

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: P934335

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934335
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-92765-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

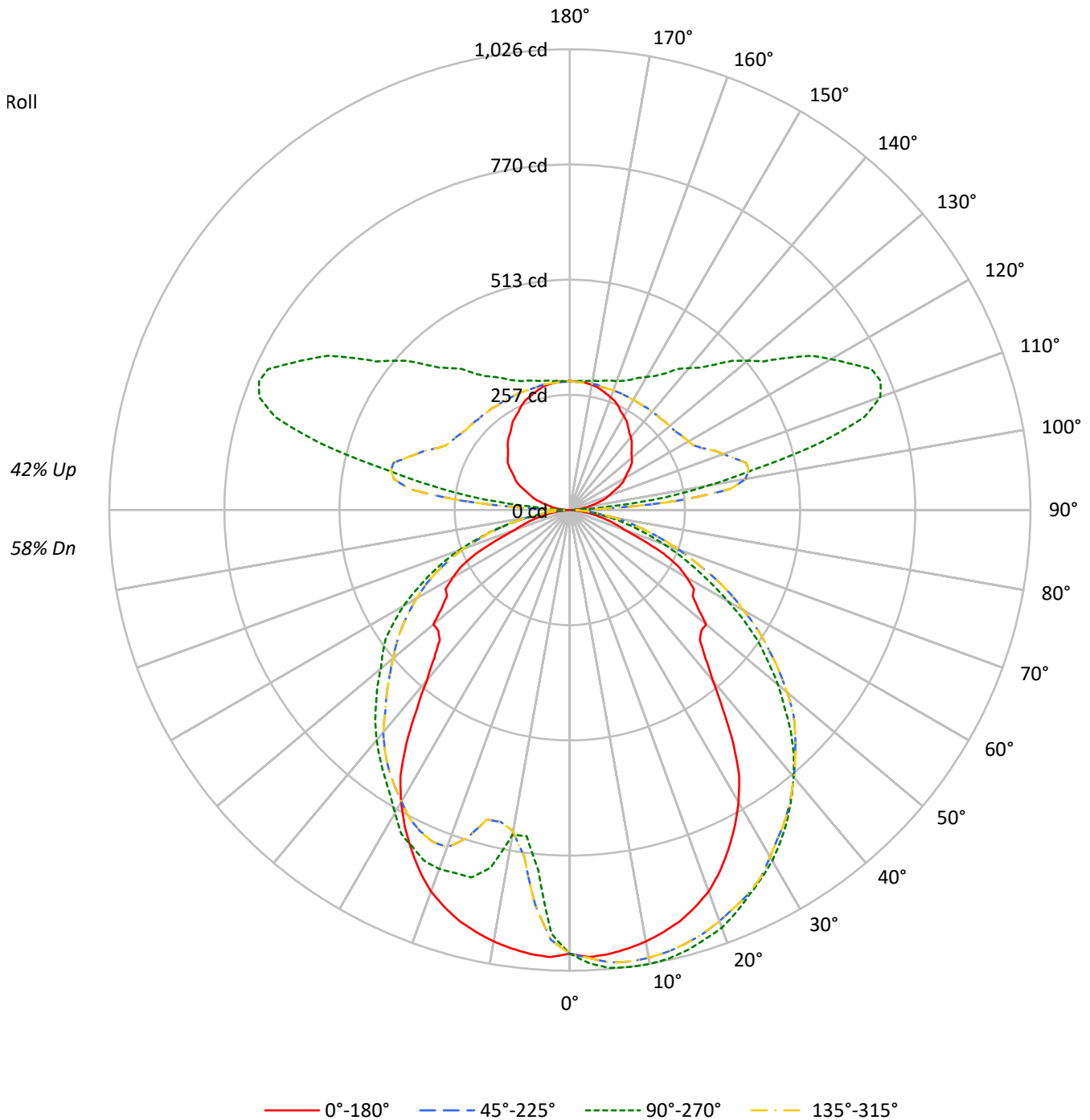
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4423.9 lumens
Efficiency: N/A
Efficacy: 121.5 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

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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	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°	9169	9169	9169	9169
5°	9227	9256	9227	7278
10°	9155	9118	9155	6518
15°	9045	8920	9045	7448
20°	8846	8685	8846	7464
25°	8449	8344	8449	7305
30°	7939	8061	7939	6958
35°	7067	7702	7067	6577
40°	5879	7281	5879	6288
45°	5243	6787	5243	5957
50°	5557	6198	5557	5624
55°	5214	5563	5214	5432
60°	5354	4725	5354	4975
65°	4831	3905	4831	4366
70°	3323	3112	3323	3660
75°	2882	2300	2882	2754
80°	2275	1521	2275	1656
85°	1242	806	1242	685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8050 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	2.0
10°-20°	253.2	5.7
20°-30°	391.5	8.8
30°-40°	467.3	10.6
40°-50°	470.1	10.6
50°-60°	409.0	9.2
60°-70°	290.0	6.6
70°-80°	153.4	3.5
80°-90°	39.3	0.9
90°-100°	139.9	3.2
100°-110°	367.9	8.3
110°-120°	381.4	8.6
120°-130°	306.0	6.9
130°-140°	240.1	5.4
140°-150°	184.3	4.2
150°-160°	132.7	3.0
160°-170°	81.2	1.8
170°-180°	27.4	0.6
0°-30°	733.9	16.6
0°-40°	1201.2	27.2
0°-60°	2080.4	47.0
0°-90°	2563.1	57.9
90°-120°	889.2	20.1
90°-150°	1619.5	36.6
90°-180°	1861.0	42.1
0°-180°	4423.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	988	988	988	988	988	
5°	993	1024	993	805	993	94
15°	948	1014	948	847	948	267
25°	835	946	835	828	835	383
35°	635	844	635	721	635	393
45°	410	696	410	610	410	328
55°	334	513	334	501	334	307
65°	232	309	232	346	232	222
75°	88	147	88	176	88	92
85°	15	37	15	32	15	20
90°	2	7	2	7	2	2
95°	18	85	18	85	18	21
105°	66	576	66	576	66	70
115°	118	742	118	742	118	116
125°	164	591	164	591	164	145
135°	195	458	195	458	195	151
145°	226	372	226	372	226	142
155°	256	320	256	320	256	118
165°	276	298	276	298	276	78
175°	287	289	287	289	287	27
180°	287	287	287	287	287	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	996.5	996.5	1002.2	1004.1	1004.1	1001.3	998.5	1001.3	1009.7	1012.5	1011.5
5°	992.8	1000.3	1010.6	1012.5	1014.3	1013.4	1011.5	1013.4	1022.8	1024.6	1025.6
7.5°	985.3	999.4	1012.5	1015.3	1018.1	1015.3	1014.3	1016.2	1025.6	1027.4	1027.4
10°	975.9	995.6	1010.6	1012.5	1015.3	1012.5	1012.5	1016.2	1025.6	1027.4	1028.4
12.5°	962.8	989.9	1004.1	1005.9	1009.7	1008.7	1007.8	1011.5	1020.9	1022.8	1022.8
15°	947.9	979.7	992.8	994.6	1001.3	999.4	999.4	1003.1	1013.4	1016.2	1015.3
17.5°	927.3	966.6	981.5	984.3	989.0	988.1	989.0	992.8	1002.2	1004.1	1005.0
20°	904.0	948.8	966.6	969.4	974.1	974.1	974.1	978.7	988.1	991.8	991.8
22.5°	872.2	930.1	948.8	950.7	956.3	956.3	958.2	964.7	973.1	974.1	974.1
25°	834.8	909.6	925.5	931.1	936.7	939.5	942.3	946.0	948.8	947.9	948.8
27.5°	795.5	883.4	904.0	907.7	915.2	918.0	921.7	922.6	923.6	926.4	924.5
30°	751.6	846.9	877.8	881.5	893.7	895.5	891.8	893.7	898.3	900.2	902.1
32.5°	702.1	792.7	850.7	859.1	870.3	864.7	863.8	866.6	874.0	874.0	875.9
35°	634.8	750.7	825.4	832.9	841.3	834.8	838.5	839.5	844.1	846.9	846.0
37.5°	560.9	714.2	799.3	804.9	811.4	803.0	808.6	811.4	815.2	813.3	813.3
40°	495.5	657.2	768.4	772.2	777.8	771.2	776.8	778.7	780.6	778.7	777.8
42.5°	446.9	594.6	735.7	740.4	736.6	741.3	743.2	746.9	744.1	740.4	740.4
45°	409.5	577.7	700.2	705.8	700.2	707.7	710.5	710.5	702.1	700.2	699.3
47.5°	397.3	544.1	664.7	664.7	661.9	671.2	675.9	669.3	660.9	658.1	658.1
50°	396.4	506.7	616.1	612.3	625.4	636.6	632.0	625.4	618.9	608.6	608.6
52.5°	360.0	460.9	553.4	567.5	588.0	594.6	587.1	580.5	569.3	564.7	560.9
55°	333.8	413.2	496.4	524.5	546.0	554.4	540.4	533.8	517.0	514.2	512.3
57.5°	328.1	344.1	444.1	479.6	505.8	504.8	496.4	484.3	470.3	467.4	466.5
60°	301.0	248.6	388.0	430.1	457.2	454.4	446.9	435.7	422.6	420.7	418.8
62.5°	272.9	180.4	324.3	372.1	410.4	409.5	403.0	386.1	376.8	372.1	368.4
65°	231.8	151.4	230.9	309.4	364.6	366.5	352.5	340.3	330.0	324.3	323.4
67.5°	176.7	123.4	156.1	258.0	320.6	318.7	301.0	295.4	282.3	279.5	273.9
70°	130.9	82.3	108.4	209.4	277.6	272.9	258.9	252.4	240.2	233.7	229.9
72.5°	108.4	66.4	79.5	162.6	233.7	228.1	215.9	208.4	198.2	192.5	188.8
75°	87.9	70.1	60.8	120.6	189.7	186.0	174.8	167.3	158.9	151.4	152.4
77.5°	64.5	65.4	48.6	88.8	150.5	144.9	138.3	129.0	125.3	117.8	117.8
80°	48.6	51.4	36.5	60.8	108.4	108.4	102.8	96.3	89.7	86.0	86.0
82.5°	32.7	32.7	27.1	38.3	73.8	71.0	67.3	65.4	61.7	59.8	59.8
85°	15.0	18.7	16.8	23.4	40.2	42.1	42.1	40.2	39.3	37.4	38.3
87.5°	4.7	8.4	10.3	13.1	20.6	21.5	22.4	22.4	22.4	23.4	23.4
90°	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7	7.3	7.3
92.5°	7.7	20.8	33.9	37.2	52.3	72.3	82.4	72.3	51.9	36.6	35.1
95°	18.5	42.4	66.5	72.4	128.6	203.5	241.0	215.0	163.1	124.2	119.8
97.5°	32.0	53.1	74.2	79.5	173.2	298.2	360.6	344.3	311.4	286.9	278.4
100°	42.3	61.5	80.8	85.5	189.5	328.1	397.4	398.7	401.1	402.9	392.9
102.5°	51.2	69.2	87.0	91.5	196.9	337.5	407.8	428.7	470.5	501.8	493.2
105°	66.3	81.4	96.6	100.4	202.5	338.6	406.7	453.5	547.2	617.5	612.9
107.5°	81.7	95.8	109.9	113.5	203.5	323.6	383.6	448.9	579.6	677.6	678.7
110°	92.1	104.8	117.6	120.8	202.0	310.2	364.3	437.3	583.4	693.0	697.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	102.3	114.4	126.6	129.6	202.0	298.5	346.8	421.6	571.0	683.2	690.6
115°	117.7	128.9	140.1	142.9	203.9	285.1	325.7	397.7	541.8	649.8	660.0
117.5°	132.9	143.1	153.3	155.8	207.7	276.8	311.4	376.3	506.2	603.7	615.0
120°	141.8	151.4	161.0	163.4	210.8	274.0	305.6	364.9	483.7	572.8	583.8
122.5°	150.5	160.2	169.8	172.3	215.2	272.5	301.1	354.5	461.6	541.8	552.6
125°	163.8	172.5	181.3	183.6	221.2	271.3	296.3	341.7	432.6	500.7	510.7
127.5°	174.5	183.5	192.4	194.6	227.1	270.6	292.3	331.3	409.2	467.7	476.1
130°	180.3	189.9	199.5	201.9	231.5	271.0	290.7	325.5	394.9	447.0	454.7
132.5°	186.3	195.9	205.4	207.9	235.1	271.3	289.4	320.4	382.6	429.2	436.2
135°	195.2	203.9	212.6	214.8	238.9	271.0	287.0	313.0	365.1	404.2	410.1
137.5°	204.2	212.8	221.5	223.7	244.7	272.7	286.7	308.6	352.7	385.7	390.6
140°	211.7	219.7	227.7	229.7	248.2	272.9	285.3	304.3	342.4	370.9	375.5
142.5°	217.5	224.9	232.2	234.1	251.2	273.9	285.3	302.0	335.4	360.4	364.3
145°	226.4	232.7	239.2	240.8	255.0	274.0	283.4	297.0	324.3	344.8	347.8
147.5°	235.3	241.5	247.7	249.3	260.7	275.8	283.4	294.2	315.7	331.7	334.3
150°	241.0	246.6	252.3	253.7	263.6	276.8	283.4	292.5	310.6	324.2	326.3
152.5°	246.9	251.2	255.5	256.6	265.5	277.4	283.4	291.2	306.7	318.3	319.8
155°	255.8	259.0	262.2	262.9	269.8	278.8	283.4	289.6	301.9	311.2	312.2
157.5°	262.4	265.5	268.5	269.3	274.0	280.2	283.4	288.2	297.8	305.0	305.7
160°	266.9	269.2	271.6	272.2	275.9	280.9	283.4	287.5	295.7	301.9	302.3
162.5°	271.3	273.0	274.8	275.3	278.0	281.6	283.4	286.9	293.8	299.0	299.4
165°	276.1	277.7	279.4	279.8	281.0	282.6	283.4	285.8	290.8	294.5	294.9
167.5°	280.5	281.3	282.0	282.2	283.2	284.6	285.3	287.0	290.2	292.7	292.8
170°	283.4	284.2	284.9	285.1	285.2	285.3	285.3	287.0	290.2	292.7	292.7
172.5°	284.9	285.1	285.3	285.3	285.3	285.3	285.3	286.6	289.1	291.1	290.9
175°	287.0	287.0	287.0	287.0	286.5	285.6	285.3	286.1	287.8	289.0	289.0
177.5°	287.0	287.0	287.0	287.0	286.6	286.0	285.7	286.4	287.7	288.6	288.5
180°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	1013.4	1010.6	1013.4	1011.5	1012.5	1009.7	1001.3	998.5	1001.3	1004.1	1004.1
5°	1025.6	1023.7	1025.6	1025.6	1024.6	1022.8	1013.4	1011.5	1013.4	1014.3	1012.5
7.5°	1029.3	1026.5	1029.3	1027.4	1027.4	1025.6	1016.2	1014.3	1015.3	1018.1	1015.3
10°	1029.3	1026.5	1029.3	1028.4	1027.4	1025.6	1016.2	1012.5	1012.5	1015.3	1012.5
12.5°	1024.6	1022.8	1024.6	1022.8	1022.8	1020.9	1011.5	1007.8	1008.7	1009.7	1005.9
15°	1017.1	1014.3	1017.1	1015.3	1016.2	1013.4	1003.1	999.4	999.4	1001.3	994.6
17.5°	1005.9	1002.2	1005.9	1005.0	1004.1	1002.2	992.8	989.0	988.1	989.0	984.3
20°	992.8	989.9	992.8	991.8	991.8	988.1	978.7	974.1	974.1	974.1	969.4
22.5°	972.2	969.4	972.2	974.1	974.1	973.1	964.7	958.2	956.3	956.3	950.7
25°	948.8	946.0	948.8	948.8	947.9	948.8	946.0	942.3	939.5	936.7	931.1
27.5°	926.4	924.5	926.4	924.5	926.4	923.6	922.6	921.7	918.0	915.2	907.7
30°	904.0	902.1	904.0	902.1	900.2	898.3	893.7	891.8	895.5	893.7	881.5
32.5°	875.9	874.0	875.9	875.9	874.0	874.0	866.6	863.8	864.7	870.3	859.1
35°	846.9	844.1	846.9	846.0	846.9	844.1	839.5	838.5	834.8	841.3	832.9
37.5°	813.3	810.5	813.3	813.3	813.3	815.2	811.4	808.6	803.0	811.4	804.9
40°	778.7	775.0	778.7	777.8	778.7	780.6	778.7	776.8	771.2	777.8	772.2
42.5°	739.4	738.5	739.4	740.4	740.4	744.1	746.9	743.2	741.3	736.6	740.4
45°	697.4	695.5	697.4	699.3	700.2	702.1	710.5	710.5	707.7	700.2	705.8
47.5°	652.5	647.8	652.5	658.1	658.1	660.9	669.3	675.9	671.2	661.9	664.7
50°	604.8	605.8	604.8	608.6	608.6	618.9	625.4	632.0	636.6	625.4	612.3
52.5°	558.1	557.2	558.1	560.9	564.7	569.3	580.5	587.1	594.6	588.0	567.5
55°	511.4	513.2	511.4	512.3	514.2	517.0	533.8	540.4	554.4	546.0	524.5
57.5°	464.6	461.8	464.6	466.5	467.4	470.3	484.3	496.4	504.8	505.8	479.6
60°	410.4	406.7	410.4	418.8	420.7	422.6	435.7	446.9	454.4	457.2	430.1
62.5°	362.8	356.2	362.8	368.4	372.1	376.8	386.1	403.0	409.5	410.4	372.1
65°	312.2	309.4	312.2	323.4	324.3	330.0	340.3	352.5	366.5	364.6	309.4
67.5°	266.4	266.4	266.4	273.9	279.5	282.3	295.4	301.0	318.7	320.6	258.0
70°	224.3	223.4	224.3	229.9	233.7	240.2	252.4	258.9	272.9	277.6	209.4
72.5°	184.1	183.2	184.1	188.8	192.5	198.2	208.4	215.9	228.1	233.7	162.6
75°	148.6	146.7	148.6	152.4	151.4	158.9	167.3	174.8	186.0	189.7	120.6
77.5°	114.0	114.0	114.0	117.8	117.8	125.3	129.0	138.3	144.9	150.5	88.8
80°	85.1	84.1	85.1	86.0	86.0	89.7	96.3	102.8	108.4	108.4	60.8
82.5°	59.8	58.0	59.8	59.8	59.8	61.7	65.4	67.3	71.0	73.8	38.3
85°	37.4	37.4	37.4	38.3	37.4	39.3	40.2	42.1	42.1	40.2	23.4
87.5°	24.3	23.4	24.3	23.4	23.4	22.4	22.4	22.4	21.5	20.6	13.1
90°	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6	8.5	5.4
92.5°	29.3	23.5	29.3	35.1	36.6	51.9	72.3	82.4	72.3	52.3	37.2
95°	102.2	84.6	102.2	119.8	124.2	163.1	215.0	241.0	203.5	128.6	72.4
97.5°	244.9	211.3	244.9	278.4	286.9	311.4	344.3	360.6	298.2	173.2	79.5
100°	352.9	312.8	352.9	392.9	402.9	401.1	398.7	397.4	328.1	189.5	85.5
102.5°	459.0	424.8	459.0	493.2	501.8	470.5	428.7	407.8	337.5	196.9	91.5
105°	594.5	576.1	594.5	612.9	617.5	547.2	453.5	406.7	338.6	202.5	100.4
107.5°	683.1	687.6	683.1	678.7	677.6	579.6	448.9	383.6	323.6	203.5	113.5
110°	716.9	736.1	716.9	697.8	693.0	583.4	437.3	364.3	310.2	202.0	120.8



TEST NUMBER: P934335

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	720.0	749.4	720.0	690.6	683.2	571.0	421.6	346.8	298.5	202.0	129.6
115°	700.8	741.7	700.8	660.0	649.8	541.8	397.7	325.7	285.1	203.9	142.9
117.5°	660.4	705.7	660.4	615.0	603.7	506.2	376.3	311.4	276.8	207.7	155.8
120°	627.7	671.8	627.7	583.8	572.8	483.7	364.9	305.6	274.0	210.8	163.4
122.5°	596.1	639.4	596.1	552.6	541.8	461.6	354.5	301.1	272.5	215.2	172.3
125°	550.6	590.6	550.6	510.7	500.7	432.6	341.7	296.3	271.3	221.2	183.6
127.5°	509.9	543.6	509.9	476.1	467.7	409.2	331.3	292.3	270.6	227.1	194.6
130°	486.0	517.1	486.0	454.7	447.0	394.9	325.5	290.7	271.0	231.5	201.9
132.5°	464.1	492.0	464.1	436.2	429.2	382.6	320.4	289.4	271.3	235.1	207.9
135°	434.3	458.3	434.3	410.1	404.2	365.1	313.0	287.0	271.0	238.9	214.8
137.5°	410.2	430.0	410.2	390.6	385.7	352.7	308.6	286.7	272.7	244.7	223.7
140°	393.9	412.3	393.9	375.5	370.9	342.4	304.3	285.3	272.9	248.2	229.7
142.5°	380.2	396.1	380.2	364.3	360.4	335.4	302.0	285.3	273.9	251.2	234.1
145°	359.9	371.8	359.9	347.8	344.8	324.3	297.0	283.4	274.0	255.0	240.8
147.5°	344.2	354.1	344.2	334.3	331.7	315.7	294.2	283.4	275.8	260.7	249.3
150°	334.3	342.4	334.3	326.3	324.2	310.6	292.5	283.4	276.8	263.6	253.7
152.5°	325.8	331.9	325.8	319.8	318.3	306.7	291.2	283.4	277.4	265.5	256.6
155°	316.2	320.2	316.2	312.2	311.2	301.9	289.6	283.4	278.8	269.8	262.9
157.5°	308.5	311.4	308.5	305.7	305.0	297.8	288.2	283.4	280.2	274.0	269.3
160°	304.0	305.6	304.0	302.3	301.9	295.7	287.5	283.4	280.9	275.9	272.2
162.5°	301.0	302.5	301.0	299.4	299.0	293.8	286.9	283.4	281.6	278.0	275.3
165°	296.6	298.3	296.6	294.9	294.5	290.8	285.8	283.4	282.6	281.0	279.8
167.5°	293.5	294.2	293.5	292.8	292.7	290.2	287.0	285.3	284.6	283.2	282.2
170°	292.7	292.7	292.7	292.7	292.7	290.2	287.0	285.3	285.3	285.2	285.1
172.5°	290.3	289.8	290.3	290.9	291.1	289.1	286.6	285.3	285.3	285.3	285.3
175°	289.0	289.0	289.0	289.0	289.0	287.8	286.1	285.3	285.6	286.5	287.0
177.5°	287.8	287.0	287.8	288.5	288.6	287.7	286.4	285.7	286.0	286.6	287.0
180°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0



TEST NUMBER: P934335

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	1002.2	996.5	996.5	987.1	983.4	980.6	975.9	961.9	958.2	954.4	960.0
5°	1010.6	1000.3	992.8	975.9	961.9	956.3	938.5	904.9	882.5	865.6	856.3
7.5°	1012.5	999.4	985.3	959.1	925.5	910.5	856.3	794.6	777.8	762.8	753.5
10°	1010.6	995.6	975.9	936.7	857.2	831.0	776.8	736.6	726.4	723.6	726.4
12.5°	1004.1	989.9	962.8	897.4	786.2	768.4	736.6	713.3	711.4	716.1	741.3
15°	992.8	979.7	947.9	845.1	746.9	733.8	711.4	703.0	713.3	746.0	821.7
17.5°	981.5	966.6	927.3	793.7	717.0	707.7	691.8	708.6	766.6	810.5	835.7
20°	966.6	948.8	904.0	756.3	695.5	687.1	679.6	755.3	799.3	815.2	829.2
22.5°	948.8	930.1	872.2	730.1	673.1	666.5	671.2	781.5	799.3	810.5	822.6
25°	925.5	909.6	834.8	709.5	655.3	647.8	665.6	778.7	789.0	791.8	816.1
27.5°	904.0	883.4	795.5	690.8	633.8	631.0	670.3	766.6	774.0	776.8	803.0
30°	877.8	846.9	751.6	671.2	611.4	610.5	671.2	751.6	749.7	757.2	783.4
32.5°	850.7	792.7	702.1	646.9	589.9	589.0	664.7	729.2	727.3	737.6	757.2
35°	825.4	750.7	634.8	618.9	562.8	563.7	648.8	703.0	703.9	713.3	725.4
37.5°	799.3	714.2	560.9	588.0	536.6	536.6	627.3	678.7	676.8	679.6	696.4
40°	768.4	657.2	495.5	547.8	512.3	509.5	601.1	652.5	646.0	645.0	668.4
42.5°	735.7	594.6	446.9	494.6	484.3	480.5	569.3	620.7	608.6	611.4	641.3
45°	700.2	577.7	409.5	417.9	455.3	452.5	534.7	584.3	575.9	583.4	614.2
47.5°	664.7	544.1	397.3	346.9	424.4	423.5	496.4	548.8	544.1	551.6	584.3
50°	616.1	506.7	396.4	297.2	389.9	393.6	450.6	514.2	514.2	520.7	555.3
52.5°	553.4	460.9	360.0	269.2	349.7	360.9	410.4	484.3	486.1	492.7	523.5
55°	496.4	413.2	333.8	247.7	301.9	326.2	371.2	453.4	457.2	463.7	491.7
57.5°	444.1	344.1	328.1	222.5	258.0	281.3	336.6	423.5	425.4	431.0	458.1
60°	388.0	248.6	301.0	195.4	219.7	237.4	304.7	388.0	394.5	398.3	421.6
62.5°	324.3	180.4	272.9	176.7	201.0	204.7	278.5	354.3	362.8	365.6	379.6
65°	230.9	151.4	231.8	160.8	181.3	182.3	250.5	319.7	327.1	331.8	342.2
67.5°	156.1	123.4	176.7	145.8	166.4	167.3	223.4	279.5	289.8	293.5	300.0
70°	108.4	82.3	130.9	129.9	149.6	151.4	194.4	243.0	252.4	255.2	258.9
72.5°	79.5	66.4	108.4	116.8	131.8	133.7	164.5	201.9	211.2	214.0	215.9
75°	60.8	70.1	87.9	101.9	112.2	113.1	134.6	164.5	171.1	172.9	173.9
77.5°	48.6	65.4	64.5	82.3	91.6	89.7	105.6	127.1	132.7	132.7	132.7
80°	36.5	51.4	48.6	58.9	67.3	65.4	75.7	90.7	92.5	94.4	93.5
82.5°	27.1	32.7	32.7	37.4	44.9	43.0	50.5	58.9	58.9	58.9	60.8
85°	16.8	18.7	15.0	19.6	25.2	24.3	28.0	31.8	32.7	32.7	30.8
87.5°	10.3	8.4	4.7	7.5	11.2	11.2	13.1	14.0	13.1	13.1	13.1
90°	5.0	3.5	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7
92.5°	33.9	20.8	7.7	20.8	33.9	37.2	52.3	72.3	82.4	72.3	51.9
95°	66.5	42.4	18.5	42.4	66.5	72.4	128.6	203.5	241.0	215.0	163.1
97.5°	74.2	53.1	32.0	53.1	74.2	79.5	173.2	298.2	360.6	344.3	311.4
100°	80.8	61.5	42.3	61.5	80.8	85.5	189.5	328.1	397.4	398.7	401.1
102.5°	87.0	69.2	51.2	69.2	87.0	91.5	196.9	337.5	407.8	428.7	470.5
105°	96.6	81.4	66.3	81.4	96.6	100.4	202.5	338.6	406.7	453.5	547.2
107.5°	109.9	95.8	81.7	95.8	109.9	113.5	203.5	323.6	383.6	448.9	579.6
110°	117.6	104.8	92.1	104.8	117.6	120.8	202.0	310.2	364.3	437.3	583.4



TEST NUMBER: P934335

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	126.6	114.4	102.3	114.4	126.6	129.6	202.0	298.5	346.8	421.6	571.0
115°	140.1	128.9	117.7	128.9	140.1	142.9	203.9	285.1	325.7	397.7	541.8
117.5°	153.3	143.1	132.9	143.1	153.3	155.8	207.7	276.8	311.4	376.3	506.2
120°	161.0	151.4	141.8	151.4	161.0	163.4	210.8	274.0	305.6	364.9	483.7
122.5°	169.8	160.2	150.5	160.2	169.8	172.3	215.2	272.5	301.1	354.5	461.6
125°	181.3	172.5	163.8	172.5	181.3	183.6	221.2	271.3	296.3	341.7	432.6
127.5°	192.4	183.5	174.5	183.5	192.4	194.6	227.1	270.6	292.3	331.3	409.2
130°	199.5	189.9	180.3	189.9	199.5	201.9	231.5	271.0	290.7	325.5	394.9
132.5°	205.4	195.9	186.3	195.9	205.4	207.9	235.1	271.3	289.4	320.4	382.6
135°	212.6	203.9	195.2	203.9	212.6	214.8	238.9	271.0	287.0	313.0	365.1
137.5°	221.5	212.8	204.2	212.8	221.5	223.7	244.7	272.7	286.7	308.6	352.7
140°	227.7	219.7	211.7	219.7	227.7	229.7	248.2	272.9	285.3	304.3	342.4
142.5°	232.2	224.9	217.5	224.9	232.2	234.1	251.2	273.9	285.3	302.0	335.4
145°	239.2	232.7	226.4	232.7	239.2	240.8	255.0	274.0	283.4	297.0	324.3
147.5°	247.7	241.5	235.3	241.5	247.7	249.3	260.7	275.8	283.4	294.2	315.7
150°	252.3	246.6	241.0	246.6	252.3	253.7	263.6	276.8	283.4	292.5	310.6
152.5°	255.5	251.2	246.9	251.2	255.5	256.6	265.5	277.4	283.4	291.2	306.7
155°	262.2	259.0	255.8	259.0	262.2	262.9	269.8	278.8	283.4	289.6	301.9
157.5°	268.5	265.5	262.4	265.5	268.5	269.3	274.0	280.2	283.4	288.2	297.8
160°	271.6	269.2	266.9	269.2	271.6	272.2	275.9	280.9	283.4	287.5	295.7
162.5°	274.8	273.0	271.3	273.0	274.8	275.3	278.0	281.6	283.4	286.9	293.8
165°	279.4	277.7	276.1	277.7	279.4	279.8	281.0	282.6	283.4	285.8	290.8
167.5°	282.0	281.3	280.5	281.3	282.0	282.2	283.2	284.6	285.3	287.0	290.2
170°	284.9	284.2	283.4	284.2	284.9	285.1	285.2	285.3	285.3	287.0	290.2
172.5°	285.3	285.1	284.9	285.1	285.3	285.3	285.3	285.3	285.3	286.6	289.1
175°	287.0	287.0	287.0	287.0	287.0	287.0	286.5	285.6	285.3	286.1	287.8
177.5°	287.0	287.0	287.0	287.0	287.0	287.0	286.6	286.0	285.7	286.4	287.7
180°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0



TEST NUMBER: P934335

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1	988.1
2.5°	953.5	950.7	954.4	944.1	954.4	950.7	953.5	960.0	954.4	958.2	961.9
5°	836.7	832.0	817.0	804.9	817.0	832.0	836.7	856.3	865.6	882.5	904.9
7.5°	747.9	744.1	740.4	732.9	740.4	744.1	747.9	753.5	762.8	777.8	794.6
10°	728.2	729.2	734.8	733.8	734.8	729.2	728.2	726.4	723.6	726.4	736.6
12.5°	778.7	787.1	818.0	816.1	818.0	787.1	778.7	741.3	716.1	711.4	713.3
15°	836.7	839.5	846.0	846.9	846.0	839.5	836.7	821.7	746.0	713.3	703.0
17.5°	842.3	843.2	847.9	847.9	847.9	843.2	842.3	835.7	810.5	766.6	708.6
20°	837.6	839.5	848.8	850.7	848.8	839.5	837.6	829.2	815.2	799.3	755.3
22.5°	835.7	839.5	846.9	846.0	846.9	839.5	835.7	822.6	810.5	799.3	781.5
25°	826.4	826.4	827.3	828.2	827.3	826.4	826.4	816.1	791.8	789.0	778.7
27.5°	806.7	808.6	814.2	813.3	814.2	808.6	806.7	803.0	776.8	774.0	766.6
30°	789.0	787.1	782.4	778.7	782.4	787.1	789.0	783.4	757.2	749.7	751.6
32.5°	759.1	754.4	749.7	746.9	749.7	754.4	759.1	757.2	737.6	727.3	729.2
35°	723.6	724.5	723.6	720.8	723.6	724.5	723.6	725.4	713.3	703.9	703.0
37.5°	698.3	700.2	699.3	695.5	699.3	700.2	698.3	696.4	679.6	676.8	678.7
40°	672.1	673.1	672.1	669.3	672.1	673.1	672.1	668.4	645.0	646.0	652.5
42.5°	646.9	646.0	643.2	641.3	643.2	646.0	646.9	641.3	611.4	608.6	620.7
45°	617.9	618.9	613.3	610.5	613.3	618.9	617.9	614.2	583.4	575.9	584.3
47.5°	589.0	589.0	584.3	581.5	584.3	589.0	589.0	584.3	551.6	544.1	548.8
50°	558.1	557.2	550.6	549.7	550.6	557.2	558.1	555.3	520.7	514.2	514.2
52.5°	522.6	522.6	523.5	525.4	523.5	522.6	522.6	523.5	492.7	486.1	484.3
55°	491.7	492.7	499.2	501.1	499.2	492.7	491.7	491.7	463.7	457.2	453.4
57.5°	460.0	460.0	464.6	464.6	464.6	460.0	460.0	458.1	431.0	425.4	423.5
60°	423.5	425.4	429.1	428.2	429.1	425.4	423.5	421.6	398.3	394.5	388.0
62.5°	385.2	387.1	388.0	386.1	388.0	387.1	385.2	379.6	365.6	362.8	354.3
65°	345.0	346.9	347.8	345.9	347.8	346.9	345.0	342.2	331.8	327.1	319.7
67.5°	303.8	302.8	301.9	305.6	301.9	302.8	303.8	300.0	293.5	289.8	279.5
70°	261.7	261.7	260.8	262.7	260.8	261.7	261.7	258.9	255.2	252.4	243.0
72.5°	216.9	215.9	219.7	216.9	219.7	215.9	216.9	215.9	214.0	211.2	201.9
75°	172.9	174.8	172.9	175.7	172.9	174.8	172.9	173.9	172.9	171.1	164.5
77.5°	131.8	133.7	131.8	131.8	131.8	133.7	131.8	132.7	132.7	132.7	127.1
80°	93.5	92.5	92.5	91.6	92.5	92.5	93.5	93.5	94.4	92.5	90.7
82.5°	59.8	58.9	58.9	60.8	58.9	58.9	59.8	60.8	58.9	58.9	58.9
85°	32.7	33.6	31.8	31.8	31.8	33.6	32.7	30.8	32.7	32.7	31.8
87.5°	12.2	11.2	11.2	11.2	11.2	11.2	12.2	13.1	13.1	13.1	14.0
90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6
92.5°	36.6	35.1	29.3	23.5	29.3	35.1	36.6	51.9	72.3	82.4	72.3
95°	124.2	119.8	102.2	84.6	102.2	119.8	124.2	163.1	215.0	241.0	203.5
97.5°	286.9	278.4	244.9	211.3	244.9	278.4	286.9	311.4	344.3	360.6	298.2
100°	402.9	392.9	352.9	312.8	352.9	392.9	402.9	401.1	398.7	397.4	328.1
102.5°	501.8	493.2	459.0	424.8	459.0	493.2	501.8	470.5	428.7	407.8	337.5
105°	617.5	612.9	594.5	576.1	594.5	612.9	617.5	547.2	453.5	406.7	338.6
107.5°	677.6	678.7	683.1	687.6	683.1	678.7	677.6	579.6	448.9	383.6	323.6
110°	693.0	697.8	716.9	736.1	716.9	697.8	693.0	583.4	437.3	364.3	310.2



TEST NUMBER: P934335

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	683.2	690.6	720.0	749.4	720.0	690.6	683.2	571.0	421.6	346.8	298.5
115°	649.8	660.0	700.8	741.7	700.8	660.0	649.8	541.8	397.7	325.7	285.1
117.5°	603.7	615.0	660.4	705.7	660.4	615.0	603.7	506.2	376.3	311.4	276.8
120°	572.8	583.8	627.7	671.8	627.7	583.8	572.8	483.7	364.9	305.6	274.0
122.5°	541.8	552.6	596.1	639.4	596.1	552.6	541.8	461.6	354.5	301.1	272.5
125°	500.7	510.7	550.6	590.6	550.6	510.7	500.7	432.6	341.7	296.3	271.3
127.5°	467.7	476.1	509.9	543.6	509.9	476.1	467.7	409.2	331.3	292.3	270.6
130°	447.0	454.7	486.0	517.1	486.0	454.7	447.0	394.9	325.5	290.7	271.0
132.5°	429.2	436.2	464.1	492.0	464.1	436.2	429.2	382.6	320.4	289.4	271.3
135°	404.2	410.1	434.3	458.3	434.3	410.1	404.2	365.1	313.0	287.0	271.0
137.5°	385.7	390.6	410.2	430.0	410.2	390.6	385.7	352.7	308.6	286.7	272.7
140°	370.9	375.5	393.9	412.3	393.9	375.5	370.9	342.4	304.3	285.3	272.9
142.5°	360.4	364.3	380.2	396.1	380.2	364.3	360.4	335.4	302.0	285.3	273.9
145°	344.8	347.8	359.9	371.8	359.9	347.8	344.8	324.3	297.0	283.4	274.0
147.5°	331.7	334.3	344.2	354.1	344.2	334.3	331.7	315.7	294.2	283.4	275.8
150°	324.2	326.3	334.3	342.4	334.3	326.3	324.2	310.6	292.5	283.4	276.8
152.5°	318.3	319.8	325.8	331.9	325.8	319.8	318.3	306.7	291.2	283.4	277.4
155°	311.2	312.2	316.2	320.2	316.2	312.2	311.2	301.9	289.6	283.4	278.8
157.5°	305.0	305.7	308.5	311.4	308.5	305.7	305.0	297.8	288.2	283.4	280.2
160°	301.9	302.3	304.0	305.6	304.0	302.3	301.9	295.7	287.5	283.4	280.9
162.5°	299.0	299.4	301.0	302.5	301.0	299.4	299.0	293.8	286.9	283.4	281.6
165°	294.5	294.9	296.6	298.3	296.6	294.9	294.5	290.8	285.8	283.4	282.6
167.5°	292.7	292.8	293.5	294.2	293.5	292.8	292.7	290.2	287.0	285.3	284.6
170°	292.7	292.7	292.7	292.7	292.7	292.7	292.7	290.2	287.0	285.3	285.3
172.5°	291.1	290.9	290.3	289.8	290.3	290.9	291.1	289.1	286.6	285.3	285.3
175°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	287.8	286.1	285.3	285.6
177.5°	288.6	288.5	287.8	287.0	287.8	288.5	288.6	287.7	286.4	285.7	286.0
180°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0



TEST NUMBER: P934335

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	988.1	988.1	988.1	988.1	988.1
2.5°	975.9	980.6	983.4	987.1	996.5
5°	938.5	956.3	961.9	975.9	992.8
7.5°	856.3	910.5	925.5	959.1	985.3
10°	776.8	831.0	857.2	936.7	975.9
12.5°	736.6	768.4	786.2	897.4	962.8
15°	711.4	733.8	746.9	845.1	947.9
17.5°	691.8	707.7	717.0	793.7	927.3
20°	679.6	687.1	695.5	756.3	904.0
22.5°	671.2	666.5	673.1	730.1	872.2
25°	665.6	647.8	655.3	709.5	834.8
27.5°	670.3	631.0	633.8	690.8	795.5
30°	671.2	610.5	611.4	671.2	751.6
32.5°	664.7	589.0	589.9	646.9	702.1
35°	648.8	563.7	562.8	618.9	634.8
37.5°	627.3	536.6	536.6	588.0	560.9
40°	601.1	509.5	512.3	547.8	495.5
42.5°	569.3	480.5	484.3	494.6	446.9
45°	534.7	452.5	455.3	417.9	409.5
47.5°	496.4	423.5	424.4	346.9	397.3
50°	450.6	393.6	389.9	297.2	396.4
52.5°	410.4	360.9	349.7	269.2	360.0
55°	371.2	326.2	301.9	247.7	333.8
57.5°	336.6	281.3	258.0	222.5	328.1
60°	304.7	237.4	219.7	195.4	301.0
62.5°	278.5	204.7	201.0	176.7	272.9
65°	250.5	182.3	181.3	160.8	231.8
67.5°	223.4	167.3	166.4	145.8	176.7
70°	194.4	151.4	149.6	129.9	130.9
72.5°	164.5	133.7	131.8	116.8	108.4
75°	134.6	113.1	112.2	101.9	87.9
77.5°	105.6	89.7	91.6	82.3	64.5
80°	75.7	65.4	67.3	58.9	48.6
82.5°	50.5	43.0	44.9	37.4	32.7
85°	28.0	24.3	25.2	19.6	15.0
87.5°	13.1	11.2	11.2	7.5	4.7
90°	8.5	5.4	5.0	3.5	2.0
92.5°	52.3	37.2	33.9	20.8	7.7
95°	128.6	72.4	66.5	42.4	18.5
97.5°	173.2	79.5	74.2	53.1	32.0
100°	189.5	85.5	80.8	61.5	42.3
102.5°	196.9	91.5	87.0	69.2	51.2
105°	202.5	100.4	96.6	81.4	66.3
107.5°	203.5	113.5	109.9	95.8	81.7
110°	202.0	120.8	117.6	104.8	92.1



TEST NUMBER: P934335

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	202.0	129.6	126.6	114.4	102.3
115°	203.9	142.9	140.1	128.9	117.7
117.5°	207.7	155.8	153.3	143.1	132.9
120°	210.8	163.4	161.0	151.4	141.8
122.5°	215.2	172.3	169.8	160.2	150.5
125°	221.2	183.6	181.3	172.5	163.8
127.5°	227.1	194.6	192.4	183.5	174.5
130°	231.5	201.9	199.5	189.9	180.3
132.5°	235.1	207.9	205.4	195.9	186.3
135°	238.9	214.8	212.6	203.9	195.2
137.5°	244.7	223.7	221.5	212.8	204.2
140°	248.2	229.7	227.7	219.7	211.7
142.5°	251.2	234.1	232.2	224.9	217.5
145°	255.0	240.8	239.2	232.7	226.4
147.5°	260.7	249.3	247.7	241.5	235.3
150°	263.6	253.7	252.3	246.6	241.0
152.5°	265.5	256.6	255.5	251.2	246.9
155°	269.8	262.9	262.2	259.0	255.8
157.5°	274.0	269.3	268.5	265.5	262.4
160°	275.9	272.2	271.6	269.2	266.9
162.5°	278.0	275.3	274.8	273.0	271.3
165°	281.0	279.8	279.4	277.7	276.1
167.5°	283.2	282.2	282.0	281.3	280.5
170°	285.2	285.1	284.9	284.2	283.4
172.5°	285.3	285.3	285.3	285.1	284.9
175°	286.5	287.0	287.0	287.0	287.0
177.5°	286.6	287.0	287.0	287.0	287.0
180°	287.0	287.0	287.0	287.0	287.0



TEST NUMBER: P934335
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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	13.19	14.13	14.08	15.04	16.19	15.99	16.93	16.88	17.84	18.99
	3H	13.68	14.52	14.58	15.43	16.61	17.33	18.17	18.23	19.09	20.27
	4H	13.87	14.67	14.79	15.59	16.78	17.77	18.57	18.69	19.49	20.68
	6H	14.00	14.73	14.92	15.66	16.86	18.05	18.79	18.98	19.71	20.92
	8H	14.00	14.70	14.93	15.64	16.84	18.13	18.82	19.06	19.77	20.97
	12H	13.97	14.64	14.91	15.58	16.80	18.16	18.83	19.10	19.77	20.99
4H	2H	14.23	15.02	15.15	15.94	17.13	16.41	17.21	17.33	18.13	19.32
	3H	15.26	15.92	16.19	16.88	18.08	17.91	18.58	18.84	19.53	20.73
	4H	15.54	16.15	16.48	17.09	18.32	18.44	19.04	19.38	19.99	21.22
	6H	15.67	16.19	16.63	17.16	18.39	18.80	19.32	19.75	20.29	21.52
	8H	15.68	16.17	16.63	17.13	18.37	18.90	19.39	19.86	20.36	21.60
	12H	15.65	16.09	16.63	17.07	18.32	18.96	19.40	19.93	20.38	21.63
8H	4H	16.00	16.48	16.95	17.45	18.69	18.57	19.06	19.53	20.02	21.26
	6H	16.26	16.66	17.24	17.67	18.91	19.00	19.40	19.98	20.41	21.65
	8H	16.30	16.66	17.29	17.65	18.91	19.15	19.51	20.14	20.50	21.76
	12H	16.29	16.60	17.29	17.59	18.90	19.25	19.56	20.24	20.55	21.85
12H	4H	16.01	16.44	16.98	17.43	18.67	18.54	18.98	19.51	19.96	21.21
	6H	16.32	16.68	17.31	17.67	18.93	19.00	19.36	19.99	20.35	21.61
	8H	16.39	16.70	17.38	17.69	19.00	19.16	19.47	20.15	20.46	21.77