

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: P934339

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934339
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

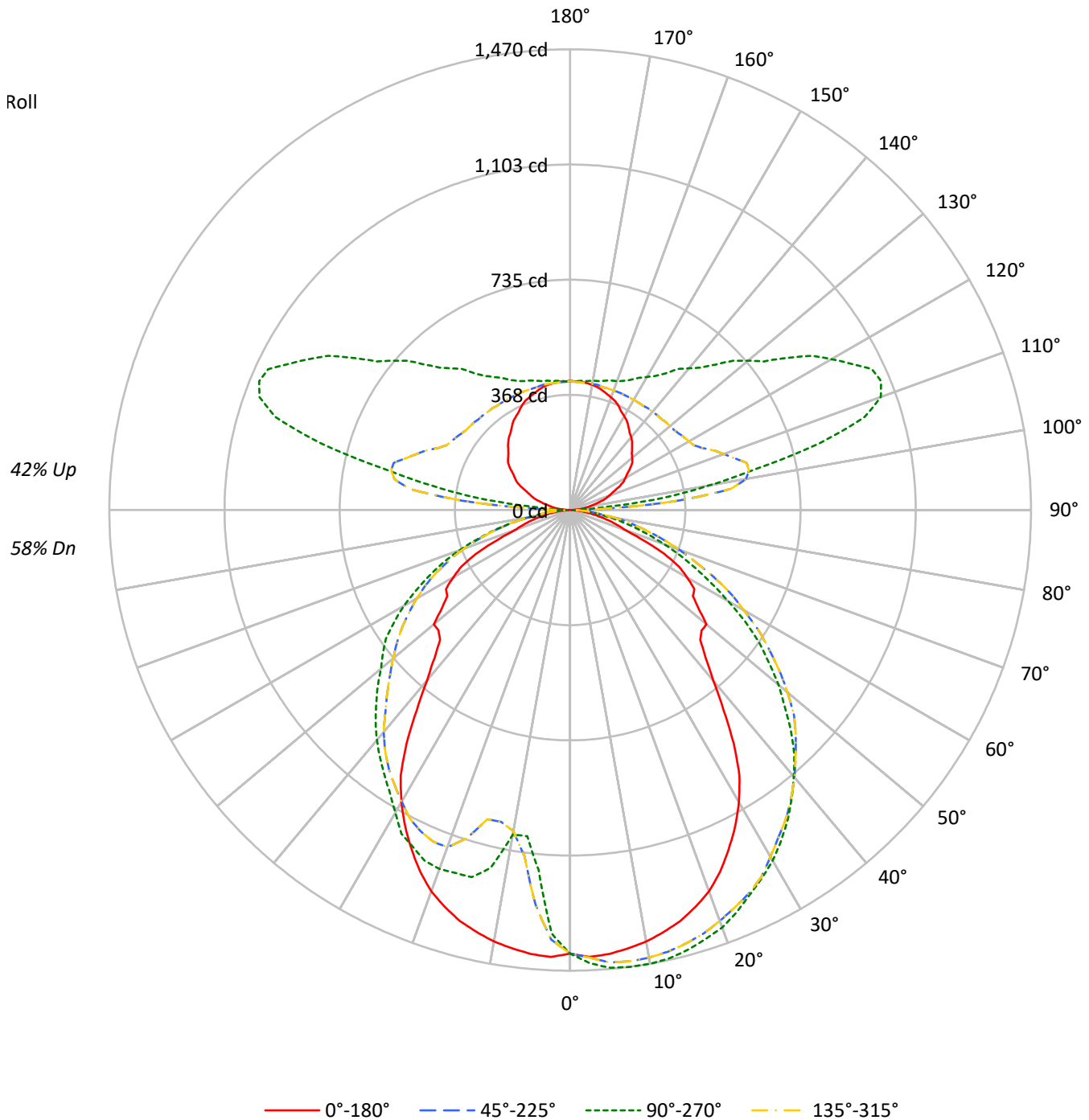
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6336.7 lumens
Efficiency: N/A
Efficacy: 116.1 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: General Diffuse

Input Watts (W): 54.6
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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CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3500K

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	50	30	10	0
RCR																					
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8755	8755	8755	8755
5°	8817	8838	8817	6949
10°	8755	8705	8755	6224
15°	8657	8517	8657	7112
20°	8472	8293	8472	7127
25°	8099	7968	8099	6976
30°	7616	7697	7616	6644
35°	6786	7355	6786	6280
40°	5651	6952	5651	6005
45°	5047	6481	5047	5688
50°	5357	5918	5357	5370
55°	5035	5312	5035	5186
60°	5184	4511	5184	4750
65°	4693	3730	4693	4169
70°	3243	2972	3243	3494
75°	2833	2197	2833	2631
80°	2265	1452	2265	1581
85°	1276	770	1276	654

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7740 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	2.0
10°-20°	362.7	5.7
20°-30°	560.7	8.8
30°-40°	669.4	10.6
40°-50°	673.3	10.6
50°-60°	585.8	9.2
60°-70°	415.4	6.6
70°-80°	219.7	3.5
80°-90°	56.3	0.9
90°-100°	200.4	3.2
100°-110°	527.0	8.3
110°-120°	546.4	8.6
120°-130°	438.3	6.9
130°-140°	343.9	5.4
140°-150°	264.0	4.2
150°-160°	190.1	3.0
160°-170°	116.3	1.8
170°-180°	39.3	0.6
0°-30°	1051.2	16.6
0°-40°	1720.5	27.2
0°-60°	2979.6	47.0
0°-90°	3671.1	57.9
90°-120°	1273.8	20.1
90°-150°	2319.9	36.6
90°-180°	2666.0	42.1
0°-180°	6336.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1415	1415	1415	1415	1415	
5°	1422	1466	1422	1153	1422	135
15°	1358	1453	1358	1213	1358	382
25°	1196	1355	1196	1186	1196	549
35°	909	1209	909	1032	909	562
45°	586	996	586	874	586	470
55°	478	735	478	718	478	439
65°	332	443	332	495	332	317
75°	126	210	126	252	126	132
85°	21	54	21	46	21	29
90°	3	10	3	10	3	3
95°	26	121	26	121	26	29
105°	95	825	95	825	95	101
115°	169	1062	169	1062	169	167
125°	235	846	235	846	235	208
135°	280	656	280	656	280	216
145°	324	533	324	533	324	203
155°	366	459	366	459	366	168
165°	395	427	395	427	395	112
175°	411	414	411	414	411	39
180°	411	411	411	411	411	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1427.3	1427.3	1435.3	1438.0	1438.0	1434.0	1430.0	1434.0	1446.0	1450.1	1448.7
5°	1421.9	1432.7	1447.4	1450.1	1452.7	1451.4	1448.7	1451.4	1464.8	1467.5	1468.8
7.5°	1411.2	1431.3	1450.1	1454.1	1458.1	1454.1	1452.7	1455.4	1468.8	1471.5	1471.5
10°	1397.8	1426.0	1447.4	1450.1	1454.1	1450.1	1450.1	1455.4	1468.8	1471.5	1472.8
12.5°	1379.1	1417.9	1438.0	1440.7	1446.0	1444.7	1443.4	1448.7	1462.1	1464.8	1464.8
15°	1357.7	1403.2	1421.9	1424.6	1434.0	1431.3	1431.3	1436.7	1451.4	1455.4	1454.1
17.5°	1328.2	1384.5	1405.9	1409.9	1416.6	1415.2	1416.6	1421.9	1435.3	1438.0	1439.3
20°	1294.7	1359.0	1384.5	1388.5	1395.2	1395.2	1395.2	1401.9	1415.2	1420.6	1420.6
22.5°	1249.2	1332.2	1359.0	1361.7	1369.7	1369.7	1372.4	1381.8	1393.8	1395.2	1395.2
25°	1195.7	1302.8	1325.5	1333.6	1341.6	1345.6	1349.6	1355.0	1359.0	1357.7	1359.0
27.5°	1139.4	1265.3	1294.7	1300.1	1310.8	1314.8	1320.2	1321.5	1322.9	1326.9	1324.2
30°	1076.5	1213.1	1257.3	1262.6	1280.0	1282.7	1277.3	1280.0	1286.7	1289.4	1292.1
32.5°	1005.5	1135.4	1218.4	1230.5	1246.5	1238.5	1237.2	1241.2	1251.9	1251.9	1254.6
35°	909.1	1075.2	1182.3	1193.0	1205.0	1195.7	1201.0	1202.4	1209.1	1213.1	1211.7
37.5°	803.4	1022.9	1144.8	1152.8	1162.2	1150.1	1158.2	1162.2	1167.5	1164.9	1164.9
40°	709.6	941.3	1100.6	1106.0	1114.0	1104.6	1112.7	1115.3	1118.0	1115.3	1114.0
42.5°	640.0	851.6	1053.7	1060.4	1055.1	1061.8	1064.4	1069.8	1065.8	1060.4	1060.4
45°	586.5	827.5	1002.9	1010.9	1002.9	1013.6	1017.6	1017.6	1005.5	1002.9	1001.5
47.5°	569.0	779.3	952.0	952.0	948.0	961.4	968.0	958.7	946.6	942.6	942.6
50°	567.7	725.7	882.4	877.0	895.7	911.8	905.1	895.7	886.4	871.6	871.6
52.5°	515.5	660.1	792.6	812.7	842.2	851.6	840.8	831.5	815.4	808.7	803.4
55°	478.0	591.8	711.0	751.1	781.9	794.0	773.9	764.5	740.4	736.4	733.7
57.5°	470.0	492.7	636.0	686.9	724.4	723.0	711.0	693.6	673.5	669.5	668.1
60°	431.1	356.2	555.7	615.9	654.7	650.7	640.0	623.9	605.2	602.5	599.8
62.5°	391.0	258.4	464.6	532.9	587.8	586.5	577.1	553.0	539.6	532.9	527.5
65°	332.1	216.9	330.7	443.2	522.2	524.9	504.8	487.4	472.6	464.6	463.3
67.5°	253.1	176.7	223.6	369.5	459.3	456.6	431.1	423.1	404.4	400.3	392.3
70°	187.5	117.8	155.3	299.9	397.7	391.0	370.9	361.5	344.1	334.7	329.4
72.5°	155.3	95.1	113.8	233.0	334.7	326.7	309.3	298.6	283.9	275.8	270.5
75°	125.9	100.4	87.0	172.7	271.8	266.4	250.4	239.7	227.6	216.9	218.2
77.5°	92.4	93.7	69.6	127.2	215.6	207.5	198.2	184.8	179.4	168.7	168.7
80°	69.6	73.6	52.2	87.0	155.3	155.3	147.3	137.9	128.5	123.2	123.2
82.5°	46.9	46.9	38.8	54.9	105.8	101.8	96.4	93.7	88.4	85.7	85.7
85°	21.4	26.8	24.1	33.5	57.6	60.3	60.3	57.6	56.2	53.6	54.9
87.5°	6.7	12.1	14.7	18.7	29.5	30.8	32.1	32.1	32.1	33.5	33.5
90°	2.8	5.0	7.2	7.8	12.1	18.0	21.0	18.7	13.9	10.4	10.4
92.5°	11.1	29.8	48.6	53.3	74.9	103.7	118.1	103.5	74.3	52.4	50.3
95°	26.5	60.8	95.2	103.7	184.2	291.6	345.3	308.1	233.8	178.0	171.7
97.5°	45.8	76.1	106.4	114.0	248.2	427.2	516.6	493.2	446.1	410.9	398.8
100°	60.7	88.2	115.7	122.6	271.4	470.1	569.3	571.0	574.5	577.1	562.8
102.5°	73.4	99.1	124.7	131.1	282.2	483.5	584.2	614.1	674.0	718.9	706.7
105°	95.0	116.7	138.4	143.8	290.0	485.0	582.5	649.6	783.8	884.5	877.9
107.5°	117.0	137.3	157.5	162.5	291.5	463.4	549.4	643.0	830.1	970.5	972.2
110°	131.9	150.1	168.4	173.0	289.3	444.3	521.8	626.4	835.8	992.7	999.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	146.6	164.0	181.4	185.8	289.4	427.7	496.7	603.9	818.0	978.6	989.1
115°	168.6	184.7	200.8	204.8	292.1	408.5	466.7	569.8	776.1	930.8	945.5
117.5°	190.4	205.0	219.6	223.2	297.5	396.5	446.0	539.1	725.3	864.9	881.1
120°	203.1	216.8	230.6	234.0	301.9	392.4	437.7	522.7	692.9	820.4	836.2
122.5°	215.6	229.4	243.2	246.7	308.2	390.3	431.3	507.9	661.2	776.0	791.6
125°	234.6	247.2	259.8	263.0	316.8	388.6	424.4	489.5	619.7	717.2	731.5
127.5°	250.0	262.8	275.6	278.8	325.4	387.6	418.6	474.5	586.2	670.0	682.1
130°	258.3	272.1	285.8	289.2	331.6	388.1	416.4	466.1	565.7	640.3	651.4
132.5°	266.9	280.6	294.4	297.8	336.7	388.6	414.5	459.1	548.1	614.8	624.8
135°	279.6	292.1	304.6	307.7	342.2	388.2	411.2	448.5	523.1	579.0	587.6
137.5°	292.5	304.9	317.2	320.4	350.4	390.5	410.6	442.1	505.1	552.4	559.5
140°	303.3	314.7	326.1	328.9	355.5	391.0	408.7	436.0	490.4	531.2	537.8
142.5°	311.5	322.1	332.6	335.3	359.7	392.4	408.7	432.7	480.4	516.3	522.0
145°	324.3	333.5	342.7	345.0	365.3	392.4	406.0	425.5	464.6	494.0	498.3
147.5°	337.0	345.9	354.9	357.1	373.4	395.1	406.0	421.3	452.1	475.2	478.8
150°	345.3	353.4	361.4	363.5	377.7	396.5	406.0	419.0	445.0	464.4	467.3
152.5°	353.7	359.9	366.1	367.6	380.3	397.4	406.0	417.0	439.3	455.9	458.0
155°	366.5	371.1	375.5	376.7	386.4	399.4	406.0	414.8	432.5	445.7	447.1
157.5°	375.9	380.3	384.7	385.8	392.5	401.5	406.0	412.8	426.6	436.8	437.8
160°	382.2	385.6	389.0	389.9	395.3	402.4	406.0	411.9	423.6	432.5	433.0
162.5°	388.6	391.1	393.7	394.4	398.2	403.4	406.0	411.0	420.9	428.3	428.8
165°	395.4	397.8	400.1	400.7	402.5	404.8	406.0	409.5	416.6	421.9	422.6
167.5°	401.8	402.8	404.0	404.3	405.8	407.7	408.7	411.1	415.7	419.2	419.4
170°	406.0	407.0	408.2	408.5	408.6	408.6	408.7	411.1	415.7	419.2	419.2
172.5°	408.2	408.5	408.6	408.7	408.7	408.7	408.7	410.5	414.2	416.9	416.8
175°	411.2	411.2	411.2	411.2	410.4	409.3	408.7	409.9	412.2	413.9	413.9
177.5°	411.2	411.2	411.2	411.2	410.6	409.7	409.3	410.2	412.0	413.4	413.1
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1451.4	1447.4	1451.4	1448.7	1450.1	1446.0	1434.0	1430.0	1434.0	1438.0	1438.0
5°	1468.8	1466.1	1468.8	1468.8	1467.5	1464.8	1451.4	1448.7	1451.4	1452.7	1450.1
7.5°	1474.2	1470.1	1474.2	1471.5	1471.5	1468.8	1455.4	1452.7	1454.1	1458.1	1454.1
10°	1474.2	1470.1	1474.2	1472.8	1471.5	1468.8	1455.4	1450.1	1450.1	1454.1	1450.1
12.5°	1467.5	1464.8	1467.5	1464.8	1464.8	1462.1	1448.7	1443.4	1444.7	1446.0	1440.7
15°	1456.8	1452.7	1456.8	1454.1	1455.4	1451.4	1436.7	1431.3	1431.3	1434.0	1424.6
17.5°	1440.7	1435.3	1440.7	1439.3	1438.0	1435.3	1421.9	1416.6	1415.2	1416.6	1409.9
20°	1421.9	1417.9	1421.9	1420.6	1420.6	1415.2	1401.9	1395.2	1395.2	1395.2	1388.5
22.5°	1392.5	1388.5	1392.5	1395.2	1395.2	1393.8	1381.8	1372.4	1369.7	1369.7	1361.7
25°	1359.0	1355.0	1359.0	1359.0	1357.7	1359.0	1355.0	1349.6	1345.6	1341.6	1333.6
27.5°	1326.9	1324.2	1326.9	1324.2	1326.9	1322.9	1321.5	1320.2	1314.8	1310.8	1300.1
30°	1294.7	1292.1	1294.7	1292.1	1289.4	1286.7	1280.0	1277.3	1282.7	1280.0	1262.6
32.5°	1254.6	1251.9	1254.6	1254.6	1251.9	1251.9	1241.2	1237.2	1238.5	1246.5	1230.5
35°	1213.1	1209.1	1213.1	1211.7	1213.1	1209.1	1202.4	1201.0	1195.7	1205.0	1193.0
37.5°	1164.9	1160.9	1164.9	1164.9	1164.9	1167.5	1162.2	1158.2	1150.1	1162.2	1152.8
40°	1115.3	1110.0	1115.3	1114.0	1115.3	1118.0	1115.3	1112.7	1104.6	1114.0	1106.0
42.5°	1059.1	1057.8	1059.1	1060.4	1060.4	1065.8	1069.8	1064.4	1061.8	1055.1	1060.4
45°	998.8	996.2	998.8	1001.5	1002.9	1005.5	1017.6	1017.6	1013.6	1002.9	1010.9
47.5°	934.6	927.9	934.6	942.6	942.6	946.6	958.7	968.0	961.4	948.0	952.0
50°	866.3	867.6	866.3	871.6	871.6	886.4	895.7	905.1	911.8	895.7	877.0
52.5°	799.3	798.0	799.3	803.4	808.7	815.4	831.5	840.8	851.6	842.2	812.7
55°	732.4	735.1	732.4	733.7	736.4	740.4	764.5	773.9	794.0	781.9	751.1
57.5°	665.4	661.4	665.4	668.1	669.5	673.5	693.6	711.0	723.0	724.4	686.9
60°	587.8	582.4	587.8	599.8	602.5	605.2	623.9	640.0	650.7	654.7	615.9
62.5°	519.5	510.1	519.5	527.5	532.9	539.6	553.0	577.1	586.5	587.8	532.9
65°	447.2	443.2	447.2	463.3	464.6	472.6	487.4	504.8	524.9	522.2	443.2
67.5°	381.6	381.6	381.6	392.3	400.3	404.4	423.1	431.1	456.6	459.3	369.5
70°	321.3	320.0	321.3	329.4	334.7	344.1	361.5	370.9	391.0	397.7	299.9
72.5°	263.8	262.4	263.8	270.5	275.8	283.9	298.6	309.3	326.7	334.7	233.0
75°	212.9	210.2	212.9	218.2	216.9	227.6	239.7	250.4	266.4	271.8	172.7
77.5°	163.3	163.3	163.3	168.7	168.7	179.4	184.8	198.2	207.5	215.6	127.2
80°	121.8	120.5	121.8	123.2	123.2	128.5	137.9	147.3	155.3	155.3	87.0
82.5°	85.7	83.0	85.7	85.7	85.7	88.4	93.7	96.4	101.8	105.8	54.9
85°	53.6	53.6	53.6	54.9	53.6	56.2	57.6	60.3	60.3	57.6	33.5
87.5°	34.8	33.5	34.8	33.5	33.5	32.1	32.1	32.1	30.8	29.5	18.7
90°	10.4	10.4	10.4	10.4	10.4	13.9	18.7	21.0	18.0	12.1	7.8
92.5°	42.0	33.7	42.0	50.3	52.4	74.3	103.5	118.1	103.7	74.9	53.3
95°	146.4	121.1	146.4	171.7	178.0	233.8	308.1	345.3	291.6	184.2	103.7
97.5°	350.8	302.8	350.8	398.8	410.9	446.1	493.2	516.6	427.2	248.2	114.0
100°	505.5	448.2	505.5	562.8	577.1	574.5	571.0	569.3	470.1	271.4	122.6
102.5°	657.6	608.5	657.6	706.7	718.9	674.0	614.1	584.2	483.5	282.2	131.1
105°	851.6	825.1	851.6	877.9	884.5	783.8	649.6	582.5	485.0	290.0	143.8
107.5°	978.5	984.9	978.5	972.2	970.5	830.1	643.0	549.4	463.4	291.5	162.5
110°	1027.0	1054.5	1027.0	999.6	992.7	835.8	626.4	521.8	444.3	289.3	173.0



TEST NUMBER: P934339

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1031.3	1073.5	1031.3	989.1	978.6	818.0	603.9	496.7	427.7	289.4	185.8
115°	1003.9	1062.5	1003.9	945.5	930.8	776.1	569.8	466.7	408.5	292.1	204.8
117.5°	946.0	1010.9	946.0	881.1	864.9	725.3	539.1	446.0	396.5	297.5	223.2
120°	899.2	962.3	899.2	836.2	820.4	692.9	522.7	437.7	392.4	301.9	234.0
122.5°	853.8	915.9	853.8	791.6	776.0	661.2	507.9	431.3	390.3	308.2	246.7
125°	788.8	846.1	788.8	731.5	717.2	619.7	489.5	424.4	388.6	316.8	263.0
127.5°	730.4	778.8	730.4	682.1	670.0	586.2	474.5	418.6	387.6	325.4	278.8
130°	696.1	740.7	696.1	651.4	640.3	565.7	466.1	416.4	388.1	331.6	289.2
132.5°	664.8	704.8	664.8	624.8	614.8	548.1	459.1	414.5	388.6	336.7	297.8
135°	622.1	656.5	622.1	587.6	579.0	523.1	448.5	411.2	388.2	342.2	307.7
137.5°	587.8	616.0	587.8	559.5	552.4	505.1	442.1	410.6	390.5	350.4	320.4
140°	564.1	590.6	564.1	537.8	531.2	490.4	436.0	408.7	391.0	355.5	328.9
142.5°	544.7	567.3	544.7	522.0	516.3	480.4	432.7	408.7	392.4	359.7	335.3
145°	515.5	532.6	515.5	498.3	494.0	464.6	425.5	406.0	392.4	365.3	345.0
147.5°	493.0	507.2	493.0	478.8	475.2	452.1	421.3	406.0	395.1	373.4	357.1
150°	478.9	490.4	478.9	467.3	464.4	445.0	419.0	406.0	396.5	377.7	363.5
152.5°	466.8	475.5	466.8	458.0	455.9	439.3	417.0	406.0	397.4	380.3	367.6
155°	452.9	458.6	452.9	447.1	445.7	432.5	414.8	406.0	399.4	386.4	376.7
157.5°	441.9	446.0	441.9	437.8	436.8	426.6	412.8	406.0	401.5	392.5	385.8
160°	435.3	437.7	435.3	433.0	432.5	423.6	411.9	406.0	402.4	395.3	389.9
162.5°	431.0	433.3	431.0	428.8	428.3	420.9	411.0	406.0	403.4	398.2	394.4
165°	424.9	427.2	424.9	422.6	421.9	416.6	409.5	406.0	404.8	402.5	400.7
167.5°	420.4	421.4	420.4	419.4	419.2	415.7	411.1	408.7	407.7	405.8	404.3
170°	419.2	419.2	419.2	419.2	419.2	415.7	411.1	408.7	408.6	408.6	408.5
172.5°	415.9	415.1	415.9	416.8	416.9	414.2	410.5	408.7	408.7	408.7	408.7
175°	413.9	413.9	413.9	413.9	413.9	412.2	409.9	408.7	409.3	410.4	411.2
177.5°	412.2	411.2	412.2	413.1	413.4	412.0	410.2	409.3	409.7	410.6	411.2
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



TEST NUMBER: P934339

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1435.3	1427.3	1427.3	1413.9	1408.6	1404.5	1397.8	1377.8	1372.4	1367.0	1375.1
5°	1447.4	1432.7	1421.9	1397.8	1377.8	1369.7	1344.3	1296.1	1263.9	1239.8	1226.5
7.5°	1450.1	1431.3	1411.2	1373.7	1325.5	1304.1	1226.5	1138.1	1114.0	1092.6	1079.2
10°	1447.4	1426.0	1397.8	1341.6	1227.8	1190.3	1112.7	1055.1	1040.3	1036.3	1040.3
12.5°	1438.0	1417.9	1379.1	1285.4	1126.0	1100.6	1055.1	1021.6	1018.9	1025.6	1061.8
15°	1421.9	1403.2	1357.7	1210.4	1069.8	1051.1	1018.9	1006.9	1021.6	1068.5	1176.9
17.5°	1405.9	1384.5	1328.2	1136.8	1027.0	1013.6	990.8	1014.9	1097.9	1160.9	1197.0
20°	1384.5	1359.0	1294.7	1083.2	996.2	984.1	973.4	1081.9	1144.8	1167.5	1187.6
22.5°	1359.0	1332.2	1249.2	1045.7	964.0	954.7	961.4	1119.3	1144.8	1160.9	1178.3
25°	1325.5	1302.8	1195.7	1016.2	938.6	927.9	953.3	1115.3	1130.1	1134.1	1168.9
27.5°	1294.7	1265.3	1139.4	989.5	907.8	903.8	960.0	1097.9	1108.6	1112.7	1150.1
30°	1257.3	1213.1	1076.5	961.4	875.7	874.3	961.4	1076.5	1073.8	1084.5	1122.0
32.5°	1218.4	1135.4	1005.5	926.5	844.9	843.5	952.0	1044.4	1041.7	1056.4	1084.5
35°	1182.3	1075.2	909.1	886.4	806.0	807.4	929.2	1006.9	1008.2	1021.6	1039.0
37.5°	1144.8	1022.9	803.4	842.2	768.5	768.5	898.4	972.1	969.4	973.4	997.5
40°	1100.6	941.3	709.6	784.6	733.7	729.7	860.9	934.6	925.2	923.9	957.3
42.5°	1053.7	851.6	640.0	708.3	693.6	688.2	815.4	889.0	871.6	875.7	918.5
45°	1002.9	827.5	586.5	598.5	652.1	648.0	765.9	836.8	824.8	835.5	879.7
47.5°	952.0	779.3	569.0	496.7	607.9	606.5	711.0	786.0	779.3	790.0	836.8
50°	882.4	725.7	567.7	425.8	558.3	563.7	645.4	736.4	736.4	745.8	795.3
52.5°	792.6	660.1	515.5	385.6	500.8	516.8	587.8	693.6	696.2	705.6	749.8
55°	711.0	591.8	478.0	354.8	432.5	467.3	531.6	649.4	654.7	664.1	704.3
57.5°	636.0	492.7	470.0	318.7	369.5	403.0	482.0	606.5	609.2	617.2	656.1
60°	555.7	356.2	431.1	279.8	314.6	340.1	436.5	555.7	565.0	570.4	603.9
62.5°	464.6	258.4	391.0	253.1	287.9	293.2	399.0	507.5	519.5	523.5	543.6
65°	330.7	216.9	332.1	230.3	259.8	261.1	358.8	457.9	468.6	475.3	490.0
67.5°	223.6	176.7	253.1	208.9	238.3	239.7	320.0	400.3	415.1	420.4	429.8
70°	155.3	117.8	187.5	186.1	214.2	216.9	278.5	348.1	361.5	365.5	370.9
72.5°	113.8	95.1	155.3	167.4	188.8	191.5	235.7	289.2	302.6	306.6	309.3
75°	87.0	100.4	125.9	145.9	160.7	162.0	192.8	235.7	245.0	247.7	249.0
77.5°	69.6	93.7	92.4	117.8	131.2	128.5	151.3	182.1	190.1	190.1	190.1
80°	52.2	73.6	69.6	84.4	96.4	93.7	108.5	129.9	132.6	135.2	133.9
82.5°	38.8	46.9	46.9	53.6	64.3	61.6	72.3	84.4	84.4	84.4	87.0
85°	24.1	26.8	21.4	28.1	36.2	34.8	40.2	45.5	46.9	46.9	44.2
87.5°	14.7	12.1	6.7	10.7	16.1	16.1	18.7	20.1	18.7	18.7	18.7
90°	7.2	5.0	2.8	5.0	7.2	7.8	12.1	18.0	21.0	18.7	13.9
92.5°	48.6	29.8	11.1	29.8	48.6	53.3	74.9	103.7	118.1	103.5	74.3
95°	95.2	60.8	26.5	60.8	95.2	103.7	184.2	291.6	345.3	308.1	233.8
97.5°	106.4	76.1	45.8	76.1	106.4	114.0	248.2	427.2	516.6	493.2	446.1
100°	115.7	88.2	60.7	88.2	115.7	122.6	271.4	470.1	569.3	571.0	574.5
102.5°	124.7	99.1	73.4	99.1	124.7	131.1	282.2	483.5	584.2	614.1	674.0
105°	138.4	116.7	95.0	116.7	138.4	143.8	290.0	485.0	582.5	649.6	783.8
107.5°	157.5	137.3	117.0	137.3	157.5	162.5	291.5	463.4	549.4	643.0	830.1
110°	168.4	150.1	131.9	150.1	168.4	173.0	289.3	444.3	521.8	626.4	835.8



TEST NUMBER: P934339

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	181.4	164.0	146.6	164.0	181.4	185.8	289.4	427.7	496.7	603.9	818.0
115°	200.8	184.7	168.6	184.7	200.8	204.8	292.1	408.5	466.7	569.8	776.1
117.5°	219.6	205.0	190.4	205.0	219.6	223.2	297.5	396.5	446.0	539.1	725.3
120°	230.6	216.8	203.1	216.8	230.6	234.0	301.9	392.4	437.7	522.7	692.9
122.5°	243.2	229.4	215.6	229.4	243.2	246.7	308.2	390.3	431.3	507.9	661.2
125°	259.8	247.2	234.6	247.2	259.8	263.0	316.8	388.6	424.4	489.5	619.7
127.5°	275.6	262.8	250.0	262.8	275.6	278.8	325.4	387.6	418.6	474.5	586.2
130°	285.8	272.1	258.3	272.1	285.8	289.2	331.6	388.1	416.4	466.1	565.7
132.5°	294.4	280.6	266.9	280.6	294.4	297.8	336.7	388.6	414.5	459.1	548.1
135°	304.6	292.1	279.6	292.1	304.6	307.7	342.2	388.2	411.2	448.5	523.1
137.5°	317.2	304.9	292.5	304.9	317.2	320.4	350.4	390.5	410.6	442.1	505.1
140°	326.1	314.7	303.3	314.7	326.1	328.9	355.5	391.0	408.7	436.0	490.4
142.5°	332.6	322.1	311.5	322.1	332.6	335.3	359.7	392.4	408.7	432.7	480.4
145°	342.7	333.5	324.3	333.5	342.7	345.0	365.3	392.4	406.0	425.5	464.6
147.5°	354.9	345.9	337.0	345.9	354.9	357.1	373.4	395.1	406.0	421.3	452.1
150°	361.4	353.4	345.3	353.4	361.4	363.5	377.7	396.5	406.0	419.0	445.0
152.5°	366.1	359.9	353.7	359.9	366.1	367.6	380.3	397.4	406.0	417.0	439.3
155°	375.5	371.1	366.5	371.1	375.5	376.7	386.4	399.4	406.0	414.8	432.5
157.5°	384.7	380.3	375.9	380.3	384.7	385.8	392.5	401.5	406.0	412.8	426.6
160°	389.0	385.6	382.2	385.6	389.0	389.9	395.3	402.4	406.0	411.9	423.6
162.5°	393.7	391.1	388.6	391.1	393.7	394.4	398.2	403.4	406.0	411.0	420.9
165°	400.1	397.8	395.4	397.8	400.1	400.7	402.5	404.8	406.0	409.5	416.6
167.5°	404.0	402.8	401.8	402.8	404.0	404.3	405.8	407.7	408.7	411.1	415.7
170°	408.2	407.0	406.0	407.0	408.2	408.5	408.6	408.6	408.7	411.1	415.7
172.5°	408.6	408.5	408.2	408.5	408.6	408.7	408.7	408.7	408.7	410.5	414.2
175°	411.2	411.2	411.2	411.2	411.2	411.2	410.4	409.3	408.7	409.9	412.2
177.5°	411.2	411.2	411.2	411.2	411.2	411.2	410.6	409.7	409.3	410.2	412.0
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



TEST NUMBER: P934339

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1365.7	1361.7	1367.0	1352.3	1367.0	1361.7	1365.7	1375.1	1367.0	1372.4	1377.8
5°	1198.3	1191.6	1170.2	1152.8	1170.2	1191.6	1198.3	1226.5	1239.8	1263.9	1296.1
7.5°	1071.1	1065.8	1060.4	1049.7	1060.4	1065.8	1071.1	1079.2	1092.6	1114.0	1138.1
10°	1043.0	1044.4	1052.4	1051.1	1052.4	1044.4	1043.0	1040.3	1036.3	1040.3	1055.1
12.5°	1115.3	1127.4	1171.6	1168.9	1171.6	1127.4	1115.3	1061.8	1025.6	1018.9	1021.6
15°	1198.3	1202.4	1211.7	1213.1	1211.7	1202.4	1198.3	1176.9	1068.5	1021.6	1006.9
17.5°	1206.4	1207.7	1214.4	1214.4	1214.4	1207.7	1206.4	1197.0	1160.9	1097.9	1014.9
20°	1199.7	1202.4	1215.7	1218.4	1215.7	1202.4	1199.7	1187.6	1167.5	1144.8	1081.9
22.5°	1197.0	1202.4	1213.1	1211.7	1213.1	1202.4	1197.0	1178.3	1160.9	1144.8	1119.3
25°	1183.6	1183.6	1185.0	1186.3	1185.0	1183.6	1183.6	1168.9	1134.1	1130.1	1115.3
27.5°	1155.5	1158.2	1166.2	1164.9	1166.2	1158.2	1155.5	1150.1	1112.7	1108.6	1097.9
30°	1130.1	1127.4	1120.7	1115.3	1120.7	1127.4	1130.1	1122.0	1084.5	1073.8	1076.5
32.5°	1087.2	1080.5	1073.8	1069.8	1073.8	1080.5	1087.2	1084.5	1056.4	1041.7	1044.4
35°	1036.3	1037.7	1036.3	1032.3	1036.3	1037.7	1036.3	1039.0	1021.6	1008.2	1006.9
37.5°	1000.2	1002.9	1001.5	996.2	1001.5	1002.9	1000.2	997.5	973.4	969.4	972.1
40°	962.7	964.0	962.7	958.7	962.7	964.0	962.7	957.3	923.9	925.2	934.6
42.5°	926.5	925.2	921.2	918.5	921.2	925.2	926.5	918.5	875.7	871.6	889.0
45°	885.0	886.4	878.3	874.3	878.3	886.4	885.0	879.7	835.5	824.8	836.8
47.5°	843.5	843.5	836.8	832.8	836.8	843.5	843.5	836.8	790.0	779.3	786.0
50°	799.3	798.0	788.6	787.3	788.6	798.0	799.3	795.3	745.8	736.4	736.4
52.5°	748.5	748.5	749.8	752.5	749.8	748.5	748.5	749.8	705.6	696.2	693.6
55°	704.3	705.6	715.0	717.7	715.0	705.6	704.3	704.3	664.1	654.7	649.4
57.5°	658.8	658.8	665.4	665.4	665.4	658.8	658.8	656.1	617.2	609.2	606.5
60°	606.5	609.2	614.6	613.2	614.6	609.2	606.5	603.9	570.4	565.0	555.7
62.5°	551.6	554.3	555.7	553.0	555.7	554.3	551.6	543.6	523.5	519.5	507.5
65°	494.1	496.7	498.1	495.4	498.1	496.7	494.1	490.0	475.3	468.6	457.9
67.5°	435.2	433.8	432.5	437.8	432.5	433.8	435.2	429.8	420.4	415.1	400.3
70°	374.9	374.9	373.6	376.2	373.6	374.9	374.9	370.9	365.5	361.5	348.1
72.5°	310.6	309.3	314.6	310.6	314.6	309.3	310.6	309.3	306.6	302.6	289.2
75°	247.7	250.4	247.7	251.7	247.7	250.4	247.7	249.0	247.7	245.0	235.7
77.5°	188.8	191.5	188.8	188.8	188.8	191.5	188.8	190.1	190.1	190.1	182.1
80°	133.9	132.6	132.6	131.2	132.6	132.6	133.9	133.9	135.2	132.6	129.9
82.5°	85.7	84.4	84.4	87.0	84.4	84.4	85.7	87.0	84.4	84.4	84.4
85°	46.9	48.2	45.5	45.5	45.5	48.2	46.9	44.2	46.9	46.9	45.5
87.5°	17.4	16.1	16.1	16.1	16.1	16.1	17.4	18.7	18.7	18.7	20.1
90°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	13.9	18.7	21.0	18.0
92.5°	52.4	50.3	42.0	33.7	42.0	50.3	52.4	74.3	103.5	118.1	103.7
95°	178.0	171.7	146.4	121.1	146.4	171.7	178.0	233.8	308.1	345.3	291.6
97.5°	410.9	398.8	350.8	302.8	350.8	398.8	410.9	446.1	493.2	516.6	427.2
100°	577.1	562.8	505.5	448.2	505.5	562.8	577.1	574.5	571.0	569.3	470.1
102.5°	718.9	706.7	657.6	608.5	657.6	706.7	718.9	674.0	614.1	584.2	483.5
105°	884.5	877.9	851.6	825.1	851.6	877.9	884.5	783.8	649.6	582.5	485.0
107.5°	970.5	972.2	978.5	984.9	978.5	972.2	970.5	830.1	643.0	549.4	463.4
110°	992.7	999.6	1027.0	1054.5	1027.0	999.6	992.7	835.8	626.4	521.8	444.3



TEST NUMBER: P934339

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	978.6	989.1	1031.3	1073.5	1031.3	989.1	978.6	818.0	603.9	496.7	427.7
115°	930.8	945.5	1003.9	1062.5	1003.9	945.5	930.8	776.1	569.8	466.7	408.5
117.5°	864.9	881.1	946.0	1010.9	946.0	881.1	864.9	725.3	539.1	446.0	396.5
120°	820.4	836.2	899.2	962.3	899.2	836.2	820.4	692.9	522.7	437.7	392.4
122.5°	776.0	791.6	853.8	915.9	853.8	791.6	776.0	661.2	507.9	431.3	390.3
125°	717.2	731.5	788.8	846.1	788.8	731.5	717.2	619.7	489.5	424.4	388.6
127.5°	670.0	682.1	730.4	778.8	730.4	682.1	670.0	586.2	474.5	418.6	387.6
130°	640.3	651.4	696.1	740.7	696.1	651.4	640.3	565.7	466.1	416.4	388.1
132.5°	614.8	624.8	664.8	704.8	664.8	624.8	614.8	548.1	459.1	414.5	388.6
135°	579.0	587.6	622.1	656.5	622.1	587.6	579.0	523.1	448.5	411.2	388.2
137.5°	552.4	559.5	587.8	616.0	587.8	559.5	552.4	505.1	442.1	410.6	390.5
140°	531.2	537.8	564.1	590.6	564.1	537.8	531.2	490.4	436.0	408.7	391.0
142.5°	516.3	522.0	544.7	567.3	544.7	522.0	516.3	480.4	432.7	408.7	392.4
145°	494.0	498.3	515.5	532.6	515.5	498.3	494.0	464.6	425.5	406.0	392.4
147.5°	475.2	478.8	493.0	507.2	493.0	478.8	475.2	452.1	421.3	406.0	395.1
150°	464.4	467.3	478.9	490.4	478.9	467.3	464.4	445.0	419.0	406.0	396.5
152.5°	455.9	458.0	466.8	475.5	466.8	458.0	455.9	439.3	417.0	406.0	397.4
155°	445.7	447.1	452.9	458.6	452.9	447.1	445.7	432.5	414.8	406.0	399.4
157.5°	436.8	437.8	441.9	446.0	441.9	437.8	436.8	426.6	412.8	406.0	401.5
160°	432.5	433.0	435.3	437.7	435.3	433.0	432.5	423.6	411.9	406.0	402.4
162.5°	428.3	428.8	431.0	433.3	431.0	428.8	428.3	420.9	411.0	406.0	403.4
165°	421.9	422.6	424.9	427.2	424.9	422.6	421.9	416.6	409.5	406.0	404.8
167.5°	419.2	419.4	420.4	421.4	420.4	419.4	419.2	415.7	411.1	408.7	407.7
170°	419.2	419.2	419.2	419.2	419.2	419.2	419.2	415.7	411.1	408.7	408.6
172.5°	416.9	416.8	415.9	415.1	415.9	416.8	416.9	414.2	410.5	408.7	408.7
175°	413.9	413.9	413.9	413.9	413.9	413.9	413.9	412.2	409.9	408.7	409.3
177.5°	413.4	413.1	412.2	411.2	412.2	413.1	413.4	412.0	410.2	409.3	409.7
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1397.8	1404.5	1408.6	1413.9	1427.3
5°	1344.3	1369.7	1377.8	1397.8	1421.9
7.5°	1226.5	1304.1	1325.5	1373.7	1411.2
10°	1112.7	1190.3	1227.8	1341.6	1397.8
12.5°	1055.1	1100.6	1126.0	1285.4	1379.1
15°	1018.9	1051.1	1069.8	1210.4	1357.7
17.5°	990.8	1013.6	1027.0	1136.8	1328.2
20°	973.4	984.1	996.2	1083.2	1294.7
22.5°	961.4	954.7	964.0	1045.7	1249.2
25°	953.3	927.9	938.6	1016.2	1195.7
27.5°	960.0	903.8	907.8	989.5	1139.4
30°	961.4	874.3	875.7	961.4	1076.5
32.5°	952.0	843.5	844.9	926.5	1005.5
35°	929.2	807.4	806.0	886.4	909.1
37.5°	898.4	768.5	768.5	842.2	803.4
40°	860.9	729.7	733.7	784.6	709.6
42.5°	815.4	688.2	693.6	708.3	640.0
45°	765.9	648.0	652.1	598.5	586.5
47.5°	711.0	606.5	607.9	496.7	569.0
50°	645.4	563.7	558.3	425.8	567.7
52.5°	587.8	516.8	500.8	385.6	515.5
55°	531.6	467.3	432.5	354.8	478.0
57.5°	482.0	403.0	369.5	318.7	470.0
60°	436.5	340.1	314.6	279.8	431.1
62.5°	399.0	293.2	287.9	253.1	391.0
65°	358.8	261.1	259.8	230.3	332.1
67.5°	320.0	239.7	238.3	208.9	253.1
70°	278.5	216.9	214.2	186.1	187.5
72.5°	235.7	191.5	188.8	167.4	155.3
75°	192.8	162.0	160.7	145.9	125.9
77.5°	151.3	128.5	131.2	117.8	92.4
80°	108.5	93.7	96.4	84.4	69.6
82.5°	72.3	61.6	64.3	53.6	46.9
85°	40.2	34.8	36.2	28.1	21.4
87.5°	18.7	16.1	16.1	10.7	6.7
90°	12.1	7.8	7.2	5.0	2.8
92.5°	74.9	53.3	48.6	29.8	11.1
95°	184.2	103.7	95.2	60.8	26.5
97.5°	248.2	114.0	106.4	76.1	45.8
100°	271.4	122.6	115.7	88.2	60.7
102.5°	282.2	131.1	124.7	99.1	73.4
105°	290.0	143.8	138.4	116.7	95.0
107.5°	291.5	162.5	157.5	137.3	117.0
110°	289.3	173.0	168.4	150.1	131.9



TEST NUMBER: P934339

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	289.4	185.8	181.4	164.0	146.6
115°	292.1	204.8	200.8	184.7	168.6
117.5°	297.5	223.2	219.6	205.0	190.4
120°	301.9	234.0	230.6	216.8	203.1
122.5°	308.2	246.7	243.2	229.4	215.6
125°	316.8	263.0	259.8	247.2	234.6
127.5°	325.4	278.8	275.6	262.8	250.0
130°	331.6	289.2	285.8	272.1	258.3
132.5°	336.7	297.8	294.4	280.6	266.9
135°	342.2	307.7	304.6	292.1	279.6
137.5°	350.4	320.4	317.2	304.9	292.5
140°	355.5	328.9	326.1	314.7	303.3
142.5°	359.7	335.3	332.6	322.1	311.5
145°	365.3	345.0	342.7	333.5	324.3
147.5°	373.4	357.1	354.9	345.9	337.0
150°	377.7	363.5	361.4	353.4	345.3
152.5°	380.3	367.6	366.1	359.9	353.7
155°	386.4	376.7	375.5	371.1	366.5
157.5°	392.5	385.8	384.7	380.3	375.9
160°	395.3	389.9	389.0	385.6	382.2
162.5°	398.2	394.4	393.7	391.1	388.6
165°	402.5	400.7	400.1	397.8	395.4
167.5°	405.8	404.3	404.0	402.8	401.8
170°	408.6	408.5	408.2	407.0	406.0
172.5°	408.7	408.7	408.6	408.5	408.2
175°	410.4	411.2	411.2	411.2	411.2
177.5°	410.6	411.2	411.2	411.2	411.2
180°	411.2	411.2	411.2	411.2	411.2



TEST NUMBER: P934339

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3500K

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	13.04	13.98	13.93	14.89	16.04	15.87	16.80	16.75	17.71	18.86
	3H	13.53	14.37	14.42	15.28	16.46	17.22	18.06	18.11	18.97	20.15
	4H	13.72	14.51	14.63	15.44	16.62	17.66	18.46	18.58	19.38	20.57
	6H	13.84	14.58	14.77	15.50	16.70	17.95	18.68	18.88	19.61	20.81
	8H	13.85	14.54	14.78	15.49	16.69	18.03	18.72	18.96	19.67	20.87
	12H	13.82	14.48	14.76	15.42	16.65	18.07	18.73	19.00	19.67	20.89
4H	2H	14.08	14.88	15.00	15.80	16.99	16.29	17.08	17.20	18.00	19.19
	3H	15.12	15.78	16.05	16.73	17.93	17.80	18.46	18.73	19.41	20.61
	4H	15.40	16.00	16.34	16.95	18.18	18.33	18.93	19.27	19.88	21.11
	6H	15.53	16.05	16.48	17.02	18.25	18.69	19.22	19.65	20.19	21.41
	8H	15.53	16.02	16.49	16.98	18.23	18.80	19.29	19.76	20.25	21.50
	12H	15.50	15.94	16.48	16.92	18.17	18.86	19.30	19.84	20.28	21.53
8H	4H	15.86	16.34	16.81	17.31	18.55	18.46	18.94	19.41	19.91	21.15
	6H	16.12	16.52	17.10	17.53	18.77	18.90	19.30	19.88	20.30	21.54
	8H	16.16	16.52	17.15	17.51	18.77	19.05	19.40	20.04	20.40	21.66
	12H	16.15	16.46	17.15	17.45	18.76	19.15	19.46	20.14	20.45	21.76
12H	4H	15.87	16.30	16.84	17.29	18.53	18.43	18.86	19.40	19.85	21.09
	6H	16.18	16.54	17.17	17.53	18.79	18.89	19.25	19.88	20.24	21.50
	8H	16.25	16.56	17.25	17.55	18.86	19.06	19.37	20.05	20.36	21.66