562.9	666.5	594.7	451.2
97.5°	205.4	146.9	88.4	146.9	205.4	220.0	479.1	824.6	997.3	951.9	861.2
100°	223.3	170.2	117.2	170.2	223.3	236.5	524.0	907.3	1099.0	1102.3	1109.0
102.5°	240.7	191.2	141.7	191.2	240.7	253.1	544.7	933.4	1127.8	1185.5	1301.1
105°	267.1	225.2	183.3	225.2	267.1	277.6	559.9	936.3	1124.5	1254.0	1513.1
107.5°	304.1	265.0	225.9	265.0	304.1	313.8	562.8	894.7	1060.7	1241.3	1602.6
110°	325.3	289.9	254.6	289.9	325.3	334.0	558.5	857.7	1007.4	1209.4	1613.3



TEST NUMBER: P935831

CATALOG NUMBER: SQ4-FA-150U-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°	350.2	316.5	282.9	316.5	350.2	358.6	558.7	825.5	958.9	1165.6	1579.0
115°	387.5	356.5	325.5	356.5	387.5	395.3	563.8	788.5	900.8	1099.9	1498.2
117.5°	424.0	395.8	367.6	395.8	424.0	431.0	574.3	765.4	860.9	1040.6	1400.0
120°	445.1	418.6	392.0	418.6	445.1	451.7	582.8	757.5	844.9	1009.1	1337.5
122.5°	469.6	442.8	416.0	442.8	469.6	476.3	595.1	753.5	832.7	980.5	1276.2
125°	501.6	477.2	452.9	477.2	501.6	507.7	611.6	750.1	819.4	944.9	1196.1
127.5°	531.9	507.3	482.7	507.3	531.9	538.0	628.0	748.1	808.2	916.1	1131.7
130°	551.6	525.1	498.6	525.1	551.6	558.3	640.2	749.3	803.9	899.9	1091.9
132.5°	568.2	541.7	515.1	541.7	568.2	574.8	649.9	750.1	800.1	886.1	1058.0
135°	587.9	563.8	539.6	563.8	587.9	594.0	660.6	749.3	793.7	865.7	1009.7
137.5°	612.5	588.6	564.7	588.6	612.5	618.5	676.6	754.0	792.7	853.5	975.2
140°	629.6	607.5	585.5	607.5	629.6	635.0	686.4	754.8	789.0	841.5	946.6
142.5°	642.1	621.8	601.5	621.8	642.1	647.3	694.5	757.4	789.0	835.2	927.5
145°	661.4	643.8	626.0	643.8	661.4	665.9	705.2	757.5	783.7	821.4	896.9
147.5°	685.0	667.8	650.4	667.8	685.0	689.4	720.8	762.7	783.7	813.4	872.7
150°	697.7	682.1	666.5	682.1	697.7	701.6	728.9	765.4	783.7	808.8	858.9
152.5°	706.6	694.8	683.0	694.8	706.6	709.6	734.3	767.2	783.7	805.1	848.0
155°	725.0	716.3	707.5	716.3	725.0	727.2	746.0	771.1	783.7	800.7	834.8
157.5°	742.6	734.1	725.6	734.1	742.6	744.7	757.7	775.0	783.7	796.9	823.4
160°	751.1	744.5	737.8	744.5	751.1	752.7	763.1	776.8	783.7	795.0	817.7
162.5°	760.0	755.0	750.1	755.0	760.0	761.3	768.7	778.7	783.7	793.2	812.4
165°	772.4	767.9	763.4	767.9	772.4	773.5	776.9	781.4	783.7	790.5	804.2
167.5°	779.9	777.8	775.6	777.8	779.9	780.4	783.2	787.1	789.0	793.5	802.5
170°	787.9	785.8	783.7	785.8	787.9	788.4	788.6	788.9	789.0	793.5	802.5
172.5°	788.9	788.4	787.9	788.4	788.9	789.0	789.0	789.0	789.0	792.5	799.6
175°	793.7	793.7	793.7	793.7	793.7	793.7	792.1	790.0	789.0	791.2	795.7
177.5°	793.7	793.7	793.7	793.7	793.7	793.7	792.5	790.9	790.1	791.9	795.4
180°	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7



TEST NUMBER: P935831

CATALOG NUMBER: SQ4-FA-150U-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°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	27.0	36.0	40.5	34.8
92.5°	101.2	97.2	81.1	65.0	81.1	97.2	101.2	143.5	199.8	228.0	200.1
95°	343.6	331.4	282.6	233.9	282.6	331.4	343.6	451.2	594.7	666.5	562.9
97.5°	793.2	770.0	677.2	584.4	677.2	770.0	793.2	861.2	951.9	997.3	824.6
100°	1114.0	1086.3	975.8	865.1	975.8	1086.3	1114.0	1109.0	1102.3	1099.0	907.3
102.5°	1387.8	1364.1	1269.4	1174.7	1269.4	1364.1	1387.8	1301.1	1185.5	1127.8	933.4
105°	1707.4	1694.7	1643.8	1592.9	1643.8	1694.7	1707.4	1513.1	1254.0	1124.5	936.3
107.5°	1873.6	1876.7	1889.0	1901.3	1889.0	1876.7	1873.6	1602.6	1241.3	1060.7	894.7
110°	1916.2	1929.5	1982.5	2035.6	1982.5	1929.5	1916.2	1613.3	1209.4	1007.4	857.7



TEST NUMBER: P935831

CATALOG NUMBER: SQ4-FA-150U-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°	1889.1	1909.4	1990.9	2072.3	1990.9	1909.4	1889.1	1579.0	1165.6	958.9	825.5
115°	1796.9	1825.2	1938.1	2051.0	1938.1	1825.2	1796.9	1498.2	1099.9	900.8	788.5
117.5°	1669.6	1700.9	1826.1	1951.3	1826.1	1700.9	1669.6	1400.0	1040.6	860.9	765.4
120°	1583.8	1614.2	1735.9	1857.6	1735.9	1614.2	1583.8	1337.5	1009.1	844.9	757.5
122.5°	1498.1	1528.0	1648.1	1768.1	1648.1	1528.0	1498.1	1276.2	980.5	832.7	753.5
125°	1384.5	1412.2	1522.7	1633.3	1522.7	1412.2	1384.5	1196.1	944.9	819.4	750.1
127.5°	1293.5	1316.8	1410.1	1503.4	1410.1	1316.8	1293.5	1131.7	916.1	808.2	748.1
130°	1235.9	1257.4	1343.6	1429.8	1343.6	1257.4	1235.9	1091.9	899.9	803.9	749.3
132.5°	1186.9	1206.2	1283.3	1360.5	1283.3	1206.2	1186.9	1058.0	886.1	800.1	750.1
135°	1117.6	1134.3	1200.8	1267.4	1200.8	1134.3	1117.6	1009.7	865.7	793.7	749.3
137.5°	1066.5	1080.1	1134.6	1189.0	1134.6	1080.1	1066.5	975.2	853.5	792.7	754.0
140°	1025.5	1038.2	1089.1	1140.0	1089.1	1038.2	1025.5	946.6	841.5	789.0	754.8
142.5°	996.8	1007.7	1051.5	1095.2	1051.5	1007.7	996.8	927.5	835.2	789.0	757.4
145°	953.5	961.8	995.1	1028.2	995.1	961.8	953.5	896.9	821.4	783.7	757.5
147.5°	917.3	924.2	951.7	979.2	951.7	924.2	917.3	872.7	813.4	783.7	762.7
150°	896.6	902.1	924.4	946.6	924.4	902.1	896.6	858.9	808.8	783.7	765.4
152.5°	880.1	884.3	901.1	917.8	901.1	884.3	880.1	848.0	805.1	783.7	767.2
155°	860.4	863.2	874.3	885.4	874.3	863.2	860.4	834.8	800.7	783.7	771.1
157.5°	843.3	845.2	853.0	860.9	853.0	845.2	843.3	823.4	796.9	783.7	775.0
160°	834.7	835.8	840.4	844.9	840.4	835.8	834.7	817.7	795.0	783.7	776.8
162.5°	826.8	827.8	832.1	836.4	832.1	827.8	826.8	812.4	793.2	783.7	778.7
165°	814.5	815.6	820.1	824.7	820.1	815.6	814.5	804.2	790.5	783.7	781.4
167.5°	809.2	809.7	811.6	813.5	811.6	809.7	809.2	802.5	793.5	789.0	787.1
170°	809.2	809.2	809.2	809.2	809.2	809.2	809.2	802.5	793.5	789.0	788.9
172.5°	804.9	804.5	802.9	801.3	802.9	804.5	804.9	799.6	792.5	789.0	789.0
175°	799.1	799.1	799.1	799.1	799.1	799.1	799.1	795.7	791.2	789.0	790.0
177.5°	798.0	797.5	795.6	793.7	795.6	797.5	798.0	795.4	791.9	790.1	790.9
180°	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7



TEST NUMBER: P935831

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-2700K

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°	23.5	14.9	13.8	9.6	5.3
92.5°	144.5	102.8	93.8	57.5	21.3
95°	355.7	200.3	183.7	117.4	51.2
97.5°	479.1	220.0	205.4	146.9	88.4
100°	524.0	236.5	223.3	170.2	117.2
102.5°	544.7	253.1	240.7	191.2	141.7
105°	559.9	277.6	267.1	225.2	183.3
107.5°	562.8	313.8	304.1	265.0	225.9
110°	558.5	334.0	325.3	289.9	254.6



TEST NUMBER: P935831

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	558.7	358.6	350.2	316.5	282.9
115°	563.8	395.3	387.5	356.5	325.5
117.5°	574.3	431.0	424.0	395.8	367.6
120°	582.8	451.7	445.1	418.6	392.0
122.5°	595.1	476.3	469.6	442.8	416.0
125°	611.6	507.7	501.6	477.2	452.9
127.5°	628.0	538.0	531.9	507.3	482.7
130°	640.2	558.3	551.6	525.1	498.6
132.5°	649.9	574.8	568.2	541.7	515.1
135°	660.6	594.0	587.9	563.8	539.6
137.5°	676.6	618.5	612.5	588.6	564.7
140°	686.4	635.0	629.6	607.5	585.5
142.5°	694.5	647.3	642.1	621.8	601.5
145°	705.2	665.9	661.4	643.8	626.0
147.5°	720.8	689.4	685.0	667.8	650.4
150°	728.9	701.6	697.7	682.1	666.5
152.5°	734.3	709.6	706.6	694.8	683.0
155°	746.0	727.2	725.0	716.3	707.5
157.5°	757.7	744.7	742.6	734.1	725.6
160°	763.1	752.7	751.1	744.5	737.8
162.5°	768.7	761.3	760.0	755.0	750.1
165°	776.9	773.5	772.4	767.9	763.4
167.5°	783.2	780.4	779.9	777.8	775.6
170°	788.6	788.4	787.9	785.8	783.7
172.5°	789.0	789.0	788.9	788.4	787.9
175°	792.1	793.7	793.7	793.7	793.7
177.5°	792.5	793.7	793.7	793.7	793.7
180°	793.7	793.7	793.7	793.7	793.7



TEST NUMBER: P935831
 CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-2700K

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	7.58	8.24	8.74	9.39	10.99	10.38	11.04	11.54	12.19	13.79
	3H	8.04	8.64	9.21	9.79	11.41	11.70	12.29	12.86	13.44	15.07
	4H	8.22	8.79	9.40	9.94	11.57	12.13	12.69	13.30	13.84	15.47
	6H	8.33	8.85	9.51	10.01	11.64	12.39	12.91	13.57	14.07	15.70
	8H	8.33	8.82	9.51	9.99	11.62	12.46	12.95	13.64	14.12	15.75
	12H	8.29	8.76	9.48	9.92	11.57	12.49	12.95	13.67	14.12	15.77
4H	2H	8.58	9.15	9.76	10.30	11.92	10.76	11.33	11.95	12.48	14.11
	3H	9.59	10.06	10.77	11.24	12.87	12.24	12.71	13.43	13.89	15.53
	4H	9.86	10.29	11.04	11.45	13.11	12.75	13.19	13.94	14.35	16.01
	6H	9.97	10.34	11.16	11.53	13.17	13.10	13.47	14.29	14.66	16.30
	8H	9.97	10.32	11.16	11.50	13.16	13.20	13.54	14.39	14.72	16.39
	12H	9.93	10.24	11.13	11.43	13.10	13.24	13.55	14.44	14.74	16.41
8H	4H	10.29	10.63	11.48	11.81	13.48	12.86	13.21	14.05	14.39	16.05
	6H	10.54	10.83	11.75	12.05	13.71	13.28	13.57	14.49	14.79	16.45
	8H	10.58	10.83	11.80	12.03	13.71	13.43	13.68	14.64	14.88	16.55
	12H	10.56	10.78	11.77	11.97	13.68	13.51	13.73	14.73	14.93	16.64
12H	4H	10.28	10.60	11.49	11.79	13.45	12.82	13.13	14.02	14.32	15.99
	6H	10.60	10.85	11.81	12.05	13.73	13.28	13.53	14.49	14.73	16.41
	8H	10.66	10.88	11.87	12.07	13.78	13.43	13.64	14.64	14.84	16.55