

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: P933940

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933940
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-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

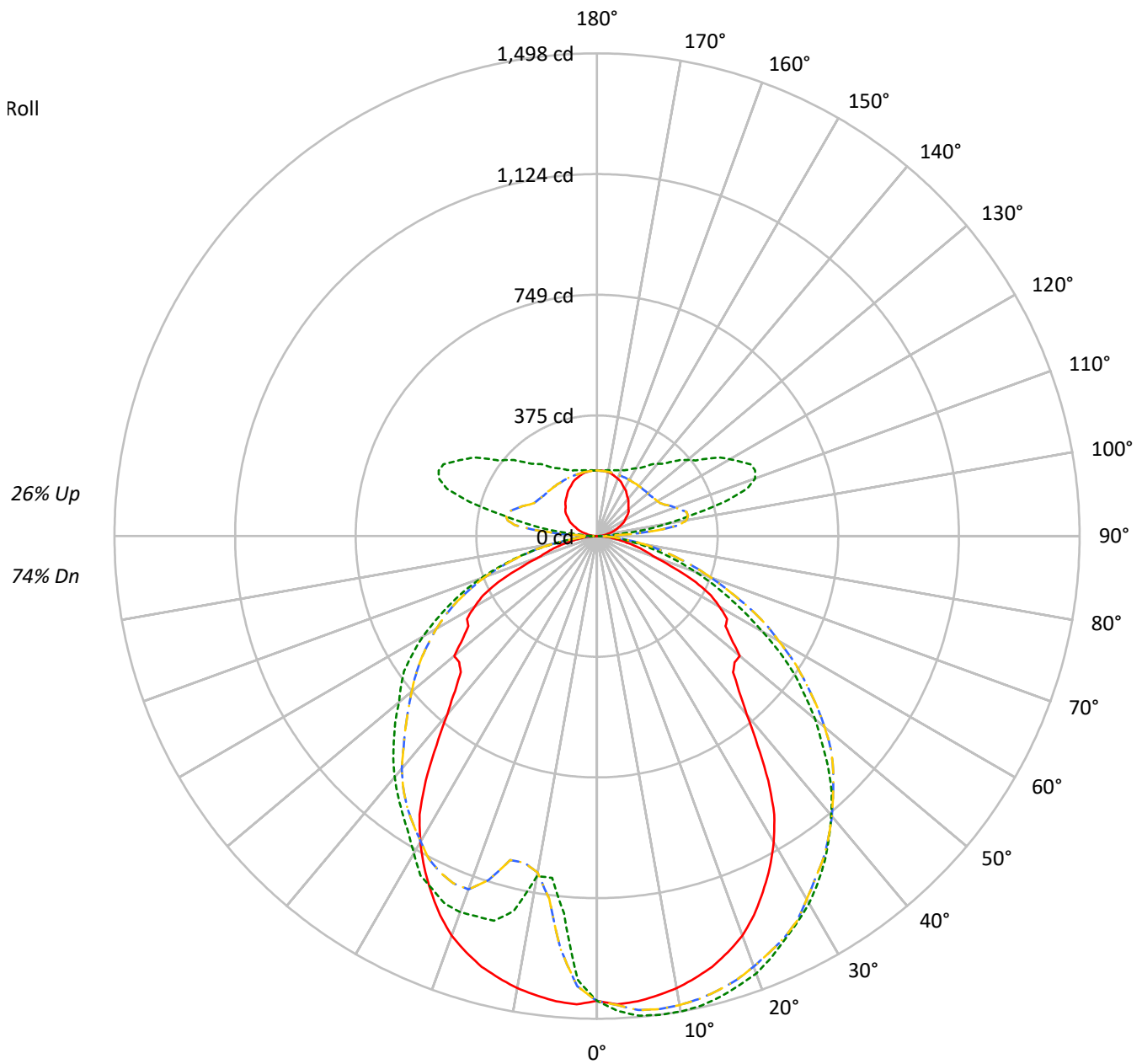
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5060.2 lumens
Efficiency: N/A
Efficacy: 112.4 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: 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	0	
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°	8922	8922	8922	8922
5°	8986	9006	8986	7082
10°	8922	8872	8922	6343
15°	8822	8679	8822	7247
20°	8633	8452	8633	7263
25°	8253	8119	8253	7109
30°	7761	7844	7761	6771
35°	6916	7495	6916	6399
40°	5760	7084	5760	6119
45°	5142	6604	5142	5796
50°	5459	6031	5459	5472
55°	5131	5413	5131	5285
60°	5284	4597	5284	4840
65°	4782	3800	4782	4248
70°	3303	3029	3303	3561
75°	2887	2239	2887	2681
80°	2311	1480	2311	1612
85°	1300	784	1300	666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7887 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	2.6
10°-20°	369.6	7.3
20°-30°	571.4	11.3
30°-40°	682.1	13.5
40°-50°	686.1	13.6
50°-60°	597.0	11.8
60°-70°	423.3	8.4
70°-80°	223.9	4.4
80°-90°	56.6	1.1
90°-100°	99.2	2.0
100°-110°	260.9	5.2
110°-120°	270.6	5.3
120°-130°	217.0	4.3
130°-140°	170.3	3.4
140°-150°	130.7	2.6
150°-160°	94.1	1.9
160°-170°	57.6	1.1
170°-180°	19.5	0.4
0°-30°	1071.2	21.2
0°-40°	1753.3	34.6
0°-60°	3036.4	60.0
0°-90°	3740.2	73.9
90°-120°	630.8	12.5
90°-150°	1148.8	22.7
90°-180°	1320.0	26.1
0°-180°	5060.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1442	1442	1442	1442	1442	
5°	1449	1494	1449	1175	1449	137
15°	1384	1480	1384	1236	1384	389
25°	1218	1381	1218	1209	1218	559
35°	926	1232	926	1052	926	573
45°	598	1015	598	891	598	479
55°	487	749	487	731	487	448
65°	338	452	338	505	338	323
75°	128	214	128	256	128	135
85°	22	55	22	46	22	29
90°	1	5	1	5	1	2
95°	13	60	13	60	13	15
105°	47	409	47	409	47	50
115°	84	526	84	526	84	82
125°	116	419	116	419	116	103
135°	138	325	138	325	138	107
145°	161	264	161	264	161	101
155°	182	227	182	227	182	83
165°	196	212	196	212	196	55
175°	204	205	204	205	204	19
180°	204	204	204	204	204	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1454.5	1454.5	1462.7	1465.4	1465.4	1461.3	1457.2	1461.3	1473.6	1477.7	1476.3
5°	1449.1	1460.0	1475.0	1477.7	1480.4	1479.1	1476.3	1479.1	1492.7	1495.4	1496.8
7.5°	1438.1	1458.6	1477.7	1481.8	1485.9	1481.8	1480.4	1483.2	1496.8	1499.5	1499.5
10°	1424.5	1453.1	1475.0	1477.7	1481.8	1477.7	1477.7	1483.2	1496.8	1499.5	1500.9
12.5°	1405.4	1445.0	1465.4	1468.2	1473.6	1472.2	1470.9	1476.3	1490.0	1492.7	1492.7
15°	1383.6	1429.9	1449.1	1451.8	1461.3	1458.6	1458.6	1464.1	1479.1	1483.2	1481.8
17.5°	1353.5	1410.8	1432.7	1436.8	1443.6	1442.2	1443.6	1449.1	1462.7	1465.4	1466.8
20°	1319.4	1384.9	1410.8	1414.9	1421.8	1421.8	1421.8	1428.6	1442.2	1447.7	1447.7
22.5°	1273.0	1357.6	1384.9	1387.7	1395.8	1395.8	1398.6	1408.1	1420.4	1421.8	1421.8
25°	1218.5	1327.6	1350.8	1359.0	1367.2	1371.3	1375.4	1380.8	1384.9	1383.6	1384.9
27.5°	1161.2	1289.4	1319.4	1324.9	1335.8	1339.9	1345.4	1346.7	1348.1	1352.2	1349.4
30°	1097.0	1236.2	1281.2	1286.7	1304.4	1307.1	1301.7	1304.4	1311.2	1314.0	1316.7
32.5°	1024.7	1157.1	1241.7	1253.9	1270.3	1262.1	1260.8	1264.9	1275.8	1275.8	1278.5
35°	926.5	1095.7	1204.8	1215.7	1228.0	1218.5	1223.9	1225.3	1232.1	1236.2	1234.8
37.5°	818.7	1042.4	1166.6	1174.8	1184.3	1172.1	1180.3	1184.3	1189.8	1187.1	1187.1
40°	723.2	959.2	1121.6	1127.0	1135.2	1125.7	1133.9	1136.6	1139.3	1136.6	1135.2
42.5°	652.2	867.8	1073.8	1080.6	1075.2	1082.0	1084.7	1090.2	1086.1	1080.6	1080.6
45°	597.6	843.2	1022.0	1030.2	1022.0	1032.9	1037.0	1037.0	1024.7	1022.0	1020.6
47.5°	579.9	794.1	970.1	970.1	966.0	979.7	986.5	977.0	964.7	960.6	960.6
50°	578.5	739.5	899.2	893.7	912.8	929.2	922.4	912.8	903.3	888.3	888.3
52.5°	525.3	672.7	807.8	828.2	858.2	867.8	856.9	847.3	831.0	824.1	818.7
55°	487.1	603.1	724.5	765.5	796.8	809.1	788.7	779.1	754.5	750.5	747.7
57.5°	478.9	502.1	648.1	700.0	738.2	736.8	724.5	706.8	686.3	682.2	680.9
60°	439.4	362.9	566.2	627.6	667.2	663.1	652.2	635.8	616.7	614.0	611.3
62.5°	398.4	263.3	473.5	543.1	599.0	597.6	588.1	563.5	549.9	543.1	537.6
65°	338.4	221.0	337.0	451.6	532.1	534.9	514.4	496.7	481.7	473.5	472.1
67.5°	257.9	180.1	227.9	376.6	468.0	465.3	439.4	431.2	412.1	408.0	399.8
70°	191.0	120.1	158.3	305.6	405.2	398.4	378.0	368.4	350.7	341.1	335.7
72.5°	158.3	96.9	116.0	237.4	341.1	332.9	315.2	304.3	289.3	281.1	275.6
75°	128.3	102.3	88.7	176.0	277.0	271.5	255.2	244.2	232.0	221.0	222.4
77.5°	94.1	95.5	71.0	129.6	219.7	211.5	201.9	188.3	182.8	171.9	171.9
80°	71.0	75.0	53.2	88.7	158.3	158.3	150.1	140.5	131.0	125.5	125.5
82.5°	47.8	47.8	39.6	55.9	107.8	103.7	98.2	95.5	90.1	87.3	87.3
85°	21.8	27.3	24.6	34.1	58.7	61.4	61.4	58.7	57.3	54.6	55.9
87.5°	6.8	12.3	15.0	19.1	30.0	31.4	32.7	32.7	32.7	34.1	34.1
90°	1.4	2.5	3.5	3.8	6.0	8.9	10.4	9.2	6.9	5.2	5.2
92.5°	5.5	14.7	24.0	26.4	37.1	51.4	58.5	51.2	36.7	25.9	24.9
95°	13.1	30.1	47.1	51.4	91.2	144.4	170.9	152.5	115.7	88.1	85.1
97.5°	22.6	37.7	52.7	56.4	122.9	211.5	255.8	244.1	221.0	203.5	197.6
100°	30.1	43.7	57.3	60.7	134.4	232.8	281.9	282.7	284.4	285.7	278.6
102.5°	36.4	49.1	61.8	64.9	139.7	239.4	289.3	304.1	333.7	356.0	349.9
105°	47.0	57.8	68.5	71.2	143.6	240.1	288.4	321.6	388.1	438.0	434.7
107.5°	57.9	67.9	78.0	80.5	144.4	229.5	272.1	318.5	411.2	480.7	481.5
110°	65.3	74.4	83.4	85.7	143.3	220.0	258.4	310.3	413.9	491.6	494.9



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CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	72.6	81.2	89.8	92.0	143.3	211.8	246.0	299.0	405.1	484.6	489.7
115°	83.5	91.5	99.4	101.4	144.6	202.2	231.0	282.2	384.3	460.9	468.2
117.5°	94.3	101.5	108.7	110.5	147.3	196.3	220.9	267.0	359.1	428.3	436.3
120°	100.6	107.4	114.2	115.9	149.5	194.4	216.8	258.9	343.1	406.3	414.2
122.5°	106.7	113.6	120.4	122.2	152.6	193.3	213.6	251.5	327.4	384.3	392.1
125°	116.2	122.4	128.7	130.3	156.9	192.5	210.2	242.4	306.9	355.2	362.3
127.5°	123.8	130.1	136.4	138.0	161.1	191.9	207.3	235.0	290.4	331.8	337.8
130°	127.9	134.7	141.4	143.2	164.2	192.2	206.2	230.9	280.1	317.0	322.6
132.5°	132.2	139.0	145.7	147.5	166.7	192.5	205.3	227.3	271.4	304.5	309.4
135°	138.4	144.6	150.8	152.4	169.5	192.3	203.7	222.1	259.1	286.7	291.0
137.5°	144.9	151.0	157.1	158.6	173.6	193.5	203.4	219.0	250.2	273.6	277.1
140°	150.2	155.8	161.5	162.9	176.1	193.7	202.4	215.9	242.9	263.1	266.3
142.5°	154.3	159.5	164.7	166.0	178.1	194.3	202.4	214.2	238.0	255.7	258.5
145°	160.6	165.1	169.6	170.8	180.9	194.3	201.0	210.7	230.0	244.6	246.7
147.5°	166.8	171.3	175.7	176.8	184.9	195.7	201.0	208.7	223.9	235.3	237.1
150°	170.9	174.9	179.0	180.0	187.0	196.4	201.0	207.5	220.3	230.0	231.4
152.5°	175.2	178.2	181.3	182.0	188.4	196.8	201.0	206.5	217.5	225.8	226.9
155°	181.5	183.7	186.0	186.6	191.4	197.8	201.0	205.4	214.1	220.7	221.4
157.5°	186.1	188.3	190.5	191.0	194.4	198.8	201.0	204.4	211.2	216.3	216.9
160°	189.3	191.0	192.7	193.1	195.8	199.3	201.0	203.9	209.8	214.1	214.4
162.5°	192.4	193.7	194.9	195.3	197.2	199.8	201.0	203.5	208.4	212.1	212.4
165°	195.8	196.9	198.1	198.4	199.3	200.5	201.0	202.8	206.3	208.9	209.2
167.5°	198.9	199.5	200.0	200.2	200.9	201.9	202.4	203.6	205.9	207.6	207.7
170°	201.0	201.6	202.1	202.2	202.3	202.4	202.4	203.6	205.9	207.6	207.6
172.5°	202.1	202.2	202.4	202.4	202.4	202.4	202.4	203.3	205.1	206.5	206.4
175°	203.7	203.7	203.7	203.7	203.2	202.7	202.4	202.9	204.1	205.0	205.0
177.5°	203.7	203.7	203.7	203.7	203.3	202.8	202.7	203.1	204.0	204.8	204.7
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1479.1	1475.0	1479.1	1476.3	1477.7	1473.6	1461.3	1457.2	1461.3	1465.4	1465.4
5°	1496.8	1494.1	1496.8	1496.8	1495.4	1492.7	1479.1	1476.3	1479.1	1480.4	1477.7
7.5°	1502.3	1498.2	1502.3	1499.5	1499.5	1496.8	1483.2	1480.4	1481.8	1485.9	1481.8
10°	1502.3	1498.2	1502.3	1500.9	1499.5	1496.8	1483.2	1477.7	1477.7	1481.8	1477.7
12.5°	1495.4	1492.7	1495.4	1492.7	1492.7	1490.0	1476.3	1470.9	1472.2	1473.6	1468.2
15°	1484.5	1480.4	1484.5	1481.8	1483.2	1479.1	1464.1	1458.6	1458.6	1461.3	1451.8
17.5°	1468.2	1462.7	1468.2	1466.8	1465.4	1462.7	1449.1	1443.6	1442.2	1443.6	1436.8
20°	1449.1	1445.0	1449.1	1447.7	1447.7	1442.2	1428.6	1421.8	1421.8	1421.8	1414.9
22.5°	1419.0	1414.9	1419.0	1421.8	1421.8	1420.4	1408.1	1398.6	1395.8	1395.8	1387.7
25°	1384.9	1380.8	1384.9	1384.9	1383.6	1384.9	1380.8	1375.4	1371.3	1367.2	1359.0
27.5°	1352.2	1349.4	1352.2	1349.4	1352.2	1348.1	1346.7	1345.4	1339.9	1335.8	1324.9
30°	1319.4	1316.7	1319.4	1316.7	1314.0	1311.2	1304.4	1301.7	1307.1	1304.4	1286.7
32.5°	1278.5	1275.8	1278.5	1278.5	1275.8	1275.8	1264.9	1260.8	1262.1	1270.3	1253.9
35°	1236.2	1232.1	1236.2	1234.8	1236.2	1232.1	1225.3	1223.9	1218.5	1228.0	1215.7
37.5°	1187.1	1183.0	1187.1	1187.1	1187.1	1189.8	1184.3	1180.3	1172.1	1184.3	1174.8
40°	1136.6	1131.1	1136.6	1135.2	1136.6	1139.3	1136.6	1133.9	1125.7	1135.2	1127.0
42.5°	1079.3	1077.9	1079.3	1080.6	1080.6	1086.1	1090.2	1084.7	1082.0	1075.2	1080.6
45°	1017.9	1015.2	1017.9	1020.6	1022.0	1024.7	1037.0	1037.0	1032.9	1022.0	1030.2
47.5°	952.4	945.6	952.4	960.6	960.6	964.7	977.0	986.5	979.7	966.0	970.1
50°	882.8	884.2	882.8	888.3	888.3	903.3	912.8	922.4	929.2	912.8	893.7
52.5°	814.6	813.2	814.6	818.7	824.1	831.0	847.3	856.9	867.8	858.2	828.2
55°	746.4	749.1	746.4	747.7	750.5	754.5	779.1	788.7	809.1	796.8	765.5
57.5°	678.1	674.0	678.1	680.9	682.2	686.3	706.8	724.5	736.8	738.2	700.0
60°	599.0	593.5	599.0	611.3	614.0	616.7	635.8	652.2	663.1	667.2	627.6
62.5°	529.4	519.9	529.4	537.6	543.1	549.9	563.5	588.1	597.6	599.0	543.1
65°	455.7	451.6	455.7	472.1	473.5	481.7	496.7	514.4	534.9	532.1	451.6
67.5°	388.9	388.9	388.9	399.8	408.0	412.1	431.2	439.4	465.3	468.0	376.6
70°	327.5	326.1	327.5	335.7	341.1	350.7	368.4	378.0	398.4	405.2	305.6
72.5°	268.8	267.4	268.8	275.6	281.1	289.3	304.3	315.2	332.9	341.1	237.4
75°	216.9	214.2	216.9	222.4	221.0	232.0	244.2	255.2	271.5	277.0	176.0
77.5°	166.5	166.5	166.5	171.9	171.9	182.8	188.3	201.9	211.5	219.7	129.6
80°	124.2	122.8	124.2	125.5	125.5	131.0	140.5	150.1	158.3	158.3	88.7
82.5°	87.3	84.6	87.3	87.3	87.3	90.1	95.5	98.2	103.7	107.8	55.9
85°	54.6	54.6	54.6	55.9	54.6	57.3	58.7	61.4	61.4	58.7	34.1
87.5°	35.5	34.1	35.5	34.1	34.1	32.7	32.7	32.7	31.4	30.0	19.1
90°	5.2	5.2	5.2	5.2	5.2	6.9	9.2	10.4	8.9	6.0	3.8
92.5°	20.7	16.6	20.7	24.9	25.9	36.7	51.2	58.5	51.4	37.1	26.4
95°	72.5	60.0	72.5	85.1	88.1	115.7	152.5	170.9	144.4	91.2	51.4
97.5°	173.7	149.9	173.7	197.6	203.5	221.0	244.1	255.8	211.5	122.9	56.4
100°	250.3	222.0	250.3	278.6	285.7	284.4	282.7	281.9	232.8	134.4	60.7
102.5°	325.7	301.4	325.7	349.9	356.0	333.7	304.1	289.3	239.4	139.7	64.9
105°	421.7	408.6	421.7	434.7	438.0	388.1	321.6	288.4	240.1	143.6	71.2
107.5°	484.6	487.7	484.6	481.5	480.7	411.2	318.5	272.1	229.5	144.4	80.5
110°	508.6	522.2	508.6	494.9	491.6	413.9	310.3	258.4	220.0	143.3	85.7



TEST NUMBER: P933940

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	510.7	531.6	510.7	489.7	484.6	405.1	299.0	246.0	211.8	143.3	92.0
115°	497.1	526.1	497.1	468.2	460.9	384.3	282.2	231.0	202.2	144.6	101.4
117.5°	468.5	500.6	468.5	436.3	428.3	359.1	267.0	220.9	196.3	147.3	110.5
120°	445.4	476.6	445.4	414.2	406.3	343.1	258.9	216.8	194.4	149.5	115.9
122.5°	422.8	453.5	422.8	392.1	384.3	327.4	251.5	213.6	193.3	152.6	122.2
125°	390.6	419.0	390.6	362.3	355.2	306.9	242.4	210.2	192.5	156.9	130.3
127.5°	361.8	385.7	361.8	337.8	331.8	290.4	235.0	207.3	191.9	161.1	138.0
130°	344.7	366.8	344.7	322.6	317.0	280.1	230.9	206.2	192.2	164.2	143.2
132.5°	329.2	349.0	329.2	309.4	304.5	271.4	227.3	205.3	192.5	166.7	147.5
135°	308.0	325.1	308.0	291.0	286.7	259.1	222.1	203.7	192.3	169.5	152.4
137.5°	291.1	305.0	291.1	277.1	273.6	250.2	219.0	203.4	193.5	173.6	158.6
140°	279.3	292.4	279.3	266.3	263.1	242.9	215.9	202.4	193.7	176.1	162.9
142.5°	269.7	281.0	269.7	258.5	255.7	238.0	214.2	202.4	194.3	178.1	166.0
145°	255.2	263.8	255.2	246.7	244.6	230.0	210.7	201.0	194.3	180.9	170.8
147.5°	244.1	251.2	244.1	237.1	235.3	223.9	208.7	201.0	195.7	184.9	176.8
150°	237.1	242.9	237.1	231.4	230.0	220.3	207.5	201.0	196.4	187.0	180.0
152.5°	231.1	235.5	231.1	226.9	225.8	217.5	206.5	201.0	196.8	188.4	182.0
155°	224.2	227.1	224.2	221.4	220.7	214.1	205.4	201.0	197.8	191.4	186.6
157.5°	218.9	220.9	218.9	216.9	216.3	211.2	204.4	201.0	198.8	194.4	191.0
160°	215.6	216.8	215.6	214.4	214.1	209.8	203.9	201.0	199.3	195.8	193.1
162.5°	213.5	214.6	213.5	212.4	212.1	208.4	203.5	201.0	199.8	197.2	195.3
165°	210.4	211.6	210.4	209.2	208.9	206.3	202.8	201.0	200.5	199.3	198.4
167.5°	208.2	208.7	208.2	207.7	207.6	205.9	203.6	202.4	201.9	200.9	200.2
170°	207.6	207.6	207.6	207.6	207.6	205.9	203.6	202.4	202.4	202.3	202.2
172.5°	205.9	205.6	205.9	206.4	206.5	205.1	203.3	202.4	202.4	202.4	202.4
175°	205.0	205.0	205.0	205.0	205.0	204.1	202.9	202.4	202.7	203.2	203.7
177.5°	204.1	203.7	204.1	204.7	204.8	204.0	203.1	202.7	202.8	203.3	203.7
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P933940

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1462.7	1454.5	1454.5	1440.9	1435.4	1431.3	1424.5	1404.0	1398.6	1393.1	1401.3
5°	1475.0	1460.0	1449.1	1424.5	1404.0	1395.8	1369.9	1320.8	1288.0	1263.5	1249.8
7.5°	1477.7	1458.6	1438.1	1399.9	1350.8	1329.0	1249.8	1159.8	1135.2	1113.4	1099.8
10°	1475.0	1453.1	1424.5	1367.2	1251.2	1213.0	1133.9	1075.2	1060.2	1056.1	1060.2
12.5°	1465.4	1445.0	1405.4	1309.9	1147.5	1121.6	1075.2	1041.1	1038.4	1045.2	1082.0
15°	1449.1	1429.9	1383.6	1233.5	1090.2	1071.1	1038.4	1026.1	1041.1	1088.8	1199.4
17.5°	1432.7	1410.8	1353.5	1158.4	1046.5	1032.9	1009.7	1034.3	1118.9	1183.0	1219.8
20°	1410.8	1384.9	1319.4	1103.8	1015.2	1002.9	992.0	1102.5	1166.6	1189.8	1210.3
22.5°	1384.9	1357.6	1273.0	1065.6	982.4	972.9	979.7	1140.7	1166.6	1183.0	1200.7
25°	1350.8	1327.6	1218.5	1035.6	956.5	945.6	971.5	1136.6	1151.6	1155.7	1191.2
27.5°	1319.4	1289.4	1161.2	1008.3	925.1	921.0	978.3	1118.9	1129.8	1133.9	1172.1
30°	1281.2	1236.2	1097.0	979.7	892.4	891.0	979.7	1097.0	1094.3	1105.2	1143.4
32.5°	1241.7	1157.1	1024.7	944.2	861.0	859.6	970.1	1064.3	1061.5	1076.6	1105.2
35°	1204.8	1095.7	926.5	903.3	821.4	822.8	946.9	1026.1	1027.4	1041.1	1058.8
37.5°	1166.6	1042.4	818.7	858.2	783.2	783.2	915.5	990.6	987.9	992.0	1016.5
40°	1121.6	959.2	723.2	799.6	747.7	743.6	877.3	952.4	942.8	941.5	975.6
42.5°	1073.8	867.8	652.2	721.8	706.8	701.3	831.0	906.0	888.3	892.4	936.0
45°	1022.0	843.2	597.6	609.9	664.5	660.4	780.5	852.8	840.5	851.4	896.4
47.5°	970.1	794.1	579.9	506.2	619.5	618.1	724.5	800.9	794.1	805.0	852.8
50°	899.2	739.5	578.5	433.9	569.0	574.4	657.7	750.5	750.5	760.0	810.5
52.5°	807.8	672.7	525.3	393.0	510.3	526.7	599.0	706.8	709.5	719.1	764.1
55°	724.5	603.1	487.1	361.6	440.7	476.2	541.7	661.8	667.2	676.8	717.7
57.5°	648.1	502.1	478.9	324.7	376.6	410.7	491.2	618.1	620.8	629.0	668.6
60°	566.2	362.9	439.4	285.2	320.6	346.6	444.8	566.2	575.8	581.3	615.4
62.5°	473.5	263.3	398.4	257.9	293.4	298.8	406.6	517.1	529.4	533.5	554.0
65°	337.0	221.0	338.4	234.7	264.7	266.1	365.7	466.6	477.6	484.4	499.4
67.5°	227.9	180.1	257.9	212.9	242.9	244.2	326.1	408.0	423.0	428.4	438.0
70°	158.3	120.1	191.0	189.7	218.3	221.0	283.8	354.8	368.4	372.5	378.0
72.5°	116.0	96.9	158.3	170.6	192.4	195.1	240.1	294.7	308.4	312.5	315.2
75°	88.7	102.3	128.3	148.7	163.7	165.1	196.5	240.1	249.7	252.4	253.8
77.5°	71.0	95.5	94.1	120.1	133.7	131.0	154.2	185.6	193.8	193.8	193.8
80°	53.2	75.0	71.0	86.0	98.2	95.5	110.5	132.4	135.1	137.8	136.4
82.5°	39.6	47.8	47.8	54.6	65.5	62.8	73.7	86.0	86.0	86.0	88.7
85°	24.6	27.3	21.8	28.7	36.8	35.5	40.9	46.4	47.8	47.8	45.0
87.5°	15.0	12.3	6.8	10.9	16.4	16.4	19.1	20.5	19.1	19.1	19.1
90°	3.5	2.5	1.4	2.5	3.5	3.8	6.0	8.9	10.4	9.2	6.9
92.5°	24.0	14.7	5.5	14.7	24.0	26.4	37.1	51.4	58.5	51.2	36.7
95°	47.1	30.1	13.1	30.1	47.1	51.4	91.2	144.4	170.9	152.5	115.7
97.5°	52.7	37.7	22.6	37.7	52.7	56.4	122.9	211.5	255.8	244.1	221.0
100°	57.3	43.7	30.1	43.7	57.3	60.7	134.4	232.8	281.9	282.7	284.4
102.5°	61.8	49.1	36.4	49.1	61.8	64.9	139.7	239.4	289.3	304.1	333.7
105°	68.5	57.8	47.0	57.8	68.5	71.2	143.6	240.1	288.4	321.6	388.1
107.5°	78.0	67.9	57.9	67.9	78.0	80.5	144.4	229.5	272.1	318.5	411.2
110°	83.4	74.4	65.3	74.4	83.4	85.7	143.3	220.0	258.4	310.3	413.9



TEST NUMBER: P933940

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	89.8	81.2	72.6	81.2	89.8	92.0	143.3	211.8	246.0	299.0	405.1
115°	99.4	91.5	83.5	91.5	99.4	101.4	144.6	202.2	231.0	282.2	384.3
117.5°	108.7	101.5	94.3	101.5	108.7	110.5	147.3	196.3	220.9	267.0	359.1
120°	114.2	107.4	100.6	107.4	114.2	115.9	149.5	194.4	216.8	258.9	343.1
122.5°	120.4	113.6	106.7	113.6	120.4	122.2	152.6	193.3	213.6	251.5	327.4
125°	128.7	122.4	116.2	122.4	128.7	130.3	156.9	192.5	210.2	242.4	306.9
127.5°	136.4	130.1	123.8	130.1	136.4	138.0	161.1	191.9	207.3	235.0	290.4
130°	141.4	134.7	127.9	134.7	141.4	143.2	164.2	192.2	206.2	230.9	280.1
132.5°	145.7	139.0	132.2	139.0	145.7	147.5	166.7	192.5	205.3	227.3	271.4
135°	150.8	144.6	138.4	144.6	150.8	152.4	169.5	192.3	203.7	222.1	259.1
137.5°	157.1	151.0	144.9	151.0	157.1	158.6	173.6	193.5	203.4	219.0	250.2
140°	161.5	155.8	150.2	155.8	161.5	162.9	176.1	193.7	202.4	215.9	242.9
142.5°	164.7	159.5	154.3	159.5	164.7	166.0	178.1	194.3	202.4	214.2	238.0
145°	169.6	165.1	160.6	165.1	169.6	170.8	180.9	194.3	201.0	210.7	230.0
147.5°	175.7	171.3	166.8	171.3	175.7	176.8	184.9	195.7	201.0	208.7	223.9
150°	179.0	174.9	170.9	174.9	179.0	180.0	187.0	196.4	201.0	207.5	220.3
152.5°	181.3	178.2	175.2	178.2	181.3	182.0	188.4	196.8	201.0	206.5	217.5
155°	186.0	183.7	181.5	183.7	186.0	186.6	191.4	197.8	201.0	205.4	214.1
157.5°	190.5	188.3	186.1	188.3	190.5	191.0	194.4	198.8	201.0	204.4	211.2
160°	192.7	191.0	189.3	191.0	192.7	193.1	195.8	199.3	201.0	203.9	209.8
162.5°	194.9	193.7	192.4	193.7	194.9	195.3	197.2	199.8	201.0	203.5	208.4
165°	198.1	196.9	195.8	196.9	198.1	198.4	199.3	200.5	201.0	202.8	206.3
167.5°	200.0	199.5	198.9	199.5	200.0	200.2	200.9	201.9	202.4	203.6	205.9
170°	202.1	201.6	201.0	201.6	202.1	202.2	202.3	202.4	202.4	203.6	205.9
172.5°	202.4	202.2	202.1	202.2	202.4	202.4	202.4	202.4	202.4	203.3	205.1
175°	203.7	203.7	203.7	203.7	203.7	203.7	203.2	202.7	202.4	202.9	204.1
177.5°	203.7	203.7	203.7	203.7	203.7	203.7	203.3	202.8	202.7	203.1	204.0
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P933940

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1391.7	1387.7	1393.1	1378.1	1393.1	1387.7	1391.7	1401.3	1393.1	1398.6	1404.0
5°	1221.2	1214.4	1192.5	1174.8	1192.5	1214.4	1221.2	1249.8	1263.5	1288.0	1320.8
7.5°	1091.6	1086.1	1080.6	1069.7	1080.6	1086.1	1091.6	1099.8	1113.4	1135.2	1159.8
10°	1062.9	1064.3	1072.5	1071.1	1072.5	1064.3	1062.9	1060.2	1056.1	1060.2	1075.2
12.5°	1136.6	1148.9	1193.9	1191.2	1193.9	1148.9	1136.6	1082.0	1045.2	1038.4	1041.1
15°	1221.2	1225.3	1234.8	1236.2	1234.8	1225.3	1221.2	1199.4	1088.8	1041.1	1026.1
17.5°	1229.4	1230.7	1237.6	1237.6	1237.6	1230.7	1229.4	1219.8	1183.0	1118.9	1034.3
20°	1222.6	1225.3	1238.9	1241.7	1238.9	1225.3	1222.6	1210.3	1189.8	1166.6	1102.5
22.5°	1219.8	1225.3	1236.2	1234.8	1236.2	1225.3	1219.8	1200.7	1183.0	1166.6	1140.7
25°	1206.2	1206.2	1207.5	1208.9	1207.5	1206.2	1206.2	1191.2	1155.7	1151.6	1136.6
27.5°	1177.5	1180.3	1188.4	1187.1	1188.4	1180.3	1177.5	1172.1	1133.9	1129.8	1118.9
30°	1151.6	1148.9	1142.0	1136.6	1142.0	1148.9	1151.6	1143.4	1105.2	1094.3	1097.0
32.5°	1107.9	1101.1	1094.3	1090.2	1094.3	1101.1	1107.9	1105.2	1076.6	1061.5	1064.3
35°	1056.1	1057.5	1056.1	1052.0	1056.1	1057.5	1056.1	1058.8	1041.1	1027.4	1026.1
37.5°	1019.2	1022.0	1020.6	1015.2	1020.6	1022.0	1019.2	1016.5	992.0	987.9	990.6
40°	981.0	982.4	981.0	977.0	981.0	982.4	981.0	975.6	941.5	942.8	952.4
42.5°	944.2	942.8	938.7	936.0	938.7	942.8	944.2	936.0	892.4	888.3	906.0
45°	901.9	903.3	895.1	891.0	895.1	903.3	901.9	896.4	851.4	840.5	852.8
47.5°	859.6	859.6	852.8	848.7	852.8	859.6	859.6	852.8	805.0	794.1	800.9
50°	814.6	813.2	803.7	802.3	803.7	813.2	814.6	810.5	760.0	750.5	750.5
52.5°	762.7	762.7	764.1	766.8	764.1	762.7	762.7	764.1	719.1	709.5	706.8
55°	717.7	719.1	728.6	731.3	728.6	719.1	717.7	717.7	676.8	667.2	661.8
57.5°	671.3	671.3	678.1	678.1	678.1	671.3	671.3	668.6	629.0	620.8	618.1
60°	618.1	620.8	626.3	624.9	626.3	620.8	618.1	615.4	581.3	575.8	566.2
62.5°	562.2	564.9	566.2	563.5	566.2	564.9	562.2	554.0	533.5	529.4	517.1
65°	503.5	506.2	507.6	504.8	507.6	506.2	503.5	499.4	484.4	477.6	466.6
67.5°	443.4	442.1	440.7	446.2	440.7	442.1	443.4	438.0	428.4	423.0	408.0
70°	382.0	382.0	380.7	383.4	380.7	382.0	382.0	378.0	372.5	368.4	354.8
72.5°	316.6	315.2	320.6	316.6	320.6	315.2	316.6	315.2	312.5	308.4	294.7
75°	252.4	255.2	252.4	256.5	252.4	255.2	252.4	253.8	252.4	249.7	240.1
77.5°	192.4	195.1	192.4	192.4	192.4	195.1	192.4	193.8	193.8	193.8	185.6
80°	136.4	135.1	135.1	133.7	135.1	135.1	136.4	136.4	137.8	135.1	132.4
82.5°	87.3	86.0	86.0	88.7	86.0	86.0	87.3	88.7	86.0	86.0	86.0
85°	47.8	49.1	46.4	46.4	46.4	49.1	47.8	45.0	47.8	47.8	46.4
87.5°	17.7	16.4	16.4	16.4	16.4	16.4	17.7	19.1	19.1	19.1	20.5
90°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.9	9.2	10.4	8.9
92.5°	25.9	24.9	20.7	16.6	20.7	24.9	25.9	36.7	51.2	58.5	51.4
95°	88.1	85.1	72.5	60.0	72.5	85.1	88.1	115.7	152.5	170.9	144.4
97.5°	203.5	197.6	173.7	149.9	173.7	197.6	203.5	221.0	244.1	255.8	211.5
100°	285.7	278.6	250.3	222.0	250.3	278.6	285.7	284.4	282.7	281.9	232.8
102.5°	356.0	349.9	325.7	301.4	325.7	349.9	356.0	333.7	304.1	289.3	239.4
105°	438.0	434.7	421.7	408.6	421.7	434.7	438.0	388.1	321.6	288.4	240.1
107.5°	480.7	481.5	484.6	487.7	484.6	481.5	480.7	411.2	318.5	272.1	229.5
110°	491.6	494.9	508.6	522.2	508.6	494.9	491.6	413.9	310.3	258.4	220.0



TEST NUMBER: P933940

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	484.6	489.7	510.7	531.6	510.7	489.7	484.6	405.1	299.0	246.0	211.8
115°	460.9	468.2	497.1	526.1	497.1	468.2	460.9	384.3	282.2	231.0	202.2
117.5°	428.3	436.3	468.5	500.6	468.5	436.3	428.3	359.1	267.0	220.9	196.3
120°	406.3	414.2	445.4	476.6	445.4	414.2	406.3	343.1	258.9	216.8	194.4
122.5°	384.3	392.1	422.8	453.5	422.8	392.1	384.3	327.4	251.5	213.6	193.3
125°	355.2	362.3	390.6	419.0	390.6	362.3	355.2	306.9	242.4	210.2	192.5
127.5°	331.8	337.8	361.8	385.7	361.8	337.8	331.8	290.4	235.0	207.3	191.9
130°	317.0	322.6	344.7	366.8	344.7	322.6	317.0	280.1	230.9	206.2	192.2
132.5°	304.5	309.4	329.2	349.0	329.2	309.4	304.5	271.4	227.3	205.3	192.5
135°	286.7	291.0	308.0	325.1	308.0	291.0	286.7	259.1	222.1	203.7	192.3
137.5°	273.6	277.1	291.1	305.0	291.1	277.1	273.6	250.2	219.0	203.4	193.5
140°	263.1	266.3	279.3	292.4	279.3	266.3	263.1	242.9	215.9	202.4	193.7
142.5°	255.7	258.5	269.7	281.0	269.7	258.5	255.7	238.0	214.2	202.4	194.3
145°	244.6	246.7	255.2	263.8	255.2	246.7	244.6	230.0	210.7	201.0	194.3
147.5°	235.3	237.1	244.1	251.2	244.1	237.1	235.3	223.9	208.7	201.0	195.7
150°	230.0	231.4	237.1	242.9	237.1	231.4	230.0	220.3	207.5	201.0	196.4
152.5°	225.8	226.9	231.1	235.5	231.1	226.9	225.8	217.5	206.5	201.0	196.8
155°	220.7	221.4	224.2	227.1	224.2	221.4	220.7	214.1	205.4	201.0	197.8
157.5°	216.3	216.9	218.9	220.9	218.9	216.9	216.3	211.2	204.4	201.0	198.8
160°	214.1	214.4	215.6	216.8	215.6	214.4	214.1	209.8	203.9	201.0	199.3
162.5°	212.1	212.4	213.5	214.6	213.5	212.4	212.1	208.4	203.5	201.0	199.8
165°	208.9	209.2	210.4	211.6	210.4	209.2	208.9	206.3	202.8	201.0	200.5
167.5°	207.6	207.7	208.2	208.7	208.2	207.7	207.6	205.9	203.6	202.4	201.9
170°	207.6	207.6	207.6	207.6	207.6	207.6	207.6	205.9	203.6	202.4	202.4
172.5°	206.5	206.4	205.9	205.6	205.9	206.4	206.5	205.1	203.3	202.4	202.4
175°	205.0	205.0	205.0	205.0	205.0	205.0	205.0	204.1	202.9	202.4	202.7
177.5°	204.8	204.7	204.1	203.7	204.1	204.7	204.8	204.0	203.1	202.7	202.8
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P933940

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1424.5	1431.3	1435.4	1440.9	1454.5
5°	1369.9	1395.8	1404.0	1424.5	1449.1
7.5°	1249.8	1329.0	1350.8	1399.9	1438.1
10°	1133.9	1213.0	1251.2	1367.2	1424.5
12.5°	1075.2	1121.6	1147.5	1309.9	1405.4
15°	1038.4	1071.1	1090.2	1233.5	1383.6
17.5°	1009.7	1032.9	1046.5	1158.4	1353.5
20°	992.0	1002.9	1015.2	1103.8	1319.4
22.5°	979.7	972.9	982.4	1065.6	1273.0
25°	971.5	945.6	956.5	1035.6	1218.5
27.5°	978.3	921.0	925.1	1008.3	1161.2
30°	979.7	891.0	892.4	979.7	1097.0
32.5°	970.1	859.6	861.0	944.2	1024.7
35°	946.9	822.8	821.4	903.3	926.5
37.5°	915.5	783.2	783.2	858.2	818.7
40°	877.3	743.6	747.7	799.6	723.2
42.5°	831.0	701.3	706.8	721.8	652.2
45°	780.5	660.4	664.5	609.9	597.6
47.5°	724.5	618.1	619.5	506.2	579.9
50°	657.7	574.4	569.0	433.9	578.5
52.5°	599.0	526.7	510.3	393.0	525.3
55°	541.7	476.2	440.7	361.6	487.1
57.5°	491.2	410.7	376.6	324.7	478.9
60°	444.8	346.6	320.6	285.2	439.4
62.5°	406.6	298.8	293.4	257.9	398.4
65°	365.7	266.1	264.7	234.7	338.4
67.5°	326.1	244.2	242.9	212.9	257.9
70°	283.8	221.0	218.3	189.7	191.0
72.5°	240.1	195.1	192.4	170.6	158.3
75°	196.5	165.1	163.7	148.7	128.3
77.5°	154.2	131.0	133.7	120.1	94.1
80°	110.5	95.5	98.2	86.0	71.0
82.5°	73.7	62.8	65.5	54.6	47.8
85°	40.9	35.5	36.8	28.7	21.8
87.5°	19.1	16.4	16.4	10.9	6.8
90°	6.0	3.8	3.5	2.5	1.4
92.5°	37.1	26.4	24.0	14.7	5.5
95°	91.2	51.4	47.1	30.1	13.1
97.5°	122.9	56.4	52.7	37.7	22.6
100°	134.4	60.7	57.3	43.7	30.1
102.5°	139.7	64.9	61.8	49.1	36.4
105°	143.6	71.2	68.5	57.8	47.0
107.5°	144.4	80.5	78.0	67.9	57.9
110°	143.3	85.7	83.4	74.4	65.3



TEST NUMBER: P933940

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	143.3	92.0	89.8	81.2	72.6
115°	144.6	101.4	99.4	91.5	83.5
117.5°	147.3	110.5	108.7	101.5	94.3
120°	149.5	115.9	114.2	107.4	100.6
122.5°	152.6	122.2	120.4	113.6	106.7
125°	156.9	130.3	128.7	122.4	116.2
127.5°	161.1	138.0	136.4	130.1	123.8
130°	164.2	143.2	141.4	134.7	127.9
132.5°	166.7	147.5	145.7	139.0	132.2
135°	169.5	152.4	150.8	144.6	138.4
137.5°	173.6	158.6	157.1	151.0	144.9
140°	176.1	162.9	161.5	155.8	150.2
142.5°	178.1	166.0	164.7	159.5	154.3
145°	180.9	170.8	169.6	165.1	160.6
147.5°	184.9	176.8	175.7	171.3	166.8
150°	187.0	180.0	179.0	174.9	170.9
152.5°	188.4	182.0	181.3	178.2	175.2
155°	191.4	186.6	186.0	183.7	181.5
157.5°	194.4	191.0	190.5	188.3	186.1
160°	195.8	193.1	192.7	191.0	189.3
162.5°	197.2	195.3	194.9	193.7	192.4
165°	199.3	198.4	198.1	196.9	195.8
167.5°	200.9	200.2	200.0	199.5	198.9
170°	202.3	202.2	202.1	201.6	201.0
172.5°	202.4	202.4	202.4	202.2	202.1
175°	203.2	203.7	203.7	203.7	203.7
177.5°	203.3	203.7	203.7	203.7	203.7
180°	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P933940

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-4000K

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	14.37	15.50	15.09	16.24	17.12	17.20	18.32	17.92	19.06	19.95
	3H	14.87	15.88	15.60	16.63	17.55	18.56	19.57	19.29	20.32	21.24
	4H	15.07	16.03	15.82	16.79	17.71	19.01	19.97	19.77	20.73	21.66
	6H	15.20	16.09	15.97	16.86	17.80	19.31	20.19	20.08	20.96	21.90
	8H	15.21	16.05	15.99	16.84	17.78	19.39	20.23	20.17	21.02	21.96
	12H	15.19	15.99	15.98	16.78	17.75	19.44	20.24	20.22	21.02	21.99
4H	2H	15.43	16.39	16.19	17.15	18.08	17.64	18.59	18.39	19.35	20.28
	3H	16.49	17.28	17.25	18.08	19.02	19.17	19.96	19.93	20.76	21.70
	4H	16.77	17.50	17.56	18.29	19.27	19.70	20.43	20.49	21.22	22.20
	6H	16.91	17.54	17.72	18.36	19.34	20.08	20.71	20.88	21.53	22.51
	8H	16.93	17.51	17.73	18.33	19.32	20.19	20.78	21.00	21.60	22.59
	12H	16.91	17.43	17.73	18.27	19.27	20.26	20.79	21.09	21.63	22.62
8H	4H	17.25	17.83	18.05	18.65	19.64	19.85	20.43	20.66	21.25	22.24
	6H	17.52	18.00	18.35	18.86	19.86	20.30	20.78	21.13	21.64	22.63
	8H	17.56	18.00	18.41	18.85	19.86	20.45	20.88	21.30	21.74	22.74
	12H	17.56	17.94	18.41	18.79	19.85	20.56	20.94	21.41	21.78	22.85
12H	4H	17.27	17.79	18.09	18.63	19.63	19.83	20.35	20.65	21.19	22.19
	6H	17.58	18.01	18.43	18.87	19.88	20.29	20.73	21.14	21.58	22.59
	8H	17.66	18.04	18.51	18.89	19.95	20.47	20.85	21.32	21.69	22.76