

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: P934031

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934031
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-92765-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

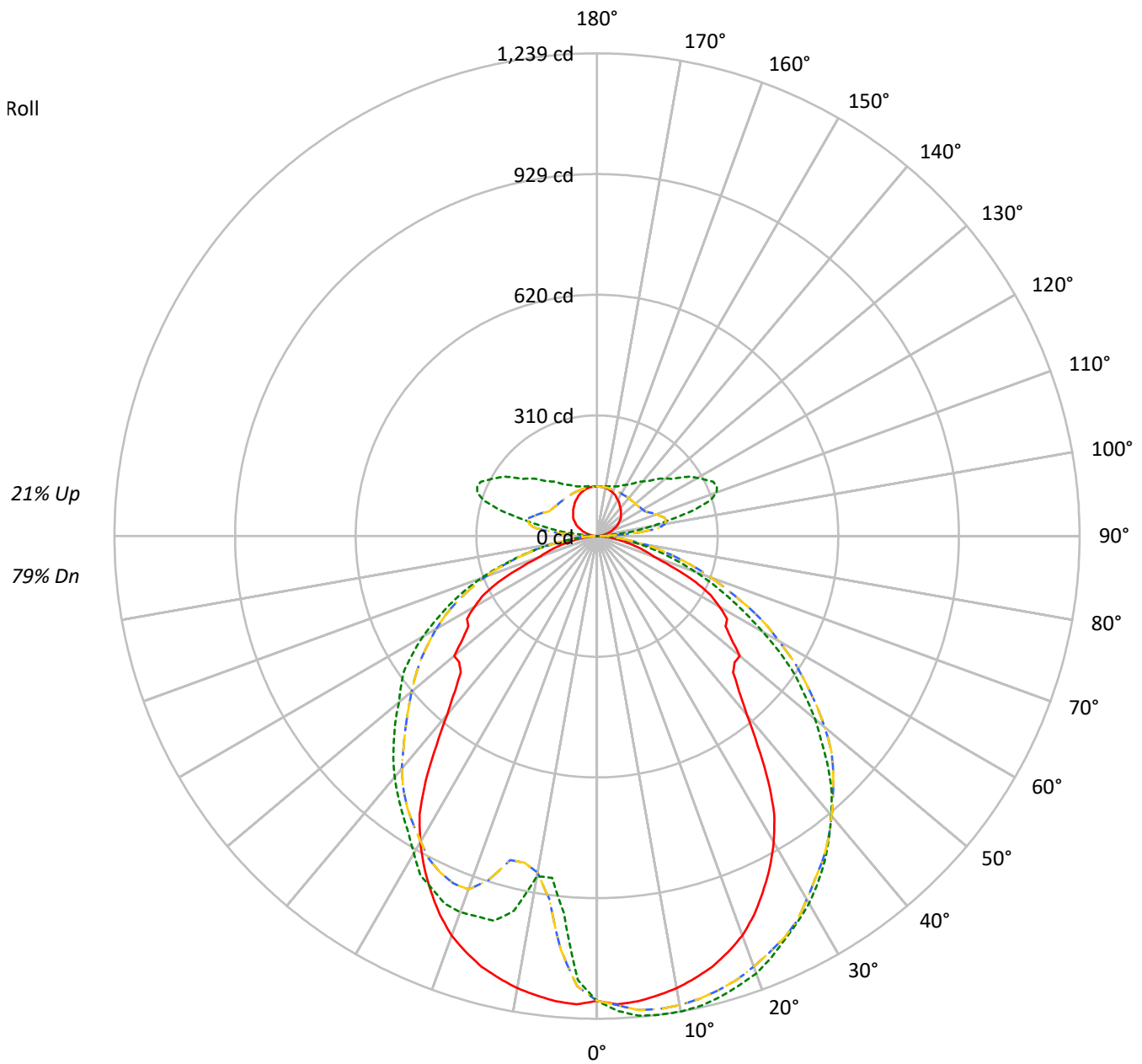
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3919.6 lumens
Efficiency: N/A
Efficacy: 101.0 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°	11068	11068	11068	11068
5°	11139	11174	11139	8786
10°	11053	11006	11053	7869
15°	10920	10767	10920	8991
20°	10678	10485	10678	9010
25°	10199	10074	10199	8818
30°	9583	9731	9583	8401
35°	8530	9299	8530	7939
40°	7096	8789	7096	7591
45°	6328	8193	6328	7191
50°	6708	7482	6708	6790
55°	6293	6716	6293	6557
60°	6462	5704	6462	6005
65°	5833	4714	5833	5271
70°	4011	3757	4011	4418
75°	3479	2776	3479	3327
80°	2747	1837	2747	2000
85°	1490	972	1490	827

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9717 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	2.7
10°-20°	305.7	7.8
20°-30°	472.6	12.1
30°-40°	564.2	14.4
40°-50°	567.5	14.5
50°-60°	493.8	12.6
60°-70°	350.1	8.9
70°-80°	185.2	4.7
80°-90°	46.6	1.2
90°-100°	62.1	1.6
100°-110°	163.4	4.2
110°-120°	169.4	4.3
120°-130°	135.8	3.5
130°-140°	106.6	2.7
140°-150°	81.8	2.1
150°-160°	58.9	1.5
160°-170°	36.0	0.9
170°-180°	12.2	0.3
0°-30°	886.0	22.6
0°-40°	1450.1	37.0
0°-60°	2511.4	64.1
0°-90°	3093.3	78.9
90°-120°	394.9	10.1
90°-150°	719.1	18.3
90°-180°	826.0	21.1
0°-180°	3919.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1193	1193	1193	1193	1193	
5°	1198	1236	1198	972	1198	114
15°	1144	1224	1144	1022	1144	322
25°	1008	1142	1008	1000	1008	463
35°	766	1019	766	870	766	474
45°	494	840	494	737	494	396
55°	403	620	403	605	403	370
65°	280	374	280	418	280	267
75°	106	177	106	212	106	112
85°	18	45	18	38	18	24
90°	1	3	1	3	1	1
95°	8	38	8	38	8	9
105°	30	256	30	256	30	31
115°	52	329	52	329	52	52
125°	73	262	73	262	73	65
135°	87	204	87	204	87	67
145°	100	165	100	165	100	63
155°	114	142	114	142	114	52
165°	123	132	123	132	123	35
175°	127	128	127	128	127	12
180°	127	127	127	127	127	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1203.0	1203.0	1209.8	1212.0	1212.0	1208.6	1205.3	1208.6	1218.8	1222.2	1221.1
5°	1198.5	1207.5	1220.0	1222.2	1224.4	1223.3	1221.1	1223.3	1234.6	1236.9	1238.0
7.5°	1189.5	1206.4	1222.2	1225.6	1228.9	1225.6	1224.4	1226.7	1238.0	1240.2	1240.2
10°	1178.2	1201.8	1220.0	1222.2	1225.6	1222.2	1222.2	1226.7	1238.0	1240.2	1241.4
12.5°	1162.4	1195.1	1212.0	1214.3	1218.8	1217.6	1216.5	1221.1	1232.3	1234.6	1234.6
15°	1144.3	1182.7	1198.5	1200.7	1208.6	1206.4	1206.4	1210.9	1223.3	1226.7	1225.6
17.5°	1119.5	1166.9	1184.9	1188.3	1194.0	1192.8	1194.0	1198.5	1209.8	1212.0	1213.1
20°	1091.2	1145.5	1166.9	1170.2	1175.9	1175.9	1175.9	1181.5	1192.8	1197.3	1197.3
22.5°	1052.9	1122.8	1145.5	1147.7	1154.4	1154.4	1156.7	1164.6	1174.8	1175.9	1175.9
25°	1007.8	1098.1	1117.2	1124.0	1130.8	1134.1	1137.5	1142.1	1145.5	1144.3	1145.5
27.5°	960.4	1066.5	1091.2	1095.8	1104.8	1108.2	1112.7	1113.9	1115.0	1118.3	1116.1
30°	907.3	1022.4	1059.6	1064.2	1078.8	1081.1	1076.6	1078.8	1084.5	1086.8	1089.0
32.5°	847.5	957.0	1026.9	1037.1	1050.7	1043.8	1042.7	1046.1	1055.2	1055.2	1057.4
35°	766.2	906.2	996.5	1005.5	1015.6	1007.8	1012.2	1013.4	1019.1	1022.4	1021.3
37.5°	677.1	862.2	964.9	971.7	979.5	969.3	976.2	979.5	984.0	981.8	981.8
40°	598.1	793.3	927.7	932.1	938.9	931.0	937.7	940.1	942.3	940.1	938.9
42.5°	539.5	717.7	888.1	893.8	889.2	894.9	897.2	901.7	898.3	893.8	893.8
45°	494.3	697.4	845.2	852.0	845.2	854.3	857.6	857.6	847.5	845.2	844.1
47.5°	479.6	656.8	802.4	802.4	799.0	810.2	815.9	808.0	797.8	794.5	794.5
50°	478.5	611.6	743.7	739.2	755.0	768.5	762.9	755.0	747.1	734.6	734.6
52.5°	434.5	556.4	668.1	685.0	709.9	717.7	708.7	700.8	687.2	681.6	677.1
55°	402.9	498.8	599.3	633.1	659.0	669.2	652.3	644.4	624.0	620.7	618.4
57.5°	396.1	415.3	536.1	578.9	610.5	609.4	599.3	584.6	567.7	564.2	563.1
60°	363.3	300.1	468.3	519.1	551.9	548.4	539.5	525.9	510.1	507.9	505.6
62.5°	329.5	217.8	391.6	449.2	495.4	494.3	486.4	466.1	454.8	449.2	444.7
65°	279.9	182.8	278.7	373.5	440.1	442.4	425.4	410.8	398.4	391.6	390.4
67.5°	213.3	149.0	188.4	311.5	387.1	384.8	363.3	356.6	340.8	337.4	330.6
70°	158.0	99.3	130.9	252.8	335.2	329.5	312.6	304.7	290.1	282.1	277.6
72.5°	130.9	80.1	95.9	196.4	282.1	275.4	260.7	251.6	239.2	232.5	228.0
75°	106.1	84.6	73.4	145.5	229.1	224.6	211.1	202.0	191.8	182.8	184.0
77.5°	77.9	79.0	58.7	107.2	181.7	174.9	167.0	155.7	151.2	142.2	142.2
80°	58.7	62.1	44.0	73.4	130.9	130.9	124.1	116.2	108.3	103.9	103.9
82.5°	39.5	39.5	32.7	46.3	89.2	85.8	81.2	79.0	74.5	72.3	72.3
85°	18.0	22.5	20.3	28.2	48.5	50.8	50.8	48.5	47.4	45.1	46.3
87.5°	5.6	10.2	12.4	15.8	24.9	26.0	27.1	27.1	27.1	28.2	28.2
90°	0.9	1.5	2.2	2.4	3.8	5.6	6.5	5.8	4.4	3.2	3.2
92.5°	3.4	9.2	15.0	16.5	23.2	32.2	36.6	32.1	23.1	16.2	15.5
95°	8.2	18.9	29.6	32.2	57.1	90.4	107.0	95.5	72.4	55.2	53.2
97.5°	14.2	23.6	33.0	35.4	77.0	132.4	160.1	152.9	138.3	127.4	123.6
100°	18.8	27.3	35.9	38.0	84.1	145.7	176.5	177.0	178.1	178.9	174.4
102.5°	22.7	30.7	38.7	40.7	87.5	149.9	181.1	190.4	208.9	222.8	219.0
105°	29.5	36.2	42.9	44.6	89.9	150.3	180.6	201.4	243.0	274.2	272.1
107.5°	36.3	42.5	48.9	50.4	90.4	143.7	170.3	199.4	257.3	300.9	301.4
110°	40.9	46.5	52.2	53.6	89.7	137.8	161.8	194.2	259.1	307.7	309.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	45.4	50.8	56.2	57.6	89.7	132.6	154.0	187.2	253.6	303.4	306.6
115°	52.3	57.2	62.2	63.5	90.5	126.7	144.7	176.6	240.6	288.5	293.1
117.5°	59.0	63.5	68.1	69.2	92.2	122.9	138.3	167.2	224.8	268.1	273.2
120°	62.9	67.2	71.5	72.5	93.5	121.6	135.6	162.0	214.8	254.4	259.2
122.5°	66.8	71.1	75.3	76.4	95.5	120.9	133.7	157.4	204.9	240.5	245.3
125°	72.7	76.6	80.5	81.6	98.2	120.4	131.5	151.7	192.1	222.3	226.8
127.5°	77.5	81.5	85.4	86.4	100.9	120.1	129.7	147.1	181.8	207.7	211.5
130°	80.0	84.3	88.6	89.7	102.8	120.3	129.1	144.5	175.4	198.5	201.9
132.5°	82.8	87.0	91.3	92.3	104.4	120.4	128.5	142.3	169.9	190.6	193.7
135°	86.7	90.5	94.5	95.4	106.1	120.3	127.4	139.0	162.1	179.5	182.1
137.5°	90.7	94.6	98.4	99.3	108.6	121.0	127.3	137.0	156.6	171.3	173.5
140°	94.0	97.5	101.1	102.0	110.2	121.2	126.7	135.1	152.0	164.7	166.7
142.5°	96.6	99.8	103.1	103.9	111.5	121.6	126.7	134.1	149.0	160.1	161.9
145°	100.5	103.3	106.3	106.9	113.3	121.6	125.8	131.9	144.0	153.1	154.5
147.5°	104.5	107.2	110.0	110.7	115.7	122.5	125.8	130.6	140.2	147.3	148.4
150°	107.0	109.5	112.1	112.7	117.0	122.9	125.8	129.8	137.9	144.0	144.9
152.5°	109.7	111.5	113.4	113.9	117.9	123.2	125.8	129.2	136.1	141.4	142.0
155°	113.6	115.0	116.4	116.8	119.7	123.8	125.8	128.5	134.1	138.2	138.6
157.5°	116.5	117.9	119.2	119.6	121.6	124.4	125.8	127.9	132.2	135.4	135.7
160°	118.5	119.5	120.6	120.9	122.5	124.7	125.8	127.6	131.3	134.0	134.2
162.5°	120.4	121.2	122.1	122.2	123.4	125.0	125.8	127.4	130.4	132.7	132.9
165°	122.6	123.3	124.0	124.2	124.7	125.5	125.8	126.9	129.1	130.8	130.9
167.5°	124.5	124.9	125.2	125.3	125.7	126.3	126.7	127.4	128.8	129.9	130.0
170°	125.8	126.2	126.5	126.6	126.6	126.7	126.7	127.4	128.8	129.9	129.9
172.5°	126.5	126.6	126.7	126.7	126.7	126.7	126.7	127.3	128.4	129.2	129.1
175°	127.4	127.4	127.4	127.4	127.2	126.8	126.7	127.0	127.8	128.3	128.3
177.5°	127.4	127.4	127.4	127.4	127.3	127.0	126.8	127.1	127.7	128.1	128.0
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1223.3	1220.0	1223.3	1221.1	1222.2	1218.8	1208.6	1205.3	1208.6	1212.0	1212.0
5°	1238.0	1235.8	1238.0	1238.0	1236.9	1234.6	1223.3	1221.1	1223.3	1224.4	1222.2
7.5°	1242.5	1239.1	1242.5	1240.2	1240.2	1238.0	1226.7	1224.4	1225.6	1228.9	1225.6
10°	1242.5	1239.1	1242.5	1241.4	1240.2	1238.0	1226.7	1222.2	1222.2	1225.6	1222.2
12.5°	1236.9	1234.6	1236.9	1234.6	1234.6	1232.3	1221.1	1216.5	1217.6	1218.8	1214.3
15°	1227.8	1224.4	1227.8	1225.6	1226.7	1223.3	1210.9	1206.4	1206.4	1208.6	1200.7
17.5°	1214.3	1209.8	1214.3	1213.1	1212.0	1209.8	1198.5	1194.0	1192.8	1194.0	1188.3
20°	1198.5	1195.1	1198.5	1197.3	1197.3	1192.8	1181.5	1175.9	1175.9	1175.9	1170.2
22.5°	1173.7	1170.2	1173.7	1175.9	1175.9	1174.8	1164.6	1156.7	1154.4	1154.4	1147.7
25°	1145.5	1142.1	1145.5	1145.5	1144.3	1145.5	1142.1	1137.5	1134.1	1130.8	1124.0
27.5°	1118.3	1116.1	1118.3	1116.1	1118.3	1115.0	1113.9	1112.7	1108.2	1104.8	1095.8
30°	1091.2	1089.0	1091.2	1089.0	1086.8	1084.5	1078.8	1076.6	1081.1	1078.8	1064.2
32.5°	1057.4	1055.2	1057.4	1057.4	1055.2	1055.2	1046.1	1042.7	1043.8	1050.7	1037.1
35°	1022.4	1019.1	1022.4	1021.3	1022.4	1019.1	1013.4	1012.2	1007.8	1015.6	1005.5
37.5°	981.8	978.4	981.8	981.8	981.8	984.0	979.5	976.2	969.3	979.5	971.7
40°	940.1	935.5	940.1	938.9	940.1	942.3	940.1	937.7	931.0	938.9	932.1
42.5°	892.6	891.5	892.6	893.8	893.8	898.3	901.7	897.2	894.9	889.2	893.8
45°	841.8	839.6	841.8	844.1	845.2	847.5	857.6	857.6	854.3	845.2	852.0
47.5°	787.7	782.0	787.7	794.5	794.5	797.8	808.0	815.9	810.2	799.0	802.4
50°	730.1	731.3	730.1	734.6	734.6	747.1	755.0	762.9	768.5	755.0	739.2
52.5°	673.7	672.6	673.7	677.1	681.6	687.2	700.8	708.7	717.7	709.9	685.0
55°	617.3	619.6	617.3	618.4	620.7	624.0	644.4	652.3	669.2	659.0	633.1
57.5°	560.9	557.5	560.9	563.1	564.2	567.7	584.6	599.3	609.4	610.5	578.9
60°	495.4	490.9	495.4	505.6	507.9	510.1	525.9	539.5	548.4	551.9	519.1
62.5°	437.8	430.0	437.8	444.7	449.2	454.8	466.1	486.4	494.3	495.4	449.2
65°	376.9	373.5	376.9	390.4	391.6	398.4	410.8	425.4	442.4	440.1	373.5
67.5°	321.7	321.7	321.7	330.6	337.4	340.8	356.6	363.3	384.8	387.1	311.5
70°	270.8	269.7	270.8	277.6	282.1	290.1	304.7	312.6	329.5	335.2	252.8
72.5°	222.3	221.2	222.3	228.0	232.5	239.2	251.6	260.7	275.4	282.1	196.4
75°	179.5	177.1	179.5	184.0	182.8	191.8	202.0	211.1	224.6	229.1	145.5
77.5°	137.7	137.7	137.7	142.2	142.2	151.2	155.7	167.0	174.9	181.7	107.2
80°	102.7	101.6	102.7	103.9	103.9	108.3	116.2	124.1	130.9	130.9	73.4
82.5°	72.3	70.0	72.3	72.3	72.3	74.5	79.0	81.2	85.8	89.2	46.3
85°	45.1	45.1	45.1	46.3	45.1	47.4	48.5	50.8	50.8	48.5	28.2
87.5°	29.4	28.2	29.4	28.2	28.2	27.1	27.1	27.1	26.0	24.9	15.8
90°	3.2	3.2	3.2	3.2	3.2	4.4	5.8	6.5	5.6	3.8	2.4
92.5°	13.0	10.4	13.0	15.5	16.2	23.1	32.1	36.6	32.2	23.2	16.5
95°	45.4	37.6	45.4	53.2	55.2	72.4	95.5	107.0	90.4	57.1	32.2
97.5°	108.7	93.9	108.7	123.6	127.4	138.3	152.9	160.1	132.4	77.0	35.4
100°	156.7	139.0	156.7	174.4	178.9	178.1	177.0	176.5	145.7	84.1	38.0
102.5°	203.8	188.6	203.8	219.0	222.8	208.9	190.4	181.1	149.9	87.5	40.7
105°	264.0	255.8	264.0	272.1	274.2	243.0	201.4	180.6	150.3	89.9	44.6
107.5°	303.4	305.4	303.4	301.4	300.9	257.3	199.4	170.3	143.7	90.4	50.4
110°	318.3	326.9	318.3	309.9	307.7	259.1	194.2	161.8	137.8	89.7	53.6



TEST NUMBER: P934031

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	319.7	332.8	319.7	306.6	303.4	253.6	187.2	154.0	132.6	89.7	57.6
115°	311.2	329.4	311.2	293.1	288.5	240.6	176.6	144.7	126.7	90.5	63.5
117.5°	293.2	313.4	293.2	273.2	268.1	224.8	167.2	138.3	122.9	92.2	69.2
120°	278.8	298.3	278.8	259.2	254.4	214.8	162.0	135.6	121.6	93.5	72.5
122.5°	264.6	283.9	264.6	245.3	240.5	204.9	157.4	133.7	120.9	95.5	76.4
125°	244.5	262.3	244.5	226.8	222.3	192.1	151.7	131.5	120.4	98.2	81.6
127.5°	226.4	241.4	226.4	211.5	207.7	181.8	147.1	129.7	120.1	100.9	86.4
130°	215.8	229.6	215.8	201.9	198.5	175.4	144.5	129.1	120.3	102.8	89.7
132.5°	206.1	218.5	206.1	193.7	190.6	169.9	142.3	128.5	120.4	104.4	92.3
135°	192.9	203.5	192.9	182.1	179.5	162.1	139.0	127.4	120.3	106.1	95.4
137.5°	182.2	191.0	182.2	173.5	171.3	156.6	137.0	127.3	121.0	108.6	99.3
140°	174.8	183.0	174.8	166.7	164.7	152.0	135.1	126.7	121.2	110.2	102.0
142.5°	168.9	175.9	168.9	161.9	160.1	149.0	134.1	126.7	121.6	111.5	103.9
145°	159.8	165.1	159.8	154.5	153.1	144.0	131.9	125.8	121.6	113.3	106.9
147.5°	152.8	157.2	152.8	148.4	147.3	140.2	130.6	125.8	122.5	115.7	110.7
150°	148.4	152.0	148.4	144.9	144.0	137.9	129.8	125.8	122.9	117.0	112.7
152.5°	144.7	147.4	144.7	142.0	141.4	136.1	129.2	125.8	123.2	117.9	113.9
155°	140.4	142.2	140.4	138.6	138.2	134.1	128.5	125.8	123.8	119.7	116.8
157.5°	137.0	138.3	137.0	135.7	135.4	132.2	127.9	125.8	124.4	121.6	119.6
160°	135.0	135.6	135.0	134.2	134.0	131.3	127.6	125.8	124.7	122.5	120.9
162.5°	133.6	134.3	133.6	132.9	132.7	130.4	127.4	125.8	125.0	123.4	122.2
165°	131.7	132.4	131.7	130.9	130.8	129.1	126.9	125.8	125.5	124.7	124.2
167.5°	130.3	130.6	130.3	130.0	129.9	128.8	127.4	126.7	126.3	125.7	125.3
170°	129.9	129.9	129.9	129.9	129.9	128.8	127.4	126.7	126.7	126.6	126.6
172.5°	128.9	128.6	128.9	129.1	129.2	128.4	127.3	126.7	126.7	126.7	126.7
175°	128.3	128.3	128.3	128.3	128.3	127.8	127.0	126.7	126.8	127.2	127.4
177.5°	127.8	127.4	127.8	128.0	128.1	127.7	127.1	126.8	127.0	127.3	127.4
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



TEST NUMBER: P934031

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1209.8	1203.0	1203.0	1191.7	1187.2	1183.8	1178.2	1161.3	1156.7	1152.2	1159.0
5°	1220.0	1207.5	1198.5	1178.2	1161.3	1154.4	1133.0	1092.4	1065.3	1045.0	1033.8
7.5°	1222.2	1206.4	1189.5	1157.9	1117.2	1099.2	1033.8	959.3	938.9	920.8	909.6
10°	1220.0	1201.8	1178.2	1130.8	1034.9	1003.3	937.7	889.2	876.8	873.4	876.8
12.5°	1212.0	1195.1	1162.4	1083.4	949.1	927.7	889.2	861.0	858.8	864.5	894.9
15°	1198.5	1182.7	1144.3	1020.2	901.7	885.9	858.8	848.7	861.0	900.5	992.0
17.5°	1184.9	1166.9	1119.5	958.1	865.6	854.3	835.1	855.4	925.4	978.4	1008.9
20°	1166.9	1145.5	1091.2	913.0	839.6	829.4	820.4	911.9	964.9	984.0	1001.0
22.5°	1145.5	1122.8	1052.9	881.4	812.5	804.6	810.2	943.5	964.9	978.4	993.1
25°	1117.2	1098.1	1007.8	856.5	791.1	782.0	803.5	940.1	952.4	955.9	985.2
27.5°	1091.2	1066.5	960.4	834.0	765.1	761.7	809.1	925.4	934.4	937.7	969.3
30°	1059.6	1022.4	907.3	810.2	738.1	736.9	810.2	907.3	905.0	914.1	945.7
32.5°	1026.9	957.0	847.5	780.9	712.1	711.0	802.4	880.3	878.0	890.4	914.1
35°	996.5	906.2	766.2	747.1	679.4	680.5	783.1	848.7	849.8	861.0	875.7
37.5°	964.9	862.2	677.1	709.9	647.8	647.8	757.2	819.3	817.1	820.4	840.7
40°	927.7	793.3	598.1	661.3	618.4	615.1	725.7	787.7	779.8	778.7	806.9
42.5°	888.1	717.7	539.5	597.0	584.6	580.0	687.2	749.3	734.6	738.1	774.2
45°	845.2	697.4	494.3	504.4	549.5	546.2	645.5	705.3	695.2	704.2	741.5
47.5°	802.4	656.8	479.6	418.7	512.3	511.2	599.3	662.5	656.8	665.8	705.3
50°	743.7	611.6	478.5	358.9	470.6	475.1	543.9	620.7	620.7	628.6	670.3
52.5°	668.1	556.4	434.5	325.0	422.0	435.6	495.4	584.6	586.8	594.7	632.0
55°	599.3	498.8	402.9	299.0	364.5	393.8	448.0	547.3	551.9	559.7	593.6
57.5°	536.1	415.3	396.1	268.6	311.5	339.7	406.2	511.2	513.5	520.2	553.0
60°	468.3	300.1	363.3	235.8	265.2	286.6	367.9	468.3	476.3	480.7	509.0
62.5°	391.6	217.8	329.5	213.3	242.7	247.2	336.3	427.7	437.8	441.2	458.2
65°	278.7	182.8	279.9	194.1	218.9	220.0	302.4	386.0	394.9	400.6	413.1
67.5°	188.4	149.0	213.3	176.0	200.9	202.0	269.7	337.4	349.9	354.4	362.2
70°	130.9	99.3	158.0	156.9	180.6	182.8	234.7	293.4	304.7	308.1	312.6
72.5°	95.9	80.1	130.9	141.1	159.1	161.3	198.6	243.8	255.0	258.5	260.7
75°	73.4	84.6	106.1	123.0	135.4	136.6	162.5	198.6	206.5	208.7	209.9
77.5°	58.7	79.0	77.9	99.3	110.6	108.3	127.5	153.5	160.2	160.2	160.2
80°	44.0	62.1	58.7	71.1	81.2	79.0	91.4	109.5	111.7	113.9	112.8
82.5°	32.7	39.5	39.5	45.1	54.2	51.9	60.9	71.1	71.1	71.1	73.4
85°	20.3	22.5	18.0	23.7	30.5	29.4	33.8	38.4	39.5	39.5	37.2
87.5°	12.4	10.2	5.6	9.1	13.6	13.6	15.8	16.9	15.8	15.8	15.8
90°	2.2	1.5	0.9	1.5	2.2	2.4	3.8	5.6	6.5	5.8	4.4
92.5°	15.0	9.2	3.4	9.2	15.0	16.5	23.2	32.2	36.6	32.1	23.1
95°	29.6	18.9	8.2	18.9	29.6	32.2	57.1	90.4	107.0	95.5	72.4
97.5°	33.0	23.6	14.2	23.6	33.0	35.4	77.0	132.4	160.1	152.9	138.3
100°	35.9	27.3	18.8	27.3	35.9	38.0	84.1	145.7	176.5	177.0	178.1
102.5°	38.7	30.7	22.7	30.7	38.7	40.7	87.5	149.9	181.1	190.4	208.9
105°	42.9	36.2	29.5	36.2	42.9	44.6	89.9	150.3	180.6	201.4	243.0
107.5°	48.9	42.5	36.3	42.5	48.9	50.4	90.4	143.7	170.3	199.4	257.3
110°	52.2	46.5	40.9	46.5	52.2	53.6	89.7	137.8	161.8	194.2	259.1



TEST NUMBER: P934031

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	56.2	50.8	45.4	50.8	56.2	57.6	89.7	132.6	154.0	187.2	253.6
115°	62.2	57.2	52.3	57.2	62.2	63.5	90.5	126.7	144.7	176.6	240.6
117.5°	68.1	63.5	59.0	63.5	68.1	69.2	92.2	122.9	138.3	167.2	224.8
120°	71.5	67.2	62.9	67.2	71.5	72.5	93.5	121.6	135.6	162.0	214.8
122.5°	75.3	71.1	66.8	71.1	75.3	76.4	95.5	120.9	133.7	157.4	204.9
125°	80.5	76.6	72.7	76.6	80.5	81.6	98.2	120.4	131.5	151.7	192.1
127.5°	85.4	81.5	77.5	81.5	85.4	86.4	100.9	120.1	129.7	147.1	181.8
130°	88.6	84.3	80.0	84.3	88.6	89.7	102.8	120.3	129.1	144.5	175.4
132.5°	91.3	87.0	82.8	87.0	91.3	92.3	104.4	120.4	128.5	142.3	169.9
135°	94.5	90.5	86.7	90.5	94.5	95.4	106.1	120.3	127.4	139.0	162.1
137.5°	98.4	94.6	90.7	94.6	98.4	99.3	108.6	121.0	127.3	137.0	156.6
140°	101.1	97.5	94.0	97.5	101.1	102.0	110.2	121.2	126.7	135.1	152.0
142.5°	103.1	99.8	96.6	99.8	103.1	103.9	111.5	121.6	126.7	134.1	149.0
145°	106.3	103.3	100.5	103.3	106.3	106.9	113.3	121.6	125.8	131.9	144.0
147.5°	110.0	107.2	104.5	107.2	110.0	110.7	115.7	122.5	125.8	130.6	140.2
150°	112.1	109.5	107.0	109.5	112.1	112.7	117.0	122.9	125.8	129.8	137.9
152.5°	113.4	111.5	109.7	111.5	113.4	113.9	117.9	123.2	125.8	129.2	136.1
155°	116.4	115.0	113.6	115.0	116.4	116.8	119.7	123.8	125.8	128.5	134.1
157.5°	119.2	117.9	116.5	117.9	119.2	119.6	121.6	124.4	125.8	127.9	132.2
160°	120.6	119.5	118.5	119.5	120.6	120.9	122.5	124.7	125.8	127.6	131.3
162.5°	122.1	121.2	120.4	121.2	122.1	122.2	123.4	125.0	125.8	127.4	130.4
165°	124.0	123.3	122.6	123.3	124.0	124.2	124.7	125.5	125.8	126.9	129.1
167.5°	125.2	124.9	124.5	124.9	125.2	125.3	125.7	126.3	126.7	127.4	128.8
170°	126.5	126.2	125.8	126.2	126.5	126.6	126.6	126.7	126.7	127.4	128.8
172.5°	126.7	126.6	126.5	126.6	126.7	126.7	126.7	126.7	126.7	127.3	128.4
175°	127.4	127.4	127.4	127.4	127.4	127.4	127.2	126.8	126.7	127.0	127.8
177.5°	127.4	127.4	127.4	127.4	127.4	127.4	127.3	127.0	126.8	127.1	127.7
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



TEST NUMBER: P934031

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1151.1	1147.7	1152.2	1139.7	1152.2	1147.7	1151.1	1159.0	1152.2	1156.7	1161.3
5°	1010.0	1004.4	986.3	971.7	986.3	1004.4	1010.0	1033.8	1045.0	1065.3	1092.4
7.5°	902.8	898.3	893.8	884.7	893.8	898.3	902.8	909.6	920.8	938.9	959.3
10°	879.1	880.3	887.0	885.9	887.0	880.3	879.1	876.8	873.4	876.8	889.2
12.5°	940.1	950.2	987.5	985.2	987.5	950.2	940.1	894.9	864.5	858.8	861.0
15°	1010.0	1013.4	1021.3	1022.4	1021.3	1013.4	1010.0	992.0	900.5	861.0	848.7
17.5°	1016.8	1017.9	1023.6	1023.6	1023.6	1017.9	1016.8	1008.9	978.4	925.4	855.4
20°	1011.1	1013.4	1024.7	1026.9	1024.7	1013.4	1011.1	1001.0	984.0	964.9	911.9
22.5°	1008.9	1013.4	1022.4	1021.3	1022.4	1013.4	1008.9	993.1	978.4	964.9	943.5
25°	997.6	997.6	998.7	999.8	998.7	997.6	997.6	985.2	955.9	952.4	940.1
27.5°	973.9	976.2	982.9	981.8	982.9	976.2	973.9	969.3	937.7	934.4	925.4
30°	952.4	950.2	944.6	940.1	944.6	950.2	952.4	945.7	914.1	905.0	907.3
32.5°	916.3	910.7	905.0	901.7	905.0	910.7	916.3	914.1	890.4	878.0	880.3
35°	873.4	874.6	873.4	870.1	873.4	874.6	873.4	875.7	861.0	849.8	848.7
37.5°	843.0	845.2	844.1	839.6	844.1	845.2	843.0	840.7	820.4	817.1	819.3
40°	811.4	812.5	811.4	808.0	811.4	812.5	811.4	806.9	778.7	779.8	787.7
42.5°	780.9	779.8	776.4	774.2	776.4	779.8	780.9	774.2	738.1	734.6	749.3
45°	745.9	747.1	740.3	736.9	740.3	747.1	745.9	741.5	704.2	695.2	705.3
47.5°	711.0	711.0	705.3	701.9	705.3	711.0	711.0	705.3	665.8	656.8	662.5
50°	673.7	672.6	664.7	663.6	664.7	672.6	673.7	670.3	628.6	620.7	620.7
52.5°	630.9	630.9	632.0	634.2	632.0	630.9	630.9	632.0	594.7	586.8	584.6
55°	593.6	594.7	602.6	604.9	602.6	594.7	593.6	593.6	559.7	551.9	547.3
57.5°	555.2	555.2	560.9	560.9	560.9	555.2	555.2	553.0	520.2	513.5	511.2
60°	511.2	513.5	517.9	516.8	517.9	513.5	511.2	509.0	480.7	476.3	468.3
62.5°	464.9	467.2	468.3	466.1	468.3	467.2	464.9	458.2	441.2	437.8	427.7
65°	416.4	418.7	419.8	417.6	419.8	418.7	416.4	413.1	400.6	394.9	386.0
67.5°	366.8	365.7	364.5	369.0	364.5	365.7	366.8	362.2	354.4	349.9	337.4
70°	315.9	315.9	314.8	317.1	314.8	315.9	315.9	312.6	308.1	304.7	293.4
72.5°	261.8	260.7	265.2	261.8	265.2	260.7	261.8	260.7	258.5	255.0	243.8
75°	208.7	211.1	208.7	212.2	208.7	211.1	208.7	209.9	208.7	206.5	198.6
77.5°	159.1	161.3	159.1	159.1	159.1	161.3	159.1	160.2	160.2	160.2	153.5
80°	112.8	111.7	111.7	110.6	111.7	111.7	112.8	112.8	113.9	111.7	109.5
82.5°	72.3	71.1	71.1	73.4	71.1	71.1	72.3	73.4	71.1	71.1	71.1
85°	39.5	40.7	38.4	38.4	38.4	40.7	39.5	37.2	39.5	39.5	38.4
87.5°	14.7	13.6	13.6	13.6	13.6	13.6	14.7	15.8	15.8	15.8	16.9
90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.4	5.8	6.5	5.6
92.5°	16.2	15.5	13.0	10.4	13.0	15.5	16.2	23.1	32.1	36.6	32.2
95°	55.2	53.2	45.4	37.6	45.4	53.2	55.2	72.4	95.5	107.0	90.4
97.5°	127.4	123.6	108.7	93.9	108.7	123.6	127.4	138.3	152.9	160.1	132.4
100°	178.9	174.4	156.7	139.0	156.7	174.4	178.9	178.1	177.0	176.5	145.7
102.5°	222.8	219.0	203.8	188.6	203.8	219.0	222.8	208.9	190.4	181.1	149.9
105°	274.2	272.1	264.0	255.8	264.0	272.1	274.2	243.0	201.4	180.6	150.3
107.5°	300.9	301.4	303.4	305.4	303.4	301.4	300.9	257.3	199.4	170.3	143.7
110°	307.7	309.9	318.3	326.9	318.3	309.9	307.7	259.1	194.2	161.8	137.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	303.4	306.6	319.7	332.8	319.7	306.6	303.4	253.6	187.2	154.0	132.6
115°	288.5	293.1	311.2	329.4	311.2	293.1	288.5	240.6	176.6	144.7	126.7
117.5°	268.1	273.2	293.2	313.4	293.2	273.2	268.1	224.8	167.2	138.3	122.9
120°	254.4	259.2	278.8	298.3	278.8	259.2	254.4	214.8	162.0	135.6	121.6
122.5°	240.5	245.3	264.6	283.9	264.6	245.3	240.5	204.9	157.4	133.7	120.9
125°	222.3	226.8	244.5	262.3	244.5	226.8	222.3	192.1	151.7	131.5	120.4
127.5°	207.7	211.5	226.4	241.4	226.4	211.5	207.7	181.8	147.1	129.7	120.1
130°	198.5	201.9	215.8	229.6	215.8	201.9	198.5	175.4	144.5	129.1	120.3
132.5°	190.6	193.7	206.1	218.5	206.1	193.7	190.6	169.9	142.3	128.5	120.4
135°	179.5	182.1	192.9	203.5	192.9	182.1	179.5	162.1	139.0	127.4	120.3
137.5°	171.3	173.5	182.2	191.0	182.2	173.5	171.3	156.6	137.0	127.3	121.0
140°	164.7	166.7	174.8	183.0	174.8	166.7	164.7	152.0	135.1	126.7	121.2
142.5°	160.1	161.9	168.9	175.9	168.9	161.9	160.1	149.0	134.1	126.7	121.6
145°	153.1	154.5	159.8	165.1	159.8	154.5	153.1	144.0	131.9	125.8	121.6
147.5°	147.3	148.4	152.8	157.2	152.8	148.4	147.3	140.2	130.6	125.8	122.5
150°	144.0	144.9	148.4	152.0	148.4	144.9	144.0	137.9	129.8	125.8	122.9
152.5°	141.4	142.0	144.7	147.4	144.7	142.0	141.4	136.1	129.2	125.8	123.2
155°	138.2	138.6	140.4	142.2	140.4	138.6	138.2	134.1	128.5	125.8	123.8
157.5°	135.4	135.7	137.0	138.3	137.0	135.7	135.4	132.2	127.9	125.8	124.4
160°	134.0	134.2	135.0	135.6	135.0	134.2	134.0	131.3	127.6	125.8	124.7
162.5°	132.7	132.9	133.6	134.3	133.6	132.9	132.7	130.4	127.4	125.8	125.0
165°	130.8	130.9	131.7	132.4	131.7	130.9	130.8	129.1	126.9	125.8	125.5
167.5°	129.9	130.0	130.3	130.6	130.3	130.0	129.9	128.8	127.4	126.7	126.3
170°	129.9	129.9	129.9	129.9	129.9	129.9	129.9	128.8	127.4	126.7	126.7
172.5°	129.2	129.1	128.9	128.6	128.9	129.1	129.2	128.4	127.3	126.7	126.7
175°	128.3	128.3	128.3	128.3	128.3	128.3	128.3	127.8	127.0	126.7	126.8
177.5°	128.1	128.0	127.8	127.4	127.8	128.0	128.1	127.7	127.1	126.8	127.0
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1192.8	1192.8	1192.8	1192.8	1192.8
2.5°	1178.2	1183.8	1187.2	1191.7	1203.0
5°	1133.0	1154.4	1161.3	1178.2	1198.5
7.5°	1033.8	1099.2	1117.2	1157.9	1189.5
10°	937.7	1003.3	1034.9	1130.8	1178.2
12.5°	889.2	927.7	949.1	1083.4	1162.4
15°	858.8	885.9	901.7	1020.2	1144.3
17.5°	835.1	854.3	865.6	958.1	1119.5
20°	820.4	829.4	839.6	913.0	1091.2
22.5°	810.2	804.6	812.5	881.4	1052.9
25°	803.5	782.0	791.1	856.5	1007.8
27.5°	809.1	761.7	765.1	834.0	960.4
30°	810.2	736.9	738.1	810.2	907.3
32.5°	802.4	711.0	712.1	780.9	847.5
35°	783.1	680.5	679.4	747.1	766.2
37.5°	757.2	647.8	647.8	709.9	677.1
40°	725.7	615.1	618.4	661.3	598.1
42.5°	687.2	580.0	584.6	597.0	539.5
45°	645.5	546.2	549.5	504.4	494.3
47.5°	599.3	511.2	512.3	418.7	479.6
50°	543.9	475.1	470.6	358.9	478.5
52.5°	495.4	435.6	422.0	325.0	434.5
55°	448.0	393.8	364.5	299.0	402.9
57.5°	406.2	339.7	311.5	268.6	396.1
60°	367.9	286.6	265.2	235.8	363.3
62.5°	336.3	247.2	242.7	213.3	329.5
65°	302.4	220.0	218.9	194.1	279.9
67.5°	269.7	202.0	200.9	176.0	213.3
70°	234.7	182.8	180.6	156.9	158.0
72.5°	198.6	161.3	159.1	141.1	130.9
75°	162.5	136.6	135.4	123.0	106.1
77.5°	127.5	108.3	110.6	99.3	77.9
80°	91.4	79.0	81.2	71.1	58.7
82.5°	60.9	51.9	54.2	45.1	39.5
85°	33.8	29.4	30.5	23.7	18.0
87.5°	15.8	13.6	13.6	9.1	5.6
90°	3.8	2.4	2.2	1.5	0.9
92.5°	23.2	16.5	15.0	9.2	3.4
95°	57.1	32.2	29.6	18.9	8.2
97.5°	77.0	35.4	33.0	23.6	14.2
100°	84.1	38.0	35.9	27.3	18.8
102.5°	87.5	40.7	38.7	30.7	22.7
105°	89.9	44.6	42.9	36.2	29.5
107.5°	90.4	50.4	48.9	42.5	36.3
110°	89.7	53.6	52.2	46.5	40.9



TEST NUMBER: P934031

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	89.7	57.6	56.2	50.8	45.4
115°	90.5	63.5	62.2	57.2	52.3
117.5°	92.2	69.2	68.1	63.5	59.0
120°	93.5	72.5	71.5	67.2	62.9
122.5°	95.5	76.4	75.3	71.1	66.8
125°	98.2	81.6	80.5	76.6	72.7
127.5°	100.9	86.4	85.4	81.5	77.5
130°	102.8	89.7	88.6	84.3	80.0
132.5°	104.4	92.3	91.3	87.0	82.8
135°	106.1	95.4	94.5	90.5	86.7
137.5°	108.6	99.3	98.4	94.6	90.7
140°	110.2	102.0	101.1	97.5	94.0
142.5°	111.5	103.9	103.1	99.8	96.6
145°	113.3	106.9	106.3	103.3	100.5
147.5°	115.7	110.7	110.0	107.2	104.5
150°	117.0	112.7	112.1	109.5	107.0
152.5°	117.9	113.9	113.4	111.5	109.7
155°	119.7	116.8	116.4	115.0	113.6
157.5°	121.6	119.6	119.2	117.9	116.5
160°	122.5	120.9	120.6	119.5	118.5
162.5°	123.4	122.2	122.1	121.2	120.4
165°	124.7	124.2	124.0	123.3	122.6
167.5°	125.7	125.3	125.2	124.9	124.5
170°	126.6	126.6	126.5	126.2	125.8
172.5°	126.7	126.7	126.7	126.6	126.5
175°	127.2	127.4	127.4	127.4	127.4
177.5°	127.3	127.4	127.4	127.4	127.4
180°	127.4	127.4	127.4	127.4	127.4



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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	15.48	16.68	16.14	17.36	18.15	18.28	19.48	18.94	20.15	20.94
	3H	15.98	17.06	16.66	17.75	18.57	19.64	20.72	20.31	21.40	22.23
	4H	16.19	17.21	16.88	17.90	18.74	20.09	21.11	20.79	21.81	22.64
	6H	16.33	17.26	17.03	17.97	18.82	20.39	21.32	21.09	22.03	22.88
	8H	16.34	17.23	17.06	17.96	18.81	20.47	21.36	21.19	22.09	22.94
	12H	16.32	17.17	17.04	17.90	18.78	20.51	21.36	21.24	22.09	22.97
4H	2H	16.55	17.56	17.24	18.26	19.10	18.73	19.74	19.43	20.44	21.28
	3H	17.60	18.45	18.31	19.19	20.04	20.26	21.10	20.97	21.84	22.69
	4H	17.89	18.66	18.62	19.40	20.28	20.79	21.56	21.52	22.30	23.18
	6H	18.04	18.70	18.78	19.47	20.36	21.17	21.83	21.91	22.60	23.49
	8H	18.05	18.67	18.80	19.43	20.34	21.28	21.90	22.03	22.66	23.56
	12H	18.03	18.59	18.81	19.38	20.29	21.35	21.91	22.12	22.69	23.60
8H	4H	18.37	18.99	19.12	19.75	20.66	20.94	21.57	21.69	22.33	23.23
	6H	18.64	19.16	19.42	19.96	20.87	21.39	21.90	22.17	22.70	23.61
	8H	18.69	19.15	19.48	19.95	20.87	21.54	22.00	22.33	22.80	23.72
	12H	18.69	19.09	19.48	19.89	20.87	21.64	22.05	22.44	22.84	23.82
12H	4H	18.39	18.95	19.16	19.73	20.64	20.92	21.48	21.70	22.27	23.18
	6H	18.71	19.17	19.50	19.97	20.89	21.39	21.85	22.18	22.65	23.57
	8H	18.79	19.19	19.58	19.99	20.97	21.56	21.96	22.35	22.76	23.74