

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: P933964

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933964
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-93050-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

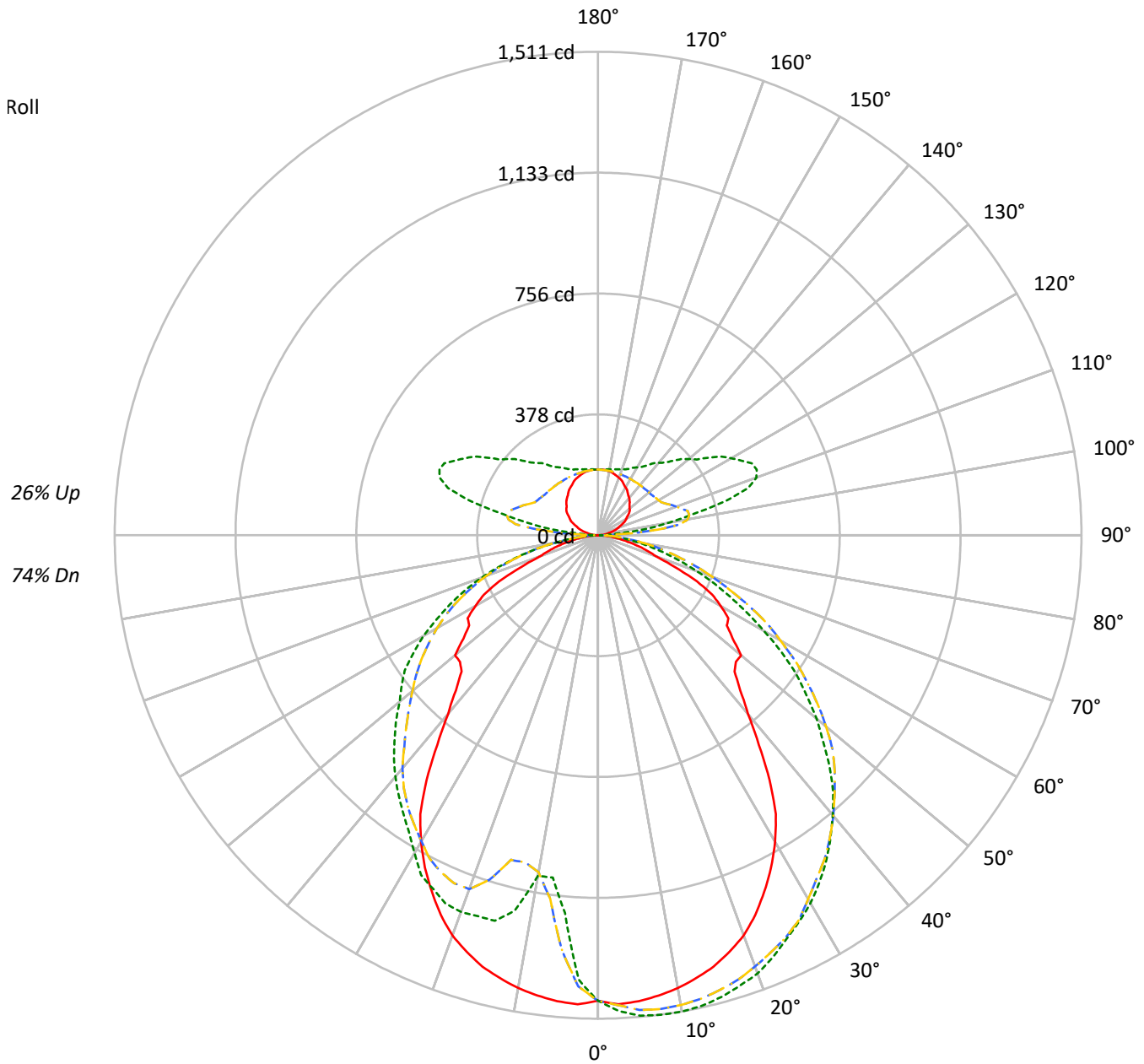
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5105.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: 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	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°	9001	9001	9001	9001
5°	9065	9086	9065	7144
10°	9001	8950	9001	6399
15°	8899	8756	8899	7311
20°	8710	8527	8710	7327
25°	8326	8192	8326	7171
30°	7830	7914	7830	6831
35°	6977	7561	6977	6456
40°	5811	7148	5811	6173
45°	5188	6662	5188	5848
50°	5508	6084	5508	5521
55°	5177	5461	5177	5332
60°	5330	4638	5330	4884
65°	4825	3834	4825	4286
70°	3333	3056	3333	3593
75°	2912	2259	2912	2705
80°	2330	1493	2330	1626
85°	1312	791	1312	672

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7957 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	2.6
10°-20°	372.9	7.3
20°-30°	576.5	11.3
30°-40°	688.2	13.5
40°-50°	692.2	13.6
50°-60°	602.3	11.8
60°-70°	427.0	8.4
70°-80°	225.9	4.4
80°-90°	57.1	1.1
90°-100°	100.1	2.0
100°-110°	263.3	5.2
110°-120°	273.0	5.3
120°-130°	219.0	4.3
130°-140°	171.8	3.4
140°-150°	131.9	2.6
150°-160°	95.0	1.9
160°-170°	58.1	1.1
170°-180°	19.6	0.4
0°-30°	1080.7	21.2
0°-40°	1768.9	34.6
0°-60°	3063.3	60.0
0°-90°	3773.4	73.9
90°-120°	636.3	12.5
90°-150°	1159.0	22.7
90°-180°	1332.0	26.1
0°-180°	5105.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1455	1455	1455	1455	1455	
5°	1462	1507	1462	1185	1462	139
15°	1396	1494	1396	1247	1396	393
25°	1229	1393	1229	1220	1229	564
35°	935	1243	935	1061	935	578
45°	603	1024	603	899	603	483
55°	491	756	491	738	491	452
65°	341	456	341	509	341	326
75°	129	216	129	259	129	136
85°	22	55	22	47	22	30
90°	1	5	1	5	1	2
95°	13	61	13	61	13	15
105°	47	412	47	412	47	50
115°	84	531	84	531	84	83
125°	117	423	117	423	117	104
135°	140	328	140	328	140	108
145°	162	266	162	266	162	101
155°	183	229	183	229	183	84
165°	198	214	198	214	198	56
175°	206	207	206	207	206	20
180°	206	206	206	206	206	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1467.4	1467.4	1475.7	1478.4	1478.4	1474.3	1470.1	1474.3	1486.7	1490.8	1489.4
5°	1461.9	1472.9	1488.0	1490.8	1493.5	1492.2	1489.4	1492.2	1505.9	1508.7	1510.1
7.5°	1450.9	1471.5	1490.8	1494.9	1499.1	1494.9	1493.5	1496.3	1510.1	1512.8	1512.8
10°	1437.1	1466.0	1488.0	1490.8	1494.9	1490.8	1490.8	1496.3	1510.1	1512.8	1514.2
12.5°	1417.8	1457.8	1478.4	1481.2	1486.7	1485.3	1483.9	1489.4	1503.2	1505.9	1505.9
15°	1395.8	1442.6	1461.9	1464.6	1474.3	1471.5	1471.5	1477.0	1492.2	1496.3	1494.9
17.5°	1365.5	1423.3	1445.4	1449.5	1456.4	1455.0	1456.4	1461.9	1475.7	1478.4	1479.8
20°	1331.1	1397.2	1423.3	1427.5	1434.4	1434.4	1434.4	1441.2	1455.0	1460.5	1460.5
22.5°	1284.3	1369.7	1397.2	1399.9	1408.2	1408.2	1411.0	1420.6	1433.0	1434.4	1434.4
25°	1229.3	1339.4	1362.8	1371.0	1379.3	1383.4	1387.6	1393.1	1397.2	1395.8	1397.2
27.5°	1171.4	1300.8	1331.1	1336.6	1347.6	1351.8	1357.3	1358.6	1360.0	1364.2	1361.4
30°	1106.7	1247.1	1292.6	1298.1	1316.0	1318.7	1313.2	1316.0	1322.9	1325.6	1328.4
32.5°	1033.8	1167.3	1252.7	1265.0	1281.6	1273.3	1271.9	1276.1	1287.1	1287.1	1289.8
35°	934.7	1105.4	1215.5	1226.5	1238.9	1229.3	1234.8	1236.1	1243.0	1247.1	1245.8
37.5°	825.9	1051.7	1176.9	1185.2	1194.8	1182.5	1190.7	1194.8	1200.3	1197.6	1197.6
40°	729.6	967.7	1131.5	1137.0	1145.3	1135.6	1143.9	1146.7	1149.4	1146.7	1145.3
42.5°	658.0	875.5	1083.3	1090.2	1084.7	1091.6	1094.4	1099.9	1095.7	1090.2	1090.2
45°	602.9	850.7	1031.0	1039.3	1031.0	1042.0	1046.2	1046.2	1033.8	1031.0	1029.7
47.5°	585.0	801.1	978.7	978.7	974.6	988.4	995.2	985.6	973.2	969.1	969.1
50°	583.7	746.1	907.1	901.6	920.9	937.4	930.5	920.9	911.3	896.1	896.1
52.5°	530.0	678.6	814.9	835.6	865.8	875.5	864.5	854.8	838.3	831.4	825.9
55°	491.4	608.4	730.9	772.2	803.9	816.3	795.6	786.0	761.2	757.1	754.3
57.5°	483.2	506.6	653.9	706.2	744.7	743.3	730.9	713.0	692.4	688.3	686.9
60°	443.2	366.2	571.3	633.2	673.1	669.0	658.0	641.5	622.2	619.4	616.7
62.5°	402.0	265.7	477.7	547.9	604.3	602.9	593.3	568.5	554.7	547.9	542.4
65°	341.4	223.0	340.0	455.6	536.9	539.6	519.0	501.1	485.9	477.7	476.3
67.5°	260.2	181.7	229.9	379.9	472.2	469.4	443.2	435.0	415.7	411.6	403.3
70°	192.7	121.1	159.7	308.3	408.8	402.0	381.3	371.7	353.8	344.1	338.6
72.5°	159.7	97.7	117.0	239.5	344.1	335.9	318.0	307.0	291.8	283.6	278.1
75°	129.4	103.2	89.5	177.6	279.4	273.9	257.4	246.4	234.0	223.0	224.4
77.5°	95.0	96.4	71.6	130.8	221.6	213.4	203.7	190.0	184.5	173.4	173.4
80°	71.6	75.7	53.7	89.5	159.7	159.7	151.4	141.8	132.1	126.6	126.6
82.5°	48.2	48.2	39.9	56.4	108.7	104.6	99.1	96.4	90.9	88.1	88.1
85°	22.0	27.5	24.8	34.4	59.2	61.9	61.9	59.2	57.8	55.1	56.4
87.5°	6.9	12.4	15.1	19.3	30.3	31.7	33.0	33.0	33.0	34.4	34.4
90°	1.4	2.5	3.6	3.9	6.1	9.0	10.5	9.3	7.0	5.2	5.2
92.5°	5.5	14.9	24.2	26.6	37.4	51.8	59.0	51.7	37.1	26.2	25.1
95°	13.2	30.4	47.5	51.8	92.0	145.6	172.4	153.9	116.7	88.9	85.8
97.5°	22.9	38.0	53.1	56.9	124.0	213.4	258.1	246.3	222.9	205.3	199.3
100°	30.4	44.0	57.8	61.2	135.6	234.8	284.4	285.2	287.0	288.2	281.1
102.5°	36.7	49.6	62.3	65.5	141.0	241.5	291.8	306.8	336.7	359.2	353.0
105°	47.4	58.3	69.1	71.9	144.9	242.3	291.0	324.5	391.6	441.9	438.6
107.5°	58.5	68.6	78.6	81.2	145.6	231.5	274.5	321.3	414.8	484.9	485.7
110°	65.9	75.1	84.2	86.4	144.5	222.0	260.7	313.0	417.6	495.9	499.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	73.2	82.0	90.6	92.8	144.5	213.6	248.1	301.6	408.6	488.9	494.1
115°	84.2	92.3	100.3	102.3	145.9	204.0	233.1	284.7	387.7	465.0	472.3
117.5°	95.2	102.4	109.7	111.5	148.6	198.0	222.8	269.3	362.3	432.1	440.1
120°	101.5	108.4	115.2	116.9	150.9	196.1	218.7	261.2	346.2	409.9	417.8
122.5°	107.6	114.6	121.5	123.2	154.0	195.0	215.5	253.7	330.3	387.7	395.5
125°	117.2	123.5	129.9	131.4	158.3	194.2	212.1	244.6	309.6	358.4	365.5
127.5°	124.9	131.2	137.7	139.2	162.5	193.6	209.1	237.0	292.9	334.8	340.8
130°	129.0	135.9	142.7	144.4	165.6	193.9	208.0	232.9	282.6	319.8	325.4
132.5°	133.3	140.2	147.0	148.8	168.2	194.2	207.1	229.3	273.8	307.2	312.1
135°	139.7	145.9	152.2	153.7	171.0	194.0	205.5	224.1	261.4	289.3	293.6
137.5°	146.2	152.3	158.5	160.0	175.1	195.2	205.2	221.0	252.5	276.0	279.5
140°	151.5	157.2	162.9	164.4	177.7	195.4	204.2	217.8	245.0	265.4	268.7
142.5°	155.6	160.9	166.2	167.5	179.7	196.0	204.2	216.1	240.1	258.0	260.8
145°	162.0	166.6	171.2	172.3	182.5	196.0	202.8	212.5	232.1	246.8	248.9
147.5°	168.3	172.8	177.3	178.4	186.6	197.4	202.8	210.5	225.8	237.4	239.2
150°	172.4	176.5	180.6	181.6	188.7	198.1	202.8	209.3	222.3	232.0	233.5
152.5°	176.7	179.8	182.9	183.6	190.1	198.6	202.8	208.3	219.4	227.8	228.9
155°	183.1	185.4	187.7	188.2	193.1	199.6	202.8	207.2	216.0	222.6	223.4
157.5°	187.8	190.0	192.2	192.7	196.1	200.6	202.8	206.2	213.1	218.2	218.8
160°	191.0	192.7	194.4	194.8	197.5	201.1	202.8	205.7	211.6	216.0	216.3
162.5°	194.1	195.4	196.7	197.0	199.0	201.5	202.8	205.3	210.2	214.0	214.3
165°	197.6	198.7	199.9	200.1	201.1	202.3	202.8	204.6	208.1	210.8	211.1
167.5°	200.7	201.3	201.8	202.0	202.7	203.7	204.2	205.4	207.7	209.4	209.5
170°	202.8	203.4	203.9	204.0	204.1	204.2	204.2	205.4	207.7	209.4	209.4
172.5°	203.9	204.0	204.2	204.2	204.2	204.2	204.2	205.1	206.9	208.3	208.2
175°	205.5	205.5	205.5	205.5	205.0	204.5	204.2	204.7	205.9	206.8	206.8
177.5°	205.5	205.5	205.5	205.5	205.1	204.6	204.5	204.9	205.8	206.6	206.5
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1492.2	1488.0	1492.2	1489.4	1490.8	1486.7	1474.3	1470.1	1474.3	1478.4	1478.4
5°	1510.1	1507.3	1510.1	1510.1	1508.7	1505.9	1492.2	1489.4	1492.2	1493.5	1490.8
7.5°	1515.6	1511.4	1515.6	1512.8	1512.8	1510.1	1496.3	1493.5	1494.9	1499.1	1494.9
10°	1515.6	1511.4	1515.6	1514.2	1512.8	1510.1	1496.3	1490.8	1490.8	1494.9	1490.8
12.5°	1508.7	1505.9	1508.7	1505.9	1505.9	1503.2	1489.4	1483.9	1485.3	1486.7	1481.2
15°	1497.7	1493.5	1497.7	1494.9	1496.3	1492.2	1477.0	1471.5	1471.5	1474.3	1464.6
17.5°	1481.2	1475.7	1481.2	1479.8	1478.4	1475.7	1461.9	1456.4	1455.0	1456.4	1449.5
20°	1461.9	1457.8	1461.9	1460.5	1460.5	1455.0	1441.2	1434.4	1434.4	1434.4	1427.5
22.5°	1431.6	1427.5	1431.6	1434.4	1434.4	1433.0	1420.6	1411.0	1408.2	1408.2	1399.9
25°	1397.2	1393.1	1397.2	1397.2	1395.8	1397.2	1393.1	1387.6	1383.4	1379.3	1371.0
27.5°	1364.2	1361.4	1364.2	1361.4	1364.2	1360.0	1358.6	1357.3	1351.8	1347.6	1336.6
30°	1331.1	1328.4	1331.1	1328.4	1325.6	1322.9	1316.0	1313.2	1318.7	1316.0	1298.1
32.5°	1289.8	1287.1	1289.8	1289.8	1287.1	1287.1	1276.1	1271.9	1273.3	1281.6	1265.0
35°	1247.1	1243.0	1247.1	1245.8	1247.1	1243.0	1236.1	1234.8	1229.3	1238.9	1226.5
37.5°	1197.6	1193.5	1197.6	1197.6	1197.6	1200.3	1194.8	1190.7	1182.5	1194.8	1185.2
40°	1146.7	1141.2	1146.7	1145.3	1146.7	1149.4	1146.7	1143.9	1135.6	1145.3	1137.0
42.5°	1088.8	1087.5	1088.8	1090.2	1090.2	1095.7	1099.9	1094.4	1091.6	1084.7	1090.2
45°	1026.9	1024.1	1026.9	1029.7	1031.0	1033.8	1046.2	1046.2	1042.0	1031.0	1039.3
47.5°	960.8	953.9	960.8	969.1	969.1	973.2	985.6	995.2	988.4	974.6	978.7
50°	890.6	892.0	890.6	896.1	896.1	911.3	920.9	930.5	937.4	920.9	901.6
52.5°	821.8	820.4	821.8	825.9	831.4	838.3	854.8	864.5	875.5	865.8	835.6
55°	753.0	755.7	753.0	754.3	757.1	761.2	786.0	795.6	816.3	803.9	772.2
57.5°	684.1	680.0	684.1	686.9	688.3	692.4	713.0	730.9	743.3	744.7	706.2
60°	604.3	598.8	604.3	616.7	619.4	622.2	641.5	658.0	669.0	673.1	633.2
62.5°	534.1	524.5	534.1	542.4	547.9	554.7	568.5	593.3	602.9	604.3	547.9
65°	459.8	455.6	459.8	476.3	477.7	485.9	501.1	519.0	539.6	536.9	455.6
67.5°	392.3	392.3	392.3	403.3	411.6	415.7	435.0	443.2	469.4	472.2	379.9
70°	330.4	329.0	330.4	338.6	344.1	353.8	371.7	381.3	402.0	408.8	308.3
72.5°	271.2	269.8	271.2	278.1	283.6	291.8	307.0	318.0	335.9	344.1	239.5
75°	218.9	216.1	218.9	224.4	223.0	234.0	246.4	257.4	273.9	279.4	177.6
77.5°	167.9	167.9	167.9	173.4	173.4	184.5	190.0	203.7	213.4	221.6	130.8
80°	125.3	123.9	125.3	126.6	126.6	132.1	141.8	151.4	159.7	159.7	89.5
82.5°	88.1	85.3	88.1	88.1	88.1	90.9	96.4	99.1	104.6	108.7	56.4
85°	55.1	55.1	55.1	56.4	55.1	57.8	59.2	61.9	61.9	59.2	34.4
87.5°	35.8	34.4	35.8	34.4	34.4	33.0	33.0	33.0	31.7	30.3	19.3
90°	5.2	5.2	5.2	5.2	5.2	7.0	9.3	10.5	9.0	6.1	3.9
92.5°	20.9	16.8	20.9	25.1	26.2	37.1	51.7	59.0	51.8	37.4	26.6
95°	73.1	60.6	73.1	85.8	88.9	116.7	153.9	172.4	145.6	92.0	51.8
97.5°	175.3	151.2	175.3	199.3	205.3	222.9	246.3	258.1	213.4	124.0	56.9
100°	252.5	223.9	252.5	281.1	288.2	287.0	285.2	284.4	234.8	135.6	61.2
102.5°	328.5	304.0	328.5	353.0	359.2	336.7	306.8	291.8	241.5	141.0	65.5
105°	425.4	412.2	425.4	438.6	441.9	391.6	324.5	291.0	242.3	144.9	71.9
107.5°	488.9	492.1	488.9	485.7	484.9	414.8	321.3	274.5	231.5	145.6	81.2
110°	513.1	526.8	513.1	499.3	495.9	417.6	313.0	260.7	222.0	144.5	86.4



TEST NUMBER: P933964

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	515.2	536.3	515.2	494.1	488.9	408.6	301.6	248.1	213.6	144.5	92.8
115°	501.5	530.8	501.5	472.3	465.0	387.7	284.7	233.1	204.0	145.9	102.3
117.5°	472.6	505.0	472.6	440.1	432.1	362.3	269.3	222.8	198.0	148.6	111.5
120°	449.3	480.8	449.3	417.8	409.9	346.2	261.2	218.7	196.1	150.9	116.9
122.5°	426.5	457.6	426.5	395.5	387.7	330.3	253.7	215.5	195.0	154.0	123.2
125°	394.1	422.7	394.1	365.5	358.4	309.6	244.6	212.1	194.2	158.3	131.4
127.5°	365.0	389.1	365.0	340.8	334.8	292.9	237.0	209.1	193.6	162.5	139.2
130°	347.7	370.0	347.7	325.4	319.8	282.6	232.9	208.0	193.9	165.6	144.4
132.5°	332.1	352.1	332.1	312.1	307.2	273.8	229.3	207.1	194.2	168.2	148.8
135°	310.7	328.0	310.7	293.6	289.3	261.4	224.1	205.5	194.0	171.0	153.7
137.5°	293.7	307.7	293.7	279.5	276.0	252.5	221.0	205.2	195.2	175.1	160.0
140°	281.8	295.0	281.8	268.7	265.4	245.0	217.8	204.2	195.4	177.7	164.4
142.5°	272.1	283.5	272.1	260.8	258.0	240.1	216.1	204.2	196.0	179.7	167.5
145°	257.5	266.1	257.5	248.9	246.8	232.1	212.5	202.8	196.0	182.5	172.3
147.5°	246.3	253.4	246.3	239.2	237.4	225.8	210.5	202.8	197.4	186.6	178.4
150°	239.2	245.0	239.2	233.5	232.0	222.3	209.3	202.8	198.1	188.7	181.6
152.5°	233.2	237.6	233.2	228.9	227.8	219.4	208.3	202.8	198.6	190.1	183.6
155°	226.2	229.1	226.2	223.4	222.6	216.0	207.2	202.8	199.6	193.1	188.2
157.5°	220.8	222.8	220.8	218.8	218.2	213.1	206.2	202.8	200.6	196.1	192.7
160°	217.5	218.7	217.5	216.3	216.0	211.6	205.7	202.8	201.1	197.5	194.8
162.5°	215.4	216.5	215.4	214.3	214.0	210.2	205.3	202.8	201.5	199.0	197.0
165°	212.3	213.5	212.3	211.1	210.8	208.1	204.6	202.8	202.3	201.1	200.1
167.5°	210.1	210.5	210.1	209.5	209.4	207.7	205.4	204.2	203.7	202.7	202.0
170°	209.4	209.4	209.4	209.4	209.4	207.7	205.4	204.2	204.2	204.1	204.0
172.5°	207.8	207.4	207.8	208.2	208.3	206.9	205.1	204.2	204.2	204.2	204.2
175°	206.8	206.8	206.8	206.8	206.8	205.9	204.7	204.2	204.5	205.0	205.5
177.5°	205.9	205.5	205.9	206.5	206.6	205.8	204.9	204.5	204.6	205.1	205.5
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



TEST NUMBER: P933964

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1475.7	1467.4	1467.4	1453.6	1448.1	1444.0	1437.1	1416.5	1411.0	1405.4	1413.7
5°	1488.0	1472.9	1461.9	1437.1	1416.5	1408.2	1382.0	1332.5	1299.5	1274.7	1260.9
7.5°	1490.8	1471.5	1450.9	1412.3	1362.8	1340.8	1260.9	1170.1	1145.3	1123.3	1109.5
10°	1488.0	1466.0	1437.1	1379.3	1262.3	1223.7	1143.9	1084.7	1069.6	1065.4	1069.6
12.5°	1478.4	1457.8	1417.8	1321.5	1157.7	1131.5	1084.7	1050.3	1047.5	1054.4	1091.6
15°	1461.9	1442.6	1395.8	1244.4	1099.9	1080.6	1047.5	1035.2	1050.3	1098.5	1210.0
17.5°	1445.4	1423.3	1365.5	1168.7	1055.8	1042.0	1018.6	1043.4	1128.8	1193.5	1230.6
20°	1423.3	1397.2	1331.1	1113.6	1024.1	1011.8	1000.7	1112.2	1176.9	1200.3	1221.0
22.5°	1397.2	1369.7	1284.3	1075.1	991.1	981.5	988.4	1150.8	1176.9	1193.5	1211.4
25°	1362.8	1339.4	1229.3	1044.8	965.0	953.9	980.1	1146.7	1161.8	1165.9	1201.7
27.5°	1331.1	1300.8	1171.4	1017.3	933.3	929.2	987.0	1128.8	1139.8	1143.9	1182.5
30°	1292.6	1247.1	1106.7	988.4	900.3	898.9	988.4	1106.7	1104.0	1115.0	1153.5
32.5°	1252.7	1167.3	1033.8	952.6	868.6	867.2	978.7	1073.7	1071.0	1086.1	1115.0
35°	1215.5	1105.4	934.7	911.3	828.7	830.1	955.3	1035.2	1036.5	1050.3	1068.2
37.5°	1176.9	1051.7	825.9	865.8	790.1	790.1	923.7	999.4	996.6	1000.7	1025.5
40°	1131.5	967.7	729.6	806.7	754.3	750.2	885.1	960.8	951.2	949.8	984.2
42.5°	1083.3	875.5	658.0	728.2	713.0	707.5	838.3	914.0	896.1	900.3	944.3
45°	1031.0	850.7	602.9	615.3	670.4	666.2	787.4	860.3	848.0	859.0	904.4
47.5°	978.7	801.1	585.0	510.7	625.0	623.6	730.9	808.0	801.1	812.2	860.3
50°	907.1	746.1	583.7	437.7	574.0	579.5	663.5	757.1	757.1	766.7	817.7
52.5°	814.9	678.6	530.0	396.4	514.8	531.3	604.3	713.0	715.8	725.4	770.9
55°	730.9	608.4	491.4	364.8	444.6	480.4	546.5	667.6	673.1	682.8	724.1
57.5°	653.9	506.6	483.2	327.6	379.9	414.3	495.6	623.6	626.3	634.6	674.5
60°	571.3	366.2	443.2	287.7	323.5	349.6	448.8	571.3	580.9	586.4	620.8
62.5°	477.7	265.7	402.0	260.2	296.0	301.5	410.2	521.7	534.1	538.2	558.9
65°	340.0	223.0	341.4	236.8	267.0	268.4	368.9	470.8	481.8	488.7	503.8
67.5°	229.9	181.7	260.2	214.7	245.0	246.4	329.0	411.6	426.7	432.2	441.9
70°	159.7	121.1	192.7	191.3	220.2	223.0	286.3	357.9	371.7	375.8	381.3
72.5°	117.0	97.7	159.7	172.1	194.1	196.8	242.3	297.3	311.1	315.2	318.0
75°	89.5	103.2	129.4	150.0	165.2	166.6	198.2	242.3	251.9	254.7	256.0
77.5°	71.6	96.4	95.0	121.1	134.9	132.1	155.5	187.2	195.5	195.5	195.5
80°	53.7	75.7	71.6	86.7	99.1	96.4	111.5	133.5	136.3	139.0	137.7
82.5°	39.9	48.2	48.2	55.1	66.1	63.3	74.3	86.7	86.7	86.7	89.5
85°	24.8	27.5	22.0	28.9	37.2	35.8	41.3	46.8	48.2	48.2	45.4
87.5°	15.1	12.4	6.9	11.0	16.5	16.5	19.3	20.6	19.3	19.3	19.3
90°	3.6	2.5	1.4	2.5	3.6	3.9	6.1	9.0	10.5	9.3	7.0
92.5°	24.2	14.9	5.5	14.9	24.2	26.6	37.4	51.8	59.0	51.7	37.1
95°	47.5	30.4	13.2	30.4	47.5	51.8	92.0	145.6	172.4	153.9	116.7
97.5°	53.1	38.0	22.9	38.0	53.1	56.9	124.0	213.4	258.1	246.3	222.9
100°	57.8	44.0	30.4	44.0	57.8	61.2	135.6	234.8	284.4	285.2	287.0
102.5°	62.3	49.6	36.7	49.6	62.3	65.5	141.0	241.5	291.8	306.8	336.7
105°	69.1	58.3	47.4	58.3	69.1	71.9	144.9	242.3	291.0	324.5	391.6
107.5°	78.6	68.6	58.5	68.6	78.6	81.2	145.6	231.5	274.5	321.3	414.8
110°	84.2	75.1	65.9	75.1	84.2	86.4	144.5	222.0	260.7	313.0	417.6



TEST NUMBER: P933964

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	90.6	82.0	73.2	82.0	90.6	92.8	144.5	213.6	248.1	301.6	408.6
115°	100.3	92.3	84.2	92.3	100.3	102.3	145.9	204.0	233.1	284.7	387.7
117.5°	109.7	102.4	95.2	102.4	109.7	111.5	148.6	198.0	222.8	269.3	362.3
120°	115.2	108.4	101.5	108.4	115.2	116.9	150.9	196.1	218.7	261.2	346.2
122.5°	121.5	114.6	107.6	114.6	121.5	123.2	154.0	195.0	215.5	253.7	330.3
125°	129.9	123.5	117.2	123.5	129.9	131.4	158.3	194.2	212.1	244.6	309.6
127.5°	137.7	131.2	124.9	131.2	137.7	139.2	162.5	193.6	209.1	237.0	292.9
130°	142.7	135.9	129.0	135.9	142.7	144.4	165.6	193.9	208.0	232.9	282.6
132.5°	147.0	140.2	133.3	140.2	147.0	148.8	168.2	194.2	207.1	229.3	273.8
135°	152.2	145.9	139.7	145.9	152.2	153.7	171.0	194.0	205.5	224.1	261.4
137.5°	158.5	152.3	146.2	152.3	158.5	160.0	175.1	195.2	205.2	221.0	252.5
140°	162.9	157.2	151.5	157.2	162.9	164.4	177.7	195.4	204.2	217.8	245.0
142.5°	166.2	160.9	155.6	160.9	166.2	167.5	179.7	196.0	204.2	216.1	240.1
145°	171.2	166.6	162.0	166.6	171.2	172.3	182.5	196.0	202.8	212.5	232.1
147.5°	177.3	172.8	168.3	172.8	177.3	178.4	186.6	197.4	202.8	210.5	225.8
150°	180.6	176.5	172.4	176.5	180.6	181.6	188.7	198.1	202.8	209.3	222.3
152.5°	182.9	179.8	176.7	179.8	182.9	183.6	190.1	198.6	202.8	208.3	219.4
155°	187.7	185.4	183.1	185.4	187.7	188.2	193.1	199.6	202.8	207.2	216.0
157.5°	192.2	190.0	187.8	190.0	192.2	192.7	196.1	200.6	202.8	206.2	213.1
160°	194.4	192.7	191.0	192.7	194.4	194.8	197.5	201.1	202.8	205.7	211.6
162.5°	196.7	195.4	194.1	195.4	196.7	197.0	199.0	201.5	202.8	205.3	210.2
165°	199.9	198.7	197.6	198.7	199.9	200.1	201.1	202.3	202.8	204.6	208.1
167.5°	201.8	201.3	200.7	201.3	201.8	202.0	202.7	203.7	204.2	205.4	207.7
170°	203.9	203.4	202.8	203.4	203.9	204.0	204.1	204.2	204.2	205.4	207.7
172.5°	204.2	204.0	203.9	204.0	204.2	204.2	204.2	204.2	204.2	205.1	206.9
175°	205.5	205.5	205.5	205.5	205.5	205.5	205.0	204.5	204.2	204.7	205.9
177.5°	205.5	205.5	205.5	205.5	205.5	205.5	205.1	204.6	204.5	204.9	205.8
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



TEST NUMBER: P933964

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1404.1	1399.9	1405.4	1390.3	1405.4	1399.9	1404.1	1413.7	1405.4	1411.0	1416.5
5°	1232.0	1225.1	1203.1	1185.2	1203.1	1225.1	1232.0	1260.9	1274.7	1299.5	1332.5
7.5°	1101.2	1095.7	1090.2	1079.2	1090.2	1095.7	1101.2	1109.5	1123.3	1145.3	1170.1
10°	1072.3	1073.7	1082.0	1080.6	1082.0	1073.7	1072.3	1069.6	1065.4	1069.6	1084.7
12.5°	1146.7	1159.0	1204.5	1201.7	1204.5	1159.0	1146.7	1091.6	1054.4	1047.5	1050.3
15°	1232.0	1236.1	1245.8	1247.1	1245.8	1236.1	1232.0	1210.0	1098.5	1050.3	1035.2
17.5°	1240.3	1241.6	1248.5	1248.5	1248.5	1241.6	1240.3	1230.6	1193.5	1128.8	1043.4
20°	1233.4	1236.1	1249.9	1252.7	1249.9	1236.1	1233.4	1221.0	1200.3	1176.9	1112.2
22.5°	1230.6	1236.1	1247.1	1245.8	1247.1	1236.1	1230.6	1211.4	1193.5	1176.9	1150.8
25°	1216.9	1216.9	1218.2	1219.6	1218.2	1216.9	1216.9	1201.7	1165.9	1161.8	1146.7
27.5°	1188.0	1190.7	1199.0	1197.6	1199.0	1190.7	1188.0	1182.5	1143.9	1139.8	1128.8
30°	1161.8	1159.0	1152.2	1146.7	1152.2	1159.0	1161.8	1153.5	1115.0	1104.0	1106.7
32.5°	1117.8	1110.9	1104.0	1099.9	1104.0	1110.9	1117.8	1115.0	1086.1	1071.0	1073.7
35°	1065.4	1066.8	1065.4	1061.3	1065.4	1066.8	1065.4	1068.2	1050.3	1036.5	1035.2
37.5°	1028.3	1031.0	1029.7	1024.1	1029.7	1031.0	1028.3	1025.5	1000.7	996.6	999.4
40°	989.7	991.1	989.7	985.6	989.7	991.1	989.7	984.2	949.8	951.2	960.8
42.5°	952.6	951.2	947.1	944.3	947.1	951.2	952.6	944.3	900.3	896.1	914.0
45°	909.9	911.3	903.0	898.9	903.0	911.3	909.9	904.4	859.0	848.0	860.3
47.5°	867.2	867.2	860.3	856.2	860.3	867.2	867.2	860.3	812.2	801.1	808.0
50°	821.8	820.4	810.8	809.4	810.8	820.4	821.8	817.7	766.7	757.1	757.1
52.5°	769.5	769.5	770.9	773.6	770.9	769.5	769.5	770.9	725.4	715.8	713.0
55°	724.1	725.4	735.1	737.8	735.1	725.4	724.1	724.1	682.8	673.1	667.6
57.5°	677.3	677.3	684.1	684.1	684.1	677.3	677.3	674.5	634.6	626.3	623.6
60°	623.6	626.3	631.8	630.5	631.8	626.3	623.6	620.8	586.4	580.9	571.3
62.5°	567.1	569.9	571.3	568.5	571.3	569.9	567.1	558.9	538.2	534.1	521.7
65°	507.9	510.7	512.1	509.3	512.1	510.7	507.9	503.8	488.7	481.8	470.8
67.5°	447.4	446.0	444.6	450.1	444.6	446.0	447.4	441.9	432.2	426.7	411.6
70°	385.4	385.4	384.1	386.8	384.1	385.4	385.4	381.3	375.8	371.7	357.9
72.5°	319.4	318.0	323.5	319.4	323.5	318.0	319.4	318.0	315.2	311.1	297.3
75°	254.7	257.4	254.7	258.8	254.7	257.4	254.7	256.0	254.7	251.9	242.3
77.5°	194.1	196.8	194.1	194.1	194.1	196.8	194.1	195.5	195.5	195.5	187.2
80°	137.7	136.3	136.3	134.9	136.3	136.3	137.7	137.7	139.0	136.3	133.5
82.5°	88.1	86.7	86.7	89.5	86.7	86.7	88.1	89.5	86.7	86.7	86.7
85°	48.2	49.6	46.8	46.8	46.8	49.6	48.2	45.4	48.2	48.2	46.8
87.5°	17.9	16.5	16.5	16.5	16.5	16.5	17.9	19.3	19.3	19.3	20.6
90°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.0	9.3	10.5	9.0
92.5°	26.2	25.1	20.9	16.8	20.9	25.1	26.2	37.1	51.7	59.0	51.8
95°	88.9	85.8	73.1	60.6	73.1	85.8	88.9	116.7	153.9	172.4	145.6
97.5°	205.3	199.3	175.3	151.2	175.3	199.3	205.3	222.9	246.3	258.1	213.4
100°	288.2	281.1	252.5	223.9	252.5	281.1	288.2	287.0	285.2	284.4	234.8
102.5°	359.2	353.0	328.5	304.0	328.5	353.0	359.2	336.7	306.8	291.8	241.5
105°	441.9	438.6	425.4	412.2	425.4	438.6	441.9	391.6	324.5	291.0	242.3
107.5°	484.9	485.7	488.9	492.1	488.9	485.7	484.9	414.8	321.3	274.5	231.5
110°	495.9	499.3	513.1	526.8	513.1	499.3	495.9	417.6	313.0	260.7	222.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	488.9	494.1	515.2	536.3	515.2	494.1	488.9	408.6	301.6	248.1	213.6
115°	465.0	472.3	501.5	530.8	501.5	472.3	465.0	387.7	284.7	233.1	204.0
117.5°	432.1	440.1	472.6	505.0	472.6	440.1	432.1	362.3	269.3	222.8	198.0
120°	409.9	417.8	449.3	480.8	449.3	417.8	409.9	346.2	261.2	218.7	196.1
122.5°	387.7	395.5	426.5	457.6	426.5	395.5	387.7	330.3	253.7	215.5	195.0
125°	358.4	365.5	394.1	422.7	394.1	365.5	358.4	309.6	244.6	212.1	194.2
127.5°	334.8	340.8	365.0	389.1	365.0	340.8	334.8	292.9	237.0	209.1	193.6
130°	319.8	325.4	347.7	370.0	347.7	325.4	319.8	282.6	232.9	208.0	193.9
132.5°	307.2	312.1	332.1	352.1	332.1	312.1	307.2	273.8	229.3	207.1	194.2
135°	289.3	293.6	310.7	328.0	310.7	293.6	289.3	261.4	224.1	205.5	194.0
137.5°	276.0	279.5	293.7	307.7	293.7	279.5	276.0	252.5	221.0	205.2	195.2
140°	265.4	268.7	281.8	295.0	281.8	268.7	265.4	245.0	217.8	204.2	195.4
142.5°	258.0	260.8	272.1	283.5	272.1	260.8	258.0	240.1	216.1	204.2	196.0
145°	246.8	248.9	257.5	266.1	257.5	248.9	246.8	232.1	212.5	202.8	196.0
147.5°	237.4	239.2	246.3	253.4	246.3	239.2	237.4	225.8	210.5	202.8	197.4
150°	232.0	233.5	239.2	245.0	239.2	233.5	232.0	222.3	209.3	202.8	198.1
152.5°	227.8	228.9	233.2	237.6	233.2	228.9	227.8	219.4	208.3	202.8	198.6
155°	222.6	223.4	226.2	229.1	226.2	223.4	222.6	216.0	207.2	202.8	199.6
157.5°	218.2	218.8	220.8	222.8	220.8	218.8	218.2	213.1	206.2	202.8	200.6
160°	216.0	216.3	217.5	218.7	217.5	216.3	216.0	211.6	205.7	202.8	201.1
162.5°	214.0	214.3	215.4	216.5	215.4	214.3	214.0	210.2	205.3	202.8	201.5
165°	210.8	211.1	212.3	213.5	212.3	211.1	210.8	208.1	204.6	202.8	202.3
167.5°	209.4	209.5	210.1	210.5	210.1	209.5	209.4	207.7	205.4	204.2	203.7
170°	209.4	209.4	209.4	209.4	209.4	209.4	209.4	207.7	205.4	204.2	204.2
172.5°	208.3	208.2	207.8	207.4	207.8	208.2	208.3	206.9	205.1	204.2	204.2
175°	206.8	206.8	206.8	206.8	206.8	206.8	206.8	205.9	204.7	204.2	204.5
177.5°	206.6	206.5	205.9	205.5	205.9	206.5	206.6	205.8	204.9	204.5	204.6
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1437.1	1444.0	1448.1	1453.6	1467.4
5°	1382.0	1408.2	1416.5	1437.1	1461.9
7.5°	1260.9	1340.8	1362.8	1412.3	1450.9
10°	1143.9	1223.7	1262.3	1379.3	1437.1
12.5°	1084.7	1131.5	1157.7	1321.5	1417.8
15°	1047.5	1080.6	1099.9	1244.4	1395.8
17.5°	1018.6	1042.0	1055.8	1168.7	1365.5
20°	1000.7	1011.8	1024.1	1113.6	1331.1
22.5°	988.4	981.5	991.1	1075.1	1284.3
25°	980.1	953.9	965.0	1044.8	1229.3
27.5°	987.0	929.2	933.3	1017.3	1171.4
30°	988.4	898.9	900.3	988.4	1106.7
32.5°	978.7	867.2	868.6	952.6	1033.8
35°	955.3	830.1	828.7	911.3	934.7
37.5°	923.7	790.1	790.1	865.8	825.9
40°	885.1	750.2	754.3	806.7	729.6
42.5°	838.3	707.5	713.0	728.2	658.0
45°	787.4	666.2	670.4	615.3	602.9
47.5°	730.9	623.6	625.0	510.7	585.0
50°	663.5	579.5	574.0	437.7	583.7
52.5°	604.3	531.3	514.8	396.4	530.0
55°	546.5	480.4	444.6	364.8	491.4
57.5°	495.6	414.3	379.9	327.6	483.2
60°	448.8	349.6	323.5	287.7	443.2
62.5°	410.2	301.5	296.0	260.2	402.0
65°	368.9	268.4	267.0	236.8	341.4
67.5°	329.0	246.4	245.0	214.7	260.2
70°	286.3	223.0	220.2	191.3	192.7
72.5°	242.3	196.8	194.1	172.1	159.7
75°	198.2	166.6	165.2	150.0	129.4
77.5°	155.5	132.1	134.9	121.1	95.0
80°	111.5	96.4	99.1	86.7	71.6
82.5°	74.3	63.3	66.1	55.1	48.2
85°	41.3	35.8	37.2	28.9	22.0
87.5°	19.3	16.5	16.5	11.0	6.9
90°	6.1	3.9	3.6	2.5	1.4
92.5°	37.4	26.6	24.2	14.9	5.5
95°	92.0	51.8	47.5	30.4	13.2
97.5°	124.0	56.9	53.1	38.0	22.9
100°	135.6	61.2	57.8	44.0	30.4
102.5°	141.0	65.5	62.3	49.6	36.7
105°	144.9	71.9	69.1	58.3	47.4
107.5°	145.6	81.2	78.6	68.6	58.5
110°	144.5	86.4	84.2	75.1	65.9



TEST NUMBER: P933964

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	144.5	92.8	90.6	82.0	73.2
115°	145.9	102.3	100.3	92.3	84.2
117.5°	148.6	111.5	109.7	102.4	95.2
120°	150.9	116.9	115.2	108.4	101.5
122.5°	154.0	123.2	121.5	114.6	107.6
125°	158.3	131.4	129.9	123.5	117.2
127.5°	162.5	139.2	137.7	131.2	124.9
130°	165.6	144.4	142.7	135.9	129.0
132.5°	168.2	148.8	147.0	140.2	133.3
135°	171.0	153.7	152.2	145.9	139.7
137.5°	175.1	160.0	158.5	152.3	146.2
140°	177.7	164.4	162.9	157.2	151.5
142.5°	179.7	167.5	166.2	160.9	155.6
145°	182.5	172.3	171.2	166.6	162.0
147.5°	186.6	178.4	177.3	172.8	168.3
150°	188.7	181.6	180.6	176.5	172.4
152.5°	190.1	183.6	182.9	179.8	176.7
155°	193.1	188.2	187.7	185.4	183.1
157.5°	196.1	192.7	192.2	190.0	187.8
160°	197.5	194.8	194.4	192.7	191.0
162.5°	199.0	197.0	196.7	195.4	194.1
165°	201.1	200.1	199.9	198.7	197.6
167.5°	202.7	202.0	201.8	201.3	200.7
170°	204.1	204.0	203.9	203.4	202.8
172.5°	204.2	204.2	204.2	204.0	203.9
175°	205.0	205.5	205.5	205.5	205.5
177.5°	205.1	205.5	205.5	205.5	205.5
180°	205.5	205.5	205.5	205.5	205.5



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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	14.40	15.53	15.12	16.27	17.15	17.23	18.35	17.95	19.09	19.98
	3H	14.90	15.91	15.63	16.66	17.58	18.59	19.60	19.32	20.35	21.27
	4H	15.10	16.06	15.86	16.82	17.74	19.05	20.00	19.80	20.76	21.69
	6H	15.23	16.12	16.00	16.89	17.83	19.34	20.22	20.11	20.99	21.93
	8H	15.24	16.08	16.02	16.87	17.82	19.42	20.26	20.20	21.05	22.00
	12H	15.22	16.02	16.01	16.81	17.78	19.47	20.27	20.25	21.05	22.02
4H	2H	15.47	16.42	16.22	17.18	18.11	17.67	18.62	18.42	19.38	20.31
	3H	16.52	17.31	17.29	18.11	19.05	19.20	19.99	19.97	20.79	21.73
	4H	16.80	17.53	17.59	18.32	19.30	19.73	20.46	20.52	21.25	22.23
	6H	16.94	17.57	17.75	18.39	19.37	20.11	20.74	20.91	21.56	22.54
	8H	16.96	17.54	17.76	18.36	19.35	20.22	20.81	21.03	21.63	22.62
	12H	16.94	17.46	17.76	18.30	19.30	20.29	20.82	21.12	21.66	22.66
8H	4H	17.28	17.86	18.08	18.68	19.67	19.88	20.46	20.69	21.28	22.27
	6H	17.55	18.03	18.38	18.89	19.89	20.33	20.81	21.16	21.67	22.66
	8H	17.60	18.03	18.44	18.88	19.89	20.48	20.91	21.33	21.77	22.78
	12H	17.59	17.97	18.44	18.82	19.88	20.59	20.97	21.44	21.82	22.88
12H	4H	17.30	17.82	18.12	18.66	19.66	19.86	20.38	20.68	21.22	22.22
	6H	17.61	18.04	18.46	18.90	19.91	20.32	20.76	21.17	21.61	22.62
	8H	17.69	18.07	18.54	18.92	19.98	20.50	20.88	21.35	21.72	22.79