

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: P934885

Luminaire Tested: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934885
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-B2750-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

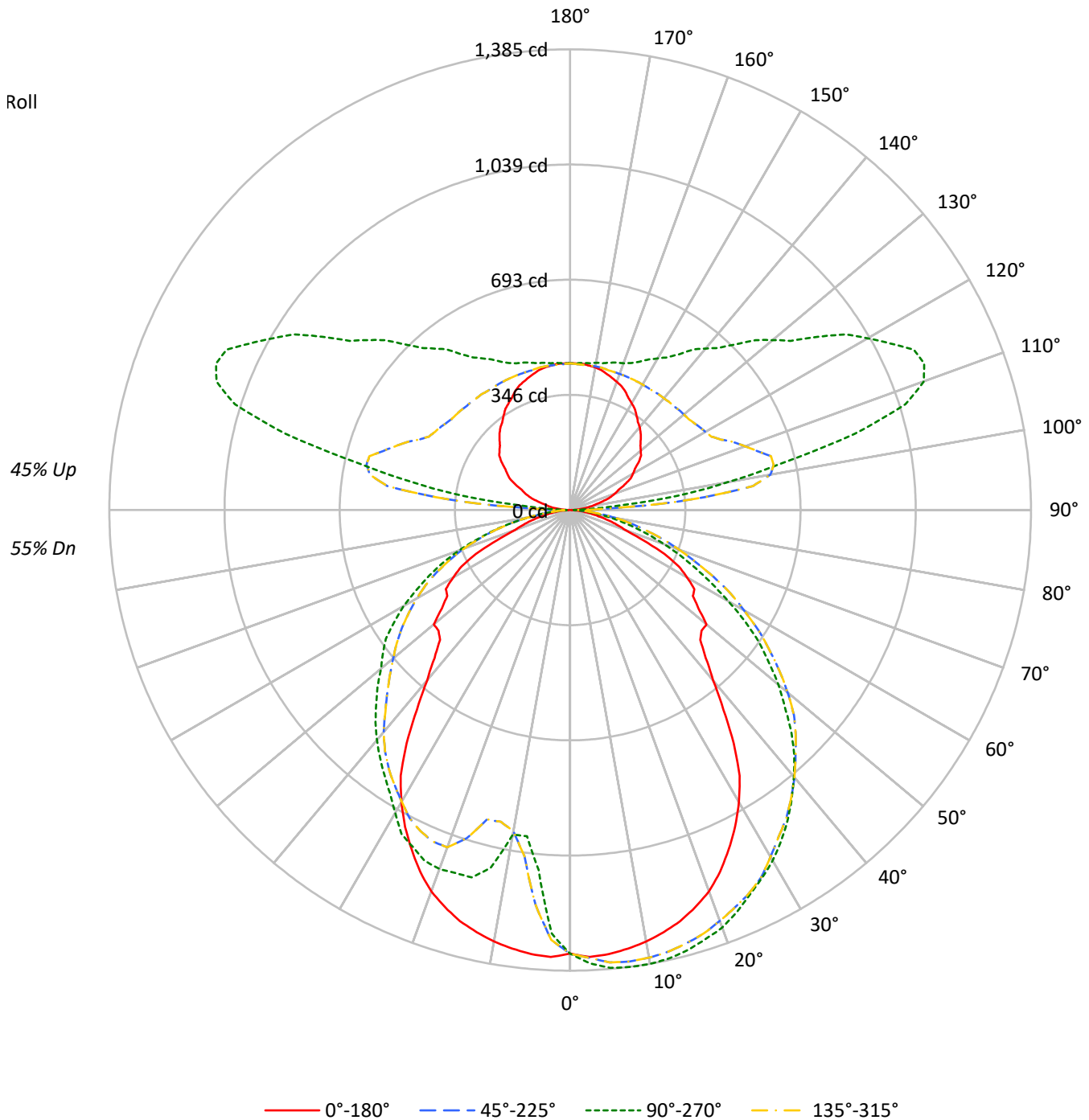
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6319.3 lumens
Efficiency: N/A
Efficacy: 123.4 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): 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°	12376	12376	12376	12376
5°	12455	12493	12455	9823
10°	12358	12306	12358	8798
15°	12209	12039	12209	10052
20°	11940	11723	11940	10074
25°	11404	11263	11404	9860
30°	10715	10880	10715	9392
35°	9538	10397	9538	8877
40°	7935	9827	7935	8487
45°	7076	9161	7076	8041
50°	7500	8366	7500	7591
55°	7037	7510	7037	7331
60°	7227	6376	7227	6715
65°	6523	5271	6523	5893
70°	4486	4202	4486	4940
75°	3889	3106	3889	3719
80°	3070	2052	3070	2236
85°	1673	1086	1673	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10866 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.9
10°-20°	341.8	5.4
20°-30°	528.4	8.4
30°-40°	630.8	10.0
40°-50°	634.5	10.0
50°-60°	552.1	8.7
60°-70°	391.4	6.2
70°-80°	207.1	3.3
80°-90°	53.3	0.8
90°-100°	215.0	3.4
100°-110°	565.3	8.9
110°-120°	586.1	9.3
120°-130°	470.2	7.4
130°-140°	368.9	5.8
140°-150°	283.1	4.5
150°-160°	203.9	3.2
160°-170°	124.8	2.0
170°-180°	42.2	0.7
0°-30°	990.6	15.7
0°-40°	1621.4	25.7
0°-60°	2808.0	44.4
0°-90°	3459.7	54.7
90°-120°	1366.5	21.6
90°-150°	2488.7	39.4
90°-180°	2860.0	45.3
0°-180°	6319.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1334	1334	1334	1334	1334	
5°	1340	1382	1340	1086	1340	127
15°	1279	1369	1279	1143	1279	360
25°	1127	1277	1127	1118	1127	517
35°	857	1139	857	973	857	530
45°	553	939	553	824	553	443
55°	450	693	450	676	450	414
65°	313	418	313	467	313	299
75°	119	198	119	237	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	885	102	885	102	108
115°	181	1140	181	1140	181	179
125°	252	908	252	908	252	223
135°	300	704	300	704	300	232
145°	348	571	348	571	348	218
155°	393	492	393	492	393	181
165°	424	458	424	458	424	120
175°	441	444	441	444	441	42
180°	441	441	441	441	441	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1345.0	1345.0	1352.7	1355.1	1355.1	1351.3	1347.6	1351.3	1362.7	1366.5	1365.3
5°	1340.1	1350.1	1364.0	1366.5	1369.0	1367.8	1365.3	1367.8	1380.4	1382.9	1384.2
7.5°	1329.9	1348.8	1366.5	1370.3	1374.1	1370.3	1369.0	1371.6	1384.2	1386.7	1386.7
10°	1317.3	1343.8	1364.0	1366.5	1370.3	1366.5	1366.5	1371.6	1384.2	1386.7	1388.0
12.5°	1299.7	1336.2	1355.1	1357.7	1362.7	1361.4	1360.2	1365.3	1377.9	1380.4	1380.4
15°	1279.4	1322.4	1340.1	1342.5	1351.3	1348.8	1348.8	1353.9	1367.8	1371.6	1370.3
17.5°	1251.7	1304.7	1324.9	1328.7	1335.0	1333.7	1335.0	1340.1	1352.7	1355.1	1356.4
20°	1220.1	1280.8	1304.7	1308.4	1314.7	1314.7	1314.7	1321.1	1333.7	1338.7	1338.7
22.5°	1177.2	1255.4	1280.8	1283.2	1290.8	1290.8	1293.4	1302.1	1313.5	1314.7	1314.7
25°	1126.8	1227.7	1249.1	1256.8	1264.3	1268.0	1271.9	1276.9	1280.8	1279.4	1280.8
27.5°	1073.8	1192.4	1220.1	1225.2	1235.3	1239.1	1244.1	1245.4	1246.7	1250.4	1247.9
30°	1014.5	1143.1	1184.8	1189.8	1206.3	1208.7	1203.8	1206.3	1212.6	1215.1	1217.6
32.5°	947.6	1070.0	1148.2	1159.6	1174.7	1167.1	1165.9	1169.7	1179.8	1179.8	1182.3
35°	856.7	1013.3	1114.2	1124.2	1135.6	1126.8	1131.8	1133.1	1139.4	1143.1	1141.9
37.5°	757.0	964.0	1078.9	1086.4	1095.2	1083.8	1091.5	1095.2	1100.3	1097.8	1097.8
40°	668.8	887.0	1037.2	1042.2	1049.8	1041.0	1048.5	1051.1	1053.6	1051.1	1049.8
42.5°	603.2	802.5	993.0	999.3	994.3	1000.6	1003.1	1008.2	1004.4	999.3	999.3
45°	552.7	779.8	945.1	952.6	945.1	955.2	958.9	958.9	947.6	945.1	943.8
47.5°	536.2	734.4	897.1	897.1	893.3	905.9	912.3	903.4	892.1	888.3	888.3
50°	535.0	683.9	831.5	826.5	844.1	859.3	853.0	844.1	835.3	821.4	821.4
52.5°	485.8	622.1	747.0	765.9	793.7	802.5	792.4	783.6	768.4	762.1	757.0
55°	450.5	557.7	670.0	707.8	736.9	748.2	729.3	720.5	697.7	694.0	691.4
57.5°	442.9	464.3	599.4	647.3	682.6	681.4	670.0	653.6	634.7	630.9	629.6
60°	406.3	335.6	523.6	580.4	617.0	613.2	603.2	588.0	570.3	567.8	565.3
62.5°	368.4	243.5	437.9	502.2	553.9	552.7	543.9	521.1	508.5	502.2	497.2
65°	313.0	204.4	311.6	417.6	492.1	494.6	475.7	459.3	445.4	437.9	436.5
67.5°	238.5	166.6	210.7	348.3	432.8	430.2	406.3	398.7	381.0	377.2	369.7
70°	176.7	111.1	146.4	282.7	374.7	368.4	349.5	340.6	324.3	315.4	310.4
72.5°	146.4	89.6	107.2	219.6	315.4	307.9	291.5	281.3	267.5	260.0	254.9
75°	118.6	94.6	82.0	162.7	256.1	251.1	236.0	225.9	214.5	204.4	205.7
77.5°	87.1	88.3	65.6	119.9	203.1	195.6	186.7	174.1	169.0	159.0	159.0
80°	65.6	69.4	49.2	82.0	146.4	146.4	138.8	130.0	121.1	116.1	116.1
82.5°	44.1	44.1	36.6	51.8	99.7	95.9	90.8	88.3	83.3	80.8	80.8
85°	20.2	25.2	22.7	31.5	54.2	56.8	56.8	54.2	53.0	50.4	51.8
87.5°	6.3	11.4	13.8	17.7	27.8	29.0	30.3	30.3	30.3	31.5	31.5
90°	3.0	5.3	7.7	8.3	13.1	19.4	22.5	20.1	15.0	11.3	11.3
92.5°	11.8	32.0	52.0	57.1	80.3	111.3	126.7	111.1	79.7	56.2	54.1
95°	28.5	65.3	102.2	111.4	197.7	312.8	370.3	330.4	250.7	190.9	184.1
97.5°	49.2	81.7	114.1	122.2	266.3	458.2	554.2	529.0	478.6	440.8	427.9
100°	65.1	94.5	124.1	131.4	291.2	504.2	610.7	612.5	616.3	619.0	603.7
102.5°	78.8	106.3	133.7	140.6	302.6	518.8	626.8	658.9	723.0	771.2	758.0
105°	101.8	125.1	148.4	154.2	311.1	520.4	625.0	697.0	840.9	948.8	941.7
107.5°	125.5	147.3	168.9	174.4	312.8	497.2	589.4	689.8	890.5	1041.1	1042.9
110°	141.5	161.1	180.8	185.7	310.4	476.6	559.8	672.0	896.5	1064.8	1072.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.2	175.9	194.5	199.2	310.5	458.8	532.9	647.8	877.5	1049.7	1061.1
115°	180.9	198.1	215.4	219.6	313.3	438.2	500.6	611.3	832.6	998.5	1014.2
117.5°	204.3	219.9	235.6	239.5	319.2	425.3	478.4	578.3	777.9	927.8	945.2
120°	217.9	232.6	247.3	251.1	323.8	421.0	469.5	560.8	743.3	880.1	897.0
122.5°	231.2	246.1	260.9	264.6	330.6	418.7	462.7	544.8	709.2	832.5	849.2
125°	251.6	265.2	278.8	282.1	339.9	416.9	455.3	525.2	664.8	769.4	784.8
127.5°	268.3	281.9	295.6	299.0	349.1	415.8	449.1	509.1	629.0	718.8	731.8
130°	277.1	291.8	306.6	310.3	355.7	416.4	446.7	500.1	606.8	686.8	698.8
132.5°	286.3	301.0	315.7	319.4	361.2	416.9	444.6	492.4	588.0	659.6	670.3
135°	299.9	313.2	326.7	330.0	367.1	416.5	441.1	481.1	561.2	621.1	630.4
137.5°	313.8	327.1	340.4	343.7	376.0	419.1	440.5	474.3	542.0	592.7	600.2
140°	325.4	337.6	349.8	352.9	381.4	419.4	438.4	467.7	526.0	569.8	576.9
142.5°	334.2	345.5	356.8	359.7	385.9	421.0	438.4	464.1	515.4	553.9	560.0
145°	347.8	357.7	367.6	370.1	391.8	421.0	435.5	456.5	498.4	529.9	534.5
147.5°	361.5	371.0	380.7	383.1	400.5	423.8	435.5	452.0	485.0	509.8	513.6
150°	370.3	379.0	387.7	389.9	405.1	425.4	435.5	449.4	477.3	498.2	501.3
152.5°	379.5	386.1	392.7	394.3	408.1	426.3	435.5	447.4	471.2	489.1	491.3
155°	393.2	398.0	402.8	404.1	414.6	428.5	435.5	444.9	463.8	478.1	479.6
157.5°	403.2	408.0	412.8	413.9	421.1	430.7	435.5	442.8	457.5	468.6	469.7
160°	410.0	413.7	417.3	418.3	424.0	431.7	435.5	441.8	454.5	463.9	464.5
162.5°	416.9	419.6	422.4	423.1	427.2	432.7	435.5	440.8	451.4	459.5	460.0
165°	424.2	426.7	429.2	429.8	431.8	434.2	435.5	439.3	446.9	452.7	453.3
167.5°	431.0	432.1	433.4	433.7	435.3	437.4	438.4	440.9	446.0	449.7	450.0
170°	435.5	436.6	437.9	438.2	438.2	438.3	438.4	440.9	446.0	449.7	449.7
172.5°	437.9	438.2	438.3	438.4	438.4	438.4	438.4	440.4	444.4	447.3	447.1
175°	441.1	441.1	441.1	441.1	440.3	439.0	438.4	439.7	442.2	444.1	444.1
177.5°	441.1	441.1	441.1	441.1	440.4	439.5	439.0	440.0	442.0	443.5	443.2
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1367.8	1364.0	1367.8	1365.3	1366.5	1362.7	1351.3	1347.6	1351.3	1355.1	1355.1
5°	1384.2	1381.7	1384.2	1384.2	1382.9	1380.4	1367.8	1365.3	1367.8	1369.0	1366.5
7.5°	1389.2	1385.4	1389.2	1386.7	1386.7	1384.2	1371.6	1369.0	1370.3	1374.1	1370.3
10°	1389.2	1385.4	1389.2	1388.0	1386.7	1384.2	1371.6	1366.5	1366.5	1370.3	1366.5
12.5°	1382.9	1380.4	1382.9	1380.4	1380.4	1377.9	1365.3	1360.2	1361.4	1362.7	1357.7
15°	1372.8	1369.0	1372.8	1370.3	1371.6	1367.8	1353.9	1348.8	1348.8	1351.3	1342.5
17.5°	1357.7	1352.7	1357.7	1356.4	1355.1	1352.7	1340.1	1335.0	1333.7	1335.0	1328.7
20°	1340.1	1336.2	1340.1	1338.7	1338.7	1333.7	1321.1	1314.7	1314.7	1314.7	1308.4
22.5°	1312.3	1308.4	1312.3	1314.7	1314.7	1313.5	1302.1	1293.4	1290.8	1290.8	1283.2
25°	1280.8	1276.9	1280.8	1280.8	1279.4	1280.8	1276.9	1271.9	1268.0	1264.3	1256.8
27.5°	1250.4	1247.9	1250.4	1247.9	1250.4	1246.7	1245.4	1244.1	1239.1	1235.3	1225.2
30°	1220.1	1217.6	1220.1	1217.6	1215.1	1212.6	1206.3	1203.8	1208.7	1206.3	1189.8
32.5°	1182.3	1179.8	1182.3	1182.3	1179.8	1179.8	1169.7	1165.9	1167.1	1174.7	1159.6
35°	1143.1	1139.4	1143.1	1141.9	1143.1	1139.4	1133.1	1131.8	1126.8	1135.6	1124.2
37.5°	1097.8	1094.0	1097.8	1097.8	1097.8	1100.3	1095.2	1091.5	1083.8	1095.2	1086.4
40°	1051.1	1046.0	1051.1	1049.8	1051.1	1053.6	1051.1	1048.5	1041.0	1049.8	1042.2
42.5°	998.1	996.8	998.1	999.3	999.3	1004.4	1008.2	1003.1	1000.6	994.3	999.3
45°	941.2	938.8	941.2	943.8	945.1	947.6	958.9	958.9	955.2	945.1	952.6
47.5°	880.7	874.4	880.7	888.3	888.3	892.1	903.4	912.3	905.9	893.3	897.1
50°	816.3	817.7	816.3	821.4	821.4	835.3	844.1	853.0	859.3	844.1	826.5
52.5°	753.3	752.1	753.3	757.0	762.1	768.4	783.6	792.4	802.5	793.7	765.9
55°	690.2	692.8	690.2	691.4	694.0	697.7	720.5	729.3	748.2	736.9	707.8
57.5°	627.1	623.3	627.1	629.6	630.9	634.7	653.6	670.0	681.4	682.6	647.3
60°	553.9	548.8	553.9	565.3	567.8	570.3	588.0	603.2	613.2	617.0	580.4
62.5°	489.5	480.7	489.5	497.2	502.2	508.5	521.1	543.9	552.7	553.9	502.2
65°	421.4	417.6	421.4	436.5	437.9	445.4	459.3	475.7	494.6	492.1	417.6
67.5°	359.7	359.7	359.7	369.7	377.2	381.0	398.7	406.3	430.2	432.8	348.3
70°	302.8	301.6	302.8	310.4	315.4	324.3	340.6	349.5	368.4	374.7	282.7
72.5°	248.6	247.3	248.6	254.9	260.0	267.5	281.3	291.5	307.9	315.4	219.6
75°	200.6	198.1	200.6	205.7	204.4	214.5	225.9	236.0	251.1	256.1	162.7
77.5°	153.9	153.9	153.9	159.0	159.0	169.0	174.1	186.7	195.6	203.1	119.9
80°	114.8	113.5	114.8	116.1	116.1	121.1	130.0	138.8	146.4	146.4	82.0
82.5°	80.8	78.2	80.8	80.8	80.8	83.3	88.3	90.8	95.9	99.7	51.8
85°	50.4	50.4	50.4	51.8	50.4	53.0	54.2	56.8	56.8	54.2	31.5
87.5°	32.9	31.5	32.9	31.5	31.5	30.3	30.3	30.3	29.0	27.8	17.7
90°	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.5	19.4	13.1	8.3
92.5°	45.1	36.1	45.1	54.1	56.2	79.7	111.1	126.7	111.3	80.3	57.1
95°	157.1	130.0	157.1	184.1	190.9	250.7	330.4	370.3	312.8	197.7	111.4
97.5°	376.4	324.8	376.4	427.9	440.8	478.6	529.0	554.2	458.2	266.3	122.2
100°	542.2	480.7	542.2	603.7	619.0	616.3	612.5	610.7	504.2	291.2	131.4
102.5°	705.4	652.7	705.4	758.0	771.2	723.0	658.9	626.8	518.8	302.6	140.6
105°	913.5	885.2	913.5	941.7	948.8	840.9	697.0	625.0	520.4	311.1	154.2
107.5°	1049.7	1056.6	1049.7	1042.9	1041.1	890.5	689.8	589.4	497.2	312.8	174.4
110°	1101.7	1131.2	1101.7	1072.2	1064.8	896.5	672.0	559.8	476.6	310.4	185.7



TEST NUMBER: P934885

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1106.4	1151.6	1106.4	1061.1	1049.7	877.5	647.8	532.9	458.8	310.5	199.2
115°	1077.0	1139.8	1077.0	1014.2	998.5	832.6	611.3	500.6	438.2	313.3	219.6
117.5°	1014.8	1084.4	1014.8	945.2	927.8	777.9	578.3	478.4	425.3	319.2	239.5
120°	964.6	1032.3	964.6	897.0	880.1	743.3	560.8	469.5	421.0	323.8	251.1
122.5°	915.8	982.6	915.8	849.2	832.5	709.2	544.8	462.7	418.7	330.6	264.6
125°	846.2	907.6	846.2	784.8	769.4	664.8	525.2	455.3	416.9	339.9	282.1
127.5°	783.6	835.4	783.6	731.8	718.8	629.0	509.1	449.1	415.8	349.1	299.0
130°	746.7	794.6	746.7	698.8	686.8	606.8	500.1	446.7	416.4	355.7	310.3
132.5°	713.2	756.1	713.2	670.3	659.6	588.0	492.4	444.6	416.9	361.2	319.4
135°	667.4	704.3	667.4	630.4	621.1	561.2	481.1	441.1	416.5	367.1	330.0
137.5°	630.5	660.8	630.5	600.2	592.7	542.0	474.3	440.5	419.1	376.0	343.7
140°	605.3	633.5	605.3	576.9	569.8	526.0	467.7	438.4	419.4	381.4	352.9
142.5°	584.3	608.6	584.3	560.0	553.9	515.4	464.1	438.4	421.0	385.9	359.7
145°	552.9	571.4	552.9	534.5	529.9	498.4	456.5	435.5	421.0	391.8	370.1
147.5°	528.9	544.2	528.9	513.6	509.8	485.0	452.0	435.5	423.8	400.5	383.1
150°	513.7	526.1	513.7	501.3	498.2	477.3	449.4	435.5	425.4	405.1	389.9
152.5°	500.7	510.1	500.7	491.3	489.1	471.2	447.4	435.5	426.3	408.1	394.3
155°	485.8	492.0	485.8	479.6	478.1	463.8	444.9	435.5	428.5	414.6	404.1
157.5°	474.1	478.4	474.1	469.7	468.6	457.5	442.8	435.5	430.7	421.1	413.9
160°	467.0	469.5	467.0	464.5	463.9	454.5	441.8	435.5	431.7	424.0	418.3
162.5°	462.4	464.8	462.4	460.0	459.5	451.4	440.8	435.5	432.7	427.2	423.1
165°	455.8	458.3	455.8	453.3	452.7	446.9	439.3	435.5	434.2	431.8	429.8
167.5°	451.0	452.1	451.0	450.0	449.7	446.0	440.9	438.4	437.4	435.3	433.7
170°	449.7	449.7	449.7	449.7	449.7	446.0	440.9	438.4	438.3	438.2	438.2
172.5°	446.2	445.2	446.2	447.1	447.3	444.4	440.4	438.4	438.4	438.4	438.4
175°	444.1	444.1	444.1	444.1	444.1	442.2	439.7	438.4	439.0	440.3	441.1
177.5°	442.2	441.1	442.2	443.2	443.5	442.0	440.0	439.0	439.5	440.4	441.1
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



TEST NUMBER: P934885

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1352.7	1345.0	1345.0	1332.4	1327.4	1323.6	1317.3	1298.4	1293.4	1288.3	1295.8
5°	1364.0	1350.1	1340.1	1317.3	1298.4	1290.8	1266.8	1221.4	1191.1	1168.4	1155.8
7.5°	1366.5	1348.8	1329.9	1294.6	1249.1	1229.0	1155.8	1072.6	1049.8	1029.6	1017.0
10°	1364.0	1343.8	1317.3	1264.3	1157.1	1121.7	1048.5	994.3	980.4	976.6	980.4
12.5°	1355.1	1336.2	1299.7	1211.3	1061.2	1037.2	994.3	962.7	960.3	966.6	1000.6
15°	1340.1	1322.4	1279.4	1140.7	1008.2	990.5	960.3	948.9	962.7	1006.9	1109.1
17.5°	1324.9	1304.7	1251.7	1071.2	967.8	955.2	933.7	956.4	1034.6	1094.0	1128.0
20°	1304.7	1280.8	1220.1	1020.8	938.8	927.4	917.3	1019.6	1078.9	1100.3	1119.2
22.5°	1280.8	1255.4	1177.2	985.5	908.5	899.6	905.9	1054.9	1078.9	1094.0	1110.4
25°	1249.1	1227.7	1126.8	957.7	884.5	874.4	898.4	1051.1	1064.9	1068.7	1101.5
27.5°	1220.1	1192.4	1073.8	932.5	855.5	851.7	904.7	1034.6	1044.8	1048.5	1083.8
30°	1184.8	1143.1	1014.5	905.9	825.2	824.0	905.9	1014.5	1011.9	1022.0	1057.4
32.5°	1148.2	1070.0	947.6	873.2	796.2	794.9	897.1	984.2	981.6	995.6	1022.0
35°	1114.2	1013.3	856.7	835.3	759.6	760.8	875.6	948.9	950.1	962.7	979.2
37.5°	1078.9	964.0	757.0	793.7	724.3	724.3	846.6	916.0	913.6	917.3	940.0
40°	1037.2	887.0	668.8	739.4	691.4	687.7	811.4	880.7	871.9	870.7	902.2
42.5°	993.0	802.5	603.2	667.4	653.6	648.5	768.4	837.8	821.4	825.2	865.6
45°	945.1	779.8	552.7	564.0	614.4	610.7	721.7	788.6	777.3	787.4	829.0
47.5°	897.1	734.4	536.2	468.1	572.8	571.6	670.0	740.7	734.4	744.4	788.6
50°	831.5	683.9	535.0	401.3	526.2	531.2	608.1	694.0	694.0	702.8	749.5
52.5°	747.0	622.1	485.8	363.4	471.9	487.0	553.9	653.6	656.1	665.0	706.6
55°	670.0	557.7	450.5	334.3	407.6	440.4	500.9	612.0	617.0	625.8	663.7
57.5°	599.4	464.3	442.9	300.3	348.3	379.8	454.2	571.6	574.1	581.7	618.3
60°	523.6	335.6	406.3	263.7	296.5	320.5	411.3	523.6	532.5	537.5	569.1
62.5°	437.9	243.5	368.4	238.5	271.3	276.4	376.0	478.2	489.5	493.4	512.3
65°	311.6	204.4	313.0	217.1	244.8	246.0	338.2	431.6	441.6	447.9	461.8
67.5°	210.7	166.6	238.5	196.8	224.6	225.9	301.6	377.2	391.2	396.2	405.0
70°	146.4	111.1	176.7	175.4	201.9	204.4	262.4	328.0	340.6	344.5	349.5
72.5°	107.2	89.6	146.4	157.8	177.9	180.4	222.0	272.6	285.2	289.0	291.5
75°	82.0	94.6	118.6	137.5	151.4	152.7	181.7	222.0	230.9	233.4	234.6
77.5°	65.6	88.3	87.1	111.1	123.7	121.1	142.6	171.6	179.2	179.2	179.2
80°	49.2	69.4	65.6	79.5	90.8	88.3	102.2	122.4	124.9	127.4	126.2
82.5°	36.6	44.1	44.1	50.4	60.5	58.1	68.1	79.5	79.5	79.5	82.0
85°	22.7	25.2	20.2	26.5	34.1	32.9	37.8	42.9	44.1	44.1	41.6
87.5°	13.8	11.4	6.3	10.1	15.2	15.2	17.7	18.9	17.7	17.7	17.7
90°	7.7	5.3	3.0	5.3	7.7	8.3	13.1	19.4	22.5	20.1	15.0
92.5°	52.0	32.0	11.8	32.0	52.0	57.1	80.3	111.3	126.7	111.1	79.7
95°	102.2	65.3	28.5	65.3	102.2	111.4	197.7	312.8	370.3	330.4	250.7
97.5°	114.1	81.7	49.2	81.7	114.1	122.2	266.3	458.2	554.2	529.0	478.6
100°	124.1	94.5	65.1	94.5	124.1	131.4	291.2	504.2	610.7	612.5	616.3
102.5°	133.7	106.3	78.8	106.3	133.7	140.6	302.6	518.8	626.8	658.9	723.0
105°	148.4	125.1	101.8	125.1	148.4	154.2	311.1	520.4	625.0	697.0	840.9
107.5°	168.9	147.3	125.5	147.3	168.9	174.4	312.8	497.2	589.4	689.8	890.5
110°	180.8	161.1	141.5	161.1	180.8	185.7	310.4	476.6	559.8	672.0	896.5



TEST NUMBER: P934885

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.5	175.9	157.2	175.9	194.5	199.2	310.5	458.8	532.9	647.8	877.5
115°	215.4	198.1	180.9	198.1	215.4	219.6	313.3	438.2	500.6	611.3	832.6
117.5°	235.6	219.9	204.3	219.9	235.6	239.5	319.2	425.3	478.4	578.3	777.9
120°	247.3	232.6	217.9	232.6	247.3	251.1	323.8	421.0	469.5	560.8	743.3
122.5°	260.9	246.1	231.2	246.1	260.9	264.6	330.6	418.7	462.7	544.8	709.2
125°	278.8	265.2	251.6	265.2	278.8	282.1	339.9	416.9	455.3	525.2	664.8
127.5°	295.6	281.9	268.3	281.9	295.6	299.0	349.1	415.8	449.1	509.1	629.0
130°	306.6	291.8	277.1	291.8	306.6	310.3	355.7	416.4	446.7	500.1	606.8
132.5°	315.7	301.0	286.3	301.0	315.7	319.4	361.2	416.9	444.6	492.4	588.0
135°	326.7	313.2	299.9	313.2	326.7	330.0	367.1	416.5	441.1	481.1	561.2
137.5°	340.4	327.1	313.8	327.1	340.4	343.7	376.0	419.1	440.5	474.3	542.0
140°	349.8	337.6	325.4	337.6	349.8	352.9	381.4	419.4	438.4	467.7	526.0
142.5°	356.8	345.5	334.2	345.5	356.8	359.7	385.9	421.0	438.4	464.1	515.4
145°	367.6	357.7	347.8	357.7	367.6	370.1	391.8	421.0	435.5	456.5	498.4
147.5°	380.7	371.0	361.5	371.0	380.7	383.1	400.5	423.8	435.5	452.0	485.0
150°	387.7	379.0	370.3	379.0	387.7	389.9	405.1	425.4	435.5	449.4	477.3
152.5°	392.7	386.1	379.5	386.1	392.7	394.3	408.1	426.3	435.5	447.4	471.2
155°	402.8	398.0	393.2	398.0	402.8	404.1	414.6	428.5	435.5	444.9	463.8
157.5°	412.8	408.0	403.2	408.0	412.8	413.9	421.1	430.7	435.5	442.8	457.5
160°	417.3	413.7	410.0	413.7	417.3	418.3	424.0	431.7	435.5	441.8	454.5
162.5°	422.4	419.6	416.9	419.6	422.4	423.1	427.2	432.7	435.5	440.8	451.4
165°	429.2	426.7	424.2	426.7	429.2	429.8	431.8	434.2	435.5	439.3	446.9
167.5°	433.4	432.1	431.0	432.1	433.4	433.7	435.3	437.4	438.4	440.9	446.0
170°	437.9	436.6	435.5	436.6	437.9	438.2	438.2	438.3	438.4	440.9	446.0
172.5°	438.3	438.2	437.9	438.2	438.3	438.4	438.4	438.4	438.4	440.4	444.4
175°	441.1	441.1	441.1	441.1	441.1	441.1	440.3	439.0	438.4	439.7	442.2
177.5°	441.1	441.1	441.1	441.1	441.1	441.1	440.4	439.5	439.0	440.0	442.0
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



TEST NUMBER: P934885

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1287.1	1283.2	1288.3	1274.4	1288.3	1283.2	1287.1	1295.8	1288.3	1293.4	1298.4
5°	1129.3	1123.0	1102.8	1086.4	1102.8	1123.0	1129.3	1155.8	1168.4	1191.1	1221.4
7.5°	1009.4	1004.4	999.3	989.2	999.3	1004.4	1009.4	1017.0	1029.6	1049.8	1072.6
10°	982.9	984.2	991.8	990.5	991.8	984.2	982.9	980.4	976.6	980.4	994.3
12.5°	1051.1	1062.4	1104.1	1101.5	1104.1	1062.4	1051.1	1000.6	966.6	960.3	962.7
15°	1129.3	1133.1	1141.9	1143.1	1141.9	1133.1	1129.3	1109.1	1006.9	962.7	948.9
17.5°	1136.8	1138.2	1144.5	1144.5	1144.5	1138.2	1136.8	1128.0	1094.0	1034.6	956.4
20°	1130.5	1133.1	1145.7	1148.2	1145.7	1133.1	1130.5	1119.2	1100.3	1078.9	1019.6
22.5°	1128.0	1133.1	1143.1	1141.9	1143.1	1133.1	1128.0	1110.4	1094.0	1078.9	1054.9
25°	1115.4	1115.4	1116.7	1117.9	1116.7	1115.4	1115.4	1101.5	1068.7	1064.9	1051.1
27.5°	1088.9	1091.5	1099.0	1097.8	1099.0	1091.5	1088.9	1083.8	1048.5	1044.8	1034.6
30°	1064.9	1062.4	1056.1	1051.1	1056.1	1062.4	1064.9	1057.4	1022.0	1011.9	1014.5
32.5°	1024.5	1018.2	1011.9	1008.2	1011.9	1018.2	1024.5	1022.0	995.6	981.6	984.2
35°	976.6	977.9	976.6	972.9	976.6	977.9	976.6	979.2	962.7	950.1	948.9
37.5°	942.6	945.1	943.8	938.8	943.8	945.1	942.6	940.0	917.3	913.6	916.0
40°	907.2	908.5	907.2	903.4	907.2	908.5	907.2	902.2	870.7	871.9	880.7
42.5°	873.2	871.9	868.1	865.6	868.1	871.9	873.2	865.6	825.2	821.4	837.8
45°	834.0	835.3	827.7	824.0	827.7	835.3	834.0	829.0	787.4	777.3	788.6
47.5°	794.9	794.9	788.6	784.8	788.6	794.9	794.9	788.6	744.4	734.4	740.7
50°	753.3	752.1	743.2	741.9	743.2	752.1	753.3	749.5	702.8	694.0	694.0
52.5°	705.4	705.4	706.6	709.1	706.6	705.4	705.4	706.6	665.0	656.1	653.6
55°	663.7	665.0	673.8	676.3	673.8	665.0	663.7	663.7	625.8	617.0	612.0
57.5°	620.8	620.8	627.1	627.1	627.1	620.8	620.8	618.3	581.7	574.1	571.6
60°	571.6	574.1	579.1	577.9	579.1	574.1	571.6	569.1	537.5	532.5	523.6
62.5°	519.8	522.4	523.6	521.1	523.6	522.4	519.8	512.3	493.4	489.5	478.2
65°	465.6	468.1	469.4	466.9	469.4	468.1	465.6	461.8	447.9	441.6	431.6
67.5°	410.1	408.8	407.6	412.6	407.6	408.8	410.1	405.0	396.2	391.2	377.2
70°	353.3	353.3	352.0	354.6	352.0	353.3	353.3	349.5	344.5	340.6	328.0
72.5°	292.7	291.5	296.5	292.7	296.5	291.5	292.7	291.5	289.0	285.2	272.6
75°	233.4	236.0	233.4	237.2	233.4	236.0	233.4	234.6	233.4	230.9	222.0
77.5°	177.9	180.4	177.9	177.9	177.9	180.4	177.9	179.2	179.2	179.2	171.6
80°	126.2	124.9	124.9	123.7	124.9	124.9	126.2	126.2	127.4	124.9	122.4
82.5°	80.8	79.5	79.5	82.0	79.5	79.5	80.8	82.0	79.5	79.5	79.5
85°	44.1	45.5	42.9	42.9	42.9	45.5	44.1	41.6	44.1	44.1	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	22.5	19.4
92.5°	56.2	54.1	45.1	36.1	45.1	54.1	56.2	79.7	111.1	126.7	111.3
95°	190.9	184.1	157.1	130.0	157.1	184.1	190.9	250.7	330.4	370.3	312.8
97.5°	440.8	427.9	376.4	324.8	376.4	427.9	440.8	478.6	529.0	554.2	458.2
100°	619.0	603.7	542.2	480.7	542.2	603.7	619.0	616.3	612.5	610.7	504.2
102.5°	771.2	758.0	705.4	652.7	705.4	758.0	771.2	723.0	658.9	626.8	518.8
105°	948.8	941.7	913.5	885.2	913.5	941.7	948.8	840.9	697.0	625.0	520.4
107.5°	1041.1	1042.9	1049.7	1056.6	1049.7	1042.9	1041.1	890.5	689.8	589.4	497.2
110°	1064.8	1072.2	1101.7	1131.2	1101.7	1072.2	1064.8	896.5	672.0	559.8	476.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1049.7	1061.1	1106.4	1151.6	1106.4	1061.1	1049.7	877.5	647.8	532.9	458.8
115°	998.5	1014.2	1077.0	1139.8	1077.0	1014.2	998.5	832.6	611.3	500.6	438.2
117.5°	927.8	945.2	1014.8	1084.4	1014.8	945.2	927.8	777.9	578.3	478.4	425.3
120°	880.1	897.0	964.6	1032.3	964.6	897.0	880.1	743.3	560.8	469.5	421.0
122.5°	832.5	849.2	915.8	982.6	915.8	849.2	832.5	709.2	544.8	462.7	418.7
125°	769.4	784.8	846.2	907.6	846.2	784.8	769.4	664.8	525.2	455.3	416.9
127.5°	718.8	731.8	783.6	835.4	783.6	731.8	718.8	629.0	509.1	449.1	415.8
130°	686.8	698.8	746.7	794.6	746.7	698.8	686.8	606.8	500.1	446.7	416.4
132.5°	659.6	670.3	713.2	756.1	713.2	670.3	659.6	588.0	492.4	444.6	416.9
135°	621.1	630.4	667.4	704.3	667.4	630.4	621.1	561.2	481.1	441.1	416.5
137.5°	592.7	600.2	630.5	660.8	630.5	600.2	592.7	542.0	474.3	440.5	419.1
140°	569.8	576.9	605.3	633.5	605.3	576.9	569.8	526.0	467.7	438.4	419.4
142.5°	553.9	560.0	584.3	608.6	584.3	560.0	553.9	515.4	464.1	438.4	421.0
145°	529.9	534.5	552.9	571.4	552.9	534.5	529.9	498.4	456.5	435.5	421.0
147.5°	509.8	513.6	528.9	544.2	528.9	513.6	509.8	485.0	452.0	435.5	423.8
150°	498.2	501.3	513.7	526.1	513.7	501.3	498.2	477.3	449.4	435.5	425.4
152.5°	489.1	491.3	500.7	510.1	500.7	491.3	489.1	471.2	447.4	435.5	426.3
155°	478.1	479.6	485.8	492.0	485.8	479.6	478.1	463.8	444.9	435.5	428.5
157.5°	468.6	469.7	474.1	478.4	474.1	469.7	468.6	457.5	442.8	435.5	430.7
160°	463.9	464.5	467.0	469.5	467.0	464.5	463.9	454.5	441.8	435.5	431.7
162.5°	459.5	460.0	462.4	464.8	462.4	460.0	459.5	451.4	440.8	435.5	432.7
165°	452.7	453.3	455.8	458.3	455.8	453.3	452.7	446.9	439.3	435.5	434.2
167.5°	449.7	450.0	451.0	452.1	451.0	450.0	449.7	446.0	440.9	438.4	437.4
170°	449.7	449.7	449.7	449.7	449.7	449.7	449.7	446.0	440.9	438.4	438.3
172.5°	447.3	447.1	446.2	445.2	446.2	447.1	447.3	444.4	440.4	438.4	438.4
175°	444.1	444.1	444.1	444.1	444.1	444.1	444.1	442.2	439.7	438.4	439.0
177.5°	443.5	443.2	442.2	441.1	442.2	443.2	443.5	442.0	440.0	439.0	439.5
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1317.3	1323.6	1327.4	1332.4	1345.0
5°	1266.8	1290.8	1298.4	1317.3	1340.1
7.5°	1155.8	1229.0	1249.1	1294.6	1329.9
10°	1048.5	1121.7	1157.1	1264.3	1317.3
12.5°	994.3	1037.2	1061.2	1211.3	1299.7
15°	960.3	990.5	1008.2	1140.7	1279.4
17.5°	933.7	955.2	967.8	1071.2	1251.7
20°	917.3	927.4	938.8	1020.8	1220.1
22.5°	905.9	899.6	908.5	985.5	1177.2
25°	898.4	874.4	884.5	957.7	1126.8
27.5°	904.7	851.7	855.5	932.5	1073.8
30°	905.9	824.0	825.2	905.9	1014.5
32.5°	897.1	794.9	796.2	873.2	947.6
35°	875.6	760.8	759.6	835.3	856.7
37.5°	846.6	724.3	724.3	793.7	757.0
40°	811.4	687.7	691.4	739.4	668.8
42.5°	768.4	648.5	653.6	667.4	603.2
45°	721.7	610.7	614.4	564.0	552.7
47.5°	670.0	571.6	572.8	468.1	536.2
50°	608.1	531.2	526.2	401.3	535.0
52.5°	553.9	487.0	471.9	363.4	485.8
55°	500.9	440.4	407.6	334.3	450.5
57.5°	454.2	379.8	348.3	300.3	442.9
60°	411.3	320.5	296.5	263.7	406.3
62.5°	376.0	276.4	271.3	238.5	368.4
65°	338.2	246.0	244.8	217.1	313.0
67.5°	301.6	225.9	224.6	196.8	238.5
70°	262.4	204.4	201.9	175.4	176.7
72.5°	222.0	180.4	177.9	157.8	146.4
75°	181.7	152.7	151.4	137.5	118.6
77.5°	142.6	121.1	123.7	111.1	87.1
80°	102.2	88.3	90.8	79.5	65.6
82.5°	68.1	58.1	60.5	50.4	44.1
85°	37.8	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	5.3	3.0
92.5°	80.3	57.1	52.0	32.0	11.8
95°	197.7	111.4	102.2	65.3	28.5
97.5°	266.3	122.2	114.1	81.7	49.2
100°	291.2	131.4	124.1	94.5	65.1
102.5°	302.6	140.6	133.7	106.3	78.8
105°	311.1	154.2	148.4	125.1	101.8
107.5°	312.8	174.4	168.9	147.3	125.5
110°	310.4	185.7	180.8	161.1	141.5



TEST NUMBER: P934885

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.5	199.2	194.5	175.9	157.2
115°	313.3	219.6	215.4	198.1	180.9
117.5°	319.2	239.5	235.6	219.9	204.3
120°	323.8	251.1	247.3	232.6	217.9
122.5°	330.6	264.6	260.9	246.1	231.2
125°	339.9	282.1	278.8	265.2	251.6
127.5°	349.1	299.0	295.6	281.9	268.3
130°	355.7	310.3	306.6	291.8	277.1
132.5°	361.2	319.4	315.7	301.0	286.3
135°	367.1	330.0	326.7	313.2	299.9
137.5°	376.0	343.7	340.4	327.1	313.8
140°	381.4	352.9	349.8	337.6	325.4
142.5°	385.9	359.7	356.8	345.5	334.2
145°	391.8	370.1	367.6	357.7	347.8
147.5°	400.5	383.1	380.7	371.0	361.5
150°	405.1	389.9	387.7	379.0	370.3
152.5°	408.1	394.3	392.7	386.1	379.5
155°	414.6	404.1	402.8	398.0	393.2
157.5°	421.1	413.9	412.8	408.0	403.2
160°	424.0	418.3	417.3	413.7	410.0
162.5°	427.2	423.1	422.4	419.6	416.9
165°	431.8	429.8	429.2	426.7	424.2
167.5°	435.3	433.7	433.4	432.1	431.0
170°	438.2	438.2	437.9	436.6	435.5
172.5°	438.4	438.4	438.3	438.2	437.9
175°	440.3	441.1	441.1	441.1	441.1
177.5°	440.4	441.1	441.1	441.1	441.1
180°	441.1	441.1	441.1	441.1	441.1



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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	13.96	14.87	14.88	15.80	17.00	16.76	17.66	17.67	18.60	19.80
	3H	14.44	15.25	15.37	16.20	17.42	18.10	18.91	19.03	19.85	21.08
	4H	14.64	15.40	15.58	16.35	17.59	18.54	19.31	19.48	20.25	21.49
	6H	14.76	15.47	15.71	16.42	17.67	18.82	19.52	19.77	20.48	21.73
	8H	14.76	15.43	15.72	16.41	17.65	18.89	19.56	19.85	20.53	21.78
	12H	14.73	15.37	15.70	16.34	17.61	18.92	19.57	19.89	20.53	21.80
4H	2H	14.99	15.76	15.94	16.71	17.94	17.18	17.94	18.12	18.89	20.13
	3H	16.02	16.66	16.98	17.64	18.89	18.68	19.32	19.63	20.29	21.54
	4H	16.30	16.89	17.27	17.86	19.13	19.20	19.78	20.17	20.76	22.03
	6H	16.43	16.93	17.41	17.93	19.20	19.56	20.06	20.54	21.06	22.33
	8H	16.44	16.91	17.42	17.90	19.18	19.66	20.13	20.64	21.12	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	16.75	17.22	17.74	18.21	19.50	19.33	19.80	20.31	20.79	22.07
	6H	17.02	17.41	18.02	18.44	19.72	19.76	20.15	20.77	21.18	22.46
	8H	17.06	17.40	18.08	18.42	19.73	19.91	20.25	20.92	21.27	22.57
	12H	17.05	17.35	18.07	18.36	19.71	20.00	20.30	21.02	21.31	22.66
12H	4H	16.76	17.18	17.76	18.19	19.48	19.30	19.72	20.30	20.73	22.02
	6H	17.08	17.42	18.09	18.44	19.74	19.76	20.10	20.77	21.12	22.42
	8H	17.15	17.45	18.16	18.46	19.81	19.91	20.22	20.93	21.23	22.58