

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: P934385

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934385
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-B2750-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

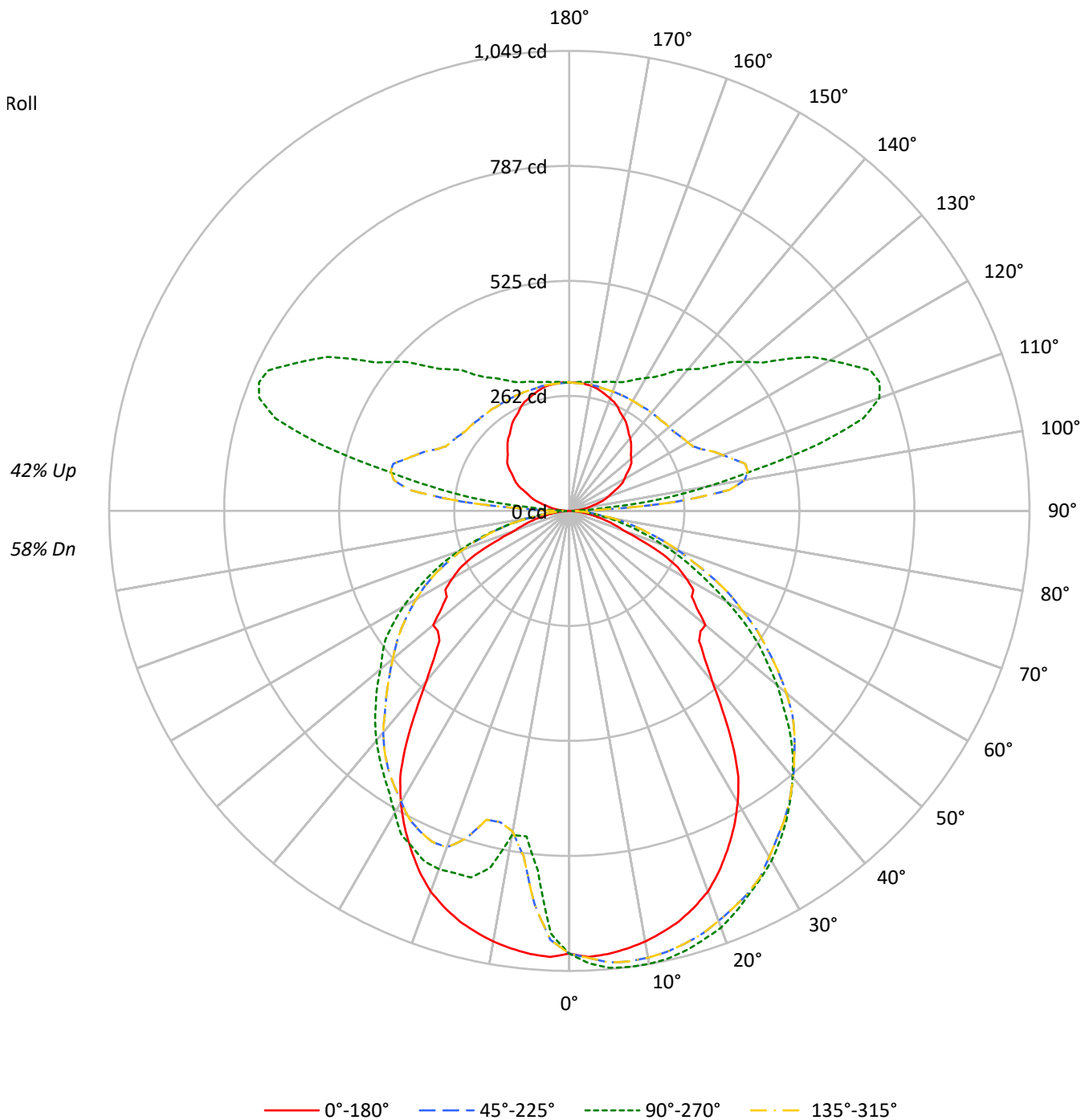
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4520.0 lumens
Efficiency: N/A
Efficacy: 124.2 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

TEST NUMBER: P934385
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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	50	30	10	0
RCR																					
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9367	9367	9367	9367
5°	9427	9457	9427	7436
10°	9354	9316	9354	6660
15°	9242	9114	9242	7609
20°	9038	8874	9038	7625
25°	8632	8526	8632	7464
30°	8111	8236	8111	7109
35°	7220	7870	7220	6719
40°	6006	7439	6006	6425
45°	5357	6934	5357	6086
50°	5677	6332	5677	5746
55°	5326	5684	5326	5550
60°	5470	4828	5470	5083
65°	4935	3990	4935	4461
70°	3394	3179	3394	3739
75°	2945	2350	2945	2814
80°	2326	1555	2326	1692
85°	1267	823	1267	700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8225 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	2.0
10°-20°	258.7	5.7
20°-30°	400.0	8.8
30°-40°	477.5	10.6
40°-50°	480.3	10.6
50°-60°	417.9	9.2
60°-70°	296.3	6.6
70°-80°	156.7	3.5
80°-90°	40.2	0.9
90°-100°	142.9	3.2
100°-110°	375.9	8.3
110°-120°	389.7	8.6
120°-130°	312.6	6.9
130°-140°	245.3	5.4
140°-150°	188.3	4.2
150°-160°	135.6	3.0
160°-170°	83.0	1.8
170°-180°	28.0	0.6
0°-30°	749.8	16.6
0°-40°	1227.3	27.2
0°-60°	2125.6	47.0
0°-90°	2618.7	57.9
90°-120°	908.5	20.1
90°-150°	1654.7	36.6
90°-180°	1901.0	42.1
0°-180°	4520.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1010	1010	1010	1010	1010	
5°	1014	1046	1014	822	1014	96
15°	968	1036	968	865	968	272
25°	853	967	853	846	853	392
35°	648	862	648	736	648	401
45°	418	711	418	624	418	335
55°	341	524	341	512	341	313
65°	237	316	237	353	237	226
75°	90	150	90	180	90	94
85°	15	38	15	32	15	21
90°	2	7	2	7	2	2
95°	19	86	19	86	19	21
105°	68	589	68	589	68	72
115°	120	758	120	758	120	119
125°	167	604	167	604	167	149
135°	199	468	199	468	199	154
145°	231	380	231	380	231	145
155°	261	327	261	327	261	120
165°	282	305	282	305	282	80
175°	293	293	293	293	293	28
180°	293	293	293	293	293	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1018.1	1018.1	1024.0	1025.9	1025.9	1023.0	1020.1	1023.0	1031.6	1034.5	1033.5
5°	1014.3	1022.0	1032.5	1034.5	1036.4	1035.4	1033.5	1035.4	1045.0	1046.9	1047.8
7.5°	1006.7	1021.1	1034.5	1037.3	1040.2	1037.3	1036.4	1038.3	1047.8	1049.7	1049.7
10°	997.1	1017.2	1032.5	1034.5	1037.3	1034.5	1034.5	1038.3	1047.8	1049.7	1050.7
12.5°	983.7	1011.4	1025.9	1027.8	1031.6	1030.6	1029.7	1033.5	1043.1	1045.0	1045.0
15°	968.5	1000.9	1014.3	1016.2	1023.0	1021.1	1021.1	1024.9	1035.4	1038.3	1037.3
17.5°	947.5	987.6	1002.8	1005.7	1010.5	1009.5	1010.5	1014.3	1024.0	1025.9	1026.8
20°	923.6	969.4	987.6	990.4	995.2	995.2	995.2	1000.0	1009.5	1013.4	1013.4
22.5°	891.1	950.3	969.4	971.3	977.1	977.1	979.0	985.7	994.3	995.2	995.2
25°	852.9	929.3	945.5	951.3	957.0	959.9	962.7	966.6	969.4	968.5	969.4
27.5°	812.8	902.6	923.6	927.4	935.0	937.9	941.7	942.7	943.6	946.5	944.6
30°	767.9	865.3	896.8	900.7	913.1	915.0	911.2	913.1	917.9	919.8	921.7
32.5°	717.3	809.9	869.1	877.7	889.2	883.5	882.5	885.4	893.0	893.0	894.9
35°	648.5	767.0	843.4	851.0	859.6	852.9	856.7	857.7	862.5	865.3	864.4
37.5°	573.1	729.7	816.6	822.4	829.0	820.4	826.2	829.0	832.9	830.9	830.9
40°	506.2	671.5	785.1	788.9	794.7	788.0	793.7	795.6	797.5	795.6	794.7
42.5°	456.6	607.5	751.7	756.5	752.6	757.4	759.3	763.1	760.3	756.5	756.5
45°	418.4	590.3	715.4	721.1	715.4	723.0	725.9	725.9	717.3	715.4	714.4
47.5°	406.0	555.9	679.1	679.1	676.2	685.8	690.6	683.9	675.3	672.4	672.4
50°	405.0	517.7	629.4	625.6	639.0	650.5	645.7	639.0	632.3	621.8	621.8
52.5°	367.8	470.9	565.5	579.8	600.8	607.5	599.8	593.2	581.7	576.9	573.1
55°	341.0	422.2	507.2	535.9	557.8	566.4	552.1	545.4	528.2	525.3	523.4
57.5°	335.2	351.5	453.7	490.0	516.8	515.8	507.2	494.8	480.5	477.6	476.6
60°	307.5	254.0	396.4	439.4	467.1	464.2	456.6	445.1	431.8	429.8	427.9
62.5°	278.9	184.3	331.4	380.2	419.3	418.4	411.7	394.5	385.0	380.2	376.4
65°	236.8	154.7	235.9	316.1	372.5	374.5	360.1	347.7	337.1	331.4	330.4
67.5°	180.5	126.1	159.5	263.6	327.6	325.7	307.5	301.8	288.4	285.5	279.8
70°	133.7	84.0	110.8	213.9	283.6	278.9	264.5	257.8	245.4	238.8	234.9
72.5°	110.8	67.8	81.2	166.2	238.8	233.0	220.6	213.0	202.5	196.7	192.9
75°	89.8	71.6	62.1	123.2	193.9	190.0	178.6	170.9	162.4	154.7	155.7
77.5°	65.9	66.8	49.7	90.7	153.8	148.0	141.3	131.8	128.0	120.3	120.3
80°	49.7	52.5	37.2	62.1	110.8	110.8	105.0	98.4	91.7	87.9	87.9
82.5°	33.4	33.4	27.7	39.2	75.4	72.6	68.8	66.8	63.0	61.1	61.1
85°	15.3	19.1	17.2	23.9	41.1	43.0	43.0	41.1	40.1	38.2	39.2
87.5°	4.8	8.6	10.5	13.4	21.0	22.0	22.9	22.9	22.9	23.9	23.9
90°	2.0	3.5	5.2	5.5	8.7	12.9	15.0	13.3	9.9	7.4	7.4
92.5°	7.8	21.2	34.7	38.0	53.4	73.9	84.2	73.8	53.0	37.4	35.9
95°	18.9	43.4	67.9	74.0	131.4	207.9	246.2	219.6	166.6	126.9	122.4
97.5°	32.7	54.2	75.8	81.3	177.0	304.6	368.4	351.7	318.2	293.1	284.5
100°	43.3	62.8	82.5	87.4	193.6	335.2	406.1	407.3	409.8	411.6	401.4
102.5°	52.3	70.7	88.9	93.5	201.2	344.9	416.7	438.1	480.7	512.7	504.0
105°	67.7	83.2	98.7	102.6	206.9	346.0	415.5	463.4	559.1	630.9	626.2
107.5°	83.5	97.9	112.3	115.9	207.9	330.6	391.9	458.7	592.2	692.3	693.4
110°	94.1	107.1	120.1	123.4	206.4	317.0	372.3	446.8	596.1	708.0	712.9



TEST NUMBER: P934385

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	104.5	116.9	129.3	132.5	206.4	305.0	354.3	430.7	583.4	698.0	705.6
115°	120.2	131.7	143.2	146.0	208.3	291.3	332.8	406.4	553.5	663.9	674.3
117.5°	135.8	146.2	156.6	159.2	212.2	282.8	318.1	384.5	517.2	616.8	628.4
120°	144.9	154.7	164.5	166.9	215.4	279.9	312.2	372.8	494.2	585.2	596.5
122.5°	153.8	163.7	173.5	176.0	219.8	278.4	307.6	362.2	471.6	553.5	564.6
125°	167.3	176.3	185.3	187.6	226.0	277.1	302.7	349.1	442.0	511.6	521.8
127.5°	178.3	187.5	196.5	198.8	232.1	276.5	298.6	338.5	418.1	477.9	486.5
130°	184.2	194.1	203.8	206.3	236.6	276.9	297.0	332.5	403.5	456.7	464.6
132.5°	190.3	200.2	209.9	212.4	240.2	277.1	295.7	327.4	390.9	438.5	445.7
135°	199.4	208.3	217.3	219.5	244.1	276.9	293.3	319.8	373.0	412.9	419.1
137.5°	208.7	217.5	226.3	228.5	250.0	278.6	292.9	315.3	360.3	394.0	399.1
140°	216.3	224.4	232.6	234.6	253.6	278.9	291.5	310.9	349.8	378.9	383.6
142.5°	222.2	229.8	237.2	239.1	256.6	279.8	291.5	308.6	342.7	368.2	372.3
145°	231.3	237.8	244.4	246.0	260.5	279.9	289.6	303.5	331.4	352.3	355.4
147.5°	240.4	246.8	253.1	254.7	266.3	281.8	289.6	300.5	322.5	338.9	341.5
150°	246.2	251.9	257.8	259.2	269.3	282.8	289.6	298.8	317.3	331.3	333.4
152.5°	252.3	256.7	261.1	262.1	271.3	283.4	289.6	297.5	313.3	325.2	326.7
155°	261.4	264.6	267.9	268.6	275.6	284.9	289.6	295.9	308.5	317.9	319.0
157.5°	268.1	271.2	274.4	275.1	279.9	286.3	289.6	294.4	304.3	311.6	312.4
160°	272.7	275.0	277.5	278.1	281.9	287.0	289.6	293.8	302.2	308.5	308.8
162.5°	277.1	279.0	280.8	281.2	284.0	287.7	289.6	293.1	300.2	305.5	305.9
165°	282.1	283.7	285.4	285.8	287.1	288.7	289.6	292.0	297.1	300.9	301.3
167.5°	286.6	287.4	288.1	288.3	289.4	290.8	291.5	293.2	296.5	299.0	299.2
170°	289.6	290.3	291.1	291.3	291.4	291.5	291.5	293.2	296.5	299.0	299.0
172.5°	291.1	291.3	291.5	291.5	291.5	291.5	291.5	292.8	295.4	297.4	297.2
175°	293.3	293.3	293.3	293.3	292.7	291.8	291.5	292.3	294.0	295.3	295.3
177.5°	293.3	293.3	293.3	293.3	292.8	292.2	291.9	292.6	293.9	294.9	294.7
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1035.4	1032.5	1035.4	1033.5	1034.5	1031.6	1023.0	1020.1	1023.0	1025.9	1025.9
5°	1047.8	1045.9	1047.8	1047.8	1046.9	1045.0	1035.4	1033.5	1035.4	1036.4	1034.5
7.5°	1051.6	1048.8	1051.6	1049.7	1049.7	1047.8	1038.3	1036.4	1037.3	1040.2	1037.3
10°	1051.6	1048.8	1051.6	1050.7	1049.7	1047.8	1038.3	1034.5	1034.5	1037.3	1034.5
12.5°	1046.9	1045.0	1046.9	1045.0	1045.0	1043.1	1033.5	1029.7	1030.6	1031.6	1027.8
15°	1039.2	1036.4	1039.2	1037.3	1038.3	1035.4	1024.9	1021.1	1021.1	1023.0	1016.2
17.5°	1027.8	1024.0	1027.8	1026.8	1025.9	1024.0	1014.3	1010.5	1009.5	1010.5	1005.7
20°	1014.3	1011.4	1014.3	1013.4	1013.4	1009.5	1000.0	995.2	995.2	995.2	990.4
22.5°	993.3	990.4	993.3	995.2	995.2	994.3	985.7	979.0	977.1	977.1	971.3
25°	969.4	966.6	969.4	969.4	968.5	969.4	966.6	962.7	959.9	957.0	951.3
27.5°	946.5	944.6	946.5	944.6	946.5	943.6	942.7	941.7	937.9	935.0	927.4
30°	923.6	921.7	923.6	921.7	919.8	917.9	913.1	911.2	915.0	913.1	900.7
32.5°	894.9	893.0	894.9	894.9	893.0	893.0	885.4	882.5	883.5	889.2	877.7
35°	865.3	862.5	865.3	864.4	865.3	862.5	857.7	856.7	852.9	859.6	851.0
37.5°	830.9	828.1	830.9	830.9	830.9	832.9	829.0	826.2	820.4	829.0	822.4
40°	795.6	791.8	795.6	794.7	795.6	797.5	795.6	793.7	788.0	794.7	788.9
42.5°	755.5	754.5	755.5	756.5	756.5	760.3	763.1	759.3	757.4	752.6	756.5
45°	712.5	710.6	712.5	714.4	715.4	717.3	725.9	725.9	723.0	715.4	721.1
47.5°	666.7	661.9	666.7	672.4	672.4	675.3	683.9	690.6	685.8	676.2	679.1
50°	618.0	618.9	618.0	621.8	621.8	632.3	639.0	645.7	650.5	639.0	625.6
52.5°	570.2	569.3	570.2	573.1	576.9	581.7	593.2	599.8	607.5	600.8	579.8
55°	522.5	524.4	522.5	523.4	525.3	528.2	545.4	552.1	566.4	557.8	535.9
57.5°	474.7	471.9	474.7	476.6	477.6	480.5	494.8	507.2	515.8	516.8	490.0
60°	419.3	415.5	419.3	427.9	429.8	431.8	445.1	456.6	464.2	467.1	439.4
62.5°	370.6	364.0	370.6	376.4	380.2	385.0	394.5	411.7	418.4	419.3	380.2
65°	319.0	316.1	319.0	330.4	331.4	337.1	347.7	360.1	374.5	372.5	316.1
67.5°	272.2	272.2	272.2	279.8	285.5	288.4	301.8	307.5	325.7	327.6	263.6
70°	229.2	228.2	229.2	234.9	238.8	245.4	257.8	264.5	278.9	283.6	213.9
72.5°	188.1	187.2	188.1	192.9	196.7	202.5	213.0	220.6	233.0	238.8	166.2
75°	151.8	149.9	151.8	155.7	154.7	162.4	170.9	178.6	190.0	193.9	123.2
77.5°	116.5	116.5	116.5	120.3	120.3	128.0	131.8	141.3	148.0	153.8	90.7
80°	86.9	86.0	86.9	87.9	87.9	91.7	98.4	105.0	110.8	110.8	62.1
82.5°	61.1	59.2	61.1	61.1	61.1	63.0	66.8	68.8	72.6	75.4	39.2
85°	38.2	38.2	38.2	39.2	38.2	40.1	41.1	43.0	43.0	41.1	23.9
87.5°	24.8	23.9	24.8	23.9	23.9	22.9	22.9	22.9	22.0	21.0	13.4
90°	7.4	7.4	7.4	7.4	7.4	9.9	13.3	15.0	12.9	8.7	5.5
92.5°	30.0	24.0	30.0	35.9	37.4	53.0	73.8	84.2	73.9	53.4	38.0
95°	104.4	86.4	104.4	122.4	126.9	166.6	219.6	246.2	207.9	131.4	74.0
97.5°	250.2	215.9	250.2	284.5	293.1	318.2	351.7	368.4	304.6	177.0	81.3
100°	360.5	319.6	360.5	401.4	411.6	409.8	407.3	406.1	335.2	193.6	87.4
102.5°	469.0	434.0	469.0	504.0	512.7	480.7	438.1	416.7	344.9	201.2	93.5
105°	607.4	588.6	607.4	626.2	630.9	559.1	463.4	415.5	346.0	206.9	102.6
107.5°	697.9	702.5	697.9	693.4	692.3	592.2	458.7	391.9	330.6	207.9	115.9
110°	732.5	752.1	732.5	712.9	708.0	596.1	446.8	372.3	317.0	206.4	123.4



TEST NUMBER: P934385

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	735.6	765.7	735.6	705.6	698.0	583.4	430.7	354.3	305.0	206.4	132.5
115°	716.1	757.8	716.1	674.3	663.9	553.5	406.4	332.8	291.3	208.3	146.0
117.5°	674.7	721.0	674.7	628.4	616.8	517.2	384.5	318.1	282.8	212.2	159.2
120°	641.4	686.4	641.4	596.5	585.2	494.2	372.8	312.2	279.9	215.4	166.9
122.5°	609.0	653.3	609.0	564.6	553.5	471.6	362.2	307.6	278.4	219.8	176.0
125°	562.6	603.5	562.6	521.8	511.6	442.0	349.1	302.7	277.1	226.0	187.6
127.5°	521.0	555.4	521.0	486.5	477.9	418.1	338.5	298.6	276.5	232.1	198.8
130°	496.5	528.3	496.5	464.6	456.7	403.5	332.5	297.0	276.9	236.6	206.3
132.5°	474.2	502.7	474.2	445.7	438.5	390.9	327.4	295.7	277.1	240.2	212.4
135°	443.7	468.2	443.7	419.1	412.9	373.0	319.8	293.3	276.9	244.1	219.5
137.5°	419.1	439.3	419.1	399.1	394.0	360.3	315.3	292.9	278.6	250.0	228.5
140°	402.4	421.3	402.4	383.6	378.9	349.8	310.9	291.5	278.9	253.6	234.6
142.5°	388.5	404.7	388.5	372.3	368.2	342.7	308.6	291.5	279.8	256.6	239.1
145°	367.7	379.9	367.7	355.4	352.3	331.4	303.5	289.6	279.9	260.5	246.0
147.5°	351.6	361.8	351.6	341.5	338.9	322.5	300.5	289.6	281.8	266.3	254.7
150°	341.6	349.8	341.6	333.4	331.3	317.3	298.8	289.6	282.8	269.3	259.2
152.5°	332.9	339.1	332.9	326.7	325.2	313.3	297.5	289.6	283.4	271.3	262.1
155°	323.1	327.2	323.1	319.0	317.9	308.5	295.9	289.6	284.9	275.6	268.6
157.5°	315.2	318.1	315.2	312.4	311.6	304.3	294.4	289.6	286.3	279.9	275.1
160°	310.6	312.2	310.6	308.8	308.5	302.2	293.8	289.6	287.0	281.9	278.1
162.5°	307.5	309.0	307.5	305.9	305.5	300.2	293.1	289.6	287.7	284.0	281.2
165°	303.0	304.7	303.0	301.3	300.9	297.1	292.0	289.6	288.7	287.1	285.8
167.5°	299.9	300.5	299.9	299.2	299.0	296.5	293.2	291.5	290.8	289.4	288.3
170°	299.0	299.0	299.0	299.0	299.0	296.5	293.2	291.5	291.5	291.4	291.3
172.5°	296.6	296.0	296.6	297.2	297.4	295.4	292.8	291.5	291.5	291.5	291.5
175°	295.3	295.3	295.3	295.3	295.3	294.0	292.3	291.5	291.8	292.7	293.3
177.5°	294.0	293.3	294.0	294.7	294.9	293.9	292.6	291.9	292.2	292.8	293.3
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P934385

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1024.0	1018.1	1018.1	1008.6	1004.8	1001.9	997.1	982.8	979.0	975.2	980.9
5°	1032.5	1022.0	1014.3	997.1	982.8	977.1	958.9	924.5	901.6	884.4	874.9
7.5°	1034.5	1021.1	1006.7	979.9	945.5	930.3	874.9	811.8	794.7	779.4	769.8
10°	1032.5	1017.2	997.1	957.0	875.8	849.1	793.7	752.6	742.1	739.3	742.1
12.5°	1025.9	1011.4	983.7	916.9	803.3	785.1	752.6	728.8	726.9	731.6	757.4
15°	1014.3	1000.9	968.5	863.4	763.1	749.8	726.9	718.3	728.8	762.2	839.5
17.5°	1002.8	987.6	947.5	810.9	732.6	723.0	706.8	724.0	783.2	828.1	853.9
20°	987.6	969.4	923.6	772.7	710.6	702.0	694.4	771.7	816.6	832.9	847.2
22.5°	969.4	950.3	891.1	746.0	687.7	681.0	685.8	798.5	816.6	828.1	840.5
25°	945.5	929.3	852.9	724.9	669.6	661.9	680.1	795.6	806.1	809.0	833.8
27.5°	923.6	902.6	812.8	705.8	647.6	644.7	684.8	783.2	790.8	793.7	820.4
30°	896.8	865.3	767.9	685.8	624.7	623.7	685.8	767.9	766.0	773.6	800.4
32.5°	869.1	809.9	717.3	661.0	602.7	601.7	679.1	745.0	743.1	753.6	773.6
35°	843.4	767.0	648.5	632.3	575.0	576.0	662.9	718.3	719.2	728.8	741.2
37.5°	816.6	729.7	573.1	600.8	548.3	548.3	640.9	693.4	691.5	694.4	711.6
40°	785.1	671.5	506.2	559.7	523.4	520.6	614.2	666.7	660.0	659.0	682.9
42.5°	751.7	607.5	456.6	505.3	494.8	491.0	581.7	634.2	621.8	624.7	655.2
45°	715.4	590.3	418.4	427.0	465.2	462.3	546.4	597.0	588.4	596.0	627.5
47.5°	679.1	555.9	406.0	354.4	433.7	432.7	507.2	560.7	555.9	563.5	597.0
50°	629.4	517.7	405.0	303.7	398.3	402.2	460.4	525.3	525.3	532.0	567.4
52.5°	565.5	470.9	367.8	275.0	357.3	368.7	419.3	494.8	496.7	503.4	534.9
55°	507.2	422.2	341.0	253.1	308.5	333.3	379.2	463.3	467.1	473.8	502.4
57.5°	453.7	351.5	335.2	227.3	263.6	287.5	343.9	432.7	434.6	440.4	468.0
60°	396.4	254.0	307.5	199.6	224.4	242.6	311.3	396.4	403.1	406.9	430.8
62.5°	331.4	184.3	278.9	180.5	205.3	209.1	284.6	362.0	370.6	373.5	387.8
65°	235.9	154.7	236.8	164.3	185.3	186.2	255.9	326.6	334.2	339.0	349.6
67.5°	159.5	126.1	180.5	149.0	170.0	170.9	228.2	285.5	296.0	299.9	306.6
70°	110.8	84.0	133.7	132.7	152.8	154.7	198.6	248.3	257.8	260.7	264.5
72.5°	81.2	67.8	110.8	119.4	134.7	136.6	168.1	206.3	215.8	218.7	220.6
75°	62.1	71.6	89.8	104.1	114.6	115.6	137.5	168.1	174.8	176.7	177.6
77.5°	49.7	66.8	65.9	84.0	93.6	91.7	107.9	129.9	135.6	135.6	135.6
80°	37.2	52.5	49.7	60.2	68.8	66.8	77.4	92.6	94.5	96.5	95.5
82.5°	27.7	33.4	33.4	38.2	45.8	43.9	51.6	60.2	60.2	60.2	62.1
85°	17.2	19.1	15.3	20.1	25.8	24.8	28.6	32.5	33.4	33.4	31.5
87.5°	10.5	8.6	4.8	7.6	11.5	11.5	13.4	14.3	13.4	13.4	13.4
90°	5.2	3.5	2.0	3.5	5.2	5.5	8.7	12.9	15.0	13.3	9.9
92.5°	34.7	21.2	7.8	21.2	34.7	38.0	53.4	73.9	84.2	73.8	53.0
95°	67.9	43.4	18.9	43.4	67.9	74.0	131.4	207.9	246.2	219.6	166.6
97.5°	75.8	54.2	32.7	54.2	75.8	81.3	177.0	304.6	368.4	351.7	318.2
100°	82.5	62.8	43.3	62.8	82.5	87.4	193.6	335.2	406.1	407.3	409.8
102.5°	88.9	70.7	52.3	70.7	88.9	93.5	201.2	344.9	416.7	438.1	480.7
105°	98.7	83.2	67.7	83.2	98.7	102.6	206.9	346.0	415.5	463.4	559.1
107.5°	112.3	97.9	83.5	97.9	112.3	115.9	207.9	330.6	391.9	458.7	592.2
110°	120.1	107.1	94.1	107.1	120.1	123.4	206.4	317.0	372.3	446.8	596.1



TEST NUMBER: P934385

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	129.3	116.9	104.5	116.9	129.3	132.5	206.4	305.0	354.3	430.7	583.4
115°	143.2	131.7	120.2	131.7	143.2	146.0	208.3	291.3	332.8	406.4	553.5
117.5°	156.6	146.2	135.8	146.2	156.6	159.2	212.2	282.8	318.1	384.5	517.2
120°	164.5	154.7	144.9	154.7	164.5	166.9	215.4	279.9	312.2	372.8	494.2
122.5°	173.5	163.7	153.8	163.7	173.5	176.0	219.8	278.4	307.6	362.2	471.6
125°	185.3	176.3	167.3	176.3	185.3	187.6	226.0	277.1	302.7	349.1	442.0
127.5°	196.5	187.5	178.3	187.5	196.5	198.8	232.1	276.5	298.6	338.5	418.1
130°	203.8	194.1	184.2	194.1	203.8	206.3	236.6	276.9	297.0	332.5	403.5
132.5°	209.9	200.2	190.3	200.2	209.9	212.4	240.2	277.1	295.7	327.4	390.9
135°	217.3	208.3	199.4	208.3	217.3	219.5	244.1	276.9	293.3	319.8	373.0
137.5°	226.3	217.5	208.7	217.5	226.3	228.5	250.0	278.6	292.9	315.3	360.3
140°	232.6	224.4	216.3	224.4	232.6	234.6	253.6	278.9	291.5	310.9	349.8
142.5°	237.2	229.8	222.2	229.8	237.2	239.1	256.6	279.8	291.5	308.6	342.7
145°	244.4	237.8	231.3	237.8	244.4	246.0	260.5	279.9	289.6	303.5	331.4
147.5°	253.1	246.8	240.4	246.8	253.1	254.7	266.3	281.8	289.6	300.5	322.5
150°	257.8	251.9	246.2	251.9	257.8	259.2	269.3	282.8	289.6	298.8	317.3
152.5°	261.1	256.7	252.3	256.7	261.1	262.1	271.3	283.4	289.6	297.5	313.3
155°	267.9	264.6	261.4	264.6	267.9	268.6	275.6	284.9	289.6	295.9	308.5
157.5°	274.4	271.2	268.1	271.2	274.4	275.1	279.9	286.3	289.6	294.4	304.3
160°	277.5	275.0	272.7	275.0	277.5	278.1	281.9	287.0	289.6	293.8	302.2
162.5°	280.8	279.0	277.1	279.0	280.8	281.2	284.0	287.7	289.6	293.1	300.2
165°	285.4	283.7	282.1	283.7	285.4	285.8	287.1	288.7	289.6	292.0	297.1
167.5°	288.1	287.4	286.6	287.4	288.1	288.3	289.4	290.8	291.5	293.2	296.5
170°	291.1	290.3	289.6	290.3	291.1	291.3	291.4	291.5	291.5	293.2	296.5
172.5°	291.5	291.3	291.1	291.3	291.5	291.5	291.5	291.5	291.5	292.8	295.4
175°	293.3	293.3	293.3	293.3	293.3	293.3	292.7	291.8	291.5	292.3	294.0
177.5°	293.3	293.3	293.3	293.3	293.3	293.3	292.8	292.2	291.9	292.6	293.9
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P934385

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	974.2	971.3	975.2	964.6	975.2	971.3	974.2	980.9	975.2	979.0	982.8
5°	854.8	850.0	834.8	822.4	834.8	850.0	854.8	874.9	884.4	901.6	924.5
7.5°	764.1	760.3	756.5	748.8	756.5	760.3	764.1	769.8	779.4	794.7	811.8
10°	744.0	745.0	750.7	749.8	750.7	745.0	744.0	742.1	739.3	742.1	752.6
12.5°	795.6	804.2	835.7	833.8	835.7	804.2	795.6	757.4	731.6	726.9	728.8
15°	854.8	857.7	864.4	865.3	864.4	857.7	854.8	839.5	762.2	728.8	718.3
17.5°	860.6	861.5	866.3	866.3	866.3	861.5	860.6	853.9	828.1	783.2	724.0
20°	855.8	857.7	867.2	869.1	867.2	857.7	855.8	847.2	832.9	816.6	771.7
22.5°	853.9	857.7	865.3	864.4	865.3	857.7	853.9	840.5	828.1	816.6	798.5
25°	844.3	844.3	845.3	846.2	845.3	844.3	844.3	833.8	809.0	806.1	795.6
27.5°	824.3	826.2	831.9	830.9	831.9	826.2	824.3	820.4	793.7	790.8	783.2
30°	806.1	804.2	799.4	795.6	799.4	804.2	806.1	800.4	773.6	766.0	767.9
32.5°	775.6	770.8	766.0	763.1	766.0	770.8	775.6	773.6	753.6	743.1	745.0
35°	739.3	740.2	739.3	736.4	739.3	740.2	739.3	741.2	728.8	719.2	718.3
37.5°	713.5	715.4	714.4	710.6	714.4	715.4	713.5	711.6	694.4	691.5	693.4
40°	686.7	687.7	686.7	683.9	686.7	687.7	686.7	682.9	659.0	660.0	666.7
42.5°	661.0	660.0	657.1	655.2	657.1	660.0	661.0	655.2	624.7	621.8	634.2
45°	631.4	632.3	626.6	623.7	626.6	632.3	631.4	627.5	596.0	588.4	597.0
47.5°	601.7	601.7	597.0	594.1	597.0	601.7	601.7	597.0	563.5	555.9	560.7
50°	570.2	569.3	562.6	561.6	562.6	569.3	570.2	567.4	532.0	525.3	525.3
52.5°	533.9	533.9	534.9	536.8	534.9	533.9	533.9	534.9	503.4	496.7	494.8
55°	502.4	503.4	510.1	512.0	510.1	503.4	502.4	502.4	473.8	467.1	463.3
57.5°	470.0	470.0	474.7	474.7	474.7	470.0	470.0	468.0	440.4	434.6	432.7
60°	432.7	434.6	438.4	437.5	438.4	434.6	432.7	430.8	406.9	403.1	396.4
62.5°	393.6	395.5	396.4	394.5	396.4	395.5	393.6	387.8	373.5	370.6	362.0
65°	352.5	354.4	355.4	353.4	355.4	354.4	352.5	349.6	339.0	334.2	326.6
67.5°	310.4	309.4	308.5	312.3	308.5	309.4	310.4	306.6	299.9	296.0	285.5
70°	267.4	267.4	266.4	268.4	266.4	267.4	267.4	264.5	260.7	257.8	248.3
72.5°	221.6	220.6	224.4	221.6	224.4	220.6	221.6	220.6	218.7	215.8	206.3
75°	176.7	178.6	176.7	179.5	176.7	178.6	176.7	177.6	176.7	174.8	168.1
77.5°	134.7	136.6	134.7	134.7	134.7	136.6	134.7	135.6	135.6	135.6	129.9
80°	95.5	94.5	94.5	93.6	94.5	94.5	95.5	95.5	96.5	94.5	92.6
82.5°	61.1	60.2	60.2	62.1	60.2	60.2	61.1	62.1	60.2	60.2	60.2
85°	33.4	34.4	32.5	32.5	32.5	34.4	33.4	31.5	33.4	33.4	32.5
87.5°	12.4	11.5	11.5	11.5	11.5	11.5	12.4	13.4	13.4	13.4	14.3
90°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.9	13.3	15.0	12.9
92.5°	37.4	35.9	30.0	24.0	30.0	35.9	37.4	53.0	73.8	84.2	73.9
95°	126.9	122.4	104.4	86.4	104.4	122.4	126.9	166.6	219.6	246.2	207.9
97.5°	293.1	284.5	250.2	215.9	250.2	284.5	293.1	318.2	351.7	368.4	304.6
100°	411.6	401.4	360.5	319.6	360.5	401.4	411.6	409.8	407.3	406.1	335.2
102.5°	512.7	504.0	469.0	434.0	469.0	504.0	512.7	480.7	438.1	416.7	344.9
105°	630.9	626.2	607.4	588.6	607.4	626.2	630.9	559.1	463.4	415.5	346.0
107.5°	692.3	693.4	697.9	702.5	697.9	693.4	692.3	592.2	458.7	391.9	330.6
110°	708.0	712.9	732.5	752.1	732.5	712.9	708.0	596.1	446.8	372.3	317.0



TEST NUMBER: P934385

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	698.0	705.6	735.6	765.7	735.6	705.6	698.0	583.4	430.7	354.3	305.0
115°	663.9	674.3	716.1	757.8	716.1	674.3	663.9	553.5	406.4	332.8	291.3
117.5°	616.8	628.4	674.7	721.0	674.7	628.4	616.8	517.2	384.5	318.1	282.8
120°	585.2	596.5	641.4	686.4	641.4	596.5	585.2	494.2	372.8	312.2	279.9
122.5°	553.5	564.6	609.0	653.3	609.0	564.6	553.5	471.6	362.2	307.6	278.4
125°	511.6	521.8	562.6	603.5	562.6	521.8	511.6	442.0	349.1	302.7	277.1
127.5°	477.9	486.5	521.0	555.4	521.0	486.5	477.9	418.1	338.5	298.6	276.5
130°	456.7	464.6	496.5	528.3	496.5	464.6	456.7	403.5	332.5	297.0	276.9
132.5°	438.5	445.7	474.2	502.7	474.2	445.7	438.5	390.9	327.4	295.7	277.1
135°	412.9	419.1	443.7	468.2	443.7	419.1	412.9	373.0	319.8	293.3	276.9
137.5°	394.0	399.1	419.1	439.3	419.1	399.1	394.0	360.3	315.3	292.9	278.6
140°	378.9	383.6	402.4	421.3	402.4	383.6	378.9	349.8	310.9	291.5	278.9
142.5°	368.2	372.3	388.5	404.7	388.5	372.3	368.2	342.7	308.6	291.5	279.8
145°	352.3	355.4	367.7	379.9	367.7	355.4	352.3	331.4	303.5	289.6	279.9
147.5°	338.9	341.5	351.6	361.8	351.6	341.5	338.9	322.5	300.5	289.6	281.8
150°	331.3	333.4	341.6	349.8	341.6	333.4	331.3	317.3	298.8	289.6	282.8
152.5°	325.2	326.7	332.9	339.1	332.9	326.7	325.2	313.3	297.5	289.6	283.4
155°	317.9	319.0	323.1	327.2	323.1	319.0	317.9	308.5	295.9	289.6	284.9
157.5°	311.6	312.4	315.2	318.1	315.2	312.4	311.6	304.3	294.4	289.6	286.3
160°	308.5	308.8	310.6	312.2	310.6	308.8	308.5	302.2	293.8	289.6	287.0
162.5°	305.5	305.9	307.5	309.0	307.5	305.9	305.5	300.2	293.1	289.6	287.7
165°	300.9	301.3	303.0	304.7	303.0	301.3	300.9	297.1	292.0	289.6	288.7
167.5°	299.0	299.2	299.9	300.5	299.9	299.2	299.0	296.5	293.2	291.5	290.8
170°	299.0	299.0	299.0	299.0	299.0	299.0	299.0	296.5	293.2	291.5	291.5
172.5°	297.4	297.2	296.6	296.0	296.6	297.2	297.4	295.4	292.8	291.5	291.5
175°	295.3	295.3	295.3	295.3	295.3	295.3	295.3	294.0	292.3	291.5	291.8
177.5°	294.9	294.7	294.0	293.3	294.0	294.7	294.9	293.9	292.6	291.9	292.2
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P934385

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	997.1	1001.9	1004.8	1008.6	1018.1
5°	958.9	977.1	982.8	997.1	1014.3
7.5°	874.9	930.3	945.5	979.9	1006.7
10°	793.7	849.1	875.8	957.0	997.1
12.5°	752.6	785.1	803.3	916.9	983.7
15°	726.9	749.8	763.1	863.4	968.5
17.5°	706.8	723.0	732.6	810.9	947.5
20°	694.4	702.0	710.6	772.7	923.6
22.5°	685.8	681.0	687.7	746.0	891.1
25°	680.1	661.9	669.6	724.9	852.9
27.5°	684.8	644.7	647.6	705.8	812.8
30°	685.8	623.7	624.7	685.8	767.9
32.5°	679.1	601.7	602.7	661.0	717.3
35°	662.9	576.0	575.0	632.3	648.5
37.5°	640.9	548.3	548.3	600.8	573.1
40°	614.2	520.6	523.4	559.7	506.2
42.5°	581.7	491.0	494.8	505.3	456.6
45°	546.4	462.3	465.2	427.0	418.4
47.5°	507.2	432.7	433.7	354.4	406.0
50°	460.4	402.2	398.3	303.7	405.0
52.5°	419.3	368.7	357.3	275.0	367.8
55°	379.2	333.3	308.5	253.1	341.0
57.5°	343.9	287.5	263.6	227.3	335.2
60°	311.3	242.6	224.4	199.6	307.5
62.5°	284.6	209.1	205.3	180.5	278.9
65°	255.9	186.2	185.3	164.3	236.8
67.5°	228.2	170.9	170.0	149.0	180.5
70°	198.6	154.7	152.8	132.7	133.7
72.5°	168.1	136.6	134.7	119.4	110.8
75°	137.5	115.6	114.6	104.1	89.8
77.5°	107.9	91.7	93.6	84.0	65.9
80°	77.4	66.8	68.8	60.2	49.7
82.5°	51.6	43.9	45.8	38.2	33.4
85°	28.6	24.8	25.8	20.1	15.3
87.5°	13.4	11.5	11.5	7.6	4.8
90°	8.7	5.5	5.2	3.5	2.0
92.5°	53.4	38.0	34.7	21.2	7.8
95°	131.4	74.0	67.9	43.4	18.9
97.5°	177.0	81.3	75.8	54.2	32.7
100°	193.6	87.4	82.5	62.8	43.3
102.5°	201.2	93.5	88.9	70.7	52.3
105°	206.9	102.6	98.7	83.2	67.7
107.5°	207.9	115.9	112.3	97.9	83.5
110°	206.4	123.4	120.1	107.1	94.1



TEST NUMBER: P934385

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	206.4	132.5	129.3	116.9	104.5
115°	208.3	146.0	143.2	131.7	120.2
117.5°	212.2	159.2	156.6	146.2	135.8
120°	215.4	166.9	164.5	154.7	144.9
122.5°	219.8	176.0	173.5	163.7	153.8
125°	226.0	187.6	185.3	176.3	167.3
127.5°	232.1	198.8	196.5	187.5	178.3
130°	236.6	206.3	203.8	194.1	184.2
132.5°	240.2	212.4	209.9	200.2	190.3
135°	244.1	219.5	217.3	208.3	199.4
137.5°	250.0	228.5	226.3	217.5	208.7
140°	253.6	234.6	232.6	224.4	216.3
142.5°	256.6	239.1	237.2	229.8	222.2
145°	260.5	246.0	244.4	237.8	231.3
147.5°	266.3	254.7	253.1	246.8	240.4
150°	269.3	259.2	257.8	251.9	246.2
152.5°	271.3	262.1	261.1	256.7	252.3
155°	275.6	268.6	267.9	264.6	261.4
157.5°	279.9	275.1	274.4	271.2	268.1
160°	281.9	278.1	277.5	275.0	272.7
162.5°	284.0	281.2	280.8	279.0	277.1
165°	287.1	285.8	285.4	283.7	282.1
167.5°	289.4	288.3	288.1	287.4	286.6
170°	291.4	291.3	291.1	290.3	289.6
172.5°	291.5	291.5	291.5	291.3	291.1
175°	292.7	293.3	293.3	293.3	293.3
177.5°	292.8	293.3	293.3	293.3	293.3
180°	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P934385
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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	13.27	14.21	14.15	15.11	16.27	16.07	17.00	16.95	17.91	19.06
	3H	13.75	14.59	14.65	15.51	16.69	17.41	18.25	18.31	19.16	20.34
	4H	13.95	14.74	14.86	15.66	16.85	17.85	18.64	18.76	19.56	20.75
	6H	14.07	14.80	14.99	15.73	16.93	18.13	18.86	19.05	19.79	20.99
	8H	14.07	14.77	15.01	15.72	16.92	18.20	18.90	19.13	19.84	21.04
	12H	14.05	14.71	14.99	15.65	16.87	18.24	18.90	19.18	19.84	21.07
4H	2H	14.30	15.10	15.22	16.02	17.21	16.49	17.28	17.41	18.20	19.39
	3H	15.34	16.00	16.27	16.95	18.15	17.99	18.65	18.92	19.60	20.81
	4H	15.62	16.22	16.56	17.17	18.39	18.51	19.12	19.45	20.06	21.29
	6H	15.75	16.27	16.70	17.24	18.47	18.88	19.40	19.83	20.37	21.59
	8H	15.75	16.24	16.71	17.20	18.45	18.98	19.47	19.93	20.43	21.67
	12H	15.72	16.16	16.70	17.14	18.39	19.03	19.47	20.01	20.45	21.70
8H	4H	16.07	16.56	17.03	17.52	18.76	18.65	19.13	19.60	20.10	21.34
	6H	16.34	16.74	17.32	17.74	18.98	19.08	19.48	20.06	20.49	21.73
	8H	16.38	16.73	17.37	17.73	18.99	19.22	19.58	20.22	20.57	21.83
	12H	16.37	16.68	17.36	17.67	18.97	19.32	19.63	20.31	20.62	21.93
12H	4H	16.08	16.52	17.05	17.50	18.75	18.61	19.05	19.59	20.03	21.28
	6H	16.40	16.75	17.39	17.75	19.00	19.07	19.43	20.07	20.43	21.68
	8H	16.47	16.78	17.46	17.77	19.07	19.23	19.55	20.23	20.54	21.84