

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: P933937

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933937
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

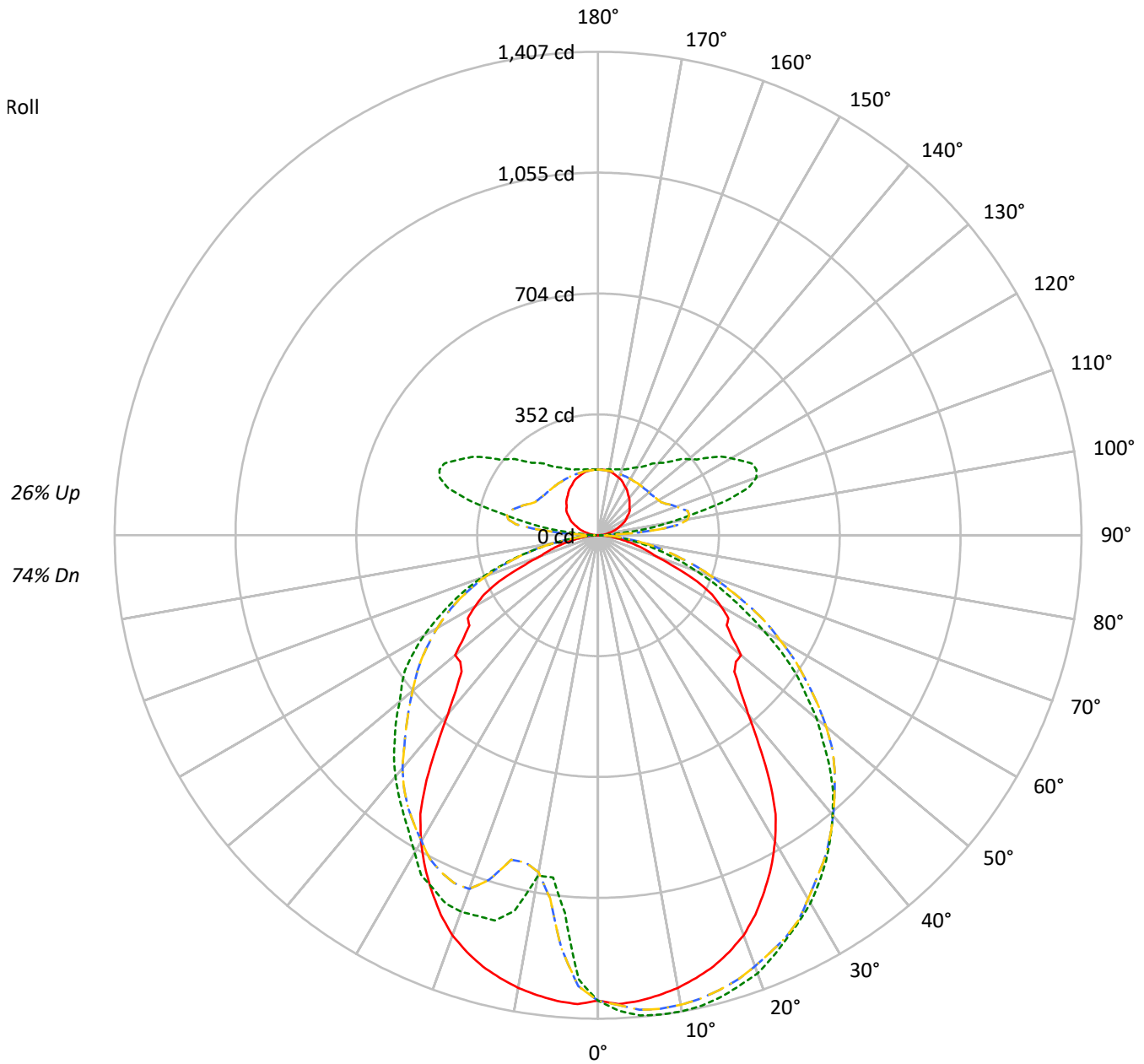
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4751.4 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74			
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62			
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52			
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44			
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38			
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33			
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29			
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26			
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23			
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21			
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8377	8377	8377	8377
5°	8437	8457	8437	6649
10°	8378	8330	8378	5955
15°	8283	8150	8283	6805
20°	8107	7936	8107	6819
25°	7749	7624	7749	6675
30°	7288	7365	7288	6357
35°	6494	7038	6494	6009
40°	5408	6652	5408	5745
45°	4829	6201	4829	5442
50°	5126	5663	5126	5138
55°	4818	5083	4818	4962
60°	4960	4317	4960	4545
65°	4490	3569	4490	3989
70°	3103	2844	3103	3344
75°	2709	2102	2709	2518
80°	2168	1390	2168	1514
85°	1222	735	1222	626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	2.6
10°-20°	347.1	7.3
20°-30°	536.5	11.3
30°-40°	640.5	13.5
40°-50°	644.2	13.6
50°-60°	560.6	11.8
60°-70°	397.5	8.4
70°-80°	210.3	4.4
80°-90°	53.1	1.1
90°-100°	93.2	2.0
100°-110°	245.0	5.2
110°-120°	254.1	5.3
120°-130°	203.8	4.3
130°-140°	159.9	3.4
140°-150°	122.7	2.6
150°-160°	88.4	1.9
160°-170°	54.1	1.1
170°-180°	18.3	0.4
0°-30°	1005.8	21.2
0°-40°	1646.3	34.6
0°-60°	2851.2	60.0
0°-90°	3512.0	73.9
90°-120°	592.3	12.5
90°-150°	1078.7	22.7
90°-180°	1239.0	26.1
0°-180°	4751.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1354	1354	1354	1354	1354	
5°	1361	1403	1361	1103	1361	129
15°	1299	1390	1299	1161	1299	366
25°	1144	1297	1144	1135	1144	525
35°	870	1157	870	988	870	538
45°	561	953	561	837	561	450
55°	457	703	457	687	457	420
65°	318	424	318	474	318	304
75°	120	201	120	241	120	127
85°	20	51	20	44	20	28
90°	1	5	1	5	1	2
95°	12	56	12	56	12	14
105°	44	384	44	384	44	47
115°	78	494	78	494	78	77
125°	109	393	109	393	109	97
135°	130	305	130	305	130	101
145°	151	248	151	248	151	94
155°	170	213	170	213	170	78
165°	184	199	184	199	184	52
175°	191	192	191	192	191	18
180°	191	191	191	191	191	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1365.8	1365.8	1373.4	1376.0	1376.0	1372.2	1368.3	1372.2	1383.7	1387.5	1386.2
5°	1360.6	1370.9	1385.0	1387.5	1390.1	1388.8	1386.2	1388.8	1401.6	1404.2	1405.5
7.5°	1350.4	1369.6	1387.5	1391.4	1395.2	1391.4	1390.1	1392.7	1405.5	1408.0	1408.0
10°	1337.6	1364.5	1385.0	1387.5	1391.4	1387.5	1387.5	1392.7	1405.5	1408.0	1409.3
12.5°	1319.6	1356.8	1376.0	1378.6	1383.7	1382.4	1381.1	1386.2	1399.1	1401.6	1401.6
15°	1299.1	1342.7	1360.6	1363.2	1372.2	1369.6	1369.6	1374.7	1388.8	1392.7	1391.4
17.5°	1270.9	1324.8	1345.3	1349.1	1355.5	1354.2	1355.5	1360.6	1373.4	1376.0	1377.3
20°	1238.9	1300.4	1324.8	1328.6	1335.0	1335.0	1335.0	1341.4	1354.2	1359.3	1359.3
22.5°	1195.4	1274.8	1300.4	1303.0	1310.7	1310.7	1313.2	1322.2	1333.7	1335.0	1335.0
25°	1144.1	1246.6	1268.4	1276.1	1283.8	1287.6	1291.4	1296.6	1300.4	1299.1	1300.4
27.5°	1090.3	1210.7	1238.9	1244.0	1254.3	1258.1	1263.3	1264.5	1265.8	1269.7	1267.1
30°	1030.1	1160.8	1203.0	1208.2	1224.8	1227.4	1222.3	1224.8	1231.2	1233.8	1236.4
32.5°	962.2	1086.5	1165.9	1177.4	1192.8	1185.1	1183.8	1187.7	1197.9	1197.9	1200.5
35°	869.9	1028.8	1131.3	1141.5	1153.1	1144.1	1149.2	1150.5	1156.9	1160.8	1159.5
37.5°	768.7	978.8	1095.4	1103.1	1112.1	1100.5	1108.2	1112.1	1117.2	1114.6	1114.6
40°	679.0	900.7	1053.1	1058.3	1066.0	1057.0	1064.7	1067.2	1069.8	1067.2	1066.0
42.5°	612.4	814.8	1008.3	1014.7	1009.6	1016.0	1018.5	1023.7	1019.8	1014.7	1014.7
45°	561.2	791.8	959.6	967.3	959.6	969.9	973.7	973.7	962.2	959.6	958.3
47.5°	544.5	745.7	910.9	910.9	907.1	919.9	926.3	917.3	905.8	902.0	902.0
50°	543.2	694.4	844.3	839.2	857.1	872.5	866.1	857.1	848.1	834.1	834.1
52.5°	493.3	631.6	758.5	777.7	805.9	814.8	804.6	795.6	780.2	773.8	768.7
55°	457.4	566.3	680.3	718.7	748.2	759.7	740.5	731.6	708.5	704.7	702.1
57.5°	449.7	471.5	608.6	657.3	693.1	691.8	680.3	663.7	644.4	640.6	639.3
60°	412.5	340.8	531.7	589.3	626.5	622.7	612.4	597.0	579.1	576.5	574.0
62.5°	374.1	247.3	444.6	509.9	562.4	561.2	552.2	529.1	516.3	509.9	504.8
65°	317.7	207.6	316.5	424.1	499.7	502.2	483.0	466.4	452.3	444.6	443.3
67.5°	242.1	169.1	214.0	353.6	439.4	436.9	412.5	404.9	386.9	383.1	375.4
70°	179.4	112.7	148.6	287.0	380.5	374.1	354.9	345.9	329.3	320.3	315.2
72.5°	148.6	91.0	108.9	222.9	320.3	312.6	296.0	285.7	271.6	263.9	258.8
75°	120.4	96.1	83.3	165.3	260.1	255.0	239.6	229.3	217.8	207.6	208.8
77.5°	88.4	89.7	66.6	121.7	206.3	198.6	189.6	176.8	171.7	161.4	161.4
80°	66.6	70.5	50.0	83.3	148.6	148.6	140.9	132.0	123.0	117.9	117.9
82.5°	44.8	44.8	37.2	52.5	101.2	97.4	92.2	89.7	84.6	82.0	82.0
85°	20.5	25.6	23.1	32.0	55.1	57.7	57.7	55.1	53.8	51.2	52.5
87.5°	6.4	11.5	14.1	17.9	28.2	29.5	30.7	30.7	30.7	32.0	32.0
90°	1.3	2.3	3.3	3.6	5.6	8.4	9.7	8.6	6.5	4.9	4.9
92.5°	5.1	13.8	22.5	24.8	34.8	48.3	54.9	48.1	34.5	24.3	23.4
95°	12.3	28.3	44.2	48.3	85.7	135.6	160.5	143.2	108.6	82.8	79.9
97.5°	21.3	35.4	49.5	53.0	115.4	198.6	240.2	229.2	207.5	191.1	185.5
100°	28.3	41.0	53.8	57.0	126.2	218.6	264.7	265.5	267.1	268.3	261.6
102.5°	34.2	46.1	58.0	61.0	131.2	224.8	271.6	285.5	313.4	334.3	328.6
105°	44.2	54.2	64.3	66.9	134.9	225.5	270.8	302.0	364.5	411.3	408.2
107.5°	54.4	63.8	73.2	75.6	135.6	215.5	255.5	299.0	386.1	451.3	452.1
110°	61.3	69.9	78.3	80.5	134.5	206.6	242.7	291.3	388.6	461.6	464.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	68.2	76.3	84.3	86.4	134.5	198.8	231.0	280.8	380.3	455.0	459.9
115°	78.4	85.9	93.4	95.2	135.8	189.9	216.9	265.0	360.9	432.8	439.6
117.5°	88.6	95.3	102.1	103.8	138.3	184.3	207.4	250.7	337.2	402.1	409.6
120°	94.5	100.9	107.2	108.8	140.4	182.5	203.5	243.1	322.2	381.5	388.9
122.5°	100.2	106.7	113.1	114.7	143.3	181.5	200.5	236.2	307.4	360.9	368.1
125°	109.1	115.0	120.9	122.3	147.3	180.7	197.4	227.6	288.2	333.5	340.2
127.5°	116.2	122.1	128.1	129.6	151.3	180.2	194.7	220.6	272.6	311.6	317.2
130°	120.1	126.5	132.8	134.4	154.2	180.5	193.6	216.8	263.0	297.7	302.9
132.5°	124.1	130.5	136.8	138.5	156.6	180.7	192.8	213.4	254.9	285.9	290.5
135°	130.0	135.8	141.6	143.1	159.1	180.6	191.2	208.6	243.3	269.2	273.2
137.5°	136.1	141.8	147.5	149.0	163.0	181.7	191.0	205.7	235.0	256.9	260.2
140°	141.0	146.3	151.6	153.0	165.4	181.8	190.0	202.7	228.1	247.0	250.1
142.5°	144.9	149.7	154.7	155.9	167.2	182.4	190.0	201.1	223.4	240.1	242.7
145°	150.8	155.0	159.3	160.4	169.9	182.4	188.8	197.8	216.0	229.7	231.6
147.5°	156.6	160.8	165.0	166.0	173.6	183.7	188.8	195.9	210.2	221.0	222.6
150°	160.5	164.2	168.1	169.0	175.6	184.4	188.8	194.8	206.9	215.9	217.3
152.5°	164.5	167.3	170.2	170.9	176.9	184.8	188.8	193.9	204.2	212.0	213.0
155°	170.4	172.5	174.7	175.2	179.7	185.8	188.8	192.9	201.1	207.2	207.9
157.5°	174.8	176.8	178.9	179.4	182.5	186.7	188.8	191.9	198.3	203.1	203.6
160°	177.7	179.4	180.9	181.3	183.8	187.1	188.8	191.5	197.0	201.1	201.3
162.5°	180.6	181.8	183.0	183.4	185.2	187.6	188.8	191.1	195.7	199.2	199.4
165°	183.9	184.9	186.0	186.3	187.1	188.2	188.8	190.4	193.7	196.2	196.4
167.5°	186.8	187.3	187.8	188.0	188.7	189.6	190.0	191.2	193.3	194.9	195.0
170°	188.8	189.3	189.8	189.9	190.0	190.0	190.0	191.2	193.3	194.9	194.9
172.5°	189.8	189.9	190.0	190.0	190.0	190.0	190.0	190.9	192.6	193.9	193.8
175°	191.2	191.2	191.2	191.2	190.8	190.3	190.0	190.6	191.7	192.5	192.5
177.5°	191.2	191.2	191.2	191.2	190.9	190.5	190.3	190.7	191.6	192.3	192.2
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1388.8	1385.0	1388.8	1386.2	1387.5	1383.7	1372.2	1368.3	1372.2	1376.0	1376.0
5°	1405.5	1402.9	1405.5	1405.5	1404.2	1401.6	1388.8	1386.2	1388.8	1390.1	1387.5
7.5°	1410.6	1406.7	1410.6	1408.0	1408.0	1405.5	1392.7	1390.1	1391.4	1395.2	1391.4
10°	1410.6	1406.7	1410.6	1409.3	1408.0	1405.5	1392.7	1387.5	1387.5	1391.4	1387.5
12.5°	1404.2	1401.6	1404.2	1401.6	1401.6	1399.1	1386.2	1381.1	1382.4	1383.7	1378.6
15°	1393.9	1390.1	1393.9	1391.4	1392.7	1388.8	1374.7	1369.6	1369.6	1372.2	1363.2
17.5°	1378.6	1373.4	1378.6	1377.3	1376.0	1373.4	1360.6	1355.5	1354.2	1355.5	1349.1
20°	1360.6	1356.8	1360.6	1359.3	1359.3	1354.2	1341.4	1335.0	1335.0	1335.0	1328.6
22.5°	1332.4	1328.6	1332.4	1335.0	1335.0	1333.7	1322.2	1313.2	1310.7	1310.7	1303.0
25°	1300.4	1296.6	1300.4	1300.4	1299.1	1300.4	1296.6	1291.4	1287.6	1283.8	1276.1
27.5°	1269.7	1267.1	1269.7	1267.1	1269.7	1265.8	1264.5	1263.3	1258.1	1254.3	1244.0
30°	1238.9	1236.4	1238.9	1236.4	1233.8	1231.2	1224.8	1222.3	1227.4	1224.8	1208.2
32.5°	1200.5	1197.9	1200.5	1200.5	1197.9	1197.9	1187.7	1183.8	1185.1	1192.8	1177.4
35°	1160.8	1156.9	1160.8	1159.5	1160.8	1156.9	1150.5	1149.2	1144.1	1153.1	1141.5
37.5°	1114.6	1110.8	1114.6	1114.6	1114.6	1117.2	1112.1	1108.2	1100.5	1112.1	1103.1
40°	1067.2	1062.1	1067.2	1066.0	1067.2	1069.8	1067.2	1064.7	1057.0	1066.0	1058.3
42.5°	1013.4	1012.1	1013.4	1014.7	1014.7	1019.8	1023.7	1018.5	1016.0	1009.6	1014.7
45°	955.8	953.2	955.8	958.3	959.6	962.2	973.7	973.7	969.9	959.6	967.3
47.5°	894.3	887.9	894.3	902.0	902.0	905.8	917.3	926.3	919.9	907.1	910.9
50°	828.9	830.2	828.9	834.1	834.1	848.1	857.1	866.1	872.5	857.1	839.2
52.5°	764.9	763.6	764.9	768.7	773.8	780.2	795.6	804.6	814.8	805.9	777.7
55°	700.8	703.4	700.8	702.1	704.7	708.5	731.6	740.5	759.7	748.2	718.7
57.5°	636.8	632.9	636.8	639.3	640.6	644.4	663.7	680.3	691.8	693.1	657.3
60°	562.4	557.3	562.4	574.0	576.5	579.1	597.0	612.4	622.7	626.5	589.3
62.5°	497.1	488.1	497.1	504.8	509.9	516.3	529.1	552.2	561.2	562.4	509.9
65°	427.9	424.1	427.9	443.3	444.6	452.3	466.4	483.0	502.2	499.7	424.1
67.5°	365.1	365.1	365.1	375.4	383.1	386.9	404.9	412.5	436.9	439.4	353.6
70°	307.5	306.2	307.5	315.2	320.3	329.3	345.9	354.9	374.1	380.5	287.0
72.5°	252.4	251.1	252.4	258.8	263.9	271.6	285.7	296.0	312.6	320.3	222.9
75°	203.7	201.1	203.7	208.8	207.6	217.8	229.3	239.6	255.0	260.1	165.3
77.5°	156.3	156.3	156.3	161.4	161.4	171.7	176.8	189.6	198.6	206.3	121.7
80°	116.6	115.3	116.6	117.9	117.9	123.0	132.0	140.9	148.6	148.6	83.3
82.5°	82.0	79.4	82.0	82.0	82.0	84.6	89.7	92.2	97.4	101.2	52.5
85°	51.2	51.2	51.2	52.5	51.2	53.8	55.1	57.7	57.7	55.1	32.0
87.5°	33.3	32.0	33.3	32.0	32.0	30.7	30.7	30.7	29.5	28.2	17.9
90°	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.4	5.6	3.6
92.5°	19.5	15.6	19.5	23.4	24.3	34.5	48.1	54.9	48.3	34.8	24.8
95°	68.1	56.4	68.1	79.9	82.8	108.6	143.2	160.5	135.6	85.7	48.3
97.5°	163.1	140.8	163.1	185.5	191.1	207.5	229.2	240.2	198.6	115.4	53.0
100°	235.1	208.4	235.1	261.6	268.3	267.1	265.5	264.7	218.6	126.2	57.0
102.5°	305.8	283.0	305.8	328.6	334.3	313.4	285.5	271.6	224.8	131.2	61.0
105°	396.0	383.7	396.0	408.2	411.3	364.5	302.0	270.8	225.5	134.9	66.9
107.5°	455.0	458.0	455.0	452.1	451.3	386.1	299.0	255.5	215.5	135.6	75.6
110°	477.5	490.4	477.5	464.7	461.6	388.6	291.3	242.7	206.6	134.5	80.5



TEST NUMBER: P933937

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	479.5	499.2	479.5	459.9	455.0	380.3	280.8	231.0	198.8	134.5	86.4
115°	466.8	494.0	466.8	439.6	432.8	360.9	265.0	216.9	189.9	135.8	95.2
117.5°	439.9	470.0	439.9	409.6	402.1	337.2	250.7	207.4	184.3	138.3	103.8
120°	418.2	447.5	418.2	388.9	381.5	322.2	243.1	203.5	182.5	140.4	108.8
122.5°	397.0	425.9	397.0	368.1	360.9	307.4	236.2	200.5	181.5	143.3	114.7
125°	366.8	393.4	366.8	340.2	333.5	288.2	227.6	197.4	180.7	147.3	122.3
127.5°	339.7	362.2	339.7	317.2	311.6	272.6	220.6	194.7	180.2	151.3	129.6
130°	323.6	344.4	323.6	302.9	297.7	263.0	216.8	193.6	180.5	154.2	134.4
132.5°	309.1	327.7	309.1	290.5	285.9	254.9	213.4	192.8	180.7	156.6	138.5
135°	289.2	305.3	289.2	273.2	269.2	243.3	208.6	191.2	180.6	159.1	143.1
137.5°	273.3	286.4	273.3	260.2	256.9	235.0	205.7	191.0	181.7	163.0	149.0
140°	262.3	274.6	262.3	250.1	247.0	228.1	202.7	190.0	181.8	165.4	153.0
142.5°	253.2	263.8	253.2	242.7	240.1	223.4	201.1	190.0	182.4	167.2	155.9
145°	239.7	247.7	239.7	231.6	229.7	216.0	197.8	188.8	182.4	169.9	160.4
147.5°	229.2	235.8	229.2	222.6	221.0	210.2	195.9	188.8	183.7	173.6	166.0
150°	222.7	228.1	222.7	217.3	215.9	206.9	194.8	188.8	184.4	175.6	169.0
152.5°	217.0	221.1	217.0	213.0	212.0	204.2	193.9	188.8	184.8	176.9	170.9
155°	210.5	213.3	210.5	207.9	207.2	201.1	192.9	188.8	185.8	179.7	175.2
157.5°	205.5	207.4	205.5	203.6	203.1	198.3	191.9	188.8	186.7	182.5	179.4
160°	202.4	203.5	202.4	201.3	201.1	197.0	191.5	188.8	187.1	183.8	181.3
162.5°	200.5	201.5	200.5	199.4	199.2	195.7	191.1	188.8	187.6	185.2	183.4
165°	197.6	198.7	197.6	196.4	196.2	193.7	190.4	188.8	188.2	187.1	186.3
167.5°	195.5	195.9	195.5	195.0	194.9	193.3	191.2	190.0	189.6	188.7	188.0
170°	194.9	194.9	194.9	194.9	194.9	193.3	191.2	190.0	190.0	190.0	189.9
172.5°	193.4	193.0	193.4	193.8	193.9	192.6	190.9	190.0	190.0	190.0	190.0
175°	192.5	192.5	192.5	192.5	192.5	191.7	190.6	190.0	190.3	190.8	191.2
177.5°	191.7	191.2	191.7	192.2	192.3	191.6	190.7	190.3	190.5	190.9	191.2
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



TEST NUMBER: P933937

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1373.4	1365.8	1365.8	1352.9	1347.8	1344.0	1337.6	1318.3	1313.2	1308.1	1315.8
5°	1385.0	1370.9	1360.6	1337.6	1318.3	1310.7	1286.3	1240.2	1209.4	1186.4	1173.6
7.5°	1387.5	1369.6	1350.4	1314.5	1268.4	1247.9	1173.6	1089.0	1066.0	1045.5	1032.6
10°	1385.0	1364.5	1337.6	1283.8	1174.9	1139.0	1064.7	1009.6	995.5	991.6	995.5
12.5°	1376.0	1356.8	1319.6	1229.9	1077.5	1053.1	1009.6	977.5	975.0	981.4	1016.0
15°	1360.6	1342.7	1299.1	1158.2	1023.7	1005.7	975.0	963.5	977.5	1022.4	1126.2
17.5°	1345.3	1324.8	1270.9	1087.7	982.7	969.9	948.1	971.1	1050.6	1110.8	1145.4
20°	1324.8	1300.4	1238.9	1036.5	953.2	941.7	931.4	1035.2	1095.4	1117.2	1136.4
22.5°	1300.4	1274.8	1195.4	1000.6	922.5	913.5	919.9	1071.1	1095.4	1110.8	1127.4
25°	1268.4	1246.6	1144.1	972.4	898.1	887.9	912.2	1067.2	1081.3	1085.2	1118.5
27.5°	1238.9	1210.7	1090.3	946.8	868.6	864.8	918.6	1050.6	1060.8	1064.7	1100.5
30°	1203.0	1160.8	1030.1	919.9	837.9	836.6	919.9	1030.1	1027.5	1037.8	1073.6
32.5°	1165.9	1086.5	962.2	886.6	808.4	807.2	910.9	999.3	996.8	1010.9	1037.8
35°	1131.3	1028.8	869.9	848.1	771.3	772.6	889.1	963.5	964.7	977.5	994.2
37.5°	1095.4	978.8	768.7	805.9	735.4	735.4	859.7	930.1	927.6	931.4	954.5
40°	1053.1	900.7	679.0	750.8	702.1	698.2	823.8	894.3	885.3	884.0	916.1
42.5°	1008.3	814.8	612.4	677.8	663.7	658.5	780.2	850.7	834.1	837.9	878.9
45°	959.6	791.8	561.2	572.7	623.9	620.1	732.8	800.7	789.2	799.5	841.7
47.5°	910.9	745.7	544.5	475.3	581.7	580.4	680.3	752.1	745.7	755.9	800.7
50°	844.3	694.4	543.2	407.4	534.3	539.4	617.5	704.7	704.7	713.6	761.0
52.5°	758.5	631.6	493.3	369.0	479.2	494.5	562.4	663.7	666.2	675.2	717.5
55°	680.3	566.3	457.4	339.5	413.8	447.1	508.6	621.4	626.5	635.5	673.9
57.5°	608.6	471.5	449.7	304.9	353.6	385.6	461.2	580.4	582.9	590.6	627.8
60°	531.7	340.8	412.5	267.8	301.1	325.4	417.7	531.7	540.7	545.8	577.8
62.5°	444.6	247.3	374.1	242.1	275.5	280.6	381.8	485.6	497.1	500.9	520.2
65°	316.5	207.6	317.7	220.4	248.6	249.8	343.4	438.2	448.4	454.8	468.9
67.5°	214.0	169.1	242.1	199.9	228.1	229.3	306.2	383.1	397.2	402.3	411.3
70°	148.6	112.7	179.4	178.1	205.0	207.6	266.5	333.1	345.9	349.8	354.9
72.5°	108.9	91.0	148.6	160.1	180.6	183.2	225.5	276.7	289.5	293.4	296.0
75°	83.3	96.1	120.4	139.6	153.7	155.0	184.5	225.5	234.5	237.0	238.3
77.5°	66.6	89.7	88.4	112.7	125.6	123.0	144.8	174.2	181.9	181.9	181.9
80°	50.0	70.5	66.6	80.7	92.2	89.7	103.8	124.3	126.8	129.4	128.1
82.5°	37.2	44.8	44.8	51.2	61.5	58.9	69.2	80.7	80.7	80.7	83.3
85°	23.1	25.6	20.5	26.9	34.6	33.3	38.4	43.6	44.8	44.8	42.3
87.5°	14.1	11.5	6.4	10.2	15.4	15.4	17.9	19.2	17.9	17.9	17.9
90°	3.3	2.3	1.3	2.3	3.3	3.6	5.6	8.4	9.7	8.6	6.5
92.5°	22.5	13.8	5.1	13.8	22.5	24.8	34.8	48.3	54.9	48.1	34.5
95°	44.2	28.3	12.3	28.3	44.2	48.3	85.7	135.6	160.5	143.2	108.6
97.5°	49.5	35.4	21.3	35.4	49.5	53.0	115.4	198.6	240.2	229.2	207.5
100°	53.8	41.0	28.3	41.0	53.8	57.0	126.2	218.6	264.7	265.5	267.1
102.5°	58.0	46.1	34.2	46.1	58.0	61.0	131.2	224.8	271.6	285.5	313.4
105°	64.3	54.2	44.2	54.2	64.3	66.9	134.9	225.5	270.8	302.0	364.5
107.5°	73.2	63.8	54.4	63.8	73.2	75.6	135.6	215.5	255.5	299.0	386.1
110°	78.3	69.9	61.3	69.9	78.3	80.5	134.5	206.6	242.7	291.3	388.6



TEST NUMBER: P933937

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	84.3	76.3	68.2	76.3	84.3	86.4	134.5	198.8	231.0	280.8	380.3
115°	93.4	85.9	78.4	85.9	93.4	95.2	135.8	189.9	216.9	265.0	360.9
117.5°	102.1	95.3	88.6	95.3	102.1	103.8	138.3	184.3	207.4	250.7	337.2
120°	107.2	100.9	94.5	100.9	107.2	108.8	140.4	182.5	203.5	243.1	322.2
122.5°	113.1	106.7	100.2	106.7	113.1	114.7	143.3	181.5	200.5	236.2	307.4
125°	120.9	115.0	109.1	115.0	120.9	122.3	147.3	180.7	197.4	227.6	288.2
127.5°	128.1	122.1	116.2	122.1	128.1	129.6	151.3	180.2	194.7	220.6	272.6
130°	132.8	126.5	120.1	126.5	132.8	134.4	154.2	180.5	193.6	216.8	263.0
132.5°	136.8	130.5	124.1	130.5	136.8	138.5	156.6	180.7	192.8	213.4	254.9
135°	141.6	135.8	130.0	135.8	141.6	143.1	159.1	180.6	191.2	208.6	243.3
137.5°	147.5	141.8	136.1	141.8	147.5	149.0	163.0	181.7	191.0	205.7	235.0
140°	151.6	146.3	141.0	146.3	151.6	153.0	165.4	181.8	190.0	202.7	228.1
142.5°	154.7	149.7	144.9	149.7	154.7	155.9	167.2	182.4	190.0	201.1	223.4
145°	159.3	155.0	150.8	155.0	159.3	160.4	169.9	182.4	188.8	197.8	216.0
147.5°	165.0	160.8	156.6	160.8	165.0	166.0	173.6	183.7	188.8	195.9	210.2
150°	168.1	164.2	160.5	164.2	168.1	169.0	175.6	184.4	188.8	194.8	206.9
152.5°	170.2	167.3	164.5	167.3	170.2	170.9	176.9	184.8	188.8	193.9	204.2
155°	174.7	172.5	170.4	172.5	174.7	175.2	179.7	185.8	188.8	192.9	201.1
157.5°	178.9	176.8	174.8	176.8	178.9	179.4	182.5	186.7	188.8	191.9	198.3
160°	180.9	179.4	177.7	179.4	180.9	181.3	183.8	187.1	188.8	191.5	197.0
162.5°	183.0	181.8	180.6	181.8	183.0	183.4	185.2	187.6	188.8	191.1	195.7
165°	186.0	184.9	183.9	184.9	186.0	186.3	187.1	188.2	188.8	190.4	193.7
167.5°	187.8	187.3	186.8	187.3	187.8	188.0	188.7	189.6	190.0	191.2	193.3
170°	189.8	189.3	188.8	189.3	189.8	189.9	190.0	190.0	190.0	191.2	193.3
172.5°	190.0	189.9	189.8	189.9	190.0	190.0	190.0	190.0	190.0	190.9	192.6
175°	191.2	191.2	191.2	191.2	191.2	191.2	190.8	190.3	190.0	190.6	191.7
177.5°	191.2	191.2	191.2	191.2	191.2	191.2	190.9	190.5	190.3	190.7	191.6
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



TEST NUMBER: P933937

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1306.8	1303.0	1308.1	1294.0	1308.1	1303.0	1306.8	1315.8	1308.1	1313.2	1318.3
5°	1146.7	1140.3	1119.8	1103.1	1119.8	1140.3	1146.7	1173.6	1186.4	1209.4	1240.2
7.5°	1025.0	1019.8	1014.7	1004.5	1014.7	1019.8	1025.0	1032.6	1045.5	1066.0	1089.0
10°	998.0	999.3	1007.0	1005.7	1007.0	999.3	998.0	995.5	991.6	995.5	1009.6
12.5°	1067.2	1078.8	1121.0	1118.5	1121.0	1078.8	1067.2	1016.0	981.4	975.0	977.5
15°	1146.7	1150.5	1159.5	1160.8	1159.5	1150.5	1146.7	1126.2	1022.4	977.5	963.5
17.5°	1154.4	1155.6	1162.0	1162.0	1162.0	1155.6	1154.4	1145.4	1110.8	1050.6	971.1
20°	1147.9	1150.5	1163.3	1165.9	1163.3	1150.5	1147.9	1136.4	1117.2	1095.4	1035.2
22.5°	1145.4	1150.5	1160.8	1159.5	1160.8	1150.5	1145.4	1127.4	1110.8	1095.4	1071.1
25°	1132.6	1132.6	1133.9	1135.1	1133.9	1132.6	1132.6	1118.5	1085.2	1081.3	1067.2
27.5°	1105.7	1108.2	1115.9	1114.6	1115.9	1108.2	1105.7	1100.5	1064.7	1060.8	1050.6
30°	1081.3	1078.8	1072.4	1067.2	1072.4	1078.8	1081.3	1073.6	1037.8	1027.5	1030.1
32.5°	1040.3	1033.9	1027.5	1023.7	1027.5	1033.9	1040.3	1037.8	1010.9	996.8	999.3
35°	991.6	992.9	991.6	987.8	991.6	992.9	991.6	994.2	977.5	964.7	963.5
37.5°	957.1	959.6	958.3	953.2	958.3	959.6	957.1	954.5	931.4	927.6	930.1
40°	921.2	922.5	921.2	917.3	921.2	922.5	921.2	916.1	884.0	885.3	894.3
42.5°	886.6	885.3	881.5	878.9	881.5	885.3	886.6	878.9	837.9	834.1	850.7
45°	846.9	848.1	840.5	836.6	840.5	848.1	846.9	841.7	799.5	789.2	800.7
47.5°	807.2	807.2	800.7	796.9	800.7	807.2	807.2	800.7	755.9	745.7	752.1
50°	764.9	763.6	754.6	753.3	754.6	763.6	764.9	761.0	713.6	704.7	704.7
52.5°	716.2	716.2	717.5	720.0	717.5	716.2	716.2	717.5	675.2	666.2	663.7
55°	673.9	675.2	684.2	686.7	684.2	675.2	673.9	673.9	635.5	626.5	621.4
57.5°	630.3	630.3	636.8	636.8	636.8	630.3	630.3	627.8	590.6	582.9	580.4
60°	580.4	582.9	588.1	586.8	588.1	582.9	580.4	577.8	545.8	540.7	531.7
62.5°	527.9	530.4	531.7	529.1	531.7	530.4	527.9	520.2	500.9	497.1	485.6
65°	472.8	475.3	476.6	474.0	476.6	475.3	472.8	468.9	454.8	448.4	438.2
67.5°	416.4	415.1	413.8	418.9	413.8	415.1	416.4	411.3	402.3	397.2	383.1
70°	358.7	358.7	357.5	360.0	357.5	358.7	358.7	354.9	349.8	345.9	333.1
72.5°	297.2	296.0	301.1	297.2	301.1	296.0	297.2	296.0	293.4	289.5	276.7
75°	237.0	239.6	237.0	240.9	237.0	239.6	237.0	238.3	237.0	234.5	225.5
77.5°	180.6	183.2	180.6	180.6	180.6	183.2	180.6	181.9	181.9	181.9	174.2
80°	128.1	126.8	126.8	125.6	126.8	126.8	128.1	128.1	129.4	126.8	124.3
82.5°	82.0	80.7	80.7	83.3	80.7	80.7	82.0	83.3	80.7	80.7	80.7
85°	44.8	46.1	43.6	43.6	43.6	46.1	44.8	42.3	44.8	44.8	43.6
87.5°	16.7	15.4	15.4	15.4	15.4	15.4	16.7	17.9	17.9	17.9	19.2
90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.4
92.5°	24.3	23.4	19.5	15.6	19.5	23.4	24.3	34.5	48.1	54.9	48.3
95°	82.8	79.9	68.1	56.4	68.1	79.9	82.8	108.6	143.2	160.5	135.6
97.5°	191.1	185.5	163.1	140.8	163.1	185.5	191.1	207.5	229.2	240.2	198.6
100°	268.3	261.6	235.1	208.4	235.1	261.6	268.3	267.1	265.5	264.7	218.6
102.5°	334.3	328.6	305.8	283.0	305.8	328.6	334.3	313.4	285.5	271.6	224.8
105°	411.3	408.2	396.0	383.7	396.0	408.2	411.3	364.5	302.0	270.8	225.5
107.5°	451.3	452.1	455.0	458.0	455.0	452.1	451.3	386.1	299.0	255.5	215.5
110°	461.6	464.7	477.5	490.4	477.5	464.7	461.6	388.6	291.3	242.7	206.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	455.0	459.9	479.5	499.2	479.5	459.9	455.0	380.3	280.8	231.0	198.8
115°	432.8	439.6	466.8	494.0	466.8	439.6	432.8	360.9	265.0	216.9	189.9
117.5°	402.1	409.6	439.9	470.0	439.9	409.6	402.1	337.2	250.7	207.4	184.3
120°	381.5	388.9	418.2	447.5	418.2	388.9	381.5	322.2	243.1	203.5	182.5
122.5°	360.9	368.1	397.0	425.9	397.0	368.1	360.9	307.4	236.2	200.5	181.5
125°	333.5	340.2	366.8	393.4	366.8	340.2	333.5	288.2	227.6	197.4	180.7
127.5°	311.6	317.2	339.7	362.2	339.7	317.2	311.6	272.6	220.6	194.7	180.2
130°	297.7	302.9	323.6	344.4	323.6	302.9	297.7	263.0	216.8	193.6	180.5
132.5°	285.9	290.5	309.1	327.7	309.1	290.5	285.9	254.9	213.4	192.8	180.7
135°	269.2	273.2	289.2	305.3	289.2	273.2	269.2	243.3	208.6	191.2	180.6
137.5°	256.9	260.2	273.3	286.4	273.3	260.2	256.9	235.0	205.7	191.0	181.7
140°	247.0	250.1	262.3	274.6	262.3	250.1	247.0	228.1	202.7	190.0	181.8
142.5°	240.1	242.7	253.2	263.8	253.2	242.7	240.1	223.4	201.1	190.0	182.4
145°	229.7	231.6	239.7	247.7	239.7	231.6	229.7	216.0	197.8	188.8	182.4
147.5°	221.0	222.6	229.2	235.8	229.2	222.6	221.0	210.2	195.9	188.8	183.7
150°	215.9	217.3	222.7	228.1	222.7	217.3	215.9	206.9	194.8	188.8	184.4
152.5°	212.0	213.0	217.0	221.1	217.0	213.0	212.0	204.2	193.9	188.8	184.8
155°	207.2	207.9	210.5	213.3	210.5	207.9	207.2	201.1	192.9	188.8	185.8
157.5°	203.1	203.6	205.5	207.4	205.5	203.6	203.1	198.3	191.9	188.8	186.7
160°	201.1	201.3	202.4	203.5	202.4	201.3	201.1	197.0	191.5	188.8	187.1
162.5°	199.2	199.4	200.5	201.5	200.5	199.4	199.2	195.7	191.1	188.8	187.6
165°	196.2	196.4	197.6	198.7	197.6	196.4	196.2	193.7	190.4	188.8	188.2
167.5°	194.9	195.0	195.5	195.9	195.5	195.0	194.9	193.3	191.2	190.0	189.6
170°	194.9	194.9	194.9	194.9	194.9	194.9	194.9	193.3	191.2	190.0	190.0
172.5°	193.9	193.8	193.4	193.0	193.4	193.8	193.9	192.6	190.9	190.0	190.0
175°	192.5	192.5	192.5	192.5	192.5	192.5	192.5	191.7	190.6	190.0	190.3
177.5°	192.3	192.2	191.7	191.2	191.7	192.2	192.3	191.6	190.7	190.3	190.5
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1337.6	1344.0	1347.8	1352.9	1365.8
5°	1286.3	1310.7	1318.3	1337.6	1360.6
7.5°	1173.6	1247.9	1268.4	1314.5	1350.4
10°	1064.7	1139.0	1174.9	1283.8	1337.6
12.5°	1009.6	1053.1	1077.5	1229.9	1319.6
15°	975.0	1005.7	1023.7	1158.2	1299.1
17.5°	948.1	969.9	982.7	1087.7	1270.9
20°	931.4	941.7	953.2	1036.5	1238.9
22.5°	919.9	913.5	922.5	1000.6	1195.4
25°	912.2	887.9	898.1	972.4	1144.1
27.5°	918.6	864.8	868.6	946.8	1090.3
30°	919.9	836.6	837.9	919.9	1030.1
32.5°	910.9	807.2	808.4	886.6	962.2
35°	889.1	772.6	771.3	848.1	869.9
37.5°	859.7	735.4	735.4	805.9	768.7
40°	823.8	698.2	702.1	750.8	679.0
42.5°	780.2	658.5	663.7	677.8	612.4
45°	732.8	620.1	623.9	572.7	561.2
47.5°	680.3	580.4	581.7	475.3	544.5
50°	617.5	539.4	534.3	407.4	543.2
52.5°	562.4	494.5	479.2	369.0	493.3
55°	508.6	447.1	413.8	339.5	457.4
57.5°	461.2	385.6	353.6	304.9	449.7
60°	417.7	325.4	301.1	267.8	412.5
62.5°	381.8	280.6	275.5	242.1	374.1
65°	343.4	249.8	248.6	220.4	317.7
67.5°	306.2	229.3	228.1	199.9	242.1
70°	266.5	207.6	205.0	178.1	179.4
72.5°	225.5	183.2	180.6	160.1	148.6
75°	184.5	155.0	153.7	139.6	120.4
77.5°	144.8	123.0	125.6	112.7	88.4
80°	103.8	89.7	92.2	80.7	66.6
82.5°	69.2	58.9	61.5	51.2	44.8
85°	38.4	33.3	34.6	26.9	20.5
87.5°	17.9	15.4	15.4	10.2	6.4
90°	5.6	3.6	3.3	2.3	1.3
92.5°	34.8	24.8	22.5	13.8	5.1
95°	85.7	48.3	44.2	28.3	12.3
97.5°	115.4	53.0	49.5	35.4	21.3
100°	126.2	57.0	53.8	41.0	28.3
102.5°	131.2	61.0	58.0	46.1	34.2
105°	134.9	66.9	64.3	54.2	44.2
107.5°	135.6	75.6	73.2	63.8	54.4
110°	134.5	80.5	78.3	69.9	61.3



TEST NUMBER: P933937

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	134.5	86.4	84.3	76.3	68.2
115°	135.8	95.2	93.4	85.9	78.4
117.5°	138.3	103.8	102.1	95.3	88.6
120°	140.4	108.8	107.2	100.9	94.5
122.5°	143.3	114.7	113.1	106.7	100.2
125°	147.3	122.3	120.9	115.0	109.1
127.5°	151.3	129.6	128.1	122.1	116.2
130°	154.2	134.4	132.8	126.5	120.1
132.5°	156.6	138.5	136.8	130.5	124.1
135°	159.1	143.1	141.6	135.8	130.0
137.5°	163.0	149.0	147.5	141.8	136.1
140°	165.4	153.0	151.6	146.3	141.0
142.5°	167.2	155.9	154.7	149.7	144.9
145°	169.9	160.4	159.3	155.0	150.8
147.5°	173.6	166.0	165.0	160.8	156.6
150°	175.6	169.0	168.1	164.2	160.5
152.5°	176.9	170.9	170.2	167.3	164.5
155°	179.7	175.2	174.7	172.5	170.4
157.5°	182.5	179.4	178.9	176.8	174.8
160°	183.8	181.3	180.9	179.4	177.7
162.5°	185.2	183.4	183.0	181.8	180.6
165°	187.1	186.3	186.0	184.9	183.9
167.5°	188.7	188.0	187.8	187.3	186.8
170°	190.0	189.9	189.8	189.3	188.8
172.5°	190.0	190.0	190.0	189.9	189.8
175°	190.8	191.2	191.2	191.2	191.2
177.5°	190.9	191.2	191.2	191.2	191.2
180°	191.2	191.2	191.2	191.2	191.2



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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	14.15	15.28	14.87	16.02	16.90	16.98	18.10	17.70	18.84	19.73
	3H	14.65	15.66	15.38	16.41	17.33	18.34	19.35	19.07	20.10	21.02
	4H	14.85	15.81	15.61	16.57	17.50	18.80	19.75	19.55	20.51	21.44
	6H	14.99	15.87	15.75	16.64	17.58	19.09	19.97	19.86	20.74	21.68
	8H	14.99	15.83	15.77	16.62	17.57	19.17	20.01	19.95	20.80	21.75
	12H	14.97	15.77	15.76	16.56	17.53	19.22	20.02	20.00	20.80	21.77
4H	2H	15.22	16.17	15.97	16.93	17.86	17.42	18.37	18.17	19.13	20.06
	3H	16.27	17.06	17.04	17.86	18.80	18.95	19.74	19.72	20.54	21.48
	4H	16.55	17.28	17.34	18.07	19.05	19.48	20.21	20.27	21.00	21.98
	6H	16.69	17.32	17.50	18.14	19.12	19.86	20.49	20.67	21.31	22.29
	8H	16.71	17.29	17.51	18.11	19.10	19.98	20.56	20.78	21.38	22.37
	12H	16.69	17.21	17.51	18.05	19.05	20.04	20.57	20.87	21.41	22.41
8H	4H	17.03	17.61	17.83	18.43	19.42	19.63	20.22	20.44	21.03	22.02
	6H	17.30	17.79	18.14	18.64	19.64	20.08	20.56	20.91	21.42	22.41
	8H	17.35	17.78	18.19	18.63	19.64	20.23	20.66	21.08	21.52	22.53
	12H	17.34	17.72	18.19	18.57	19.63	20.34	20.72	21.19	21.57	22.63
12H	4H	17.05	17.57	17.87	18.41	19.41	19.61	20.13	20.43	20.97	21.97
	6H	17.36	17.79	18.21	18.65	19.66	20.08	20.51	20.92	21.36	22.37
	8H	17.44	17.82	18.29	18.67	19.73	20.25	20.63	21.10	21.47	22.54