

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: P934289

Luminaire Tested: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934289
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

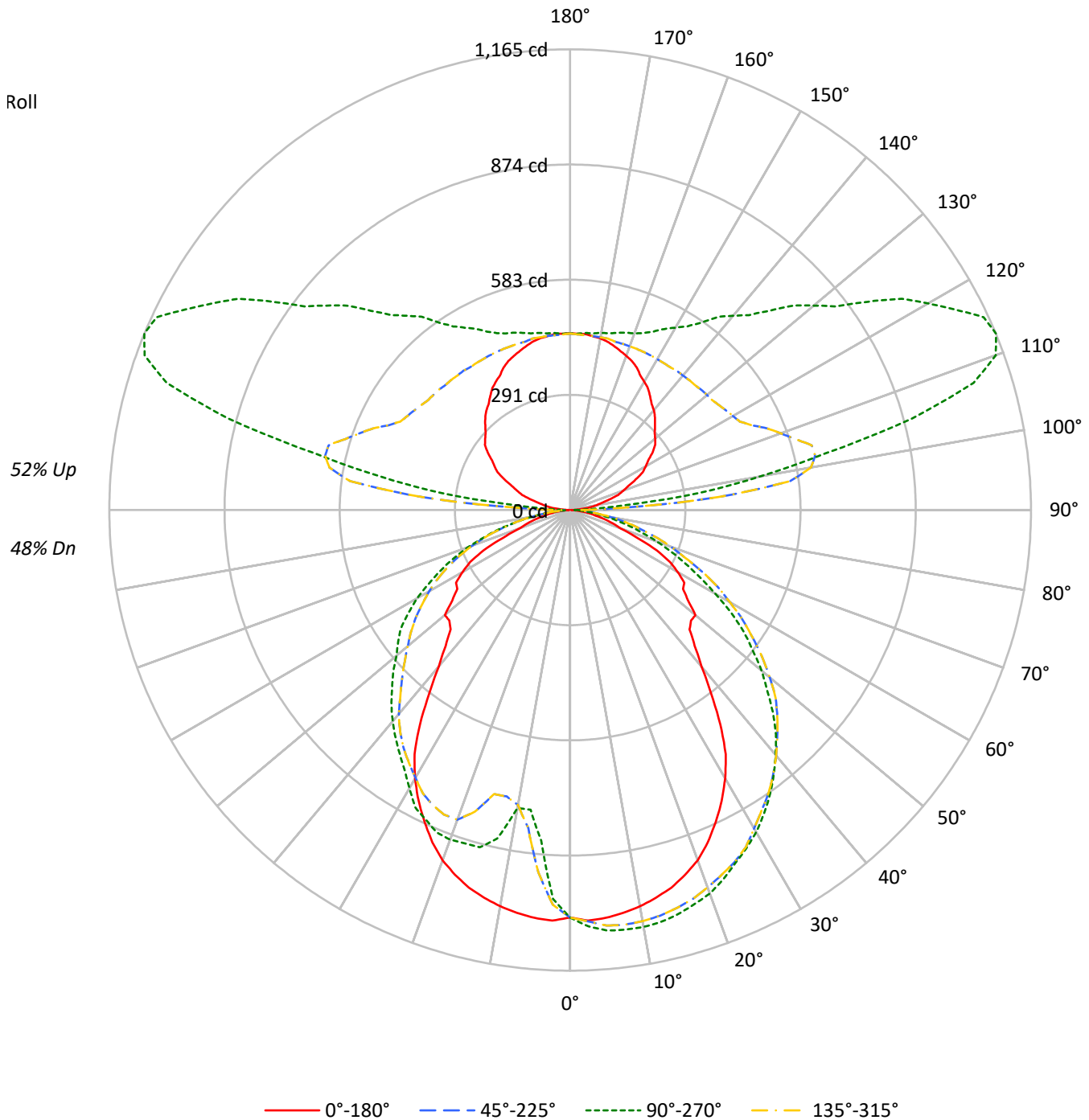
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5566.9 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 42.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6374	6374	6374	6374
5°	6419	6434	6419	5059
10°	6373	6338	6373	4531
15°	6303	6201	6303	5177
20°	6168	6038	6168	5188
25°	5896	5801	5896	5079
30°	5545	5604	5545	4837
35°	4941	5354	4941	4572
40°	4115	5061	4115	4372
45°	3674	4718	3674	4141
50°	3900	4309	3900	3910
55°	3666	3868	3666	3776
60°	3775	3284	3775	3458
65°	3417	2716	3417	3035
70°	2359	2163	2359	2544
75°	2063	1599	2063	1915
80°	1650	1057	1650	1151
85°	930	560	930	475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5635 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	1.7
10°-20°	264.1	4.7
20°-30°	408.2	7.3
30°-40°	487.3	8.8
40°-50°	490.2	8.8
50°-60°	426.5	7.7
60°-70°	302.4	5.4
70°-80°	160.0	2.9
80°-90°	41.6	0.7
90°-100°	217.6	3.9
100°-110°	572.0	10.3
110°-120°	593.1	10.7
120°-130°	475.8	8.5
130°-140°	373.3	6.7
140°-150°	286.5	5.1
150°-160°	206.4	3.7
160°-170°	126.3	2.3
170°-180°	42.7	0.8
0°-30°	765.3	13.7
0°-40°	1252.6	22.5
0°-60°	2169.3	39.0
0°-90°	2673.2	48.0
90°-120°	1382.8	24.8
90°-150°	2518.4	45.2
90°-180°	2894.0	52.0
0°-180°	5566.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1030	1030	1030	1030	1030	
5°	1035	1067	1035	839	1035	98
15°	988	1058	988	883	988	278
25°	870	986	870	864	870	400
35°	662	880	662	752	662	409
45°	427	725	427	636	427	342
55°	348	535	348	522	348	320
65°	242	323	242	361	242	231
75°	92	153	92	183	92	96
85°	16	39	16	33	16	21
90°	3	11	3	11	3	3
95°	29	132	29	132	29	32
105°	103	896	103	896	103	109
115°	183	1153	183	1153	183	181
125°	255	918	255	918	255	226
135°	304	713	304	713	304	235
145°	352	578	352	578	352	221
155°	398	498	398	498	398	183
165°	429	464	429	464	429	121
175°	446	449	446	449	446	42
180°	446	446	446	446	446	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1039.2	1039.2	1045.0	1046.9	1046.9	1044.0	1041.1	1044.0	1052.8	1055.7	1054.8
5°	1035.2	1043.0	1053.8	1055.7	1057.7	1056.7	1054.8	1056.7	1066.4	1068.4	1069.4
7.5°	1027.4	1042.1	1055.7	1058.6	1061.5	1058.6	1057.7	1059.6	1069.4	1071.3	1071.3
10°	1017.6	1038.2	1053.8	1055.7	1058.6	1055.7	1055.7	1059.6	1069.4	1071.3	1072.3
12.5°	1004.1	1032.3	1046.9	1048.8	1052.8	1051.8	1050.8	1054.8	1064.4	1066.4	1066.4
15°	988.5	1021.6	1035.2	1037.2	1044.0	1042.1	1042.1	1045.9	1056.7	1059.6	1058.6
17.5°	967.0	1008.0	1023.6	1026.5	1031.3	1030.3	1031.3	1035.2	1045.0	1046.9	1047.9
20°	942.6	989.4	1008.0	1010.9	1015.7	1015.7	1015.7	1020.6	1030.3	1034.2	1034.2
22.5°	909.5	969.9	989.4	991.4	997.2	997.2	999.1	1006.0	1014.7	1015.7	1015.7
25°	870.5	948.5	965.0	970.9	976.8	979.7	982.6	986.5	989.4	988.5	989.4
27.5°	829.6	921.1	942.6	946.5	954.4	957.3	961.2	962.1	963.1	966.0	964.1
30°	783.7	883.1	915.3	919.2	931.9	933.8	929.9	931.9	936.7	938.8	940.7
32.5°	732.1	826.7	887.0	895.8	907.6	901.7	900.7	903.6	911.4	911.4	913.4
35°	661.9	782.8	860.8	868.5	877.3	870.5	874.4	875.4	880.2	883.1	882.2
37.5°	584.9	744.8	833.4	839.3	846.1	837.3	843.2	846.1	850.0	848.1	848.1
40°	516.7	685.3	801.3	805.1	811.1	804.2	810.1	812.0	814.0	812.0	811.1
42.5°	466.0	620.0	767.2	772.0	768.1	773.0	775.0	778.9	776.0	772.0	772.0
45°	426.9	602.4	730.1	736.0	730.1	737.9	740.8	740.8	732.1	730.1	729.2
47.5°	414.2	567.3	693.1	693.1	690.1	699.9	704.8	698.0	689.2	686.2	686.2
50°	413.3	528.3	642.4	638.5	652.1	663.9	658.9	652.1	645.4	634.6	634.6
52.5°	375.3	480.5	577.0	591.7	613.2	620.0	612.2	605.3	593.6	588.8	584.9
55°	348.0	430.8	517.6	546.9	569.3	578.0	563.5	556.6	539.1	536.1	534.2
57.5°	342.2	358.7	463.0	500.1	527.3	526.4	517.6	504.9	490.3	487.4	486.4
60°	313.9	259.3	404.6	448.5	476.7	473.7	466.0	454.3	440.6	438.7	436.7
62.5°	284.6	188.2	338.3	388.0	427.9	426.9	420.2	402.6	392.8	388.0	384.1
65°	241.8	157.9	240.8	322.7	380.1	382.1	367.5	354.8	344.1	338.3	337.3
67.5°	184.2	128.7	162.8	269.1	334.4	332.4	313.9	308.0	294.4	291.5	285.7
70°	136.4	85.8	113.1	218.3	289.5	284.6	270.1	263.2	250.5	243.7	239.8
72.5°	113.1	69.2	82.8	169.6	243.7	237.9	225.2	217.3	206.7	200.8	196.9
75°	91.7	73.1	63.4	125.8	197.9	194.0	182.3	174.5	165.7	157.9	158.9
77.5°	67.2	68.2	50.7	92.6	157.0	151.1	144.3	134.5	130.6	122.9	122.9
80°	50.7	53.6	38.0	63.4	113.1	113.1	107.3	100.4	93.6	89.7	89.7
82.5°	34.1	34.1	28.3	39.9	77.0	74.1	70.2	68.2	64.3	62.4	62.4
85°	15.6	19.5	17.5	24.3	42.0	43.9	43.9	42.0	41.0	39.0	39.9
87.5°	4.8	8.8	10.8	13.7	21.4	22.4	23.4	23.4	23.4	24.3	24.3
90°	3.0	5.4	7.8	8.4	13.2	19.6	22.8	20.3	15.1	11.3	11.3
92.5°	12.0	32.4	52.7	57.8	81.3	112.6	128.2	112.3	80.6	56.9	54.7
95°	28.8	66.0	103.3	112.6	200.0	316.6	374.8	334.5	253.8	193.2	186.3
97.5°	49.7	82.7	115.5	123.7	269.5	463.8	560.9	535.4	484.3	446.0	432.9
100°	65.9	95.7	125.6	133.0	294.7	510.3	618.0	619.9	623.6	626.5	611.0
102.5°	79.7	107.6	135.4	142.3	306.3	524.9	634.2	666.7	731.7	780.4	767.2
105°	103.1	126.6	150.2	156.1	314.8	526.6	632.4	705.2	850.9	960.2	953.0
107.5°	127.0	149.0	170.9	176.5	316.5	503.1	596.4	698.0	901.2	1053.6	1055.3
110°	143.2	163.0	182.9	187.8	314.1	482.4	566.5	680.0	907.3	1077.6	1085.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.1	178.0	196.9	201.6	314.1	464.2	539.2	655.5	888.0	1062.3	1073.7
115°	183.0	200.5	217.9	222.3	317.1	443.4	506.6	618.6	842.5	1010.5	1026.4
117.5°	206.7	222.6	238.4	242.3	323.0	430.4	484.1	585.2	787.3	938.9	956.5
120°	220.4	235.4	250.3	254.1	327.7	426.0	475.1	567.4	752.1	890.6	907.8
122.5°	234.0	249.0	264.1	267.8	334.6	423.6	468.2	551.4	717.7	842.4	859.3
125°	254.7	268.3	282.1	285.5	343.9	421.8	460.8	531.4	672.7	778.6	794.1
127.5°	271.4	285.3	299.1	302.6	353.2	420.7	454.5	515.1	636.3	727.3	740.4
130°	280.4	295.4	310.3	314.0	360.0	421.3	452.0	506.0	614.1	695.1	707.2
132.5°	289.7	304.7	319.6	323.3	365.5	421.8	450.0	498.4	595.0	667.4	678.3
135°	303.5	317.1	330.6	334.0	371.5	421.4	446.4	486.9	567.8	628.5	637.9
137.5°	317.5	331.0	344.4	347.8	380.4	423.9	445.7	479.9	548.4	599.7	607.4
140°	329.3	341.7	354.0	357.1	386.0	424.4	443.7	473.3	532.4	576.7	583.8
142.5°	338.2	349.6	361.0	364.0	390.5	426.0	443.7	469.7	521.5	560.5	566.7
145°	352.0	362.0	372.0	374.5	396.6	426.0	440.7	461.9	504.4	536.2	540.9
147.5°	365.8	375.5	385.3	387.7	405.3	428.9	440.7	457.4	490.8	515.9	519.8
150°	374.8	383.6	392.3	394.6	410.0	430.4	440.7	454.8	483.0	504.2	507.3
152.5°	384.0	390.7	397.4	399.0	412.9	431.4	440.7	452.7	476.8	494.9	497.2
155°	397.9	402.8	407.7	408.9	419.5	433.6	440.7	450.3	469.5	483.8	485.4
157.5°	408.0	412.8	417.6	418.8	426.1	435.9	440.7	448.2	463.1	474.2	475.3
160°	414.9	418.6	422.3	423.3	429.1	436.8	440.7	447.1	459.9	469.5	470.1
162.5°	421.8	424.6	427.4	428.1	432.3	437.9	440.7	446.1	456.9	464.9	465.5
165°	429.3	431.8	434.3	435.0	436.9	439.4	440.7	444.6	452.2	458.0	458.7
167.5°	436.1	437.3	438.6	438.9	440.5	442.6	443.7	446.2	451.3	455.0	455.3
170°	440.7	441.9	443.1	443.4	443.5	443.6	443.7	446.2	451.3	455.0	455.0
172.5°	443.1	443.4	443.6	443.7	443.7	443.7	443.7	445.6	449.6	452.6	452.4
175°	446.4	446.4	446.4	446.4	445.5	444.3	443.7	445.0	447.5	449.3	449.3
177.5°	446.4	446.4	446.4	446.4	445.7	444.8	444.3	445.3	447.3	448.7	448.5
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1056.7	1053.8	1056.7	1054.8	1055.7	1052.8	1044.0	1041.1	1044.0	1046.9	1046.9
5°	1069.4	1067.4	1069.4	1069.4	1068.4	1066.4	1056.7	1054.8	1056.7	1057.7	1055.7
7.5°	1073.3	1070.4	1073.3	1071.3	1071.3	1069.4	1059.6	1057.7	1058.6	1061.5	1058.6
10°	1073.3	1070.4	1073.3	1072.3	1071.3	1069.4	1059.6	1055.7	1055.7	1058.6	1055.7
12.5°	1068.4	1066.4	1068.4	1066.4	1066.4	1064.4	1054.8	1050.8	1051.8	1052.8	1048.8
15°	1060.6	1057.7	1060.6	1058.6	1059.6	1056.7	1045.9	1042.1	1042.1	1044.0	1037.2
17.5°	1048.8	1045.0	1048.8	1047.9	1046.9	1045.0	1035.2	1031.3	1030.3	1031.3	1026.5
20°	1035.2	1032.3	1035.2	1034.2	1034.2	1030.3	1020.6	1015.7	1015.7	1015.7	1010.9
22.5°	1013.8	1010.9	1013.8	1015.7	1015.7	1014.7	1006.0	999.1	997.2	997.2	991.4
25°	989.4	986.5	989.4	989.4	988.5	989.4	986.5	982.6	979.7	976.8	970.9
27.5°	966.0	964.1	966.0	964.1	966.0	963.1	962.1	961.2	957.3	954.4	946.5
30°	942.6	940.7	942.6	940.7	938.8	936.7	931.9	929.9	933.8	931.9	919.2
32.5°	913.4	911.4	913.4	913.4	911.4	911.4	903.6	900.7	901.7	907.6	895.8
35°	883.1	880.2	883.1	882.2	883.1	880.2	875.4	874.4	870.5	877.3	868.5
37.5°	848.1	845.2	848.1	848.1	848.1	850.0	846.1	843.2	837.3	846.1	839.3
40°	812.0	808.1	812.0	811.1	812.0	814.0	812.0	810.1	804.2	811.1	805.1
42.5°	771.0	770.1	771.0	772.0	772.0	776.0	778.9	775.0	773.0	768.1	772.0
45°	727.2	725.2	727.2	729.2	730.1	732.1	740.8	740.8	737.9	730.1	736.0
47.5°	680.4	675.5	680.4	686.2	686.2	689.2	698.0	704.8	699.9	690.1	693.1
50°	630.7	631.7	630.7	634.6	634.6	645.4	652.1	658.9	663.9	652.1	638.5
52.5°	582.0	581.0	582.0	584.9	588.8	593.6	605.3	612.2	620.0	613.2	591.7
55°	533.2	535.2	533.2	534.2	536.1	539.1	556.6	563.5	578.0	569.3	546.9
57.5°	484.5	481.6	484.5	486.4	487.4	490.3	504.9	517.6	526.4	527.3	500.1
60°	427.9	424.0	427.9	436.7	438.7	440.6	454.3	466.0	473.7	476.7	448.5
62.5°	378.2	371.4	378.2	384.1	388.0	392.8	402.6	420.2	426.9	427.9	388.0
65°	325.6	322.7	325.6	337.3	338.3	344.1	354.8	367.5	382.1	380.1	322.7
67.5°	277.8	277.8	277.8	285.7	291.5	294.4	308.0	313.9	332.4	334.4	269.1
70°	233.9	232.9	233.9	239.8	243.7	250.5	263.2	270.1	284.6	289.5	218.3
72.5°	192.1	191.1	192.1	196.9	200.8	206.7	217.3	225.2	237.9	243.7	169.6
75°	155.0	153.0	155.0	158.9	157.9	165.7	174.5	182.3	194.0	197.9	125.8
77.5°	118.9	118.9	118.9	122.9	122.9	130.6	134.5	144.3	151.1	157.0	92.6
80°	88.7	87.7	88.7	89.7	89.7	93.6	100.4	107.3	113.1	113.1	63.4
82.5°	62.4	60.5	62.4	62.4	62.4	64.3	68.2	70.2	74.1	77.0	39.9
85°	39.0	39.0	39.0	39.9	39.0	41.0	42.0	43.9	43.9	42.0	24.3
87.5°	25.4	24.3	25.4	24.3	24.3	23.4	23.4	23.4	22.4	21.4	13.7
90°	11.3	11.3	11.3	11.3	11.3	15.1	20.3	22.8	19.6	13.2	8.4
92.5°	45.5	36.5	45.5	54.7	56.9	80.6	112.3	128.2	112.6	81.3	57.8
95°	158.9	131.5	158.9	186.3	193.2	253.8	334.5	374.8	316.6	200.0	112.6
97.5°	380.8	328.7	380.8	432.9	446.0	484.3	535.4	560.9	463.8	269.5	123.7
100°	548.7	486.5	548.7	611.0	626.5	623.6	619.9	618.0	510.3	294.7	133.0
102.5°	713.9	660.6	713.9	767.2	780.4	731.7	666.7	634.2	524.9	306.3	142.3
105°	924.4	895.7	924.4	953.0	960.2	850.9	705.2	632.4	526.6	314.8	156.1
107.5°	1062.2	1069.2	1062.2	1055.3	1053.6	901.2	698.0	596.4	503.1	316.5	176.5
110°	1114.8	1144.7	1114.8	1085.1	1077.6	907.3	680.0	566.5	482.4	314.1	187.8



TEST NUMBER: P934289

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1119.6	1165.3	1119.6	1073.7	1062.3	888.0	655.5	539.2	464.2	314.1	201.6
115°	1089.8	1153.4	1089.8	1026.4	1010.5	842.5	618.6	506.6	443.4	317.1	222.3
117.5°	1026.9	1097.4	1026.9	956.5	938.9	787.3	585.2	484.1	430.4	323.0	242.3
120°	976.2	1044.7	976.2	907.8	890.6	752.1	567.4	475.1	426.0	327.7	254.1
122.5°	926.8	994.3	926.8	859.3	842.4	717.7	551.4	468.2	423.6	334.6	267.8
125°	856.3	918.5	856.3	794.1	778.6	672.7	531.4	460.8	421.8	343.9	285.5
127.5°	792.9	845.5	792.9	740.4	727.3	636.3	515.1	454.5	420.7	353.2	302.6
130°	755.6	804.1	755.6	707.2	695.1	614.1	506.0	452.0	421.3	360.0	314.0
132.5°	721.7	765.1	721.7	678.3	667.4	595.0	498.4	450.0	421.8	365.5	323.3
135°	675.3	712.7	675.3	637.9	628.5	567.8	486.9	446.4	421.4	371.5	334.0
137.5°	638.1	668.7	638.1	607.4	599.7	548.4	479.9	445.7	423.9	380.4	347.8
140°	612.4	641.1	612.4	583.8	576.7	532.4	473.3	443.7	424.4	386.0	357.1
142.5°	591.3	615.9	591.3	566.7	560.5	521.5	469.7	443.7	426.0	390.5	364.0
145°	559.6	578.2	559.6	540.9	536.2	504.4	461.9	440.7	426.0	396.6	374.5
147.5°	535.2	550.6	535.2	519.8	515.9	490.8	457.4	440.7	428.9	405.3	387.7
150°	519.9	532.4	519.9	507.3	504.2	483.0	454.8	440.7	430.4	410.0	394.6
152.5°	506.7	516.2	506.7	497.2	494.9	476.8	452.7	440.7	431.4	412.9	399.0
155°	491.7	497.9	491.7	485.4	483.8	469.5	450.3	440.7	433.6	419.5	408.9
157.5°	479.8	484.1	479.8	475.3	474.2	463.1	448.2	440.7	435.9	426.1	418.8
160°	472.6	475.1	472.6	470.1	469.5	459.9	447.1	440.7	436.8	429.1	423.3
162.5°	467.9	470.4	467.9	465.5	464.9	456.9	446.1	440.7	437.9	432.3	428.1
165°	461.2	463.8	461.2	458.7	458.0	452.2	444.6	440.7	439.4	436.9	435.0
167.5°	456.4	457.5	456.4	455.3	455.0	451.3	446.2	443.7	442.6	440.5	438.9
170°	455.0	455.0	455.0	455.0	455.0	451.3	446.2	443.7	443.6	443.5	443.4
172.5°	451.5	450.6	451.5	452.4	452.6	449.6	445.6	443.7	443.7	443.7	443.7
175°	449.3	449.3	449.3	449.3	449.3	447.5	445.0	443.7	444.3	445.5	446.4
177.5°	447.5	446.4	447.5	448.5	448.7	447.3	445.3	444.3	444.8	445.7	446.4
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4



TEST NUMBER: P934289

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1045.0	1039.2	1039.2	1029.4	1025.5	1022.6	1017.6	1003.1	999.1	995.3	1001.1
5°	1053.8	1043.0	1035.2	1017.6	1003.1	997.2	978.7	943.6	920.2	902.6	892.9
7.5°	1055.7	1042.1	1027.4	1000.1	965.0	949.4	892.9	828.6	811.1	795.5	785.7
10°	1053.8	1038.2	1017.6	976.8	893.9	866.6	810.1	768.1	757.4	754.5	757.4
12.5°	1046.9	1032.3	1004.1	935.8	819.8	801.3	768.1	743.8	741.8	746.7	773.0
15°	1035.2	1021.6	988.5	881.2	778.9	765.2	741.8	733.0	743.8	777.9	856.9
17.5°	1023.6	1008.0	967.0	827.6	747.7	737.9	721.3	738.9	799.3	845.2	871.4
20°	1008.0	989.4	942.6	788.6	725.2	716.5	708.6	787.6	833.4	850.0	864.6
22.5°	989.4	969.9	909.5	761.3	701.8	695.1	699.9	814.9	833.4	845.2	857.9
25°	965.0	948.5	870.5	739.8	683.3	675.5	694.1	812.0	822.7	825.7	851.0
27.5°	942.6	921.1	829.6	720.4	661.0	658.0	698.9	799.3	807.2	810.1	837.3
30°	915.3	883.1	783.7	699.9	637.5	636.5	699.9	783.7	781.8	789.5	816.9
32.5°	887.0	826.7	732.1	674.5	615.1	614.2	693.1	760.4	758.4	769.1	789.5
35°	860.8	782.8	661.9	645.4	586.8	587.8	676.5	733.0	734.0	743.8	756.4
37.5°	833.4	744.8	584.9	613.2	559.5	559.5	654.1	707.7	705.7	708.6	726.3
40°	801.3	685.3	516.7	571.2	534.2	531.3	626.7	680.4	673.6	672.6	697.0
42.5°	767.2	620.0	466.0	515.7	504.9	501.1	593.6	647.3	634.6	637.5	668.7
45°	730.1	602.4	426.9	435.8	474.7	471.8	557.6	609.2	600.5	608.2	640.4
47.5°	693.1	567.3	414.2	361.6	442.5	441.6	517.6	572.2	567.3	575.1	609.2
50°	642.4	528.3	413.3	310.0	406.5	410.4	469.9	536.1	536.1	542.9	579.1
52.5°	577.0	480.5	375.3	280.7	364.5	376.3	427.9	504.9	506.9	513.8	545.8
55°	517.6	430.8	348.0	258.3	314.8	340.2	387.0	472.8	476.7	483.5	512.7
57.5°	463.0	358.7	342.2	232.0	269.1	293.4	351.0	441.6	443.5	449.4	477.6
60°	404.6	259.3	313.9	203.7	229.1	247.6	317.7	404.6	411.3	415.2	439.6
62.5°	338.3	188.2	284.6	184.2	209.6	213.5	290.5	369.5	378.2	381.1	395.7
65°	240.8	157.9	241.8	167.6	189.1	190.1	261.2	333.3	341.2	346.0	356.8
67.5°	162.8	128.7	184.2	152.0	173.5	174.5	232.9	291.5	302.2	306.1	312.9
70°	113.1	85.8	136.4	135.5	156.0	157.9	202.7	253.5	263.2	266.1	270.1
72.5°	82.8	69.2	113.1	121.8	137.4	139.4	171.6	210.6	220.4	223.3	225.2
75°	63.4	73.1	91.7	106.3	117.0	117.9	140.4	171.6	178.4	180.3	181.3
77.5°	50.7	68.2	67.2	85.8	95.5	93.6	110.2	132.6	138.4	138.4	138.4
80°	38.0	53.6	50.7	61.4	70.2	68.2	79.0	94.6	96.5	98.5	97.5
82.5°	28.3	34.1	34.1	39.0	46.8	44.9	52.6	61.4	61.4	61.4	63.4
85°	17.5	19.5	15.6	20.4	26.4	25.4	29.3	33.1	34.1	34.1	32.2
87.5°	10.8	8.8	4.8	7.8	11.7	11.7	13.7	14.6	13.7	13.7	13.7
90°	7.8	5.4	3.0	5.4	7.8	8.4	13.2	19.6	22.8	20.3	15.1
92.5°	52.7	32.4	12.0	32.4	52.7	57.8	81.3	112.6	128.2	112.3	80.6
95°	103.3	66.0	28.8	66.0	103.3	112.6	200.0	316.6	374.8	334.5	253.8
97.5°	115.5	82.7	49.7	82.7	115.5	123.7	269.5	463.8	560.9	535.4	484.3
100°	125.6	95.7	65.9	95.7	125.6	133.0	294.7	510.3	618.0	619.9	623.6
102.5°	135.4	107.6	79.7	107.6	135.4	142.3	306.3	524.9	634.2	666.7	731.7
105°	150.2	126.6	103.1	126.6	150.2	156.1	314.8	526.6	632.4	705.2	850.9
107.5°	170.9	149.0	127.0	149.0	170.9	176.5	316.5	503.1	596.4	698.0	901.2
110°	182.9	163.0	143.2	163.0	182.9	187.8	314.1	482.4	566.5	680.0	907.3



TEST NUMBER: P934289

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	196.9	178.0	159.1	178.0	196.9	201.6	314.1	464.2	539.2	655.5	888.0
115°	217.9	200.5	183.0	200.5	217.9	222.3	317.1	443.4	506.6	618.6	842.5
117.5°	238.4	222.6	206.7	222.6	238.4	242.3	323.0	430.4	484.1	585.2	787.3
120°	250.3	235.4	220.4	235.4	250.3	254.1	327.7	426.0	475.1	567.4	752.1
122.5°	264.1	249.0	234.0	249.0	264.1	267.8	334.6	423.6	468.2	551.4	717.7
125°	282.1	268.3	254.7	268.3	282.1	285.5	343.9	421.8	460.8	531.4	672.7
127.5°	299.1	285.3	271.4	285.3	299.1	302.6	353.2	420.7	454.5	515.1	636.3
130°	310.3	295.4	280.4	295.4	310.3	314.0	360.0	421.3	452.0	506.0	614.1
132.5°	319.6	304.7	289.7	304.7	319.6	323.3	365.5	421.8	450.0	498.4	595.0
135°	330.6	317.1	303.5	317.1	330.6	334.0	371.5	421.4	446.4	486.9	567.8
137.5°	344.4	331.0	317.5	331.0	344.4	347.8	380.4	423.9	445.7	479.9	548.4
140°	354.0	341.7	329.3	341.7	354.0	357.1	386.0	424.4	443.7	473.3	532.4
142.5°	361.0	349.6	338.2	349.6	361.0	364.0	390.5	426.0	443.7	469.7	521.5
145°	372.0	362.0	352.0	362.0	372.0	374.5	396.6	426.0	440.7	461.9	504.4
147.5°	385.3	375.5	365.8	375.5	385.3	387.7	405.3	428.9	440.7	457.4	490.8
150°	392.3	383.6	374.8	383.6	392.3	394.6	410.0	430.4	440.7	454.8	483.0
152.5°	397.4	390.7	384.0	390.7	397.4	399.0	412.9	431.4	440.7	452.7	476.8
155°	407.7	402.8	397.9	402.8	407.7	408.9	419.5	433.6	440.7	450.3	469.5
157.5°	417.6	412.8	408.0	412.8	417.6	418.8	426.1	435.9	440.7	448.2	463.1
160°	422.3	418.6	414.9	418.6	422.3	423.3	429.1	436.8	440.7	447.1	459.9
162.5°	427.4	424.6	421.8	424.6	427.4	428.1	432.3	437.9	440.7	446.1	456.9
165°	434.3	431.8	429.3	431.8	434.3	435.0	436.9	439.4	440.7	444.6	452.2
167.5°	438.6	437.3	436.1	437.3	438.6	438.9	440.5	442.6	443.7	446.2	451.3
170°	443.1	441.9	440.7	441.9	443.1	443.4	443.5	443.6	443.7	446.2	451.3
172.5°	443.6	443.4	443.1	443.4	443.6	443.7	443.7	443.7	443.7	445.6	449.6
175°	446.4	446.4	446.4	446.4	446.4	446.4	445.5	444.3	443.7	445.0	447.5
177.5°	446.4	446.4	446.4	446.4	446.4	446.4	445.7	444.8	444.3	445.3	447.3
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4



TEST NUMBER: P934289

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	994.3	991.4	995.3	984.5	995.3	991.4	994.3	1001.1	995.3	999.1	1003.1
5°	872.5	867.5	851.9	839.3	851.9	867.5	872.5	892.9	902.6	920.2	943.6
7.5°	779.9	776.0	772.0	764.3	772.0	776.0	779.9	785.7	795.5	811.1	828.6
10°	759.4	760.4	766.2	765.2	766.2	760.4	759.4	757.4	754.5	757.4	768.1
12.5°	812.0	820.7	852.9	851.0	852.9	820.7	812.0	773.0	746.7	741.8	743.8
15°	872.5	875.4	882.2	883.1	882.2	875.4	872.5	856.9	777.9	743.8	733.0
17.5°	878.3	879.3	884.1	884.1	884.1	879.3	878.3	871.4	845.2	799.3	738.9
20°	873.5	875.4	885.1	887.0	885.1	875.4	873.5	864.6	850.0	833.4	787.6
22.5°	871.4	875.4	883.1	882.2	883.1	875.4	871.4	857.9	845.2	833.4	814.9
25°	861.7	861.7	862.7	863.7	862.7	861.7	861.7	851.0	825.7	822.7	812.0
27.5°	841.3	843.2	849.0	848.1	849.0	843.2	841.3	837.3	810.1	807.2	799.3
30°	822.7	820.7	815.9	812.0	815.9	820.7	822.7	816.9	789.5	781.8	783.7
32.5°	791.6	786.6	781.8	778.9	781.8	786.6	791.6	789.5	769.1	758.4	760.4
35°	754.5	755.4	754.5	751.6	754.5	755.4	754.5	756.4	743.8	734.0	733.0
37.5°	728.2	730.1	729.2	725.2	729.2	730.1	728.2	726.3	708.6	705.7	707.7
40°	700.9	701.8	700.9	698.0	700.9	701.8	700.9	697.0	672.6	673.6	680.4
42.5°	674.5	673.6	670.6	668.7	670.6	673.6	674.5	668.7	637.5	634.6	647.3
45°	644.4	645.4	639.4	636.5	639.4	645.4	644.4	640.4	608.2	600.5	609.2
47.5°	614.2	614.2	609.2	606.3	609.2	614.2	614.2	609.2	575.1	567.3	572.2
50°	582.0	581.0	574.1	573.2	574.1	581.0	582.0	579.1	542.9	536.1	536.1
52.5°	544.9	544.9	545.8	547.9	545.8	544.9	544.9	545.8	513.8	506.9	504.9
55°	512.7	513.8	520.5	522.5	520.5	513.8	512.7	512.7	483.5	476.7	472.8
57.5°	479.6	479.6	484.5	484.5	484.5	479.6	479.6	477.6	449.4	443.5	441.6
60°	441.6	443.5	447.4	446.4	447.4	443.5	441.6	439.6	415.2	411.3	404.6
62.5°	401.7	403.6	404.6	402.6	404.6	403.6	401.7	395.7	381.1	378.2	369.5
65°	359.7	361.6	362.6	360.7	362.6	361.6	359.7	356.8	346.0	341.2	333.3
67.5°	316.8	315.8	314.8	318.8	314.8	315.8	316.8	312.9	306.1	302.2	291.5
70°	273.0	273.0	272.0	273.9	272.0	273.0	273.0	270.1	266.1	263.2	253.5
72.5°	226.2	225.2	229.1	226.2	229.1	225.2	226.2	225.2	223.3	220.4	210.6
75°	180.3	182.3	180.3	183.2	180.3	182.3	180.3	181.3	180.3	178.4	171.6
77.5°	137.4	139.4	137.4	137.4	137.4	139.4	137.4	138.4	138.4	138.4	132.6
80°	97.5	96.5	96.5	95.5	96.5	96.5	97.5	97.5	98.5	96.5	94.6
82.5°	62.4	61.4	61.4	63.4	61.4	61.4	62.4	63.4	61.4	61.4	61.4
85°	34.1	35.1	33.1	33.1	33.1	35.1	34.1	32.2	34.1	34.1	33.1
87.5°	12.7	11.7	11.7	11.7	11.7	11.7	12.7	13.7	13.7	13.7	14.6
90°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	15.1	20.3	22.8	19.6
92.5°	56.9	54.7	45.5	36.5	45.5	54.7	56.9	80.6	112.3	128.2	112.6
95°	193.2	186.3	158.9	131.5	158.9	186.3	193.2	253.8	334.5	374.8	316.6
97.5°	446.0	432.9	380.8	328.7	380.8	432.9	446.0	484.3	535.4	560.9	463.8
100°	626.5	611.0	548.7	486.5	548.7	611.0	626.5	623.6	619.9	618.0	510.3
102.5°	780.4	767.2	713.9	660.6	713.9	767.2	780.4	731.7	666.7	634.2	524.9
105°	960.2	953.0	924.4	895.7	924.4	953.0	960.2	850.9	705.2	632.4	526.6
107.5°	1053.6	1055.3	1062.2	1069.2	1062.2	1055.3	1053.6	901.2	698.0	596.4	503.1
110°	1077.6	1085.1	1114.8	1144.7	1114.8	1085.1	1077.6	907.3	680.0	566.5	482.4



TEST NUMBER: P934289

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1062.3	1073.7	1119.6	1165.3	1119.6	1073.7	1062.3	888.0	655.5	539.2	464.2
115°	1010.5	1026.4	1089.8	1153.4	1089.8	1026.4	1010.5	842.5	618.6	506.6	443.4
117.5°	938.9	956.5	1026.9	1097.4	1026.9	956.5	938.9	787.3	585.2	484.1	430.4
120°	890.6	907.8	976.2	1044.7	976.2	907.8	890.6	752.1	567.4	475.1	426.0
122.5°	842.4	859.3	926.8	994.3	926.8	859.3	842.4	717.7	551.4	468.2	423.6
125°	778.6	794.1	856.3	918.5	856.3	794.1	778.6	672.7	531.4	460.8	421.8
127.5°	727.3	740.4	792.9	845.5	792.9	740.4	727.3	636.3	515.1	454.5	420.7
130°	695.1	707.2	755.6	804.1	755.6	707.2	695.1	614.1	506.0	452.0	421.3
132.5°	667.4	678.3	721.7	765.1	721.7	678.3	667.4	595.0	498.4	450.0	421.8
135°	628.5	637.9	675.3	712.7	675.3	637.9	628.5	567.8	486.9	446.4	421.4
137.5°	599.7	607.4	638.1	668.7	638.1	607.4	599.7	548.4	479.9	445.7	423.9
140°	576.7	583.8	612.4	641.1	612.4	583.8	576.7	532.4	473.3	443.7	424.4
142.5°	560.5	566.7	591.3	615.9	591.3	566.7	560.5	521.5	469.7	443.7	426.0
145°	536.2	540.9	559.6	578.2	559.6	540.9	536.2	504.4	461.9	440.7	426.0
147.5°	515.9	519.8	535.2	550.6	535.2	519.8	515.9	490.8	457.4	440.7	428.9
150°	504.2	507.3	519.9	532.4	519.9	507.3	504.2	483.0	454.8	440.7	430.4
152.5°	494.9	497.2	506.7	516.2	506.7	497.2	494.9	476.8	452.7	440.7	431.4
155°	483.8	485.4	491.7	497.9	491.7	485.4	483.8	469.5	450.3	440.7	433.6
157.5°	474.2	475.3	479.8	484.1	479.8	475.3	474.2	463.1	448.2	440.7	435.9
160°	469.5	470.1	472.6	475.1	472.6	470.1	469.5	459.9	447.1	440.7	436.8
162.5°	464.9	465.5	467.9	470.4	467.9	465.5	464.9	456.9	446.1	440.7	437.9
165°	458.0	458.7	461.2	463.8	461.2	458.7	458.0	452.2	444.6	440.7	439.4
167.5°	455.0	455.3	456.4	457.5	456.4	455.3	455.0	451.3	446.2	443.7	442.6
170°	455.0	455.0	455.0	455.0	455.0	455.0	455.0	451.3	446.2	443.7	443.6
172.5°	452.6	452.4	451.5	450.6	451.5	452.4	452.6	449.6	445.6	443.7	443.7
175°	449.3	449.3	449.3	449.3	449.3	449.3	449.3	447.5	445.0	443.7	444.3
177.5°	448.7	448.5	447.5	446.4	447.5	448.5	448.7	447.3	445.3	444.3	444.8
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4



TEST NUMBER: P934289

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1017.6	1022.6	1025.5	1029.4	1039.2
5°	978.7	997.2	1003.1	1017.6	1035.2
7.5°	892.9	949.4	965.0	1000.1	1027.4
10°	810.1	866.6	893.9	976.8	1017.6
12.5°	768.1	801.3	819.8	935.8	1004.1
15°	741.8	765.2	778.9	881.2	988.5
17.5°	721.3	737.9	747.7	827.6	967.0
20°	708.6	716.5	725.2	788.6	942.6
22.5°	699.9	695.1	701.8	761.3	909.5
25°	694.1	675.5	683.3	739.8	870.5
27.5°	698.9	658.0	661.0	720.4	829.6
30°	699.9	636.5	637.5	699.9	783.7
32.5°	693.1	614.2	615.1	674.5	732.1
35°	676.5	587.8	586.8	645.4	661.9
37.5°	654.1	559.5	559.5	613.2	584.9
40°	626.7	531.3	534.2	571.2	516.7
42.5°	593.6	501.1	504.9	515.7	466.0
45°	557.6	471.8	474.7	435.8	426.9
47.5°	517.6	441.6	442.5	361.6	414.2
50°	469.9	410.4	406.5	310.0	413.3
52.5°	427.9	376.3	364.5	280.7	375.3
55°	387.0	340.2	314.8	258.3	348.0
57.5°	351.0	293.4	269.1	232.0	342.2
60°	317.7	247.6	229.1	203.7	313.9
62.5°	290.5	213.5	209.6	184.2	284.6
65°	261.2	190.1	189.1	167.6	241.8
67.5°	232.9	174.5	173.5	152.0	184.2
70°	202.7	157.9	156.0	135.5	136.4
72.5°	171.6	139.4	137.4	121.8	113.1
75°	140.4	117.9	117.0	106.3	91.7
77.5°	110.2	93.6	95.5	85.8	67.2
80°	79.0	68.2	70.2	61.4	50.7
82.5°	52.6	44.9	46.8	39.0	34.1
85°	29.3	25.4	26.4	20.4	15.6
87.5°	13.7	11.7	11.7	7.8	4.8
90°	13.2	8.4	7.8	5.4	3.0
92.5°	81.3	57.8	52.7	32.4	12.0
95°	200.0	112.6	103.3	66.0	28.8
97.5°	269.5	123.7	115.5	82.7	49.7
100°	294.7	133.0	125.6	95.7	65.9
102.5°	306.3	142.3	135.4	107.6	79.7
105°	314.8	156.1	150.2	126.6	103.1
107.5°	316.5	176.5	170.9	149.0	127.0
110°	314.1	187.8	182.9	163.0	143.2



TEST NUMBER: P934289

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	314.1	201.6	196.9	178.0	159.1
115°	317.1	222.3	217.9	200.5	183.0
117.5°	323.0	242.3	238.4	222.6	206.7
120°	327.7	254.1	250.3	235.4	220.4
122.5°	334.6	267.8	264.1	249.0	234.0
125°	343.9	285.5	282.1	268.3	254.7
127.5°	353.2	302.6	299.1	285.3	271.4
130°	360.0	314.0	310.3	295.4	280.4
132.5°	365.5	323.3	319.6	304.7	289.7
135°	371.5	334.0	330.6	317.1	303.5
137.5°	380.4	347.8	344.4	331.0	317.5
140°	386.0	357.1	354.0	341.7	329.3
142.5°	390.5	364.0	361.0	349.6	338.2
145°	396.6	374.5	372.0	362.0	352.0
147.5°	405.3	387.7	385.3	375.5	365.8
150°	410.0	394.6	392.3	383.6	374.8
152.5°	412.9	399.0	397.4	390.7	384.0
155°	419.5	408.9	407.7	402.8	397.9
157.5°	426.1	418.8	417.6	412.8	408.0
160°	429.1	423.3	422.3	418.6	414.9
162.5°	432.3	428.1	427.4	424.6	421.8
165°	436.9	435.0	434.3	431.8	429.3
167.5°	440.5	438.9	438.6	437.3	436.1
170°	443.5	443.4	443.1	441.9	440.7
172.5°	443.7	443.7	443.6	443.4	443.1
175°	445.5	446.4	446.4	446.4	446.4
177.5°	445.7	446.4	446.4	446.4	446.4
180°	446.4	446.4	446.4	446.4	446.4



TEST NUMBER: P934289
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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	11.05	11.90	12.03	12.88	14.18	13.88	14.72	14.85	15.71	17.01
	3H	11.53	12.28	12.51	13.28	14.60	15.22	15.97	16.20	16.97	18.29
	4H	11.72	12.43	12.72	13.43	14.76	15.66	16.38	16.66	17.38	18.71
	6H	11.84	12.50	12.85	13.50	14.84	15.94	16.60	16.95	17.61	18.95
	8H	11.84	12.46	12.85	13.49	14.82	16.02	16.64	17.03	17.67	19.00
	12H	11.81	12.40	12.83	13.42	14.78	16.05	16.65	17.07	17.67	19.03
4H	2H	12.08	12.80	13.09	13.80	15.13	14.28	15.00	15.29	16.00	17.33
	3H	13.11	13.70	14.12	14.73	16.07	15.79	16.38	16.80	17.41	18.75
	4H	13.38	13.93	14.40	14.95	16.31	16.31	16.86	17.33	17.88	19.24
	6H	13.51	13.98	14.54	15.02	16.38	16.67	17.14	17.71	18.19	19.55
	8H	13.51	13.95	14.54	14.99	16.36	16.78	17.22	17.81	18.26	19.63
	12H	13.48	13.87	14.53	14.93	16.31	16.84	17.23	17.89	18.28	19.67
8H	4H	13.83	14.27	14.87	15.31	16.69	16.44	16.87	17.47	17.91	19.29
	6H	14.09	14.46	15.15	15.54	16.91	16.87	17.23	17.93	18.31	19.69
	8H	14.14	14.45	15.20	15.52	16.91	17.02	17.34	18.09	18.40	19.80
	12H	14.12	14.40	15.19	15.46	16.90	17.12	17.40	18.19	18.46	19.89
12H	4H	13.84	14.23	14.89	15.29	16.67	16.40	16.79	17.45	17.85	19.23
	6H	14.15	14.47	15.22	15.54	16.93	16.87	17.19	17.93	18.25	19.64
	8H	14.22	14.50	15.29	15.56	17.00	17.03	17.31	18.09	18.37	19.80