

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: P934383

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934383
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-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

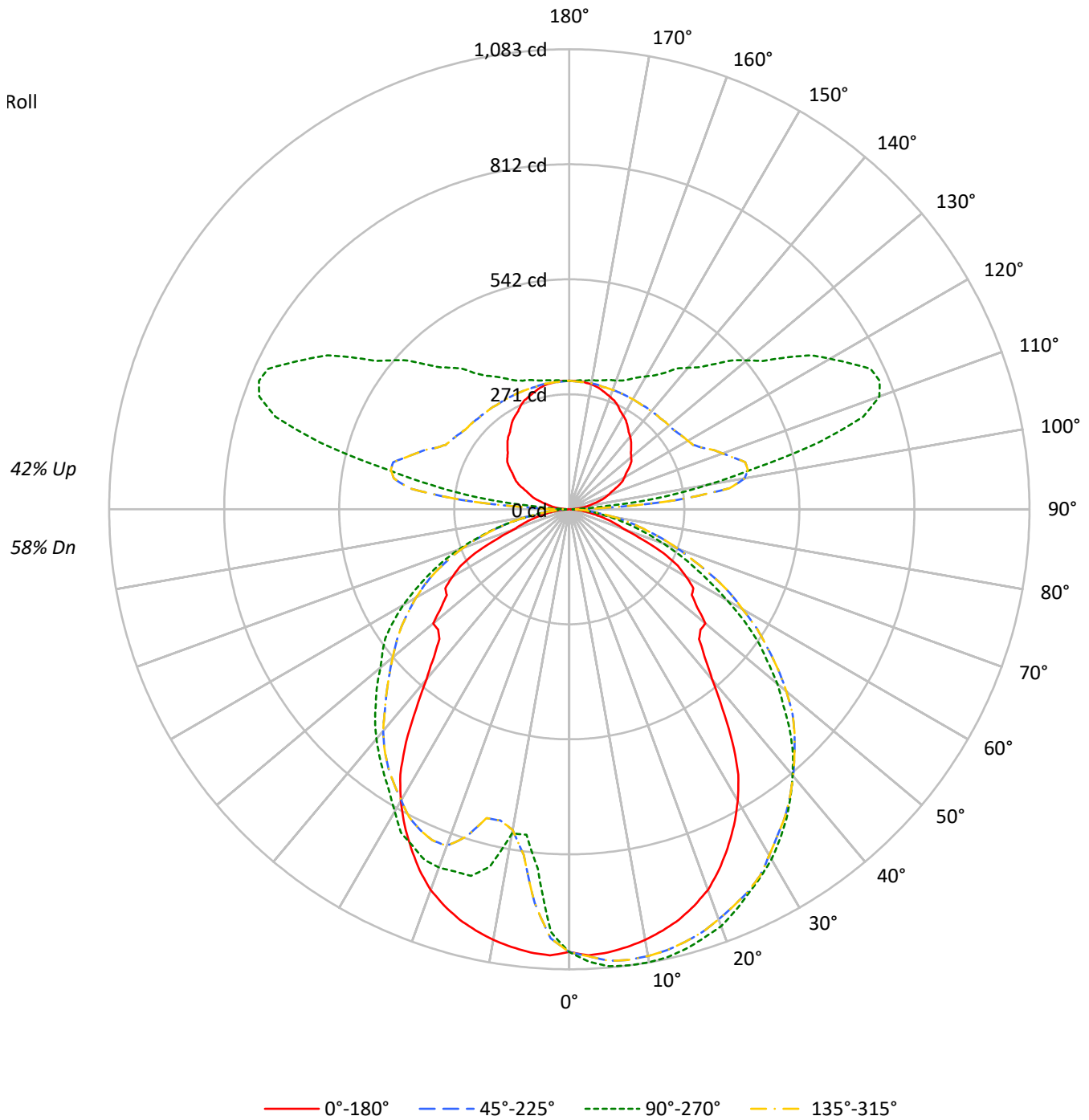
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4666.7 lumens
Efficiency: N/A
Efficacy: 128.2 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: P934383
CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9672	9672	9672	9672
5°	9733	9764	9733	7677
10°	9658	9618	9658	6876
15°	9542	9410	9542	7857
20°	9332	9162	9332	7873
25°	8912	8802	8912	7706
30°	8374	8503	8374	7340
35°	7455	8126	7455	6938
40°	6201	7680	6201	6634
45°	5531	7159	5531	6284
50°	5862	6538	5862	5933
55°	5500	5869	5500	5730
60°	5648	4985	5648	5248
65°	5095	4120	5095	4606
70°	3503	3284	3503	3860
75°	3040	2427	3040	2907
80°	2401	1604	2401	1747
85°	1308	849	1308	722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8492 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	2.0
10°-20°	267.1	5.7
20°-30°	413.0	8.8
30°-40°	493.0	10.6
40°-50°	495.9	10.6
50°-60°	431.5	9.2
60°-70°	305.9	6.6
70°-80°	161.8	3.5
80°-90°	41.5	0.9
90°-100°	147.6	3.2
100°-110°	388.1	8.3
110°-120°	402.4	8.6
120°-130°	322.8	6.9
130°-140°	253.2	5.4
140°-150°	194.4	4.2
150°-160°	140.0	3.0
160°-170°	85.6	1.8
170°-180°	28.9	0.6
0°-30°	774.2	16.6
0°-40°	1267.2	27.2
0°-60°	2194.5	47.0
0°-90°	2703.7	57.9
90°-120°	938.0	20.1
90°-150°	1708.4	36.6
90°-180°	1963.0	42.1
0°-180°	4666.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1042	1042	1042	1042	1042	
5°	1047	1080	1047	849	1047	99
15°	1000	1070	1000	893	1000	281
25°	881	998	881	874	881	404
35°	670	890	670	760	670	414
45°	432	734	432	644	432	346
55°	352	541	352	529	352	324
65°	244	326	244	365	244	234
75°	93	155	93	185	93	97
85°	16	39	16	34	16	21
90°	2	8	2	8	2	2
95°	20	89	20	89	20	22
105°	70	608	70	608	70	74
115°	124	782	124	782	124	123
125°	173	623	173	623	173	153
135°	206	483	206	483	206	159
145°	239	392	239	392	239	150
155°	270	338	270	338	270	124
165°	291	315	291	315	291	82
175°	303	305	303	305	303	29
180°	303	303	303	303	303	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1051.2	1051.2	1057.2	1059.2	1059.2	1056.2	1053.2	1056.2	1065.1	1068.0	1067.0
5°	1047.2	1055.2	1066.1	1068.0	1070.0	1069.0	1067.0	1069.0	1078.9	1080.9	1081.8
7.5°	1039.3	1054.2	1068.0	1071.0	1074.0	1071.0	1070.0	1072.0	1081.8	1083.8	1083.8
10°	1029.5	1050.2	1066.1	1068.0	1071.0	1068.0	1068.0	1072.0	1081.8	1083.8	1084.8
12.5°	1015.7	1044.3	1059.2	1061.1	1065.1	1064.1	1063.1	1067.0	1076.9	1078.9	1078.9
15°	999.9	1033.4	1047.2	1049.2	1056.2	1054.2	1054.2	1058.2	1069.0	1072.0	1071.0
17.5°	978.2	1019.6	1035.4	1038.4	1043.3	1042.3	1043.3	1047.2	1057.2	1059.2	1060.1
20°	953.6	1000.9	1019.6	1022.6	1027.5	1027.5	1027.5	1032.4	1042.3	1046.2	1046.2
22.5°	920.0	981.2	1000.9	1002.9	1008.8	1008.8	1010.7	1017.7	1026.5	1027.5	1027.5
25°	880.6	959.5	976.2	982.2	988.1	991.0	994.0	997.9	1000.9	999.9	1000.9
27.5°	839.2	931.9	953.6	957.5	965.4	968.4	972.3	973.3	974.3	977.2	975.3
30°	792.8	893.4	926.0	929.9	942.7	944.7	940.7	942.7	947.6	949.6	951.6
32.5°	740.6	836.2	897.4	906.2	918.1	912.1	911.2	914.1	922.0	922.0	924.0
35°	669.6	791.9	870.7	878.6	887.5	880.6	884.5	885.5	890.5	893.4	892.4
37.5°	591.7	753.4	843.1	849.0	855.9	847.1	853.0	855.9	859.9	857.9	857.9
40°	522.7	693.3	810.6	814.5	820.5	813.5	819.5	821.4	823.4	821.4	820.5
42.5°	471.4	627.2	776.1	781.0	777.1	782.0	784.0	787.9	785.0	781.0	781.0
45°	432.0	609.4	738.6	744.5	738.6	746.5	749.5	749.5	740.6	738.6	737.6
47.5°	419.1	574.0	701.1	701.1	698.2	708.0	713.0	706.1	697.2	694.2	694.2
50°	418.2	534.5	649.9	645.9	659.7	671.6	666.6	659.7	652.8	642.0	642.0
52.5°	379.7	486.2	583.8	598.6	620.3	627.2	619.3	612.4	600.6	595.6	591.7
55°	352.1	435.9	523.7	553.2	575.9	584.8	570.0	563.1	545.4	542.4	540.4
57.5°	346.1	362.9	468.4	505.9	533.5	532.5	523.7	510.8	496.1	493.1	492.1
60°	317.5	262.3	409.3	453.7	482.3	479.3	471.4	459.6	445.8	443.8	441.8
62.5°	287.9	190.3	342.1	392.5	433.0	432.0	425.1	407.3	397.5	392.5	388.6
65°	244.5	159.7	243.5	326.4	384.6	386.6	371.8	359.0	348.1	342.1	341.2
67.5°	186.4	130.2	164.7	272.1	338.2	336.2	317.5	311.6	297.8	294.8	288.9
70°	138.0	86.8	114.4	220.9	292.8	287.9	273.1	266.2	253.4	246.5	242.6
72.5°	114.4	70.0	83.8	171.6	246.5	240.6	227.8	219.9	209.0	203.1	199.2
75°	92.7	74.0	64.1	127.2	200.2	196.2	184.4	176.5	167.6	159.7	160.7
77.5°	68.0	69.0	51.3	93.7	158.7	152.8	145.9	136.1	132.1	124.2	124.2
80°	51.3	54.2	38.5	64.1	114.4	114.4	108.5	101.6	94.7	90.7	90.7
82.5°	34.5	34.5	28.6	40.4	77.9	74.9	71.0	69.0	65.1	63.1	63.1
85°	15.8	19.7	17.7	24.6	42.4	44.4	44.4	42.4	41.4	39.4	40.4
87.5°	4.9	8.9	10.8	13.8	21.7	22.7	23.7	23.7	23.7	24.6	24.6
90°	2.1	3.6	5.3	5.7	9.0	13.3	15.5	13.7	10.3	7.7	7.7
92.5°	8.1	21.9	35.8	39.2	55.1	76.3	87.0	76.2	54.7	38.7	37.1
95°	19.5	44.8	70.1	76.4	135.7	214.7	254.2	226.8	172.1	131.0	126.4
97.5°	33.7	56.0	78.3	83.9	182.7	314.5	380.4	363.1	328.5	302.6	293.7
100°	44.7	64.9	85.2	90.2	199.9	346.1	419.2	420.5	423.1	425.0	414.4
102.5°	54.0	73.0	91.8	96.5	207.8	356.0	430.2	452.3	496.4	529.4	520.3
105°	69.9	85.9	101.9	105.9	213.6	357.2	429.0	478.4	577.2	651.4	646.5
107.5°	86.2	101.1	116.0	119.7	214.7	341.4	404.7	473.6	611.4	714.8	715.9
110°	97.1	110.5	124.0	127.4	213.1	327.3	384.3	461.3	615.5	731.0	736.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	107.9	120.7	133.5	136.8	213.1	314.9	365.8	444.7	602.3	720.7	728.5
115°	124.1	136.0	147.8	150.8	215.0	300.7	343.6	419.5	571.5	685.5	696.2
117.5°	140.2	151.0	161.7	164.4	219.1	292.0	328.4	397.0	534.0	636.9	648.8
120°	149.6	159.7	169.8	172.4	222.3	289.0	322.3	384.9	510.3	604.2	615.9
122.5°	158.7	169.0	179.2	181.7	227.0	287.4	317.6	374.0	486.9	571.5	582.9
125°	172.7	182.0	191.3	193.7	233.3	286.1	312.6	360.5	456.3	528.2	538.8
127.5°	184.1	193.6	202.9	205.3	239.6	285.4	308.3	349.4	431.7	493.4	502.3
130°	190.2	200.4	210.4	213.0	244.2	285.8	306.6	343.3	416.6	471.5	479.7
132.5°	196.5	206.7	216.7	219.3	248.0	286.1	305.3	338.0	403.6	452.8	460.2
135°	205.9	215.0	224.3	226.6	252.0	285.8	302.8	330.2	385.1	426.3	432.7
137.5°	215.4	224.5	233.7	235.9	258.1	287.6	302.4	325.6	372.0	406.8	412.0
140°	223.3	231.7	240.2	242.3	261.8	287.9	300.9	321.0	361.2	391.2	396.1
142.5°	229.4	237.2	244.9	246.9	264.9	288.9	300.9	318.6	353.8	380.2	384.3
145°	238.8	245.5	252.3	254.0	269.0	289.0	299.0	313.4	342.1	363.7	366.9
147.5°	248.2	254.8	261.3	263.0	275.0	291.0	299.0	310.3	333.0	349.9	352.6
150°	254.2	260.1	266.1	267.6	278.1	292.0	299.0	308.5	327.6	342.0	344.2
152.5°	260.5	265.0	269.6	270.7	280.1	292.6	299.0	307.1	323.5	335.7	337.3
155°	269.9	273.2	276.6	277.4	284.6	294.1	299.0	305.5	318.5	328.2	329.3
157.5°	276.8	280.0	283.3	284.1	289.0	295.6	299.0	304.0	314.1	321.7	322.5
160°	281.5	284.0	286.5	287.1	291.1	296.3	299.0	303.3	312.0	318.5	318.9
162.5°	286.1	288.0	289.9	290.4	293.2	297.1	299.0	302.6	309.9	315.4	315.8
165°	291.3	292.9	294.7	295.1	296.4	298.1	299.0	301.5	306.7	310.7	311.1
167.5°	295.9	296.7	297.5	297.7	298.8	300.2	300.9	302.7	306.2	308.7	308.9
170°	299.0	299.7	300.5	300.7	300.8	300.9	300.9	302.7	306.2	308.7	308.7
172.5°	300.5	300.7	300.9	300.9	300.9	300.9	300.9	302.3	305.0	307.0	306.8
175°	302.8	302.8	302.8	302.8	302.2	301.3	300.9	301.8	303.6	304.9	304.9
177.5°	302.8	302.8	302.8	302.8	302.3	301.7	301.4	302.1	303.5	304.5	304.3
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1069.0	1066.1	1069.0	1067.0	1068.0	1065.1	1056.2	1053.2	1056.2	1059.2	1059.2
5°	1081.8	1079.9	1081.8	1081.8	1080.9	1078.9	1069.0	1067.0	1069.0	1070.0	1068.0
7.5°	1085.8	1082.8	1085.8	1083.8	1083.8	1081.8	1072.0	1070.0	1071.0	1074.0	1071.0
10°	1085.8	1082.8	1085.8	1084.8	1083.8	1081.8	1072.0	1068.0	1068.0	1071.0	1068.0
12.5°	1080.9	1078.9	1080.9	1078.9	1078.9	1076.9	1067.0	1063.1	1064.1	1065.1	1061.1
15°	1073.0	1070.0	1073.0	1071.0	1072.0	1069.0	1058.2	1054.2	1054.2	1056.2	1049.2
17.5°	1061.1	1057.2	1061.1	1060.1	1059.2	1057.2	1047.2	1043.3	1042.3	1043.3	1038.4
20°	1047.2	1044.3	1047.2	1046.2	1046.2	1042.3	1032.4	1027.5	1027.5	1027.5	1022.6
22.5°	1025.5	1022.6	1025.5	1027.5	1027.5	1026.5	1017.7	1010.7	1008.8	1008.8	1002.9
25°	1000.9	997.9	1000.9	1000.9	999.9	1000.9	997.9	994.0	991.0	988.1	982.2
27.5°	977.2	975.3	977.2	975.3	977.2	974.3	973.3	972.3	968.4	965.4	957.5
30°	953.6	951.6	953.6	951.6	949.6	947.6	942.7	940.7	944.7	942.7	929.9
32.5°	924.0	922.0	924.0	924.0	922.0	922.0	914.1	911.2	912.1	918.1	906.2
35°	893.4	890.5	893.4	892.4	893.4	890.5	885.5	884.5	880.6	887.5	878.6
37.5°	857.9	855.0	857.9	857.9	857.9	859.9	855.9	853.0	847.1	855.9	849.0
40°	821.4	817.5	821.4	820.5	821.4	823.4	821.4	819.5	813.5	820.5	814.5
42.5°	780.0	779.0	780.0	781.0	781.0	785.0	787.9	784.0	782.0	777.1	781.0
45°	735.7	733.7	735.7	737.6	738.6	740.6	749.5	749.5	746.5	738.6	744.5
47.5°	688.3	683.4	688.3	694.2	694.2	697.2	706.1	713.0	708.0	698.2	701.1
50°	638.0	639.0	638.0	642.0	642.0	652.8	659.7	666.6	671.6	659.7	645.9
52.5°	588.7	587.8	588.7	591.7	595.6	600.6	612.4	619.3	627.2	620.3	598.6
55°	539.4	541.4	539.4	540.4	542.4	545.4	563.1	570.0	584.8	575.9	553.2
57.5°	490.1	487.2	490.1	492.1	493.1	496.1	510.8	523.7	532.5	533.5	505.9
60°	433.0	429.0	433.0	441.8	443.8	445.8	459.6	471.4	479.3	482.3	453.7
62.5°	382.7	375.8	382.7	388.6	392.5	397.5	407.3	425.1	432.0	433.0	392.5
65°	329.3	326.4	329.3	341.2	342.1	348.1	359.0	371.8	386.6	384.6	326.4
67.5°	281.0	281.0	281.0	288.9	294.8	297.8	311.6	317.5	336.2	338.2	272.1
70°	236.6	235.7	236.6	242.6	246.5	253.4	266.2	273.1	287.9	292.8	220.9
72.5°	194.2	193.3	194.2	199.2	203.1	209.0	219.9	227.8	240.6	246.5	171.6
75°	156.8	154.8	156.8	160.7	159.7	167.6	176.5	184.4	196.2	200.2	127.2
77.5°	120.3	120.3	120.3	124.2	124.2	132.1	136.1	145.9	152.8	158.7	93.7
80°	89.7	88.7	89.7	90.7	90.7	94.7	101.6	108.5	114.4	114.4	64.1
82.5°	63.1	61.1	63.1	63.1	63.1	65.1	69.0	71.0	74.9	77.9	40.4
85°	39.4	39.4	39.4	40.4	39.4	41.4	42.4	44.4	44.4	42.4	24.6
87.5°	25.6	24.6	25.6	24.6	24.6	23.7	23.7	23.7	22.7	21.7	13.8
90°	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3	9.0	5.7
92.5°	31.0	24.7	31.0	37.1	38.7	54.7	76.2	87.0	76.3	55.1	39.2
95°	107.8	89.2	107.8	126.4	131.0	172.1	226.8	254.2	214.7	135.7	76.4
97.5°	258.3	222.9	258.3	293.7	302.6	328.5	363.1	380.4	314.5	182.7	83.9
100°	372.2	330.0	372.2	414.4	425.0	423.1	420.5	419.2	346.1	199.9	90.2
102.5°	484.2	448.1	484.2	520.3	529.4	496.4	452.3	430.2	356.0	207.8	96.5
105°	627.1	607.7	627.1	646.5	651.4	577.2	478.4	429.0	357.2	213.6	105.9
107.5°	720.6	725.3	720.6	715.9	714.8	611.4	473.6	404.7	341.4	214.7	119.7
110°	756.3	776.5	756.3	736.0	731.0	615.5	461.3	384.3	327.3	213.1	127.4



TEST NUMBER: P934383

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	759.5	790.6	759.5	728.5	720.7	602.3	444.7	365.8	314.9	213.1	136.8
115°	739.3	782.4	739.3	696.2	685.5	571.5	419.5	343.6	300.7	215.0	150.8
117.5°	696.6	744.4	696.6	648.8	636.9	534.0	397.0	328.4	292.0	219.1	164.4
120°	662.2	708.6	662.2	615.9	604.2	510.3	384.9	322.3	289.0	222.3	172.4
122.5°	628.8	674.5	628.8	582.9	571.5	486.9	374.0	317.6	287.4	227.0	181.7
125°	580.9	623.1	580.9	538.8	528.2	456.3	360.5	312.6	286.1	233.3	193.7
127.5°	537.9	573.5	537.9	502.3	493.4	431.7	349.4	308.3	285.4	239.6	205.3
130°	512.6	545.5	512.6	479.7	471.5	416.6	343.3	306.6	285.8	244.2	213.0
132.5°	489.5	519.0	489.5	460.2	452.8	403.6	338.0	305.3	286.1	248.0	219.3
135°	458.1	483.4	458.1	432.7	426.3	385.1	330.2	302.8	285.8	252.0	226.6
137.5°	432.8	453.6	432.8	412.0	406.8	372.0	325.6	302.4	287.6	258.1	235.9
140°	415.5	434.9	415.5	396.1	391.2	361.2	321.0	300.9	287.9	261.8	242.3
142.5°	401.1	417.9	401.1	384.3	380.2	353.8	318.6	300.9	288.9	264.9	246.9
145°	379.6	392.2	379.6	366.9	363.7	342.1	313.4	299.0	289.0	269.0	254.0
147.5°	363.0	373.5	363.0	352.6	349.9	333.0	310.3	299.0	291.0	275.0	263.0
150°	352.7	361.2	352.7	344.2	342.0	327.6	308.5	299.0	292.0	278.1	267.6
152.5°	343.7	350.1	343.7	337.3	335.7	323.5	307.1	299.0	292.6	280.1	270.7
155°	333.6	337.8	333.6	329.3	328.2	318.5	305.5	299.0	294.1	284.6	277.4
157.5°	325.5	328.4	325.5	322.5	321.7	314.1	304.0	299.0	295.6	289.0	284.1
160°	320.6	322.3	320.6	318.9	318.5	312.0	303.3	299.0	296.3	291.1	287.1
162.5°	317.5	319.1	317.5	315.8	315.4	309.9	302.6	299.0	297.1	293.2	290.4
165°	312.9	314.6	312.9	311.1	310.7	306.7	301.5	299.0	298.1	296.4	295.1
167.5°	309.6	310.3	309.6	308.9	308.7	306.2	302.7	300.9	300.2	298.8	297.7
170°	308.7	308.7	308.7	308.7	308.7	306.2	302.7	300.9	300.9	300.8	300.7
172.5°	306.3	305.7	306.3	306.8	307.0	305.0	302.3	300.9	300.9	300.9	300.9
175°	304.9	304.9	304.9	304.9	304.9	303.6	301.8	300.9	301.3	302.2	302.8
177.5°	303.6	302.8	303.6	304.3	304.5	303.5	302.1	301.4	301.7	302.3	302.8
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8



TEST NUMBER: P934383

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1057.2	1051.2	1051.2	1041.3	1037.4	1034.4	1029.5	1014.7	1010.7	1006.8	1012.7
5°	1066.1	1055.2	1047.2	1029.5	1014.7	1008.8	990.0	954.5	930.9	913.1	903.3
7.5°	1068.0	1054.2	1039.3	1011.7	976.2	960.5	903.3	838.2	820.5	804.7	794.8
10°	1066.1	1050.2	1029.5	988.1	904.3	876.7	819.5	777.1	766.2	763.3	766.2
12.5°	1059.2	1044.3	1015.7	946.7	829.3	810.6	777.1	752.4	750.4	755.4	782.0
15°	1047.2	1033.4	999.9	891.4	787.9	774.1	750.4	741.6	752.4	786.9	866.8
17.5°	1035.4	1019.6	978.2	837.2	756.4	746.5	729.7	747.5	808.6	855.0	881.6
20°	1019.6	1000.9	953.6	797.8	733.7	724.8	716.9	796.8	843.1	859.9	874.7
22.5°	1000.9	981.2	920.0	770.2	710.0	703.1	708.0	824.4	843.1	855.0	867.8
25°	976.2	959.5	880.6	748.5	691.3	683.4	702.1	821.4	832.3	835.2	860.9
27.5°	953.6	931.9	839.2	728.8	668.6	665.6	707.1	808.6	816.5	819.5	847.1
30°	926.0	893.4	792.8	708.0	644.9	644.0	708.0	792.8	790.9	798.8	826.4
32.5°	897.4	836.2	740.6	682.4	622.3	621.3	701.1	769.2	767.2	778.1	798.8
35°	870.7	791.9	669.6	652.8	593.7	594.7	684.4	741.6	742.6	752.4	765.2
37.5°	843.1	753.4	591.7	620.3	566.1	566.1	661.7	715.9	714.0	716.9	734.7
40°	810.6	693.3	522.7	577.9	540.4	537.5	634.1	688.3	681.4	680.4	705.1
42.5°	776.1	627.2	471.4	521.7	510.8	506.9	600.6	654.8	642.0	644.9	676.5
45°	738.6	609.4	432.0	440.8	480.3	477.3	564.1	616.3	607.5	615.4	647.9
47.5°	701.1	574.0	419.1	365.9	447.7	446.8	523.7	578.9	574.0	581.8	616.3
50°	649.9	534.5	418.2	313.5	411.3	415.2	475.4	542.4	542.4	549.3	585.8
52.5°	583.8	486.2	379.7	284.0	368.9	380.7	433.0	510.8	512.8	519.7	552.3
55°	523.7	435.9	352.1	261.3	318.5	344.1	391.5	478.3	482.3	489.2	518.7
57.5°	468.4	362.9	346.1	234.7	272.1	296.8	355.1	446.8	448.7	454.6	483.2
60°	409.3	262.3	317.5	206.1	231.7	250.4	321.4	409.3	416.2	420.1	444.8
62.5°	342.1	190.3	287.9	186.4	212.0	215.9	293.8	373.8	382.7	385.6	400.4
65°	243.5	159.7	244.5	169.6	191.3	192.3	264.2	337.2	345.1	350.0	361.0
67.5°	164.7	130.2	186.4	153.8	175.5	176.5	235.7	294.8	305.7	309.6	316.5
70°	114.4	86.8	138.0	137.1	157.8	159.7	205.1	256.4	266.2	269.2	273.1
72.5°	83.8	70.0	114.4	123.2	139.0	141.0	173.5	213.0	222.8	225.8	227.8
75°	64.1	74.0	92.7	107.5	118.3	119.3	142.0	173.5	180.4	182.4	183.4
77.5°	51.3	69.0	68.0	86.8	96.6	94.7	111.4	134.1	140.0	140.0	140.0
80°	38.5	54.2	51.3	62.1	71.0	69.0	79.9	95.6	97.6	99.6	98.6
82.5°	28.6	34.5	34.5	39.4	47.3	45.4	53.2	62.1	62.1	62.1	64.1
85°	17.7	19.7	15.8	20.7	26.6	25.6	29.6	33.5	34.5	34.5	32.5
87.5°	10.8	8.9	4.9	7.9	11.8	11.8	13.8	14.8	13.8	13.8	13.8
90°	5.3	3.6	2.1	3.6	5.3	5.7	9.0	13.3	15.5	13.7	10.3
92.5°	35.8	21.9	8.1	21.9	35.8	39.2	55.1	76.3	87.0	76.2	54.7
95°	70.1	44.8	19.5	44.8	70.1	76.4	135.7	214.7	254.2	226.8	172.1
97.5°	78.3	56.0	33.7	56.0	78.3	83.9	182.7	314.5	380.4	363.1	328.5
100°	85.2	64.9	44.7	64.9	85.2	90.2	199.9	346.1	419.2	420.5	423.1
102.5°	91.8	73.0	54.0	73.0	91.8	96.5	207.8	356.0	430.2	452.3	496.4
105°	101.9	85.9	69.9	85.9	101.9	105.9	213.6	357.2	429.0	478.4	577.2
107.5°	116.0	101.1	86.2	101.1	116.0	119.7	214.7	341.4	404.7	473.6	611.4
110°	124.0	110.5	97.1	110.5	124.0	127.4	213.1	327.3	384.3	461.3	615.5



TEST NUMBER: P934383

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	133.5	120.7	107.9	120.7	133.5	136.8	213.1	314.9	365.8	444.7	602.3
115°	147.8	136.0	124.1	136.0	147.8	150.8	215.0	300.7	343.6	419.5	571.5
117.5°	161.7	151.0	140.2	151.0	161.7	164.4	219.1	292.0	328.4	397.0	534.0
120°	169.8	159.7	149.6	159.7	169.8	172.4	222.3	289.0	322.3	384.9	510.3
122.5°	179.2	169.0	158.7	169.0	179.2	181.7	227.0	287.4	317.6	374.0	486.9
125°	191.3	182.0	172.7	182.0	191.3	193.7	233.3	286.1	312.6	360.5	456.3
127.5°	202.9	193.6	184.1	193.6	202.9	205.3	239.6	285.4	308.3	349.4	431.7
130°	210.4	200.4	190.2	200.4	210.4	213.0	244.2	285.8	306.6	343.3	416.6
132.5°	216.7	206.7	196.5	206.7	216.7	219.3	248.0	286.1	305.3	338.0	403.6
135°	224.3	215.0	205.9	215.0	224.3	226.6	252.0	285.8	302.8	330.2	385.1
137.5°	233.7	224.5	215.4	224.5	233.7	235.9	258.1	287.6	302.4	325.6	372.0
140°	240.2	231.7	223.3	231.7	240.2	242.3	261.8	287.9	300.9	321.0	361.2
142.5°	244.9	237.2	229.4	237.2	244.9	246.9	264.9	288.9	300.9	318.6	353.8
145°	252.3	245.5	238.8	245.5	252.3	254.0	269.0	289.0	299.0	313.4	342.1
147.5°	261.3	254.8	248.2	254.8	261.3	263.0	275.0	291.0	299.0	310.3	333.0
150°	266.1	260.1	254.2	260.1	266.1	267.6	278.1	292.0	299.0	308.5	327.6
152.5°	269.6	265.0	260.5	265.0	269.6	270.7	280.1	292.6	299.0	307.1	323.5
155°	276.6	273.2	269.9	273.2	276.6	277.4	284.6	294.1	299.0	305.5	318.5
157.5°	283.3	280.0	276.8	280.0	283.3	284.1	289.0	295.6	299.0	304.0	314.1
160°	286.5	284.0	281.5	284.0	286.5	287.1	291.1	296.3	299.0	303.3	312.0
162.5°	289.9	288.0	286.1	288.0	289.9	290.4	293.2	297.1	299.0	302.6	309.9
165°	294.7	292.9	291.3	292.9	294.7	295.1	296.4	298.1	299.0	301.5	306.7
167.5°	297.5	296.7	295.9	296.7	297.5	297.7	298.8	300.2	300.9	302.7	306.2
170°	300.5	299.7	299.0	299.7	300.5	300.7	300.8	300.9	300.9	302.7	306.2
172.5°	300.9	300.7	300.5	300.7	300.9	300.9	300.9	300.9	300.9	302.3	305.0
175°	302.8	302.8	302.8	302.8	302.8	302.8	302.2	301.3	300.9	301.8	303.6
177.5°	302.8	302.8	302.8	302.8	302.8	302.8	302.3	301.7	301.4	302.1	303.5
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8



TEST NUMBER: P934383

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1005.8	1002.9	1006.8	996.0	1006.8	1002.9	1005.8	1012.7	1006.8	1010.7	1014.7
5°	882.6	877.6	861.9	849.0	861.9	877.6	882.6	903.3	913.1	930.9	954.5
7.5°	788.9	785.0	781.0	773.1	781.0	785.0	788.9	794.8	804.7	820.5	838.2
10°	768.2	769.2	775.1	774.1	775.1	769.2	768.2	766.2	763.3	766.2	777.1
12.5°	821.4	830.3	862.8	860.9	862.8	830.3	821.4	782.0	755.4	750.4	752.4
15°	882.6	885.5	892.4	893.4	892.4	885.5	882.6	866.8	786.9	752.4	741.6
17.5°	888.5	889.5	894.4	894.4	894.4	889.5	888.5	881.6	855.0	808.6	747.5
20°	883.6	885.5	895.4	897.4	895.4	885.5	883.6	874.7	859.9	843.1	796.8
22.5°	881.6	885.5	893.4	892.4	893.4	885.5	881.6	867.8	855.0	843.1	824.4
25°	871.7	871.7	872.7	873.7	872.7	871.7	871.7	860.9	835.2	832.3	821.4
27.5°	851.0	853.0	858.9	857.9	858.9	853.0	851.0	847.1	819.5	816.5	808.6
30°	832.3	830.3	825.4	821.4	825.4	830.3	832.3	826.4	798.8	790.9	792.8
32.5°	800.7	795.8	790.9	787.9	790.9	795.8	800.7	798.8	778.1	767.2	769.2
35°	763.3	764.2	763.3	760.3	763.3	764.2	763.3	765.2	752.4	742.6	741.6
37.5°	736.6	738.6	737.6	733.7	737.6	738.6	736.6	734.7	716.9	714.0	715.9
40°	709.0	710.0	709.0	706.1	709.0	710.0	709.0	705.1	680.4	681.4	688.3
42.5°	682.4	681.4	678.5	676.5	678.5	681.4	682.4	676.5	644.9	642.0	654.8
45°	651.8	652.8	646.9	644.0	646.9	652.8	651.8	647.9	615.4	607.5	616.3
47.5°	621.3	621.3	616.3	613.4	616.3	621.3	621.3	616.3	581.8	574.0	578.9
50°	588.7	587.8	580.9	579.9	580.9	587.8	588.7	585.8	549.3	542.4	542.4
52.5°	551.3	551.3	552.3	554.2	552.3	551.3	551.3	552.3	519.7	512.8	510.8
55°	518.7	519.7	526.6	528.6	526.6	519.7	518.7	518.7	489.2	482.3	478.3
57.5°	485.2	485.2	490.1	490.1	490.1	485.2	485.2	483.2	454.6	448.7	446.8
60°	446.8	448.7	452.7	451.7	452.7	448.7	446.8	444.8	420.1	416.2	409.3
62.5°	406.3	408.3	409.3	407.3	409.3	408.3	406.3	400.4	385.6	382.7	373.8
65°	363.9	365.9	366.9	364.9	366.9	365.9	363.9	361.0	350.0	345.1	337.2
67.5°	320.4	319.5	318.5	322.4	318.5	319.5	320.4	316.5	309.6	305.7	294.8
70°	276.1	276.1	275.1	277.1	275.1	276.1	276.1	273.1	269.2	266.2	256.4
72.5°	228.8	227.8	231.7	228.8	231.7	227.8	228.8	227.8	225.8	222.8	213.0
75°	182.4	184.4	182.4	185.4	182.4	184.4	182.4	183.4	182.4	180.4	173.5
77.5°	139.0	141.0	139.0	139.0	139.0	141.0	139.0	140.0	140.0	140.0	134.1
80°	98.6	97.6	97.6	96.6	97.6	97.6	98.6	98.6	99.6	97.6	95.6
82.5°	63.1	62.1	62.1	64.1	62.1	62.1	63.1	64.1	62.1	62.1	62.1
85°	34.5	35.5	33.5	33.5	33.5	35.5	34.5	32.5	34.5	34.5	33.5
87.5°	12.8	11.8	11.8	11.8	11.8	11.8	12.8	13.8	13.8	13.8	14.8
90°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3
92.5°	38.7	37.1	31.0	24.7	31.0	37.1	38.7	54.7	76.2	87.0	76.3
95°	131.0	126.4	107.8	89.2	107.8	126.4	131.0	172.1	226.8	254.2	214.7
97.5°	302.6	293.7	258.3	222.9	258.3	293.7	302.6	328.5	363.1	380.4	314.5
100°	425.0	414.4	372.2	330.0	372.2	414.4	425.0	423.1	420.5	419.2	346.1
102.5°	529.4	520.3	484.2	448.1	484.2	520.3	529.4	496.4	452.3	430.2	356.0
105°	651.4	646.5	627.1	607.7	627.1	646.5	651.4	577.2	478.4	429.0	357.2
107.5°	714.8	715.9	720.6	725.3	720.6	715.9	714.8	611.4	473.6	404.7	341.4
110°	731.0	736.0	756.3	776.5	756.3	736.0	731.0	615.5	461.3	384.3	327.3



TEST NUMBER: P934383

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	720.7	728.5	759.5	790.6	759.5	728.5	720.7	602.3	444.7	365.8	314.9
115°	685.5	696.2	739.3	782.4	739.3	696.2	685.5	571.5	419.5	343.6	300.7
117.5°	636.9	648.8	696.6	744.4	696.6	648.8	636.9	534.0	397.0	328.4	292.0
120°	604.2	615.9	662.2	708.6	662.2	615.9	604.2	510.3	384.9	322.3	289.0
122.5°	571.5	582.9	628.8	674.5	628.8	582.9	571.5	486.9	374.0	317.6	287.4
125°	528.2	538.8	580.9	623.1	580.9	538.8	528.2	456.3	360.5	312.6	286.1
127.5°	493.4	502.3	537.9	573.5	537.9	502.3	493.4	431.7	349.4	308.3	285.4
130°	471.5	479.7	512.6	545.5	512.6	479.7	471.5	416.6	343.3	306.6	285.8
132.5°	452.8	460.2	489.5	519.0	489.5	460.2	452.8	403.6	338.0	305.3	286.1
135°	426.3	432.7	458.1	483.4	458.1	432.7	426.3	385.1	330.2	302.8	285.8
137.5°	406.8	412.0	432.8	453.6	432.8	412.0	406.8	372.0	325.6	302.4	287.6
140°	391.2	396.1	415.5	434.9	415.5	396.1	391.2	361.2	321.0	300.9	287.9
142.5°	380.2	384.3	401.1	417.9	401.1	384.3	380.2	353.8	318.6	300.9	288.9
145°	363.7	366.9	379.6	392.2	379.6	366.9	363.7	342.1	313.4	299.0	289.0
147.5°	349.9	352.6	363.0	373.5	363.0	352.6	349.9	333.0	310.3	299.0	291.0
150°	342.0	344.2	352.7	361.2	352.7	344.2	342.0	327.6	308.5	299.0	292.0
152.5°	335.7	337.3	343.7	350.1	343.7	337.3	335.7	323.5	307.1	299.0	292.6
155°	328.2	329.3	333.6	337.8	333.6	329.3	328.2	318.5	305.5	299.0	294.1
157.5°	321.7	322.5	325.5	328.4	325.5	322.5	321.7	314.1	304.0	299.0	295.6
160°	318.5	318.9	320.6	322.3	320.6	318.9	318.5	312.0	303.3	299.0	296.3
162.5°	315.4	315.8	317.5	319.1	317.5	315.8	315.4	309.9	302.6	299.0	297.1
165°	310.7	311.1	312.9	314.6	312.9	311.1	310.7	306.7	301.5	299.0	298.1
167.5°	308.7	308.9	309.6	310.3	309.6	308.9	308.7	306.2	302.7	300.9	300.2
170°	308.7	308.7	308.7	308.7	308.7	308.7	308.7	306.2	302.7	300.9	300.9
172.5°	307.0	306.8	306.3	305.7	306.3	306.8	307.0	305.0	302.3	300.9	300.9
175°	304.9	304.9	304.9	304.9	304.9	304.9	304.9	303.6	301.8	300.9	301.3
177.5°	304.5	304.3	303.6	302.8	303.6	304.3	304.5	303.5	302.1	301.4	301.7
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8



TEST NUMBER: P934383

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1029.5	1034.4	1037.4	1041.3	1051.2
5°	990.0	1008.8	1014.7	1029.5	1047.2
7.5°	903.3	960.5	976.2	1011.7	1039.3
10°	819.5	876.7	904.3	988.1	1029.5
12.5°	777.1	810.6	829.3	946.7	1015.7
15°	750.4	774.1	787.9	891.4	999.9
17.5°	729.7	746.5	756.4	837.2	978.2
20°	716.9	724.8	733.7	797.8	953.6
22.5°	708.0	703.1	710.0	770.2	920.0
25°	702.1	683.4	691.3	748.5	880.6
27.5°	707.1	665.6	668.6	728.8	839.2
30°	708.0	644.0	644.9	708.0	792.8
32.5°	701.1	621.3	622.3	682.4	740.6
35°	684.4	594.7	593.7	652.8	669.6
37.5°	661.7	566.1	566.1	620.3	591.7
40°	634.1	537.5	540.4	577.9	522.7
42.5°	600.6	506.9	510.8	521.7	471.4
45°	564.1	477.3	480.3	440.8	432.0
47.5°	523.7	446.8	447.7	365.9	419.1
50°	475.4	415.2	411.3	313.5	418.2
52.5°	433.0	380.7	368.9	284.0	379.7
55°	391.5	344.1	318.5	261.3	352.1
57.5°	355.1	296.8	272.1	234.7	346.1
60°	321.4	250.4	231.7	206.1	317.5
62.5°	293.8	215.9	212.0	186.4	287.9
65°	264.2	192.3	191.3	169.6	244.5
67.5°	235.7	176.5	175.5	153.8	186.4
70°	205.1	159.7	157.8	137.1	138.0
72.5°	173.5	141.0	139.0	123.2	114.4
75°	142.0	119.3	118.3	107.5	92.7
77.5°	111.4	94.7	96.6	86.8	68.0
80°	79.9	69.0	71.0	62.1	51.3
82.5°	53.2	45.4	47.3	39.4	34.5
85°	29.6	25.6	26.6	20.7	15.8
87.5°	13.8	11.8	11.8	7.9	4.9
90°	9.0	5.7	5.3	3.6	2.1
92.5°	55.1	39.2	35.8	21.9	8.1
95°	135.7	76.4	70.1	44.8	19.5
97.5°	182.7	83.9	78.3	56.0	33.7
100°	199.9	90.2	85.2	64.9	44.7
102.5°	207.8	96.5	91.8	73.0	54.0
105°	213.6	105.9	101.9	85.9	69.9
107.5°	214.7	119.7	116.0	101.1	86.2
110°	213.1	127.4	124.0	110.5	97.1



TEST NUMBER: P934383

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	213.1	136.8	133.5	120.7	107.9
115°	215.0	150.8	147.8	136.0	124.1
117.5°	219.1	164.4	161.7	151.0	140.2
120°	222.3	172.4	169.8	159.7	149.6
122.5°	227.0	181.7	179.2	169.0	158.7
125°	233.3	193.7	191.3	182.0	172.7
127.5°	239.6	205.3	202.9	193.6	184.1
130°	244.2	213.0	210.4	200.4	190.2
132.5°	248.0	219.3	216.7	206.7	196.5
135°	252.0	226.6	224.3	215.0	205.9
137.5°	258.1	235.9	233.7	224.5	215.4
140°	261.8	242.3	240.2	231.7	223.3
142.5°	264.9	246.9	244.9	237.2	229.4
145°	269.0	254.0	252.3	245.5	238.8
147.5°	275.0	263.0	261.3	254.8	248.2
150°	278.1	267.6	266.1	260.1	254.2
152.5°	280.1	270.7	269.6	265.0	260.5
155°	284.6	277.4	276.6	273.2	269.9
157.5°	289.0	284.1	283.3	280.0	276.8
160°	291.1	287.1	286.5	284.0	281.5
162.5°	293.2	290.4	289.9	288.0	286.1
165°	296.4	295.1	294.7	292.9	291.3
167.5°	298.8	297.7	297.5	296.7	295.9
170°	300.8	300.7	300.5	299.7	299.0
172.5°	300.9	300.9	300.9	300.7	300.5
175°	302.2	302.8	302.8	302.8	302.8
177.5°	302.3	302.8	302.8	302.8	302.8
180°	302.8	302.8	302.8	302.8	302.8



TEST NUMBER: P934383
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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	13.38	14.32	14.26	15.22	16.38	16.18	17.11	17.06	18.02	19.17
	3H	13.86	14.70	14.76	15.62	16.80	17.52	18.36	18.42	19.27	20.45
	4H	14.06	14.85	14.97	15.77	16.96	17.96	18.75	18.87	19.68	20.86
	6H	14.18	14.91	15.11	15.84	17.04	18.24	18.97	19.17	19.90	21.10
	8H	14.18	14.88	15.12	15.83	17.03	18.31	19.01	19.25	19.96	21.15
	12H	14.16	14.82	15.10	15.76	16.99	18.35	19.01	19.29	19.95	21.18
4H	2H	14.41	15.21	15.33	16.13	17.32	16.60	17.39	17.52	18.31	19.50
	3H	15.45	16.11	16.38	17.06	18.26	18.10	18.76	19.03	19.71	20.92
	4H	15.73	16.33	16.67	17.28	18.51	18.62	19.23	19.56	20.18	21.40
	6H	15.86	16.38	16.81	17.35	18.58	18.99	19.51	19.94	20.48	21.71
	8H	15.86	16.35	16.82	17.32	18.56	19.09	19.58	20.05	20.54	21.78
	12H	15.84	16.27	16.81	17.26	18.50	19.15	19.58	20.12	20.57	21.81
8H	4H	16.18	16.67	17.14	17.63	18.87	18.76	19.24	19.71	20.21	21.45
	6H	16.45	16.85	17.43	17.85	19.10	19.19	19.59	20.17	20.60	21.84
	8H	16.49	16.84	17.48	17.84	19.10	19.34	19.69	20.33	20.69	21.94
	12H	16.48	16.79	17.47	17.78	19.08	19.43	19.74	20.43	20.73	22.04
12H	4H	16.19	16.63	17.17	17.61	18.86	18.72	19.16	19.70	20.15	21.39
	6H	16.51	16.86	17.50	17.86	19.12	19.19	19.54	20.18	20.54	21.80
	8H	16.58	16.89	17.57	17.88	19.18	19.35	19.66	20.34	20.65	21.95