

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: P934059

Luminaire Tested: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934059
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-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

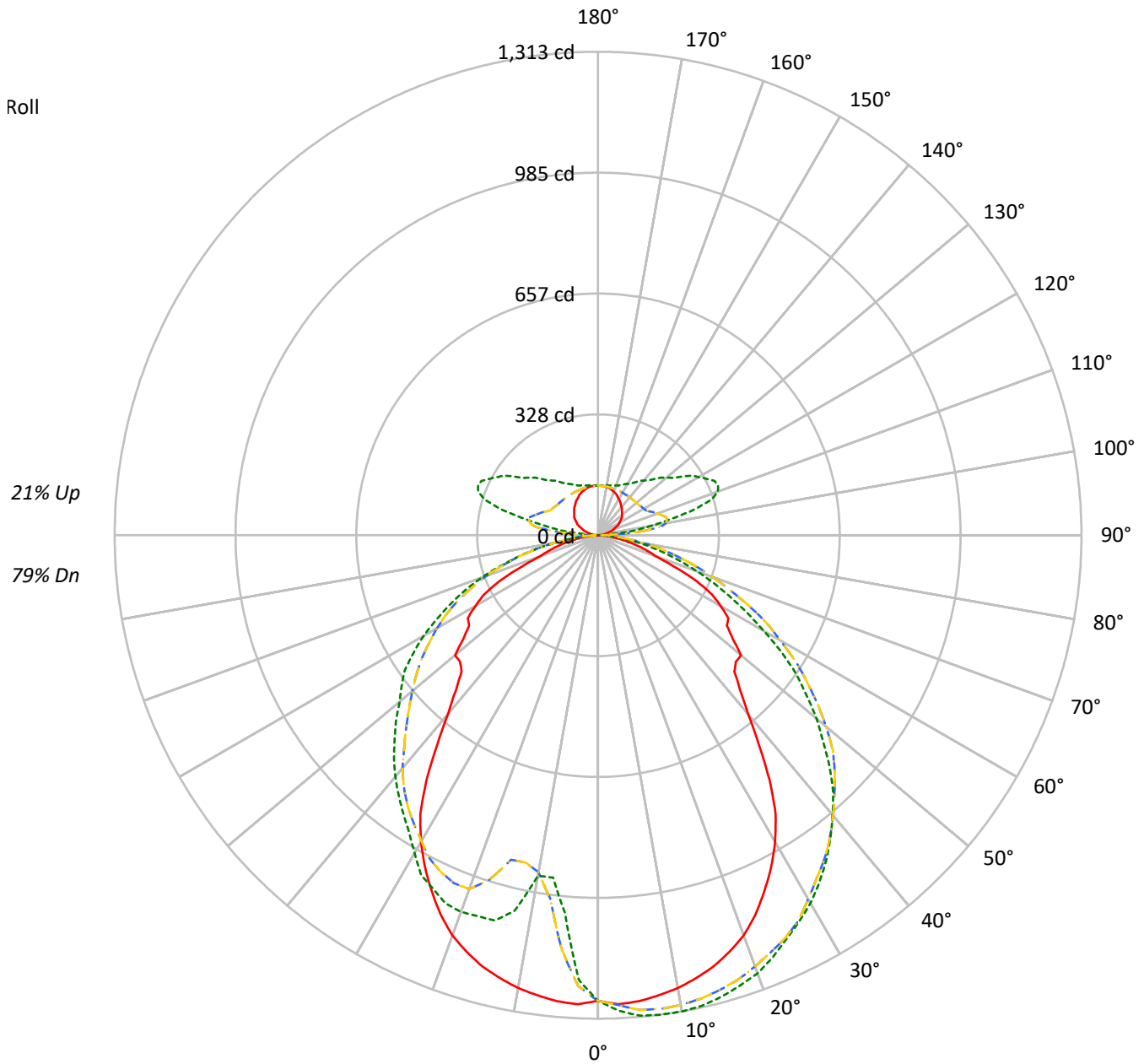
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4153.7 lumens
Efficiency: N/A
Efficacy: 107.1 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°	11730	11730	11730	11730
5°	11805	11841	11805	9310
10°	11713	11663	11713	8339
15°	11571	11410	11571	9528
20°	11316	11112	11316	9548
25°	10809	10675	10809	9346
30°	10157	10313	10157	8902
35°	9040	9854	9040	8414
40°	7521	9314	7521	8045
45°	6706	8683	6706	7621
50°	7109	7929	7109	7195
55°	6670	7117	6670	6948
60°	6850	6044	6850	6364
65°	6181	4996	6181	5585
70°	4252	3982	4252	4682
75°	3686	2943	3686	3524
80°	2911	1945	2911	2119
85°	1582	1030	1582	875

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10298 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	2.7
10°-20°	324.0	7.8
20°-30°	500.8	12.1
30°-40°	597.9	14.4
40°-50°	601.4	14.5
50°-60°	523.3	12.6
60°-70°	371.0	8.9
70°-80°	196.3	4.7
80°-90°	49.4	1.2
90°-100°	65.8	1.6
100°-110°	173.1	4.2
110°-120°	179.5	4.3
120°-130°	144.0	3.5
130°-140°	113.0	2.7
140°-150°	86.7	2.1
150°-160°	62.4	1.5
160°-170°	38.2	0.9
170°-180°	12.9	0.3
0°-30°	938.9	22.6
0°-40°	1536.8	37.0
0°-60°	2661.4	64.1
0°-90°	3278.1	78.9
90°-120°	418.5	10.1
90°-150°	762.1	18.3
90°-180°	876.0	21.1
0°-180°	4153.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1264	1264	1264	1264	1264	
5°	1270	1310	1270	1030	1270	120
15°	1213	1298	1213	1084	1213	341
25°	1068	1210	1068	1060	1068	490
35°	812	1080	812	922	812	502
45°	524	890	524	781	524	420
55°	427	657	427	641	427	392
65°	297	396	297	442	297	283
75°	112	188	112	225	112	118
85°	19	48	19	41	19	26
90°	1	3	1	3	1	2
95°	9	40	9	40	9	10
105°	31	271	31	271	31	33
115°	55	349	55	349	55	55
125°	77	278	77	278	77	68
135°	92	216	92	216	92	71
145°	106	175	106	175	106	67
155°	120	151	120	151	120	55
165°	130	140	130	140	130	37
175°	135	136	135	136	135	13
180°	135	135	135	135	135	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1274.8	1274.8	1282.1	1284.4	1284.4	1280.8	1277.3	1280.8	1291.6	1295.2	1294.0
5°	1270.1	1279.6	1292.8	1295.2	1297.5	1296.4	1294.0	1296.4	1308.3	1310.8	1311.9
7.5°	1260.5	1278.4	1295.2	1298.8	1302.3	1298.8	1297.5	1300.0	1311.9	1314.3	1314.3
10°	1248.6	1273.7	1292.8	1295.2	1298.8	1295.2	1295.2	1300.0	1311.9	1314.3	1315.6
12.5°	1231.8	1266.5	1284.4	1286.9	1291.6	1290.4	1289.2	1294.0	1306.0	1308.3	1308.3
15°	1212.6	1253.4	1270.1	1272.5	1280.8	1278.4	1278.4	1283.2	1296.4	1300.0	1298.8
17.5°	1186.4	1236.6	1255.7	1259.4	1265.3	1264.1	1265.3	1270.1	1282.1	1284.4	1285.6
20°	1156.4	1213.9	1236.6	1240.2	1246.1	1246.1	1246.1	1252.1	1264.1	1268.9	1268.9
22.5°	1115.8	1189.9	1213.9	1216.3	1223.4	1223.4	1225.9	1234.2	1245.0	1246.1	1246.1
25°	1068.0	1163.7	1184.0	1191.2	1198.3	1201.9	1205.5	1210.3	1213.9	1212.6	1213.9
27.5°	1017.8	1130.2	1156.4	1161.2	1170.8	1174.4	1179.2	1180.4	1181.6	1185.1	1182.8
30°	961.6	1083.5	1122.9	1127.7	1143.3	1145.7	1141.0	1143.3	1149.3	1151.7	1154.1
32.5°	898.1	1014.1	1088.3	1099.0	1113.4	1106.2	1105.0	1108.6	1118.2	1118.2	1120.6
35°	812.0	960.4	1056.1	1065.6	1076.3	1068.0	1072.7	1074.0	1079.9	1083.5	1082.3
37.5°	717.5	913.7	1022.6	1029.7	1038.0	1027.3	1034.5	1038.0	1042.8	1040.5	1040.5
40°	633.9	840.7	983.1	987.8	995.0	986.6	993.8	996.2	998.6	996.2	995.0
42.5°	571.7	760.6	941.2	947.2	942.4	948.3	950.8	955.6	952.0	947.2	947.2
45°	523.8	739.1	895.7	902.9	895.7	905.3	908.9	908.9	898.1	895.7	894.6
47.5°	508.2	696.1	850.3	850.3	846.7	858.6	864.7	856.3	845.5	842.0	842.0
50°	507.1	648.2	788.1	783.3	800.1	814.5	808.5	800.1	791.7	778.5	778.5
52.5°	460.5	589.6	708.0	725.9	752.3	760.6	751.0	742.7	728.3	722.3	717.5
55°	427.0	528.6	635.1	670.9	698.4	709.2	691.3	682.9	661.3	657.8	655.3
57.5°	419.8	440.1	568.1	613.5	647.0	645.8	635.1	619.5	601.6	597.9	596.8
60°	385.1	318.1	496.3	550.2	584.8	581.2	571.7	557.3	540.6	538.2	535.8
62.5°	349.2	230.8	415.0	476.0	525.0	523.8	515.5	493.9	482.0	476.0	471.2
65°	296.6	193.7	295.4	395.8	466.4	468.8	450.9	435.3	422.2	415.0	413.7
67.5°	226.0	157.9	199.7	330.1	410.2	407.8	385.1	377.9	361.2	357.5	350.4
70°	167.5	105.3	138.8	267.9	355.2	349.2	331.3	322.9	307.4	299.0	294.2
72.5°	138.8	84.9	101.6	208.1	299.0	291.8	276.3	266.7	253.5	246.4	241.6
75°	112.4	89.7	77.8	154.2	242.8	238.0	223.7	214.1	203.3	193.7	195.0
77.5°	82.6	83.7	62.2	113.6	192.5	185.4	177.0	165.0	160.2	150.7	150.7
80°	62.2	65.8	46.6	77.8	138.8	138.8	131.5	123.2	114.8	110.1	110.1
82.5°	41.8	41.8	34.7	49.1	94.5	90.9	86.1	83.7	78.9	76.6	76.6
85°	19.1	23.9	21.5	29.9	51.4	53.9	53.9	51.4	50.2	47.8	49.1
87.5°	6.0	10.8	13.1	16.7	26.3	27.5	28.7	28.7	28.7	29.9	29.9
90°	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6	3.4	3.4
92.5°	3.6	9.8	15.9	17.5	24.6	34.1	38.8	34.0	24.4	17.2	16.5
95°	8.7	20.0	31.3	34.1	60.6	95.8	113.4	101.2	76.8	58.5	56.4
97.5°	15.0	25.0	34.9	37.5	81.6	140.3	169.7	162.0	146.5	135.0	131.0
100°	19.9	29.0	38.0	40.3	89.2	154.4	187.0	187.5	188.7	189.5	184.8
102.5°	24.1	32.5	41.0	43.1	92.7	158.9	191.9	201.8	221.4	236.2	232.1
105°	31.2	38.4	45.4	47.2	95.3	159.3	191.4	213.4	257.5	290.6	288.4
107.5°	38.5	45.1	51.8	53.4	95.8	152.2	180.5	211.3	272.7	318.9	319.4
110°	43.4	49.3	55.3	56.8	95.0	146.0	171.4	205.8	274.5	326.1	328.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.2	53.9	59.6	61.0	95.0	140.5	163.2	198.4	268.7	321.5	325.0
115°	55.4	60.6	65.9	67.3	95.9	134.2	153.3	187.2	255.0	305.8	310.6
117.5°	62.5	67.3	72.1	73.3	97.8	130.3	146.5	177.1	238.2	284.1	289.5
120°	66.7	71.2	75.8	76.8	99.1	128.9	143.7	171.7	227.6	269.6	274.7
122.5°	70.8	75.3	79.8	81.0	101.2	128.2	141.7	166.8	217.1	254.9	260.0
125°	77.0	81.2	85.4	86.4	104.1	127.6	139.4	160.8	203.6	235.6	240.3
127.5°	82.1	86.4	90.5	91.6	106.9	127.3	137.5	155.9	192.6	220.1	224.1
130°	84.8	89.3	93.9	95.0	109.0	127.5	136.8	153.2	185.8	210.4	214.0
132.5°	87.7	92.2	96.8	97.8	110.6	127.6	136.1	150.8	180.0	202.0	205.3
135°	91.9	95.9	100.1	101.1	112.4	127.5	135.1	147.3	171.8	190.2	193.0
137.5°	96.1	100.2	104.3	105.3	115.1	128.3	134.9	145.2	165.9	181.5	183.8
140°	99.7	103.4	107.2	108.1	116.8	128.4	134.2	143.2	161.1	174.5	176.7
142.5°	102.4	105.8	109.3	110.2	118.2	128.9	134.2	142.1	157.9	169.6	171.5
145°	106.5	109.5	112.6	113.3	120.0	128.9	133.3	139.8	152.6	162.3	163.7
147.5°	110.7	113.6	116.6	117.3	122.6	129.8	133.3	138.4	148.5	156.1	157.3
150°	113.4	116.0	118.8	119.4	124.0	130.3	133.3	137.6	146.2	152.6	153.5
152.5°	116.2	118.2	120.2	120.7	124.9	130.5	133.3	137.0	144.3	149.8	150.5
155°	120.4	121.8	123.4	123.7	126.9	131.2	133.3	136.2	142.1	146.5	146.9
157.5°	123.5	124.9	126.4	126.7	128.9	131.9	133.3	135.6	140.1	143.5	143.8
160°	125.5	126.6	127.8	128.1	129.8	132.2	133.3	135.2	139.1	142.0	142.2
162.5°	127.6	128.4	129.3	129.5	130.8	132.5	133.3	135.0	138.2	140.7	140.8
165°	129.9	130.6	131.4	131.6	132.2	133.0	133.3	134.5	136.9	138.6	138.8
167.5°	132.0	132.3	132.7	132.8	133.2	133.9	134.2	135.0	136.5	137.7	137.8
170°	133.3	133.7	134.1	134.1	134.1	134.2	134.2	135.0	136.5	137.7	137.7
172.5°	134.1	134.1	134.2	134.2	134.2	134.2	134.2	134.9	136.0	137.0	136.9
175°	135.1	135.1	135.1	135.1	134.8	134.4	134.2	134.6	135.4	136.0	136.0
177.5°	135.1	135.1	135.1	135.1	134.9	134.6	134.4	134.7	135.3	135.8	135.7
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1296.4	1292.8	1296.4	1294.0	1295.2	1291.6	1280.8	1277.3	1280.8	1284.4	1284.4
5°	1311.9	1309.6	1311.9	1311.9	1310.8	1308.3	1296.4	1294.0	1296.4	1297.5	1295.2
7.5°	1316.7	1313.1	1316.7	1314.3	1314.3	1311.9	1300.0	1297.5	1298.8	1302.3	1298.8
10°	1316.7	1313.1	1316.7	1315.6	1314.3	1311.9	1300.0	1295.2	1295.2	1298.8	1295.2
12.5°	1310.8	1308.3	1310.8	1308.3	1308.3	1306.0	1294.0	1289.2	1290.4	1291.6	1286.9
15°	1301.2	1297.5	1301.2	1298.8	1300.0	1296.4	1283.2	1278.4	1278.4	1280.8	1272.5
17.5°	1286.9	1282.1	1286.9	1285.6	1284.4	1282.1	1270.1	1265.3	1264.1	1265.3	1259.4
20°	1270.1	1266.5	1270.1	1268.9	1268.9	1264.1	1252.1	1246.1	1246.1	1246.1	1240.2
22.5°	1243.8	1240.2	1243.8	1246.1	1246.1	1245.0	1234.2	1225.9	1223.4	1223.4	1216.3
25°	1213.9	1210.3	1213.9	1213.9	1212.6	1213.9	1210.3	1205.5	1201.9	1198.3	1191.2
27.5°	1185.1	1182.8	1185.1	1182.8	1185.1	1181.6	1180.4	1179.2	1174.4	1170.8	1161.2
30°	1156.4	1154.1	1156.4	1154.1	1151.7	1149.3	1143.3	1141.0	1145.7	1143.3	1127.7
32.5°	1120.6	1118.2	1120.6	1120.6	1118.2	1118.2	1108.6	1105.0	1106.2	1113.4	1099.0
35°	1083.5	1079.9	1083.5	1082.3	1083.5	1079.9	1074.0	1072.7	1068.0	1076.3	1065.6
37.5°	1040.5	1036.9	1040.5	1040.5	1040.5	1042.8	1038.0	1034.5	1027.3	1038.0	1029.7
40°	996.2	991.4	996.2	995.0	996.2	998.6	996.2	993.8	986.6	995.0	987.8
42.5°	946.0	944.8	946.0	947.2	947.2	952.0	955.6	950.8	948.3	942.4	947.2
45°	892.1	889.8	892.1	894.6	895.7	898.1	908.9	908.9	905.3	895.7	902.9
47.5°	834.7	828.8	834.7	842.0	842.0	845.5	856.3	864.7	858.6	846.7	850.3
50°	773.7	775.0	773.7	778.5	778.5	791.7	800.1	808.5	814.5	800.1	783.3
52.5°	714.0	712.8	714.0	717.5	722.3	728.3	742.7	751.0	760.6	752.3	725.9
55°	654.2	656.6	654.2	655.3	657.8	661.3	682.9	691.3	709.2	698.4	670.9
57.5°	594.4	590.8	594.4	596.8	597.9	601.6	619.5	635.1	645.8	647.0	613.5
60°	525.0	520.2	525.0	535.8	538.2	540.6	557.3	571.7	581.2	584.8	550.2
62.5°	464.0	455.7	464.0	471.2	476.0	482.0	493.9	515.5	523.8	525.0	476.0
65°	399.4	395.8	399.4	413.7	415.0	422.2	435.3	450.9	468.8	466.4	395.8
67.5°	340.9	340.9	340.9	350.4	357.5	361.2	377.9	385.1	407.8	410.2	330.1
70°	287.0	285.8	287.0	294.2	299.0	307.4	322.9	331.3	349.2	355.2	267.9
72.5°	235.6	234.4	235.6	241.6	246.4	253.5	266.7	276.3	291.8	299.0	208.1
75°	190.2	187.7	190.2	195.0	193.7	203.3	214.1	223.7	238.0	242.8	154.2
77.5°	145.9	145.9	145.9	150.7	150.7	160.2	165.0	177.0	185.4	192.5	113.6
80°	108.8	107.6	108.8	110.1	110.1	114.8	123.2	131.5	138.8	138.8	77.8
82.5°	76.6	74.1	76.6	76.6	76.6	78.9	83.7	86.1	90.9	94.5	49.1
85°	47.8	47.8	47.8	49.1	47.8	50.2	51.4	53.9	53.9	51.4	29.9
87.5°	31.1	29.9	31.1	29.9	29.9	28.7	28.7	28.7	27.5	26.3	16.7
90°	3.4	3.4	3.4	3.4	3.4	4.6	6.2	6.9	5.9	4.0	2.5
92.5°	13.8	11.0	13.8	16.5	17.2	24.4	34.0	38.8	34.1	24.6	17.5
95°	48.2	39.8	48.2	56.4	58.5	76.8	101.2	113.4	95.8	60.6	34.1
97.5°	115.2	99.5	115.2	131.0	135.0	146.5	162.0	169.7	140.3	81.6	37.5
100°	166.1	147.3	166.1	184.8	189.5	188.7	187.5	187.0	154.4	89.2	40.3
102.5°	216.0	199.9	216.0	232.1	236.2	221.4	201.8	191.9	158.9	92.7	43.1
105°	279.8	271.1	279.8	288.4	290.6	257.5	213.4	191.4	159.3	95.3	47.2
107.5°	321.5	323.6	321.5	319.4	318.9	272.7	211.3	180.5	152.2	95.8	53.4
110°	337.4	346.4	337.4	328.4	326.1	274.5	205.8	171.4	146.0	95.0	56.8



TEST NUMBER: P934059

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	338.8	352.7	338.8	325.0	321.5	268.7	198.4	163.2	140.5	95.0	61.0
115°	329.8	349.0	329.8	310.6	305.8	255.0	187.2	153.3	134.2	95.9	67.3
117.5°	310.7	332.1	310.7	289.5	284.1	238.2	177.1	146.5	130.3	97.8	73.3
120°	295.4	316.1	295.4	274.7	269.6	227.6	171.7	143.7	128.9	99.1	76.8
122.5°	280.4	300.9	280.4	260.0	254.9	217.1	166.8	141.7	128.2	101.2	81.0
125°	259.1	278.0	259.1	240.3	235.6	203.6	160.8	139.4	127.6	104.1	86.4
127.5°	240.0	255.8	240.0	224.1	220.1	192.6	155.9	137.5	127.3	106.9	91.6
130°	228.6	243.3	228.6	214.0	210.4	185.8	153.2	136.8	127.5	109.0	95.0
132.5°	218.4	231.5	218.4	205.3	202.0	180.0	150.8	136.1	127.6	110.6	97.8
135°	204.4	215.7	204.4	193.0	190.2	171.8	147.3	135.1	127.5	112.4	101.1
137.5°	193.1	202.4	193.1	183.8	181.5	165.9	145.2	134.9	128.3	115.1	105.3
140°	185.3	194.0	185.3	176.7	174.5	161.1	143.2	134.2	128.4	116.8	108.1
142.5°	179.0	186.4	179.0	171.5	169.6	157.9	142.1	134.2	128.9	118.2	110.2
145°	169.4	175.0	169.4	163.7	162.3	152.6	139.8	133.3	128.9	120.0	113.3
147.5°	161.9	166.6	161.9	157.3	156.1	148.5	138.4	133.3	129.8	122.6	117.3
150°	157.3	161.1	157.3	153.5	152.6	146.2	137.6	133.3	130.3	124.0	119.4
152.5°	153.3	156.2	153.3	150.5	149.8	144.3	137.0	133.3	130.5	124.9	120.7
155°	148.8	150.7	148.8	146.9	146.5	142.1	136.2	133.3	131.2	126.9	123.7
157.5°	145.2	146.5	145.2	143.8	143.5	140.1	135.6	133.3	131.9	128.9	126.7
160°	143.0	143.7	143.0	142.2	142.0	139.1	135.2	133.3	132.2	129.8	128.1
162.5°	141.6	142.3	141.6	140.8	140.7	138.2	135.0	133.3	132.5	130.8	129.5
165°	139.6	140.3	139.6	138.8	138.6	136.9	134.5	133.3	133.0	132.2	131.6
167.5°	138.0	138.4	138.0	137.8	137.7	136.5	135.0	134.2	133.9	133.2	132.8
170°	137.7	137.7	137.7	137.7	137.7	136.5	135.0	134.2	134.2	134.1	134.1
172.5°	136.6	136.3	136.6	136.9	137.0	136.0	134.9	134.2	134.2	134.2	134.2
175°	136.0	136.0	136.0	136.0	136.0	135.4	134.6	134.2	134.4	134.8	135.1
177.5°	135.4	135.1	135.4	135.7	135.8	135.3	134.7	134.4	134.6	134.9	135.1
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



TEST NUMBER: P934059

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1282.1	1274.8	1274.8	1262.9	1258.1	1254.6	1248.6	1230.7	1225.9	1221.1	1228.2
5°	1292.8	1279.6	1270.1	1248.6	1230.7	1223.4	1200.7	1157.7	1128.9	1107.5	1095.5
7.5°	1295.2	1278.4	1260.5	1227.0	1184.0	1164.9	1095.5	1016.6	995.0	975.9	963.9
10°	1292.8	1273.7	1248.6	1198.3	1096.7	1063.2	993.8	942.4	929.2	925.6	929.2
12.5°	1284.4	1266.5	1231.8	1148.1	1005.8	983.1	942.4	912.5	910.1	916.1	948.3
15°	1270.1	1253.4	1212.6	1081.1	955.6	938.8	910.1	899.4	912.5	954.3	1051.3
17.5°	1255.7	1236.6	1186.4	1015.3	917.3	905.3	885.0	906.5	980.7	1036.9	1069.2
20°	1236.6	1213.9	1156.4	967.5	889.8	879.0	869.4	966.3	1022.6	1042.8	1060.8
22.5°	1213.9	1189.9	1115.8	934.0	861.1	852.7	858.6	999.8	1022.6	1036.9	1052.4
25°	1184.0	1163.7	1068.0	907.7	838.4	828.8	851.5	996.2	1009.3	1013.0	1044.0
27.5°	1156.4	1130.2	1017.8	883.8	810.8	807.2	857.5	980.7	990.2	993.8	1027.3
30°	1122.9	1083.5	961.6	858.6	782.1	781.0	858.6	961.6	959.1	968.7	1002.2
32.5°	1088.3	1014.1	898.1	827.6	754.6	753.5	850.3	932.9	930.4	943.6	968.7
35°	1056.1	960.4	812.0	791.7	720.0	721.1	829.9	899.4	900.5	912.5	928.1
37.5°	1022.6	913.7	717.5	752.3	686.5	686.5	802.4	868.2	865.9	869.4	890.9
40°	983.1	840.7	633.9	700.8	655.3	651.8	769.0	834.7	826.4	825.2	855.1
42.5°	941.2	760.6	571.7	632.6	619.5	614.7	728.3	794.1	778.5	782.1	820.4
45°	895.7	739.1	523.8	534.6	582.4	578.9	684.0	747.5	736.7	746.3	785.8
47.5°	850.3	696.1	508.2	443.7	542.9	541.7	635.1	702.0	696.1	705.6	747.5
50°	788.1	648.2	507.1	380.3	498.7	503.5	576.4	657.8	657.8	666.1	710.4
52.5°	708.0	589.6	460.5	344.4	447.2	461.6	525.0	619.5	621.8	630.3	669.7
55°	635.1	528.6	427.0	316.9	386.3	417.4	474.8	580.0	584.8	593.2	629.1
57.5°	568.1	440.1	419.8	284.7	330.1	360.0	430.5	541.7	544.2	551.3	586.0
60°	496.3	318.1	385.1	249.9	281.1	303.8	389.9	496.3	504.7	509.4	539.4
62.5°	415.0	230.8	349.2	226.0	257.2	262.0	356.4	453.2	464.0	467.6	485.5
65°	295.4	193.7	296.6	205.7	232.0	233.2	320.5	409.0	418.5	424.5	437.7
67.5°	199.7	157.9	226.0	186.6	212.9	214.1	285.8	357.5	370.8	375.6	383.9
70°	138.8	105.3	167.5	166.3	191.4	193.7	248.7	310.9	322.9	326.5	331.3
72.5°	101.6	84.9	138.8	149.5	168.6	171.0	210.4	258.3	270.3	273.9	276.3
75°	77.8	89.7	112.4	130.3	143.5	144.7	172.3	210.4	218.9	221.2	222.4
77.5°	62.2	83.7	82.6	105.3	117.2	114.8	135.1	162.7	169.8	169.8	169.8
80°	46.6	65.8	62.2	75.3	86.1	83.7	96.9	116.0	118.4	120.7	119.6
82.5°	34.7	41.8	41.8	47.8	57.4	55.0	64.5	75.3	75.3	75.3	77.8
85°	21.5	23.9	19.1	25.1	32.3	31.1	35.8	40.6	41.8	41.8	39.5
87.5°	13.1	10.8	6.0	9.6	14.4	14.4	16.7	17.9	16.7	16.7	16.7
90°	2.4	1.6	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6
92.5°	15.9	9.8	3.6	9.8	15.9	17.5	24.6	34.1	38.8	34.0	24.4
95°	31.3	20.0	8.7	20.0	31.3	34.1	60.6	95.8	113.4	101.2	76.8
97.5°	34.9	25.0	15.0	25.0	34.9	37.5	81.6	140.3	169.7	162.0	146.5
100°	38.0	29.0	19.9	29.0	38.0	40.3	89.2	154.4	187.0	187.5	188.7
102.5°	41.0	32.5	24.1	32.5	41.0	43.1	92.7	158.9	191.9	201.8	221.4
105°	45.4	38.4	31.2	38.4	45.4	47.2	95.3	159.3	191.4	213.4	257.5
107.5°	51.8	45.1	38.5	45.1	51.8	53.4	95.8	152.2	180.5	211.3	272.7
110°	55.3	49.3	43.4	49.3	55.3	56.8	95.0	146.0	171.4	205.8	274.5



TEST NUMBER: P934059

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	59.6	53.9	48.2	53.9	59.6	61.0	95.0	140.5	163.2	198.4	268.7
115°	65.9	60.6	55.4	60.6	65.9	67.3	95.9	134.2	153.3	187.2	255.0
117.5°	72.1	67.3	62.5	67.3	72.1	73.3	97.8	130.3	146.5	177.1	238.2
120°	75.8	71.2	66.7	71.2	75.8	76.8	99.1	128.9	143.7	171.7	227.6
122.5°	79.8	75.3	70.8	75.3	79.8	81.0	101.2	128.2	141.7	166.8	217.1
125°	85.4	81.2	77.0	81.2	85.4	86.4	104.1	127.6	139.4	160.8	203.6
127.5°	90.5	86.4	82.1	86.4	90.5	91.6	106.9	127.3	137.5	155.9	192.6
130°	93.9	89.3	84.8	89.3	93.9	95.0	109.0	127.5	136.8	153.2	185.8
132.5°	96.8	92.2	87.7	92.2	96.8	97.8	110.6	127.6	136.1	150.8	180.0
135°	100.1	95.9	91.9	95.9	100.1	101.1	112.4	127.5	135.1	147.3	171.8
137.5°	104.3	100.2	96.1	100.2	104.3	105.3	115.1	128.3	134.9	145.2	165.9
140°	107.2	103.4	99.7	103.4	107.2	108.1	116.8	128.4	134.2	143.2	161.1
142.5°	109.3	105.8	102.4	105.8	109.3	110.2	118.2	128.9	134.2	142.1	157.9
145°	112.6	109.5	106.5	109.5	112.6	113.3	120.0	128.9	133.3	139.8	152.6
147.5°	116.6	113.6	110.7	113.6	116.6	117.3	122.6	129.8	133.3	138.4	148.5
150°	118.8	116.0	113.4	116.0	118.8	119.4	124.0	130.3	133.3	137.6	146.2
152.5°	120.2	118.2	116.2	118.2	120.2	120.7	124.9	130.5	133.3	137.0	144.3
155°	123.4	121.8	120.4	121.8	123.4	123.7	126.9	131.2	133.3	136.2	142.1
157.5°	126.4	124.9	123.5	124.9	126.4	126.7	128.9	131.9	133.3	135.6	140.1
160°	127.8	126.6	125.5	126.6	127.8	128.1	129.8	132.2	133.3	135.2	139.1
162.5°	129.3	128.4	127.6	128.4	129.3	129.5	130.8	132.5	133.3	135.0	138.2
165°	131.4	130.6	129.9	130.6	131.4	131.6	132.2	133.0	133.3	134.5	136.9
167.5°	132.7	132.3	132.0	132.3	132.7	132.8	133.2	133.9	134.2	135.0	136.5
170°	134.1	133.7	133.3	133.7	134.1	134.1	134.1	134.2	134.2	135.0	136.5
172.5°	134.2	134.1	134.1	134.1	134.2	134.2	134.2	134.2	134.2	134.9	136.0
175°	135.1	135.1	135.1	135.1	135.1	135.1	134.8	134.4	134.2	134.6	135.4
177.5°	135.1	135.1	135.1	135.1	135.1	135.1	134.9	134.6	134.4	134.7	135.3
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



TEST NUMBER: P934059

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1219.9	1216.3	1221.1	1207.8	1221.1	1216.3	1219.9	1228.2	1221.1	1225.9	1230.7
5°	1070.4	1064.4	1045.3	1029.7	1045.3	1064.4	1070.4	1095.5	1107.5	1128.9	1157.7
7.5°	956.8	952.0	947.2	937.6	947.2	952.0	956.8	963.9	975.9	995.0	1016.6
10°	931.6	932.9	940.0	938.8	940.0	932.9	931.6	929.2	925.6	929.2	942.4
12.5°	996.2	1007.0	1046.5	1044.0	1046.5	1007.0	996.2	948.3	916.1	910.1	912.5
15°	1070.4	1074.0	1082.3	1083.5	1082.3	1074.0	1070.4	1051.3	954.3	912.5	899.4
17.5°	1077.5	1078.8	1084.7	1084.7	1084.7	1078.8	1077.5	1069.2	1036.9	980.7	906.5
20°	1071.5	1074.0	1085.9	1088.3	1085.9	1074.0	1071.5	1060.8	1042.8	1022.6	966.3
22.5°	1069.2	1074.0	1083.5	1082.3	1083.5	1074.0	1069.2	1052.4	1036.9	1022.6	999.8
25°	1057.2	1057.2	1058.4	1059.6	1058.4	1057.2	1057.2	1044.0	1013.0	1009.3	996.2
27.5°	1032.1	1034.5	1041.7	1040.5	1041.7	1034.5	1032.1	1027.3	993.8	990.2	980.7
30°	1009.3	1007.0	1001.0	996.2	1001.0	1007.0	1009.3	1002.2	968.7	959.1	961.6
32.5°	971.1	965.1	959.1	955.6	959.1	965.1	971.1	968.7	943.6	930.4	932.9
35°	925.6	926.9	925.6	922.1	925.6	926.9	925.6	928.1	912.5	900.5	899.4
37.5°	893.4	895.7	894.6	889.8	894.6	895.7	893.4	890.9	869.4	865.9	868.2
40°	859.9	861.1	859.9	856.3	859.9	861.1	859.9	855.1	825.2	826.4	834.7
42.5°	827.6	826.4	822.8	820.4	822.8	826.4	827.6	820.4	782.1	778.5	794.1
45°	790.5	791.7	784.5	781.0	784.5	791.7	790.5	785.8	746.3	736.7	747.5
47.5°	753.5	753.5	747.5	743.9	747.5	753.5	753.5	747.5	705.6	696.1	702.0
50°	714.0	712.8	704.4	703.2	704.4	712.8	714.0	710.4	666.1	657.8	657.8
52.5°	668.6	668.6	669.7	672.1	669.7	668.6	668.6	669.7	630.3	621.8	619.5
55°	629.1	630.3	638.6	641.0	638.6	630.3	629.1	629.1	593.2	584.8	580.0
57.5°	588.4	588.4	594.4	594.4	594.4	588.4	588.4	586.0	551.3	544.2	541.7
60°	541.7	544.2	548.9	547.7	548.9	544.2	541.7	539.4	509.4	504.7	496.3
62.5°	492.7	495.1	496.3	493.9	496.3	495.1	492.7	485.5	467.6	464.0	453.2
65°	441.3	443.7	444.9	442.5	444.9	443.7	441.3	437.7	424.5	418.5	409.0
67.5°	388.7	387.5	386.3	391.0	386.3	387.5	388.7	383.9	375.6	370.8	357.5
70°	334.8	334.8	333.6	336.1	333.6	334.8	334.8	331.3	326.5	322.9	310.9
72.5°	277.4	276.3	281.1	277.4	281.1	276.3	277.4	276.3	273.9	270.3	258.3
75°	221.2	223.7	221.2	224.8	221.2	223.7	221.2	222.4	221.2	218.9	210.4
77.5°	168.6	171.0	168.6	168.6	168.6	171.0	168.6	169.8	169.8	169.8	162.7
80°	119.6	118.4	118.4	117.2	118.4	118.4	119.6	119.6	120.7	118.4	116.0
82.5°	76.6	75.3	75.3	77.8	75.3	75.3	76.6	77.8	75.3	75.3	75.3
85°	41.8	43.1	40.6	40.6	40.6	43.1	41.8	39.5	41.8	41.8	40.6
87.5°	15.6	14.4	14.4	14.4	14.4	14.4	15.6	16.7	16.7	16.7	17.9
90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	6.2	6.9	5.9
92.5°	17.2	16.5	13.8	11.0	13.8	16.5	17.2	24.4	34.0	38.8	34.1
95°	58.5	56.4	48.2	39.8	48.2	56.4	58.5	76.8	101.2	113.4	95.8
97.5°	135.0	131.0	115.2	99.5	115.2	131.0	135.0	146.5	162.0	169.7	140.3
100°	189.5	184.8	166.1	147.3	166.1	184.8	189.5	188.7	187.5	187.0	154.4
102.5°	236.2	232.1	216.0	199.9	216.0	232.1	236.2	221.4	201.8	191.9	158.9
105°	290.6	288.4	279.8	271.1	279.8	288.4	290.6	257.5	213.4	191.4	159.3
107.5°	318.9	319.4	321.5	323.6	321.5	319.4	318.9	272.7	211.3	180.5	152.2
110°	326.1	328.4	337.4	346.4	337.4	328.4	326.1	274.5	205.8	171.4	146.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	321.5	325.0	338.8	352.7	338.8	325.0	321.5	268.7	198.4	163.2	140.5
115°	305.8	310.6	329.8	349.0	329.8	310.6	305.8	255.0	187.2	153.3	134.2
117.5°	284.1	289.5	310.7	332.1	310.7	289.5	284.1	238.2	177.1	146.5	130.3
120°	269.6	274.7	295.4	316.1	295.4	274.7	269.6	227.6	171.7	143.7	128.9
122.5°	254.9	260.0	280.4	300.9	280.4	260.0	254.9	217.1	166.8	141.7	128.2
125°	235.6	240.3	259.1	278.0	259.1	240.3	235.6	203.6	160.8	139.4	127.6
127.5°	220.1	224.1	240.0	255.8	240.0	224.1	220.1	192.6	155.9	137.5	127.3
130°	210.4	214.0	228.6	243.3	228.6	214.0	210.4	185.8	153.2	136.8	127.5
132.5°	202.0	205.3	218.4	231.5	218.4	205.3	202.0	180.0	150.8	136.1	127.6
135°	190.2	193.0	204.4	215.7	204.4	193.0	190.2	171.8	147.3	135.1	127.5
137.5°	181.5	183.8	193.1	202.4	193.1	183.8	181.5	165.9	145.2	134.9	128.3
140°	174.5	176.7	185.3	194.0	185.3	176.7	174.5	161.1	143.2	134.2	128.4
142.5°	169.6	171.5	179.0	186.4	179.0	171.5	169.6	157.9	142.1	134.2	128.9
145°	162.3	163.7	169.4	175.0	169.4	163.7	162.3	152.6	139.8	133.3	128.9
147.5°	156.1	157.3	161.9	166.6	161.9	157.3	156.1	148.5	138.4	133.3	129.8
150°	152.6	153.5	157.3	161.1	157.3	153.5	152.6	146.2	137.6	133.3	130.3
152.5°	149.8	150.5	153.3	156.2	153.3	150.5	149.8	144.3	137.0	133.3	130.5
155°	146.5	146.9	148.8	150.7	148.8	146.9	146.5	142.1	136.2	133.3	131.2
157.5°	143.5	143.8	145.2	146.5	145.2	143.8	143.5	140.1	135.6	133.3	131.9
160°	142.0	142.2	143.0	143.7	143.0	142.2	142.0	139.1	135.2	133.3	132.2
162.5°	140.7	140.8	141.6	142.3	141.6	140.8	140.7	138.2	135.0	133.3	132.5
165°	138.6	138.8	139.6	140.3	139.6	138.8	138.6	136.9	134.5	133.3	133.0
167.5°	137.7	137.8	138.0	138.4	138.0	137.8	137.7	136.5	135.0	134.2	133.9
170°	137.7	137.7	137.7	137.7	137.7	137.7	137.7	136.5	135.0	134.2	134.2
172.5°	137.0	136.9	136.6	136.3	136.6	136.9	137.0	136.0	134.9	134.2	134.2
175°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	135.4	134.6	134.2	134.4
177.5°	135.8	135.7	135.4	135.1	135.4	135.7	135.8	135.3	134.7	134.4	134.6
180°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1248.6	1254.6	1258.1	1262.9	1274.8
5°	1200.7	1223.4	1230.7	1248.6	1270.1
7.5°	1095.5	1164.9	1184.0	1227.0	1260.5
10°	993.8	1063.2	1096.7	1198.3	1248.6
12.5°	942.4	983.1	1005.8	1148.1	1231.8
15°	910.1	938.8	955.6	1081.1	1212.6
17.5°	885.0	905.3	917.3	1015.3	1186.4
20°	869.4	879.0	889.8	967.5	1156.4
22.5°	858.6	852.7	861.1	934.0	1115.8
25°	851.5	828.8	838.4	907.7	1068.0
27.5°	857.5	807.2	810.8	883.8	1017.8
30°	858.6	781.0	782.1	858.6	961.6
32.5°	850.3	753.5	754.6	827.6	898.1
35°	829.9	721.1	720.0	791.7	812.0
37.5°	802.4	686.5	686.5	752.3	717.5
40°	769.0	651.8	655.3	700.8	633.9
42.5°	728.3	614.7	619.5	632.6	571.7
45°	684.0	578.9	582.4	534.6	523.8
47.5°	635.1	541.7	542.9	443.7	508.2
50°	576.4	503.5	498.7	380.3	507.1
52.5°	525.0	461.6	447.2	344.4	460.5
55°	474.8	417.4	386.3	316.9	427.0
57.5°	430.5	360.0	330.1	284.7	419.8
60°	389.9	303.8	281.1	249.9	385.1
62.5°	356.4	262.0	257.2	226.0	349.2
65°	320.5	233.2	232.0	205.7	296.6
67.5°	285.8	214.1	212.9	186.6	226.0
70°	248.7	193.7	191.4	166.3	167.5
72.5°	210.4	171.0	168.6	149.5	138.8
75°	172.3	144.7	143.5	130.3	112.4
77.5°	135.1	114.8	117.2	105.3	82.6
80°	96.9	83.7	86.1	75.3	62.2
82.5°	64.5	55.0	57.4	47.8	41.8
85°	35.8	31.1	32.3	25.1	19.1
87.5°	16.7	14.4	14.4	9.6	6.0
90°	4.0	2.5	2.4	1.6	0.9
92.5°	24.6	17.5	15.9	9.8	3.6
95°	60.6	34.1	31.3	20.0	8.7
97.5°	81.6	37.5	34.9	25.0	15.0
100°	89.2	40.3	38.0	29.0	19.9
102.5°	92.7	43.1	41.0	32.5	24.1
105°	95.3	47.2	45.4	38.4	31.2
107.5°	95.8	53.4	51.8	45.1	38.5
110°	95.0	56.8	55.3	49.3	43.4



TEST NUMBER: P934059

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	95.0	61.0	59.6	53.9	48.2
115°	95.9	67.3	65.9	60.6	55.4
117.5°	97.8	73.3	72.1	67.3	62.5
120°	99.1	76.8	75.8	71.2	66.7
122.5°	101.2	81.0	79.8	75.3	70.8
125°	104.1	86.4	85.4	81.2	77.0
127.5°	106.9	91.6	90.5	86.4	82.1
130°	109.0	95.0	93.9	89.3	84.8
132.5°	110.6	97.8	96.8	92.2	87.7
135°	112.4	101.1	100.1	95.9	91.9
137.5°	115.1	105.3	104.3	100.2	96.1
140°	116.8	108.1	107.2	103.4	99.7
142.5°	118.2	110.2	109.3	105.8	102.4
145°	120.0	113.3	112.6	109.5	106.5
147.5°	122.6	117.3	116.6	113.6	110.7
150°	124.0	119.4	118.8	116.0	113.4
152.5°	124.9	120.7	120.2	118.2	116.2
155°	126.9	123.7	123.4	121.8	120.4
157.5°	128.9	126.7	126.4	124.9	123.5
160°	129.8	128.1	127.8	126.6	125.5
162.5°	130.8	129.5	129.3	128.4	127.6
165°	132.2	131.6	131.4	130.6	129.9
167.5°	133.2	132.8	132.7	132.3	132.0
170°	134.1	134.1	134.1	133.7	133.3
172.5°	134.2	134.2	134.2	134.1	134.1
175°	134.8	135.1	135.1	135.1	135.1
177.5°	134.9	135.1	135.1	135.1	135.1
180°	135.1	135.1	135.1	135.1	135.1



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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	15.68	16.88	16.34	17.56	18.35	18.48	19.68	19.14	20.36	21.14
	3H	16.18	17.26	16.86	17.95	18.77	19.84	20.92	20.52	21.61	22.43
	4H	16.39	17.41	17.09	18.11	18.94	20.29	21.31	20.99	22.01	22.84
	6H	16.53	17.47	17.24	18.18	19.02	20.59	21.53	21.30	22.24	23.08
	8H	16.54	17.43	17.26	18.16	19.01	20.67	21.56	21.39	22.29	23.14
	12H	16.52	17.37	17.25	18.10	18.98	20.71	21.57	21.44	22.29	23.17
4H	2H	16.75	17.76	17.45	18.46	19.30	18.93	19.95	19.63	20.65	21.48
	3H	17.80	18.65	18.52	19.39	20.24	20.46	21.30	21.17	22.04	22.89
	4H	18.09	18.86	18.82	19.60	20.49	20.99	21.76	21.72	22.50	23.38
	6H	18.24	18.91	18.99	19.67	20.56	21.37	22.04	22.12	22.80	23.69
	8H	18.25	18.88	19.00	19.64	20.54	21.48	22.10	22.23	22.86	23.77
	12H	18.24	18.80	19.01	19.58	20.49	21.55	22.11	22.32	22.89	23.80
8H	4H	18.57	19.19	19.32	19.95	20.86	21.15	21.77	21.90	22.53	23.43
	6H	18.85	19.36	19.63	20.16	21.07	21.59	22.10	22.37	22.91	23.81
	8H	18.89	19.35	19.68	20.15	21.08	21.74	22.20	22.53	23.00	23.92
	12H	18.89	19.30	19.69	20.09	21.07	21.85	22.25	22.64	23.04	24.02
12H	4H	18.59	19.15	19.36	19.94	20.84	21.13	21.69	21.90	22.47	23.38
	6H	18.91	19.37	19.70	20.17	21.09	21.59	22.05	22.38	22.85	23.77
	8H	18.99	19.40	19.78	20.19	21.17	21.76	22.17	22.55	22.96	23.94