

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: P934341

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934341
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-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

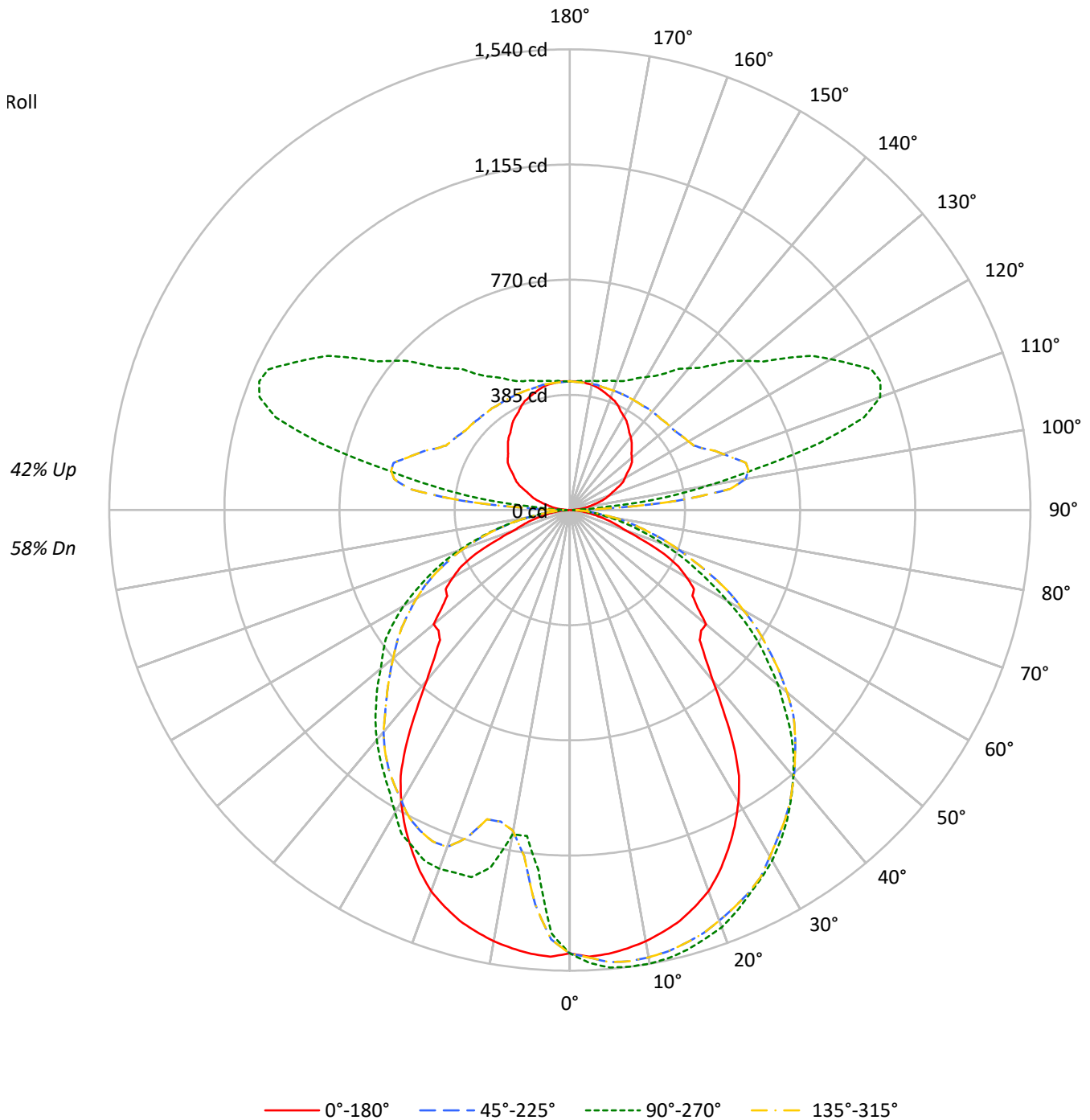
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6635.4 lumens
Efficiency: N/A
Efficacy: 121.5 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

TEST NUMBER: P934341
CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P934341

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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°	9168	9168	9168	9168
5°	9233	9255	9233	7277
10°	9167	9116	9167	6517
15°	9065	8918	9065	7447
20°	8872	8685	8872	7463
25°	8480	8343	8480	7304
30°	7976	8060	7976	6957
35°	7106	7702	7106	6576
40°	5918	7280	5918	6288
45°	5284	6786	5284	5956
50°	5610	6197	5610	5623
55°	5273	5562	5273	5431
60°	5429	4724	5429	4974
65°	4914	3905	4914	4366
70°	3395	3112	3395	3659
75°	2966	2300	2966	2755
80°	2373	1521	2373	1656
85°	1335	806	1335	685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8104 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	2.0
10°-20°	379.8	5.7
20°-30°	587.1	8.8
30°-40°	700.9	10.6
40°-50°	705.0	10.6
50°-60°	613.5	9.2
60°-70°	435.0	6.6
70°-80°	230.1	3.5
80°-90°	58.9	0.9
90°-100°	209.9	3.2
100°-110°	551.8	8.3
110°-120°	572.2	8.6
120°-130°	458.9	6.9
130°-140°	360.1	5.4
140°-150°	276.4	4.2
150°-160°	199.1	3.0
160°-170°	121.8	1.8
170°-180°	41.1	0.6
0°-30°	1100.7	16.6
0°-40°	1801.6	27.2
0°-60°	3120.1	47.0
0°-90°	3844.1	57.9
90°-120°	1333.8	20.1
90°-150°	2429.3	36.6
90°-180°	2791.0	42.1
0°-180°	6635.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1482	1482	1482	1482	1482	
5°	1489	1535	1489	1207	1489	141
15°	1422	1521	1422	1270	1422	400
25°	1252	1419	1252	1242	1252	575
35°	952	1266	952	1081	952	589
45°	614	1043	614	916	614	492
55°	500	770	500	752	500	460
65°	348	464	348	519	348	332
75°	132	220	132	264	132	139
85°	22	56	22	48	22	30
90°	3	11	3	11	3	3
95°	28	127	28	127	28	31
105°	100	864	100	864	100	105
115°	177	1113	177	1113	177	174
125°	246	886	246	886	246	218
135°	293	688	293	688	293	226
145°	340	558	340	558	340	213
155°	384	480	384	480	384	176
165°	414	447	414	447	414	117
175°	431	433	431	433	431	41
180°	431	431	431	431	431	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1494.6	1494.6	1503.0	1505.8	1505.8	1501.6	1497.4	1501.6	1514.2	1518.4	1517.0
5°	1489.0	1500.2	1515.6	1518.4	1521.2	1519.8	1517.0	1519.8	1533.9	1536.7	1538.1
7.5°	1477.8	1498.8	1518.4	1522.6	1526.8	1522.6	1521.2	1524.0	1538.1	1540.9	1540.9
10°	1463.7	1493.2	1515.6	1518.4	1522.6	1518.4	1518.4	1524.0	1538.1	1540.9	1542.3
12.5°	1444.1	1484.8	1505.8	1508.6	1514.2	1512.8	1511.4	1517.0	1531.0	1533.9	1533.9
15°	1421.7	1469.4	1489.0	1491.8	1501.6	1498.8	1498.8	1504.4	1519.8	1524.0	1522.6
17.5°	1390.8	1449.7	1472.2	1476.4	1483.4	1482.0	1483.4	1489.0	1503.0	1505.8	1507.2
20°	1355.8	1423.1	1449.7	1453.9	1460.9	1460.9	1460.9	1468.0	1482.0	1487.6	1487.6
22.5°	1308.1	1395.0	1423.1	1425.9	1434.3	1434.3	1437.1	1446.9	1459.5	1460.9	1460.9
25°	1252.0	1364.2	1388.0	1396.5	1404.9	1409.1	1413.3	1418.9	1423.1	1421.7	1423.1
27.5°	1193.2	1324.9	1355.8	1361.4	1372.6	1376.8	1382.4	1383.8	1385.2	1389.4	1386.6
30°	1127.3	1270.3	1316.5	1322.1	1340.4	1343.2	1337.6	1340.4	1347.4	1350.2	1353.0
32.5°	1052.9	1188.9	1275.9	1288.5	1305.3	1296.9	1295.5	1299.7	1310.9	1310.9	1313.7
35°	952.0	1125.9	1238.0	1249.2	1261.9	1252.0	1257.6	1259.0	1266.1	1270.3	1268.9
37.5°	841.2	1071.2	1198.8	1207.2	1217.0	1204.4	1212.8	1217.0	1222.6	1219.8	1219.8
40°	743.1	985.6	1152.5	1158.1	1166.5	1156.7	1165.1	1167.9	1170.7	1167.9	1166.5
42.5°	670.2	891.7	1103.4	1110.4	1104.8	1111.8	1114.6	1120.2	1116.0	1110.4	1110.4
45°	614.1	866.5	1050.1	1058.6	1050.1	1061.4	1065.6	1065.6	1052.9	1050.1	1048.7
47.5°	595.9	816.0	996.9	996.9	992.7	1006.7	1013.7	1003.9	991.3	987.0	987.0
50°	594.5	759.9	924.0	918.3	938.0	954.8	947.8	938.0	928.2	912.7	912.7
52.5°	539.8	691.2	830.0	851.0	881.9	891.7	880.5	870.7	853.9	846.8	841.2
55°	500.5	619.7	744.5	786.6	818.8	831.4	810.4	800.6	775.3	771.1	768.3
57.5°	492.1	516.0	666.0	719.3	758.5	757.1	744.5	726.3	705.2	701.0	699.6
60°	451.5	372.9	581.9	644.9	685.6	681.4	670.2	653.4	633.7	630.9	628.1
62.5°	409.4	270.6	486.5	558.0	615.5	614.1	604.3	579.1	565.0	558.0	552.4
65°	347.7	227.1	346.3	464.1	546.8	549.6	528.6	510.3	494.9	486.5	485.1
67.5°	265.0	185.1	234.1	387.0	480.9	478.1	451.5	443.1	423.4	419.2	410.8
70°	196.3	123.4	162.6	314.1	416.4	409.4	388.4	378.6	360.3	350.5	344.9
72.5°	162.6	99.5	119.2	244.0	350.5	342.1	323.9	312.7	297.2	288.8	283.2
75°	131.8	105.2	91.1	180.9	284.6	279.0	262.2	251.0	238.4	227.1	228.5
77.5°	96.7	98.1	72.9	133.2	225.7	217.3	207.5	193.5	187.9	176.7	176.7
80°	72.9	77.1	54.7	91.1	162.6	162.6	154.2	144.4	134.6	129.0	129.0
82.5°	49.1	49.1	40.7	57.5	110.8	106.6	100.9	98.1	92.5	89.7	89.7
85°	22.4	28.0	25.2	35.1	60.3	63.1	63.1	60.3	58.9	56.1	57.5
87.5°	7.0	12.6	15.4	19.6	30.8	32.2	33.6	33.6	33.6	35.1	35.1
90°	2.9	5.2	7.6	8.1	12.7	18.9	22.0	19.5	14.6	10.9	10.9
92.5°	11.6	31.2	50.8	55.8	78.4	108.6	123.7	108.3	77.8	54.9	52.7
95°	27.8	63.7	99.6	108.6	192.9	305.4	361.5	322.7	244.8	186.4	179.7
97.5°	48.0	79.7	111.4	119.4	259.9	447.4	541.0	516.4	467.2	430.2	417.6
100°	63.6	92.3	121.1	128.3	284.2	492.2	596.2	597.9	601.6	604.3	589.3
102.5°	76.8	103.8	130.6	137.3	295.5	506.3	611.8	643.1	705.8	752.8	740.0
105°	99.5	122.2	144.9	150.6	303.7	507.9	610.0	680.3	820.8	926.2	919.3
107.5°	122.5	143.8	164.9	170.2	305.3	485.3	575.3	673.3	869.3	1016.3	1018.0
110°	138.1	157.2	176.4	181.1	302.9	465.3	546.4	656.0	875.2	1039.5	1046.7



TEST NUMBER: P934341

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.5	171.7	189.9	194.5	303.0	447.8	520.2	632.3	856.6	1024.7	1035.7
115°	176.6	193.4	210.2	214.4	305.8	427.7	488.7	596.7	812.7	974.7	990.0
117.5°	199.4	214.7	229.9	233.8	311.5	415.2	467.0	564.5	759.4	905.6	922.6
120°	212.6	227.0	241.4	245.1	316.1	410.9	458.3	547.4	725.5	859.1	875.6
122.5°	225.7	240.2	254.7	258.4	322.8	408.7	451.6	531.8	692.3	812.6	828.9
125°	245.6	258.8	272.1	275.4	331.7	406.9	444.5	512.6	648.9	751.0	766.0
127.5°	261.8	275.2	288.5	291.9	340.7	405.8	438.4	496.9	613.8	701.6	714.2
130°	270.5	284.9	299.3	302.8	347.2	406.4	436.0	488.1	592.3	670.5	682.1
132.5°	279.5	293.9	308.3	311.8	352.6	406.9	434.1	480.7	573.9	643.8	654.3
135°	292.7	305.8	318.9	322.2	358.4	406.5	430.6	469.7	547.7	606.3	615.3
137.5°	306.3	319.3	332.2	335.5	367.0	408.9	430.0	463.0	529.0	578.5	585.9
140°	317.6	329.6	341.4	344.4	372.3	409.4	428.0	456.5	513.5	556.2	563.2
142.5°	326.2	337.2	348.3	351.1	376.7	410.9	428.0	453.1	503.1	540.6	546.6
145°	339.6	349.2	358.8	361.3	382.6	410.9	425.1	445.6	486.5	517.3	521.8
147.5°	352.9	362.2	371.6	374.0	391.0	413.7	425.1	441.2	473.4	497.6	501.4
150°	361.5	370.1	378.5	380.6	395.5	415.2	425.1	438.8	466.0	486.3	489.3
152.5°	370.4	376.9	383.3	384.9	398.3	416.1	425.1	436.7	460.0	477.4	479.6
155°	383.8	388.6	393.2	394.4	404.6	418.3	425.1	434.4	452.9	466.7	468.2
157.5°	393.6	398.2	402.9	404.0	411.0	420.4	425.1	432.3	446.7	457.4	458.5
160°	400.2	403.8	407.3	408.3	413.9	421.4	425.1	431.3	443.6	452.9	453.4
162.5°	406.9	409.6	412.3	413.0	417.0	422.4	425.1	430.3	440.7	448.5	449.0
165°	414.1	416.5	418.9	419.6	421.5	423.9	425.1	428.8	436.2	441.8	442.5
167.5°	420.7	421.8	423.0	423.3	424.9	427.0	428.0	430.4	435.3	438.9	439.2
170°	425.1	426.2	427.4	427.7	427.8	427.9	428.0	430.4	435.3	438.9	438.9
172.5°	427.4	427.7	427.9	428.0	428.0	428.0	428.0	429.9	433.7	436.6	436.4
175°	430.6	430.6	430.6	430.6	429.8	428.6	428.0	429.2	431.6	433.4	433.4
177.5°	430.6	430.6	430.6	430.6	430.0	429.0	428.6	429.5	431.5	432.9	432.6
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1519.8	1515.6	1519.8	1517.0	1518.4	1514.2	1501.6	1497.4	1501.6	1505.8	1505.8
5°	1538.1	1535.3	1538.1	1538.1	1536.7	1533.9	1519.8	1517.0	1519.8	1521.2	1518.4
7.5°	1543.7	1539.5	1543.7	1540.9	1540.9	1538.1	1524.0	1521.2	1522.6	1526.8	1522.6
10°	1543.7	1539.5	1543.7	1542.3	1540.9	1538.1	1524.0	1518.4	1518.4	1522.6	1518.4
12.5°	1536.7	1533.9	1536.7	1533.9	1533.9	1531.0	1517.0	1511.4	1512.8	1514.2	1508.6
15°	1525.4	1521.2	1525.4	1522.6	1524.0	1519.8	1504.4	1498.8	1498.8	1501.6	1491.8
17.5°	1508.6	1503.0	1508.6	1507.2	1505.8	1503.0	1489.0	1483.4	1482.0	1483.4	1476.4
20°	1489.0	1484.8	1489.0	1487.6	1487.6	1482.0	1468.0	1460.9	1460.9	1460.9	1453.9
22.5°	1458.1	1453.9	1458.1	1460.9	1460.9	1459.5	1446.9	1437.1	1434.3	1434.3	1425.9
25°	1423.1	1418.9	1423.1	1423.1	1421.7	1423.1	1418.9	1413.3	1409.1	1404.9	1396.5
27.5°	1389.4	1386.6	1389.4	1386.6	1389.4	1385.2	1383.8	1382.4	1376.8	1372.6	1361.4
30°	1355.8	1353.0	1355.8	1353.0	1350.2	1347.4	1340.4	1337.6	1343.2	1340.4	1322.1
32.5°	1313.7	1310.9	1313.7	1313.7	1310.9	1310.9	1299.7	1295.5	1296.9	1305.3	1288.5
35°	1270.3	1266.1	1270.3	1268.9	1270.3	1266.1	1259.0	1257.6	1252.0	1261.9	1249.2
37.5°	1219.8	1215.6	1219.8	1219.8	1219.8	1222.6	1217.0	1212.8	1204.4	1217.0	1207.2
40°	1167.9	1162.3	1167.9	1166.5	1167.9	1170.7	1167.9	1165.1	1156.7	1166.5	1158.1
42.5°	1109.0	1107.6	1109.0	1110.4	1110.4	1116.0	1120.2	1114.6	1111.8	1104.8	1110.4
45°	1045.9	1043.1	1045.9	1048.7	1050.1	1052.9	1065.6	1065.6	1061.4	1050.1	1058.6
47.5°	978.6	971.6	978.6	987.0	987.0	991.3	1003.9	1013.7	1006.7	992.7	996.9
50°	907.1	908.5	907.1	912.7	912.7	928.2	938.0	947.8	954.8	938.0	918.3
52.5°	837.0	835.6	837.0	841.2	846.8	853.9	870.7	880.5	891.7	881.9	851.0
55°	766.9	769.7	766.9	768.3	771.1	775.3	800.6	810.4	831.4	818.8	786.6
57.5°	696.8	692.6	696.8	699.6	701.0	705.2	726.3	744.5	757.1	758.5	719.3
60°	615.5	609.9	615.5	628.1	630.9	633.7	653.4	670.2	681.4	685.6	644.9
62.5°	544.0	534.2	544.0	552.4	558.0	565.0	579.1	604.3	614.1	615.5	558.0
65°	468.3	464.1	468.3	485.1	486.5	494.9	510.3	528.6	549.6	546.8	464.1
67.5°	399.6	399.6	399.6	410.8	419.2	423.4	443.1	451.5	478.1	480.9	387.0
70°	336.5	335.1	336.5	344.9	350.5	360.3	378.6	388.4	409.4	416.4	314.1
72.5°	276.2	274.8	276.2	283.2	288.8	297.2	312.7	323.9	342.1	350.5	244.0
75°	222.9	220.1	222.9	228.5	227.1	238.4	251.0	262.2	279.0	284.6	180.9
77.5°	171.1	171.1	171.1	176.7	176.7	187.9	193.5	207.5	217.3	225.7	133.2
80°	127.6	126.2	127.6	129.0	129.0	134.6	144.4	154.2	162.6	162.6	91.1
82.5°	89.7	86.9	89.7	89.7	89.7	92.5	98.1	100.9	106.6	110.8	57.5
85°	56.1	56.1	56.1	57.5	56.1	58.9	60.3	63.1	63.1	60.3	35.1
87.5°	36.5	35.1	36.5	35.1	35.1	33.6	33.6	33.6	32.2	30.8	19.6
90°	10.9	10.9	10.9	10.9	10.9	14.6	19.5	22.0	18.9	12.7	8.1
92.5°	43.9	35.2	43.9	52.7	54.9	77.8	108.3	123.7	108.6	78.4	55.8
95°	153.3	126.8	153.3	179.7	186.4	244.8	322.7	361.5	305.4	192.9	108.6
97.5°	367.3	317.1	367.3	417.6	430.2	467.2	516.4	541.0	447.4	259.9	119.4
100°	529.3	469.3	529.3	589.3	604.3	601.6	597.9	596.2	492.2	284.2	128.3
102.5°	688.6	637.2	688.6	740.0	752.8	705.8	643.1	611.8	506.3	295.5	137.3
105°	891.7	864.0	891.7	919.3	926.2	820.8	680.3	610.0	507.9	303.7	150.6
107.5°	1024.6	1031.4	1024.6	1018.0	1016.3	869.3	673.3	575.3	485.3	305.3	170.2
110°	1075.4	1104.2	1075.4	1046.7	1039.5	875.2	656.0	546.4	465.3	302.9	181.1



TEST NUMBER: P934341

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1080.0	1124.1	1080.0	1035.7	1024.7	856.6	632.3	520.2	447.8	303.0	194.5
115°	1051.3	1112.6	1051.3	990.0	974.7	812.7	596.7	488.7	427.7	305.8	214.4
117.5°	990.6	1058.6	990.6	922.6	905.6	759.4	564.5	467.0	415.2	311.5	233.8
120°	941.6	1007.7	941.6	875.6	859.1	725.5	547.4	458.3	410.9	316.1	245.1
122.5°	894.0	959.1	894.0	828.9	812.6	692.3	531.8	451.6	408.7	322.8	258.4
125°	826.0	886.0	826.0	766.0	751.0	648.9	512.6	444.5	406.9	331.7	275.4
127.5°	764.9	815.5	764.9	714.2	701.6	613.8	496.9	438.4	405.8	340.7	291.9
130°	728.9	775.6	728.9	682.1	670.5	592.3	488.1	436.0	406.4	347.2	302.8
132.5°	696.2	738.0	696.2	654.3	643.8	573.9	480.7	434.1	406.9	352.6	311.8
135°	651.4	687.5	651.4	615.3	606.3	547.7	469.7	430.6	406.5	358.4	322.2
137.5°	615.5	645.0	615.5	585.9	578.5	529.0	463.0	430.0	408.9	367.0	335.5
140°	590.7	618.4	590.7	563.2	556.2	513.5	456.5	428.0	409.4	372.3	344.4
142.5°	570.4	594.1	570.4	546.6	540.6	503.1	453.1	428.0	410.9	376.7	351.1
145°	539.8	557.7	539.8	521.8	517.3	486.5	445.6	425.1	410.9	382.6	361.3
147.5°	516.2	531.1	516.2	501.4	497.6	473.4	441.2	425.1	413.7	391.0	374.0
150°	501.5	513.5	501.5	489.3	486.3	466.0	438.8	425.1	415.2	395.5	380.6
152.5°	488.8	497.9	488.8	479.6	477.4	460.0	436.7	425.1	416.1	398.3	384.9
155°	474.3	480.3	474.3	468.2	466.7	452.9	434.4	425.1	418.3	404.6	394.4
157.5°	462.8	467.0	462.8	458.5	457.4	446.7	432.3	425.1	420.4	411.0	404.0
160°	455.9	458.3	455.9	453.4	452.9	443.6	431.3	425.1	421.4	413.9	408.3
162.5°	451.4	453.7	451.4	449.0	448.5	440.7	430.3	425.1	422.4	417.0	413.0
165°	444.9	447.4	444.9	442.5	441.8	436.2	428.8	425.1	423.9	421.5	419.6
167.5°	440.2	441.3	440.2	439.2	438.9	435.3	430.4	428.0	427.0	424.9	423.3
170°	438.9	438.9	438.9	438.9	438.9	435.3	430.4	428.0	427.9	427.8	427.7
172.5°	435.5	434.6	435.5	436.4	436.6	433.7	429.9	428.0	428.0	428.0	428.0
175°	433.4	433.4	433.4	433.4	433.4	431.6	429.2	428.0	428.6	429.8	430.6
177.5°	431.6	430.6	431.6	432.6	432.9	431.5	429.5	428.6	429.0	430.0	430.6
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6



TEST NUMBER: P934341

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1503.0	1494.6	1494.6	1480.6	1475.0	1470.8	1463.7	1442.7	1437.1	1431.5	1439.9
5°	1515.6	1500.2	1489.0	1463.7	1442.7	1434.3	1407.7	1357.2	1323.5	1298.3	1284.3
7.5°	1518.4	1498.8	1477.8	1438.5	1388.0	1365.6	1284.3	1191.8	1166.5	1144.1	1130.1
10°	1515.6	1493.2	1463.7	1404.9	1285.7	1246.4	1165.1	1104.8	1089.4	1085.2	1089.4
12.5°	1505.8	1484.8	1444.1	1346.0	1179.1	1152.5	1104.8	1069.8	1067.0	1074.0	1111.8
15°	1489.0	1469.4	1421.7	1267.5	1120.2	1100.6	1067.0	1054.3	1069.8	1118.8	1232.4
17.5°	1472.2	1449.7	1390.8	1190.3	1075.4	1061.4	1037.5	1062.8	1149.7	1215.6	1253.4
20°	1449.7	1423.1	1355.8	1134.3	1043.1	1030.5	1019.3	1132.9	1198.8	1222.6	1243.6
22.5°	1423.1	1395.0	1308.1	1095.0	1009.5	999.7	1006.7	1172.1	1198.8	1215.6	1233.8
25°	1388.0	1364.2	1252.0	1064.2	982.8	971.6	998.3	1167.9	1183.3	1187.5	1224.0
27.5°	1355.8	1324.9	1193.2	1036.1	950.6	946.4	1005.3	1149.7	1160.9	1165.1	1204.4
30°	1316.5	1270.3	1127.3	1006.7	916.9	915.5	1006.7	1127.3	1124.5	1135.7	1174.9
32.5°	1275.9	1188.9	1052.9	970.2	884.7	883.3	996.9	1093.6	1090.8	1106.2	1135.7
35°	1238.0	1125.9	952.0	928.2	844.0	845.4	973.0	1054.3	1055.8	1069.8	1088.0
37.5°	1198.8	1071.2	841.2	881.9	804.8	804.8	940.8	1017.9	1015.1	1019.3	1044.5
40°	1152.5	985.6	743.1	821.6	768.3	764.1	901.5	978.6	968.8	967.4	1002.5
42.5°	1103.4	891.7	670.2	741.7	726.3	720.7	853.9	931.0	912.7	916.9	961.8
45°	1050.1	866.5	614.1	626.7	682.8	678.6	802.0	876.3	863.7	874.9	921.2
47.5°	996.9	816.0	595.9	520.2	636.5	635.1	744.5	823.0	816.0	827.2	876.3
50°	924.0	759.9	594.5	445.9	584.7	590.3	675.8	771.1	771.1	780.9	832.8
52.5°	830.0	691.2	539.8	403.8	524.4	541.2	615.5	726.3	729.1	738.9	785.2
55°	744.5	619.7	500.5	371.5	452.9	489.3	556.6	680.0	685.6	695.4	737.5
57.5°	666.0	516.0	492.1	333.7	387.0	422.0	504.7	635.1	637.9	646.3	687.0
60°	581.9	372.9	451.5	293.0	329.5	356.1	457.1	581.9	591.7	597.3	632.3
62.5°	486.5	270.6	409.4	265.0	301.4	307.1	417.8	531.4	544.0	548.2	569.2
65°	346.3	227.1	347.7	241.2	272.0	273.4	375.8	479.5	490.7	497.7	513.2
67.5°	234.1	185.1	265.0	218.7	249.6	251.0	335.1	419.2	434.6	440.2	450.1
70°	162.6	123.4	196.3	194.9	224.3	227.1	291.6	364.5	378.6	382.8	388.4
72.5°	119.2	99.5	162.6	175.3	197.7	200.5	246.8	302.8	316.9	321.1	323.9
75°	91.1	105.2	131.8	152.8	168.2	169.6	201.9	246.8	256.6	259.4	260.8
77.5°	72.9	98.1	96.7	123.4	137.4	134.6	158.4	190.7	199.1	199.1	199.1
80°	54.7	77.1	72.9	88.3	100.9	98.1	113.6	136.0	138.8	141.6	140.2
82.5°	40.7	49.1	49.1	56.1	67.3	64.5	75.7	88.3	88.3	88.3	91.1
85°	25.2	28.0	22.4	29.4	37.9	36.5	42.1	47.7	49.1	49.1	46.3
87.5°	15.4	12.6	7.0	11.2	16.8	16.8	19.6	21.0	19.6	19.6	19.6
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.7	18.9	22.0	19.5	14.6
92.5°	50.8	31.2	11.6	31.2	50.8	55.8	78.4	108.6	123.7	108.3	77.8
95°	99.6	63.7	27.8	63.7	99.6	108.6	192.9	305.4	361.5	322.7	244.8
97.5°	111.4	79.7	48.0	79.7	111.4	119.4	259.9	447.4	541.0	516.4	467.2
100°	121.1	92.3	63.6	92.3	121.1	128.3	284.2	492.2	596.2	597.9	601.6
102.5°	130.6	103.8	76.8	103.8	130.6	137.3	295.5	506.3	611.8	643.1	705.8
105°	144.9	122.2	99.5	122.2	144.9	150.6	303.7	507.9	610.0	680.3	820.8
107.5°	164.9	143.8	122.5	143.8	164.9	170.2	305.3	485.3	575.3	673.3	869.3
110°	176.4	157.2	138.1	157.2	176.4	181.1	302.9	465.3	546.4	656.0	875.2



TEST NUMBER: P934341

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	189.9	171.7	153.5	171.7	189.9	194.5	303.0	447.8	520.2	632.3	856.6
115°	210.2	193.4	176.6	193.4	210.2	214.4	305.8	427.7	488.7	596.7	812.7
117.5°	229.9	214.7	199.4	214.7	229.9	233.8	311.5	415.2	467.0	564.5	759.4
120°	241.4	227.0	212.6	227.0	241.4	245.1	316.1	410.9	458.3	547.4	725.5
122.5°	254.7	240.2	225.7	240.2	254.7	258.4	322.8	408.7	451.6	531.8	692.3
125°	272.1	258.8	245.6	258.8	272.1	275.4	331.7	406.9	444.5	512.6	648.9
127.5°	288.5	275.2	261.8	275.2	288.5	291.9	340.7	405.8	438.4	496.9	613.8
130°	299.3	284.9	270.5	284.9	299.3	302.8	347.2	406.4	436.0	488.1	592.3
132.5°	308.3	293.9	279.5	293.9	308.3	311.8	352.6	406.9	434.1	480.7	573.9
135°	318.9	305.8	292.7	305.8	318.9	322.2	358.4	406.5	430.6	469.7	547.7
137.5°	332.2	319.3	306.3	319.3	332.2	335.5	367.0	408.9	430.0	463.0	529.0
140°	341.4	329.6	317.6	329.6	341.4	344.4	372.3	409.4	428.0	456.5	513.5
142.5°	348.3	337.2	326.2	337.2	348.3	351.1	376.7	410.9	428.0	453.1	503.1
145°	358.8	349.2	339.6	349.2	358.8	361.3	382.6	410.9	425.1	445.6	486.5
147.5°	371.6	362.2	352.9	362.2	371.6	374.0	391.0	413.7	425.1	441.2	473.4
150°	378.5	370.1	361.5	370.1	378.5	380.6	395.5	415.2	425.1	438.8	466.0
152.5°	383.3	376.9	370.4	376.9	383.3	384.9	398.3	416.1	425.1	436.7	460.0
155°	393.2	388.6	383.8	388.6	393.2	394.4	404.6	418.3	425.1	434.4	452.9
157.5°	402.9	398.2	393.6	398.2	402.9	404.0	411.0	420.4	425.1	432.3	446.7
160°	407.3	403.8	400.2	403.8	407.3	408.3	413.9	421.4	425.1	431.3	443.6
162.5°	412.3	409.6	406.9	409.6	412.3	413.0	417.0	422.4	425.1	430.3	440.7
165°	418.9	416.5	414.1	416.5	418.9	419.6	421.5	423.9	425.1	428.8	436.2
167.5°	423.0	421.8	420.7	421.8	423.0	423.3	424.9	427.0	428.0	430.4	435.3
170°	427.4	426.2	425.1	426.2	427.4	427.7	427.8	427.9	428.0	430.4	435.3
172.5°	427.9	427.7	427.4	427.7	427.9	428.0	428.0	428.0	428.0	429.9	433.7
175°	430.6	430.6	430.6	430.6	430.6	430.6	429.8	428.6	428.0	429.2	431.6
177.5°	430.6	430.6	430.6	430.6	430.6	430.6	430.0	429.0	428.6	429.5	431.5
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6



TEST NUMBER: P934341

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1430.1	1425.9	1431.5	1416.1	1431.5	1425.9	1430.1	1439.9	1431.5	1437.1	1442.7
5°	1254.8	1247.8	1225.4	1207.2	1225.4	1247.8	1254.8	1284.3	1298.3	1323.5	1357.2
7.5°	1121.6	1116.0	1110.4	1099.2	1110.4	1116.0	1121.6	1130.1	1144.1	1166.5	1191.8
10°	1092.2	1093.6	1102.0	1100.6	1102.0	1093.6	1092.2	1089.4	1085.2	1089.4	1104.8
12.5°	1167.9	1180.5	1226.8	1224.0	1226.8	1180.5	1167.9	1111.8	1074.0	1067.0	1069.8
15°	1254.8	1259.0	1268.9	1270.3	1268.9	1259.0	1254.8	1232.4	1118.8	1069.8	1054.3
17.5°	1263.3	1264.7	1271.7	1271.7	1271.7	1264.7	1263.3	1253.4	1215.6	1149.7	1062.8
20°	1256.2	1259.0	1273.1	1275.9	1273.1	1259.0	1256.2	1243.6	1222.6	1198.8	1132.9
22.5°	1253.4	1259.0	1270.3	1268.9	1270.3	1259.0	1253.4	1233.8	1215.6	1198.8	1172.1
25°	1239.4	1239.4	1240.8	1242.2	1240.8	1239.4	1239.4	1224.0	1187.5	1183.3	1167.9
27.5°	1210.0	1212.8	1221.2	1219.8	1221.2	1212.8	1210.0	1204.4	1165.1	1160.9	1149.7
30°	1183.3	1180.5	1173.5	1167.9	1173.5	1180.5	1183.3	1174.9	1135.7	1124.5	1127.3
32.5°	1138.5	1131.5	1124.5	1120.2	1124.5	1131.5	1138.5	1135.7	1106.2	1090.8	1093.6
35°	1085.2	1086.6	1085.2	1081.0	1085.2	1086.6	1085.2	1088.0	1069.8	1055.8	1054.3
37.5°	1047.3	1050.1	1048.7	1043.1	1048.7	1050.1	1047.3	1044.5	1019.3	1015.1	1017.9
40°	1008.1	1009.5	1008.1	1003.9	1008.1	1009.5	1008.1	1002.5	967.4	968.8	978.6
42.5°	970.2	968.8	964.6	961.8	964.6	968.8	970.2	961.8	916.9	912.7	931.0
45°	926.8	928.2	919.8	915.5	919.8	928.2	926.8	921.2	874.9	863.7	876.3
47.5°	883.3	883.3	876.3	872.1	876.3	883.3	883.3	876.3	827.2	816.0	823.0
50°	837.0	835.6	825.8	824.4	825.8	835.6	837.0	832.8	780.9	771.1	771.1
52.5°	783.8	783.8	785.2	788.0	785.2	783.8	783.8	785.2	738.9	729.1	726.3
55°	737.5	738.9	748.7	751.5	748.7	738.9	737.5	737.5	695.4	685.6	680.0
57.5°	689.8	689.8	696.8	696.8	696.8	689.8	689.8	687.0	646.3	637.9	635.1
60°	635.1	637.9	643.5	642.1	643.5	637.9	635.1	632.3	597.3	591.7	581.9
62.5°	577.6	580.5	581.9	579.1	581.9	580.5	577.6	569.2	548.2	544.0	531.4
65°	517.4	520.2	521.6	518.8	521.6	520.2	517.4	513.2	497.7	490.7	479.5
67.5°	455.7	454.3	452.9	458.5	452.9	454.3	455.7	450.1	440.2	434.6	419.2
70°	392.6	392.6	391.2	394.0	391.2	392.6	392.6	388.4	382.8	378.6	364.5
72.5°	325.3	323.9	329.5	325.3	329.5	323.9	325.3	323.9	321.1	316.9	302.8
75°	259.4	262.2	259.4	263.6	259.4	262.2	259.4	260.8	259.4	256.6	246.8
77.5°	197.7	200.5	197.7	197.7	197.7	200.5	197.7	199.1	199.1	199.1	190.7
80°	140.2	138.8	138.8	137.4	138.8	138.8	140.2	140.2	141.6	138.8	136.0
82.5°	89.7	88.3	88.3	91.1	88.3	88.3	89.7	91.1	88.3	88.3	88.3
85°	49.1	50.5	47.7	47.7	47.7	50.5	49.1	46.3	49.1	49.1	47.7
87.5°	18.2	16.8	16.8	16.8	16.8	16.8	18.2	19.6	19.6	19.6	21.0
90°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	14.6	19.5	22.0	18.9
92.5°	54.9	52.7	43.9	35.2	43.9	52.7	54.9	77.8	108.3	123.7	108.6
95°	186.4	179.7	153.3	126.8	153.3	179.7	186.4	244.8	322.7	361.5	305.4
97.5°	430.2	417.6	367.3	317.1	367.3	417.6	430.2	467.2	516.4	541.0	447.4
100°	604.3	589.3	529.3	469.3	529.3	589.3	604.3	601.6	597.9	596.2	492.2
102.5°	752.8	740.0	688.6	637.2	688.6	740.0	752.8	705.8	643.1	611.8	506.3
105°	926.2	919.3	891.7	864.0	891.7	919.3	926.2	820.8	680.3	610.0	507.9
107.5°	1016.3	1018.0	1024.6	1031.4	1024.6	1018.0	1016.3	869.3	673.3	575.3	485.3
110°	1039.5	1046.7	1075.4	1104.2	1075.4	1046.7	1039.5	875.2	656.0	546.4	465.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1024.7	1035.7	1080.0	1124.1	1080.0	1035.7	1024.7	856.6	632.3	520.2	447.8
115°	974.7	990.0	1051.3	1112.6	1051.3	990.0	974.7	812.7	596.7	488.7	427.7
117.5°	905.6	922.6	990.6	1058.6	990.6	922.6	905.6	759.4	564.5	467.0	415.2
120°	859.1	875.6	941.6	1007.7	941.6	875.6	859.1	725.5	547.4	458.3	410.9
122.5°	812.6	828.9	894.0	959.1	894.0	828.9	812.6	692.3	531.8	451.6	408.7
125°	751.0	766.0	826.0	886.0	826.0	766.0	751.0	648.9	512.6	444.5	406.9
127.5°	701.6	714.2	764.9	815.5	764.9	714.2	701.6	613.8	496.9	438.4	405.8
130°	670.5	682.1	728.9	775.6	728.9	682.1	670.5	592.3	488.1	436.0	406.4
132.5°	643.8	654.3	696.2	738.0	696.2	654.3	643.8	573.9	480.7	434.1	406.9
135°	606.3	615.3	651.4	687.5	651.4	615.3	606.3	547.7	469.7	430.6	406.5
137.5°	578.5	585.9	615.5	645.0	615.5	585.9	578.5	529.0	463.0	430.0	408.9
140°	556.2	563.2	590.7	618.4	590.7	563.2	556.2	513.5	456.5	428.0	409.4
142.5°	540.6	546.6	570.4	594.1	570.4	546.6	540.6	503.1	453.1	428.0	410.9
145°	517.3	521.8	539.8	557.7	539.8	521.8	517.3	486.5	445.6	425.1	410.9
147.5°	497.6	501.4	516.2	531.1	516.2	501.4	497.6	473.4	441.2	425.1	413.7
150°	486.3	489.3	501.5	513.5	501.5	489.3	486.3	466.0	438.8	425.1	415.2
152.5°	477.4	479.6	488.8	497.9	488.8	479.6	477.4	460.0	436.7	425.1	416.1
155°	466.7	468.2	474.3	480.3	474.3	468.2	466.7	452.9	434.4	425.1	418.3
157.5°	457.4	458.5	462.8	467.0	462.8	458.5	457.4	446.7	432.3	425.1	420.4
160°	452.9	453.4	455.9	458.3	455.9	453.4	452.9	443.6	431.3	425.1	421.4
162.5°	448.5	449.0	451.4	453.7	451.4	449.0	448.5	440.7	430.3	425.1	422.4
165°	441.8	442.5	444.9	447.4	444.9	442.5	441.8	436.2	428.8	425.1	423.9
167.5°	438.9	439.2	440.2	441.3	440.2	439.2	438.9	435.3	430.4	428.0	427.0
170°	438.9	438.9	438.9	438.9	438.9	438.9	438.9	435.3	430.4	428.0	427.9
172.5°	436.6	436.4	435.5	434.6	435.5	436.4	436.6	433.7	429.9	428.0	428.0
175°	433.4	433.4	433.4	433.4	433.4	433.4	433.4	431.6	429.2	428.0	428.6
177.5°	432.9	432.6	431.6	430.6	431.6	432.6	432.9	431.5	429.5	428.6	429.0
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1463.7	1470.8	1475.0	1480.6	1494.6
5°	1407.7	1434.3	1442.7	1463.7	1489.0
7.5°	1284.3	1365.6	1388.0	1438.5	1477.8
10°	1165.1	1246.4	1285.7	1404.9	1463.7
12.5°	1104.8	1152.5	1179.1	1346.0	1444.1
15°	1067.0	1100.6	1120.2	1267.5	1421.7
17.5°	1037.5	1061.4	1075.4	1190.3	1390.8
20°	1019.3	1030.5	1043.1	1134.3	1355.8
22.5°	1006.7	999.7	1009.5	1095.0	1308.1
25°	998.3	971.6	982.8	1064.2	1252.0
27.5°	1005.3	946.4	950.6	1036.1	1193.2
30°	1006.7	915.5	916.9	1006.7	1127.3
32.5°	996.9	883.3	884.7	970.2	1052.9
35°	973.0	845.4	844.0	928.2	952.0
37.5°	940.8	804.8	804.8	881.9	841.2
40°	901.5	764.1	768.3	821.6	743.1
42.5°	853.9	720.7	726.3	741.7	670.2
45°	802.0	678.6	682.8	626.7	614.1
47.5°	744.5	635.1	636.5	520.2	595.9
50°	675.8	590.3	584.7	445.9	594.5
52.5°	615.5	541.2	524.4	403.8	539.8
55°	556.6	489.3	452.9	371.5	500.5
57.5°	504.7	422.0	387.0	333.7	492.1
60°	457.1	356.1	329.5	293.0	451.5
62.5°	417.8	307.1	301.4	265.0	409.4
65°	375.8	273.4	272.0	241.2	347.7
67.5°	335.1	251.0	249.6	218.7	265.0
70°	291.6	227.1	224.3	194.9	196.3
72.5°	246.8	200.5	197.7	175.3	162.6
75°	201.9	169.6	168.2	152.8	131.8
77.5°	158.4	134.6	137.4	123.4	96.7
80°	113.6	98.1	100.9	88.3	72.9
82.5°	75.7	64.5	67.3	56.1	49.1
85°	42.1	36.5	37.9	29.4	22.4
87.5°	19.6	16.8	16.8	11.2	7.0
90°	12.7	8.1	7.6	5.2	2.9
92.5°	78.4	55.8	50.8	31.2	11.6
95°	192.9	108.6	99.6	63.7	27.8
97.5°	259.9	119.4	111.4	79.7	48.0
100°	284.2	128.3	121.1	92.3	63.6
102.5°	295.5	137.3	130.6	103.8	76.8
105°	303.7	150.6	144.9	122.2	99.5
107.5°	305.3	170.2	164.9	143.8	122.5
110°	302.9	181.1	176.4	157.2	138.1



TEST NUMBER: P934341

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	303.0	194.5	189.9	171.7	153.5
115°	305.8	214.4	210.2	193.4	176.6
117.5°	311.5	233.8	229.9	214.7	199.4
120°	316.1	245.1	241.4	227.0	212.6
122.5°	322.8	258.4	254.7	240.2	225.7
125°	331.7	275.4	272.1	258.8	245.6
127.5°	340.7	291.9	288.5	275.2	261.8
130°	347.2	302.8	299.3	284.9	270.5
132.5°	352.6	311.8	308.3	293.9	279.5
135°	358.4	322.2	318.9	305.8	292.7
137.5°	367.0	335.5	332.2	319.3	306.3
140°	372.3	344.4	341.4	329.6	317.6
142.5°	376.7	351.1	348.3	337.2	326.2
145°	382.6	361.3	358.8	349.2	339.6
147.5°	391.0	374.0	371.6	362.2	352.9
150°	395.5	380.6	378.5	370.1	361.5
152.5°	398.3	384.9	383.3	376.9	370.4
155°	404.6	394.4	393.2	388.6	383.8
157.5°	411.0	404.0	402.9	398.2	393.6
160°	413.9	408.3	407.3	403.8	400.2
162.5°	417.0	413.0	412.3	409.6	406.9
165°	421.5	419.6	418.9	416.5	414.1
167.5°	424.9	423.3	423.0	421.8	420.7
170°	427.8	427.7	427.4	426.2	425.1
172.5°	428.0	428.0	427.9	427.7	427.4
175°	429.8	430.6	430.6	430.6	430.6
177.5°	430.0	430.6	430.6	430.6	430.6
180°	430.6	430.6	430.6	430.6	430.6



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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	13.20	14.14	14.09	15.05	16.20	16.03	16.96	16.91	17.87	19.02
	3H	13.69	14.53	14.58	15.44	16.62	17.38	18.22	18.27	19.13	20.31
	4H	13.88	14.67	14.79	15.60	16.78	17.82	18.62	18.74	19.54	20.73
	6H	14.00	14.74	14.93	15.66	16.86	18.11	18.84	19.04	19.77	20.97
	8H	14.01	14.70	14.94	15.65	16.85	18.19	18.88	19.12	19.83	21.03
	12H	13.98	14.64	14.92	15.58	16.81	18.23	18.89	19.17	19.83	21.05
4H	2H	14.24	15.04	15.16	15.96	17.15	16.45	17.24	17.36	18.16	19.35
	3H	15.28	15.94	16.21	16.89	18.09	17.96	18.62	18.89	19.57	20.77
	4H	15.56	16.16	16.50	17.11	18.34	18.49	19.09	19.43	20.04	21.27
	6H	15.69	16.21	16.64	17.18	18.41	18.86	19.38	19.81	20.35	21.57
	8H	15.69	16.18	16.65	17.14	18.39	18.96	19.45	19.92	20.41	21.66
	12H	15.66	16.10	16.64	17.09	18.33	19.02	19.46	20.00	20.44	21.69
8H	4H	16.02	16.50	16.97	17.47	18.71	18.62	19.10	19.57	20.07	21.31
	6H	16.28	16.68	17.26	17.69	18.93	19.06	19.46	20.04	20.46	21.71
	8H	16.32	16.68	17.31	17.67	18.93	19.21	19.56	20.20	20.56	21.82
	12H	16.31	16.62	17.31	17.61	18.92	19.31	19.62	20.30	20.61	21.92
12H	4H	16.03	16.46	17.00	17.45	18.69	18.59	19.02	19.56	20.01	21.25
	6H	16.34	16.70	17.33	17.69	18.95	19.05	19.41	20.04	20.40	21.66
	8H	16.41	16.72	17.41	17.71	19.02	19.22	19.53	20.21	20.52	21.83