

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: P933896

Luminaire Tested: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933896
REPORT IS A COMBINATION OF REPORTS P933676 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

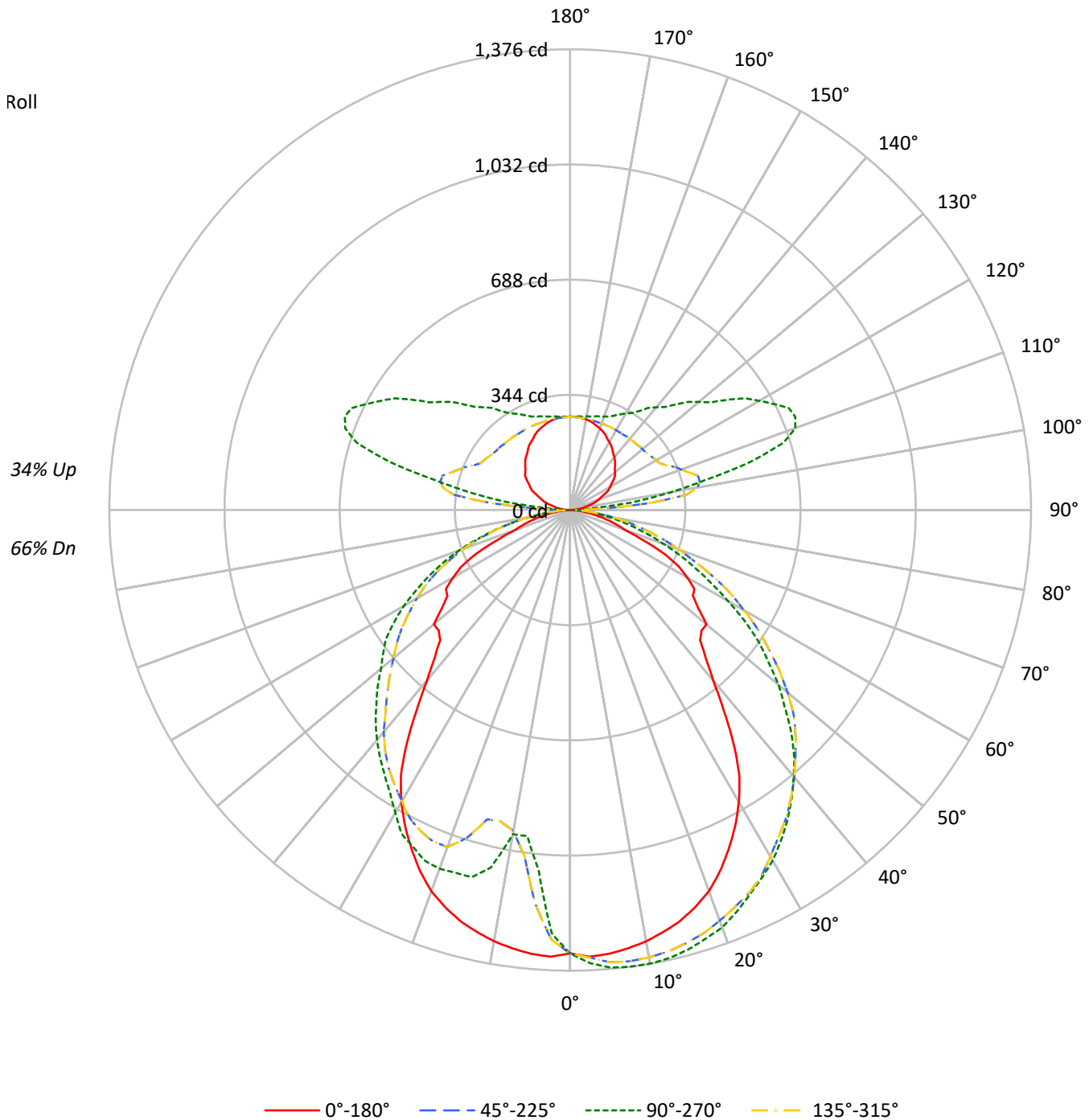
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5241.6 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 44
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				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	0
RCR																					
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6144	6144	6144	6144
5°	6190	6202	6190	4877
10°	6148	6109	6148	4367
15°	6081	5977	6081	4991
20°	5954	5820	5954	5001
25°	5694	5591	5694	4895
30°	5357	5402	5357	4663
35°	4776	5161	4776	4406
40°	3980	4878	3980	4214
45°	3556	4547	3556	3992
50°	3778	4153	3778	3768
55°	3554	3728	3554	3639
60°	3664	3166	3664	3333
65°	3321	2617	3321	2925
70°	2300	2086	2300	2452
75°	2018	1542	2018	1847
80°	1624	1019	1624	1109
85°	936	541	936	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5450 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	2.3
10°-20°	339.4	6.5
20°-30°	524.6	10.0
30°-40°	626.3	11.9
40°-50°	630.0	12.0
50°-60°	548.1	10.5
60°-70°	388.6	7.4
70°-80°	205.6	3.9
80°-90°	52.3	1.0
90°-100°	135.9	2.6
100°-110°	357.3	6.8
110°-120°	370.4	7.1
120°-130°	297.1	5.7
130°-140°	233.1	4.4
140°-150°	179.0	3.4
150°-160°	128.9	2.5
160°-170°	78.9	1.5
170°-180°	26.6	0.5
0°-30°	983.5	18.8
0°-40°	1609.8	30.7
0°-60°	2787.9	53.2
0°-90°	3434.4	65.5
90°-120°	863.6	16.5
90°-150°	1572.8	30.0
90°-180°	1807.0	34.5
0°-180°	5241.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1324	1324	1324	1324	1324	
5°	1330	1372	1330	1079	1330	126
15°	1270	1359	1270	1135	1270	357
25°	1119	1268	1119	1110	1119	514
35°	851	1131	851	966	851	526
45°	549	932	549	818	549	440
55°	447	688	447	672	447	411
65°	311	415	311	464	311	297
75°	118	197	118	236	118	124
85°	20	50	20	43	20	27
90°	2	7	2	7	2	2
95°	18	82	18	82	18	20
105°	64	559	64	559	64	68
115°	114	720	114	720	114	113
125°	159	574	159	574	159	141
135°	190	445	190	445	190	147
145°	220	361	220	361	220	138
155°	248	311	248	311	248	114
165°	268	290	268	290	268	76
175°	279	281	279	281	279	26
180°	279	279	279	279	279	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1335.4	1335.4	1343.0	1345.5	1345.5	1341.7	1338.0	1341.7	1353.0	1356.7	1355.5
5°	1330.5	1340.5	1354.3	1356.7	1359.3	1358.0	1355.5	1358.0	1370.6	1373.1	1374.3
7.5°	1320.4	1339.3	1356.7	1360.6	1364.3	1360.6	1359.3	1361.8	1374.3	1376.8	1376.8
10°	1307.9	1334.2	1354.3	1356.7	1360.6	1356.7	1356.7	1361.8	1374.3	1376.8	1378.0
12.5°	1290.3	1326.7	1345.5	1347.9	1353.0	1351.8	1350.5	1355.5	1368.0	1370.6	1370.6
15°	1270.3	1312.9	1330.5	1332.9	1341.7	1339.3	1339.3	1344.2	1358.0	1361.8	1360.6
17.5°	1242.8	1295.4	1315.4	1319.2	1325.4	1324.2	1325.4	1330.5	1343.0	1345.5	1346.7
20°	1211.4	1271.5	1295.4	1299.1	1305.4	1305.4	1305.4	1311.6	1324.2	1329.2	1329.2
22.5°	1168.8	1246.5	1271.5	1274.1	1281.6	1281.6	1284.1	1292.8	1304.1	1305.4	1305.4
25°	1118.7	1219.0	1240.3	1247.7	1255.3	1259.0	1262.8	1267.8	1271.5	1270.3	1271.5
27.5°	1066.2	1183.8	1211.4	1216.4	1226.4	1230.3	1235.2	1236.5	1237.7	1241.5	1239.0
30°	1007.2	1135.0	1176.4	1181.4	1197.7	1200.2	1195.1	1197.7	1203.9	1206.4	1209.0
32.5°	940.8	1062.3	1140.0	1151.3	1166.4	1158.8	1157.6	1161.3	1171.3	1171.3	1173.9
35°	850.6	1006.0	1106.2	1116.2	1127.5	1118.7	1123.8	1125.0	1131.3	1135.0	1133.8
37.5°	751.7	957.2	1071.1	1078.7	1087.5	1076.2	1083.6	1087.5	1092.4	1089.9	1089.9
40°	664.0	880.7	1029.8	1034.8	1042.3	1033.6	1041.0	1043.6	1046.1	1043.6	1042.3
42.5°	598.8	796.8	985.9	992.2	987.1	993.5	995.9	1001.0	997.2	992.2	992.2
45°	548.7	774.2	938.3	945.9	938.3	948.4	952.1	952.1	940.8	938.3	937.1
47.5°	532.5	729.1	890.8	890.8	886.9	899.5	905.8	897.0	885.7	882.0	882.0
50°	531.2	679.0	825.6	820.6	838.1	853.1	846.9	838.1	829.3	815.6	815.6
52.5°	482.3	617.7	741.7	760.5	788.0	796.8	786.7	778.0	763.0	756.6	751.7
55°	447.2	553.8	665.2	702.8	731.6	742.9	724.1	715.4	692.7	689.0	686.5
57.5°	439.7	461.0	595.1	642.7	677.7	676.5	665.2	648.9	630.2	626.4	625.1
60°	403.4	333.3	519.9	576.3	612.6	608.9	598.8	583.8	566.3	563.8	561.2
62.5°	365.8	241.8	434.7	498.6	549.9	548.7	539.9	517.4	504.8	498.6	493.6
65°	310.6	203.0	309.4	414.7	488.6	491.1	472.3	456.0	442.2	434.7	433.5
67.5°	236.8	165.4	209.2	345.8	429.7	427.2	403.4	395.9	378.4	374.6	367.1
70°	175.4	110.2	145.3	280.7	372.1	365.8	347.0	338.3	321.9	313.2	308.2
72.5°	145.3	88.9	106.5	218.0	313.2	305.7	289.4	279.4	265.6	258.1	253.0
75°	117.8	94.0	81.4	161.6	254.3	249.3	234.2	224.3	213.0	203.0	204.2
77.5°	86.5	87.7	65.1	119.0	201.7	194.2	185.4	172.9	167.8	157.8	157.8
80°	65.1	68.9	48.8	81.4	145.3	145.3	137.8	129.1	120.3	115.3	115.3
82.5°	43.8	43.8	36.3	51.4	99.0	95.2	90.2	87.7	82.7	80.1	80.1
85°	20.1	25.0	22.5	31.3	53.9	56.4	56.4	53.9	52.6	50.2	51.4
87.5°	6.3	11.3	13.8	17.6	27.6	28.9	30.1	30.1	30.1	31.3	31.3
90°	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4	7.1	7.1
92.5°	7.5	20.2	33.0	36.1	50.8	70.3	80.0	70.1	50.4	35.6	34.2
95°	17.9	41.2	64.5	70.3	124.9	197.6	234.1	208.8	158.5	120.7	116.4
97.5°	31.1	51.7	72.1	77.2	168.2	289.5	350.2	334.4	302.5	278.6	270.5
100°	41.2	59.8	78.4	83.0	184.0	318.6	385.9	387.1	389.5	391.3	381.5
102.5°	49.8	67.2	84.5	88.8	191.3	327.8	396.1	416.4	456.9	487.4	479.0
105°	64.4	79.1	93.9	97.5	196.7	328.9	395.0	440.5	531.4	599.6	595.1
107.5°	79.3	93.0	106.8	110.2	197.6	314.2	372.5	435.9	562.8	658.0	659.1
110°	89.5	101.8	114.2	117.3	196.1	301.2	353.8	424.7	566.6	672.9	677.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	99.4	111.1	122.9	125.9	196.2	289.9	336.8	409.4	554.5	663.4	670.6
115°	114.3	125.2	136.1	138.8	198.0	276.9	316.3	386.3	526.2	631.1	641.0
117.5°	129.1	139.0	148.9	151.4	201.7	268.8	302.3	365.5	491.7	586.4	597.4
120°	137.7	147.0	156.4	158.7	204.7	266.1	296.7	354.4	469.7	556.2	566.8
122.5°	146.1	155.5	164.9	167.3	209.0	264.6	292.4	344.4	448.2	526.1	536.7
125°	159.1	167.7	176.2	178.3	214.8	263.5	287.8	331.9	420.1	486.2	496.0
127.5°	169.5	178.1	186.8	188.9	220.6	262.7	283.8	321.8	397.5	454.3	462.5
130°	175.1	184.5	193.7	196.0	224.8	263.2	282.3	316.1	383.5	434.0	441.6
132.5°	180.9	190.3	199.5	201.8	228.3	263.5	281.0	311.2	371.5	416.8	423.7
135°	189.5	198.0	206.5	208.7	232.0	263.2	278.8	304.1	354.6	392.6	398.4
137.5°	198.3	206.7	215.1	217.2	237.6	264.8	278.4	299.8	342.5	374.5	379.3
140°	205.6	213.3	221.1	223.0	241.1	265.1	277.1	295.6	332.5	360.2	364.6
142.5°	211.3	218.4	225.6	227.3	244.0	266.1	277.1	293.4	325.8	350.1	353.9
145°	219.9	226.1	232.3	233.9	247.7	266.1	275.2	288.5	315.0	334.9	337.8
147.5°	228.5	234.5	240.6	242.1	253.1	267.9	275.2	285.7	306.5	322.1	324.6
150°	234.1	239.6	245.0	246.4	256.0	268.8	275.2	284.0	301.7	314.9	316.8
152.5°	239.9	244.0	248.2	249.2	257.9	269.5	275.2	282.7	297.8	309.1	310.6
155°	248.4	251.5	254.6	255.4	262.0	270.9	275.2	281.2	293.2	302.1	303.1
157.5°	254.8	257.8	260.8	261.5	266.1	272.2	275.2	279.9	289.2	296.2	296.8
160°	259.1	261.4	263.8	264.3	268.0	272.8	275.2	279.3	287.2	293.2	293.6
162.5°	263.4	265.2	266.8	267.3	269.9	273.5	275.2	278.6	285.3	290.4	290.8
165°	268.2	269.7	271.3	271.7	272.9	274.5	275.2	277.7	282.4	286.1	286.5
167.5°	272.4	273.2	273.9	274.1	275.2	276.5	277.1	278.7	281.9	284.2	284.4
170°	275.2	276.0	276.7	276.9	277.0	277.1	277.1	278.7	281.9	284.2	284.2
172.5°	276.7	276.9	277.1	277.1	277.1	277.1	277.1	278.3	280.9	282.7	282.5
175°	278.8	278.8	278.8	278.8	278.2	277.5	277.1	277.9	279.5	280.7	280.7
177.5°	278.8	278.8	278.8	278.8	278.3	277.8	277.5	278.1	279.4	280.3	280.1
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1358.0	1354.3	1358.0	1355.5	1356.7	1353.0	1341.7	1338.0	1341.7	1345.5	1345.5
5°	1374.3	1371.8	1374.3	1374.3	1373.1	1370.6	1358.0	1355.5	1358.0	1359.3	1356.7
7.5°	1379.3	1375.6	1379.3	1376.8	1376.8	1374.3	1361.8	1359.3	1360.6	1364.3	1360.6
10°	1379.3	1375.6	1379.3	1378.0	1376.8	1374.3	1361.8	1356.7	1356.7	1360.6	1356.7
12.5°	1373.1	1370.6	1373.1	1370.6	1370.6	1368.0	1355.5	1350.5	1351.8	1353.0	1347.9
15°	1363.0	1359.3	1363.0	1360.6	1361.8	1358.0	1344.2	1339.3	1339.3	1341.7	1332.9
17.5°	1347.9	1343.0	1347.9	1346.7	1345.5	1343.0	1330.5	1325.4	1324.2	1325.4	1319.2
20°	1330.5	1326.7	1330.5	1329.2	1329.2	1324.2	1311.6	1305.4	1305.4	1305.4	1299.1
22.5°	1302.9	1299.1	1302.9	1305.4	1305.4	1304.1	1292.8	1284.1	1281.6	1281.6	1274.1
25°	1271.5	1267.8	1271.5	1271.5	1270.3	1271.5	1267.8	1262.8	1259.0	1255.3	1247.7
27.5°	1241.5	1239.0	1241.5	1239.0	1241.5	1237.7	1236.5	1235.2	1230.3	1226.4	1216.4
30°	1211.4	1209.0	1211.4	1209.0	1206.4	1203.9	1197.7	1195.1	1200.2	1197.7	1181.4
32.5°	1173.9	1171.3	1173.9	1173.9	1171.3	1171.3	1161.3	1157.6	1158.8	1166.4	1151.3
35°	1135.0	1131.3	1135.0	1133.8	1135.0	1131.3	1125.0	1123.8	1118.7	1127.5	1116.2
37.5°	1089.9	1086.1	1089.9	1089.9	1089.9	1092.4	1087.5	1083.6	1076.2	1087.5	1078.7
40°	1043.6	1038.5	1043.6	1042.3	1043.6	1046.1	1043.6	1041.0	1033.6	1042.3	1034.8
42.5°	991.0	989.7	991.0	992.2	992.2	997.2	1001.0	995.9	993.5	987.1	992.2
45°	934.6	932.0	934.6	937.1	938.3	940.8	952.1	952.1	948.4	938.3	945.9
47.5°	874.4	868.2	874.4	882.0	882.0	885.7	897.0	905.8	899.5	886.9	890.8
50°	810.5	811.8	810.5	815.6	815.6	829.3	838.1	846.9	853.1	838.1	820.6
52.5°	747.9	746.6	747.9	751.7	756.6	763.0	778.0	786.7	796.8	788.0	760.5
55°	685.3	687.8	685.3	686.5	689.0	692.7	715.4	724.1	742.9	731.6	702.8
57.5°	622.6	618.9	622.6	625.1	626.4	630.2	648.9	665.2	676.5	677.7	642.7
60°	549.9	545.0	549.9	561.2	563.8	566.3	583.8	598.8	608.9	612.6	576.3
62.5°	486.1	477.3	486.1	493.6	498.6	504.8	517.4	539.9	548.7	549.9	498.6
65°	418.4	414.7	418.4	433.5	434.7	442.2	456.0	472.3	491.1	488.6	414.7
67.5°	357.1	357.1	357.1	367.1	374.6	378.4	395.9	403.4	427.2	429.7	345.8
70°	300.7	299.4	300.7	308.2	313.2	321.9	338.3	347.0	365.8	372.1	280.7
72.5°	246.8	245.5	246.8	253.0	258.1	265.6	279.4	289.4	305.7	313.2	218.0
75°	199.2	196.7	199.2	204.2	203.0	213.0	224.3	234.2	249.3	254.3	161.6
77.5°	152.8	152.8	152.8	157.8	157.8	167.8	172.9	185.4	194.2	201.7	119.0
80°	114.0	112.7	114.0	115.3	115.3	120.3	129.1	137.8	145.3	145.3	81.4
82.5°	80.1	77.7	80.1	80.1	80.1	82.7	87.7	90.2	95.2	99.0	51.4
85°	50.2	50.2	50.2	51.4	50.2	52.6	53.9	56.4	56.4	53.9	31.3
87.5°	32.6	31.3	32.6	31.3	31.3	30.1	30.1	30.1	28.9	27.6	17.6
90°	7.1	7.1	7.1	7.1	7.1	9.4	12.6	14.2	12.2	8.2	5.2
92.5°	28.5	22.8	28.5	34.2	35.6	50.4	70.1	80.0	70.3	50.8	36.1
95°	99.3	82.1	99.3	116.4	120.7	158.5	208.8	234.1	197.6	124.9	70.3
97.5°	237.8	205.2	237.8	270.5	278.6	302.5	334.4	350.2	289.5	168.2	77.2
100°	342.7	303.8	342.7	381.5	391.3	389.5	387.1	385.9	318.6	184.0	83.0
102.5°	445.8	412.5	445.8	479.0	487.4	456.9	416.4	396.1	327.8	191.3	88.8
105°	577.3	559.4	577.3	595.1	599.6	531.4	440.5	395.0	328.9	196.7	97.5
107.5°	663.4	667.7	663.4	659.1	658.0	562.8	435.9	372.5	314.2	197.6	110.2
110°	696.2	714.9	696.2	677.6	672.9	566.6	424.7	353.8	301.2	196.1	117.3



TEST NUMBER: P933896

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	699.2	727.8	699.2	670.6	663.4	554.5	409.4	336.8	289.9	196.2	125.9
115°	680.7	720.3	680.7	641.0	631.1	526.2	386.3	316.3	276.9	198.0	138.8
117.5°	641.4	685.4	641.4	597.4	586.4	491.7	365.5	302.3	268.8	201.7	151.4
120°	609.6	652.4	609.6	566.8	556.2	469.7	354.4	296.7	266.1	204.7	158.7
122.5°	578.8	620.9	578.8	536.7	526.1	448.2	344.4	292.4	264.6	209.0	167.3
125°	534.8	573.7	534.8	496.0	486.2	420.1	331.9	287.8	263.5	214.8	178.3
127.5°	495.2	528.0	495.2	462.5	454.3	397.5	321.8	283.8	262.7	220.6	188.9
130°	471.9	502.1	471.9	441.6	434.0	383.5	316.1	282.3	263.2	224.8	196.0
132.5°	450.7	477.8	450.7	423.7	416.8	371.5	311.2	281.0	263.5	228.3	201.8
135°	421.7	445.1	421.7	398.4	392.6	354.6	304.1	278.8	263.2	232.0	208.7
137.5°	398.4	417.6	398.4	379.3	374.5	342.5	299.8	278.4	264.8	237.6	217.2
140°	382.5	400.4	382.5	364.6	360.2	332.5	295.6	277.1	265.1	241.1	223.0
142.5°	369.3	384.6	369.3	353.9	350.1	325.8	293.4	277.1	266.1	244.0	227.3
145°	349.5	361.1	349.5	337.8	334.9	315.0	288.5	275.2	266.1	247.7	233.9
147.5°	334.2	343.9	334.2	324.6	322.1	306.5	285.7	275.2	267.9	253.1	242.1
150°	324.7	332.5	324.7	316.8	314.9	301.7	284.0	275.2	268.8	256.0	246.4
152.5°	316.4	322.3	316.4	310.6	309.1	297.8	282.7	275.2	269.5	257.9	249.2
155°	307.0	310.9	307.0	303.1	302.1	293.2	281.2	275.2	270.9	262.0	255.4
157.5°	299.6	302.3	299.6	296.8	296.2	289.2	279.9	275.2	272.2	266.1	261.5
160°	295.1	296.7	295.1	293.6	293.2	287.2	279.3	275.2	272.8	268.0	264.3
162.5°	292.2	293.7	292.2	290.8	290.4	285.3	278.6	275.2	273.5	269.9	267.3
165°	288.0	289.6	288.0	286.5	286.1	282.4	277.7	275.2	274.5	272.9	271.7
167.5°	285.1	285.7	285.1	284.4	284.2	281.9	278.7	277.1	276.5	275.2	274.1
170°	284.2	284.2	284.2	284.2	284.2	281.9	278.7	277.1	277.1	277.0	276.9
172.5°	282.0	281.4	282.0	282.5	282.7	280.9	278.3	277.1	277.1	277.1	277.1
175°	280.7	280.7	280.7	280.7	280.7	279.5	277.9	277.1	277.5	278.2	278.8
177.5°	279.5	278.8	279.5	280.1	280.3	279.4	278.1	277.5	277.8	278.3	278.8
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



TEST NUMBER: P933896

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1343.0	1335.4	1335.4	1322.9	1318.0	1314.1	1307.9	1289.1	1284.1	1279.1	1286.6
5°	1354.3	1340.5	1330.5	1307.9	1289.1	1281.6	1257.8	1212.7	1182.6	1160.0	1147.5
7.5°	1356.7	1339.3	1320.4	1285.4	1240.3	1220.2	1147.5	1064.9	1042.3	1022.3	1009.7
10°	1354.3	1334.2	1307.9	1255.3	1148.8	1113.7	1041.0	987.1	973.4	969.7	973.4
12.5°	1345.5	1326.7	1290.3	1202.7	1053.6	1029.8	987.1	955.9	953.3	959.6	993.5
15°	1330.5	1312.9	1270.3	1132.5	1001.0	983.4	953.3	942.1	955.9	999.8	1101.2
17.5°	1315.4	1295.4	1242.8	1063.6	960.9	948.4	927.1	949.6	1027.3	1086.1	1120.0
20°	1295.4	1271.5	1211.4	1013.5	932.0	920.8	910.7	1012.3	1071.1	1092.4	1111.2
22.5°	1271.5	1246.5	1168.8	978.5	902.0	893.3	899.5	1047.3	1071.1	1086.1	1102.4
25°	1240.3	1219.0	1118.7	950.9	878.2	868.2	892.0	1043.6	1057.4	1061.1	1093.7
27.5°	1211.4	1183.8	1066.2	925.8	849.4	845.6	898.2	1027.3	1037.3	1041.0	1076.2
30°	1176.4	1135.0	1007.2	899.5	819.3	818.1	899.5	1007.2	1004.7	1014.8	1049.8
32.5°	1140.0	1062.3	940.8	866.9	790.5	789.2	890.8	977.2	974.6	988.5	1014.8
35°	1106.2	1006.0	850.6	829.3	754.2	755.4	869.5	942.1	943.3	955.9	972.2
37.5°	1071.1	957.2	751.7	788.0	719.1	719.1	840.6	909.5	907.0	910.7	933.3
40°	1029.8	880.7	664.0	734.1	686.5	682.8	805.6	874.4	865.6	864.4	895.7
42.5°	985.9	796.8	598.8	662.8	648.9	643.9	763.0	831.8	815.6	819.3	859.4
45°	938.3	774.2	548.7	560.0	610.1	606.4	716.6	783.0	771.7	781.8	823.0
47.5°	890.8	729.1	532.5	464.8	568.8	567.5	665.2	735.3	729.1	739.2	783.0
50°	825.6	679.0	531.2	398.4	522.4	527.4	603.8	689.0	689.0	697.8	744.1
52.5°	741.7	617.7	482.3	360.8	468.5	483.5	549.9	648.9	651.5	660.2	701.5
55°	665.2	553.8	447.2	331.9	404.6	437.2	497.4	607.6	612.6	621.4	658.9
57.5°	595.1	461.0	439.7	298.1	345.8	377.1	451.0	567.5	570.0	577.5	613.8
60°	519.9	333.3	403.4	261.8	294.4	318.2	408.4	519.9	528.6	533.7	565.0
62.5°	434.7	241.8	365.8	236.8	269.4	274.3	373.3	474.8	486.1	489.9	508.7
65°	309.4	203.0	310.6	215.5	243.0	244.3	335.8	428.4	438.5	444.8	458.5
67.5°	209.2	165.4	236.8	195.4	223.0	224.3	299.4	374.6	388.4	393.4	402.2
70°	145.3	110.2	175.4	174.1	200.4	203.0	260.6	325.7	338.3	342.0	347.0
72.5°	106.5	88.9	145.3	156.6	176.6	179.1	220.5	270.6	283.1	286.9	289.4
75°	81.4	94.0	117.8	136.6	150.4	151.6	180.4	220.5	229.3	231.7	233.0
77.5°	65.1	87.7	86.5	110.2	122.7	120.3	141.6	170.4	177.9	177.9	177.9
80°	48.8	68.9	65.1	78.9	90.2	87.7	101.4	121.5	124.0	126.6	125.2
82.5°	36.3	43.8	43.8	50.2	60.1	57.6	67.6	78.9	78.9	78.9	81.4
85°	22.5	25.0	20.1	26.3	33.8	32.6	37.5	42.6	43.8	43.8	41.4
87.5°	13.8	11.3	6.3	10.0	15.0	15.0	17.6	18.8	17.6	17.6	17.6
90°	4.9	3.4	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4
92.5°	33.0	20.2	7.5	20.2	33.0	36.1	50.8	70.3	80.0	70.1	50.4
95°	64.5	41.2	17.9	41.2	64.5	70.3	124.9	197.6	234.1	208.8	158.5
97.5°	72.1	51.7	31.1	51.7	72.1	77.2	168.2	289.5	350.2	334.4	302.5
100°	78.4	59.8	41.2	59.8	78.4	83.0	184.0	318.6	385.9	387.1	389.5
102.5°	84.5	67.2	49.8	67.2	84.5	88.8	191.3	327.8	396.1	416.4	456.9
105°	93.9	79.1	64.4	79.1	93.9	97.5	196.7	328.9	395.0	440.5	531.4
107.5°	106.8	93.0	79.3	93.0	106.8	110.2	197.6	314.2	372.5	435.9	562.8
110°	114.2	101.8	89.5	101.8	114.2	117.3	196.1	301.2	353.8	424.7	566.6



TEST NUMBER: P933896

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	122.9	111.1	99.4	111.1	122.9	125.9	196.2	289.9	336.8	409.4	554.5
115°	136.1	125.2	114.3	125.2	136.1	138.8	198.0	276.9	316.3	386.3	526.2
117.5°	148.9	139.0	129.1	139.0	148.9	151.4	201.7	268.8	302.3	365.5	491.7
120°	156.4	147.0	137.7	147.0	156.4	158.7	204.7	266.1	296.7	354.4	469.7
122.5°	164.9	155.5	146.1	155.5	164.9	167.3	209.0	264.6	292.4	344.4	448.2
125°	176.2	167.7	159.1	167.7	176.2	178.3	214.8	263.5	287.8	331.9	420.1
127.5°	186.8	178.1	169.5	178.1	186.8	188.9	220.6	262.7	283.8	321.8	397.5
130°	193.7	184.5	175.1	184.5	193.7	196.0	224.8	263.2	282.3	316.1	383.5
132.5°	199.5	190.3	180.9	190.3	199.5	201.8	228.3	263.5	281.0	311.2	371.5
135°	206.5	198.0	189.5	198.0	206.5	208.7	232.0	263.2	278.8	304.1	354.6
137.5°	215.1	206.7	198.3	206.7	215.1	217.2	237.6	264.8	278.4	299.8	342.5
140°	221.1	213.3	205.6	213.3	221.1	223.0	241.1	265.1	277.1	295.6	332.5
142.5°	225.6	218.4	211.3	218.4	225.6	227.3	244.0	266.1	277.1	293.4	325.8
145°	232.3	226.1	219.9	226.1	232.3	233.9	247.7	266.1	275.2	288.5	315.0
147.5°	240.6	234.5	228.5	234.5	240.6	242.1	253.1	267.9	275.2	285.7	306.5
150°	245.0	239.6	234.1	239.6	245.0	246.4	256.0	268.8	275.2	284.0	301.7
152.5°	248.2	244.0	239.9	244.0	248.2	249.2	257.9	269.5	275.2	282.7	297.8
155°	254.6	251.5	248.4	251.5	254.6	255.4	262.0	270.9	275.2	281.2	293.2
157.5°	260.8	257.8	254.8	257.8	260.8	261.5	266.1	272.2	275.2	279.9	289.2
160°	263.8	261.4	259.1	261.4	263.8	264.3	268.0	272.8	275.2	279.3	287.2
162.5°	266.8	265.2	263.4	265.2	266.8	267.3	269.9	273.5	275.2	278.6	285.3
165°	271.3	269.7	268.2	269.7	271.3	271.7	272.9	274.5	275.2	277.7	282.4
167.5°	273.9	273.2	272.4	273.2	273.9	274.1	275.2	276.5	277.1	278.7	281.9
170°	276.7	276.0	275.2	276.0	276.7	276.9	277.0	277.1	277.1	278.7	281.9
172.5°	277.1	276.9	276.7	276.9	277.1	277.1	277.1	277.1	277.1	278.3	280.9
175°	278.8	278.8	278.8	278.8	278.8	278.8	278.2	277.5	277.1	277.9	279.5
177.5°	278.8	278.8	278.8	278.8	278.8	278.8	278.3	277.8	277.5	278.1	279.4
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



TEST NUMBER: P933896

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1277.8	1274.1	1279.1	1265.3	1279.1	1274.1	1277.8	1286.6	1279.1	1284.1	1289.1
5°	1121.3	1115.0	1094.9	1078.7	1094.9	1115.0	1121.3	1147.5	1160.0	1182.6	1212.7
7.5°	1002.2	997.2	992.2	982.2	992.2	997.2	1002.2	1009.7	1022.3	1042.3	1064.9
10°	975.9	977.2	984.7	983.4	984.7	977.2	975.9	973.4	969.7	973.4	987.1
12.5°	1043.6	1054.9	1096.1	1093.7	1096.1	1054.9	1043.6	993.5	959.6	953.3	955.9
15°	1121.3	1125.0	1133.8	1135.0	1133.8	1125.0	1121.3	1101.2	999.8	955.9	942.1
17.5°	1128.7	1130.0	1136.3	1136.3	1136.3	1130.0	1128.7	1120.0	1086.1	1027.3	949.6
20°	1122.5	1125.0	1137.5	1140.0	1137.5	1125.0	1122.5	1111.2	1092.4	1071.1	1012.3
22.5°	1120.0	1125.0	1135.0	1133.8	1135.0	1125.0	1120.0	1102.4	1086.1	1071.1	1047.3
25°	1107.4	1107.4	1108.8	1110.0	1108.8	1107.4	1107.4	1093.7	1061.1	1057.4	1043.6
27.5°	1081.1	1083.6	1091.2	1089.9	1091.2	1083.6	1081.1	1076.2	1041.0	1037.3	1027.3
30°	1057.4	1054.9	1048.6	1043.6	1048.6	1054.9	1057.4	1049.8	1014.8	1004.7	1007.2
32.5°	1017.2	1011.0	1004.7	1001.0	1004.7	1011.0	1017.2	1014.8	988.5	974.6	977.2
35°	969.7	970.9	969.7	965.8	969.7	970.9	969.7	972.2	955.9	943.3	942.1
37.5°	935.9	938.3	937.1	932.0	937.1	938.3	935.9	933.3	910.7	907.0	909.5
40°	900.7	902.0	900.7	897.0	900.7	902.0	900.7	895.7	864.4	865.6	874.4
42.5°	866.9	865.6	861.9	859.4	861.9	865.6	866.9	859.4	819.3	815.6	831.8
45°	828.1	829.3	821.8	818.1	821.8	829.3	828.1	823.0	781.8	771.7	783.0
47.5°	789.2	789.2	783.0	779.2	783.0	789.2	789.2	783.0	739.2	729.1	735.3
50°	747.9	746.6	737.9	736.6	737.9	746.6	747.9	744.1	697.8	689.0	689.0
52.5°	700.3	700.3	701.5	704.0	701.5	700.3	700.3	701.5	660.2	651.5	648.9
55°	658.9	660.2	669.0	671.5	669.0	660.2	658.9	658.9	621.4	612.6	607.6
57.5°	616.3	616.3	622.6	622.6	622.6	616.3	616.3	613.8	577.5	570.0	567.5
60°	567.5	570.0	575.1	573.8	575.1	570.0	567.5	565.0	533.7	528.6	519.9
62.5°	516.1	518.7	519.9	517.4	519.9	518.7	516.1	508.7	489.9	486.1	474.8
65°	462.2	464.8	466.1	463.5	466.1	464.8	462.2	458.5	444.8	438.5	428.4
67.5°	407.1	405.9	404.6	409.7	404.6	405.9	407.1	402.2	393.4	388.4	374.6
70°	350.8	350.8	349.5	352.0	349.5	350.8	350.8	347.0	342.0	338.3	325.7
72.5°	290.7	289.4	294.4	290.7	294.4	289.4	290.7	289.4	286.9	283.1	270.6
75°	231.7	234.2	231.7	235.6	231.7	234.2	231.7	233.0	231.7	229.3	220.5
77.5°	176.6	179.1	176.6	176.6	176.6	179.1	176.6	177.9	177.9	177.9	170.4
80°	125.2	124.0	124.0	122.7	124.0	124.0	125.2	125.2	126.6	124.0	121.5
82.5°	80.1	78.9	78.9	81.4	78.9	78.9	80.1	81.4	78.9	78.9	78.9
85°	43.8	45.1	42.6	42.6	42.6	45.1	43.8	41.4	43.8	43.8	42.6
87.5°	16.3	15.0	15.0	15.0	15.0	15.0	16.3	17.6	17.6	17.6	18.8
90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.4	12.6	14.2	12.2
92.5°	35.6	34.2	28.5	22.8	28.5	34.2	35.6	50.4	70.1	80.0	70.3
95°	120.7	116.4	99.3	82.1	99.3	116.4	120.7	158.5	208.8	234.1	197.6
97.5°	278.6	270.5	237.8	205.2	237.8	270.5	278.6	302.5	334.4	350.2	289.5
100°	391.3	381.5	342.7	303.8	342.7	381.5	391.3	389.5	387.1	385.9	318.6
102.5°	487.4	479.0	445.8	412.5	445.8	479.0	487.4	456.9	416.4	396.1	327.8
105°	599.6	595.1	577.3	559.4	577.3	595.1	599.6	531.4	440.5	395.0	328.9
107.5°	658.0	659.1	663.4	667.7	663.4	659.1	658.0	562.8	435.9	372.5	314.2
110°	672.9	677.6	696.2	714.9	696.2	677.6	672.9	566.6	424.7	353.8	301.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	663.4	670.6	699.2	727.8	699.2	670.6	663.4	554.5	409.4	336.8	289.9
115°	631.1	641.0	680.7	720.3	680.7	641.0	631.1	526.2	386.3	316.3	276.9
117.5°	586.4	597.4	641.4	685.4	641.4	597.4	586.4	491.7	365.5	302.3	268.8
120°	556.2	566.8	609.6	652.4	609.6	566.8	556.2	469.7	354.4	296.7	266.1
122.5°	526.1	536.7	578.8	620.9	578.8	536.7	526.1	448.2	344.4	292.4	264.6
125°	486.2	496.0	534.8	573.7	534.8	496.0	486.2	420.1	331.9	287.8	263.5
127.5°	454.3	462.5	495.2	528.0	495.2	462.5	454.3	397.5	321.8	283.8	262.7
130°	434.0	441.6	471.9	502.1	471.9	441.6	434.0	383.5	316.1	282.3	263.2
132.5°	416.8	423.7	450.7	477.8	450.7	423.7	416.8	371.5	311.2	281.0	263.5
135°	392.6	398.4	421.7	445.1	421.7	398.4	392.6	354.6	304.1	278.8	263.2
137.5°	374.5	379.3	398.4	417.6	398.4	379.3	374.5	342.5	299.8	278.4	264.8
140°	360.2	364.6	382.5	400.4	382.5	364.6	360.2	332.5	295.6	277.1	265.1
142.5°	350.1	353.9	369.3	384.6	369.3	353.9	350.1	325.8	293.4	277.1	266.1
145°	334.9	337.8	349.5	361.1	349.5	337.8	334.9	315.0	288.5	275.2	266.1
147.5°	322.1	324.6	334.2	343.9	334.2	324.6	322.1	306.5	285.7	275.2	267.9
150°	314.9	316.8	324.7	332.5	324.7	316.8	314.9	301.7	284.0	275.2	268.8
152.5°	309.1	310.6	316.4	322.3	316.4	310.6	309.1	297.8	282.7	275.2	269.5
155°	302.1	303.1	307.0	310.9	307.0	303.1	302.1	293.2	281.2	275.2	270.9
157.5°	296.2	296.8	299.6	302.3	299.6	296.8	296.2	289.2	279.9	275.2	272.2
160°	293.2	293.6	295.1	296.7	295.1	293.6	293.2	287.2	279.3	275.2	272.8
162.5°	290.4	290.8	292.2	293.7	292.2	290.8	290.4	285.3	278.6	275.2	273.5
165°	286.1	286.5	288.0	289.6	288.0	286.5	286.1	282.4	277.7	275.2	274.5
167.5°	284.2	284.4	285.1	285.7	285.1	284.4	284.2	281.9	278.7	277.1	276.5
170°	284.2	284.2	284.2	284.2	284.2	284.2	284.2	281.9	278.7	277.1	277.1
172.5°	282.7	282.5	282.0	281.4	282.0	282.5	282.7	280.9	278.3	277.1	277.1
175°	280.7	280.7	280.7	280.7	280.7	280.7	280.7	279.5	277.9	277.1	277.5
177.5°	280.3	280.1	279.5	278.8	279.5	280.1	280.3	279.4	278.1	277.5	277.8
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1307.9	1314.1	1318.0	1322.9	1335.4
5°	1257.8	1281.6	1289.1	1307.9	1330.5
7.5°	1147.5	1220.2	1240.3	1285.4	1320.4
10°	1041.0	1113.7	1148.8	1255.3	1307.9
12.5°	987.1	1029.8	1053.6	1202.7	1290.3
15°	953.3	983.4	1001.0	1132.5	1270.3
17.5°	927.1	948.4	960.9	1063.6	1242.8
20°	910.7	920.8	932.0	1013.5	1211.4
22.5°	899.5	893.3	902.0	978.5	1168.8
25°	892.0	868.2	878.2	950.9	1118.7
27.5°	898.2	845.6	849.4	925.8	1066.2
30°	899.5	818.1	819.3	899.5	1007.2
32.5°	890.8	789.2	790.5	866.9	940.8
35°	869.5	755.4	754.2	829.3	850.6
37.5°	840.6	719.1	719.1	788.0	751.7
40°	805.6	682.8	686.5	734.1	664.0
42.5°	763.0	643.9	648.9	662.8	598.8
45°	716.6	606.4	610.1	560.0	548.7
47.5°	665.2	567.5	568.8	464.8	532.5
50°	603.8	527.4	522.4	398.4	531.2
52.5°	549.9	483.5	468.5	360.8	482.3
55°	497.4	437.2	404.6	331.9	447.2
57.5°	451.0	377.1	345.8	298.1	439.7
60°	408.4	318.2	294.4	261.8	403.4
62.5°	373.3	274.3	269.4	236.8	365.8
65°	335.8	244.3	243.0	215.5	310.6
67.5°	299.4	224.3	223.0	195.4	236.8
70°	260.6	203.0	200.4	174.1	175.4
72.5°	220.5	179.1	176.6	156.6	145.3
75°	180.4	151.6	150.4	136.6	117.8
77.5°	141.6	120.3	122.7	110.2	86.5
80°	101.4	87.7	90.2	78.9	65.1
82.5°	67.6	57.6	60.1	50.2	43.8
85°	37.5	32.6	33.8	26.3	20.1
87.5°	17.6	15.0	15.0	10.0	6.3
90°	8.2	5.2	4.9	3.4	1.9
92.5°	50.8	36.1	33.0	20.2	7.5
95°	124.9	70.3	64.5	41.2	17.9
97.5°	168.2	77.2	72.1	51.7	31.1
100°	184.0	83.0	78.4	59.8	41.2
102.5°	191.3	88.8	84.5	67.2	49.8
105°	196.7	97.5	93.9	79.1	64.4
107.5°	197.6	110.2	106.8	93.0	79.3
110°	196.1	117.3	114.2	101.8	89.5



TEST NUMBER: P933896

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	196.2	125.9	122.9	111.1	99.4
115°	198.0	138.8	136.1	125.2	114.3
117.5°	201.7	151.4	148.9	139.0	129.1
120°	204.7	158.7	156.4	147.0	137.7
122.5°	209.0	167.3	164.9	155.5	146.1
125°	214.8	178.3	176.2	167.7	159.1
127.5°	220.6	188.9	186.8	178.1	169.5
130°	224.8	196.0	193.7	184.5	175.1
132.5°	228.3	201.8	199.5	190.3	180.9
135°	232.0	208.7	206.5	198.0	189.5
137.5°	237.6	217.2	215.1	206.7	198.3
140°	241.1	223.0	221.1	213.3	205.6
142.5°	244.0	227.3	225.6	218.4	211.3
145°	247.7	233.9	232.3	226.1	219.9
147.5°	253.1	242.1	240.6	234.5	228.5
150°	256.0	246.4	245.0	239.6	234.1
152.5°	257.9	249.2	248.2	244.0	239.9
155°	262.0	255.4	254.6	251.5	248.4
157.5°	266.1	261.5	260.8	257.8	254.8
160°	268.0	264.3	263.8	261.4	259.1
162.5°	269.9	267.3	266.8	265.2	263.4
165°	272.9	271.7	271.3	269.7	268.2
167.5°	275.2	274.1	273.9	273.2	272.4
170°	277.0	276.9	276.7	276.0	275.2
172.5°	277.1	277.1	277.1	276.9	276.7
175°	278.2	278.8	278.8	278.8	278.8
177.5°	278.3	278.8	278.8	278.8	278.8
180°	278.8	278.8	278.8	278.8	278.8



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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	12.44	13.46	13.25	14.29	15.32	15.27	16.29	16.08	17.13	18.16
	3H	12.93	13.84	13.75	14.68	15.74	16.63	17.55	17.46	18.39	19.45
	4H	13.12	13.99	13.97	14.84	15.91	17.09	17.95	17.93	18.80	19.87
	6H	13.25	14.05	14.10	14.91	15.99	17.38	18.18	18.24	19.04	20.12
	8H	13.26	14.02	14.12	14.89	15.98	17.46	18.22	18.32	19.10	20.18
	12H	13.23	13.96	14.10	14.83	15.94	17.51	18.23	18.38	19.10	20.21
4H	2H	13.49	14.35	14.34	15.21	16.28	15.70	16.57	16.55	17.42	18.49
	3H	14.53	15.25	15.39	16.14	17.22	17.23	17.95	18.08	18.83	19.92
	4H	14.81	15.47	15.69	16.35	17.46	17.76	18.42	18.63	19.30	20.41
	6H	14.95	15.52	15.83	16.42	17.54	18.14	18.70	19.02	19.61	20.72
	8H	14.96	15.49	15.85	16.39	17.52	18.25	18.78	19.14	19.68	20.81
	12H	14.93	15.41	15.84	16.33	17.46	18.31	18.79	19.22	19.71	20.84
8H	4H	15.28	15.81	16.17	16.71	17.84	17.90	18.43	18.79	19.33	20.46
	6H	15.55	15.99	16.47	16.93	18.06	18.34	18.78	19.26	19.72	20.85
	8H	15.59	15.98	16.52	16.92	18.06	18.50	18.89	19.42	19.82	20.97
	12H	15.59	15.93	16.51	16.85	18.05	18.61	18.95	19.53	19.87	21.07
12H	4H	15.30	15.77	16.20	16.69	17.83	17.87	18.35	18.78	19.27	20.40
	6H	15.61	16.00	16.54	16.94	18.08	18.34	18.73	19.27	19.66	20.81
	8H	15.69	16.03	16.62	16.96	18.15	18.51	18.85	19.44	19.78	20.98