

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: P933939

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933939
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-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

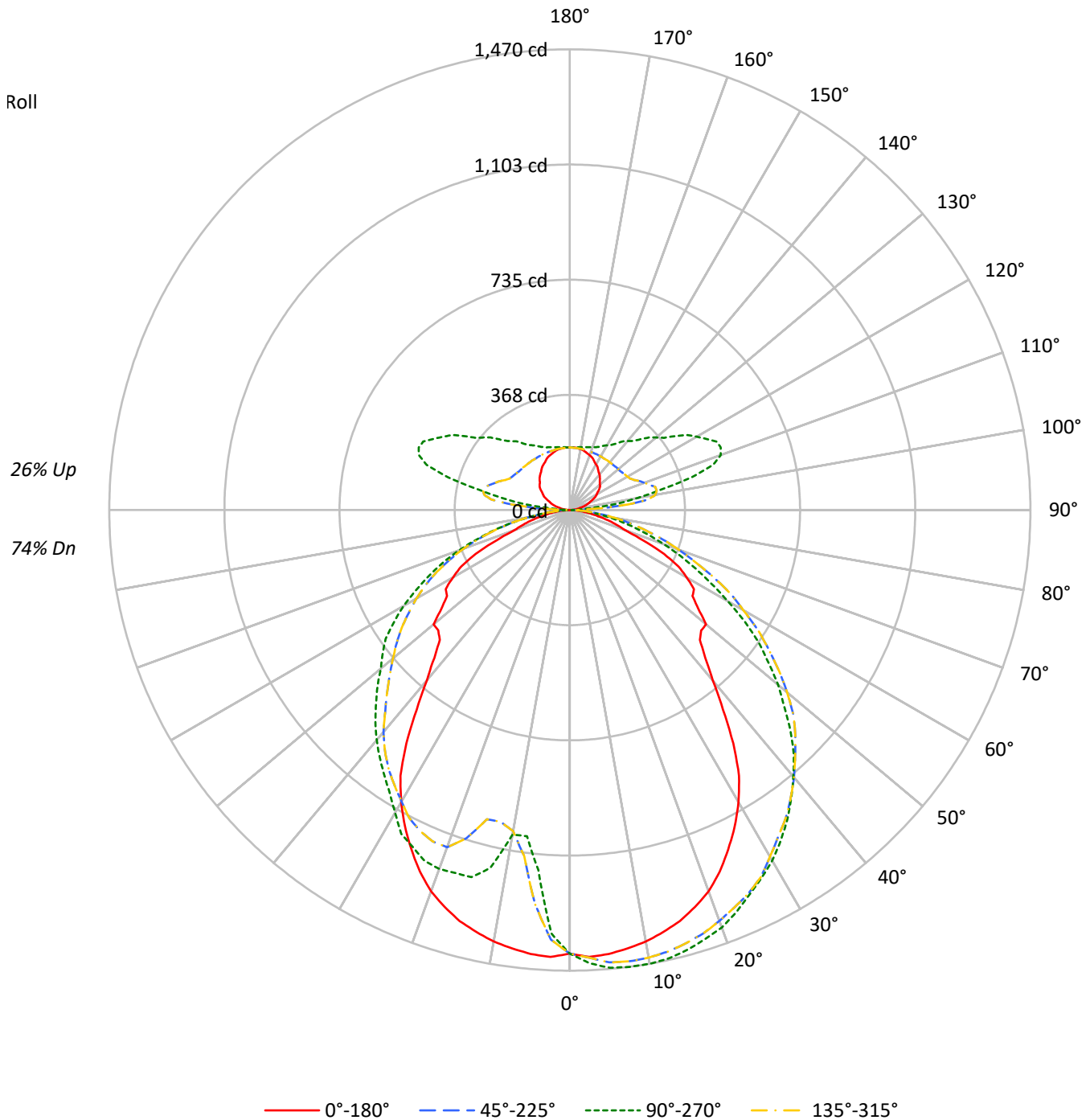
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4965.6 lumens
Efficiency: N/A
Efficacy: 110.3 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





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8755	8755	8755	8755
5°	8817	8838	8817	6949
10°	8755	8705	8755	6224
15°	8657	8517	8657	7112
20°	8472	8293	8472	7127
25°	8099	7968	8099	6976
30°	7616	7697	7616	6644
35°	6786	7355	6786	6280
40°	5651	6952	5651	6005
45°	5047	6481	5047	5688
50°	5357	5918	5357	5370
55°	5035	5312	5035	5186
60°	5184	4511	5184	4750
65°	4693	3730	4693	4169
70°	3243	2972	3243	3494
75°	2833	2197	2833	2631
80°	2265	1452	2265	1581
85°	1276	770	1276	654

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7740 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	2.6
10°-20°	362.7	7.3
20°-30°	560.7	11.3
30°-40°	669.4	13.5
40°-50°	673.3	13.6
50°-60°	585.8	11.8
60°-70°	415.4	8.4
70°-80°	219.7	4.4
80°-90°	55.5	1.1
90°-100°	97.4	2.0
100°-110°	256.1	5.2
110°-120°	265.5	5.3
120°-130°	213.0	4.3
130°-140°	167.1	3.4
140°-150°	128.3	2.6
150°-160°	92.4	1.9
160°-170°	56.5	1.1
170°-180°	19.1	0.4
0°-30°	1051.2	21.2
0°-40°	1720.5	34.6
0°-60°	2979.6	60.0
0°-90°	3670.3	73.9
90°-120°	619.0	12.5
90°-150°	1127.3	22.7
90°-180°	1295.0	26.1
0°-180°	4965.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1415	1415	1415	1415	1415	
5°	1422	1466	1422	1153	1422	135
15°	1358	1453	1358	1213	1358	382
25°	1196	1355	1196	1186	1196	549
35°	909	1209	909	1032	909	562
45°	586	996	586	874	586	470
55°	478	735	478	718	478	439
65°	332	443	332	495	332	317
75°	126	210	126	252	126	132
85°	21	54	21	46	21	29
90°	1	5	1	5	1	2
95°	13	59	13	59	13	14
105°	46	401	46	401	46	49
115°	82	516	82	516	82	81
125°	114	411	114	411	114	101
135°	136	319	136	319	136	105
145°	158	259	158	259	158	99
155°	178	223	178	223	178	82
165°	192	208	192	208	192	54
175°	200	201	200	201	200	19
180°	200	200	200	200	200	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1427.3	1427.3	1435.3	1438.0	1438.0	1434.0	1430.0	1434.0	1446.0	1450.1	1448.7
5°	1421.9	1432.7	1447.4	1450.1	1452.7	1451.4	1448.7	1451.4	1464.8	1467.5	1468.8
7.5°	1411.2	1431.3	1450.1	1454.1	1458.1	1454.1	1452.7	1455.4	1468.8	1471.5	1471.5
10°	1397.8	1426.0	1447.4	1450.1	1454.1	1450.1	1450.1	1455.4	1468.8	1471.5	1472.8
12.5°	1379.1	1417.9	1438.0	1440.7	1446.0	1444.7	1443.4	1448.7	1462.1	1464.8	1464.8
15°	1357.7	1403.2	1421.9	1424.6	1434.0	1431.3	1431.3	1436.7	1451.4	1455.4	1454.1
17.5°	1328.2	1384.5	1405.9	1409.9	1416.6	1415.2	1416.6	1421.9	1435.3	1438.0	1439.3
20°	1294.7	1359.0	1384.5	1388.5	1395.2	1395.2	1395.2	1401.9	1415.2	1420.6	1420.6
22.5°	1249.2	1332.2	1359.0	1361.7	1369.7	1369.7	1372.4	1381.8	1393.8	1395.2	1395.2
25°	1195.7	1302.8	1325.5	1333.6	1341.6	1345.6	1349.6	1355.0	1359.0	1357.7	1359.0
27.5°	1139.4	1265.3	1294.7	1300.1	1310.8	1314.8	1320.2	1321.5	1322.9	1326.9	1324.2
30°	1076.5	1213.1	1257.3	1262.6	1280.0	1282.7	1277.3	1280.0	1286.7	1289.4	1292.1
32.5°	1005.5	1135.4	1218.4	1230.5	1246.5	1238.5	1237.2	1241.2	1251.9	1251.9	1254.6
35°	909.1	1075.2	1182.3	1193.0	1205.0	1195.7	1201.0	1202.4	1209.1	1213.1	1211.7
37.5°	803.4	1022.9	1144.8	1152.8	1162.2	1150.1	1158.2	1162.2	1167.5	1164.9	1164.9
40°	709.6	941.3	1100.6	1106.0	1114.0	1104.6	1112.7	1115.3	1118.0	1115.3	1114.0
42.5°	640.0	851.6	1053.7	1060.4	1055.1	1061.8	1064.4	1069.8	1065.8	1060.4	1060.4
45°	586.5	827.5	1002.9	1010.9	1002.9	1013.6	1017.6	1017.6	1005.5	1002.9	1001.5
47.5°	569.0	779.3	952.0	952.0	948.0	961.4	968.0	958.7	946.6	942.6	942.6
50°	567.7	725.7	882.4	877.0	895.7	911.8	905.1	895.7	886.4	871.6	871.6
52.5°	515.5	660.1	792.6	812.7	842.2	851.6	840.8	831.5	815.4	808.7	803.4
55°	478.0	591.8	711.0	751.1	781.9	794.0	773.9	764.5	740.4	736.4	733.7
57.5°	470.0	492.7	636.0	686.9	724.4	723.0	711.0	693.6	673.5	669.5	668.1
60°	431.1	356.2	555.7	615.9	654.7	650.7	640.0	623.9	605.2	602.5	599.8
62.5°	391.0	258.4	464.6	532.9	587.8	586.5	577.1	553.0	539.6	532.9	527.5
65°	332.1	216.9	330.7	443.2	522.2	524.9	504.8	487.4	472.6	464.6	463.3
67.5°	253.1	176.7	223.6	369.5	459.3	456.6	431.1	423.1	404.4	400.3	392.3
70°	187.5	117.8	155.3	299.9	397.7	391.0	370.9	361.5	344.1	334.7	329.4
72.5°	155.3	95.1	113.8	233.0	334.7	326.7	309.3	298.6	283.9	275.8	270.5
75°	125.9	100.4	87.0	172.7	271.8	266.4	250.4	239.7	227.6	216.9	218.2
77.5°	92.4	93.7	69.6	127.2	215.6	207.5	198.2	184.8	179.4	168.7	168.7
80°	69.6	73.6	52.2	87.0	155.3	155.3	147.3	137.9	128.5	123.2	123.2
82.5°	46.9	46.9	38.8	54.9	105.8	101.8	96.4	93.7	88.4	85.7	85.7
85°	21.4	26.8	24.1	33.5	57.6	60.3	60.3	57.6	56.2	53.6	54.9
87.5°	6.7	12.1	14.7	18.7	29.5	30.8	32.1	32.1	32.1	33.5	33.5
90°	1.3	2.4	3.5	3.7	5.9	8.7	10.2	9.0	6.8	5.1	5.1
92.5°	5.4	14.5	23.6	25.9	36.4	50.4	57.4	50.3	36.1	25.4	24.5
95°	12.9	29.5	46.2	50.4	89.5	141.7	167.7	149.7	113.5	86.5	83.5
97.5°	22.2	37.0	51.7	55.3	120.6	207.5	251.0	239.6	216.8	199.7	193.9
100°	29.5	42.8	56.2	59.5	131.9	228.4	276.6	277.4	279.1	280.4	273.4
102.5°	35.7	48.2	60.6	63.7	137.1	234.9	283.9	298.4	327.5	349.4	343.4
105°	46.1	56.7	67.2	69.9	140.9	235.7	283.0	315.6	380.9	429.8	426.6
107.5°	56.9	66.7	76.5	79.0	141.7	225.2	267.0	312.5	403.5	471.7	472.5
110°	64.1	73.0	81.9	84.1	140.6	215.9	253.6	304.5	406.1	482.4	485.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	71.2	79.7	88.1	90.2	140.6	207.8	241.4	293.4	397.5	475.5	480.6
115°	81.9	89.8	97.6	99.5	141.9	198.4	226.7	276.9	377.1	452.3	459.4
117.5°	92.6	99.6	106.7	108.5	144.5	192.6	216.7	262.0	352.4	420.2	428.1
120°	98.7	105.4	112.0	113.7	146.7	190.8	212.7	254.0	336.7	398.7	406.4
122.5°	104.7	111.5	118.2	119.9	149.8	189.7	209.6	246.8	321.3	377.1	384.7
125°	114.0	120.1	126.3	127.8	154.0	188.9	206.3	237.9	301.2	348.6	355.5
127.5°	121.5	127.6	133.9	135.4	158.1	188.3	203.4	230.6	284.9	325.6	331.5
130°	125.5	132.2	138.8	140.5	161.1	188.6	202.4	226.5	274.8	311.1	316.5
132.5°	129.7	136.4	143.0	144.7	163.6	188.9	201.5	223.1	266.4	298.8	303.6
135°	135.9	141.9	148.0	149.5	166.3	188.7	199.9	218.0	254.2	281.4	285.5
137.5°	142.2	148.2	154.2	155.7	170.3	189.9	199.6	214.9	245.6	268.5	271.9
140°	147.4	152.9	158.4	159.9	172.8	190.0	198.6	211.8	238.3	258.1	261.4
142.5°	151.4	156.5	161.7	162.9	174.8	190.7	198.6	210.2	233.5	250.9	253.7
145°	157.5	162.0	166.5	167.6	177.5	190.7	197.3	206.7	225.7	240.0	242.1
147.5°	163.7	168.1	172.5	173.5	181.5	192.0	197.3	204.8	219.7	230.9	232.6
150°	167.7	171.7	175.7	176.6	183.5	192.7	197.3	203.6	216.2	225.7	227.1
152.5°	171.9	174.9	177.9	178.6	184.9	193.2	197.3	202.6	213.4	221.5	222.6
155°	178.1	180.3	182.5	183.1	187.8	194.1	197.3	201.6	210.1	216.5	217.3
157.5°	182.6	184.8	186.9	187.5	190.8	195.1	197.3	200.6	207.3	212.3	212.8
160°	185.8	187.5	189.1	189.5	192.1	195.6	197.3	200.1	205.8	210.1	210.4
162.5°	188.8	190.0	191.3	191.6	193.5	196.0	197.3	199.7	204.5	208.2	208.4
165°	192.2	193.3	194.4	194.7	195.6	196.7	197.3	199.0	202.4	205.0	205.3
167.5°	195.2	195.8	196.3	196.5	197.2	198.2	198.6	199.8	202.0	203.7	203.8
170°	197.3	197.8	198.3	198.4	198.5	198.6	198.6	199.8	202.0	203.7	203.7
172.5°	198.3	198.4	198.6	198.6	198.6	198.6	198.6	199.5	201.3	202.6	202.5
175°	199.9	199.9	199.9	199.9	199.4	198.9	198.6	199.1	200.3	201.2	201.2
177.5°	199.9	199.9	199.9	199.9	199.5	199.1	198.9	199.3	200.2	200.9	200.8
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1451.4	1447.4	1451.4	1448.7	1450.1	1446.0	1434.0	1430.0	1434.0	1438.0	1438.0
5°	1468.8	1466.1	1468.8	1468.8	1467.5	1464.8	1451.4	1448.7	1451.4	1452.7	1450.1
7.5°	1474.2	1470.1	1474.2	1471.5	1471.5	1468.8	1455.4	1452.7	1454.1	1458.1	1454.1
10°	1474.2	1470.1	1474.2	1472.8	1471.5	1468.8	1455.4	1450.1	1450.1	1454.1	1450.1
12.5°	1467.5	1464.8	1467.5	1464.8	1464.8	1462.1	1448.7	1443.4	1444.7	1446.0	1440.7
15°	1456.8	1452.7	1456.8	1454.1	1455.4	1451.4	1436.7	1431.3	1431.3	1434.0	1424.6
17.5°	1440.7	1435.3	1440.7	1439.3	1438.0	1435.3	1421.9	1416.6	1415.2	1416.6	1409.9
20°	1421.9	1417.9	1421.9	1420.6	1420.6	1415.2	1401.9	1395.2	1395.2	1395.2	1388.5
22.5°	1392.5	1388.5	1392.5	1395.2	1395.2	1393.8	1381.8	1372.4	1369.7	1369.7	1361.7
25°	1359.0	1355.0	1359.0	1359.0	1357.7	1359.0	1355.0	1349.6	1345.6	1341.6	1333.6
27.5°	1326.9	1324.2	1326.9	1324.2	1326.9	1322.9	1321.5	1320.2	1314.8	1310.8	1300.1
30°	1294.7	1292.1	1294.7	1292.1	1289.4	1286.7	1280.0	1277.3	1282.7	1280.0	1262.6
32.5°	1254.6	1251.9	1254.6	1254.6	1251.9	1251.9	1241.2	1237.2	1238.5	1246.5	1230.5
35°	1213.1	1209.1	1213.1	1211.7	1213.1	1209.1	1202.4	1201.0	1195.7	1205.0	1193.0
37.5°	1164.9	1160.9	1164.9	1164.9	1164.9	1167.5	1162.2	1158.2	1150.1	1162.2	1152.8
40°	1115.3	1110.0	1115.3	1114.0	1115.3	1118.0	1115.3	1112.7	1104.6	1114.0	1106.0
42.5°	1059.1	1057.8	1059.1	1060.4	1060.4	1065.8	1069.8	1064.4	1061.8	1055.1	1060.4
45°	998.8	996.2	998.8	1001.5	1002.9	1005.5	1017.6	1017.6	1013.6	1002.9	1010.9
47.5°	934.6	927.9	934.6	942.6	942.6	946.6	958.7	968.0	961.4	948.0	952.0
50°	866.3	867.6	866.3	871.6	871.6	886.4	895.7	905.1	911.8	895.7	877.0
52.5°	799.3	798.0	799.3	803.4	808.7	815.4	831.5	840.8	851.6	842.2	812.7
55°	732.4	735.1	732.4	733.7	736.4	740.4	764.5	773.9	794.0	781.9	751.1
57.5°	665.4	661.4	665.4	668.1	669.5	673.5	693.6	711.0	723.0	724.4	686.9
60°	587.8	582.4	587.8	599.8	602.5	605.2	623.9	640.0	650.7	654.7	615.9
62.5°	519.5	510.1	519.5	527.5	532.9	539.6	553.0	577.1	586.5	587.8	532.9
65°	447.2	443.2	447.2	463.3	464.6	472.6	487.4	504.8	524.9	522.2	443.2
67.5°	381.6	381.6	381.6	392.3	400.3	404.4	423.1	431.1	456.6	459.3	369.5
70°	321.3	320.0	321.3	329.4	334.7	344.1	361.5	370.9	391.0	397.7	299.9
72.5°	263.8	262.4	263.8	270.5	275.8	283.9	298.6	309.3	326.7	334.7	233.0
75°	212.9	210.2	212.9	218.2	216.9	227.6	239.7	250.4	266.4	271.8	172.7
77.5°	163.3	163.3	163.3	168.7	168.7	179.4	184.8	198.2	207.5	215.6	127.2
80°	121.8	120.5	121.8	123.2	123.2	128.5	137.9	147.3	155.3	155.3	87.0
82.5°	85.7	83.0	85.7	85.7	85.7	88.4	93.7	96.4	101.8	105.8	54.9
85°	53.6	53.6	53.6	54.9	53.6	56.2	57.6	60.3	60.3	57.6	33.5
87.5°	34.8	33.5	34.8	33.5	33.5	32.1	32.1	32.1	30.8	29.5	18.7
90°	5.1	5.1	5.1	5.1	5.1	6.8	9.0	10.2	8.7	5.9	3.7
92.5°	20.4	16.3	20.4	24.5	25.4	36.1	50.3	57.4	50.4	36.4	25.9
95°	71.1	58.9	71.1	83.5	86.5	113.5	149.7	167.7	141.7	89.5	50.4
97.5°	170.5	147.1	170.5	193.9	199.7	216.8	239.6	251.0	207.5	120.6	55.3
100°	245.6	217.8	245.6	273.4	280.4	279.1	277.4	276.6	228.4	131.9	59.5
102.5°	319.6	295.7	319.6	343.4	349.4	327.5	298.4	283.9	234.9	137.1	63.7
105°	413.8	401.0	413.8	426.6	429.8	380.9	315.6	283.0	235.7	140.9	69.9
107.5°	475.5	478.6	475.5	472.5	471.7	403.5	312.5	267.0	225.2	141.7	79.0
110°	499.1	512.5	499.1	485.7	482.4	406.1	304.5	253.6	215.9	140.6	84.1



TEST NUMBER: P933939

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	501.1	521.6	501.1	480.6	475.5	397.5	293.4	241.4	207.8	140.6	90.2
115°	487.8	516.3	487.8	459.4	452.3	377.1	276.9	226.7	198.4	141.9	99.5
117.5°	459.7	491.2	459.7	428.1	420.2	352.4	262.0	216.7	192.6	144.5	108.5
120°	437.0	467.6	437.0	406.4	398.7	336.7	254.0	212.7	190.8	146.7	113.7
122.5°	414.9	445.1	414.9	384.7	377.1	321.3	246.8	209.6	189.7	149.8	119.9
125°	383.3	411.1	383.3	355.5	348.6	301.2	237.9	206.3	188.9	154.0	127.8
127.5°	355.0	378.5	355.0	331.5	325.6	284.9	230.6	203.4	188.3	158.1	135.4
130°	338.2	359.9	338.2	316.5	311.1	274.8	226.5	202.4	188.6	161.1	140.5
132.5°	323.0	342.5	323.0	303.6	298.8	266.4	223.1	201.5	188.9	163.6	144.7
135°	302.2	319.0	302.2	285.5	281.4	254.2	218.0	199.9	188.7	166.3	149.5
137.5°	285.6	299.3	285.6	271.9	268.5	245.6	214.9	199.6	189.9	170.3	155.7
140°	274.1	287.0	274.1	261.4	258.1	238.3	211.8	198.6	190.0	172.8	159.9
142.5°	264.7	275.7	264.7	253.7	250.9	233.5	210.2	198.6	190.7	174.8	162.9
145°	250.5	258.9	250.5	242.1	240.0	225.7	206.7	197.3	190.7	177.5	167.6
147.5°	239.6	246.5	239.6	232.6	230.9	219.7	204.8	197.3	192.0	181.5	173.5
150°	232.7	238.3	232.7	227.1	225.7	216.2	203.6	197.3	192.7	183.5	176.6
152.5°	226.8	231.1	226.8	222.6	221.5	213.4	202.6	197.3	193.2	184.9	178.6
155°	220.0	222.9	220.0	217.3	216.5	210.1	201.6	197.3	194.1	187.8	183.1
157.5°	214.8	216.7	214.8	212.8	212.3	207.3	200.6	197.3	195.1	190.8	187.5
160°	211.6	212.7	211.6	210.4	210.1	205.8	200.1	197.3	195.6	192.1	189.5
162.5°	209.5	210.6	209.5	208.4	208.2	204.5	199.7	197.3	196.0	193.5	191.6
165°	206.5	207.6	206.5	205.3	205.0	202.4	199.0	197.3	196.7	195.6	194.7
167.5°	204.3	204.8	204.3	203.8	203.7	202.0	199.8	198.6	198.2	197.2	196.5
170°	203.7	203.7	203.7	203.7	203.7	202.0	199.8	198.6	198.6	198.5	198.4
172.5°	202.1	201.7	202.1	202.5	202.6	201.3	199.5	198.6	198.6	198.6	198.6
175°	201.2	201.2	201.2	201.2	201.2	200.3	199.1	198.6	198.9	199.4	199.9
177.5°	200.3	199.9	200.3	200.8	200.9	200.2	199.3	198.9	199.1	199.5	199.9
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



TEST NUMBER: P933939

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1435.3	1427.3	1427.3	1413.9	1408.6	1404.5	1397.8	1377.8	1372.4	1367.0	1375.1
5°	1447.4	1432.7	1421.9	1397.8	1377.8	1369.7	1344.3	1296.1	1263.9	1239.8	1226.5
7.5°	1450.1	1431.3	1411.2	1373.7	1325.5	1304.1	1226.5	1138.1	1114.0	1092.6	1079.2
10°	1447.4	1426.0	1397.8	1341.6	1227.8	1190.3	1112.7	1055.1	1040.3	1036.3	1040.3
12.5°	1438.0	1417.9	1379.1	1285.4	1126.0	1100.6	1055.1	1021.6	1018.9	1025.6	1061.8
15°	1421.9	1403.2	1357.7	1210.4	1069.8	1051.1	1018.9	1006.9	1021.6	1068.5	1176.9
17.5°	1405.9	1384.5	1328.2	1136.8	1027.0	1013.6	990.8	1014.9	1097.9	1160.9	1197.0
20°	1384.5	1359.0	1294.7	1083.2	996.2	984.1	973.4	1081.9	1144.8	1167.5	1187.6
22.5°	1359.0	1332.2	1249.2	1045.7	964.0	954.7	961.4	1119.3	1144.8	1160.9	1178.3
25°	1325.5	1302.8	1195.7	1016.2	938.6	927.9	953.3	1115.3	1130.1	1134.1	1168.9
27.5°	1294.7	1265.3	1139.4	989.5	907.8	903.8	960.0	1097.9	1108.6	1112.7	1150.1
30°	1257.3	1213.1	1076.5	961.4	875.7	874.3	961.4	1076.5	1073.8	1084.5	1122.0
32.5°	1218.4	1135.4	1005.5	926.5	844.9	843.5	952.0	1044.4	1041.7	1056.4	1084.5
35°	1182.3	1075.2	909.1	886.4	806.0	807.4	929.2	1006.9	1008.2	1021.6	1039.0
37.5°	1144.8	1022.9	803.4	842.2	768.5	768.5	898.4	972.1	969.4	973.4	997.5
40°	1100.6	941.3	709.6	784.6	733.7	729.7	860.9	934.6	925.2	923.9	957.3
42.5°	1053.7	851.6	640.0	708.3	693.6	688.2	815.4	889.0	871.6	875.7	918.5
45°	1002.9	827.5	586.5	598.5	652.1	648.0	765.9	836.8	824.8	835.5	879.7
47.5°	952.0	779.3	569.0	496.7	607.9	606.5	711.0	786.0	779.3	790.0	836.8
50°	882.4	725.7	567.7	425.8	558.3	563.7	645.4	736.4	736.4	745.8	795.3
52.5°	792.6	660.1	515.5	385.6	500.8	516.8	587.8	693.6	696.2	705.6	749.8
55°	711.0	591.8	478.0	354.8	432.5	467.3	531.6	649.4	654.7	664.1	704.3
57.5°	636.0	492.7	470.0	318.7	369.5	403.0	482.0	606.5	609.2	617.2	656.1
60°	555.7	356.2	431.1	279.8	314.6	340.1	436.5	555.7	565.0	570.4	603.9
62.5°	464.6	258.4	391.0	253.1	287.9	293.2	399.0	507.5	519.5	523.5	543.6
65°	330.7	216.9	332.1	230.3	259.8	261.1	358.8	457.9	468.6	475.3	490.0
67.5°	223.6	176.7	253.1	208.9	238.3	239.7	320.0	400.3	415.1	420.4	429.8
70°	155.3	117.8	187.5	186.1	214.2	216.9	278.5	348.1	361.5	365.5	370.9
72.5°	113.8	95.1	155.3	167.4	188.8	191.5	235.7	289.2	302.6	306.6	309.3
75°	87.0	100.4	125.9	145.9	160.7	162.0	192.8	235.7	245.0	247.7	249.0
77.5°	69.6	93.7	92.4	117.8	131.2	128.5	151.3	182.1	190.1	190.1	190.1
80°	52.2	73.6	69.6	84.4	96.4	93.7	108.5	129.9	132.6	135.2	133.9
82.5°	38.8	46.9	46.9	53.6	64.3	61.6	72.3	84.4	84.4	84.4	87.0
85°	24.1	26.8	21.4	28.1	36.2	34.8	40.2	45.5	46.9	46.9	44.2
87.5°	14.7	12.1	6.7	10.7	16.1	16.1	18.7	20.1	18.7	18.7	18.7
90°	3.5	2.4	1.3	2.4	3.5	3.7	5.9	8.7	10.2	9.0	6.8
92.5°	23.6	14.5	5.4	14.5	23.6	25.9	36.4	50.4	57.4	50.3	36.1
95°	46.2	29.5	12.9	29.5	46.2	50.4	89.5	141.7	167.7	149.7	113.5
97.5°	51.7	37.0	22.2	37.0	51.7	55.3	120.6	207.5	251.0	239.6	216.8
100°	56.2	42.8	29.5	42.8	56.2	59.5	131.9	228.4	276.6	277.4	279.1
102.5°	60.6	48.2	35.7	48.2	60.6	63.7	137.1	234.9	283.9	298.4	327.5
105°	67.2	56.7	46.1	56.7	67.2	69.9	140.9	235.7	283.0	315.6	380.9
107.5°	76.5	66.7	56.9	66.7	76.5	79.0	141.7	225.2	267.0	312.5	403.5
110°	81.9	73.0	64.1	73.0	81.9	84.1	140.6	215.9	253.6	304.5	406.1



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CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	88.1	79.7	71.2	79.7	88.1	90.2	140.6	207.8	241.4	293.4	397.5
115°	97.6	89.8	81.9	89.8	97.6	99.5	141.9	198.4	226.7	276.9	377.1
117.5°	106.7	99.6	92.6	99.6	106.7	108.5	144.5	192.6	216.7	262.0	352.4
120°	112.0	105.4	98.7	105.4	112.0	113.7	146.7	190.8	212.7	254.0	336.7
122.5°	118.2	111.5	104.7	111.5	118.2	119.9	149.8	189.7	209.6	246.8	321.3
125°	126.3	120.1	114.0	120.1	126.3	127.8	154.0	188.9	206.3	237.9	301.2
127.5°	133.9	127.6	121.5	127.6	133.9	135.4	158.1	188.3	203.4	230.6	284.9
130°	138.8	132.2	125.5	132.2	138.8	140.5	161.1	188.6	202.4	226.5	274.8
132.5°	143.0	136.4	129.7	136.4	143.0	144.7	163.6	188.9	201.5	223.1	266.4
135°	148.0	141.9	135.9	141.9	148.0	149.5	166.3	188.7	199.9	218.0	254.2
137.5°	154.2	148.2	142.2	148.2	154.2	155.7	170.3	189.9	199.6	214.9	245.6
140°	158.4	152.9	147.4	152.9	158.4	159.9	172.8	190.0	198.6	211.8	238.3
142.5°	161.7	156.5	151.4	156.5	161.7	162.9	174.8	190.7	198.6	210.2	233.5
145°	166.5	162.0	157.5	162.0	166.5	167.6	177.5	190.7	197.3	206.7	225.7
147.5°	172.5	168.1	163.7	168.1	172.5	173.5	181.5	192.0	197.3	204.8	219.7
150°	175.7	171.7	167.7	171.7	175.7	176.6	183.5	192.7	197.3	203.6	216.2
152.5°	177.9	174.9	171.9	174.9	177.9	178.6	184.9	193.2	197.3	202.6	213.4
155°	182.5	180.3	178.1	180.3	182.5	183.1	187.8	194.1	197.3	201.6	210.1
157.5°	186.9	184.8	182.6	184.8	186.9	187.5	190.8	195.1	197.3	200.6	207.3
160°	189.1	187.5	185.8	187.5	189.1	189.5	192.1	195.6	197.3	200.1	205.8
162.5°	191.3	190.0	188.8	190.0	191.3	191.6	193.5	196.0	197.3	199.7	204.5
165°	194.4	193.3	192.2	193.3	194.4	194.7	195.6	196.7	197.3	199.0	202.4
167.5°	196.3	195.8	195.2	195.8	196.3	196.5	197.2	198.2	198.6	199.8	202.0
170°	198.3	197.8	197.3	197.8	198.3	198.4	198.5	198.6	198.6	199.8	202.0
172.5°	198.6	198.4	198.3	198.4	198.6	198.6	198.6	198.6	198.6	199.5	201.3
175°	199.9	199.9	199.9	199.9	199.9	199.9	199.4	198.9	198.6	199.1	200.3
177.5°	199.9	199.9	199.9	199.9	199.9	199.9	199.5	199.1	198.9	199.3	200.2
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



TEST NUMBER: P933939

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1365.7	1361.7	1367.0	1352.3	1367.0	1361.7	1365.7	1375.1	1367.0	1372.4	1377.8
5°	1198.3	1191.6	1170.2	1152.8	1170.2	1191.6	1198.3	1226.5	1239.8	1263.9	1296.1
7.5°	1071.1	1065.8	1060.4	1049.7	1060.4	1065.8	1071.1	1079.2	1092.6	1114.0	1138.1
10°	1043.0	1044.4	1052.4	1051.1	1052.4	1044.4	1043.0	1040.3	1036.3	1040.3	1055.1
12.5°	1115.3	1127.4	1171.6	1168.9	1171.6	1127.4	1115.3	1061.8	1025.6	1018.9	1021.6
15°	1198.3	1202.4	1211.7	1213.1	1211.7	1202.4	1198.3	1176.9	1068.5	1021.6	1006.9
17.5°	1206.4	1207.7	1214.4	1214.4	1214.4	1207.7	1206.4	1197.0	1160.9	1097.9	1014.9
20°	1199.7	1202.4	1215.7	1218.4	1215.7	1202.4	1199.7	1187.6	1167.5	1144.8	1081.9
22.5°	1197.0	1202.4	1213.1	1211.7	1213.1	1202.4	1197.0	1178.3	1160.9	1144.8	1119.3
25°	1183.6	1183.6	1185.0	1186.3	1185.0	1183.6	1183.6	1168.9	1134.1	1130.1	1115.3
27.5°	1155.5	1158.2	1166.2	1164.9	1166.2	1158.2	1155.5	1150.1	1112.7	1108.6	1097.9
30°	1130.1	1127.4	1120.7	1115.3	1120.7	1127.4	1130.1	1122.0	1084.5	1073.8	1076.5
32.5°	1087.2	1080.5	1073.8	1069.8	1073.8	1080.5	1087.2	1084.5	1056.4	1041.7	1044.4
35°	1036.3	1037.7	1036.3	1032.3	1036.3	1037.7	1036.3	1039.0	1021.6	1008.2	1006.9
37.5°	1000.2	1002.9	1001.5	996.2	1001.5	1002.9	1000.2	997.5	973.4	969.4	972.1
40°	962.7	964.0	962.7	958.7	962.7	964.0	962.7	957.3	923.9	925.2	934.6
42.5°	926.5	925.2	921.2	918.5	921.2	925.2	926.5	918.5	875.7	871.6	889.0
45°	885.0	886.4	878.3	874.3	878.3	886.4	885.0	879.7	835.5	824.8	836.8
47.5°	843.5	843.5	836.8	832.8	836.8	843.5	843.5	836.8	790.0	779.3	786.0
50°	799.3	798.0	788.6	787.3	788.6	798.0	799.3	795.3	745.8	736.4	736.4
52.5°	748.5	748.5	749.8	752.5	749.8	748.5	748.5	749.8	705.6	696.2	693.6
55°	704.3	705.6	715.0	717.7	715.0	705.6	704.3	704.3	664.1	654.7	649.4
57.5°	658.8	658.8	665.4	665.4	665.4	658.8	658.8	656.1	617.2	609.2	606.5
60°	606.5	609.2	614.6	613.2	614.6	609.2	606.5	603.9	570.4	565.0	555.7
62.5°	551.6	554.3	555.7	553.0	555.7	554.3	551.6	543.6	523.5	519.5	507.5
65°	494.1	496.7	498.1	495.4	498.1	496.7	494.1	490.0	475.3	468.6	457.9
67.5°	435.2	433.8	432.5	437.8	432.5	433.8	435.2	429.8	420.4	415.1	400.3
70°	374.9	374.9	373.6	376.2	373.6	374.9	374.9	370.9	365.5	361.5	348.1
72.5°	310.6	309.3	314.6	310.6	314.6	309.3	310.6	309.3	306.6	302.6	289.2
75°	247.7	250.4	247.7	251.7	247.7	250.4	247.7	249.0	247.7	245.0	235.7
77.5°	188.8	191.5	188.8	188.8	188.8	191.5	188.8	190.1	190.1	190.1	182.1
80°	133.9	132.6	132.6	131.2	132.6	132.6	133.9	133.9	135.2	132.6	129.9
82.5°	85.7	84.4	84.4	87.0	84.4	84.4	85.7	87.0	84.4	84.4	84.4
85°	46.9	48.2	45.5	45.5	45.5	48.2	46.9	44.2	46.9	46.9	45.5
87.5°	17.4	16.1	16.1	16.1	16.1	16.1	17.4	18.7	18.7	18.7	20.1
90°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8	9.0	10.2	8.7
92.5°	25.4	24.5	20.4	16.3	20.4	24.5	25.4	36.1	50.3	57.4	50.4
95°	86.5	83.5	71.1	58.9	71.1	83.5	86.5	113.5	149.7	167.7	141.7
97.5°	199.7	193.9	170.5	147.1	170.5	193.9	199.7	216.8	239.6	251.0	207.5
100°	280.4	273.4	245.6	217.8	245.6	273.4	280.4	279.1	277.4	276.6	228.4
102.5°	349.4	343.4	319.6	295.7	319.6	343.4	349.4	327.5	298.4	283.9	234.9
105°	429.8	426.6	413.8	401.0	413.8	426.6	429.8	380.9	315.6	283.0	235.7
107.5°	471.7	472.5	475.5	478.6	475.5	472.5	471.7	403.5	312.5	267.0	225.2
110°	482.4	485.7	499.1	512.5	499.1	485.7	482.4	406.1	304.5	253.6	215.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	475.5	480.6	501.1	521.6	501.1	480.6	475.5	397.5	293.4	241.4	207.8
115°	452.3	459.4	487.8	516.3	487.8	459.4	452.3	377.1	276.9	226.7	198.4
117.5°	420.2	428.1	459.7	491.2	459.7	428.1	420.2	352.4	262.0	216.7	192.6
120°	398.7	406.4	437.0	467.6	437.0	406.4	398.7	336.7	254.0	212.7	190.8
122.5°	377.1	384.7	414.9	445.1	414.9	384.7	377.1	321.3	246.8	209.6	189.7
125°	348.6	355.5	383.3	411.1	383.3	355.5	348.6	301.2	237.9	206.3	188.9
127.5°	325.6	331.5	355.0	378.5	355.0	331.5	325.6	284.9	230.6	203.4	188.3
130°	311.1	316.5	338.2	359.9	338.2	316.5	311.1	274.8	226.5	202.4	188.6
132.5°	298.8	303.6	323.0	342.5	323.0	303.6	298.8	266.4	223.1	201.5	188.9
135°	281.4	285.5	302.2	319.0	302.2	285.5	281.4	254.2	218.0	199.9	188.7
137.5°	268.5	271.9	285.6	299.3	285.6	271.9	268.5	245.6	214.9	199.6	189.9
140°	258.1	261.4	274.1	287.0	274.1	261.4	258.1	238.3	211.8	198.6	190.0
142.5°	250.9	253.7	264.7	275.7	264.7	253.7	250.9	233.5	210.2	198.6	190.7
145°	240.0	242.1	250.5	258.9	250.5	242.1	240.0	225.7	206.7	197.3	190.7
147.5°	230.9	232.6	239.6	246.5	239.6	232.6	230.9	219.7	204.8	197.3	192.0
150°	225.7	227.1	232.7	238.3	232.7	227.1	225.7	216.2	203.6	197.3	192.7
152.5°	221.5	222.6	226.8	231.1	226.8	222.6	221.5	213.4	202.6	197.3	193.2
155°	216.5	217.3	220.0	222.9	220.0	217.3	216.5	210.1	201.6	197.3	194.1
157.5°	212.3	212.8	214.8	216.7	214.8	212.8	212.3	207.3	200.6	197.3	195.1
160°	210.1	210.4	211.6	212.7	211.6	210.4	210.1	205.8	200.1	197.3	195.6
162.5°	208.2	208.4	209.5	210.6	209.5	208.4	208.2	204.5	199.7	197.3	196.0
165°	205.0	205.3	206.5	207.6	206.5	205.3	205.0	202.4	199.0	197.3	196.7
167.5°	203.7	203.8	204.3	204.8	204.3	203.8	203.7	202.0	199.8	198.6	198.2
170°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	202.0	199.8	198.6	198.6
172.5°	202.6	202.5	202.1	201.7	202.1	202.5	202.6	201.3	199.5	198.6	198.6
175°	201.2	201.2	201.2	201.2	201.2	201.2	201.2	200.3	199.1	198.6	198.9
177.5°	200.9	200.8	200.3	199.9	200.3	200.8	200.9	200.2	199.3	198.9	199.1
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1397.8	1404.5	1408.6	1413.9	1427.3
5°	1344.3	1369.7	1377.8	1397.8	1421.9
7.5°	1226.5	1304.1	1325.5	1373.7	1411.2
10°	1112.7	1190.3	1227.8	1341.6	1397.8
12.5°	1055.1	1100.6	1126.0	1285.4	1379.1
15°	1018.9	1051.1	1069.8	1210.4	1357.7
17.5°	990.8	1013.6	1027.0	1136.8	1328.2
20°	973.4	984.1	996.2	1083.2	1294.7
22.5°	961.4	954.7	964.0	1045.7	1249.2
25°	953.3	927.9	938.6	1016.2	1195.7
27.5°	960.0	903.8	907.8	989.5	1139.4
30°	961.4	874.3	875.7	961.4	1076.5
32.5°	952.0	843.5	844.9	926.5	1005.5
35°	929.2	807.4	806.0	886.4	909.1
37.5°	898.4	768.5	768.5	842.2	803.4
40°	860.9	729.7	733.7	784.6	709.6
42.5°	815.4	688.2	693.6	708.3	640.0
45°	765.9	648.0	652.1	598.5	586.5
47.5°	711.0	606.5	607.9	496.7	569.0
50°	645.4	563.7	558.3	425.8	567.7
52.5°	587.8	516.8	500.8	385.6	515.5
55°	531.6	467.3	432.5	354.8	478.0
57.5°	482.0	403.0	369.5	318.7	470.0
60°	436.5	340.1	314.6	279.8	431.1
62.5°	399.0	293.2	287.9	253.1	391.0
65°	358.8	261.1	259.8	230.3	332.1
67.5°	320.0	239.7	238.3	208.9	253.1
70°	278.5	216.9	214.2	186.1	187.5
72.5°	235.7	191.5	188.8	167.4	155.3
75°	192.8	162.0	160.7	145.9	125.9
77.5°	151.3	128.5	131.2	117.8	92.4
80°	108.5	93.7	96.4	84.4	69.6
82.5°	72.3	61.6	64.3	53.6	46.9
85°	40.2	34.8	36.2	28.1	21.4
87.5°	18.7	16.1	16.1	10.7	6.7
90°	5.9	3.7	3.5	2.4	1.3
92.5°	36.4	25.9	23.6	14.5	5.4
95°	89.5	50.4	46.2	29.5	12.9
97.5°	120.6	55.3	51.7	37.0	22.2
100°	131.9	59.5	56.2	42.8	29.5
102.5°	137.1	63.7	60.6	48.2	35.7
105°	140.9	69.9	67.2	56.7	46.1
107.5°	141.7	79.0	76.5	66.7	56.9
110°	140.6	84.1	81.9	73.0	64.1



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CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	140.6	90.2	88.1	79.7	71.2
115°	141.9	99.5	97.6	89.8	81.9
117.5°	144.5	108.5	106.7	99.6	92.6
120°	146.7	113.7	112.0	105.4	98.7
122.5°	149.8	119.9	118.2	111.5	104.7
125°	154.0	127.8	126.3	120.1	114.0
127.5°	158.1	135.4	133.9	127.6	121.5
130°	161.1	140.5	138.8	132.2	125.5
132.5°	163.6	144.7	143.0	136.4	129.7
135°	166.3	149.5	148.0	141.9	135.9
137.5°	170.3	155.7	154.2	148.2	142.2
140°	172.8	159.9	158.4	152.9	147.4
142.5°	174.8	162.9	161.7	156.5	151.4
145°	177.5	167.6	166.5	162.0	157.5
147.5°	181.5	173.5	172.5	168.1	163.7
150°	183.5	176.6	175.7	171.7	167.7
152.5°	184.9	178.6	177.9	174.9	171.9
155°	187.8	183.1	182.5	180.3	178.1
157.5°	190.8	187.5	186.9	184.8	182.6
160°	192.1	189.5	189.1	187.5	185.8
162.5°	193.5	191.6	191.3	190.0	188.8
165°	195.6	194.7	194.4	193.3	192.2
167.5°	197.2	196.5	196.3	195.8	195.2
170°	198.5	198.4	198.3	197.8	197.3
172.5°	198.6	198.6	198.6	198.4	198.3
175°	199.4	199.9	199.9	199.9	199.9
177.5°	199.5	199.9	199.9	199.9	199.9
180°	199.9	199.9	199.9	199.9	199.9



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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	14.31	15.43	15.03	16.17	17.06	17.13	18.26	17.85	19.00	19.88
	3H	14.80	15.81	15.54	16.57	17.48	18.49	19.51	19.23	20.26	21.17
	4H	15.01	15.96	15.76	16.72	17.65	18.95	19.90	19.70	20.66	21.59
	6H	15.14	16.02	15.90	16.79	17.73	19.25	20.13	20.01	20.90	21.84
	8H	15.15	15.99	15.92	16.78	17.72	19.33	20.17	20.10	20.96	21.90
	12H	15.13	15.93	15.91	16.71	17.68	19.37	20.17	20.16	20.96	21.93
4H	2H	15.37	16.32	16.13	17.08	18.01	17.57	18.53	18.33	19.29	20.21
	3H	16.42	17.22	17.19	18.01	18.96	19.10	19.90	19.87	20.69	21.64
	4H	16.71	17.43	17.49	18.23	19.20	19.64	20.36	20.42	21.16	22.13
	6H	16.85	17.47	17.65	18.29	19.27	20.02	20.64	20.82	21.46	22.44
	8H	16.86	17.44	17.67	18.26	19.25	20.13	20.71	20.93	21.53	22.52
	12H	16.84	17.37	17.67	18.20	19.20	20.20	20.72	21.02	21.56	22.56
8H	4H	17.18	17.77	17.99	18.58	19.57	19.78	20.37	20.59	21.19	22.18
	6H	17.45	17.94	18.29	18.80	19.79	20.23	20.71	21.06	21.57	22.57
	8H	17.50	17.93	18.35	18.79	19.79	20.38	20.81	21.23	21.67	22.68
	12H	17.50	17.87	18.34	18.72	19.79	20.49	20.87	21.34	21.72	22.78
12H	4H	17.20	17.73	18.03	18.56	19.56	19.76	20.29	20.59	21.13	22.12
	6H	17.52	17.95	18.36	18.80	19.81	20.23	20.66	21.07	21.52	22.52
	8H	17.60	17.98	18.44	18.82	19.89	20.40	20.78	21.25	21.63	22.69