

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: P935135

Luminaire Tested: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935135
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-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: -

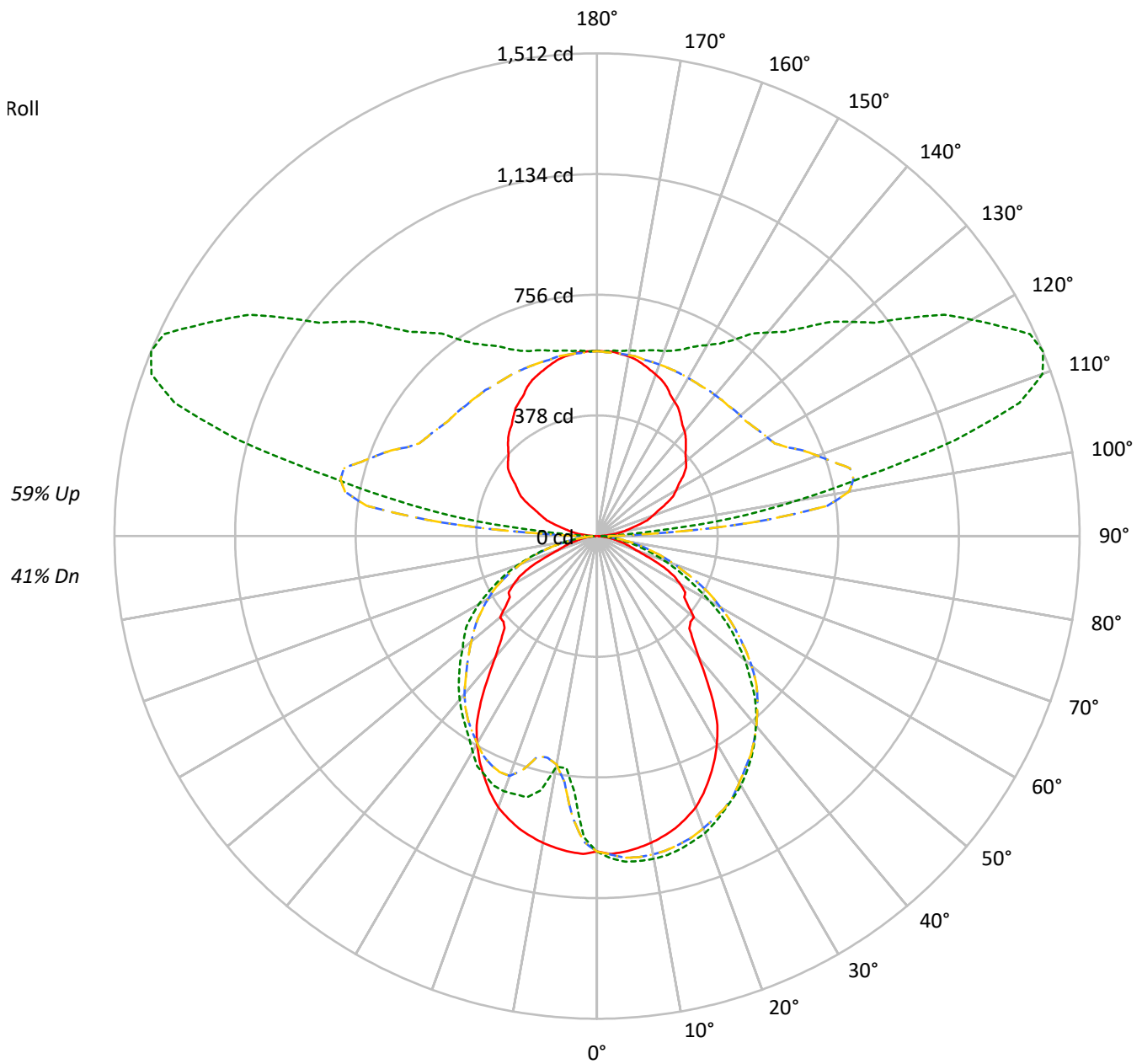
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6319.5 lumens
Efficiency: N/A
Efficacy: 128.4 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): 49.2
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



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41	41	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34	34	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29	29	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24	24	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21	21	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	18	18	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16	16	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14	14	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	13	13	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	11	11	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10	10	10

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	1.4
10°-20°	253.2	4.0
20°-30°	391.5	6.2
30°-40°	467.3	7.4
40°-50°	470.1	7.4
50°-60°	409.0	6.5
60°-70°	290.0	4.6
70°-80°	153.4	2.4
80°-90°	40.4	0.6
90°-100°	282.4	4.5
100°-110°	742.4	11.7
110°-120°	769.8	12.2
120°-130°	617.4	9.8
130°-140°	484.5	7.7
140°-150°	371.9	5.9
150°-160°	267.8	4.2
160°-170°	163.9	2.6
170°-180°	55.4	0.9
0°-30°	733.9	11.6
0°-40°	1201.2	19.0
0°-60°	2080.4	32.9
0°-90°	2564.2	40.6
90°-120°	1794.5	28.4
90°-150°	3268.3	51.7
90°-180°	3755.0	59.4
0°-180°	6319.5	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°	4	15	4	15	4	4
95°	37	171	37	171	37	41
105°	134	1162	134	1162	134	142
115°	238	1497	238	1497	238	235
125°	330	1192	330	1192	330	293
135°	394	925	394	925	394	305
145°	457	750	457	750	457	286
155°	516	646	516	646	516	237
165°	557	602	557	602	557	157
175°	579	583	579	583	579	55
180°	579	579	579	579	579	



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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°	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.3	19.7	14.8	14.8
92.5°	15.5	42.0	68.4	75.1	105.5	146.1	166.4	145.8	104.7	73.8	70.9
95°	37.3	85.7	134.1	146.2	259.6	410.7	486.3	434.0	329.3	250.8	241.9
97.5°	64.5	107.2	149.9	160.6	349.7	601.8	727.8	694.7	628.5	578.9	561.9
100°	85.5	124.2	162.9	172.6	382.5	662.2	802.1	804.5	809.3	812.9	792.7
102.5°	103.4	139.6	175.6	184.7	397.5	681.2	823.1	865.3	949.6	1012.8	995.5
105°	133.8	164.3	194.9	202.6	408.7	683.4	820.8	915.3	1104.3	1246.1	1236.8
107.5°	164.9	193.4	221.9	229.0	410.7	652.9	774.0	905.9	1169.6	1367.4	1369.6
110°	185.8	211.6	237.3	243.8	407.5	626.0	735.1	882.5	1177.4	1398.4	1408.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	206.5	231.0	255.5	261.6	407.7	602.4	699.8	850.7	1152.3	1378.6	1393.5
115°	237.5	260.1	282.7	288.5	411.5	575.5	657.5	802.8	1093.4	1311.4	1332.0
117.5°	268.3	288.8	309.4	314.5	419.1	558.6	628.3	759.4	1021.7	1218.5	1241.3
120°	286.1	305.5	324.8	329.7	425.3	552.9	616.6	736.5	976.1	1155.9	1178.1
122.5°	303.7	323.2	342.8	347.6	434.3	549.9	607.7	715.5	931.3	1093.2	1115.1
125°	330.5	348.3	366.0	370.5	446.3	547.4	597.9	689.6	872.9	1010.4	1030.6
127.5°	352.2	370.1	388.2	392.7	458.4	546.0	589.8	668.5	825.9	944.0	961.0
130°	363.9	383.2	402.6	407.4	467.2	546.9	586.7	656.8	796.9	902.0	917.7
132.5°	375.9	395.3	414.6	419.5	474.3	547.4	583.9	646.6	772.1	866.2	880.3
135°	393.9	411.5	429.1	433.5	482.1	546.9	579.3	631.9	736.8	815.6	827.8
137.5°	412.1	429.6	447.0	451.4	493.7	550.3	578.5	622.9	711.7	778.3	788.2
140°	427.3	443.3	459.4	463.4	500.9	550.8	575.8	614.1	690.8	748.4	757.7
142.5°	438.9	453.8	468.7	472.4	506.9	552.8	575.8	609.4	676.8	727.4	735.4
145°	456.8	469.8	482.7	486.0	514.6	552.9	571.9	599.5	654.6	695.9	702.0
147.5°	474.7	487.4	499.9	503.1	526.1	556.6	571.9	593.6	637.0	669.5	674.6
150°	486.3	497.7	509.1	512.0	532.0	558.7	571.9	590.3	626.8	654.3	658.3
152.5°	498.4	507.0	515.7	517.8	535.9	559.9	571.9	587.6	618.8	642.2	645.3
155°	516.3	522.7	529.1	530.7	544.5	562.8	571.9	584.4	609.2	627.8	629.9
157.5°	529.5	535.8	541.9	543.5	553.0	565.6	571.9	581.6	600.9	615.4	616.8
160°	538.5	543.3	548.1	549.3	556.9	566.9	571.9	580.3	596.8	609.2	610.1
162.5°	547.4	551.0	554.7	555.6	561.0	568.3	571.9	579.0	592.9	603.4	604.1
165°	557.1	560.4	563.6	564.5	567.0	570.3	571.9	577.0	587.0	594.5	595.3
167.5°	566.1	567.6	569.2	569.6	571.7	574.4	575.8	579.1	585.6	590.5	590.9
170°	571.9	573.4	575.0	575.4	575.5	575.7	575.8	579.1	585.6	590.5	590.5
172.5°	575.0	575.4	575.7	575.8	575.8	575.8	575.8	578.4	583.5	587.5	587.2
175°	579.3	579.3	579.3	579.3	578.1	576.5	575.8	577.5	580.7	583.2	583.2
177.5°	579.3	579.3	579.3	579.3	578.4	577.2	576.5	577.8	580.5	582.4	582.0
180°	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3



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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°	14.8	14.8	14.8	14.8	14.8	19.7	26.3	29.5	25.4	17.1	10.8
92.5°	59.2	47.4	59.2	70.9	73.8	104.7	145.8	166.4	146.1	105.5	75.1
95°	206.3	170.7	206.3	241.9	250.8	329.3	434.0	486.3	410.7	259.6	146.2
97.5°	494.2	426.5	494.2	561.9	578.9	628.5	694.7	727.8	601.8	349.7	160.6
100°	712.1	631.4	712.1	792.7	812.9	809.3	804.5	802.1	662.2	382.5	172.6
102.5°	926.4	857.3	926.4	995.5	1012.8	949.6	865.3	823.1	681.2	397.5	184.7
105°	1199.6	1162.5	1199.6	1236.8	1246.1	1104.3	915.3	820.8	683.4	408.7	202.6
107.5°	1378.6	1387.6	1378.6	1369.6	1367.4	1169.6	905.9	774.0	652.9	410.7	229.0
110°	1446.8	1485.5	1446.8	1408.1	1398.4	1177.4	882.5	735.1	626.0	407.5	243.8



TEST NUMBER: P935135

CATALOG NUMBER: SQ4-FA-100U-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°	1452.9	1512.4	1452.9	1393.5	1378.6	1152.3	850.7	699.8	602.4	407.7	261.6
115°	1414.4	1496.8	1414.4	1332.0	1311.4	1093.4	802.8	657.5	575.5	411.5	288.5
117.5°	1332.7	1424.1	1332.7	1241.3	1218.5	1021.7	759.4	628.3	558.6	419.1	314.5
120°	1266.9	1355.7	1266.9	1178.1	1155.9	976.1	736.5	616.6	552.9	425.3	329.7
122.5°	1202.8	1290.4	1202.8	1115.1	1093.2	931.3	715.5	607.7	549.9	434.3	347.6
125°	1111.3	1192.0	1111.3	1030.6	1010.4	872.9	689.6	597.9	547.4	446.3	370.5
127.5°	1029.1	1097.2	1029.1	961.0	944.0	825.9	668.5	589.8	546.0	458.4	392.7
130°	980.6	1043.5	980.6	917.7	902.0	796.9	656.8	586.7	546.9	467.2	407.4
132.5°	936.6	992.9	936.6	880.3	866.2	772.1	646.6	583.9	547.4	474.3	419.5
135°	876.3	924.9	876.3	827.8	815.6	736.8	631.9	579.3	546.9	482.1	433.5
137.5°	828.1	867.8	828.1	788.2	778.3	711.7	622.9	578.5	550.3	493.7	451.4
140°	794.9	832.0	794.9	757.7	748.4	690.8	614.1	575.8	550.8	500.9	463.4
142.5°	767.4	799.4	767.4	735.4	727.4	676.8	609.4	575.8	552.8	506.9	472.4
145°	726.2	750.4	726.2	702.0	695.9	654.6	599.5	571.9	552.9	514.6	486.0
147.5°	694.6	714.6	694.6	674.6	669.5	637.0	593.6	571.9	556.6	526.1	503.1
150°	674.6	690.8	674.6	658.3	654.3	626.8	590.3	571.9	558.7	532.0	512.0
152.5°	657.6	669.9	657.6	645.3	642.2	618.8	587.6	571.9	559.9	535.9	517.8
155°	638.0	646.2	638.0	629.9	627.8	609.2	584.4	571.9	562.8	544.5	530.7
157.5°	622.6	628.3	622.6	616.8	615.4	600.9	581.6	571.9	565.6	553.0	543.5
160°	613.4	616.6	613.4	610.1	609.2	596.8	580.3	571.9	566.9	556.9	549.3
162.5°	607.3	610.4	607.3	604.1	603.4	592.9	579.0	571.9	568.3	561.0	555.6
165°	598.6	601.9	598.6	595.3	594.5	587.0	577.0	571.9	570.3	567.0	564.5
167.5°	592.2	593.6	592.2	590.9	590.5	585.6	579.1	575.8	574.4	571.7	569.6
170°	590.5	590.5	590.5	590.5	590.5	585.6	579.1	575.8	575.7	575.5	575.4
172.5°	586.0	584.8	586.0	587.2	587.5	583.5	578.4	575.8	575.8	575.8	575.8
175°	583.2	583.2	583.2	583.2	583.2	580.7	577.5	575.8	576.5	578.1	579.3
177.5°	580.7	579.3	580.7	582.0	582.4	580.5	577.8	576.5	577.2	578.4	579.3
180°	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3



TEST NUMBER: P935135

CATALOG NUMBER: SQ4-FA-100U-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°	10.1	7.0	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.3	19.7
92.5°	68.4	42.0	15.5	42.0	68.4	75.1	105.5	146.1	166.4	145.8	104.7
95°	134.1	85.7	37.3	85.7	134.1	146.2	259.6	410.7	486.3	434.0	329.3
97.5°	149.9	107.2	64.5	107.2	149.9	160.6	349.7	601.8	727.8	694.7	628.5
100°	162.9	124.2	85.5	124.2	162.9	172.6	382.5	662.2	802.1	804.5	809.3
102.5°	175.6	139.6	103.4	139.6	175.6	184.7	397.5	681.2	823.1	865.3	949.6
105°	194.9	164.3	133.8	164.3	194.9	202.6	408.7	683.4	820.8	915.3	1104.3
107.5°	221.9	193.4	164.9	193.4	221.9	229.0	410.7	652.9	774.0	905.9	1169.6
110°	237.3	211.6	185.8	211.6	237.3	243.8	407.5	626.0	735.1	882.5	1177.4



TEST NUMBER: P935135

CATALOG NUMBER: SQ4-FA-100U-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°	255.5	231.0	206.5	231.0	255.5	261.6	407.7	602.4	699.8	850.7	1152.3
115°	282.7	260.1	237.5	260.1	282.7	288.5	411.5	575.5	657.5	802.8	1093.4
117.5°	309.4	288.8	268.3	288.8	309.4	314.5	419.1	558.6	628.3	759.4	1021.7
120°	324.8	305.5	286.1	305.5	324.8	329.7	425.3	552.9	616.6	736.5	976.1
122.5°	342.8	323.2	303.7	323.2	342.8	347.6	434.3	549.9	607.7	715.5	931.3
125°	366.0	348.3	330.5	348.3	366.0	370.5	446.3	547.4	597.9	689.6	872.9
127.5°	388.2	370.1	352.2	370.1	388.2	392.7	458.4	546.0	589.8	668.5	825.9
130°	402.6	383.2	363.9	383.2	402.6	407.4	467.2	546.9	586.7	656.8	796.9
132.5°	414.6	395.3	375.9	395.3	414.6	419.5	474.3	547.4	583.9	646.6	772.1
135°	429.1	411.5	393.9	411.5	429.1	433.5	482.1	546.9	579.3	631.9	736.8
137.5°	447.0	429.6	412.1	429.6	447.0	451.4	493.7	550.3	578.5	622.9	711.7
140°	459.4	443.3	427.3	443.3	459.4	463.4	500.9	550.8	575.8	614.1	690.8
142.5°	468.7	453.8	438.9	453.8	468.7	472.4	506.9	552.8	575.8	609.4	676.8
145°	482.7	469.8	456.8	469.8	482.7	486.0	514.6	552.9	571.9	599.5	654.6
147.5°	499.9	487.4	474.7	487.4	499.9	503.1	526.1	556.6	571.9	593.6	637.0
150°	509.1	497.7	486.3	497.7	509.1	512.0	532.0	558.7	571.9	590.3	626.8
152.5°	515.7	507.0	498.4	507.0	515.7	517.8	535.9	559.9	571.9	587.6	618.8
155°	529.1	522.7	516.3	522.7	529.1	530.7	544.5	562.8	571.9	584.4	609.2
157.5°	541.9	535.8	529.5	535.8	541.9	543.5	553.0	565.6	571.9	581.6	600.9
160°	548.1	543.3	538.5	543.3	548.1	549.3	556.9	566.9	571.9	580.3	596.8
162.5°	554.7	551.0	547.4	551.0	554.7	555.6	561.0	568.3	571.9	579.0	592.9
165°	563.6	560.4	557.1	560.4	563.6	564.5	567.0	570.3	571.9	577.0	587.0
167.5°	569.2	567.6	566.1	567.6	569.2	569.6	571.7	574.4	575.8	579.1	585.6
170°	575.0	573.4	571.9	573.4	575.0	575.4	575.5	575.7	575.8	579.1	585.6
172.5°	575.7	575.4	575.0	575.4	575.7	575.8	575.8	575.8	575.8	578.4	583.5
175°	579.3	579.3	579.3	579.3	579.3	579.3	578.1	576.5	575.8	577.5	580.7
177.5°	579.3	579.3	579.3	579.3	579.3	579.3	578.4	577.2	576.5	577.8	580.5
180°	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3



TEST NUMBER: P935135

CATALOG NUMBER: SQ4-FA-100U-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°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	19.7	26.3	29.5	25.4
92.5°	73.8	70.9	59.2	47.4	59.2	70.9	73.8	104.7	145.8	166.4	146.1
95°	250.8	241.9	206.3	170.7	206.3	241.9	250.8	329.3	434.0	486.3	410.7
97.5°	578.9	561.9	494.2	426.5	494.2	561.9	578.9	628.5	694.7	727.8	601.8
100°	812.9	792.7	712.1	631.4	712.1	792.7	812.9	809.3	804.5	802.1	662.2
102.5°	1012.8	995.5	926.4	857.3	926.4	995.5	1012.8	949.6	865.3	823.1	681.2
105°	1246.1	1236.8	1199.6	1162.5	1199.6	1236.8	1246.1	1104.3	915.3	820.8	683.4
107.5°	1367.4	1369.6	1378.6	1387.6	1378.6	1369.6	1367.4	1169.6	905.9	774.0	652.9
110°	1398.4	1408.1	1446.8	1485.5	1446.8	1408.1	1398.4	1177.4	882.5	735.1	626.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1378.6	1393.5	1452.9	1512.4	1452.9	1393.5	1378.6	1152.3	850.7	699.8	602.4
115°	1311.4	1332.0	1414.4	1496.8	1414.4	1332.0	1311.4	1093.4	802.8	657.5	575.5
117.5°	1218.5	1241.3	1332.7	1424.1	1332.7	1241.3	1218.5	1021.7	759.4	628.3	558.6
120°	1155.9	1178.1	1266.9	1355.7	1266.9	1178.1	1155.9	976.1	736.5	616.6	552.9
122.5°	1093.2	1115.1	1202.8	1290.4	1202.8	1115.1	1093.2	931.3	715.5	607.7	549.9
125°	1010.4	1030.6	1111.3	1192.0	1111.3	1030.6	1010.4	872.9	689.6	597.9	547.4
127.5°	944.0	961.0	1029.1	1097.2	1029.1	961.0	944.0	825.9	668.5	589.8	546.0
130°	902.0	917.7	980.6	1043.5	980.6	917.7	902.0	796.9	656.8	586.7	546.9
132.5°	866.2	880.3	936.6	992.9	936.6	880.3	866.2	772.1	646.6	583.9	547.4
135°	815.6	827.8	876.3	924.9	876.3	827.8	815.6	736.8	631.9	579.3	546.9
137.5°	778.3	788.2	828.1	867.8	828.1	788.2	778.3	711.7	622.9	578.5	550.3
140°	748.4	757.7	794.9	832.0	794.9	757.7	748.4	690.8	614.1	575.8	550.8
142.5°	727.4	735.4	767.4	799.4	767.4	735.4	727.4	676.8	609.4	575.8	552.8
145°	695.9	702.0	726.2	750.4	726.2	702.0	695.9	654.6	599.5	571.9	552.9
147.5°	669.5	674.6	694.6	714.6	694.6	674.6	669.5	637.0	593.6	571.9	556.6
150°	654.3	658.3	674.6	690.8	674.6	658.3	654.3	626.8	590.3	571.9	558.7
152.5°	642.2	645.3	657.6	669.9	657.6	645.3	642.2	618.8	587.6	571.9	559.9
155°	627.8	629.9	638.0	646.2	638.0	629.9	627.8	609.2	584.4	571.9	562.8
157.5°	615.4	616.8	622.6	628.3	622.6	616.8	615.4	600.9	581.6	571.9	565.6
160°	609.2	610.1	613.4	616.6	613.4	610.1	609.2	596.8	580.3	571.9	566.9
162.5°	603.4	604.1	607.3	610.4	607.3	604.1	603.4	592.9	579.0	571.9	568.3
165°	594.5	595.3	598.6	601.9	598.6	595.3	594.5	587.0	577.0	571.9	570.3
167.5°	590.5	590.9	592.2	593.6	592.2	590.9	590.5	585.6	579.1	575.8	574.4
170°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	585.6	579.1	575.8	575.7
172.5°	587.5	587.2	586.0	584.8	586.0	587.2	587.5	583.5	578.4	575.8	575.8
175°	583.2	583.2	583.2	583.2	583.2	583.2	583.2	580.7	577.5	575.8	576.5
177.5°	582.4	582.0	580.7	579.3	580.7	582.0	582.4	580.5	577.8	576.5	577.2
180°	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3



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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°	17.1	10.8	10.1	7.0	3.9
92.5°	105.5	75.1	68.4	42.0	15.5
95°	259.6	146.2	134.1	85.7	37.3
97.5°	349.7	160.6	149.9	107.2	64.5
100°	382.5	172.6	162.9	124.2	85.5
102.5°	397.5	184.7	175.6	139.6	103.4
105°	408.7	202.6	194.9	164.3	133.8
107.5°	410.7	229.0	221.9	193.4	164.9
110°	407.5	243.8	237.3	211.6	185.8



TEST NUMBER: P935135

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	407.7	261.6	255.5	231.0	206.5
115°	411.5	288.5	282.7	260.1	237.5
117.5°	419.1	314.5	309.4	288.8	268.3
120°	425.3	329.7	324.8	305.5	286.1
122.5°	434.3	347.6	342.8	323.2	303.7
125°	446.3	370.5	366.0	348.3	330.5
127.5°	458.4	392.7	388.2	370.1	352.2
130°	467.2	407.4	402.6	383.2	363.9
132.5°	474.3	419.5	414.6	395.3	375.9
135°	482.1	433.5	429.1	411.5	393.9
137.5°	493.7	451.4	447.0	429.6	412.1
140°	500.9	463.4	459.4	443.3	427.3
142.5°	506.9	472.4	468.7	453.8	438.9
145°	514.6	486.0	482.7	469.8	456.8
147.5°	526.1	503.1	499.9	487.4	474.7
150°	532.0	512.0	509.1	497.7	486.3
152.5°	535.9	517.8	515.7	507.0	498.4
155°	544.5	530.7	529.1	522.7	516.3
157.5°	553.0	543.5	541.9	535.8	529.5
160°	556.9	549.3	548.1	543.3	538.5
162.5°	561.0	555.6	554.7	551.0	547.4
165°	567.0	564.5	563.6	560.4	557.1
167.5°	571.7	569.6	569.2	567.6	566.1
170°	575.5	575.4	575.0	573.4	571.9
172.5°	575.8	575.8	575.7	575.4	575.0
175°	578.1	579.3	579.3	579.3	579.3
177.5°	578.4	579.3	579.3	579.3	579.3
180°	579.3	579.3	579.3	579.3	579.3



TEST NUMBER: P935135
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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	11.55	12.34	12.59	13.38	14.78	14.35	15.13	15.38	16.17	17.57
	3H	12.02	12.73	13.07	13.78	15.19	15.68	16.38	16.72	17.43	18.85
	4H	12.21	12.88	13.27	13.93	15.35	16.11	16.78	17.17	17.83	19.26
	6H	12.33	12.94	13.39	13.99	15.43	16.39	17.00	17.45	18.05	19.49
	8H	12.33	12.91	13.40	13.98	15.41	16.45	17.04	17.53	18.11	19.54
	12H	12.29	12.85	13.37	13.91	15.37	16.49	17.04	17.56	18.10	19.56
4H	2H	12.57	13.23	13.63	14.29	15.71	14.75	15.42	15.81	16.47	17.89
	3H	13.59	14.14	14.66	15.22	16.66	16.24	16.79	17.31	17.87	19.31
	4H	13.86	14.37	14.94	15.44	16.90	16.76	17.27	17.83	18.34	19.80
	6H	13.98	14.42	15.07	15.51	16.97	17.11	17.55	18.20	18.64	20.09
	8H	13.99	14.39	15.07	15.48	16.95	17.21	17.62	18.30	18.70	20.17
	12H	13.95	14.32	15.05	15.42	16.89	17.26	17.63	18.36	18.73	20.20
8H	4H	14.30	14.71	15.39	15.80	17.27	16.88	17.28	17.96	18.37	19.84
	6H	14.56	14.90	15.67	16.02	17.49	17.30	17.64	18.41	18.77	20.23
	8H	14.60	14.90	15.72	16.01	17.49	17.45	17.74	18.56	18.85	20.34
	12H	14.58	14.84	15.70	15.95	17.47	17.54	17.80	18.66	18.90	20.43
12H	4H	14.30	14.67	15.41	15.77	17.25	16.84	17.21	17.94	18.31	19.78
	6H	14.62	14.91	15.73	16.02	17.51	17.30	17.59	18.41	18.70	20.19
	8H	14.68	14.94	15.80	16.05	17.57	17.45	17.71	18.57	18.82	20.34