

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: P934058

Luminaire Tested: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934058
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

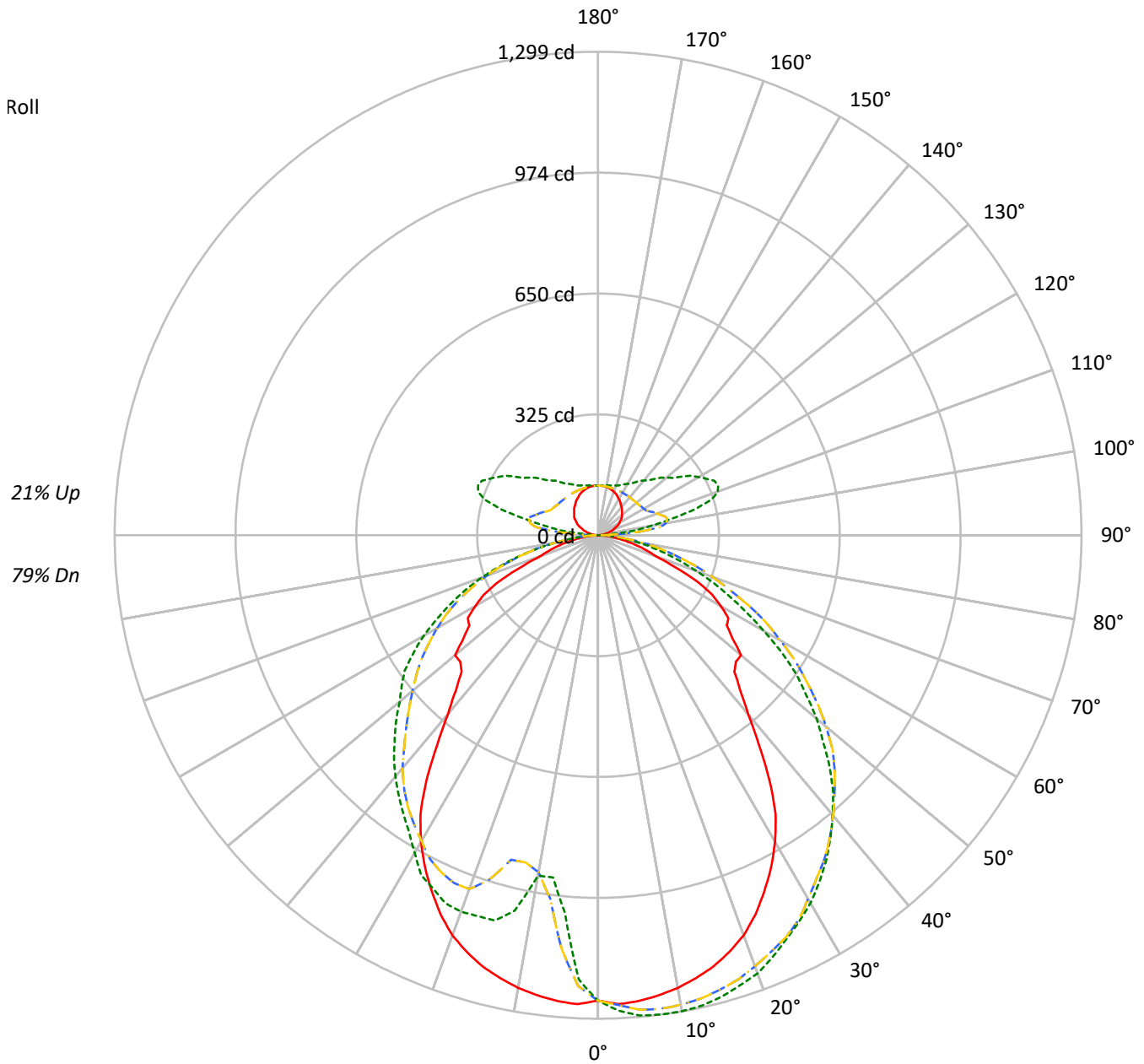
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4108.6 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 38.8
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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79			79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67			67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56			56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47			47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41			41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35			35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27			27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24			24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22			22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20			20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11602	11602	11602	11602
5°	11676	11712	11676	9209
10°	11586	11536	11586	8248
15°	11445	11286	11445	9425
20°	11194	10991	11194	9444
25°	10691	10559	10691	9245
30°	10046	10200	10046	8805
35°	8942	9747	8942	8323
40°	7439	9213	7439	7957
45°	6633	8588	6633	7538
50°	7032	7843	7032	7117
55°	6596	7040	6596	6873
60°	6776	5978	6776	6295
65°	6114	4942	6114	5525
70°	4204	3938	4204	4631
75°	3647	2911	3647	3487
80°	2878	1926	2878	2095
85°	1565	1019	1565	866

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10186 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	2.7
10°-20°	320.5	7.8
20°-30°	495.4	12.1
30°-40°	591.4	14.4
40°-50°	594.8	14.5
50°-60°	517.6	12.6
60°-70°	367.0	8.9
70°-80°	194.1	4.7
80°-90°	48.9	1.2
90°-100°	65.1	1.6
100°-110°	171.2	4.2
110°-120°	177.5	4.3
120°-130°	142.4	3.5
130°-140°	111.7	2.7
140°-150°	85.8	2.1
150°-160°	61.8	1.5
160°-170°	37.8	0.9
170°-180°	12.8	0.3
0°-30°	928.7	22.6
0°-40°	1520.1	37.0
0°-60°	2632.5	64.1
0°-90°	3242.4	78.9
90°-120°	413.9	10.1
90°-150°	753.8	18.3
90°-180°	866.0	21.1
0°-180°	4108.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1250	1250	1250	1250	1250	
5°	1256	1295	1256	1018	1256	119
15°	1199	1283	1199	1072	1199	337
25°	1056	1197	1056	1048	1056	485
35°	803	1068	803	912	803	497
45°	518	880	518	772	518	415
55°	422	650	422	634	422	388
65°	293	392	293	438	293	280
75°	111	186	111	222	111	117
85°	19	47	19	40	19	26
90°	1	3	1	3	1	2
95°	9	39	9	39	9	10
105°	31	268	31	268	31	33
115°	55	345	55	345	55	54
125°	76	275	76	275	76	68
135°	91	213	91	213	91	70
145°	105	173	105	173	105	66
155°	119	149	119	149	119	55
165°	128	139	128	139	128	36
175°	134	134	134	134	134	13
180°	134	134	134	134	134	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1261.0	1261.0	1268.1	1270.4	1270.4	1266.9	1263.4	1266.9	1277.5	1281.1	1279.9
5°	1256.3	1265.7	1278.8	1281.1	1283.4	1282.3	1279.9	1282.3	1294.1	1296.5	1297.7
7.5°	1246.8	1264.5	1281.1	1284.7	1288.2	1284.7	1283.4	1285.8	1297.7	1300.0	1300.0
10°	1235.0	1259.8	1278.8	1281.1	1284.7	1281.1	1281.1	1285.8	1297.7	1300.0	1301.2
12.5°	1218.4	1252.7	1270.4	1272.9	1277.5	1276.4	1275.2	1279.9	1291.8	1294.1	1294.1
15°	1199.4	1239.7	1256.3	1258.6	1266.9	1264.5	1264.5	1269.3	1282.3	1285.8	1284.7
17.5°	1173.5	1223.2	1242.1	1245.6	1251.6	1250.3	1251.6	1256.3	1268.1	1270.4	1271.6
20°	1143.9	1200.7	1223.2	1226.7	1232.6	1232.6	1232.6	1238.5	1250.3	1255.0	1255.0
22.5°	1103.7	1177.0	1200.7	1203.0	1210.1	1210.1	1212.5	1220.8	1231.4	1232.6	1232.6
25°	1056.4	1151.0	1171.1	1178.2	1185.3	1188.8	1192.4	1197.1	1200.7	1199.4	1200.7
27.5°	1006.7	1117.9	1143.9	1148.6	1158.1	1161.7	1166.3	1167.6	1168.7	1172.2	1169.9
30°	951.1	1071.7	1110.7	1115.5	1130.9	1133.2	1128.5	1130.9	1136.8	1139.2	1141.5
32.5°	888.3	1003.1	1076.4	1087.1	1101.3	1094.2	1093.0	1096.6	1106.1	1106.1	1108.4
35°	803.2	949.9	1044.6	1054.0	1064.6	1056.4	1061.0	1062.3	1068.2	1071.7	1070.5
37.5°	709.7	903.7	1011.4	1018.5	1026.7	1016.1	1023.3	1026.7	1031.5	1029.2	1029.2
40°	627.0	831.6	972.4	977.1	984.2	975.9	983.0	985.4	987.7	985.4	984.2
42.5°	565.5	752.3	930.9	936.9	932.1	938.0	940.4	945.2	941.6	936.9	936.9
45°	518.1	731.0	886.0	893.1	886.0	895.5	899.0	899.0	888.3	886.0	884.8
47.5°	502.7	688.5	841.1	841.1	837.5	849.3	855.3	847.0	836.3	832.8	832.8
50°	501.6	641.1	779.5	774.8	791.4	805.6	799.7	791.4	783.1	770.1	770.1
52.5°	455.4	583.2	700.3	718.0	744.1	752.3	742.8	734.6	720.4	714.5	709.7
55°	422.3	522.9	628.2	663.6	690.8	701.5	683.7	675.4	654.1	650.6	648.2
57.5°	415.2	435.3	561.9	606.8	640.0	638.8	628.2	612.8	595.0	591.4	590.3
60°	380.9	314.6	490.9	544.2	578.5	574.9	565.5	551.2	534.7	532.4	529.9
62.5°	345.4	228.3	410.5	470.8	519.3	518.1	509.9	488.6	476.8	470.8	466.1
65°	293.4	191.6	292.1	391.5	461.4	463.7	446.0	430.6	417.6	410.5	409.2
67.5°	223.6	156.1	197.5	326.5	405.8	403.3	380.9	373.8	357.2	353.6	346.6
70°	165.6	104.1	137.3	265.0	351.3	345.4	327.7	319.4	304.0	295.7	291.0
72.5°	137.3	84.0	100.5	205.8	295.7	288.6	273.2	263.8	250.8	243.7	239.0
75°	111.2	88.7	76.9	152.6	240.1	235.4	221.2	211.7	201.1	191.6	192.9
77.5°	81.7	82.8	61.5	112.4	190.4	183.4	175.0	163.2	158.5	149.1	149.1
80°	61.5	65.1	46.1	76.9	137.3	137.3	130.1	121.9	113.5	108.9	108.9
82.5°	41.4	41.4	34.3	48.5	93.5	89.9	85.1	82.8	78.1	75.7	75.7
85°	18.9	23.6	21.3	29.5	50.9	53.3	53.3	50.9	49.7	47.3	48.5
87.5°	5.9	10.7	13.0	16.6	26.1	27.2	28.4	28.4	28.4	29.5	29.5
90°	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6	3.4	3.4
92.5°	3.6	9.7	15.8	17.3	24.4	33.8	38.4	33.7	24.2	17.0	16.3
95°	8.6	19.8	31.0	33.8	59.9	94.7	112.2	100.1	75.9	57.8	55.8
97.5°	14.9	24.7	34.6	37.1	80.7	138.8	167.9	160.3	145.0	133.5	129.6
100°	19.7	28.6	37.6	39.8	88.2	152.7	185.0	185.5	186.7	187.5	182.8
102.5°	23.8	32.1	40.6	42.6	91.7	157.1	189.8	199.6	219.0	233.6	229.6
105°	30.9	38.0	44.9	46.7	94.3	157.6	189.3	211.1	254.7	287.4	285.2
107.5°	38.1	44.6	51.2	52.8	94.7	150.6	178.5	209.0	269.8	315.4	316.0
110°	42.9	48.8	54.7	56.2	94.0	144.4	169.6	203.6	271.5	322.6	324.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.6	53.3	58.9	60.3	94.0	139.0	161.4	196.3	265.8	318.0	321.4
115°	54.8	60.0	65.2	66.5	94.9	132.8	151.7	185.2	252.2	302.4	307.2
117.5°	61.9	66.6	71.4	72.5	96.7	128.8	145.0	175.2	235.6	281.0	286.3
120°	66.0	70.5	74.9	76.0	98.0	127.5	142.2	169.8	225.2	266.6	271.7
122.5°	70.0	74.5	79.0	80.1	100.1	126.8	140.1	165.0	214.8	252.1	257.1
125°	76.2	80.3	84.4	85.5	103.0	126.2	137.9	159.0	201.4	233.0	237.7
127.5°	81.2	85.4	89.5	90.6	105.7	125.9	136.0	154.2	190.5	217.7	221.7
130°	83.9	88.4	92.8	94.0	107.8	126.1	135.3	151.5	183.8	208.1	211.7
132.5°	86.8	91.2	95.7	96.8	109.4	126.2	134.7	149.2	178.1	199.8	203.1
135°	90.9	94.9	99.0	100.0	111.2	126.1	133.6	145.7	169.9	188.1	190.9
137.5°	95.1	99.1	103.1	104.1	113.9	126.9	133.4	143.6	164.1	179.5	181.8
140°	98.6	102.2	106.0	106.9	115.5	127.0	132.8	141.6	159.4	172.6	174.8
142.5°	101.3	104.7	108.1	109.0	116.9	127.5	132.8	140.6	156.1	167.8	169.7
145°	105.4	108.3	111.4	112.1	118.7	127.5	131.9	138.2	150.9	160.5	162.0
147.5°	109.5	112.4	115.3	116.0	121.3	128.4	131.9	136.9	146.9	154.4	155.6
150°	112.2	114.8	117.5	118.1	122.7	128.8	131.9	136.1	144.6	150.9	151.8
152.5°	115.0	116.9	118.9	119.4	123.6	129.1	131.9	135.5	142.7	148.2	148.9
155°	119.1	120.5	122.0	122.4	125.5	129.7	131.9	134.7	140.6	144.9	145.3
157.5°	122.1	123.6	125.0	125.3	127.5	130.4	131.9	134.1	138.6	141.9	142.3
160°	124.2	125.3	126.4	126.7	128.4	130.7	131.9	133.8	137.6	140.5	140.7
162.5°	126.2	127.0	127.9	128.1	129.4	131.1	131.9	133.5	136.7	139.1	139.3
165°	128.5	129.2	130.0	130.2	130.7	131.5	131.9	133.0	135.4	137.1	137.3
167.5°	130.5	130.9	131.3	131.3	131.8	132.4	132.8	133.5	135.0	136.2	136.3
170°	131.9	132.2	132.6	132.7	132.7	132.8	132.8	133.5	135.0	136.2	136.2
172.5°	132.6	132.7	132.8	132.8	132.8	132.8	132.8	133.4	134.6	135.5	135.4
175°	133.6	133.6	133.6	133.6	133.3	133.0	132.8	133.1	133.9	134.5	134.5
177.5°	133.6	133.6	133.6	133.6	133.4	133.1	133.0	133.2	133.8	134.3	134.2
180°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1282.3	1278.8	1282.3	1279.9	1281.1	1277.5	1266.9	1263.4	1266.9	1270.4	1270.4
5°	1297.7	1295.3	1297.7	1297.7	1296.5	1294.1	1282.3	1279.9	1282.3	1283.4	1281.1
7.5°	1302.4	1298.8	1302.4	1300.0	1300.0	1297.7	1285.8	1283.4	1284.7	1288.2	1284.7
10°	1302.4	1298.8	1302.4	1301.2	1300.0	1297.7	1285.8	1281.1	1281.1	1284.7	1281.1
12.5°	1296.5	1294.1	1296.5	1294.1	1294.1	1291.8	1279.9	1275.2	1276.4	1277.5	1272.9
15°	1287.0	1283.4	1287.0	1284.7	1285.8	1282.3	1269.3	1264.5	1264.5	1266.9	1258.6
17.5°	1272.9	1268.1	1272.9	1271.6	1270.4	1268.1	1256.3	1251.6	1250.3	1251.6	1245.6
20°	1256.3	1252.7	1256.3	1255.0	1255.0	1250.3	1238.5	1232.6	1232.6	1232.6	1226.7
22.5°	1230.2	1226.7	1230.2	1232.6	1232.6	1231.4	1220.8	1212.5	1210.1	1210.1	1203.0
25°	1200.7	1197.1	1200.7	1200.7	1199.4	1200.7	1197.1	1192.4	1188.8	1185.3	1178.2
27.5°	1172.2	1169.9	1172.2	1169.9	1172.2	1168.7	1167.6	1166.3	1161.7	1158.1	1148.6
30°	1143.9	1141.5	1143.9	1141.5	1139.2	1136.8	1130.9	1128.5	1133.2	1130.9	1115.5
32.5°	1108.4	1106.1	1108.4	1108.4	1106.1	1106.1	1096.6	1093.0	1094.2	1101.3	1087.1
35°	1071.7	1068.2	1071.7	1070.5	1071.7	1068.2	1062.3	1061.0	1056.4	1064.6	1054.0
37.5°	1029.2	1025.6	1029.2	1029.2	1029.2	1031.5	1026.7	1023.3	1016.1	1026.7	1018.5
40°	985.4	980.6	985.4	984.2	985.4	987.7	985.4	983.0	975.9	984.2	977.1
42.5°	935.7	934.5	935.7	936.9	936.9	941.6	945.2	940.4	938.0	932.1	936.9
45°	882.4	880.1	882.4	884.8	886.0	888.3	899.0	899.0	895.5	886.0	893.1
47.5°	825.7	819.7	825.7	832.8	832.8	836.3	847.0	855.3	849.3	837.5	841.1
50°	765.3	766.6	765.3	770.1	770.1	783.1	791.4	799.7	805.6	791.4	774.8
52.5°	706.2	705.1	706.2	709.7	714.5	720.4	734.6	742.8	752.3	744.1	718.0
55°	647.0	649.5	647.0	648.2	650.6	654.1	675.4	683.7	701.5	690.8	663.6
57.5°	588.0	584.4	588.0	590.3	591.4	595.0	612.8	628.2	638.8	640.0	606.8
60°	519.3	514.5	519.3	529.9	532.4	534.7	551.2	565.5	574.9	578.5	544.2
62.5°	458.9	450.7	458.9	466.1	470.8	476.8	488.6	509.9	518.1	519.3	470.8
65°	395.1	391.5	395.1	409.2	410.5	417.6	430.6	446.0	463.7	461.4	391.5
67.5°	337.2	337.2	337.2	346.6	353.6	357.2	373.8	380.9	403.3	405.8	326.5
70°	283.9	282.7	283.9	291.0	295.7	304.0	319.4	327.7	345.4	351.3	265.0
72.5°	233.0	231.9	233.0	239.0	243.7	250.8	263.8	273.2	288.6	295.7	205.8
75°	188.1	185.7	188.1	192.9	191.6	201.1	211.7	221.2	235.4	240.1	152.6
77.5°	144.3	144.3	144.3	149.1	149.1	158.5	163.2	175.0	183.4	190.4	112.4
80°	107.6	106.5	107.6	108.9	108.9	113.5	121.9	130.1	137.3	137.3	76.9
82.5°	75.7	73.3	75.7	75.7	75.7	78.1	82.8	85.1	89.9	93.5	48.5
85°	47.3	47.3	47.3	48.5	47.3	49.7	50.9	53.3	53.3	50.9	29.5
87.5°	30.8	29.5	30.8	29.5	29.5	28.4	28.4	28.4	27.2	26.1	16.6
90°	3.4	3.4	3.4	3.4	3.4	4.6	6.1	6.8	5.8	3.9	2.5
92.5°	13.6	10.9	13.6	16.3	17.0	24.2	33.7	38.4	33.8	24.4	17.3
95°	47.6	39.4	47.6	55.8	57.8	75.9	100.1	112.2	94.7	59.9	33.8
97.5°	114.0	98.4	114.0	129.6	133.5	145.0	160.3	167.9	138.8	80.7	37.1
100°	164.3	145.7	164.3	182.8	187.5	186.7	185.5	185.0	152.7	88.2	39.8
102.5°	213.6	197.7	213.6	229.6	233.6	219.0	199.6	189.8	157.1	91.7	42.6
105°	276.7	268.1	276.7	285.2	287.4	254.7	211.1	189.3	157.6	94.3	46.7
107.5°	318.0	320.1	318.0	316.0	315.4	269.8	209.0	178.5	150.6	94.7	52.8
110°	333.7	342.6	333.7	324.8	322.6	271.5	203.6	169.6	144.4	94.0	56.2



TEST NUMBER: P934058

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	335.1	348.8	335.1	321.4	318.0	265.8	196.3	161.4	139.0	94.0	60.3
115°	326.3	345.2	326.3	307.2	302.4	252.2	185.2	151.7	132.8	94.9	66.5
117.5°	307.4	328.5	307.4	286.3	281.0	235.6	175.2	145.0	128.8	96.7	72.5
120°	292.2	312.6	292.2	271.7	266.6	225.2	169.8	142.2	127.5	98.0	76.0
122.5°	277.4	297.6	277.4	257.1	252.1	214.8	165.0	140.1	126.8	100.1	80.1
125°	256.3	275.0	256.3	237.7	233.0	201.4	159.0	137.9	126.2	103.0	85.5
127.5°	237.3	253.0	237.3	221.7	217.7	190.5	154.2	136.0	125.9	105.7	90.6
130°	226.2	240.7	226.2	211.7	208.1	183.8	151.5	135.3	126.1	107.8	94.0
132.5°	216.0	229.0	216.0	203.1	199.8	178.1	149.2	134.7	126.2	109.4	96.8
135°	202.2	213.4	202.2	190.9	188.1	169.9	145.7	133.6	126.1	111.2	100.0
137.5°	191.0	200.2	191.0	181.8	179.5	164.1	143.6	133.4	126.9	113.9	104.1
140°	183.3	191.9	183.3	174.8	172.6	159.4	141.6	132.8	127.0	115.5	106.9
142.5°	177.0	184.3	177.0	169.7	167.8	156.1	140.6	132.8	127.5	116.9	109.0
145°	167.5	173.1	167.5	162.0	160.5	150.9	138.2	131.9	127.5	118.7	112.1
147.5°	160.2	164.8	160.2	155.6	154.4	146.9	136.9	131.9	128.4	121.3	116.0
150°	155.6	159.4	155.6	151.8	150.9	144.6	136.1	131.9	128.8	122.7	118.1
152.5°	151.7	154.5	151.7	148.9	148.2	142.7	135.5	131.9	129.1	123.6	119.4
155°	147.2	149.1	147.2	145.3	144.9	140.6	134.7	131.9	129.7	125.5	122.4
157.5°	143.6	145.0	143.6	142.3	141.9	138.6	134.1	131.9	130.4	127.5	125.3
160°	141.5	142.2	141.5	140.7	140.5	137.6	133.8	131.9	130.7	128.4	126.7
162.5°	140.0	140.7	140.0	139.3	139.1	136.7	133.5	131.9	131.1	129.4	128.1
165°	138.1	138.8	138.1	137.3	137.1	135.4	133.0	131.9	131.5	130.7	130.2
167.5°	136.5	136.9	136.5	136.3	136.2	135.0	133.5	132.8	132.4	131.8	131.3
170°	136.2	136.2	136.2	136.2	136.2	135.0	133.5	132.8	132.8	132.7	132.7
172.5°	135.1	134.8	135.1	135.4	135.5	134.6	133.4	132.8	132.8	132.8	132.8
175°	134.5	134.5	134.5	134.5	134.5	133.9	133.1	132.8	133.0	133.3	133.6
177.5°	133.9	133.6	133.9	134.2	134.3	133.8	133.2	133.0	133.1	133.4	133.6
180°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6



TEST NUMBER: P934058

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1268.1	1261.0	1261.0	1249.1	1244.4	1240.9	1235.0	1217.3	1212.5	1207.8	1214.8
5°	1278.8	1265.7	1256.3	1235.0	1217.3	1210.1	1187.6	1145.1	1116.6	1095.4	1083.6
7.5°	1281.1	1264.5	1246.8	1213.7	1171.1	1152.2	1083.6	1005.5	984.2	965.2	953.4
10°	1278.8	1259.8	1235.0	1185.3	1084.8	1051.6	983.0	932.1	919.1	915.5	919.1
12.5°	1270.4	1252.7	1218.4	1135.6	994.9	972.4	932.1	902.6	900.2	906.1	938.0
15°	1256.3	1239.7	1199.4	1069.4	945.2	928.6	900.2	889.6	902.6	943.9	1039.8
17.5°	1242.1	1223.2	1173.5	1004.3	907.3	895.5	875.3	896.7	970.0	1025.6	1057.5
20°	1223.2	1200.7	1143.9	957.0	880.1	869.4	859.9	955.8	1011.4	1031.5	1049.2
22.5°	1200.7	1177.0	1103.7	923.9	851.7	843.4	849.3	989.0	1011.4	1025.6	1041.0
25°	1171.1	1151.0	1056.4	897.8	829.2	819.7	842.2	985.4	998.4	1001.9	1032.7
27.5°	1143.9	1117.9	1006.7	874.2	802.0	798.4	848.1	970.0	979.5	983.0	1016.1
30°	1110.7	1071.7	951.1	849.3	773.6	772.5	849.3	951.1	948.7	958.2	991.3
32.5°	1076.4	1003.1	888.3	818.6	746.4	745.3	841.1	922.7	920.3	933.4	958.2
35°	1044.6	949.9	803.2	783.1	712.1	713.3	820.9	889.6	890.7	902.6	918.0
37.5°	1011.4	903.7	709.7	744.1	679.0	679.0	793.7	858.8	856.5	859.9	881.3
40°	972.4	831.6	627.0	693.2	648.2	644.7	760.7	825.7	817.4	816.3	845.8
42.5°	930.9	752.3	565.5	625.7	612.8	608.0	720.4	785.5	770.1	773.6	811.5
45°	886.0	731.0	518.1	528.8	576.0	572.6	676.6	739.3	728.7	738.2	777.2
47.5°	841.1	688.5	502.7	438.9	537.0	535.8	628.2	694.4	688.5	697.9	739.3
50°	779.5	641.1	501.6	376.2	493.3	498.0	570.1	650.6	650.6	658.9	702.6
52.5°	700.3	583.2	455.4	340.7	442.4	456.6	519.3	612.8	615.1	623.4	662.4
55°	628.2	522.9	422.3	313.4	382.1	412.8	469.6	573.7	578.5	586.7	622.2
57.5°	561.9	435.3	415.2	281.6	326.5	356.1	425.8	535.8	538.3	545.3	579.6
60°	490.9	314.6	380.9	247.2	278.0	300.5	385.6	490.9	499.2	503.9	533.5
62.5°	410.5	228.3	345.4	223.6	254.4	259.1	352.5	448.3	458.9	462.5	480.2
65°	292.1	191.6	293.4	203.5	229.5	230.6	317.0	404.6	414.0	419.9	433.0
67.5°	197.5	156.1	223.6	184.5	210.6	211.7	282.7	353.6	366.7	371.5	379.7
70°	137.3	104.1	165.6	164.5	189.3	191.6	246.0	307.5	319.4	322.9	327.7
72.5°	100.5	84.0	137.3	147.9	166.8	169.1	208.2	255.5	267.3	270.9	273.2
75°	76.9	88.7	111.2	128.9	141.9	143.2	170.4	208.2	216.5	218.8	220.0
77.5°	61.5	82.8	81.7	104.1	115.9	113.5	133.7	160.9	168.0	168.0	168.0
80°	46.1	65.1	61.5	74.5	85.1	82.8	95.8	114.8	117.1	119.4	118.3
82.5°	34.3	41.4	41.4	47.3	56.8	54.4	63.8	74.5	74.5	74.5	76.9
85°	21.3	23.6	18.9	24.8	32.0	30.8	35.5	40.2	41.4	41.4	39.0
87.5°	13.0	10.7	5.9	9.5	14.2	14.2	16.6	17.7	16.6	16.6	16.6
90°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6
92.5°	15.8	9.7	3.6	9.7	15.8	17.3	24.4	33.8	38.4	33.7	24.2
95°	31.0	19.8	8.6	19.8	31.0	33.8	59.9	94.7	112.2	100.1	75.9
97.5°	34.6	24.7	14.9	24.7	34.6	37.1	80.7	138.8	167.9	160.3	145.0
100°	37.6	28.6	19.7	28.6	37.6	39.8	88.2	152.7	185.0	185.5	186.7
102.5°	40.6	32.1	23.8	32.1	40.6	42.6	91.7	157.1	189.8	199.6	219.0
105°	44.9	38.0	30.9	38.0	44.9	46.7	94.3	157.6	189.3	211.1	254.7
107.5°	51.2	44.6	38.1	44.6	51.2	52.8	94.7	150.6	178.5	209.0	269.8
110°	54.7	48.8	42.9	48.8	54.7	56.2	94.0	144.4	169.6	203.6	271.5



TEST NUMBER: P934058

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	58.9	53.3	47.6	53.3	58.9	60.3	94.0	139.0	161.4	196.3	265.8
115°	65.2	60.0	54.8	60.0	65.2	66.5	94.9	132.8	151.7	185.2	252.2
117.5°	71.4	66.6	61.9	66.6	71.4	72.5	96.7	128.8	145.0	175.2	235.6
120°	74.9	70.5	66.0	70.5	74.9	76.0	98.0	127.5	142.2	169.8	225.2
122.5°	79.0	74.5	70.0	74.5	79.0	80.1	100.1	126.8	140.1	165.0	214.8
125°	84.4	80.3	76.2	80.3	84.4	85.5	103.0	126.2	137.9	159.0	201.4
127.5°	89.5	85.4	81.2	85.4	89.5	90.6	105.7	125.9	136.0	154.2	190.5
130°	92.8	88.4	83.9	88.4	92.8	94.0	107.8	126.1	135.3	151.5	183.8
132.5°	95.7	91.2	86.8	91.2	95.7	96.8	109.4	126.2	134.7	149.2	178.1
135°	99.0	94.9	90.9	94.9	99.0	100.0	111.2	126.1	133.6	145.7	169.9
137.5°	103.1	99.1	95.1	99.1	103.1	104.1	113.9	126.9	133.4	143.6	164.1
140°	106.0	102.2	98.6	102.2	106.0	106.9	115.5	127.0	132.8	141.6	159.4
142.5°	108.1	104.7	101.3	104.7	108.1	109.0	116.9	127.5	132.8	140.6	156.1
145°	111.4	108.3	105.4	108.3	111.4	112.1	118.7	127.5	131.9	138.2	150.9
147.5°	115.3	112.4	109.5	112.4	115.3	116.0	121.3	128.4	131.9	136.9	146.9
150°	117.5	114.8	112.2	114.8	117.5	118.1	122.7	128.8	131.9	136.1	144.6
152.5°	118.9	116.9	115.0	116.9	118.9	119.4	123.6	129.1	131.9	135.5	142.7
155°	122.0	120.5	119.1	120.5	122.0	122.4	125.5	129.7	131.9	134.7	140.6
157.5°	125.0	123.6	122.1	123.6	125.0	125.3	127.5	130.4	131.9	134.1	138.6
160°	126.4	125.3	124.2	125.3	126.4	126.7	128.4	130.7	131.9	133.8	137.6
162.5°	127.9	127.0	126.2	127.0	127.9	128.1	129.4	131.1	131.9	133.5	136.7
165°	130.0	129.2	128.5	129.2	130.0	130.2	130.7	131.5	131.9	133.0	135.4
167.5°	131.3	130.9	130.5	130.9	131.3	131.3	131.8	132.4	132.8	133.5	135.0
170°	132.6	132.2	131.9	132.2	132.6	132.7	132.7	132.8	132.8	133.5	135.0
172.5°	132.8	132.7	132.6	132.7	132.8	132.8	132.8	132.8	132.8	133.4	134.6
175°	133.6	133.6	133.6	133.6	133.6	133.6	133.3	133.0	132.8	133.1	133.9
177.5°	133.6	133.6	133.6	133.6	133.6	133.6	133.4	133.1	133.0	133.2	133.8
180°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6



TEST NUMBER: P934058

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1206.6	1203.0	1207.8	1194.7	1207.8	1203.0	1206.6	1214.8	1207.8	1212.5	1217.3
5°	1058.7	1052.8	1033.9	1018.5	1033.9	1052.8	1058.7	1083.6	1095.4	1116.6	1145.1
7.5°	946.3	941.6	936.9	927.4	936.9	941.6	946.3	953.4	965.2	984.2	1005.5
10°	921.5	922.7	929.8	928.6	929.8	922.7	921.5	919.1	915.5	919.1	932.1
12.5°	985.4	996.0	1035.1	1032.7	1035.1	996.0	985.4	938.0	906.1	900.2	902.6
15°	1058.7	1062.3	1070.5	1071.7	1070.5	1062.3	1058.7	1039.8	943.9	902.6	889.6
17.5°	1065.8	1067.0	1072.9	1072.9	1072.9	1067.0	1065.8	1057.5	1025.6	970.0	896.7
20°	1059.9	1062.3	1074.1	1076.4	1074.1	1062.3	1059.9	1049.2	1031.5	1011.4	955.8
22.5°	1057.5	1062.3	1071.7	1070.5	1071.7	1062.3	1057.5	1041.0	1025.6	1011.4	989.0
25°	1045.7	1045.7	1046.9	1048.1	1046.9	1045.7	1045.7	1032.7	1001.9	998.4	985.4
27.5°	1020.8	1023.3	1030.3	1029.2	1030.3	1023.3	1020.8	1016.1	983.0	979.5	970.0
30°	998.4	996.0	990.1	985.4	990.1	996.0	998.4	991.3	958.2	948.7	951.1
32.5°	960.5	954.6	948.7	945.2	948.7	954.6	960.5	958.2	933.4	920.3	922.7
35°	915.5	916.8	915.5	912.1	915.5	916.8	915.5	918.0	902.6	890.7	889.6
37.5°	883.7	886.0	884.8	880.1	884.8	886.0	883.7	881.3	859.9	856.5	858.8
40°	850.5	851.7	850.5	847.0	850.5	851.7	850.5	845.8	816.3	817.4	825.7
42.5°	818.6	817.4	813.8	811.5	813.8	817.4	818.6	811.5	773.6	770.1	785.5
45°	781.9	783.1	776.0	772.5	776.0	783.1	781.9	777.2	738.2	728.7	739.3
47.5°	745.3	745.3	739.3	735.8	739.3	745.3	745.3	739.3	697.9	688.5	694.4
50°	706.2	705.1	696.7	695.6	696.7	705.1	706.2	702.6	658.9	650.6	650.6
52.5°	661.3	661.3	662.4	664.8	662.4	661.3	661.3	662.4	623.4	615.1	612.8
55°	622.2	623.4	631.6	634.1	631.6	623.4	622.2	622.2	586.7	578.5	573.7
57.5°	582.0	582.0	588.0	588.0	588.0	582.0	582.0	579.6	545.3	538.3	535.8
60°	535.8	538.3	542.9	541.8	542.9	538.3	535.8	533.5	503.9	499.2	490.9
62.5°	487.3	489.7	490.9	488.6	490.9	489.7	487.3	480.2	462.5	458.9	448.3
65°	436.5	438.9	440.0	437.7	440.0	438.9	436.5	433.0	419.9	414.0	404.6
67.5°	384.4	383.3	382.1	386.8	382.1	383.3	384.4	379.7	371.5	366.7	353.6
70°	331.2	331.2	330.0	332.4	330.0	331.2	331.2	327.7	322.9	319.4	307.5
72.5°	274.4	273.2	278.0	274.4	278.0	273.2	274.4	273.2	270.9	267.3	255.5
75°	218.8	221.2	218.8	222.4	218.8	221.2	218.8	220.0	218.8	216.5	208.2
77.5°	166.8	169.1	166.8	166.8	166.8	169.1	166.8	168.0	168.0	168.0	160.9
80°	118.3	117.1	117.1	115.9	117.1	117.1	118.3	118.3	119.4	117.1	114.8
82.5°	75.7	74.5	74.5	76.9	74.5	74.5	75.7	76.9	74.5	74.5	74.5
85°	41.4	42.6	40.2	40.2	40.2	42.6	41.4	39.0	41.4	41.4	40.2
87.5°	15.4	14.2	14.2	14.2	14.2	14.2	15.4	16.6	16.6	16.6	17.7
90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	6.1	6.8	5.8
92.5°	17.0	16.3	13.6	10.9	13.6	16.3	17.0	24.2	33.7	38.4	33.8
95°	57.8	55.8	47.6	39.4	47.6	55.8	57.8	75.9	100.1	112.2	94.7
97.5°	133.5	129.6	114.0	98.4	114.0	129.6	133.5	145.0	160.3	167.9	138.8
100°	187.5	182.8	164.3	145.7	164.3	182.8	187.5	186.7	185.5	185.0	152.7
102.5°	233.6	229.6	213.6	197.7	213.6	229.6	233.6	219.0	199.6	189.8	157.1
105°	287.4	285.2	276.7	268.1	276.7	285.2	287.4	254.7	211.1	189.3	157.6
107.5°	315.4	316.0	318.0	320.1	318.0	316.0	315.4	269.8	209.0	178.5	150.6
110°	322.6	324.8	333.7	342.6	333.7	324.8	322.6	271.5	203.6	169.6	144.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	318.0	321.4	335.1	348.8	335.1	321.4	318.0	265.8	196.3	161.4	139.0
115°	302.4	307.2	326.3	345.2	326.3	307.2	302.4	252.2	185.2	151.7	132.8
117.5°	281.0	286.3	307.4	328.5	307.4	286.3	281.0	235.6	175.2	145.0	128.8
120°	266.6	271.7	292.2	312.6	292.2	271.7	266.6	225.2	169.8	142.2	127.5
122.5°	252.1	257.1	277.4	297.6	277.4	257.1	252.1	214.8	165.0	140.1	126.8
125°	233.0	237.7	256.3	275.0	256.3	237.7	233.0	201.4	159.0	137.9	126.2
127.5°	217.7	221.7	237.3	253.0	237.3	221.7	217.7	190.5	154.2	136.0	125.9
130°	208.1	211.7	226.2	240.7	226.2	211.7	208.1	183.8	151.5	135.3	126.1
132.5°	199.8	203.1	216.0	229.0	216.0	203.1	199.8	178.1	149.2	134.7	126.2
135°	188.1	190.9	202.2	213.4	202.2	190.9	188.1	169.9	145.7	133.6	126.1
137.5°	179.5	181.8	191.0	200.2	191.0	181.8	179.5	164.1	143.6	133.4	126.9
140°	172.6	174.8	183.3	191.9	183.3	174.8	172.6	159.4	141.6	132.8	127.0
142.5°	167.8	169.7	177.0	184.3	177.0	169.7	167.8	156.1	140.6	132.8	127.5
145°	160.5	162.0	167.5	173.1	167.5	162.0	160.5	150.9	138.2	131.9	127.5
147.5°	154.4	155.6	160.2	164.8	160.2	155.6	154.4	146.9	136.9	131.9	128.4
150°	150.9	151.8	155.6	159.4	155.6	151.8	150.9	144.6	136.1	131.9	128.8
152.5°	148.2	148.9	151.7	154.5	151.7	148.9	148.2	142.7	135.5	131.9	129.1
155°	144.9	145.3	147.2	149.1	147.2	145.3	144.9	140.6	134.7	131.9	129.7
157.5°	141.9	142.3	143.6	145.0	143.6	142.3	141.9	138.6	134.1	131.9	130.4
160°	140.5	140.7	141.5	142.2	141.5	140.7	140.5	137.6	133.8	131.9	130.7
162.5°	139.1	139.3	140.0	140.7	140.0	139.3	139.1	136.7	133.5	131.9	131.1
165°	137.1	137.3	138.1	138.8	138.1	137.3	137.1	135.4	133.0	131.9	131.5
167.5°	136.2	136.3	136.5	136.9	136.5	136.3	136.2	135.0	133.5	132.8	132.4
170°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	135.0	133.5	132.8	132.8
172.5°	135.5	135.4	135.1	134.8	135.1	135.4	135.5	134.6	133.4	132.8	132.8
175°	134.5	134.5	134.5	134.5	134.5	134.5	134.5	133.9	133.1	132.8	133.0
177.5°	134.3	134.2	133.9	133.6	133.9	134.2	134.3	133.8	133.2	133.0	133.1
180°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1235.0	1240.9	1244.4	1249.1	1261.0
5°	1187.6	1210.1	1217.3	1235.0	1256.3
7.5°	1083.6	1152.2	1171.1	1213.7	1246.8
10°	983.0	1051.6	1084.8	1185.3	1235.0
12.5°	932.1	972.4	994.9	1135.6	1218.4
15°	900.2	928.6	945.2	1069.4	1199.4
17.5°	875.3	895.5	907.3	1004.3	1173.5
20°	859.9	869.4	880.1	957.0	1143.9
22.5°	849.3	843.4	851.7	923.9	1103.7
25°	842.2	819.7	829.2	897.8	1056.4
27.5°	848.1	798.4	802.0	874.2	1006.7
30°	849.3	772.5	773.6	849.3	951.1
32.5°	841.1	745.3	746.4	818.6	888.3
35°	820.9	713.3	712.1	783.1	803.2
37.5°	793.7	679.0	679.0	744.1	709.7
40°	760.7	644.7	648.2	693.2	627.0
42.5°	720.4	608.0	612.8	625.7	565.5
45°	676.6	572.6	576.0	528.8	518.1
47.5°	628.2	535.8	537.0	438.9	502.7
50°	570.1	498.0	493.3	376.2	501.6
52.5°	519.3	456.6	442.4	340.7	455.4
55°	469.6	412.8	382.1	313.4	422.3
57.5°	425.8	356.1	326.5	281.6	415.2
60°	385.6	300.5	278.0	247.2	380.9
62.5°	352.5	259.1	254.4	223.6	345.4
65°	317.0	230.6	229.5	203.5	293.4
67.5°	282.7	211.7	210.6	184.5	223.6
70°	246.0	191.6	189.3	164.5	165.6
72.5°	208.2	169.1	166.8	147.9	137.3
75°	170.4	143.2	141.9	128.9	111.2
77.5°	133.7	113.5	115.9	104.1	81.7
80°	95.8	82.8	85.1	74.5	61.5
82.5°	63.8	54.4	56.8	47.3	41.4
85°	35.5	30.8	32.0	24.8	18.9
87.5°	16.6	14.2	14.2	9.5	5.9
90°	3.9	2.5	2.3	1.6	0.9
92.5°	24.4	17.3	15.8	9.7	3.6
95°	59.9	33.8	31.0	19.8	8.6
97.5°	80.7	37.1	34.6	24.7	14.9
100°	88.2	39.8	37.6	28.6	19.7
102.5°	91.7	42.6	40.6	32.1	23.8
105°	94.3	46.7	44.9	38.0	30.9
107.5°	94.7	52.8	51.2	44.6	38.1
110°	94.0	56.2	54.7	48.8	42.9



TEST NUMBER: P934058

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	94.0	60.3	58.9	53.3	47.6
115°	94.9	66.5	65.2	60.0	54.8
117.5°	96.7	72.5	71.4	66.6	61.9
120°	98.0	76.0	74.9	70.5	66.0
122.5°	100.1	80.1	79.0	74.5	70.0
125°	103.0	85.5	84.4	80.3	76.2
127.5°	105.7	90.6	89.5	85.4	81.2
130°	107.8	94.0	92.8	88.4	83.9
132.5°	109.4	96.8	95.7	91.2	86.8
135°	111.2	100.0	99.0	94.9	90.9
137.5°	113.9	104.1	103.1	99.1	95.1
140°	115.5	106.9	106.0	102.2	98.6
142.5°	116.9	109.0	108.1	104.7	101.3
145°	118.7	112.1	111.4	108.3	105.4
147.5°	121.3	116.0	115.3	112.4	109.5
150°	122.7	118.1	117.5	114.8	112.2
152.5°	123.6	119.4	118.9	116.9	115.0
155°	125.5	122.4	122.0	120.5	119.1
157.5°	127.5	125.3	125.0	123.6	122.1
160°	128.4	126.7	126.4	125.3	124.2
162.5°	129.4	128.1	127.9	127.0	126.2
165°	130.7	130.2	130.0	129.2	128.5
167.5°	131.8	131.3	131.3	130.9	130.5
170°	132.7	132.7	132.6	132.2	131.9
172.5°	132.8	132.8	132.8	132.7	132.6
175°	133.3	133.6	133.6	133.6	133.6
177.5°	133.4	133.6	133.6	133.6	133.6
180°	133.6	133.6	133.6	133.6	133.6



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.64	16.84	16.31	17.52	18.31	18.44	19.64	19.10	20.32	21.11
	3H	16.15	17.22	16.82	17.91	18.73	19.80	20.88	20.48	21.57	22.39
	4H	16.35	17.37	17.05	18.07	18.90	20.26	21.27	20.95	21.97	22.81
	6H	16.49	17.43	17.20	18.14	18.99	20.55	21.49	21.26	22.20	23.05
	8H	16.50	17.39	17.22	18.12	18.98	20.63	21.52	21.35	22.25	23.11
	12H	16.48	17.34	17.21	18.06	18.94	20.67	21.53	21.40	22.25	23.13
4H	2H	16.71	17.73	17.41	18.42	19.26	18.89	19.91	19.59	20.61	21.44
	3H	17.77	18.61	18.48	19.35	20.20	20.42	21.27	21.13	22.00	22.86
	4H	18.06	18.83	18.78	19.56	20.45	20.96	21.72	21.68	22.46	23.35
	6H	18.20	18.87	18.95	19.63	20.52	21.33	22.00	22.08	22.76	23.65
	8H	18.21	18.84	18.97	19.60	20.50	21.44	22.06	22.19	22.82	23.73
	12H	18.20	18.76	18.97	19.54	20.45	21.51	22.07	22.28	22.85	23.76
8H	4H	18.53	19.15	19.28	19.92	20.82	21.11	21.73	21.86	22.49	23.39
	6H	18.81	19.32	19.59	20.13	21.03	21.55	22.07	22.33	22.87	23.77
	8H	18.85	19.31	19.65	20.12	21.04	21.70	22.16	22.49	22.96	23.88
	12H	18.85	19.26	19.65	20.05	21.03	21.81	22.21	22.60	23.01	23.99
12H	4H	18.55	19.11	19.32	19.90	20.81	21.09	21.65	21.86	22.43	23.34
	6H	18.87	19.33	19.66	20.13	21.05	21.55	22.01	22.34	22.81	23.73
	8H	18.95	19.36	19.75	20.15	21.13	21.72	22.13	22.52	22.92	23.90