

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: P934338

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934338
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-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

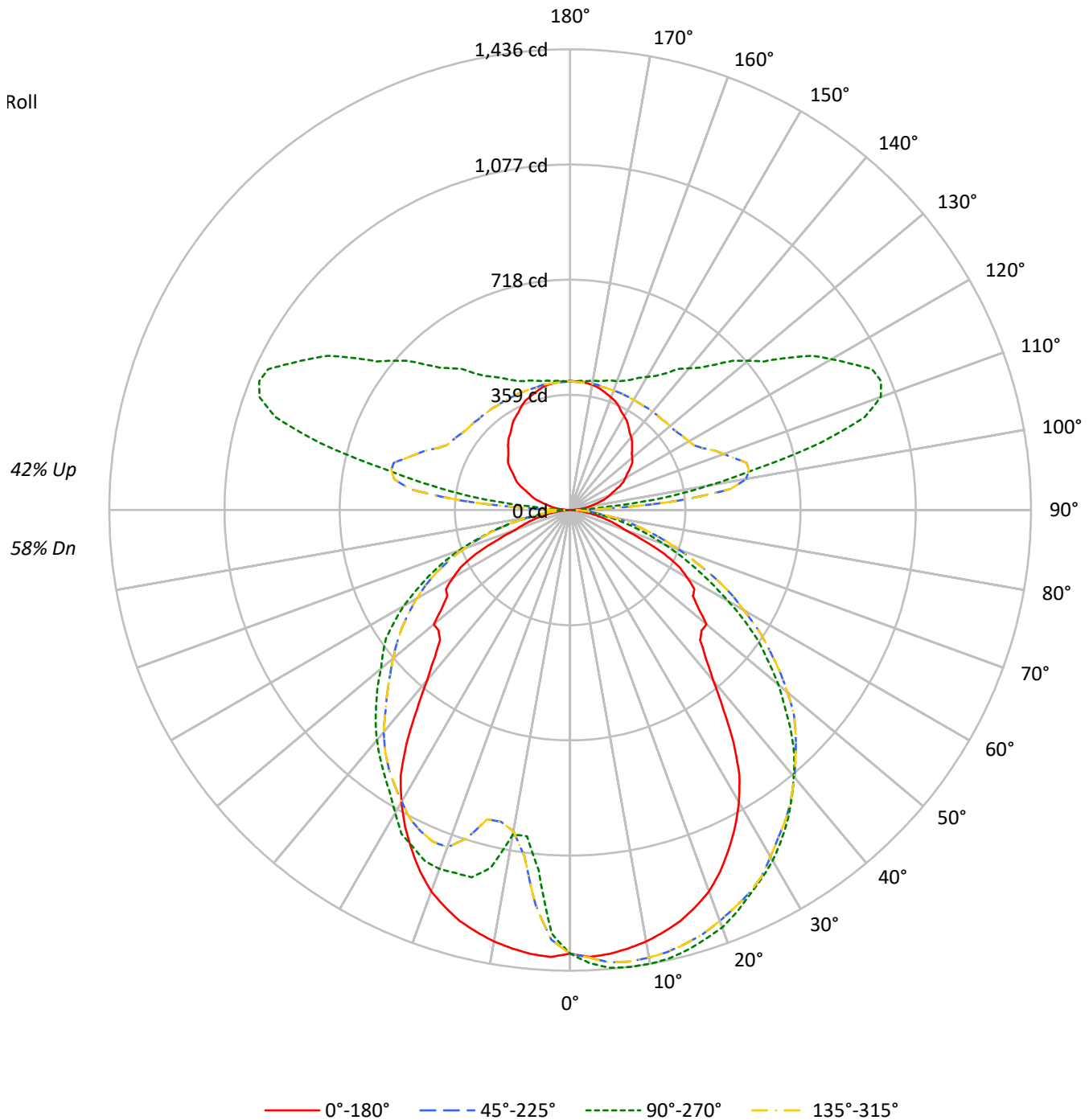
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6190.5 lumens
Efficiency: N/A
Efficacy: 113.4 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 (A_{in}): 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°	8553	8553	8553	8553
5°	8614	8634	8614	6789
10°	8553	8505	8553	6080
15°	8457	8320	8457	6948
20°	8277	8102	8277	6962
25°	7912	7784	7912	6815
30°	7441	7520	7441	6491
35°	6630	7185	6630	6135
40°	5521	6792	5521	5866
45°	4930	6331	4930	5557
50°	5233	5781	5233	5246
55°	4920	5189	4920	5066
60°	5065	4407	5065	4641
65°	4585	3644	4585	4073
70°	3167	2903	3167	3414
75°	2768	2147	2768	2570
80°	2213	1419	2213	1545
85°	1246	751	1246	639

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7561 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	2.0
10°-20°	354.4	5.7
20°-30°	547.8	8.8
30°-40°	653.9	10.6
40°-50°	657.8	10.6
50°-60°	572.3	9.2
60°-70°	405.8	6.6
70°-80°	214.7	3.5
80°-90°	55.0	0.9
90°-100°	195.8	3.2
100°-110°	514.8	8.3
110°-120°	533.8	8.6
120°-130°	428.2	6.9
130°-140°	336.0	5.4
140°-150°	257.9	4.2
150°-160°	185.7	3.0
160°-170°	113.6	1.8
170°-180°	38.4	0.6
0°-30°	1026.9	16.6
0°-40°	1680.8	27.2
0°-60°	2910.9	47.0
0°-90°	3586.4	57.9
90°-120°	1244.4	20.1
90°-150°	2266.4	36.6
90°-180°	2604.0	42.1
0°-180°	6190.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1383	1383	1383	1383	1383	
5°	1389	1432	1389	1126	1389	132
15°	1326	1419	1326	1185	1326	373
25°	1168	1324	1168	1159	1168	536
35°	888	1181	888	1008	888	549
45°	573	973	573	854	573	459
55°	467	718	467	701	467	429
65°	324	433	324	484	324	310
75°	123	205	123	246	123	129
85°	21	52	21	44	21	28
90°	3	10	3	10	3	3
95°	26	118	26	118	26	29
105°	93	806	93	806	93	98
115°	165	1038	165	1038	165	163
125°	229	827	229	827	229	203
135°	273	641	273	641	273	211
145°	317	520	317	520	317	198
155°	358	448	358	448	358	165
165°	386	417	386	417	386	109
175°	402	404	402	404	402	38
180°	402	402	402	402	402	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1394.4	1394.4	1402.2	1404.8	1404.8	1400.9	1397.0	1400.9	1412.7	1416.6	1415.3
5°	1389.2	1399.6	1414.0	1416.6	1419.2	1417.9	1415.3	1417.9	1431.0	1433.6	1434.9
7.5°	1378.7	1398.3	1416.6	1420.5	1424.5	1420.5	1419.2	1421.9	1434.9	1437.5	1437.5
10°	1365.6	1393.1	1414.0	1416.6	1420.5	1416.6	1416.6	1421.9	1434.9	1437.5	1438.9
12.5°	1347.3	1385.2	1404.8	1407.5	1412.7	1411.4	1410.1	1415.3	1428.4	1431.0	1431.0
15°	1326.4	1370.8	1389.2	1391.8	1400.9	1398.3	1398.3	1403.5	1417.9	1421.9	1420.5
17.5°	1297.6	1352.5	1373.5	1377.4	1383.9	1382.6	1383.9	1389.2	1402.2	1404.8	1406.2
20°	1264.9	1327.7	1352.5	1356.4	1363.0	1363.0	1363.0	1369.5	1382.6	1387.8	1387.8
22.5°	1220.4	1301.5	1327.7	1330.3	1338.1	1338.1	1340.8	1349.9	1361.7	1363.0	1363.0
25°	1168.1	1272.7	1295.0	1302.8	1310.7	1314.6	1318.5	1323.7	1327.7	1326.4	1327.7
27.5°	1113.2	1236.1	1264.9	1270.1	1280.6	1284.5	1289.7	1291.0	1292.4	1296.3	1293.7
30°	1051.7	1185.1	1228.3	1233.5	1250.5	1253.1	1247.9	1250.5	1257.0	1259.7	1262.3
32.5°	982.3	1109.2	1190.3	1202.1	1217.8	1209.9	1208.6	1212.6	1223.0	1223.0	1225.6
35°	888.2	1050.4	1155.0	1165.5	1177.2	1168.1	1173.3	1174.6	1181.2	1185.1	1183.8
37.5°	784.8	999.4	1118.4	1126.2	1135.4	1123.6	1131.5	1135.4	1140.6	1138.0	1138.0
40°	693.3	919.6	1075.2	1080.5	1088.3	1079.1	1087.0	1089.6	1092.2	1089.6	1088.3
42.5°	625.2	831.9	1029.4	1036.0	1030.7	1037.3	1039.9	1045.1	1041.2	1036.0	1036.0
45°	572.9	808.4	979.7	987.6	979.7	990.2	994.1	994.1	982.3	979.7	978.4
47.5°	555.9	761.3	930.0	930.0	926.1	939.2	945.7	936.6	924.8	920.9	920.9
50°	554.6	709.0	862.0	856.8	875.1	890.8	884.2	875.1	865.9	851.5	851.5
52.5°	503.6	644.9	774.4	794.0	822.8	831.9	821.5	812.3	796.6	790.1	784.8
55°	467.0	578.2	694.6	733.8	763.9	775.7	756.1	746.9	723.4	719.4	716.8
57.5°	459.1	481.4	621.3	671.0	707.7	706.3	694.6	677.6	657.9	654.0	652.7
60°	421.2	347.9	542.8	601.7	639.6	635.7	625.2	609.6	591.2	588.6	586.0
62.5°	382.0	252.5	453.9	520.6	574.2	572.9	563.8	540.2	527.1	520.6	515.4
65°	324.4	211.9	323.1	433.0	510.1	512.8	493.1	476.1	461.7	453.9	452.6
67.5°	247.2	172.7	218.4	361.0	448.7	446.0	421.2	413.3	395.0	391.1	383.3
70°	183.1	115.1	151.7	293.0	388.5	382.0	362.3	353.2	336.2	327.0	321.8
72.5°	151.7	92.9	111.2	227.6	327.0	319.2	302.2	291.7	277.3	269.5	264.2
75°	123.0	98.1	85.0	168.7	265.5	260.3	244.6	234.1	222.4	211.9	213.2
77.5°	90.3	91.6	68.0	124.3	210.6	202.7	193.6	180.5	175.3	164.8	164.8
80°	68.0	71.9	51.0	85.0	151.7	151.7	143.9	134.7	125.6	120.3	120.3
82.5°	45.8	45.8	37.9	53.6	103.3	99.4	94.2	91.6	86.3	83.7	83.7
85°	20.9	26.2	23.5	32.7	56.2	58.9	58.9	56.2	54.9	52.3	53.6
87.5°	6.5	11.8	14.4	18.3	28.8	30.1	31.4	31.4	31.4	32.7	32.7
90°	2.7	4.9	7.1	7.6	11.9	17.6	20.5	18.2	13.6	10.2	10.2
92.5°	10.8	29.1	47.4	52.1	73.2	101.3	115.4	101.1	72.6	51.2	49.2
95°	25.9	59.4	93.0	101.3	180.0	284.9	337.3	301.0	228.4	173.9	167.7
97.5°	44.7	74.4	103.9	111.4	242.5	417.4	504.7	481.8	435.8	401.4	389.6
100°	59.3	86.2	113.0	119.7	265.2	459.2	556.2	557.8	561.2	563.8	549.8
102.5°	71.7	96.8	121.8	128.1	275.6	472.4	570.7	600.0	658.5	702.3	690.4
105°	92.8	114.0	135.2	140.5	283.3	473.9	569.1	634.7	765.7	864.1	857.6
107.5°	114.3	134.1	153.8	158.8	284.8	452.8	536.7	628.1	811.0	948.2	949.7
110°	128.9	146.7	164.6	169.0	282.6	434.1	509.8	612.0	816.5	969.8	976.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	143.2	160.2	177.2	181.5	282.7	417.8	485.3	589.9	799.1	956.0	966.3
115°	164.7	180.4	196.1	200.0	285.3	399.0	455.9	556.7	758.2	909.4	923.7
117.5°	186.0	200.3	214.5	218.1	290.6	387.4	435.7	526.6	708.5	844.9	860.8
120°	198.4	211.8	225.2	228.6	294.9	383.3	427.6	510.7	676.9	801.5	816.9
122.5°	210.6	224.1	237.6	241.0	301.1	381.3	421.4	496.2	645.9	758.1	773.3
125°	229.2	241.5	253.8	256.9	309.5	379.6	414.7	478.2	605.4	700.7	714.6
127.5°	244.3	256.7	269.2	272.3	317.9	378.6	409.0	463.6	572.7	654.5	666.3
130°	252.4	265.8	279.2	282.5	324.0	379.2	406.8	455.4	552.6	625.5	636.4
132.5°	260.7	274.2	287.6	290.9	328.9	379.6	405.0	448.5	535.4	600.7	610.4
135°	273.1	285.3	297.5	300.6	334.3	379.2	401.7	438.2	511.0	565.6	574.1
137.5°	285.8	297.9	309.9	313.0	342.4	381.5	401.1	431.9	493.5	539.7	546.6
140°	296.3	307.5	318.6	321.3	347.3	382.0	399.3	425.9	479.1	518.9	525.4
142.5°	304.3	314.6	324.9	327.5	351.4	383.3	399.3	422.7	469.3	504.4	510.0
145°	316.8	325.8	334.8	337.0	356.9	383.3	396.6	415.7	453.9	482.6	486.8
147.5°	329.2	337.9	346.7	348.9	364.8	386.0	396.6	411.6	441.7	464.3	467.8
150°	337.3	345.2	353.1	355.1	369.0	387.4	396.6	409.3	434.7	453.7	456.5
152.5°	345.6	351.6	357.6	359.1	371.6	388.2	396.6	407.4	429.1	445.3	447.4
155°	358.1	362.5	366.9	368.0	377.5	390.2	396.6	405.2	422.5	435.4	436.8
157.5°	367.2	371.5	375.8	376.9	383.4	392.2	396.6	403.3	416.7	426.8	427.7
160°	373.4	376.7	380.0	380.9	386.1	393.1	396.6	402.4	413.9	422.5	423.0
162.5°	379.6	382.1	384.7	385.3	389.0	394.1	396.6	401.5	411.2	418.4	418.9
165°	386.3	388.6	390.8	391.5	393.2	395.5	396.6	400.1	407.0	412.2	412.8
167.5°	392.5	393.5	394.7	394.9	396.4	398.3	399.3	401.6	406.1	409.5	409.8
170°	396.6	397.6	398.8	399.0	399.1	399.2	399.3	401.6	406.1	409.5	409.5
172.5°	398.8	399.0	399.2	399.3	399.3	399.3	399.3	401.0	404.6	407.3	407.2
175°	401.7	401.7	401.7	401.7	401.0	399.8	399.3	400.4	402.7	404.4	404.4
177.5°	401.7	401.7	401.7	401.7	401.1	400.3	399.8	400.7	402.5	403.8	403.6
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1417.9	1414.0	1417.9	1415.3	1416.6	1412.7	1400.9	1397.0	1400.9	1404.8	1404.8
5°	1434.9	1432.3	1434.9	1434.9	1433.6	1431.0	1417.9	1415.3	1417.9	1419.2	1416.6
7.5°	1440.2	1436.2	1440.2	1437.5	1437.5	1434.9	1421.9	1419.2	1420.5	1424.5	1420.5
10°	1440.2	1436.2	1440.2	1438.9	1437.5	1434.9	1421.9	1416.6	1416.6	1420.5	1416.6
12.5°	1433.6	1431.0	1433.6	1431.0	1431.0	1428.4	1415.3	1410.1	1411.4	1412.7	1407.5
15°	1423.2	1419.2	1423.2	1420.5	1421.9	1417.9	1403.5	1398.3	1398.3	1400.9	1391.8
17.5°	1407.5	1402.2	1407.5	1406.2	1404.8	1402.2	1389.2	1383.9	1382.6	1383.9	1377.4
20°	1389.2	1385.2	1389.2	1387.8	1387.8	1382.6	1369.5	1363.0	1363.0	1363.0	1356.4
22.5°	1360.4	1356.4	1360.4	1363.0	1363.0	1361.7	1349.9	1340.8	1338.1	1338.1	1330.3
25°	1327.7	1323.7	1327.7	1327.7	1326.4	1327.7	1323.7	1318.5	1314.6	1310.7	1302.8
27.5°	1296.3	1293.7	1296.3	1293.7	1296.3	1292.4	1291.0	1289.7	1284.5	1280.6	1270.1
30°	1264.9	1262.3	1264.9	1262.3	1259.7	1257.0	1250.5	1247.9	1253.1	1250.5	1233.5
32.5°	1225.6	1223.0	1225.6	1225.6	1223.0	1223.0	1212.6	1208.6	1209.9	1217.8	1202.1
35°	1185.1	1181.2	1185.1	1183.8	1185.1	1181.2	1174.6	1173.3	1168.1	1177.2	1165.5
37.5°	1138.0	1134.1	1138.0	1138.0	1138.0	1140.6	1135.4	1131.5	1123.6	1135.4	1126.2
40°	1089.6	1084.4	1089.6	1088.3	1089.6	1092.2	1089.6	1087.0	1079.1	1088.3	1080.5
42.5°	1034.7	1033.4	1034.7	1036.0	1036.0	1041.2	1045.1	1039.9	1037.3	1030.7	1036.0
45°	975.8	973.2	975.8	978.4	979.7	982.3	994.1	994.1	990.2	979.7	987.6
47.5°	913.0	906.5	913.0	920.9	920.9	924.8	936.6	945.7	939.2	926.1	930.0
50°	846.3	847.6	846.3	851.5	851.5	865.9	875.1	884.2	890.8	875.1	856.8
52.5°	780.9	779.6	780.9	784.8	790.1	796.6	812.3	821.5	831.9	822.8	794.0
55°	715.5	718.1	715.5	716.8	719.4	723.4	746.9	756.1	775.7	763.9	733.8
57.5°	650.1	646.2	650.1	652.7	654.0	657.9	677.6	694.6	706.3	707.7	671.0
60°	574.2	569.0	574.2	586.0	588.6	591.2	609.6	625.2	635.7	639.6	601.7
62.5°	507.5	498.4	507.5	515.4	520.6	527.1	540.2	563.8	572.9	574.2	520.6
65°	436.9	433.0	436.9	452.6	453.9	461.7	476.1	493.1	512.8	510.1	433.0
67.5°	372.8	372.8	372.8	383.3	391.1	395.0	413.3	421.2	446.0	448.7	361.0
70°	313.9	312.6	313.9	321.8	327.0	336.2	353.2	362.3	382.0	388.5	293.0
72.5°	257.7	256.4	257.7	264.2	269.5	277.3	291.7	302.2	319.2	327.0	227.6
75°	208.0	205.4	208.0	213.2	211.9	222.4	234.1	244.6	260.3	265.5	168.7
77.5°	159.6	159.6	159.6	164.8	164.8	175.3	180.5	193.6	202.7	210.6	124.3
80°	119.0	117.7	119.0	120.3	120.3	125.6	134.7	143.9	151.7	151.7	85.0
82.5°	83.7	81.1	83.7	83.7	83.7	86.3	91.6	94.2	99.4	103.3	53.6
85°	52.3	52.3	52.3	53.6	52.3	54.9	56.2	58.9	58.9	56.2	32.7
87.5°	34.0	32.7	34.0	32.7	32.7	31.4	31.4	31.4	30.1	28.8	18.3
90°	10.2	10.2	10.2	10.2	10.2	13.6	18.2	20.5	17.6	11.9	7.6
92.5°	41.0	32.9	41.0	49.2	51.2	72.6	101.1	115.4	101.3	73.2	52.1
95°	143.0	118.3	143.0	167.7	173.9	228.4	301.0	337.3	284.9	180.0	101.3
97.5°	342.7	295.8	342.7	389.6	401.4	435.8	481.8	504.7	417.4	242.5	111.4
100°	493.8	437.8	493.8	549.8	563.8	561.2	557.8	556.2	459.2	265.2	119.7
102.5°	642.4	594.5	642.4	690.4	702.3	658.5	600.0	570.7	472.4	275.6	128.1
105°	831.9	806.1	831.9	857.6	864.1	765.7	634.7	569.1	473.9	283.3	140.5
107.5°	955.9	962.2	955.9	949.7	948.2	811.0	628.1	536.7	452.8	284.8	158.8
110°	1003.3	1030.1	1003.3	976.5	969.8	816.5	612.0	509.8	434.1	282.6	169.0



TEST NUMBER: P934338

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1007.5	1048.7	1007.5	966.3	956.0	799.1	589.9	485.3	417.8	282.7	181.5
115°	980.8	1038.0	980.8	923.7	909.4	758.2	556.7	455.9	399.0	285.3	200.0
117.5°	924.2	987.6	924.2	860.8	844.9	708.5	526.6	435.7	387.4	290.6	218.1
120°	878.5	940.1	878.5	816.9	801.5	676.9	510.7	427.6	383.3	294.9	228.6
122.5°	834.1	894.8	834.1	773.3	758.1	645.9	496.2	421.4	381.3	301.1	241.0
125°	770.6	826.6	770.6	714.6	700.7	605.4	478.2	414.7	379.6	309.5	256.9
127.5°	713.6	760.8	713.6	666.3	654.5	572.7	463.6	409.0	378.6	317.9	272.3
130°	680.0	723.6	680.0	636.4	625.5	552.6	455.4	406.8	379.2	324.0	282.5
132.5°	649.5	688.6	649.5	610.4	600.7	535.4	448.5	405.0	379.6	328.9	290.9
135°	607.7	641.4	607.7	574.1	565.6	511.0	438.2	401.7	379.2	334.3	300.6
137.5°	574.2	601.8	574.2	546.6	539.7	493.5	431.9	401.1	381.5	342.4	313.0
140°	551.1	576.9	551.1	525.4	518.9	479.1	425.9	399.3	382.0	347.3	321.3
142.5°	532.1	554.3	532.1	510.0	504.4	469.3	422.7	399.3	383.3	351.4	327.5
145°	503.6	520.3	503.6	486.8	482.6	453.9	415.7	396.6	383.3	356.9	337.0
147.5°	481.6	495.5	481.6	467.8	464.3	441.7	411.6	396.6	386.0	364.8	348.9
150°	467.8	479.1	467.8	456.5	453.7	434.7	409.3	396.6	387.4	369.0	355.1
152.5°	456.0	464.5	456.0	447.4	445.3	429.1	407.4	396.6	388.2	371.6	359.1
155°	442.5	448.1	442.5	436.8	435.4	422.5	405.2	396.6	390.2	377.5	368.0
157.5°	431.7	435.7	431.7	427.7	426.8	416.7	403.3	396.6	392.2	383.4	376.9
160°	425.3	427.6	425.3	423.0	422.5	413.9	402.4	396.6	393.1	386.1	380.9
162.5°	421.1	423.3	421.1	418.9	418.4	411.2	401.5	396.6	394.1	389.0	385.3
165°	415.1	417.4	415.1	412.8	412.2	407.0	400.1	396.6	395.5	393.2	391.5
167.5°	410.7	411.7	410.7	409.8	409.5	406.1	401.6	399.3	398.3	396.4	394.9
170°	409.5	409.5	409.5	409.5	409.5	406.1	401.6	399.3	399.2	399.1	399.0
172.5°	406.3	405.5	406.3	407.2	407.3	404.6	401.0	399.3	399.3	399.3	399.3
175°	404.4	404.4	404.4	404.4	404.4	402.7	400.4	399.3	399.8	401.0	401.7
177.5°	402.7	401.7	402.7	403.6	403.8	402.5	400.7	399.8	400.3	401.1	401.7
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



TEST NUMBER: P934338

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1402.2	1394.4	1394.4	1381.3	1376.1	1372.1	1365.6	1346.0	1340.8	1335.5	1343.4
5°	1414.0	1399.6	1389.2	1365.6	1346.0	1338.1	1313.3	1266.2	1234.8	1211.3	1198.2
7.5°	1416.6	1398.3	1378.7	1342.1	1295.0	1274.0	1198.2	1111.8	1088.3	1067.4	1054.3
10°	1414.0	1393.1	1365.6	1310.7	1199.5	1162.9	1087.0	1030.7	1016.4	1012.4	1016.4
12.5°	1404.8	1385.2	1347.3	1255.7	1100.1	1075.2	1030.7	998.0	995.4	1002.0	1037.3
15°	1389.2	1370.8	1326.4	1182.5	1045.1	1026.8	995.4	983.7	998.0	1043.8	1149.8
17.5°	1373.5	1352.5	1297.6	1110.5	1003.3	990.2	968.0	991.5	1072.6	1134.1	1169.4
20°	1352.5	1327.7	1264.9	1058.2	973.2	961.4	951.0	1056.9	1118.4	1140.6	1160.2
22.5°	1327.7	1301.5	1220.4	1021.6	941.8	932.6	939.2	1093.5	1118.4	1134.1	1151.1
25°	1295.0	1272.7	1168.1	992.8	916.9	906.5	931.3	1089.6	1104.0	1107.9	1141.9
27.5°	1264.9	1236.1	1113.2	966.6	886.9	882.9	937.9	1072.6	1083.1	1087.0	1123.6
30°	1228.3	1185.1	1051.7	939.2	855.5	854.2	939.2	1051.7	1049.1	1059.5	1096.1
32.5°	1190.3	1109.2	982.3	905.2	825.4	824.1	930.0	1020.3	1017.7	1032.1	1059.5
35°	1155.0	1050.4	888.2	865.9	787.4	788.8	907.8	983.7	985.0	998.0	1015.0
37.5°	1118.4	999.4	784.8	822.8	750.8	750.8	877.7	949.6	947.0	951.0	974.5
40°	1075.2	919.6	693.3	766.5	716.8	712.9	841.1	913.0	903.9	902.6	935.3
42.5°	1029.4	831.9	625.2	692.0	677.6	672.3	796.6	868.5	851.5	855.5	897.3
45°	979.7	808.4	572.9	584.7	637.0	633.1	748.2	817.5	805.8	816.2	859.4
47.5°	930.0	761.3	555.9	485.3	593.9	592.5	694.6	767.8	761.3	771.8	817.5
50°	862.0	709.0	554.6	416.0	545.5	550.7	630.5	719.4	719.4	728.6	777.0
52.5°	774.4	644.9	503.6	376.7	489.2	504.9	574.2	677.6	680.2	689.3	732.5
55°	694.6	578.2	467.0	346.6	422.5	456.5	519.3	634.4	639.6	648.8	688.0
57.5°	621.3	481.4	459.1	311.3	361.0	393.7	470.9	592.5	595.2	603.0	640.9
60°	542.8	347.9	421.2	273.4	307.4	332.2	426.4	542.8	552.0	557.2	589.9
62.5°	453.9	252.5	382.0	247.2	281.2	286.5	389.8	495.8	507.5	511.4	531.1
65°	323.1	211.9	324.4	225.0	253.8	255.1	350.6	447.4	457.8	464.4	478.7
67.5°	218.4	172.7	247.2	204.1	232.8	234.1	312.6	391.1	405.5	410.7	419.9
70°	151.7	115.1	183.1	181.8	209.3	211.9	272.1	340.1	353.2	357.1	362.3
72.5°	111.2	92.9	151.7	163.5	184.4	187.1	230.2	282.5	295.6	299.5	302.2
75°	85.0	98.1	123.0	142.6	157.0	158.3	188.4	230.2	239.4	242.0	243.3
77.5°	68.0	91.6	90.3	115.1	128.2	125.6	147.8	177.9	185.7	185.7	185.7
80°	51.0	71.9	68.0	82.4	94.2	91.6	106.0	126.9	129.5	132.1	130.8
82.5°	37.9	45.8	45.8	52.3	62.8	60.2	70.6	82.4	82.4	82.4	85.0
85°	23.5	26.2	20.9	27.5	35.3	34.0	39.2	44.5	45.8	45.8	43.2
87.5°	14.4	11.8	6.5	10.5	15.7	15.7	18.3	19.6	18.3	18.3	18.3
90°	7.1	4.9	2.7	4.9	7.1	7.6	11.9	17.6	20.5	18.2	13.6
92.5°	47.4	29.1	10.8	29.1	47.4	52.1	73.2	101.3	115.4	101.1	72.6
95°	93.0	59.4	25.9	59.4	93.0	101.3	180.0	284.9	337.3	301.0	228.4
97.5°	103.9	74.4	44.7	74.4	103.9	111.4	242.5	417.4	504.7	481.8	435.8
100°	113.0	86.2	59.3	86.2	113.0	119.7	265.2	459.2	556.2	557.8	561.2
102.5°	121.8	96.8	71.7	96.8	121.8	128.1	275.6	472.4	570.7	600.0	658.5
105°	135.2	114.0	92.8	114.0	135.2	140.5	283.3	473.9	569.1	634.7	765.7
107.5°	153.8	134.1	114.3	134.1	153.8	158.8	284.8	452.8	536.7	628.1	811.0
110°	164.6	146.7	128.9	146.7	164.6	169.0	282.6	434.1	509.8	612.0	816.5



TEST NUMBER: P934338

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	177.2	160.2	143.2	160.2	177.2	181.5	282.7	417.8	485.3	589.9	799.1
115°	196.1	180.4	164.7	180.4	196.1	200.0	285.3	399.0	455.9	556.7	758.2
117.5°	214.5	200.3	186.0	200.3	214.5	218.1	290.6	387.4	435.7	526.6	708.5
120°	225.2	211.8	198.4	211.8	225.2	228.6	294.9	383.3	427.6	510.7	676.9
122.5°	237.6	224.1	210.6	224.1	237.6	241.0	301.1	381.3	421.4	496.2	645.9
125°	253.8	241.5	229.2	241.5	253.8	256.9	309.5	379.6	414.7	478.2	605.4
127.5°	269.2	256.7	244.3	256.7	269.2	272.3	317.9	378.6	409.0	463.6	572.7
130°	279.2	265.8	252.4	265.8	279.2	282.5	324.0	379.2	406.8	455.4	552.6
132.5°	287.6	274.2	260.7	274.2	287.6	290.9	328.9	379.6	405.0	448.5	535.4
135°	297.5	285.3	273.1	285.3	297.5	300.6	334.3	379.2	401.7	438.2	511.0
137.5°	309.9	297.9	285.8	297.9	309.9	313.0	342.4	381.5	401.1	431.9	493.5
140°	318.6	307.5	296.3	307.5	318.6	321.3	347.3	382.0	399.3	425.9	479.1
142.5°	324.9	314.6	304.3	314.6	324.9	327.5	351.4	383.3	399.3	422.7	469.3
145°	334.8	325.8	316.8	325.8	334.8	337.0	356.9	383.3	396.6	415.7	453.9
147.5°	346.7	337.9	329.2	337.9	346.7	348.9	364.8	386.0	396.6	411.6	441.7
150°	353.1	345.2	337.3	345.2	353.1	355.1	369.0	387.4	396.6	409.3	434.7
152.5°	357.6	351.6	345.6	351.6	357.6	359.1	371.6	388.2	396.6	407.4	429.1
155°	366.9	362.5	358.1	362.5	366.9	368.0	377.5	390.2	396.6	405.2	422.5
157.5°	375.8	371.5	367.2	371.5	375.8	376.9	383.4	392.2	396.6	403.3	416.7
160°	380.0	376.7	373.4	376.7	380.0	380.9	386.1	393.1	396.6	402.4	413.9
162.5°	384.7	382.1	379.6	382.1	384.7	385.3	389.0	394.1	396.6	401.5	411.2
165°	390.8	388.6	386.3	388.6	390.8	391.5	393.2	395.5	396.6	400.1	407.0
167.5°	394.7	393.5	392.5	393.5	394.7	394.9	396.4	398.3	399.3	401.6	406.1
170°	398.8	397.6	396.6	397.6	398.8	399.0	399.1	399.2	399.3	401.6	406.1
172.5°	399.2	399.0	398.8	399.0	399.2	399.3	399.3	399.3	399.3	401.0	404.6
175°	401.7	401.7	401.7	401.7	401.7	401.7	401.0	399.8	399.3	400.4	402.7
177.5°	401.7	401.7	401.7	401.7	401.7	401.7	401.1	400.3	399.8	400.7	402.5
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



TEST NUMBER: P934338

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1334.2	1330.3	1335.5	1321.1	1335.5	1330.3	1334.2	1343.4	1335.5	1340.8	1346.0
5°	1170.7	1164.2	1143.2	1126.2	1143.2	1164.2	1170.7	1198.2	1211.3	1234.8	1266.2
7.5°	1046.4	1041.2	1036.0	1025.5	1036.0	1041.2	1046.4	1054.3	1067.4	1088.3	1111.8
10°	1019.0	1020.3	1028.1	1026.8	1028.1	1020.3	1019.0	1016.4	1012.4	1016.4	1030.7
12.5°	1089.6	1101.4	1144.5	1141.9	1144.5	1101.4	1089.6	1037.3	1002.0	995.4	998.0
15°	1170.7	1174.6	1183.8	1185.1	1183.8	1174.6	1170.7	1149.8	1043.8	998.0	983.7
17.5°	1178.6	1179.9	1186.4	1186.4	1186.4	1179.9	1178.6	1169.4	1134.1	1072.6	991.5
20°	1172.0	1174.6	1187.7	1190.3	1187.7	1174.6	1172.0	1160.2	1140.6	1118.4	1056.9
22.5°	1169.4	1174.6	1185.1	1183.8	1185.1	1174.6	1169.4	1151.1	1134.1	1118.4	1093.5
25°	1156.3	1156.3	1157.6	1158.9	1157.6	1156.3	1156.3	1141.9	1107.9	1104.0	1089.6
27.5°	1128.8	1131.5	1139.3	1138.0	1139.3	1131.5	1128.8	1123.6	1087.0	1083.1	1072.6
30°	1104.0	1101.4	1094.8	1089.6	1094.8	1101.4	1104.0	1096.1	1059.5	1049.1	1051.7
32.5°	1062.1	1055.6	1049.1	1045.1	1049.1	1055.6	1062.1	1059.5	1032.1	1017.7	1020.3
35°	1012.4	1013.7	1012.4	1008.5	1012.4	1013.7	1012.4	1015.0	998.0	985.0	983.7
37.5°	977.1	979.7	978.4	973.2	978.4	979.7	977.1	974.5	951.0	947.0	949.6
40°	940.5	941.8	940.5	936.6	940.5	941.8	940.5	935.3	902.6	903.9	913.0
42.5°	905.2	903.9	899.9	897.3	899.9	903.9	905.2	897.3	855.5	851.5	868.5
45°	864.6	865.9	858.1	854.2	858.1	865.9	864.6	859.4	816.2	805.8	817.5
47.5°	824.1	824.1	817.5	813.6	817.5	824.1	824.1	817.5	771.8	761.3	767.8
50°	780.9	779.6	770.4	769.1	770.4	779.6	780.9	777.0	728.6	719.4	719.4
52.5°	731.2	731.2	732.5	735.1	732.5	731.2	731.2	732.5	689.3	680.2	677.6
55°	688.0	689.3	698.5	701.1	698.5	689.3	688.0	688.0	648.8	639.6	634.4
57.5°	643.6	643.6	650.1	650.1	650.1	643.6	643.6	640.9	603.0	595.2	592.5
60°	592.5	595.2	600.4	599.1	600.4	595.2	592.5	589.9	557.2	552.0	542.8
62.5°	538.9	541.5	542.8	540.2	542.8	541.5	538.9	531.1	511.4	507.5	495.8
65°	482.7	485.3	486.6	484.0	486.6	485.3	482.7	478.7	464.4	457.8	447.4
67.5°	425.1	423.8	422.5	427.7	422.5	423.8	425.1	419.9	410.7	405.5	391.1
70°	366.3	366.3	364.9	367.6	364.9	366.3	366.3	362.3	357.1	353.2	340.1
72.5°	303.5	302.2	307.4	303.5	307.4	302.2	303.5	302.2	299.5	295.6	282.5
75°	242.0	244.6	242.0	245.9	242.0	244.6	242.0	243.3	242.0	239.4	230.2
77.5°	184.4	187.1	184.4	184.4	184.4	187.1	184.4	185.7	185.7	185.7	177.9
80°	130.8	129.5	129.5	128.2	129.5	129.5	130.8	130.8	132.1	129.5	126.9
82.5°	83.7	82.4	82.4	85.0	82.4	82.4	83.7	85.0	82.4	82.4	82.4
85°	45.8	47.1	44.5	44.5	44.5	47.1	45.8	43.2	45.8	45.8	44.5
87.5°	17.0	15.7	15.7	15.7	15.7	15.7	17.0	18.3	18.3	18.3	19.6
90°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	13.6	18.2	20.5	17.6
92.5°	51.2	49.2	41.0	32.9	41.0	49.2	51.2	72.6	101.1	115.4	101.3
95°	173.9	167.7	143.0	118.3	143.0	167.7	173.9	228.4	301.0	337.3	284.9
97.5°	401.4	389.6	342.7	295.8	342.7	389.6	401.4	435.8	481.8	504.7	417.4
100°	563.8	549.8	493.8	437.8	493.8	549.8	563.8	561.2	557.8	556.2	459.2
102.5°	702.3	690.4	642.4	594.5	642.4	690.4	702.3	658.5	600.0	570.7	472.4
105°	864.1	857.6	831.9	806.1	831.9	857.6	864.1	765.7	634.7	569.1	473.9
107.5°	948.2	949.7	955.9	962.2	955.9	949.7	948.2	811.0	628.1	536.7	452.8
110°	969.8	976.5	1003.3	1030.1	1003.3	976.5	969.8	816.5	612.0	509.8	434.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	956.0	966.3	1007.5	1048.7	1007.5	966.3	956.0	799.1	589.9	485.3	417.8
115°	909.4	923.7	980.8	1038.0	980.8	923.7	909.4	758.2	556.7	455.9	399.0
117.5°	844.9	860.8	924.2	987.6	924.2	860.8	844.9	708.5	526.6	435.7	387.4
120°	801.5	816.9	878.5	940.1	878.5	816.9	801.5	676.9	510.7	427.6	383.3
122.5°	758.1	773.3	834.1	894.8	834.1	773.3	758.1	645.9	496.2	421.4	381.3
125°	700.7	714.6	770.6	826.6	770.6	714.6	700.7	605.4	478.2	414.7	379.6
127.5°	654.5	666.3	713.6	760.8	713.6	666.3	654.5	572.7	463.6	409.0	378.6
130°	625.5	636.4	680.0	723.6	680.0	636.4	625.5	552.6	455.4	406.8	379.2
132.5°	600.7	610.4	649.5	688.6	649.5	610.4	600.7	535.4	448.5	405.0	379.6
135°	565.6	574.1	607.7	641.4	607.7	574.1	565.6	511.0	438.2	401.7	379.2
137.5°	539.7	546.6	574.2	601.8	574.2	546.6	539.7	493.5	431.9	401.1	381.5
140°	518.9	525.4	551.1	576.9	551.1	525.4	518.9	479.1	425.9	399.3	382.0
142.5°	504.4	510.0	532.1	554.3	532.1	510.0	504.4	469.3	422.7	399.3	383.3
145°	482.6	486.8	503.6	520.3	503.6	486.8	482.6	453.9	415.7	396.6	383.3
147.5°	464.3	467.8	481.6	495.5	481.6	467.8	464.3	441.7	411.6	396.6	386.0
150°	453.7	456.5	467.8	479.1	467.8	456.5	453.7	434.7	409.3	396.6	387.4
152.5°	445.3	447.4	456.0	464.5	456.0	447.4	445.3	429.1	407.4	396.6	388.2
155°	435.4	436.8	442.5	448.1	442.5	436.8	435.4	422.5	405.2	396.6	390.2
157.5°	426.8	427.7	431.7	435.7	431.7	427.7	426.8	416.7	403.3	396.6	392.2
160°	422.5	423.0	425.3	427.6	425.3	423.0	422.5	413.9	402.4	396.6	393.1
162.5°	418.4	418.9	421.1	423.3	421.1	418.9	418.4	411.2	401.5	396.6	394.1
165°	412.2	412.8	415.1	417.4	415.1	412.8	412.2	407.0	400.1	396.6	395.5
167.5°	409.5	409.8	410.7	411.7	410.7	409.8	409.5	406.1	401.6	399.3	398.3
170°	409.5	409.5	409.5	409.5	409.5	409.5	409.5	406.1	401.6	399.3	399.2
172.5°	407.3	407.2	406.3	405.5	406.3	407.2	407.3	404.6	401.0	399.3	399.3
175°	404.4	404.4	404.4	404.4	404.4	404.4	404.4	402.7	400.4	399.3	399.8
177.5°	403.8	403.6	402.7	401.7	402.7	403.6	403.8	402.5	400.7	399.8	400.3
180°	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7	401.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1365.6	1372.1	1376.1	1381.3	1394.4
5°	1313.3	1338.1	1346.0	1365.6	1389.2
7.5°	1198.2	1274.0	1295.0	1342.1	1378.7
10°	1087.0	1162.9	1199.5	1310.7	1365.6
12.5°	1030.7	1075.2	1100.1	1255.7	1347.3
15°	995.4	1026.8	1045.1	1182.5	1326.4
17.5°	968.0	990.2	1003.3	1110.5	1297.6
20°	951.0	961.4	973.2	1058.2	1264.9
22.5°	939.2	932.6	941.8	1021.6	1220.4
25°	931.3	906.5	916.9	992.8	1168.1
27.5°	937.9	882.9	886.9	966.6	1113.2
30°	939.2	854.2	855.5	939.2	1051.7
32.5°	930.0	824.1	825.4	905.2	982.3
35°	907.8	788.8	787.4	865.9	888.2
37.5°	877.7	750.8	750.8	822.8	784.8
40°	841.1	712.9	716.8	766.5	693.3
42.5°	796.6	672.3	677.6	692.0	625.2
45°	748.2	633.1	637.0	584.7	572.9
47.5°	694.6	592.5	593.9	485.3	555.9
50°	630.5	550.7	545.5	416.0	554.6
52.5°	574.2	504.9	489.2	376.7	503.6
55°	519.3	456.5	422.5	346.6	467.0
57.5°	470.9	393.7	361.0	311.3	459.1
60°	426.4	332.2	307.4	273.4	421.2
62.5°	389.8	286.5	281.2	247.2	382.0
65°	350.6	255.1	253.8	225.0	324.4
67.5°	312.6	234.1	232.8	204.1	247.2
70°	272.1	211.9	209.3	181.8	183.1
72.5°	230.2	187.1	184.4	163.5	151.7
75°	188.4	158.3	157.0	142.6	123.0
77.5°	147.8	125.6	128.2	115.1	90.3
80°	106.0	91.6	94.2	82.4	68.0
82.5°	70.6	60.2	62.8	52.3	45.8
85°	39.2	34.0	35.3	27.5	20.9
87.5°	18.3	15.7	15.7	10.5	6.5
90°	11.9	7.6	7.1	4.9	2.7
92.5°	73.2	52.1	47.4	29.1	10.8
95°	180.0	101.3	93.0	59.4	25.9
97.5°	242.5	111.4	103.9	74.4	44.7
100°	265.2	119.7	113.0	86.2	59.3
102.5°	275.6	128.1	121.8	96.8	71.7
105°	283.3	140.5	135.2	114.0	92.8
107.5°	284.8	158.8	153.8	134.1	114.3
110°	282.6	169.0	164.6	146.7	128.9



TEST NUMBER: P934338

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	282.7	181.5	177.2	160.2	143.2
115°	285.3	200.0	196.1	180.4	164.7
117.5°	290.6	218.1	214.5	200.3	186.0
120°	294.9	228.6	225.2	211.8	198.4
122.5°	301.1	241.0	237.6	224.1	210.6
125°	309.5	256.9	253.8	241.5	229.2
127.5°	317.9	272.3	269.2	256.7	244.3
130°	324.0	282.5	279.2	265.8	252.4
132.5°	328.9	290.9	287.6	274.2	260.7
135°	334.3	300.6	297.5	285.3	273.1
137.5°	342.4	313.0	309.9	297.9	285.8
140°	347.3	321.3	318.6	307.5	296.3
142.5°	351.4	327.5	324.9	314.6	304.3
145°	356.9	337.0	334.8	325.8	316.8
147.5°	364.8	348.9	346.7	337.9	329.2
150°	369.0	355.1	353.1	345.2	337.3
152.5°	371.6	359.1	357.6	351.6	345.6
155°	377.5	368.0	366.9	362.5	358.1
157.5°	383.4	376.9	375.8	371.5	367.2
160°	386.1	380.9	380.0	376.7	373.4
162.5°	389.0	385.3	384.7	382.1	379.6
165°	393.2	391.5	390.8	388.6	386.3
167.5°	396.4	394.9	394.7	393.5	392.5
170°	399.1	399.0	398.8	397.6	396.6
172.5°	399.3	399.3	399.2	399.0	398.8
175°	401.0	401.7	401.7	401.7	401.7
177.5°	401.1	401.7	401.7	401.7	401.7
180°	401.7	401.7	401.7	401.7	401.7



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.96	13.90	13.85	14.81	15.96	15.79	16.72	16.67	17.63	18.78
	3H	13.44	14.28	14.34	15.20	16.38	17.14	17.98	18.03	18.89	20.07
	4H	13.64	14.43	14.55	15.35	16.54	17.58	18.38	18.50	19.30	20.49
	6H	13.76	14.49	14.69	15.42	16.62	17.87	18.60	18.79	19.53	20.73
	8H	13.77	14.46	14.70	15.41	16.61	17.95	18.64	18.88	19.59	20.79
	12H	13.74	14.40	14.68	15.34	16.57	17.99	18.65	18.92	19.59	20.81
4H	2H	14.00	14.80	14.92	15.72	16.91	16.20	17.00	17.12	17.92	19.11
	3H	15.04	15.70	15.97	16.65	17.85	17.72	18.38	18.65	19.33	20.53
	4H	15.32	15.92	16.26	16.87	18.09	18.25	18.85	19.19	19.80	21.02
	6H	15.45	15.97	16.40	16.94	18.16	18.61	19.13	19.57	20.11	21.33
	8H	15.45	15.94	16.41	16.90	18.15	18.72	19.21	19.68	20.17	21.41
	12H	15.42	15.86	16.40	16.84	18.09	18.78	19.22	19.76	20.20	21.45
8H	4H	15.77	16.26	16.73	17.23	18.47	18.38	18.86	19.33	19.83	21.07
	6H	16.04	16.44	17.02	17.45	18.69	18.81	19.22	19.80	20.22	21.46
	8H	16.08	16.44	17.07	17.43	18.69	18.97	19.32	19.96	20.32	21.58
	12H	16.07	16.38	17.06	17.37	18.68	19.07	19.38	20.06	20.37	21.67
12H	4H	15.78	16.22	16.76	17.20	18.45	18.34	18.78	19.32	19.77	21.01
	6H	16.10	16.46	17.09	17.45	18.71	18.81	19.17	19.80	20.16	21.42
	8H	16.17	16.48	17.16	17.47	18.78	18.98	19.29	19.97	20.28	21.58