

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: P934836

Luminaire Tested: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934836
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

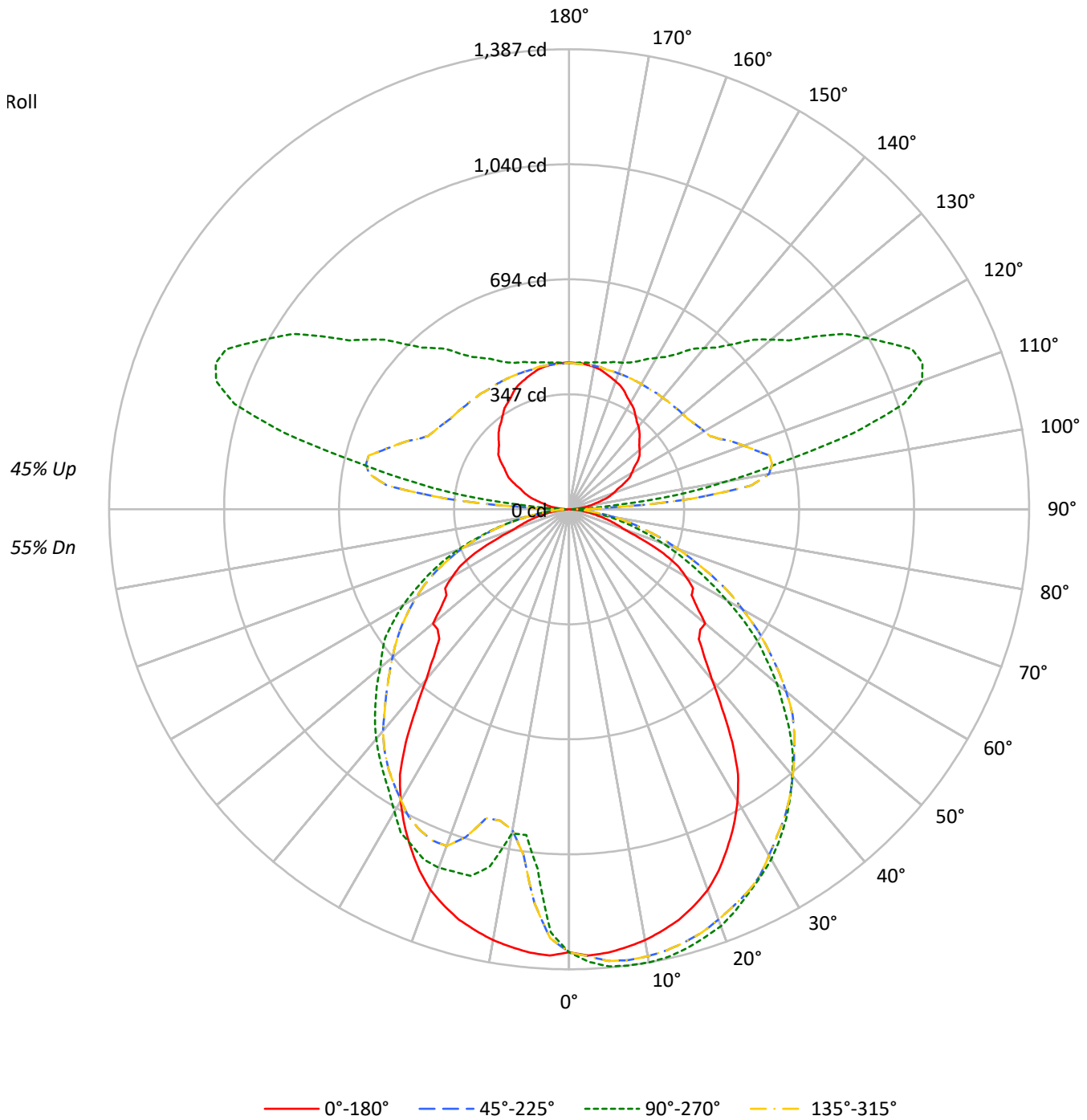
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6327.1 lumens
Efficiency: N/A
Efficacy: 123.6 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): 51.2
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





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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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12391	12391	12391	12391
5°	12470	12509	12470	9836
10°	12374	12321	12374	8809
15°	12224	12054	12224	10066
20°	11954	11738	11954	10086
25°	11418	11277	11418	9873
30°	10729	10894	10729	9404
35°	9550	10409	9550	8888
40°	7944	9839	7944	8499
45°	7084	9172	7084	8050
50°	7510	8376	7510	7601
55°	7045	7518	7045	7341
60°	7236	6385	7236	6723
65°	6529	5277	6529	5901
70°	4491	4207	4491	4946
75°	3896	3109	3896	3723
80°	3075	2056	3075	2238
85°	1673	1088	1673	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10878 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.9
10°-20°	342.2	5.4
20°-30°	529.1	8.4
30°-40°	631.6	10.0
40°-50°	635.3	10.0
50°-60°	552.8	8.7
60°-70°	391.9	6.2
70°-80°	207.3	3.3
80°-90°	53.3	0.8
90°-100°	215.3	3.4
100°-110°	566.0	8.9
110°-120°	586.9	9.3
120°-130°	470.8	7.4
130°-140°	369.4	5.8
140°-150°	283.5	4.5
150°-160°	204.2	3.2
160°-170°	124.9	2.0
170°-180°	42.2	0.7
0°-30°	991.8	15.7
0°-40°	1623.4	25.7
0°-60°	2811.5	44.4
0°-90°	3464.1	54.7
90°-120°	1368.2	21.6
90°-150°	2491.8	39.4
90°-180°	2863.0	45.2
0°-180°	6327.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1335	1335	1335	1335	1335	
5°	1342	1383	1342	1088	1342	127
15°	1281	1371	1281	1145	1281	360
25°	1128	1278	1128	1119	1128	518
35°	858	1141	858	974	858	531
45°	553	940	553	825	553	443
55°	451	694	451	677	451	414
65°	313	418	313	468	313	299
75°	119	198	119	238	119	125
85°	20	50	20	43	20	27
90°	3	11	3	11	3	3
95°	28	130	28	130	28	32
105°	102	886	102	886	102	108
115°	181	1141	181	1141	181	179
125°	252	909	252	909	252	224
135°	300	705	300	705	300	232
145°	348	572	348	572	348	218
155°	394	493	394	493	394	181
165°	425	459	425	459	425	120
175°	442	445	442	445	442	42
180°	442	442	442	442	442	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1346.7	1346.7	1354.4	1356.8	1356.8	1353.0	1349.3	1353.0	1364.4	1368.2	1367.0
5°	1341.7	1351.8	1365.7	1368.2	1370.7	1369.5	1367.0	1369.5	1382.1	1384.7	1385.9
7.5°	1331.6	1350.5	1368.2	1372.0	1375.8	1372.0	1370.7	1373.3	1385.9	1388.4	1388.4
10°	1319.0	1345.5	1365.7	1368.2	1372.0	1368.2	1368.2	1373.3	1385.9	1388.4	1389.7
12.5°	1301.3	1337.9	1356.8	1359.4	1364.4	1363.1	1361.9	1367.0	1379.6	1382.1	1382.1
15°	1281.0	1324.0	1341.7	1344.2	1353.0	1350.5	1350.5	1355.6	1369.5	1373.3	1372.0
17.5°	1253.3	1306.4	1326.5	1330.4	1336.7	1335.3	1336.7	1341.7	1354.4	1356.8	1358.1
20°	1221.6	1282.4	1306.4	1310.1	1316.4	1316.4	1316.4	1322.7	1335.3	1340.4	1340.4
22.5°	1178.7	1257.0	1282.4	1284.8	1292.4	1292.4	1295.0	1303.8	1315.1	1316.4	1316.4
25°	1128.2	1229.3	1250.7	1258.3	1265.9	1269.6	1273.5	1278.5	1282.4	1281.0	1282.4
27.5°	1075.1	1193.9	1221.6	1226.7	1236.8	1240.7	1245.6	1247.0	1248.2	1251.9	1249.5
30°	1015.8	1144.6	1186.3	1191.3	1207.8	1210.3	1205.3	1207.8	1214.1	1216.7	1219.1
32.5°	948.7	1071.3	1149.6	1161.0	1176.2	1168.6	1167.3	1171.1	1181.3	1181.3	1183.8
35°	857.8	1014.5	1115.6	1125.6	1137.0	1128.2	1133.2	1134.5	1140.8	1144.6	1143.3
37.5°	758.0	965.2	1080.2	1087.8	1096.6	1085.2	1092.8	1096.6	1101.6	1099.1	1099.1
40°	669.6	888.1	1038.5	1043.5	1051.1	1042.3	1049.8	1052.4	1054.9	1052.4	1051.1
42.5°	603.9	803.5	994.2	1000.6	995.5	1001.8	1004.4	1009.5	1005.6	1000.6	1000.6
45°	553.3	780.7	946.2	953.8	946.2	956.4	960.1	960.1	948.7	946.2	945.0
47.5°	536.9	735.3	898.2	898.2	894.4	907.0	913.5	904.6	893.2	889.5	889.5
50°	535.7	684.7	832.6	827.5	845.2	860.4	854.1	845.2	836.4	822.4	822.4
52.5°	486.4	622.9	747.9	766.9	794.7	803.5	793.4	784.6	769.4	763.0	758.0
55°	451.0	558.4	670.9	708.7	737.8	749.2	730.2	721.4	698.6	694.9	692.3
57.5°	443.5	464.9	600.1	648.1	683.5	682.2	670.9	654.4	635.5	631.7	630.4
60°	406.8	336.0	524.3	581.2	617.8	614.0	603.9	588.7	571.0	568.6	566.0
62.5°	368.9	243.8	438.4	502.9	554.6	553.3	544.6	521.8	509.2	502.9	497.8
65°	313.3	204.6	312.0	418.1	492.7	495.2	476.3	459.8	446.0	438.4	437.1
67.5°	238.8	166.8	210.9	348.7	433.3	430.8	406.8	399.2	381.5	377.7	370.1
70°	176.9	111.2	146.6	283.0	375.2	368.9	350.0	341.1	324.7	315.8	310.8
72.5°	146.6	89.7	107.4	219.8	315.8	308.3	291.8	281.7	267.8	260.3	255.2
75°	118.8	94.8	82.1	162.9	256.5	251.4	236.3	226.1	214.8	204.6	206.0
77.5°	87.2	88.4	65.7	120.0	203.4	195.8	186.9	174.3	169.2	159.2	159.2
80°	65.7	69.5	49.2	82.1	146.6	146.6	138.9	130.1	121.2	116.3	116.3
82.5°	44.2	44.2	36.6	51.8	99.8	96.0	90.9	88.4	83.4	80.9	80.9
85°	20.2	25.2	22.8	31.6	54.3	56.9	56.9	54.3	53.1	50.5	51.8
87.5°	6.3	11.4	13.9	17.7	27.8	29.1	30.3	30.3	30.3	31.6	31.6
90°	3.0	5.4	7.7	8.3	13.1	19.4	22.6	20.1	15.0	11.3	11.3
92.5°	11.9	32.0	52.1	57.2	80.4	111.4	126.9	111.2	79.8	56.3	54.1
95°	28.5	65.4	102.3	111.5	197.9	313.2	370.8	330.8	251.0	191.1	184.4
97.5°	49.2	81.8	114.3	122.4	266.6	458.8	554.9	529.6	479.2	441.4	428.5
100°	65.2	94.7	124.2	131.6	291.5	504.9	611.5	613.3	617.0	619.8	604.4
102.5°	78.9	106.4	133.9	140.8	303.0	519.4	627.5	659.7	723.9	772.1	758.9
105°	101.9	125.3	148.6	154.4	311.5	521.0	625.7	697.8	841.9	950.0	942.9
107.5°	125.6	147.4	169.2	174.6	313.2	497.8	590.2	690.7	891.6	1042.4	1044.2
110°	141.7	161.3	181.0	185.9	310.8	477.2	560.5	672.9	897.6	1066.2	1073.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.4	176.1	194.8	199.5	310.9	459.4	533.6	648.6	878.6	1051.0	1062.4
115°	181.1	198.3	215.6	219.9	313.7	438.7	501.2	612.1	833.6	999.8	1015.5
117.5°	204.5	220.2	235.9	239.8	319.6	425.8	479.0	579.0	778.9	928.9	946.3
120°	218.2	232.9	247.7	251.4	324.2	421.5	470.1	561.5	744.2	881.2	898.2
122.5°	231.5	246.4	261.2	265.0	331.0	419.2	463.3	545.5	710.1	833.5	850.2
125°	252.0	265.5	279.1	282.5	340.3	417.4	455.9	525.8	665.6	770.4	785.8
127.5°	268.6	282.3	295.9	299.4	349.5	416.3	449.7	509.7	629.7	719.7	732.7
130°	277.5	292.2	306.9	310.7	356.2	416.9	447.3	500.8	607.6	687.7	699.6
132.5°	286.7	301.4	316.1	319.8	361.6	417.4	445.2	493.0	588.7	660.4	671.2
135°	300.2	313.6	327.1	330.5	367.6	417.0	441.7	481.7	561.9	621.9	631.2
137.5°	314.2	327.5	340.8	344.1	376.5	419.6	441.1	474.9	542.6	593.4	601.0
140°	325.8	338.0	350.3	353.3	381.9	420.0	439.0	468.2	526.7	570.6	577.6
142.5°	334.7	346.0	357.2	360.1	386.4	421.5	439.0	464.7	516.1	554.6	560.7
145°	348.2	358.2	368.0	370.5	392.3	421.5	436.0	457.1	499.0	530.6	535.2
147.5°	361.9	371.5	381.1	383.5	401.0	424.4	436.0	452.6	485.7	510.4	514.2
150°	370.8	379.5	388.2	390.4	405.6	425.9	436.0	450.0	477.9	498.8	501.9
152.5°	380.0	386.6	393.2	394.8	408.6	426.8	436.0	448.0	471.8	489.7	492.0
155°	393.7	398.5	403.3	404.6	415.1	429.0	436.0	445.5	464.4	478.7	480.2
157.5°	403.7	408.5	413.3	414.4	421.6	431.2	436.0	443.4	458.1	469.2	470.3
160°	410.5	414.2	417.9	418.8	424.5	432.2	436.0	442.3	455.1	464.5	465.1
162.5°	417.4	420.2	422.9	423.6	427.7	433.3	436.0	441.4	452.0	460.0	460.6
165°	424.7	427.2	429.7	430.4	432.3	434.8	436.0	439.8	447.5	453.2	453.9
167.5°	431.5	432.7	433.9	434.2	435.8	437.9	439.0	441.5	446.5	450.3	450.6
170°	436.0	437.2	438.4	438.7	438.8	438.9	439.0	441.5	446.5	450.3	450.3
172.5°	438.4	438.7	438.9	439.0	439.0	439.0	439.0	441.0	444.9	447.9	447.7
175°	441.7	441.7	441.7	441.7	440.8	439.6	439.0	440.2	442.7	444.6	444.6
177.5°	441.7	441.7	441.7	441.7	441.0	440.0	439.6	440.5	442.5	444.1	443.8
180°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1369.5	1365.7	1369.5	1367.0	1368.2	1364.4	1353.0	1349.3	1353.0	1356.8	1356.8
5°	1385.9	1383.4	1385.9	1385.9	1384.7	1382.1	1369.5	1367.0	1369.5	1370.7	1368.2
7.5°	1391.0	1387.1	1391.0	1388.4	1388.4	1385.9	1373.3	1370.7	1372.0	1375.8	1372.0
10°	1391.0	1387.1	1391.0	1389.7	1388.4	1385.9	1373.3	1368.2	1368.2	1372.0	1368.2
12.5°	1384.7	1382.1	1384.7	1382.1	1382.1	1379.6	1367.0	1361.9	1363.1	1364.4	1359.4
15°	1374.5	1370.7	1374.5	1372.0	1373.3	1369.5	1355.6	1350.5	1350.5	1353.0	1344.2
17.5°	1359.4	1354.4	1359.4	1358.1	1356.8	1354.4	1341.7	1336.7	1335.3	1336.7	1330.4
20°	1341.7	1337.9	1341.7	1340.4	1340.4	1335.3	1322.7	1316.4	1316.4	1316.4	1310.1
22.5°	1313.9	1310.1	1313.9	1316.4	1316.4	1315.1	1303.8	1295.0	1292.4	1292.4	1284.8
25°	1282.4	1278.5	1282.4	1282.4	1281.0	1282.4	1278.5	1273.5	1269.6	1265.9	1258.3
27.5°	1251.9	1249.5	1251.9	1249.5	1251.9	1248.2	1247.0	1245.6	1240.7	1236.8	1226.7
30°	1221.6	1219.1	1221.6	1219.1	1216.7	1214.1	1207.8	1205.3	1210.3	1207.8	1191.3
32.5°	1183.8	1181.3	1183.8	1183.8	1181.3	1181.3	1171.1	1167.3	1168.6	1176.2	1161.0
35°	1144.6	1140.8	1144.6	1143.3	1144.6	1140.8	1134.5	1133.2	1128.2	1137.0	1125.6
37.5°	1099.1	1095.3	1099.1	1099.1	1099.1	1101.6	1096.6	1092.8	1085.2	1096.6	1087.8
40°	1052.4	1047.3	1052.4	1051.1	1052.4	1054.9	1052.4	1049.8	1042.3	1051.1	1043.5
42.5°	999.3	998.1	999.3	1000.6	1000.6	1005.6	1009.5	1004.4	1001.8	995.5	1000.6
45°	942.4	939.9	942.4	945.0	946.2	948.7	960.1	960.1	956.4	946.2	953.8
47.5°	881.8	875.5	881.8	889.5	889.5	893.2	904.6	913.5	907.0	894.4	898.2
50°	817.4	818.7	817.4	822.4	822.4	836.4	845.2	854.1	860.4	845.2	827.5
52.5°	754.2	753.0	754.2	758.0	763.0	769.4	784.6	793.4	803.5	794.7	766.9
55°	691.0	693.6	691.0	692.3	694.9	698.6	721.4	730.2	749.2	737.8	708.7
57.5°	627.9	624.1	627.9	630.4	631.7	635.5	654.4	670.9	682.2	683.5	648.1
60°	554.6	549.5	554.6	566.0	568.6	571.0	588.7	603.9	614.0	617.8	581.2
62.5°	490.1	481.3	490.1	497.8	502.9	509.2	521.8	544.6	553.3	554.6	502.9
65°	422.0	418.1	422.0	437.1	438.4	446.0	459.8	476.3	495.2	492.7	418.1
67.5°	360.1	360.1	360.1	370.1	377.7	381.5	399.2	406.8	430.8	433.3	348.7
70°	303.2	302.0	303.2	310.8	315.8	324.7	341.1	350.0	368.9	375.2	283.0
72.5°	248.9	247.7	248.9	255.2	260.3	267.8	281.7	291.8	308.3	315.8	219.8
75°	200.9	198.3	200.9	206.0	204.6	214.8	226.1	236.3	251.4	256.5	162.9
77.5°	154.1	154.1	154.1	159.2	159.2	169.2	174.3	186.9	195.8	203.4	120.0
80°	114.9	113.7	114.9	116.3	116.3	121.2	130.1	138.9	146.6	146.6	82.1
82.5°	80.9	78.3	80.9	80.9	80.9	83.4	88.4	90.9	96.0	99.8	51.8
85°	50.5	50.5	50.5	51.8	50.5	53.1	54.3	56.9	56.9	54.3	31.6
87.5°	32.9	31.6	32.9	31.6	31.6	30.3	30.3	30.3	29.1	27.8	17.7
90°	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.6	19.4	13.1	8.3
92.5°	45.1	36.1	45.1	54.1	56.3	79.8	111.2	126.9	111.4	80.4	57.2
95°	157.3	130.1	157.3	184.4	191.1	251.0	330.8	370.8	313.2	197.9	111.5
97.5°	376.8	325.2	376.8	428.5	441.4	479.2	529.6	554.9	458.8	266.6	122.4
100°	542.9	481.3	542.9	604.4	619.8	617.0	613.3	611.5	504.9	291.5	131.6
102.5°	706.2	653.6	706.2	758.9	772.1	723.9	659.7	627.5	519.4	303.0	140.8
105°	914.6	886.3	914.6	942.9	950.0	841.9	697.8	625.7	521.0	311.5	154.4
107.5°	1051.0	1057.9	1051.0	1044.2	1042.4	891.6	690.7	590.2	497.8	313.2	174.6
110°	1103.1	1132.6	1103.1	1073.5	1066.2	897.6	672.9	560.5	477.2	310.8	185.9



TEST NUMBER: P934836

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1107.7	1153.1	1107.7	1062.4	1051.0	878.6	648.6	533.6	459.4	310.9	199.5
115°	1078.4	1141.2	1078.4	1015.5	999.8	833.6	612.1	501.2	438.7	313.7	219.9
117.5°	1016.1	1085.8	1016.1	946.3	928.9	778.9	579.0	479.0	425.8	319.6	239.8
120°	965.9	1033.5	965.9	898.2	881.2	744.2	561.5	470.1	421.5	324.2	251.4
122.5°	917.0	983.8	917.0	850.2	833.5	710.1	545.5	463.3	419.2	331.0	265.0
125°	847.3	908.8	847.3	785.8	770.4	665.6	525.8	455.9	417.4	340.3	282.5
127.5°	784.6	836.5	784.6	732.7	719.7	629.7	509.7	449.7	416.3	349.5	299.4
130°	747.6	795.6	747.6	699.6	687.7	607.6	500.8	447.3	416.9	356.2	310.7
132.5°	714.1	757.0	714.1	671.2	660.4	588.7	493.0	445.2	417.4	361.6	319.8
135°	668.2	705.2	668.2	631.2	621.9	561.9	481.7	441.7	417.0	367.6	330.5
137.5°	631.3	661.6	631.3	601.0	593.4	542.6	474.9	441.1	419.6	376.5	344.1
140°	606.0	634.3	606.0	577.6	570.6	526.7	468.2	439.0	420.0	381.9	353.3
142.5°	585.0	609.4	585.0	560.7	554.6	516.1	464.7	439.0	421.5	386.4	360.1
145°	553.6	572.1	553.6	535.2	530.6	499.0	457.1	436.0	421.5	392.3	370.5
147.5°	529.5	544.8	529.5	514.2	510.4	485.7	452.6	436.0	424.4	401.0	383.5
150°	514.3	526.8	514.3	501.9	498.8	477.9	450.0	436.0	425.9	405.6	390.4
152.5°	501.3	510.7	501.3	492.0	489.7	471.8	448.0	436.0	426.8	408.6	394.8
155°	486.4	492.6	486.4	480.2	478.7	464.4	445.5	436.0	429.0	415.1	404.6
157.5°	474.7	479.0	474.7	470.3	469.2	458.1	443.4	436.0	431.2	421.6	414.4
160°	467.6	470.1	467.6	465.1	464.5	455.1	442.3	436.0	432.2	424.5	418.8
162.5°	463.0	465.4	463.0	460.6	460.0	452.0	441.4	436.0	433.3	427.7	423.6
165°	456.4	458.9	456.4	453.9	453.2	447.5	439.8	436.0	434.8	432.3	430.4
167.5°	451.6	452.7	451.6	450.6	450.3	446.5	441.5	439.0	437.9	435.8	434.2
170°	450.3	450.3	450.3	450.3	450.3	446.5	441.5	439.0	438.9	438.8	438.7
172.5°	446.7	445.8	446.7	447.7	447.9	444.9	441.0	439.0	439.0	439.0	439.0
175°	444.6	444.6	444.6	444.6	444.6	442.7	440.2	439.0	439.6	440.8	441.7
177.5°	442.7	441.7	442.7	443.8	444.1	442.5	440.5	439.6	440.0	441.0	441.7
180°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7



TEST NUMBER: P934836

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1354.4	1346.7	1346.7	1334.1	1329.0	1325.3	1319.0	1300.0	1295.0	1289.9	1297.5
5°	1365.7	1351.8	1341.7	1319.0	1300.0	1292.4	1268.4	1223.0	1192.6	1169.9	1157.3
7.5°	1368.2	1350.5	1331.6	1296.2	1250.7	1230.5	1157.3	1073.9	1051.1	1030.9	1018.2
10°	1365.7	1345.5	1319.0	1265.9	1158.5	1123.1	1049.8	995.5	981.6	977.8	981.6
12.5°	1356.8	1337.9	1301.3	1212.8	1062.5	1038.5	995.5	963.9	961.5	967.8	1001.8
15°	1341.7	1324.0	1281.0	1142.1	1009.5	991.8	961.5	950.1	963.9	1008.1	1110.5
17.5°	1326.5	1306.4	1253.3	1072.6	969.0	956.4	934.9	957.6	1035.9	1095.3	1129.5
20°	1306.4	1282.4	1221.6	1022.1	939.9	928.6	918.4	1020.8	1080.2	1101.6	1120.6
22.5°	1282.4	1257.0	1178.7	986.7	909.6	900.7	907.0	1056.2	1080.2	1095.3	1111.8
25°	1250.7	1229.3	1128.2	958.9	885.6	875.5	899.5	1052.4	1066.3	1070.1	1102.9
27.5°	1221.6	1193.9	1075.1	933.6	856.6	852.7	905.8	1035.9	1046.1	1049.8	1085.2
30°	1186.3	1144.6	1015.8	907.0	826.2	825.0	907.0	1015.8	1013.2	1023.3	1058.7
32.5°	1149.6	1071.3	948.7	874.2	797.2	795.9	898.2	985.5	982.9	996.8	1023.3
35°	1115.6	1014.5	857.8	836.4	760.6	761.8	876.7	950.1	951.3	963.9	980.4
37.5°	1080.2	965.2	758.0	794.7	725.2	725.2	847.7	917.2	914.7	918.4	941.2
40°	1038.5	888.1	669.6	740.3	692.3	688.6	812.4	881.8	873.0	871.8	903.3
42.5°	994.2	803.5	603.9	668.3	654.4	649.4	769.4	838.9	822.4	826.2	866.7
45°	946.2	780.7	553.3	564.7	615.2	611.5	722.6	789.6	778.2	788.4	830.1
47.5°	898.2	735.3	536.9	468.7	573.5	572.3	670.9	741.6	735.3	745.4	789.6
50°	832.6	684.7	535.7	401.8	526.9	531.8	608.9	694.9	694.9	703.7	750.4
52.5°	747.9	622.9	486.4	363.8	472.5	487.7	554.6	654.4	656.9	665.8	707.5
55°	670.9	558.4	451.0	334.8	408.1	440.9	501.5	612.7	617.8	626.6	664.6
57.5°	600.1	464.9	443.5	300.7	348.7	380.3	454.8	572.3	574.9	582.4	619.0
60°	524.3	336.0	406.8	264.0	296.9	320.9	411.8	524.3	533.2	538.1	569.8
62.5°	438.4	243.8	368.9	238.8	271.7	276.7	376.5	478.8	490.1	494.0	512.9
65°	312.0	204.6	313.3	217.3	245.1	246.3	338.6	432.1	442.1	448.5	462.4
67.5°	210.9	166.8	238.8	197.1	224.9	226.1	302.0	377.7	391.7	396.7	405.5
70°	146.6	111.2	176.9	175.7	202.1	204.6	262.8	328.5	341.1	344.9	350.0
72.5°	107.4	89.7	146.6	158.0	178.1	180.6	222.3	272.9	285.5	289.3	291.8
75°	82.1	94.8	118.8	137.7	151.6	152.9	182.0	222.3	231.2	233.7	234.9
77.5°	65.7	88.4	87.2	111.2	123.8	121.2	142.8	171.8	179.4	179.4	179.4
80°	49.2	69.5	65.7	79.6	90.9	88.4	102.3	122.6	125.1	127.6	126.3
82.5°	36.6	44.2	44.2	50.5	60.6	58.1	68.2	79.6	79.6	79.6	82.1
85°	22.8	25.2	20.2	26.5	34.1	32.9	37.9	42.9	44.2	44.2	41.7
87.5°	13.9	11.4	6.3	10.1	15.2	15.2	17.7	18.9	17.7	17.7	17.7
90°	7.7	5.4	3.0	5.4	7.7	8.3	13.1	19.4	22.6	20.1	15.0
92.5°	52.1	32.0	11.9	32.0	52.1	57.2	80.4	111.4	126.9	111.2	79.8
95°	102.3	65.4	28.5	65.4	102.3	111.5	197.9	313.2	370.8	330.8	251.0
97.5°	114.3	81.8	49.2	81.8	114.3	122.4	266.6	458.8	554.9	529.6	479.2
100°	124.2	94.7	65.2	94.7	124.2	131.6	291.5	504.9	611.5	613.3	617.0
102.5°	133.9	106.4	78.9	106.4	133.9	140.8	303.0	519.4	627.5	659.7	723.9
105°	148.6	125.3	101.9	125.3	148.6	154.4	311.5	521.0	625.7	697.8	841.9
107.5°	169.2	147.4	125.6	147.4	169.2	174.6	313.2	497.8	590.2	690.7	891.6
110°	181.0	161.3	141.7	161.3	181.0	185.9	310.8	477.2	560.5	672.9	897.6



TEST NUMBER: P934836

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.8	176.1	157.4	176.1	194.8	199.5	310.9	459.4	533.6	648.6	878.6
115°	215.6	198.3	181.1	198.3	215.6	219.9	313.7	438.7	501.2	612.1	833.6
117.5°	235.9	220.2	204.5	220.2	235.9	239.8	319.6	425.8	479.0	579.0	778.9
120°	247.7	232.9	218.2	232.9	247.7	251.4	324.2	421.5	470.1	561.5	744.2
122.5°	261.2	246.4	231.5	246.4	261.2	265.0	331.0	419.2	463.3	545.5	710.1
125°	279.1	265.5	252.0	265.5	279.1	282.5	340.3	417.4	455.9	525.8	665.6
127.5°	295.9	282.3	268.6	282.3	295.9	299.4	349.5	416.3	449.7	509.7	629.7
130°	306.9	292.2	277.5	292.2	306.9	310.7	356.2	416.9	447.3	500.8	607.6
132.5°	316.1	301.4	286.7	301.4	316.1	319.8	361.6	417.4	445.2	493.0	588.7
135°	327.1	313.6	300.2	313.6	327.1	330.5	367.6	417.0	441.7	481.7	561.9
137.5°	340.8	327.5	314.2	327.5	340.8	344.1	376.5	419.6	441.1	474.9	542.6
140°	350.3	338.0	325.8	338.0	350.3	353.3	381.9	420.0	439.0	468.2	526.7
142.5°	357.2	346.0	334.7	346.0	357.2	360.1	386.4	421.5	439.0	464.7	516.1
145°	368.0	358.2	348.2	358.2	368.0	370.5	392.3	421.5	436.0	457.1	499.0
147.5°	381.1	371.5	361.9	371.5	381.1	383.5	401.0	424.4	436.0	452.6	485.7
150°	388.2	379.5	370.8	379.5	388.2	390.4	405.6	425.9	436.0	450.0	477.9
152.5°	393.2	386.6	380.0	386.6	393.2	394.8	408.6	426.8	436.0	448.0	471.8
155°	403.3	398.5	393.7	398.5	403.3	404.6	415.1	429.0	436.0	445.5	464.4
157.5°	413.3	408.5	403.7	408.5	413.3	414.4	421.6	431.2	436.0	443.4	458.1
160°	417.9	414.2	410.5	414.2	417.9	418.8	424.5	432.2	436.0	442.3	455.1
162.5°	422.9	420.2	417.4	420.2	422.9	423.6	427.7	433.3	436.0	441.4	452.0
165°	429.7	427.2	424.7	427.2	429.7	430.4	432.3	434.8	436.0	439.8	447.5
167.5°	433.9	432.7	431.5	432.7	433.9	434.2	435.8	437.9	439.0	441.5	446.5
170°	438.4	437.2	436.0	437.2	438.4	438.7	438.8	438.9	439.0	441.5	446.5
172.5°	438.9	438.7	438.4	438.7	438.9	439.0	439.0	439.0	439.0	441.0	444.9
175°	441.7	441.7	441.7	441.7	441.7	441.7	440.8	439.6	439.0	440.2	442.7
177.5°	441.7	441.7	441.7	441.7	441.7	441.7	441.0	440.0	439.6	440.5	442.5
180°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7



TEST NUMBER: P934836

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1288.7	1284.8	1289.9	1275.9	1289.9	1284.8	1288.7	1297.5	1289.9	1295.0	1300.0
5°	1130.7	1124.4	1104.2	1087.8	1104.2	1124.4	1130.7	1157.3	1169.9	1192.6	1223.0
7.5°	1010.7	1005.6	1000.6	990.4	1000.6	1005.6	1010.7	1018.2	1030.9	1051.1	1073.9
10°	984.1	985.5	993.0	991.8	993.0	985.5	984.1	981.6	977.8	981.6	995.5
12.5°	1052.4	1063.8	1105.5	1102.9	1105.5	1063.8	1052.4	1001.8	967.8	961.5	963.9
15°	1130.7	1134.5	1143.3	1144.6	1143.3	1134.5	1130.7	1110.5	1008.1	963.9	950.1
17.5°	1138.3	1139.6	1145.9	1145.9	1145.9	1139.6	1138.3	1129.5	1095.3	1035.9	957.6
20°	1131.9	1134.5	1147.1	1149.6	1147.1	1134.5	1131.9	1120.6	1101.6	1080.2	1020.8
22.5°	1129.5	1134.5	1144.6	1143.3	1144.6	1134.5	1129.5	1111.8	1095.3	1080.2	1056.2
25°	1116.8	1116.8	1118.1	1119.3	1118.1	1116.8	1116.8	1102.9	1070.1	1066.3	1052.4
27.5°	1090.3	1092.8	1100.4	1099.1	1100.4	1092.8	1090.3	1085.2	1049.8	1046.1	1035.9
30°	1066.3	1063.8	1057.5	1052.4	1057.5	1063.8	1066.3	1058.7	1023.3	1013.2	1015.8
32.5°	1025.8	1019.5	1013.2	1009.5	1013.2	1019.5	1025.8	1023.3	996.8	982.9	985.5
35°	977.8	979.1	977.8	974.1	977.8	979.1	977.8	980.4	963.9	951.3	950.1
37.5°	943.8	946.2	945.0	939.9	945.0	946.2	943.8	941.2	918.4	914.7	917.2
40°	908.4	909.6	908.4	904.6	908.4	909.6	908.4	903.3	871.8	873.0	881.8
42.5°	874.2	873.0	869.2	866.7	869.2	873.0	874.2	866.7	826.2	822.4	838.9
45°	835.0	836.4	828.7	825.0	828.7	836.4	835.0	830.1	788.4	778.2	789.6
47.5°	795.9	795.9	789.6	785.8	789.6	795.9	795.9	789.6	745.4	735.3	741.6
50°	754.2	753.0	744.1	742.9	744.1	753.0	754.2	750.4	703.7	694.9	694.9
52.5°	706.2	706.2	707.5	710.0	707.5	706.2	706.2	707.5	665.8	656.9	654.4
55°	664.6	665.8	674.6	677.2	674.6	665.8	664.6	664.6	626.6	617.8	612.7
57.5°	621.5	621.5	627.9	627.9	627.9	621.5	621.5	619.0	582.4	574.9	572.3
60°	572.3	574.9	579.8	578.6	579.8	574.9	572.3	569.8	538.1	533.2	524.3
62.5°	520.5	523.0	524.3	521.8	524.3	523.0	520.5	512.9	494.0	490.1	478.8
65°	466.1	468.7	470.0	467.5	470.0	468.7	466.1	462.4	448.5	442.1	432.1
67.5°	410.6	409.3	408.1	413.1	408.1	409.3	410.6	405.5	396.7	391.7	377.7
70°	353.7	353.7	352.5	355.0	352.5	353.7	353.7	350.0	344.9	341.1	328.5
72.5°	293.1	291.8	296.9	293.1	296.9	291.8	293.1	291.8	289.3	285.5	272.9
75°	233.7	236.3	233.7	237.5	233.7	236.3	233.7	234.9	233.7	231.2	222.3
77.5°	178.1	180.6	178.1	178.1	178.1	180.6	178.1	179.4	179.4	179.4	171.8
80°	126.3	125.1	125.1	123.8	125.1	125.1	126.3	126.3	127.6	125.1	122.6
82.5°	80.9	79.6	79.6	82.1	79.6	79.6	80.9	82.1	79.6	79.6	79.6
85°	44.2	45.5	42.9	42.9	42.9	45.5	44.2	41.7	44.2	44.2	42.9
87.5°	16.4	15.2	15.2	15.2	15.2	15.2	16.4	17.7	17.7	17.7	18.9
90°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.6	19.4
92.5°	56.3	54.1	45.1	36.1	45.1	54.1	56.3	79.8	111.2	126.9	111.4
95°	191.1	184.4	157.3	130.1	157.3	184.4	191.1	251.0	330.8	370.8	313.2
97.5°	441.4	428.5	376.8	325.2	376.8	428.5	441.4	479.2	529.6	554.9	458.8
100°	619.8	604.4	542.9	481.3	542.9	604.4	619.8	617.0	613.3	611.5	504.9
102.5°	772.1	758.9	706.2	653.6	706.2	758.9	772.1	723.9	659.7	627.5	519.4
105°	950.0	942.9	914.6	886.3	914.6	942.9	950.0	841.9	697.8	625.7	521.0
107.5°	1042.4	1044.2	1051.0	1057.9	1051.0	1044.2	1042.4	891.6	690.7	590.2	497.8
110°	1066.2	1073.5	1103.1	1132.6	1103.1	1073.5	1066.2	897.6	672.9	560.5	477.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1051.0	1062.4	1107.7	1153.1	1107.7	1062.4	1051.0	878.6	648.6	533.6	459.4
115°	999.8	1015.5	1078.4	1141.2	1078.4	1015.5	999.8	833.6	612.1	501.2	438.7
117.5°	928.9	946.3	1016.1	1085.8	1016.1	946.3	928.9	778.9	579.0	479.0	425.8
120°	881.2	898.2	965.9	1033.5	965.9	898.2	881.2	744.2	561.5	470.1	421.5
122.5°	833.5	850.2	917.0	983.8	917.0	850.2	833.5	710.1	545.5	463.3	419.2
125°	770.4	785.8	847.3	908.8	847.3	785.8	770.4	665.6	525.8	455.9	417.4
127.5°	719.7	732.7	784.6	836.5	784.6	732.7	719.7	629.7	509.7	449.7	416.3
130°	687.7	699.6	747.6	795.6	747.6	699.6	687.7	607.6	500.8	447.3	416.9
132.5°	660.4	671.2	714.1	757.0	714.1	671.2	660.4	588.7	493.0	445.2	417.4
135°	621.9	631.2	668.2	705.2	668.2	631.2	621.9	561.9	481.7	441.7	417.0
137.5°	593.4	601.0	631.3	661.6	631.3	601.0	593.4	542.6	474.9	441.1	419.6
140°	570.6	577.6	606.0	634.3	606.0	577.6	570.6	526.7	468.2	439.0	420.0
142.5°	554.6	560.7	585.0	609.4	585.0	560.7	554.6	516.1	464.7	439.0	421.5
145°	530.6	535.2	553.6	572.1	553.6	535.2	530.6	499.0	457.1	436.0	421.5
147.5°	510.4	514.2	529.5	544.8	529.5	514.2	510.4	485.7	452.6	436.0	424.4
150°	498.8	501.9	514.3	526.8	514.3	501.9	498.8	477.9	450.0	436.0	425.9
152.5°	489.7	492.0	501.3	510.7	501.3	492.0	489.7	471.8	448.0	436.0	426.8
155°	478.7	480.2	486.4	492.6	486.4	480.2	478.7	464.4	445.5	436.0	429.0
157.5°	469.2	470.3	474.7	479.0	474.7	470.3	469.2	458.1	443.4	436.0	431.2
160°	464.5	465.1	467.6	470.1	467.6	465.1	464.5	455.1	442.3	436.0	432.2
162.5°	460.0	460.6	463.0	465.4	463.0	460.6	460.0	452.0	441.4	436.0	433.3
165°	453.2	453.9	456.4	458.9	456.4	453.9	453.2	447.5	439.8	436.0	434.8
167.5°	450.3	450.6	451.6	452.7	451.6	450.6	450.3	446.5	441.5	439.0	437.9
170°	450.3	450.3	450.3	450.3	450.3	450.3	450.3	446.5	441.5	439.0	438.9
172.5°	447.9	447.7	446.7	445.8	446.7	447.7	447.9	444.9	441.0	439.0	439.0
175°	444.6	444.6	444.6	444.6	444.6	444.6	444.6	442.7	440.2	439.0	439.6
177.5°	444.1	443.8	442.7	441.7	442.7	443.8	444.1	442.5	440.5	439.6	440.0
180°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1319.0	1325.3	1329.0	1334.1	1346.7
5°	1268.4	1292.4	1300.0	1319.0	1341.7
7.5°	1157.3	1230.5	1250.7	1296.2	1331.6
10°	1049.8	1123.1	1158.5	1265.9	1319.0
12.5°	995.5	1038.5	1062.5	1212.8	1301.3
15°	961.5	991.8	1009.5	1142.1	1281.0
17.5°	934.9	956.4	969.0	1072.6	1253.3
20°	918.4	928.6	939.9	1022.1	1221.6
22.5°	907.0	900.7	909.6	986.7	1178.7
25°	899.5	875.5	885.6	958.9	1128.2
27.5°	905.8	852.7	856.6	933.6	1075.1
30°	907.0	825.0	826.2	907.0	1015.8
32.5°	898.2	795.9	797.2	874.2	948.7
35°	876.7	761.8	760.6	836.4	857.8
37.5°	847.7	725.2	725.2	794.7	758.0
40°	812.4	688.6	692.3	740.3	669.6
42.5°	769.4	649.4	654.4	668.3	603.9
45°	722.6	611.5	615.2	564.7	553.3
47.5°	670.9	572.3	573.5	468.7	536.9
50°	608.9	531.8	526.9	401.8	535.7
52.5°	554.6	487.7	472.5	363.8	486.4
55°	501.5	440.9	408.1	334.8	451.0
57.5°	454.8	380.3	348.7	300.7	443.5
60°	411.8	320.9	296.9	264.0	406.8
62.5°	376.5	276.7	271.7	238.8	368.9
65°	338.6	246.3	245.1	217.3	313.3
67.5°	302.0	226.1	224.9	197.1	238.8
70°	262.8	204.6	202.1	175.7	176.9
72.5°	222.3	180.6	178.1	158.0	146.6
75°	182.0	152.9	151.6	137.7	118.8
77.5°	142.8	121.2	123.8	111.2	87.2
80°	102.3	88.4	90.9	79.6	65.7
82.5°	68.2	58.1	60.6	50.5	44.2
85°	37.9	32.9	34.1	26.5	20.2
87.5°	17.7	15.2	15.2	10.1	6.3
90°	13.1	8.3	7.7	5.4	3.0
92.5°	80.4	57.2	52.1	32.0	11.9
95°	197.9	111.5	102.3	65.4	28.5
97.5°	266.6	122.4	114.3	81.8	49.2
100°	291.5	131.6	124.2	94.7	65.2
102.5°	303.0	140.8	133.9	106.4	78.9
105°	311.5	154.4	148.6	125.3	101.9
107.5°	313.2	174.6	169.2	147.4	125.6
110°	310.8	185.9	181.0	161.3	141.7



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CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.9	199.5	194.8	176.1	157.4
115°	313.7	219.9	215.6	198.3	181.1
117.5°	319.6	239.8	235.9	220.2	204.5
120°	324.2	251.4	247.7	232.9	218.2
122.5°	331.0	265.0	261.2	246.4	231.5
125°	340.3	282.5	279.1	265.5	252.0
127.5°	349.5	299.4	295.9	282.3	268.6
130°	356.2	310.7	306.9	292.2	277.5
132.5°	361.6	319.8	316.1	301.4	286.7
135°	367.6	330.5	327.1	313.6	300.2
137.5°	376.5	344.1	340.8	327.5	314.2
140°	381.9	353.3	350.3	338.0	325.8
142.5°	386.4	360.1	357.2	346.0	334.7
145°	392.3	370.5	368.0	358.2	348.2
147.5°	401.0	383.5	381.1	371.5	361.9
150°	405.6	390.4	388.2	379.5	370.8
152.5°	408.6	394.8	393.2	386.6	380.0
155°	415.1	404.6	403.3	398.5	393.7
157.5°	421.6	414.4	413.3	408.5	403.7
160°	424.5	418.8	417.9	414.2	410.5
162.5°	427.7	423.6	422.9	420.2	417.4
165°	432.3	430.4	429.7	427.2	424.7
167.5°	435.8	434.2	433.9	432.7	431.5
170°	438.8	438.7	438.4	437.2	436.0
172.5°	439.0	439.0	438.9	438.7	438.4
175°	440.8	441.7	441.7	441.7	441.7
177.5°	441.0	441.7	441.7	441.7	441.7
180°	441.7	441.7	441.7	441.7	441.7



TEST NUMBER: P934836
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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	13.97	14.87	14.88	15.81	17.01	16.76	17.67	17.68	18.60	19.80
	3H	14.45	15.26	15.37	16.20	17.43	18.10	18.91	19.03	19.86	21.08
	4H	14.64	15.41	15.58	16.36	17.59	18.54	19.31	19.48	20.26	21.49
	6H	14.76	15.47	15.72	16.42	17.67	18.82	19.53	19.78	20.48	21.73
	8H	14.76	15.44	15.73	16.41	17.66	18.89	19.57	19.85	20.54	21.78
	12H	14.74	15.38	15.70	16.34	17.61	18.93	19.57	19.90	20.53	21.81
4H	2H	15.00	15.76	15.94	16.71	17.95	17.18	17.95	18.13	18.90	20.13
	3H	16.03	16.67	16.99	17.65	18.89	18.68	19.32	19.64	20.30	21.55
	4H	16.31	16.89	17.27	17.86	19.14	19.20	19.79	20.17	20.76	22.03
	6H	16.43	16.94	17.41	17.93	19.21	19.56	20.07	20.54	21.06	22.34
	8H	16.44	16.91	17.42	17.90	19.19	19.67	20.14	20.65	21.13	22.41
	12H	16.41	16.83	17.41	17.84	19.13	19.72	20.14	20.72	21.15	22.44
8H	4H	16.76	17.23	17.74	18.22	19.50	19.33	19.80	20.31	20.79	22.08
	6H	17.02	17.41	18.03	18.44	19.73	19.76	20.15	20.77	21.18	22.47
	8H	17.06	17.41	18.08	18.43	19.73	19.91	20.25	20.93	21.27	22.58
	12H	17.05	17.35	18.07	18.36	19.71	20.00	20.31	21.02	21.32	22.67
12H	4H	16.77	17.19	17.77	18.20	19.49	19.30	19.72	20.30	20.73	22.02
	6H	17.08	17.42	18.10	18.44	19.75	19.76	20.10	20.78	21.12	22.43
	8H	17.15	17.45	18.17	18.46	19.81	19.92	20.22	20.94	21.23	22.58