

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: P934363

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934363
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-93050-1D-UNV-STD-W-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

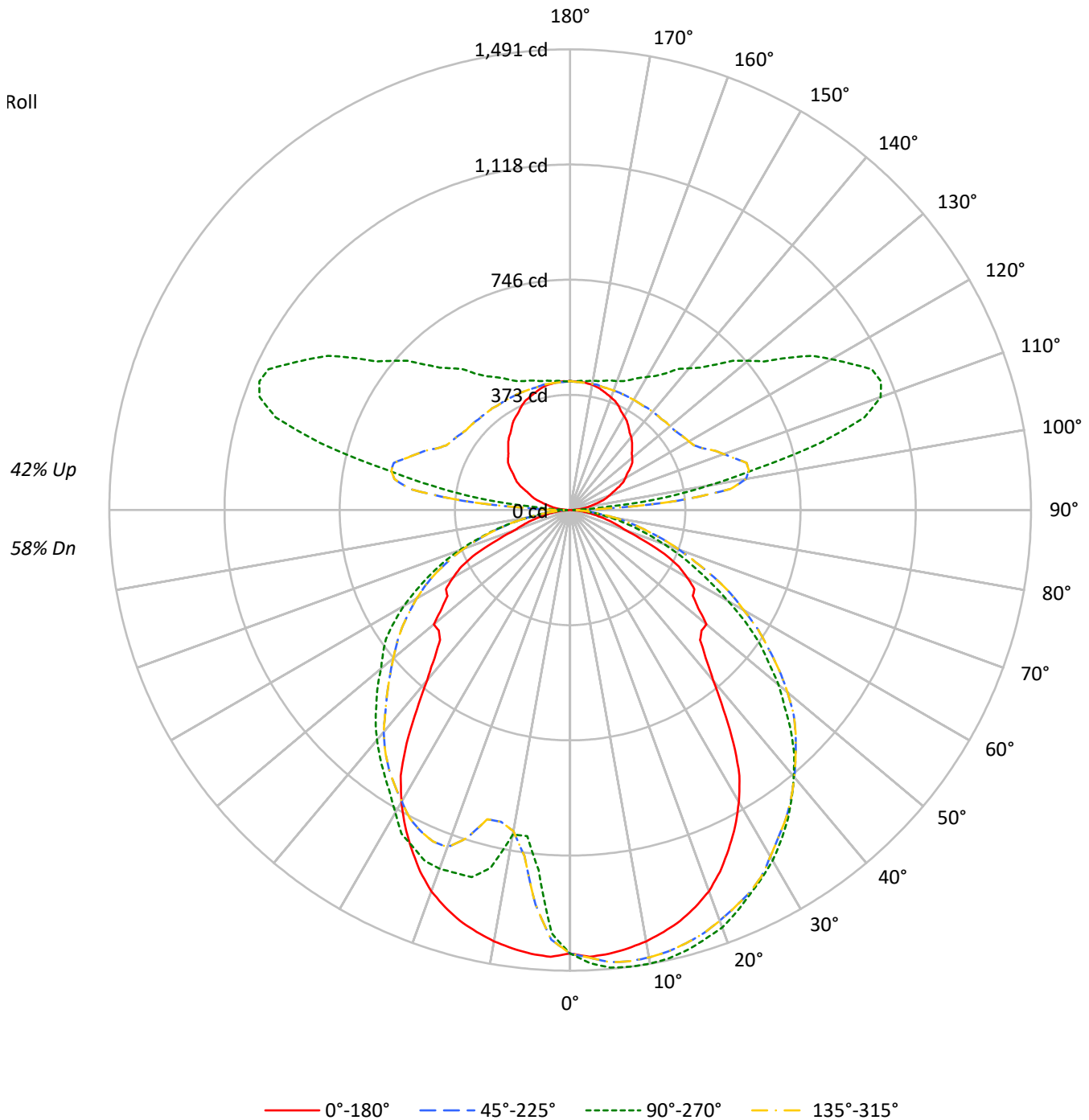
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6425.7 lumens
Efficiency: N/A
Efficacy: 117.7 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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8878	8878	8878	8878
5°	8941	8962	8941	7047
10°	8878	8828	8878	6311
15°	8778	8636	8778	7212
20°	8591	8410	8591	7227
25°	8212	8079	8212	7074
30°	7723	7805	7723	6738
35°	6882	7458	6882	6368
40°	5731	7050	5731	6088
45°	5117	6572	5117	5768
50°	5433	6001	5433	5446
55°	5106	5387	5106	5259
60°	5257	4575	5257	4816
65°	4758	3782	4758	4228
70°	3288	3014	3288	3543
75°	2871	2228	2871	2668
80°	2298	1473	2298	1604
85°	1294	780	1294	664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7848 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	2.0
10°-20°	367.8	5.7
20°-30°	568.6	8.8
30°-40°	678.8	10.6
40°-50°	682.7	10.6
50°-60°	594.1	9.2
60°-70°	421.2	6.6
70°-80°	222.8	3.5
80°-90°	57.1	0.9
90°-100°	203.2	3.2
100°-110°	534.4	8.3
110°-120°	554.1	8.6
120°-130°	444.4	6.9
130°-140°	348.7	5.4
140°-150°	267.7	4.2
150°-160°	192.8	3.0
160°-170°	117.9	1.8
170°-180°	39.8	0.6
0°-30°	1065.9	16.6
0°-40°	1744.7	27.2
0°-60°	3021.5	47.0
0°-90°	3722.6	57.9
90°-120°	1291.7	20.1
90°-150°	2352.5	36.6
90°-180°	2703.0	42.1
0°-180°	6425.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1435	1435	1435	1435	1435	
5°	1442	1487	1442	1169	1442	137
15°	1377	1473	1377	1230	1377	387
25°	1212	1374	1212	1203	1212	557
35°	922	1226	922	1047	922	570
45°	595	1010	595	887	595	476
55°	485	745	485	728	485	445
65°	337	449	337	502	337	322
75°	128	213	128	255	128	134
85°	22	54	22	46	22	29
90°	3	11	3	11	3	3
95°	27	123	27	123	27	30
105°	96	837	96	837	96	102
115°	171	1077	171	1077	171	169
125°	238	858	238	858	238	211
135°	284	666	284	666	284	219
145°	329	540	329	540	329	206
155°	372	465	372	465	372	171
165°	401	433	401	433	401	113
175°	417	420	417	420	417	40
180°	417	417	417	417	417	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1447.4	1447.4	1455.5	1458.2	1458.2	1454.1	1450.1	1454.1	1466.4	1470.4	1469.1
5°	1441.9	1452.8	1467.7	1470.4	1473.1	1471.8	1469.1	1471.8	1485.4	1488.1	1489.4
7.5°	1431.1	1451.4	1470.4	1474.5	1478.6	1474.5	1473.1	1475.9	1489.4	1492.2	1492.2
10°	1417.5	1446.0	1467.7	1470.4	1474.5	1470.4	1470.4	1475.9	1489.4	1492.2	1493.5
12.5°	1398.5	1437.8	1458.2	1460.9	1466.4	1465.0	1463.6	1469.1	1482.7	1485.4	1485.4
15°	1376.7	1422.9	1441.9	1444.6	1454.1	1451.4	1451.4	1456.9	1471.8	1475.9	1474.5
17.5°	1346.9	1403.9	1425.6	1429.7	1436.5	1435.1	1436.5	1441.9	1455.5	1458.2	1459.6
20°	1312.9	1378.1	1403.9	1408.0	1414.8	1414.8	1414.8	1421.6	1435.1	1440.6	1440.6
22.5°	1266.8	1351.0	1378.1	1380.8	1389.0	1389.0	1391.7	1401.2	1413.4	1414.8	1414.8
25°	1212.5	1321.1	1344.2	1352.3	1360.5	1364.5	1368.6	1374.0	1378.1	1376.7	1378.1
27.5°	1155.4	1283.1	1312.9	1318.4	1329.2	1333.3	1338.7	1340.1	1341.4	1345.5	1342.8
30°	1091.6	1230.1	1274.9	1280.4	1298.0	1300.7	1295.3	1298.0	1304.8	1307.5	1310.2
32.5°	1019.7	1151.4	1235.5	1247.8	1264.1	1255.9	1254.6	1258.6	1269.5	1269.5	1272.2
35°	921.9	1090.3	1198.9	1209.7	1222.0	1212.5	1217.9	1219.3	1226.0	1230.1	1228.8
37.5°	814.6	1037.3	1160.9	1169.0	1178.5	1166.3	1174.4	1178.5	1184.0	1181.2	1181.2
40°	719.6	954.5	1116.1	1121.5	1129.6	1120.1	1128.3	1131.0	1133.7	1131.0	1129.6
42.5°	649.0	863.5	1068.5	1075.3	1069.9	1076.7	1079.4	1084.8	1080.8	1075.3	1075.3
45°	594.7	839.1	1016.9	1025.1	1016.9	1027.8	1031.9	1031.9	1019.7	1016.9	1015.6
47.5°	577.0	790.2	965.4	965.4	961.3	974.9	981.6	972.1	959.9	955.9	955.9
50°	575.7	735.9	894.8	889.3	908.3	924.6	917.8	908.3	898.8	883.9	883.9
52.5°	522.7	669.4	803.8	824.1	854.0	863.5	852.7	843.2	826.9	820.1	814.6
55°	484.7	600.1	721.0	761.7	792.9	805.1	784.8	775.3	750.8	746.8	744.0
57.5°	476.6	499.6	644.9	696.5	734.5	733.2	721.0	703.3	682.9	678.9	677.5
60°	437.2	361.2	563.5	624.6	663.9	659.9	649.0	632.7	613.7	611.0	608.3
62.5°	396.5	262.0	471.1	540.4	596.0	594.7	585.2	560.7	547.2	540.4	535.0
65°	336.7	220.0	335.4	449.4	529.5	532.2	511.9	494.2	479.3	471.1	469.8
67.5°	256.6	179.2	226.7	374.7	465.7	463.0	437.2	429.0	410.0	406.0	397.8
70°	190.1	119.5	157.5	304.1	403.2	396.5	376.1	366.6	348.9	339.4	334.0
72.5°	157.5	96.4	115.4	236.2	339.4	331.3	313.6	302.8	287.8	279.7	274.3
75°	127.6	101.8	88.3	175.1	275.6	270.2	253.9	243.0	230.8	220.0	221.3
77.5°	93.7	95.0	70.6	129.0	218.6	210.4	200.9	187.4	181.9	171.1	171.1
80°	70.6	74.7	53.0	88.3	157.5	157.5	149.4	139.8	130.3	124.9	124.9
82.5°	47.5	47.5	39.4	55.7	107.3	103.2	97.8	95.0	89.6	86.9	86.9
85°	21.7	27.2	24.4	33.9	58.4	61.1	61.1	58.4	57.0	54.3	55.7
87.5°	6.8	12.2	14.9	19.0	29.9	31.2	32.6	32.6	32.6	33.9	33.9
90°	2.8	5.1	7.3	7.9	12.3	18.3	21.3	18.9	14.1	10.6	10.6
92.5°	11.2	30.2	49.2	54.0	75.9	105.2	119.8	104.9	75.3	53.1	51.1
95°	26.9	61.6	96.5	105.2	186.8	295.7	350.1	312.5	237.1	180.5	174.1
97.5°	46.4	77.2	107.9	115.6	251.7	433.2	523.9	500.1	452.4	416.6	404.4
100°	61.6	89.4	117.3	124.3	275.3	476.7	577.3	579.0	582.6	585.2	570.7
102.5°	74.4	100.5	126.5	133.0	286.1	490.3	592.4	622.8	683.5	729.0	716.6
105°	96.3	118.3	140.3	145.8	294.1	491.9	590.7	658.8	794.8	896.9	890.2
107.5°	118.7	139.2	159.7	164.8	295.6	470.0	557.1	652.0	841.8	984.2	985.8
110°	133.8	152.2	170.8	175.4	293.4	450.6	529.2	635.2	847.5	1006.6	1013.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	148.6	166.3	183.9	188.4	293.5	433.7	503.7	612.3	829.5	992.3	1003.0
115°	171.0	187.3	203.6	207.6	296.2	414.2	473.2	577.9	787.0	943.9	958.7
117.5°	193.1	207.9	222.7	226.4	301.7	402.1	452.2	546.6	735.4	877.0	893.5
120°	205.9	219.9	233.8	237.3	306.1	397.9	443.8	530.1	702.6	831.9	848.0
122.5°	218.6	232.6	246.7	250.2	312.6	395.7	437.4	515.0	670.5	786.9	802.7
125°	237.9	250.6	263.5	266.7	321.2	394.0	430.4	496.4	628.4	727.3	741.8
127.5°	253.5	266.5	279.4	282.7	329.9	393.0	424.5	481.2	594.4	679.4	691.6
130°	262.0	275.9	289.8	293.3	336.3	393.6	422.3	472.7	573.6	649.3	660.6
132.5°	270.6	284.6	298.5	302.0	341.4	394.0	420.4	465.5	555.8	623.5	633.6
135°	283.5	296.2	308.8	312.0	347.0	393.7	417.0	454.8	530.4	587.1	595.9
137.5°	296.6	309.2	321.7	324.9	355.4	396.0	416.4	448.3	512.2	560.2	567.4
140°	307.6	319.2	330.7	333.6	360.5	396.5	414.5	442.1	497.3	538.7	545.4
142.5°	315.9	326.6	337.3	340.0	364.8	397.9	414.5	438.7	487.2	523.5	529.3
145°	328.8	338.2	347.5	349.8	370.5	397.9	411.7	431.5	471.1	500.9	505.3
147.5°	341.7	350.7	359.9	362.2	378.6	400.6	411.7	427.2	458.5	481.9	485.5
150°	350.1	358.4	366.5	368.6	383.0	402.1	411.7	424.9	451.2	471.0	473.9
152.5°	358.7	365.0	371.2	372.7	385.7	403.0	411.7	422.9	445.4	462.3	464.4
155°	371.7	376.3	380.8	382.0	391.8	405.1	411.7	420.6	438.6	451.9	453.4
157.5°	381.2	385.6	390.1	391.2	398.0	407.1	411.7	418.6	432.6	443.0	444.0
160°	387.6	391.0	394.5	395.4	400.8	408.0	411.7	417.6	429.6	438.6	439.1
162.5°	394.0	396.6	399.3	399.9	403.8	409.0	411.7	416.7	426.8	434.3	434.8
165°	401.0	403.3	405.7	406.3	408.1	410.5	411.7	415.3	422.4	427.9	428.5
167.5°	407.4	408.5	409.7	409.9	411.5	413.5	414.5	416.8	421.5	425.1	425.3
170°	411.7	412.8	413.9	414.2	414.3	414.4	414.5	416.8	421.5	425.1	425.1
172.5°	413.9	414.2	414.4	414.5	414.5	414.5	414.5	416.3	420.0	422.8	422.6
175°	417.0	417.0	417.0	417.0	416.2	415.0	414.5	415.6	418.0	419.7	419.7
177.5°	417.0	417.0	417.0	417.0	416.4	415.5	415.0	415.9	417.8	419.2	418.9
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1471.8	1467.7	1471.8	1469.1	1470.4	1466.4	1454.1	1450.1	1454.1	1458.2	1458.2
5°	1489.4	1486.7	1489.4	1489.4	1488.1	1485.4	1471.8	1469.1	1471.8	1473.1	1470.4
7.5°	1494.9	1490.8	1494.9	1492.2	1492.2	1489.4	1475.9	1473.1	1474.5	1478.6	1474.5
10°	1494.9	1490.8	1494.9	1493.5	1492.2	1489.4	1475.9	1470.4	1470.4	1474.5	1470.4
12.5°	1488.1	1485.4	1488.1	1485.4	1485.4	1482.7	1469.1	1463.6	1465.0	1466.4	1460.9
15°	1477.2	1473.1	1477.2	1474.5	1475.9	1471.8	1456.9	1451.4	1451.4	1454.1	1444.6
17.5°	1460.9	1455.5	1460.9	1459.6	1458.2	1455.5	1441.9	1436.5	1435.1	1436.5	1429.7
20°	1441.9	1437.8	1441.9	1440.6	1440.6	1435.1	1421.6	1414.8	1414.8	1414.8	1408.0
22.5°	1412.1	1408.0	1412.1	1414.8	1414.8	1413.4	1401.2	1391.7	1389.0	1389.0	1380.8
25°	1378.1	1374.0	1378.1	1378.1	1376.7	1378.1	1374.0	1368.6	1364.5	1360.5	1352.3
27.5°	1345.5	1342.8	1345.5	1342.8	1345.5	1341.4	1340.1	1338.7	1333.3	1329.2	1318.4
30°	1312.9	1310.2	1312.9	1310.2	1307.5	1304.8	1298.0	1295.3	1300.7	1298.0	1280.4
32.5°	1272.2	1269.5	1272.2	1272.2	1269.5	1269.5	1258.6	1254.6	1255.9	1264.1	1247.8
35°	1230.1	1226.0	1230.1	1228.8	1230.1	1226.0	1219.3	1217.9	1212.5	1222.0	1209.7
37.5°	1181.2	1177.2	1181.2	1181.2	1181.2	1184.0	1178.5	1174.4	1166.3	1178.5	1169.0
40°	1131.0	1125.6	1131.0	1129.6	1131.0	1133.7	1131.0	1128.3	1120.1	1129.6	1121.5
42.5°	1074.0	1072.6	1074.0	1075.3	1075.3	1080.8	1084.8	1079.4	1076.7	1069.9	1075.3
45°	1012.9	1010.2	1012.9	1015.6	1016.9	1019.7	1031.9	1031.9	1027.8	1016.9	1025.1
47.5°	947.7	940.9	947.7	955.9	955.9	959.9	972.1	981.6	974.9	961.3	965.4
50°	878.5	879.8	878.5	883.9	883.9	898.8	908.3	917.8	924.6	908.3	889.3
52.5°	810.6	809.2	810.6	814.6	820.1	826.9	843.2	852.7	863.5	854.0	824.1
55°	742.7	745.4	742.7	744.0	746.8	750.8	775.3	784.8	805.1	792.9	761.7
57.5°	674.8	670.7	674.8	677.5	678.9	682.9	703.3	721.0	733.2	734.5	696.5
60°	596.0	590.6	596.0	608.3	611.0	613.7	632.7	649.0	659.9	663.9	624.6
62.5°	526.8	517.3	526.8	535.0	540.4	547.2	560.7	585.2	594.7	596.0	540.4
65°	453.5	449.4	453.5	469.8	471.1	479.3	494.2	511.9	532.2	529.5	449.4
67.5°	387.0	387.0	387.0	397.8	406.0	410.0	429.0	437.2	463.0	465.7	374.7
70°	325.9	324.5	325.9	334.0	339.4	348.9	366.6	376.1	396.5	403.2	304.1
72.5°	267.5	266.1	267.5	274.3	279.7	287.8	302.8	313.6	331.3	339.4	236.2
75°	215.9	213.2	215.9	221.3	220.0	230.8	243.0	253.9	270.2	275.6	175.1
77.5°	165.6	165.6	165.6	171.1	171.1	181.9	187.4	200.9	210.4	218.6	129.0
80°	123.6	122.2	123.6	124.9	124.9	130.3	139.8	149.4	157.5	157.5	88.3
82.5°	86.9	84.2	86.9	86.9	86.9	89.6	95.0	97.8	103.2	107.3	55.7
85°	54.3	54.3	54.3	55.7	54.3	57.0	58.4	61.1	61.1	58.4	33.9
87.5°	35.3	33.9	35.3	33.9	33.9	32.6	32.6	32.6	31.2	29.9	19.0
90°	10.6	10.6	10.6	10.6	10.6	14.1	18.9	21.3	18.3	12.3	7.9
92.5°	42.5	34.1	42.5	51.1	53.1	75.3	104.9	119.8	105.2	75.9	54.0
95°	148.4	122.8	148.4	174.1	180.5	237.1	312.5	350.1	295.7	186.8	105.2
97.5°	355.7	307.0	355.7	404.4	416.6	452.4	500.1	523.9	433.2	251.7	115.6
100°	512.6	454.5	512.6	570.7	585.2	582.6	579.0	577.3	476.7	275.3	124.3
102.5°	666.8	617.0	666.8	716.6	729.0	683.5	622.8	592.4	490.3	286.1	133.0
105°	863.5	836.7	863.5	890.2	896.9	794.8	658.8	590.7	491.9	294.1	145.8
107.5°	992.2	998.8	992.2	985.8	984.2	841.8	652.0	557.1	470.0	295.6	164.8
110°	1041.4	1069.3	1041.4	1013.6	1006.6	847.5	635.2	529.2	450.6	293.4	175.4



TEST NUMBER: P934363

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1045.8	1088.5	1045.8	1003.0	992.3	829.5	612.3	503.7	433.7	293.5	188.4
115°	1018.0	1077.4	1018.0	958.7	943.9	787.0	577.9	473.2	414.2	296.2	207.6
117.5°	959.3	1025.1	959.3	893.5	877.0	735.4	546.6	452.2	402.1	301.7	226.4
120°	911.9	975.9	911.9	848.0	831.9	702.6	530.1	443.8	397.9	306.1	237.3
122.5°	865.8	928.8	865.8	802.7	786.9	670.5	515.0	437.4	395.7	312.6	250.2
125°	799.9	858.0	799.9	741.8	727.3	628.4	496.4	430.4	394.0	321.2	266.7
127.5°	740.7	789.8	740.7	691.6	679.4	594.4	481.2	424.5	393.0	329.9	282.7
130°	705.8	751.1	705.8	660.6	649.3	573.6	472.7	422.3	393.6	336.3	293.3
132.5°	674.2	714.7	674.2	633.6	623.5	555.8	465.5	420.4	394.0	341.4	302.0
135°	630.8	665.7	630.8	595.9	587.1	530.4	454.8	417.0	393.7	347.0	312.0
137.5°	596.0	624.7	596.0	567.4	560.2	512.2	448.3	416.4	396.0	355.4	324.9
140°	572.1	598.9	572.1	545.4	538.7	497.3	442.1	414.5	396.5	360.5	333.6
142.5°	552.3	575.3	552.3	529.3	523.5	487.2	438.7	414.5	397.9	364.8	340.0
145°	522.7	540.1	522.7	505.3	500.9	471.1	431.5	411.7	397.9	370.5	349.8
147.5°	499.9	514.3	499.9	485.5	481.9	458.5	427.2	411.7	400.6	378.6	362.2
150°	485.6	497.3	485.6	473.9	471.0	451.2	424.9	411.7	402.1	383.0	368.6
152.5°	473.3	482.2	473.3	464.4	462.3	445.4	422.9	411.7	403.0	385.7	372.7
155°	459.3	465.1	459.3	453.4	451.9	438.6	420.6	411.7	405.1	391.8	382.0
157.5°	448.1	452.2	448.1	444.0	443.0	432.6	418.6	411.7	407.1	398.0	391.2
160°	441.4	443.8	441.4	439.1	438.6	429.6	417.6	411.7	408.0	400.8	395.4
162.5°	437.1	439.4	437.1	434.8	434.3	426.8	416.7	411.7	409.0	403.8	399.9
165°	430.9	433.2	430.9	428.5	427.9	422.4	415.3	411.7	410.5	408.1	406.3
167.5°	426.3	427.3	426.3	425.3	425.1	421.5	416.8	414.5	413.5	411.5	409.9
170°	425.1	425.1	425.1	425.1	425.1	421.5	416.8	414.5	414.4	414.3	414.2
172.5°	421.7	420.9	421.7	422.6	422.8	420.0	416.3	414.5	414.5	414.5	414.5
175°	419.7	419.7	419.7	419.7	419.7	418.0	415.6	414.5	415.0	416.2	417.0
177.5°	418.0	417.0	418.0	418.9	419.2	417.8	415.9	415.0	415.5	416.4	417.0
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



TEST NUMBER: P934363

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1455.5	1447.4	1447.4	1433.8	1428.3	1424.3	1417.5	1397.1	1391.7	1386.3	1394.4
5°	1467.7	1452.8	1441.9	1417.5	1397.1	1389.0	1363.2	1314.3	1281.7	1257.3	1243.7
7.5°	1470.4	1451.4	1431.1	1393.0	1344.2	1322.4	1243.7	1154.1	1129.6	1107.9	1094.3
10°	1467.7	1446.0	1417.5	1360.5	1245.0	1207.0	1128.3	1069.9	1055.0	1050.9	1055.0
12.5°	1458.2	1437.8	1398.5	1303.4	1141.9	1116.1	1069.9	1036.0	1033.2	1040.0	1076.7
15°	1441.9	1422.9	1376.7	1227.4	1084.8	1065.8	1033.2	1021.0	1036.0	1083.5	1193.5
17.5°	1425.6	1403.9	1346.9	1152.7	1041.4	1027.8	1004.7	1029.2	1113.3	1177.2	1213.8
20°	1403.9	1378.1	1312.9	1098.4	1010.2	997.9	987.1	1097.1	1160.9	1184.0	1204.3
22.5°	1378.1	1351.0	1266.8	1060.4	977.6	968.1	974.9	1135.1	1160.9	1177.2	1194.8
25°	1344.2	1321.1	1212.5	1030.5	951.8	940.9	966.7	1131.0	1145.9	1150.0	1185.3
27.5°	1312.9	1283.1	1155.4	1003.4	920.5	916.5	973.5	1113.3	1124.2	1128.3	1166.3
30°	1274.9	1230.1	1091.6	974.9	888.0	886.6	974.9	1091.6	1088.9	1099.8	1137.8
32.5°	1235.5	1151.4	1019.7	939.6	856.7	855.4	965.4	1059.0	1056.3	1071.3	1099.8
35°	1198.9	1090.3	921.9	898.8	817.4	818.7	942.3	1021.0	1022.4	1036.0	1053.6
37.5°	1160.9	1037.3	814.6	854.0	779.3	779.3	911.0	985.7	983.0	987.1	1011.5
40°	1116.1	954.5	719.6	795.6	744.0	740.0	873.0	947.7	938.2	936.8	970.8
42.5°	1068.5	863.5	649.0	718.2	703.3	697.9	826.9	901.5	883.9	888.0	931.4
45°	1016.9	839.1	594.7	606.9	661.2	657.1	776.6	848.6	836.4	847.2	892.0
47.5°	965.4	790.2	577.0	503.7	616.4	615.1	721.0	797.0	790.2	801.1	848.6
50°	894.8	735.9	575.7	431.8	566.2	571.6	654.4	746.8	746.8	756.3	806.5
52.5°	803.8	669.4	522.7	391.0	507.8	524.1	596.0	703.3	706.0	715.5	760.3
55°	721.0	600.1	484.7	359.8	438.6	473.9	539.0	658.5	663.9	673.4	714.2
57.5°	644.9	499.6	476.6	323.1	374.7	408.7	488.8	615.1	617.8	625.9	665.3
60°	563.5	361.2	437.2	283.8	319.1	344.9	442.6	563.5	573.0	578.4	612.3
62.5°	471.1	262.0	396.5	256.6	291.9	297.3	404.6	514.6	526.8	530.9	551.2
65°	335.4	220.0	336.7	233.5	263.4	264.8	363.9	464.3	475.2	482.0	496.9
67.5°	226.7	179.2	256.6	211.8	241.7	243.0	324.5	406.0	420.9	426.3	435.8
70°	157.5	119.5	190.1	188.7	217.2	220.0	282.4	353.0	366.6	370.7	376.1
72.5°	115.4	96.4	157.5	169.7	191.4	194.2	239.0	293.3	306.8	310.9	313.6
75°	88.3	101.8	127.6	148.0	162.9	164.3	195.5	239.0	248.5	251.2	252.5
77.5°	70.6	95.0	93.7	119.5	133.1	130.3	153.4	184.7	192.8	192.8	192.8
80°	53.0	74.7	70.6	85.5	97.8	95.0	110.0	131.7	134.4	137.1	135.8
82.5°	39.4	47.5	47.5	54.3	65.2	62.5	73.3	85.5	85.5	85.5	88.3
85°	24.4	27.2	21.7	28.5	36.7	35.3	40.7	46.2	47.5	47.5	44.8
87.5°	14.9	12.2	6.8	10.9	16.3	16.3	19.0	20.4	19.0	19.0	19.0
90°	7.3	5.1	2.8	5.1	7.3	7.9	12.3	18.3	21.3	18.9	14.1
92.5°	49.2	30.2	11.2	30.2	49.2	54.0	75.9	105.2	119.8	104.9	75.3
95°	96.5	61.6	26.9	61.6	96.5	105.2	186.8	295.7	350.1	312.5	237.1
97.5°	107.9	77.2	46.4	77.2	107.9	115.6	251.7	433.2	523.9	500.1	452.4
100°	117.3	89.4	61.6	89.4	117.3	124.3	275.3	476.7	577.3	579.0	582.6
102.5°	126.5	100.5	74.4	100.5	126.5	133.0	286.1	490.3	592.4	622.8	683.5
105°	140.3	118.3	96.3	118.3	140.3	145.8	294.1	491.9	590.7	658.8	794.8
107.5°	159.7	139.2	118.7	139.2	159.7	164.8	295.6	470.0	557.1	652.0	841.8
110°	170.8	152.2	133.8	152.2	170.8	175.4	293.4	450.6	529.2	635.2	847.5



TEST NUMBER: P934363

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	183.9	166.3	148.6	166.3	183.9	188.4	293.5	433.7	503.7	612.3	829.5
115°	203.6	187.3	171.0	187.3	203.6	207.6	296.2	414.2	473.2	577.9	787.0
117.5°	222.7	207.9	193.1	207.9	222.7	226.4	301.7	402.1	452.2	546.6	735.4
120°	233.8	219.9	205.9	219.9	233.8	237.3	306.1	397.9	443.8	530.1	702.6
122.5°	246.7	232.6	218.6	232.6	246.7	250.2	312.6	395.7	437.4	515.0	670.5
125°	263.5	250.6	237.9	250.6	263.5	266.7	321.2	394.0	430.4	496.4	628.4
127.5°	279.4	266.5	253.5	266.5	279.4	282.7	329.9	393.0	424.5	481.2	594.4
130°	289.8	275.9	262.0	275.9	289.8	293.3	336.3	393.6	422.3	472.7	573.6
132.5°	298.5	284.6	270.6	284.6	298.5	302.0	341.4	394.0	420.4	465.5	555.8
135°	308.8	296.2	283.5	296.2	308.8	312.0	347.0	393.7	417.0	454.8	530.4
137.5°	321.7	309.2	296.6	309.2	321.7	324.9	355.4	396.0	416.4	448.3	512.2
140°	330.7	319.2	307.6	319.2	330.7	333.6	360.5	396.5	414.5	442.1	497.3
142.5°	337.3	326.6	315.9	326.6	337.3	340.0	364.8	397.9	414.5	438.7	487.2
145°	347.5	338.2	328.8	338.2	347.5	349.8	370.5	397.9	411.7	431.5	471.1
147.5°	359.9	350.7	341.7	350.7	359.9	362.2	378.6	400.6	411.7	427.2	458.5
150°	366.5	358.4	350.1	358.4	366.5	368.6	383.0	402.1	411.7	424.9	451.2
152.5°	371.2	365.0	358.7	365.0	371.2	372.7	385.7	403.0	411.7	422.9	445.4
155°	380.8	376.3	371.7	376.3	380.8	382.0	391.8	405.1	411.7	420.6	438.6
157.5°	390.1	385.6	381.2	385.6	390.1	391.2	398.0	407.1	411.7	418.6	432.6
160°	394.5	391.0	387.6	391.0	394.5	395.4	400.8	408.0	411.7	417.6	429.6
162.5°	399.3	396.6	394.0	396.6	399.3	399.9	403.8	409.0	411.7	416.7	426.8
165°	405.7	403.3	401.0	403.3	405.7	406.3	408.1	410.5	411.7	415.3	422.4
167.5°	409.7	408.5	407.4	408.5	409.7	409.9	411.5	413.5	414.5	416.8	421.5
170°	413.9	412.8	411.7	412.8	413.9	414.2	414.3	414.4	414.5	416.8	421.5
172.5°	414.4	414.2	413.9	414.2	414.4	414.5	414.5	414.5	414.5	416.3	420.0
175°	417.0	417.0	417.0	417.0	417.0	417.0	416.2	415.0	414.5	415.6	418.0
177.5°	417.0	417.0	417.0	417.0	417.0	417.0	416.4	415.5	415.0	415.9	417.8
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



TEST NUMBER: P934363

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1384.9	1380.8	1386.3	1371.3	1386.3	1380.8	1384.9	1394.4	1386.3	1391.7	1397.1
5°	1215.2	1208.4	1186.7	1169.0	1186.7	1208.4	1215.2	1243.7	1257.3	1281.7	1314.3
7.5°	1086.2	1080.8	1075.3	1064.5	1075.3	1080.8	1086.2	1094.3	1107.9	1129.6	1154.1
10°	1057.7	1059.0	1067.2	1065.8	1067.2	1059.0	1057.7	1055.0	1050.9	1055.0	1069.9
12.5°	1131.0	1143.2	1188.0	1185.3	1188.0	1143.2	1131.0	1076.7	1040.0	1033.2	1036.0
15°	1215.2	1219.3	1228.8	1230.1	1228.8	1219.3	1215.2	1193.5	1083.5	1036.0	1021.0
17.5°	1223.3	1224.7	1231.5	1231.5	1231.5	1224.7	1223.3	1213.8	1177.2	1113.3	1029.2
20°	1216.5	1219.3	1232.8	1235.5	1232.8	1219.3	1216.5	1204.3	1184.0	1160.9	1097.1
22.5°	1213.8	1219.3	1230.1	1228.8	1230.1	1219.3	1213.8	1194.8	1177.2	1160.9	1135.1
25°	1200.2	1200.2	1201.6	1203.0	1201.6	1200.2	1200.2	1185.3	1150.0	1145.9	1131.0
27.5°	1171.7	1174.4	1182.6	1181.2	1182.6	1174.4	1171.7	1166.3	1128.3	1124.2	1113.3
30°	1145.9	1143.2	1136.4	1131.0	1136.4	1143.2	1145.9	1137.8	1099.8	1088.9	1091.6
32.5°	1102.5	1095.7	1088.9	1084.8	1088.9	1095.7	1102.5	1099.8	1071.3	1056.3	1059.0
35°	1050.9	1052.2	1050.9	1046.8	1050.9	1052.2	1050.9	1053.6	1036.0	1022.4	1021.0
37.5°	1014.2	1016.9	1015.6	1010.2	1015.6	1016.9	1014.2	1011.5	987.1	983.0	985.7
40°	976.2	977.6	976.2	972.1	976.2	977.6	976.2	970.8	936.8	938.2	947.7
42.5°	939.6	938.2	934.1	931.4	934.1	938.2	939.6	931.4	888.0	883.9	901.5
45°	897.5	898.8	890.7	886.6	890.7	898.8	897.5	892.0	847.2	836.4	848.6
47.5°	855.4	855.4	848.6	844.5	848.6	855.4	855.4	848.6	801.1	790.2	797.0
50°	810.6	809.2	799.7	798.4	799.7	809.2	810.6	806.5	756.3	746.8	746.8
52.5°	759.0	759.0	760.3	763.1	760.3	759.0	759.0	760.3	715.5	706.0	703.3
55°	714.2	715.5	725.0	727.7	725.0	715.5	714.2	714.2	673.4	663.9	658.5
57.5°	668.0	668.0	674.8	674.8	674.8	668.0	668.0	665.3	625.9	617.8	615.1
60°	615.1	617.8	623.2	621.8	623.2	617.8	615.1	612.3	578.4	573.0	563.5
62.5°	559.4	562.1	563.5	560.7	563.5	562.1	559.4	551.2	530.9	526.8	514.6
65°	501.0	503.7	505.1	502.4	505.1	503.7	501.0	496.9	482.0	475.2	464.3
67.5°	441.3	439.9	438.6	444.0	438.6	439.9	441.3	435.8	426.3	420.9	406.0
70°	380.2	380.2	378.8	381.5	378.8	380.2	380.2	376.1	370.7	366.6	353.0
72.5°	315.0	313.6	319.1	315.0	319.1	313.6	315.0	313.6	310.9	306.8	293.3
75°	251.2	253.9	251.2	255.3	251.2	253.9	251.2	252.5	251.2	248.5	239.0
77.5°	191.4	194.2	191.4	191.4	191.4	194.2	191.4	192.8	192.8	192.8	184.7
80°	135.8	134.4	134.4	133.1	134.4	134.4	135.8	135.8	137.1	134.4	131.7
82.5°	86.9	85.5	85.5	88.3	85.5	85.5	86.9	88.3	85.5	85.5	85.5
85°	47.5	48.9	46.2	46.2	46.2	48.9	47.5	44.8	47.5	47.5	46.2
87.5°	17.7	16.3	16.3	16.3	16.3	16.3	17.7	19.0	19.0	19.0	20.4
90°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	14.1	18.9	21.3	18.3
92.5°	53.1	51.1	42.5	34.1	42.5	51.1	53.1	75.3	104.9	119.8	105.2
95°	180.5	174.1	148.4	122.8	148.4	174.1	180.5	237.1	312.5	350.1	295.7
97.5°	416.6	404.4	355.7	307.0	355.7	404.4	416.6	452.4	500.1	523.9	433.2
100°	585.2	570.7	512.6	454.5	512.6	570.7	585.2	582.6	579.0	577.3	476.7
102.5°	729.0	716.6	666.8	617.0	666.8	716.6	729.0	683.5	622.8	592.4	490.3
105°	896.9	890.2	863.5	836.7	863.5	890.2	896.9	794.8	658.8	590.7	491.9
107.5°	984.2	985.8	992.2	998.8	992.2	985.8	984.2	841.8	652.0	557.1	470.0
110°	1006.6	1013.6	1041.4	1069.3	1041.4	1013.6	1006.6	847.5	635.2	529.2	450.6



TEST NUMBER: P934363

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	992.3	1003.0	1045.8	1088.5	1045.8	1003.0	992.3	829.5	612.3	503.7	433.7
115°	943.9	958.7	1018.0	1077.4	1018.0	958.7	943.9	787.0	577.9	473.2	414.2
117.5°	877.0	893.5	959.3	1025.1	959.3	893.5	877.0	735.4	546.6	452.2	402.1
120°	831.9	848.0	911.9	975.9	911.9	848.0	831.9	702.6	530.1	443.8	397.9
122.5°	786.9	802.7	865.8	928.8	865.8	802.7	786.9	670.5	515.0	437.4	395.7
125°	727.3	741.8	799.9	858.0	799.9	741.8	727.3	628.4	496.4	430.4	394.0
127.5°	679.4	691.6	740.7	789.8	740.7	691.6	679.4	594.4	481.2	424.5	393.0
130°	649.3	660.6	705.8	751.1	705.8	660.6	649.3	573.6	472.7	422.3	393.6
132.5°	623.5	633.6	674.2	714.7	674.2	633.6	623.5	555.8	465.5	420.4	394.0
135°	587.1	595.9	630.8	665.7	630.8	595.9	587.1	530.4	454.8	417.0	393.7
137.5°	560.2	567.4	596.0	624.7	596.0	567.4	560.2	512.2	448.3	416.4	396.0
140°	538.7	545.4	572.1	598.9	572.1	545.4	538.7	497.3	442.1	414.5	396.5
142.5°	523.5	529.3	552.3	575.3	552.3	529.3	523.5	487.2	438.7	414.5	397.9
145°	500.9	505.3	522.7	540.1	522.7	505.3	500.9	471.1	431.5	411.7	397.9
147.5°	481.9	485.5	499.9	514.3	499.9	485.5	481.9	458.5	427.2	411.7	400.6
150°	471.0	473.9	485.6	497.3	485.6	473.9	471.0	451.2	424.9	411.7	402.1
152.5°	462.3	464.4	473.3	482.2	473.3	464.4	462.3	445.4	422.9	411.7	403.0
155°	451.9	453.4	459.3	465.1	459.3	453.4	451.9	438.6	420.6	411.7	405.1
157.5°	443.0	444.0	448.1	452.2	448.1	444.0	443.0	432.6	418.6	411.7	407.1
160°	438.6	439.1	441.4	443.8	441.4	439.1	438.6	429.6	417.6	411.7	408.0
162.5°	434.3	434.8	437.1	439.4	437.1	434.8	434.3	426.8	416.7	411.7	409.0
165°	427.9	428.5	430.9	433.2	430.9	428.5	427.9	422.4	415.3	411.7	410.5
167.5°	425.1	425.3	426.3	427.3	426.3	425.3	425.1	421.5	416.8	414.5	413.5
170°	425.1	425.1	425.1	425.1	425.1	425.1	425.1	421.5	416.8	414.5	414.4
172.5°	422.8	422.6	421.7	420.9	421.7	422.6	422.8	420.0	416.3	414.5	414.5
175°	419.7	419.7	419.7	419.7	419.7	419.7	419.7	418.0	415.6	414.5	415.0
177.5°	419.2	418.9	418.0	417.0	418.0	418.9	419.2	417.8	415.9	415.0	415.5
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1417.5	1424.3	1428.3	1433.8	1447.4
5°	1363.2	1389.0	1397.1	1417.5	1441.9
7.5°	1243.7	1322.4	1344.2	1393.0	1431.1
10°	1128.3	1207.0	1245.0	1360.5	1417.5
12.5°	1069.9	1116.1	1141.9	1303.4	1398.5
15°	1033.2	1065.8	1084.8	1227.4	1376.7
17.5°	1004.7	1027.8	1041.4	1152.7	1346.9
20°	987.1	997.9	1010.2	1098.4	1312.9
22.5°	974.9	968.1	977.6	1060.4	1266.8
25°	966.7	940.9	951.8	1030.5	1212.5
27.5°	973.5	916.5	920.5	1003.4	1155.4
30°	974.9	886.6	888.0	974.9	1091.6
32.5°	965.4	855.4	856.7	939.6	1019.7
35°	942.3	818.7	817.4	898.8	921.9
37.5°	911.0	779.3	779.3	854.0	814.6
40°	873.0	740.0	744.0	795.6	719.6
42.5°	826.9	697.9	703.3	718.2	649.0
45°	776.6	657.1	661.2	606.9	594.7
47.5°	721.0	615.1	616.4	503.7	577.0
50°	654.4	571.6	566.2	431.8	575.7
52.5°	596.0	524.1	507.8	391.0	522.7
55°	539.0	473.9	438.6	359.8	484.7
57.5°	488.8	408.7	374.7	323.1	476.6
60°	442.6	344.9	319.1	283.8	437.2
62.5°	404.6	297.3	291.9	256.6	396.5
65°	363.9	264.8	263.4	233.5	336.7
67.5°	324.5	243.0	241.7	211.8	256.6
70°	282.4	220.0	217.2	188.7	190.1
72.5°	239.0	194.2	191.4	169.7	157.5
75°	195.5	164.3	162.9	148.0	127.6
77.5°	153.4	130.3	133.1	119.5	93.7
80°	110.0	95.0	97.8	85.5	70.6
82.5°	73.3	62.5	65.2	54.3	47.5
85°	40.7	35.3	36.7	28.5	21.7
87.5°	19.0	16.3	16.3	10.9	6.8
90°	12.3	7.9	7.3	5.1	2.8
92.5°	75.9	54.0	49.2	30.2	11.2
95°	186.8	105.2	96.5	61.6	26.9
97.5°	251.7	115.6	107.9	77.2	46.4
100°	275.3	124.3	117.3	89.4	61.6
102.5°	286.1	133.0	126.5	100.5	74.4
105°	294.1	145.8	140.3	118.3	96.3
107.5°	295.6	164.8	159.7	139.2	118.7
110°	293.4	175.4	170.8	152.2	133.8



TEST NUMBER: P934363

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	293.5	188.4	183.9	166.3	148.6
115°	296.2	207.6	203.6	187.3	171.0
117.5°	301.7	226.4	222.7	207.9	193.1
120°	306.1	237.3	233.8	219.9	205.9
122.5°	312.6	250.2	246.7	232.6	218.6
125°	321.2	266.7	263.5	250.6	237.9
127.5°	329.9	282.7	279.4	266.5	253.5
130°	336.3	293.3	289.8	275.9	262.0
132.5°	341.4	302.0	298.5	284.6	270.6
135°	347.0	312.0	308.8	296.2	283.5
137.5°	355.4	324.9	321.7	309.2	296.6
140°	360.5	333.6	330.7	319.2	307.6
142.5°	364.8	340.0	337.3	326.6	315.9
145°	370.5	349.8	347.5	338.2	328.8
147.5°	378.6	362.2	359.9	350.7	341.7
150°	383.0	368.6	366.5	358.4	350.1
152.5°	385.7	372.7	371.2	365.0	358.7
155°	391.8	382.0	380.8	376.3	371.7
157.5°	398.0	391.2	390.1	385.6	381.2
160°	400.8	395.4	394.5	391.0	387.6
162.5°	403.8	399.9	399.3	396.6	394.0
165°	408.1	406.3	405.7	403.3	401.0
167.5°	411.5	409.9	409.7	408.5	407.4
170°	414.3	414.2	413.9	412.8	411.7
172.5°	414.5	414.5	414.4	414.2	413.9
175°	416.2	417.0	417.0	417.0	417.0
177.5°	416.4	417.0	417.0	417.0	417.0
180°	417.0	417.0	417.0	417.0	417.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.09	14.03	13.98	14.93	16.09	15.91	16.85	16.80	17.76	18.91
	3H	13.57	14.41	14.47	15.33	16.51	17.27	18.11	18.16	19.02	20.20
	4H	13.77	14.56	14.68	15.48	16.67	17.71	18.51	18.63	19.43	20.62
	6H	13.89	14.62	14.82	15.55	16.75	18.00	18.73	18.92	19.66	20.86
	8H	13.89	14.59	14.83	15.54	16.74	18.08	18.77	19.01	19.72	20.92
	12H	13.87	14.53	14.81	15.47	16.70	18.12	18.78	19.05	19.72	20.94
4H	2H	14.13	14.93	15.05	15.85	17.04	16.33	17.13	17.25	18.05	19.24
	3H	15.17	15.83	16.10	16.78	17.98	17.85	18.51	18.78	19.46	20.66
	4H	15.44	16.05	16.39	17.00	18.22	18.38	18.98	19.32	19.93	21.15
	6H	15.57	16.10	16.53	17.07	18.29	18.74	19.26	19.70	20.24	21.46
	8H	15.58	16.07	16.54	17.03	18.28	18.85	19.34	19.81	20.30	21.54
	12H	15.55	15.99	16.53	16.97	18.22	18.91	19.35	19.89	20.33	21.58
8H	4H	15.90	16.39	16.86	17.35	18.60	18.51	18.99	19.46	19.96	21.20
	6H	16.17	16.57	17.15	17.58	18.82	18.94	19.35	19.93	20.35	21.59
	8H	16.21	16.57	17.20	17.56	18.82	19.10	19.45	20.09	20.45	21.71
	12H	16.20	16.51	17.19	17.50	18.81	19.20	19.51	20.19	20.50	21.80
12H	4H	15.91	16.35	16.89	17.33	18.58	18.47	18.91	19.45	19.90	21.14
	6H	16.23	16.59	17.22	17.58	18.84	18.94	19.30	19.93	20.29	21.55
	8H	16.30	16.61	17.29	17.60	18.91	19.11	19.42	20.10	20.41	21.71