

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: P933941

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933941
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

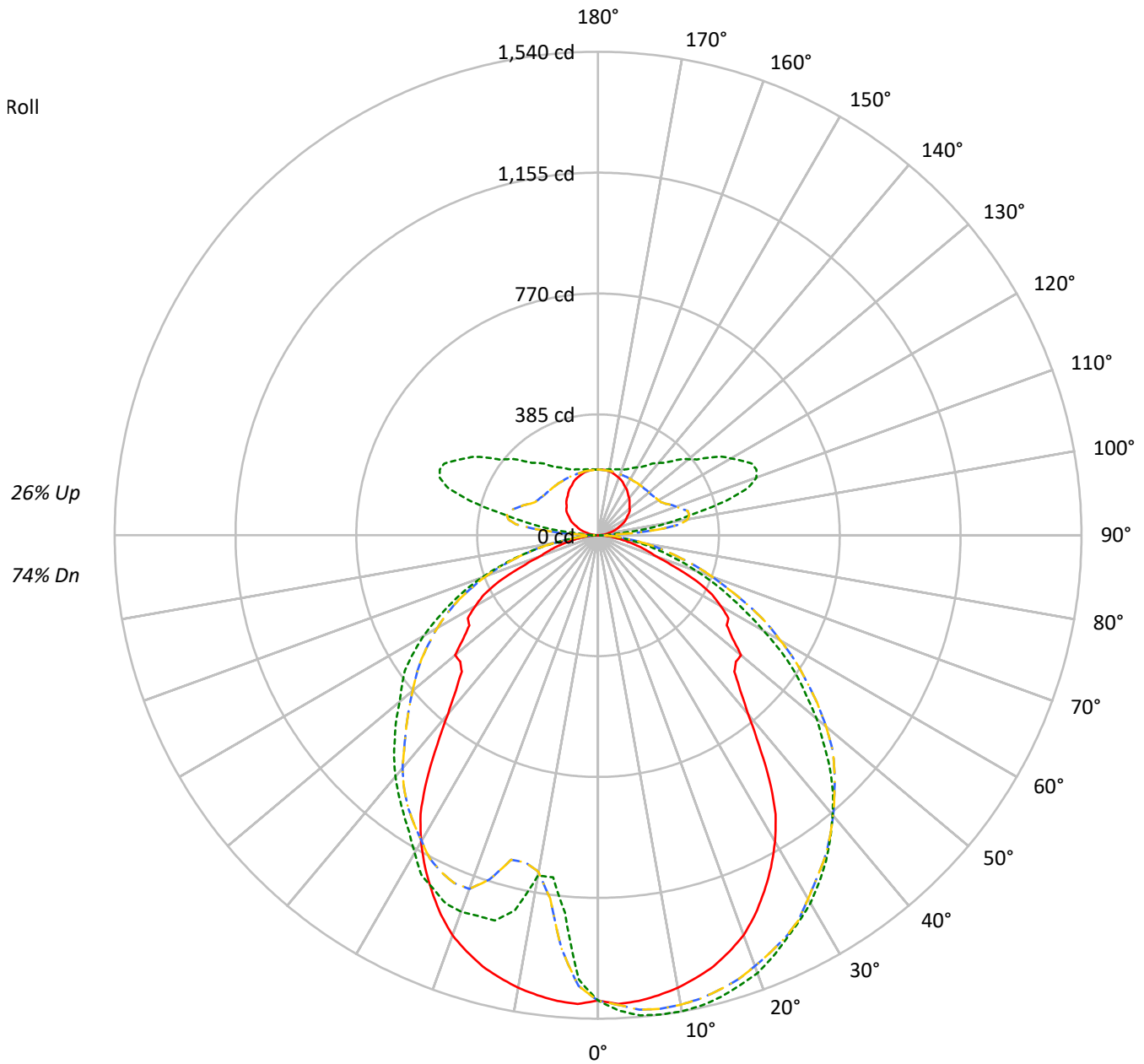
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5199.7 lumens
Efficiency: N/A
Efficacy: 115.5 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: Semi-Direct

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

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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	2.6
10°-20°	379.8	7.3
20°-30°	587.1	11.3
30°-40°	700.9	13.5
40°-50°	705.0	13.6
50°-60°	613.5	11.8
60°-70°	435.0	8.4
70°-80°	230.1	4.4
80°-90°	58.1	1.1
90°-100°	102.0	2.0
100°-110°	268.1	5.2
110°-120°	278.0	5.3
120°-130°	223.0	4.3
130°-140°	175.0	3.4
140°-150°	134.3	2.6
150°-160°	96.7	1.9
160°-170°	59.2	1.1
170°-180°	20.0	0.4
0°-30°	1100.7	21.2
0°-40°	1801.6	34.6
0°-60°	3120.1	60.0
0°-90°	3843.3	73.9
90°-120°	648.1	12.5
90°-150°	1180.5	22.7
90°-180°	1356.0	26.1
0°-180°	5199.7	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°	1	5	1	5	1	2
95°	14	62	14	62	14	15
105°	48	420	48	420	48	51
115°	86	541	86	541	86	85
125°	119	430	119	430	119	106
135°	142	334	142	334	142	110
145°	165	271	165	271	165	103
155°	186	233	186	233	186	86
165°	201	217	201	217	201	57
175°	209	211	209	211	209	20
180°	209	209	209	209	209	



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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°	1.4	2.5	3.6	3.9	6.2	9.2	10.7	9.4	7.1	5.3	5.3
92.5°	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.8	26.6	25.6
95°	13.5	30.9	48.4	52.8	93.8	148.3	175.6	156.8	118.9	90.6	87.4
97.5°	23.3	38.7	54.1	58.0	126.3	217.3	262.8	250.9	227.0	209.1	203.0
100°	30.9	44.9	58.9	62.3	138.1	239.2	289.7	290.5	292.3	293.6	286.3
102.5°	37.4	50.5	63.5	66.7	143.6	246.0	297.2	312.5	342.9	365.8	359.6
105°	48.3	59.4	70.4	73.2	147.6	246.8	296.4	330.5	398.8	450.1	446.7
107.5°	59.5	69.8	80.1	82.7	148.3	235.8	279.6	327.2	422.5	493.9	494.7
110°	67.1	76.5	85.7	88.0	147.2	226.1	265.5	318.8	425.3	505.1	508.6



TEST NUMBER: P933941

CATALOG NUMBER: SQ4-FA-025U-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°	74.6	83.5	92.3	94.5	147.2	217.6	252.7	307.2	416.2	497.9	503.2
115°	85.8	94.0	102.2	104.2	148.6	207.8	237.4	289.9	394.9	473.6	481.1
117.5°	96.9	104.3	111.7	113.6	151.3	201.7	226.9	274.3	369.0	440.1	448.3
120°	103.4	110.4	117.3	119.1	153.7	199.7	222.7	266.0	352.6	417.5	425.6
122.5°	109.6	116.7	123.8	125.5	156.8	198.6	219.5	258.4	336.4	394.9	402.9
125°	119.4	125.8	132.3	133.8	161.2	197.8	216.0	249.1	315.4	365.0	372.3
127.5°	127.2	133.7	140.2	141.8	165.5	197.2	213.0	241.4	298.4	341.0	347.1
130°	131.4	138.4	145.3	147.1	168.7	197.5	211.9	237.2	287.8	325.7	331.4
132.5°	135.8	142.8	149.7	151.5	171.3	197.8	211.0	233.6	278.9	312.8	317.9
135°	142.3	148.6	155.0	156.6	174.1	197.6	209.3	228.3	266.2	294.6	299.0
137.5°	148.9	155.2	161.4	163.0	178.3	198.8	209.0	225.1	257.1	281.2	284.7
140°	154.3	160.1	165.9	167.4	181.0	199.0	208.0	221.8	249.6	270.3	273.7
142.5°	158.5	163.9	169.3	170.6	183.0	199.7	208.0	220.1	244.5	262.7	265.6
145°	165.0	169.6	174.3	175.5	185.9	199.7	206.6	216.5	236.4	251.3	253.5
147.5°	171.4	176.0	180.6	181.7	190.0	201.1	206.6	214.4	230.0	241.8	243.6
150°	175.6	179.7	184.0	185.0	192.2	201.8	206.6	213.2	226.4	236.3	237.8
152.5°	180.0	183.1	186.3	187.0	193.6	202.3	206.6	212.2	223.5	232.0	233.1
155°	186.5	188.8	191.1	191.7	196.7	203.3	206.6	211.1	220.0	226.8	227.5
157.5°	191.2	193.5	195.7	196.3	199.7	204.3	206.6	210.0	217.0	222.3	222.8
160°	194.5	196.3	198.0	198.4	201.1	204.8	206.6	209.6	215.5	220.0	220.3
162.5°	197.7	199.0	200.3	200.7	202.6	205.3	206.6	209.1	214.1	218.0	218.3
165°	201.2	202.4	203.6	203.9	204.8	206.0	206.6	208.3	212.0	214.7	215.0
167.5°	204.4	205.0	205.5	205.7	206.5	207.5	208.0	209.2	211.5	213.3	213.4
170°	206.6	207.1	207.7	207.8	207.9	208.0	208.0	209.2	211.5	213.3	213.3
172.5°	207.7	207.8	208.0	208.0	208.0	208.0	208.0	208.9	210.8	212.2	212.1
175°	209.3	209.3	209.3	209.3	208.8	208.3	208.0	208.5	209.7	210.7	210.7
177.5°	209.3	209.3	209.3	209.3	208.9	208.4	208.3	208.7	209.7	210.4	210.3
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



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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°	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.7	9.2	6.2	3.9
92.5°	21.3	17.1	21.3	25.6	26.6	37.8	52.6	60.1	52.8	38.1	27.1
95°	74.5	61.7	74.5	87.4	90.6	118.9	156.8	175.6	148.3	93.8	52.8
97.5°	178.5	154.0	178.5	203.0	209.1	227.0	250.9	262.8	217.3	126.3	58.0
100°	257.2	228.1	257.2	286.3	293.6	292.3	290.5	289.7	239.2	138.1	62.3
102.5°	334.6	309.7	334.6	359.6	365.8	342.9	312.5	297.2	246.0	143.6	66.7
105°	433.3	419.9	433.3	446.7	450.1	398.8	330.5	296.4	246.8	147.6	73.2
107.5°	497.9	501.2	497.9	494.7	493.9	422.5	327.2	279.6	235.8	148.3	82.7
110°	522.6	536.6	522.6	508.6	505.1	425.3	318.8	265.5	226.1	147.2	88.0



TEST NUMBER: P933941

CATALOG NUMBER: SQ4-FA-025U-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°	524.7	546.2	524.7	503.2	497.9	416.2	307.2	252.7	217.6	147.2	94.5
115°	510.8	540.6	510.8	481.1	473.6	394.9	289.9	237.4	207.8	148.6	104.2
117.5°	481.4	514.4	481.4	448.3	440.1	369.0	274.3	226.9	201.7	151.3	113.6
120°	457.6	489.7	457.6	425.6	417.5	352.6	266.0	222.7	199.7	153.7	119.1
122.5°	434.5	466.0	434.5	402.9	394.9	336.4	258.4	219.5	198.6	156.8	125.5
125°	401.4	430.5	401.4	372.3	365.0	315.4	249.1	216.0	197.8	161.2	133.8
127.5°	371.7	396.3	371.7	347.1	341.0	298.4	241.4	213.0	197.2	165.5	141.8
130°	354.2	376.9	354.2	331.4	325.7	287.8	237.2	211.9	197.5	168.7	147.1
132.5°	338.3	358.6	338.3	317.9	312.8	278.9	233.6	211.0	197.8	171.3	151.5
135°	316.5	334.1	316.5	299.0	294.6	266.2	228.3	209.3	197.6	174.1	156.6
137.5°	299.1	313.4	299.1	284.7	281.2	257.1	225.1	209.0	198.8	178.3	163.0
140°	287.0	300.5	287.0	273.7	270.3	249.6	221.8	208.0	199.0	181.0	167.4
142.5°	277.1	288.7	277.1	265.6	262.7	244.5	220.1	208.0	199.7	183.0	170.6
145°	262.3	271.1	262.3	253.5	251.3	236.4	216.5	206.6	199.7	185.9	175.5
147.5°	250.9	258.1	250.9	243.6	241.8	230.0	214.4	206.6	201.1	190.0	181.7
150°	243.7	249.6	243.7	237.8	236.3	226.4	213.2	206.6	201.8	192.2	185.0
152.5°	237.5	242.0	237.5	233.1	232.0	223.5	212.2	206.6	202.3	193.6	187.0
155°	230.4	233.4	230.4	227.5	226.8	220.0	211.1	206.6	203.3	196.7	191.7
157.5°	224.9	226.9	224.9	222.8	222.3	217.0	210.0	206.6	204.3	199.7	196.3
160°	221.5	222.7	221.5	220.3	220.0	215.5	209.6	206.6	204.8	201.1	198.4
162.5°	219.4	220.5	219.4	218.3	218.0	214.1	209.1	206.6	205.3	202.6	200.7
165°	216.2	217.4	216.2	215.0	214.7	212.0	208.3	206.6	206.0	204.8	203.9
167.5°	214.0	214.4	214.0	213.4	213.3	211.5	209.2	208.0	207.5	206.5	205.7
170°	213.3	213.3	213.3	213.3	213.3	211.5	209.2	208.0	208.0	207.9	207.8
172.5°	211.6	211.2	211.6	212.1	212.2	210.8	208.9	208.0	208.0	208.0	208.0
175°	210.7	210.7	210.7	210.7	210.7	209.7	208.5	208.0	208.3	208.8	209.3
177.5°	209.7	209.3	209.7	210.3	210.4	209.7	208.7	208.3	208.4	208.9	209.3
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



TEST NUMBER: P933941

CATALOG NUMBER: SQ4-FA-025U-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°	3.6	2.5	1.4	2.5	3.6	3.9	6.2	9.2	10.7	9.4	7.1
92.5°	24.7	15.1	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.8
95°	48.4	30.9	13.5	30.9	48.4	52.8	93.8	148.3	175.6	156.8	118.9
97.5°	54.1	38.7	23.3	38.7	54.1	58.0	126.3	217.3	262.8	250.9	227.0
100°	58.9	44.9	30.9	44.9	58.9	62.3	138.1	239.2	289.7	290.5	292.3
102.5°	63.5	50.5	37.4	50.5	63.5	66.7	143.6	246.0	297.2	312.5	342.9
105°	70.4	59.4	48.3	59.4	70.4	73.2	147.6	246.8	296.4	330.5	398.8
107.5°	80.1	69.8	59.5	69.8	80.1	82.7	148.3	235.8	279.6	327.2	422.5
110°	85.7	76.5	67.1	76.5	85.7	88.0	147.2	226.1	265.5	318.8	425.3



TEST NUMBER: P933941

CATALOG NUMBER: SQ4-FA-025U-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°	92.3	83.5	74.6	83.5	92.3	94.5	147.2	217.6	252.7	307.2	416.2
115°	102.2	94.0	85.8	94.0	102.2	104.2	148.6	207.8	237.4	289.9	394.9
117.5°	111.7	104.3	96.9	104.3	111.7	113.6	151.3	201.7	226.9	274.3	369.0
120°	117.3	110.4	103.4	110.4	117.3	119.1	153.7	199.7	222.7	266.0	352.6
122.5°	123.8	116.7	109.6	116.7	123.8	125.5	156.8	198.6	219.5	258.4	336.4
125°	132.3	125.8	119.4	125.8	132.3	133.8	161.2	197.8	216.0	249.1	315.4
127.5°	140.2	133.7	127.2	133.7	140.2	141.8	165.5	197.2	213.0	241.4	298.4
130°	145.3	138.4	131.4	138.4	145.3	147.1	168.7	197.5	211.9	237.2	287.8
132.5°	149.7	142.8	135.8	142.8	149.7	151.5	171.3	197.8	211.0	233.6	278.9
135°	155.0	148.6	142.3	148.6	155.0	156.6	174.1	197.6	209.3	228.3	266.2
137.5°	161.4	155.2	148.9	155.2	161.4	163.0	178.3	198.8	209.0	225.1	257.1
140°	165.9	160.1	154.3	160.1	165.9	167.4	181.0	199.0	208.0	221.8	249.6
142.5°	169.3	163.9	158.5	163.9	169.3	170.6	183.0	199.7	208.0	220.1	244.5
145°	174.3	169.6	165.0	169.6	174.3	175.5	185.9	199.7	206.6	216.5	236.4
147.5°	180.6	176.0	171.4	176.0	180.6	181.7	190.0	201.1	206.6	214.4	230.0
150°	184.0	179.7	175.6	179.7	184.0	185.0	192.2	201.8	206.6	213.2	226.4
152.5°	186.3	183.1	180.0	183.1	186.3	187.0	193.6	202.3	206.6	212.2	223.5
155°	191.1	188.8	186.5	188.8	191.1	191.7	196.7	203.3	206.6	211.1	220.0
157.5°	195.7	193.5	191.2	193.5	195.7	196.3	199.7	204.3	206.6	210.0	217.0
160°	198.0	196.3	194.5	196.3	198.0	198.4	201.1	204.8	206.6	209.6	215.5
162.5°	200.3	199.0	197.7	199.0	200.3	200.7	202.6	205.3	206.6	209.1	214.1
165°	203.6	202.4	201.2	202.4	203.6	203.9	204.8	206.0	206.6	208.3	212.0
167.5°	205.5	205.0	204.4	205.0	205.5	205.7	206.5	207.5	208.0	209.2	211.5
170°	207.7	207.1	206.6	207.1	207.7	207.8	207.9	208.0	208.0	209.2	211.5
172.5°	208.0	207.8	207.7	207.8	208.0	208.0	208.0	208.0	208.0	208.9	210.8
175°	209.3	209.3	209.3	209.3	209.3	209.3	208.8	208.3	208.0	208.5	209.7
177.5°	209.3	209.3	209.3	209.3	209.3	209.3	208.9	208.4	208.3	208.7	209.7
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



TEST NUMBER: P933941

CATALOG NUMBER: SQ4-FA-025U-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°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.7	9.2
92.5°	26.6	25.6	21.3	17.1	21.3	25.6	26.6	37.8	52.6	60.1	52.8
95°	90.6	87.4	74.5	61.7	74.5	87.4	90.6	118.9	156.8	175.6	148.3
97.5°	209.1	203.0	178.5	154.0	178.5	203.0	209.1	227.0	250.9	262.8	217.3
100°	293.6	286.3	257.2	228.1	257.2	286.3	293.6	292.3	290.5	289.7	239.2
102.5°	365.8	359.6	334.6	309.7	334.6	359.6	365.8	342.9	312.5	297.2	246.0
105°	450.1	446.7	433.3	419.9	433.3	446.7	450.1	398.8	330.5	296.4	246.8
107.5°	493.9	494.7	497.9	501.2	497.9	494.7	493.9	422.5	327.2	279.6	235.8
110°	505.1	508.6	522.6	536.6	522.6	508.6	505.1	425.3	318.8	265.5	226.1



TEST NUMBER: P933941

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	497.9	503.2	524.7	546.2	524.7	503.2	497.9	416.2	307.2	252.7	217.6
115°	473.6	481.1	510.8	540.6	510.8	481.1	473.6	394.9	289.9	237.4	207.8
117.5°	440.1	448.3	481.4	514.4	481.4	448.3	440.1	369.0	274.3	226.9	201.7
120°	417.5	425.6	457.6	489.7	457.6	425.6	417.5	352.6	266.0	222.7	199.7
122.5°	394.9	402.9	434.5	466.0	434.5	402.9	394.9	336.4	258.4	219.5	198.6
125°	365.0	372.3	401.4	430.5	401.4	372.3	365.0	315.4	249.1	216.0	197.8
127.5°	341.0	347.1	371.7	396.3	371.7	347.1	341.0	298.4	241.4	213.0	197.2
130°	325.7	331.4	354.2	376.9	354.2	331.4	325.7	287.8	237.2	211.9	197.5
132.5°	312.8	317.9	338.3	358.6	338.3	317.9	312.8	278.9	233.6	211.0	197.8
135°	294.6	299.0	316.5	334.1	316.5	299.0	294.6	266.2	228.3	209.3	197.6
137.5°	281.2	284.7	299.1	313.4	299.1	284.7	281.2	257.1	225.1	209.0	198.8
140°	270.3	273.7	287.0	300.5	287.0	273.7	270.3	249.6	221.8	208.0	199.0
142.5°	262.7	265.6	277.1	288.7	277.1	265.6	262.7	244.5	220.1	208.0	199.7
145°	251.3	253.5	262.3	271.1	262.3	253.5	251.3	236.4	216.5	206.6	199.7
147.5°	241.8	243.6	250.9	258.1	250.9	243.6	241.8	230.0	214.4	206.6	201.1
150°	236.3	237.8	243.7	249.6	243.7	237.8	236.3	226.4	213.2	206.6	201.8
152.5°	232.0	233.1	237.5	242.0	237.5	233.1	232.0	223.5	212.2	206.6	202.3
155°	226.8	227.5	230.4	233.4	230.4	227.5	226.8	220.0	211.1	206.6	203.3
157.5°	222.3	222.8	224.9	226.9	224.9	222.8	222.3	217.0	210.0	206.6	204.3
160°	220.0	220.3	221.5	222.7	221.5	220.3	220.0	215.5	209.6	206.6	204.8
162.5°	218.0	218.3	219.4	220.5	219.4	218.3	218.0	214.1	209.1	206.6	205.3
165°	214.7	215.0	216.2	217.4	216.2	215.0	214.7	212.0	208.3	206.6	206.0
167.5°	213.3	213.4	214.0	214.4	214.0	213.4	213.3	211.5	209.2	208.0	207.5
170°	213.3	213.3	213.3	213.3	213.3	213.3	213.3	211.5	209.2	208.0	208.0
172.5°	212.2	212.1	211.6	211.2	211.6	212.1	212.2	210.8	208.9	208.0	208.0
175°	210.7	210.7	210.7	210.7	210.7	210.7	210.7	209.7	208.5	208.0	208.3
177.5°	210.4	210.3	209.7	209.3	209.7	210.3	210.4	209.7	208.7	208.3	208.4
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



TEST NUMBER: P933941

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-5000K

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°	6.2	3.9	3.6	2.5	1.4
92.5°	38.1	27.1	24.7	15.1	5.6
95°	93.8	52.8	48.4	30.9	13.5
97.5°	126.3	58.0	54.1	38.7	23.3
100°	138.1	62.3	58.9	44.9	30.9
102.5°	143.6	66.7	63.5	50.5	37.4
105°	147.6	73.2	70.4	59.4	48.3
107.5°	148.3	82.7	80.1	69.8	59.5
110°	147.2	88.0	85.7	76.5	67.1



TEST NUMBER: P933941

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	147.2	94.5	92.3	83.5	74.6
115°	148.6	104.2	102.2	94.0	85.8
117.5°	151.3	113.6	111.7	104.3	96.9
120°	153.7	119.1	117.3	110.4	103.4
122.5°	156.8	125.5	123.8	116.7	109.6
125°	161.2	133.8	132.3	125.8	119.4
127.5°	165.5	141.8	140.2	133.7	127.2
130°	168.7	147.1	145.3	138.4	131.4
132.5°	171.3	151.5	149.7	142.8	135.8
135°	174.1	156.6	155.0	148.6	142.3
137.5°	178.3	163.0	161.4	155.2	148.9
140°	181.0	167.4	165.9	160.1	154.3
142.5°	183.0	170.6	169.3	163.9	158.5
145°	185.9	175.5	174.3	169.6	165.0
147.5°	190.0	181.7	180.6	176.0	171.4
150°	192.2	185.0	184.0	179.7	175.6
152.5°	193.6	187.0	186.3	183.1	180.0
155°	196.7	191.7	191.1	188.8	186.5
157.5°	199.7	196.3	195.7	193.5	191.2
160°	201.1	198.4	198.0	196.3	194.5
162.5°	202.6	200.7	200.3	199.0	197.7
165°	204.8	203.9	203.6	202.4	201.2
167.5°	206.5	205.7	205.5	205.0	204.4
170°	207.9	207.8	207.7	207.1	206.6
172.5°	208.0	208.0	208.0	207.8	207.7
175°	208.8	209.3	209.3	209.3	209.3
177.5°	208.9	209.3	209.3	209.3	209.3
180°	209.3	209.3	209.3	209.3	209.3



TEST NUMBER: P933941

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-5000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.47	15.59	15.19	16.33	17.22	17.29	18.42	18.01	19.16	20.04
	3H	14.96	15.98	15.70	16.73	17.64	18.65	19.67	19.39	20.42	21.33
	4H	15.17	16.12	15.92	16.88	17.81	19.11	20.06	19.86	20.82	21.75
	6H	15.30	16.18	16.06	16.95	17.89	19.41	20.29	20.17	21.06	22.00
	8H	15.31	16.15	16.08	16.94	17.88	19.49	20.33	20.26	21.12	22.06
	12H	15.29	16.09	16.07	16.87	17.84	19.53	20.33	20.32	21.12	22.09
4H	2H	15.53	16.48	16.29	17.24	18.17	17.73	18.69	18.49	19.45	20.37
	3H	16.58	17.38	17.35	18.17	19.12	19.26	20.06	20.03	20.85	21.80
	4H	16.87	17.59	17.65	18.39	19.36	19.80	20.52	20.58	21.32	22.29
	6H	17.01	17.63	17.81	18.45	19.43	20.18	20.80	20.98	21.62	22.60
	8H	17.02	17.60	17.83	18.42	19.41	20.29	20.87	21.09	21.69	22.68
	12H	17.00	17.53	17.83	18.36	19.36	20.36	20.88	21.18	21.72	22.72
8H	4H	17.34	17.93	18.15	18.74	19.74	19.94	20.53	20.75	21.35	22.34
	6H	17.61	18.10	18.45	18.96	19.95	20.39	20.87	21.22	21.73	22.73
	8H	17.66	18.09	18.51	18.95	19.95	20.54	20.97	21.39	21.83	22.84
	12H	17.66	18.03	18.50	18.88	19.95	20.65	21.03	21.50	21.88	22.94
12H	4H	17.36	17.89	18.19	18.73	19.72	19.92	20.45	20.75	21.29	22.28
	6H	17.68	18.11	18.52	18.96	19.97	20.39	20.82	21.23	21.68	22.69
	8H	17.76	18.14	18.60	18.98	20.05	20.56	20.94	21.41	21.79	22.85