

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: P934033

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934033
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-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

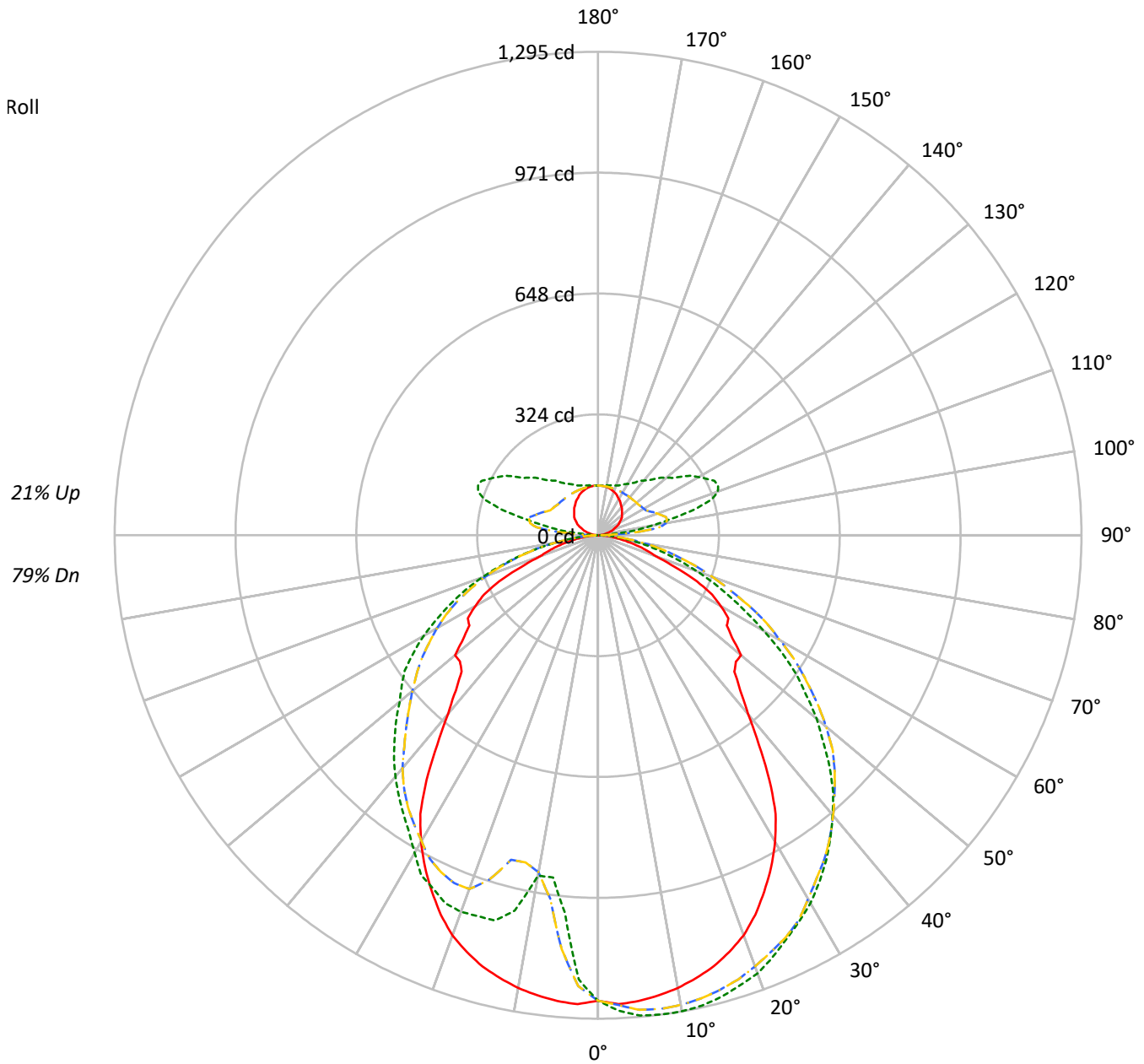
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4096.2 lumens
Efficiency: N/A
Efficacy: 105.6 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 (A_{in}): 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°	11567	11567	11567	11567
5°	11641	11677	11641	9181
10°	11551	11502	11551	8223
15°	11411	11253	11411	9396
20°	11160	10958	11160	9416
25°	10659	10527	10659	9216
30°	10015	10170	10015	8778
35°	8915	9718	8915	8297
40°	7416	9185	7416	7933
45°	6614	8562	6614	7516
50°	7009	7820	7009	7095
55°	6576	7019	6576	6853
60°	6754	5961	6754	6275
65°	6095	4927	6095	5508
70°	4191	3927	4191	4617
75°	3637	2902	3637	3476
80°	2869	1918	2869	2090
85°	1557	1015	1557	864

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10155 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	2.7
10°-20°	319.5	7.8
20°-30°	493.9	12.1
30°-40°	589.6	14.4
40°-50°	593.0	14.5
50°-60°	516.0	12.6
60°-70°	365.9	8.9
70°-80°	193.6	4.7
80°-90°	48.7	1.2
90°-100°	64.9	1.6
100°-110°	170.7	4.2
110°-120°	177.0	4.3
120°-130°	142.0	3.5
130°-140°	111.4	2.7
140°-150°	85.5	2.1
150°-160°	61.6	1.5
160°-170°	37.7	0.9
170°-180°	12.7	0.3
0°-30°	925.9	22.6
0°-40°	1515.5	37.0
0°-60°	2624.5	64.1
0°-90°	3232.7	78.9
90°-120°	412.7	10.1
90°-150°	751.6	18.3
90°-180°	864.0	21.1
0°-180°	4096.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1246	1246	1246	1246	1246	
5°	1252	1291	1252	1015	1252	119
15°	1196	1280	1196	1068	1196	336
25°	1053	1194	1053	1045	1053	484
35°	801	1065	801	909	801	495
45°	517	877	517	770	517	414
55°	421	648	421	632	421	387
65°	292	390	292	436	292	280
75°	111	185	111	222	111	117
85°	19	47	19	40	19	25
90°	1	3	1	3	1	2
95°	9	39	9	39	9	10
105°	31	267	31	267	31	33
115°	55	344	55	344	55	54
125°	76	274	76	274	76	67
135°	91	213	91	213	91	70
145°	105	172	105	172	105	66
155°	119	149	119	149	119	55
165°	128	138	128	138	128	36
175°	133	134	133	134	133	13
180°	133	133	133	133	133	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1257.2	1257.2	1264.3	1266.6	1266.6	1263.1	1259.6	1263.1	1273.7	1277.2	1276.1
5°	1252.5	1261.9	1274.9	1277.2	1279.6	1278.4	1276.1	1278.4	1290.2	1292.6	1293.8
7.5°	1243.1	1260.7	1277.2	1280.8	1284.3	1280.8	1279.6	1282.0	1293.8	1296.1	1296.1
10°	1231.3	1256.0	1274.9	1277.2	1280.8	1277.2	1277.2	1282.0	1293.8	1296.1	1297.3
12.5°	1214.8	1249.0	1266.6	1269.0	1273.7	1272.5	1271.4	1276.1	1287.9	1290.2	1290.2
15°	1195.8	1236.0	1252.5	1254.8	1263.1	1260.7	1260.7	1265.5	1278.4	1282.0	1280.8
17.5°	1170.0	1219.5	1238.3	1241.9	1247.8	1246.5	1247.8	1252.5	1264.3	1266.6	1267.8
20°	1140.4	1197.1	1219.5	1223.0	1228.9	1228.9	1228.9	1234.8	1246.5	1251.3	1251.3
22.5°	1100.3	1173.4	1197.1	1199.4	1206.5	1206.5	1208.9	1217.1	1227.7	1228.9	1228.9
25°	1053.2	1147.6	1167.5	1174.7	1181.7	1185.2	1188.8	1193.5	1197.1	1195.8	1197.1
27.5°	1003.7	1114.5	1140.4	1145.1	1154.6	1158.2	1162.8	1164.1	1165.2	1168.7	1166.4
30°	948.2	1068.5	1107.4	1112.1	1127.5	1129.8	1125.1	1127.5	1133.4	1135.8	1138.1
32.5°	885.7	1000.1	1073.2	1083.8	1098.0	1090.9	1089.7	1093.3	1102.7	1102.7	1105.1
35°	800.8	947.1	1041.4	1050.8	1061.4	1053.2	1057.8	1059.1	1065.0	1068.5	1067.3
37.5°	707.6	901.0	1008.4	1015.4	1023.7	1013.0	1020.2	1023.7	1028.4	1026.1	1026.1
40°	625.1	829.1	969.5	974.1	981.3	973.0	980.0	982.4	984.7	982.4	981.3
42.5°	563.8	750.1	928.1	934.0	929.3	935.2	937.6	942.3	938.8	934.0	934.0
45°	516.6	728.8	883.3	890.4	883.3	892.8	896.3	896.3	885.7	883.3	882.2
47.5°	501.2	686.4	838.5	838.5	835.0	846.7	852.7	844.4	833.8	830.3	830.3
50°	500.0	639.2	777.2	772.5	789.0	803.2	797.3	789.0	780.8	767.7	767.7
52.5°	454.1	581.5	698.2	715.9	741.9	750.1	740.6	732.4	718.2	712.3	707.6
55°	421.0	521.3	626.3	661.6	688.7	699.4	681.7	673.4	652.1	648.7	646.3
57.5°	414.0	434.0	560.2	605.0	638.0	636.9	626.3	610.9	593.2	589.7	588.5
60°	379.7	313.7	489.4	542.5	576.7	573.2	563.8	549.6	533.1	530.8	528.3
62.5°	344.4	227.6	409.3	469.4	517.7	516.6	508.3	487.1	475.3	469.4	464.7
65°	292.5	191.0	291.3	390.3	460.0	462.3	444.6	429.3	416.3	409.3	408.0
67.5°	222.9	155.7	196.9	325.5	404.5	402.1	379.7	372.7	356.2	352.6	345.5
70°	165.1	103.8	136.8	264.2	350.3	344.4	326.7	318.4	303.1	294.8	290.1
72.5°	136.8	83.7	100.2	205.2	294.8	287.8	272.4	263.0	250.0	243.0	238.2
75°	110.9	88.5	76.7	152.1	239.4	234.7	220.6	211.1	200.5	191.0	192.3
77.5°	81.4	82.6	61.3	112.0	189.9	182.8	174.5	162.7	158.0	148.6	148.6
80°	61.3	64.9	46.0	76.7	136.8	136.8	129.7	121.5	113.2	108.5	108.5
82.5°	41.2	41.2	34.2	48.4	93.2	89.6	84.9	82.6	77.8	75.5	75.5
85°	18.8	23.6	21.2	29.5	50.7	53.1	53.1	50.7	49.5	47.1	48.4
87.5°	5.9	10.6	12.9	16.5	26.0	27.1	28.3	28.3	28.3	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	9.6	15.7	17.2	24.3	33.7	38.3	33.6	24.1	17.0	16.2
95°	8.6	19.7	30.9	33.7	59.7	94.4	111.8	99.8	75.7	57.7	55.6
97.5°	14.8	24.6	34.5	37.0	80.4	138.4	167.4	159.8	144.5	133.1	129.2
100°	19.6	28.6	37.5	39.7	87.9	152.3	184.4	185.0	186.1	186.9	182.3
102.5°	23.7	32.0	40.4	42.5	91.4	156.7	189.2	199.0	218.3	232.9	228.9
105°	30.8	37.8	44.8	46.6	94.0	157.1	188.7	210.5	254.0	286.5	284.4
107.5°	37.9	44.5	51.1	52.7	94.4	150.1	178.0	208.3	268.9	314.5	315.0
110°	42.8	48.6	54.5	56.1	93.7	144.0	169.1	203.0	270.7	321.6	323.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.5	53.1	58.7	60.2	93.7	138.5	160.9	195.7	265.0	317.1	320.5
115°	54.6	59.8	65.0	66.3	94.6	132.4	151.2	184.6	251.5	301.5	306.3
117.5°	61.7	66.4	71.1	72.3	96.4	128.4	144.5	174.7	234.9	280.2	285.5
120°	65.8	70.2	74.7	75.8	97.7	127.1	141.7	169.3	224.5	265.8	270.9
122.5°	69.8	74.3	78.7	79.9	99.8	126.4	139.7	164.5	214.1	251.4	256.4
125°	76.0	80.1	84.2	85.2	102.7	125.9	137.5	158.5	200.8	232.3	237.0
127.5°	81.0	85.2	89.3	90.3	105.4	125.5	135.6	153.7	189.9	217.1	221.0
130°	83.6	88.1	92.6	93.7	107.5	125.8	134.9	151.0	183.3	207.4	211.0
132.5°	86.5	91.0	95.4	96.5	109.1	125.9	134.3	148.7	177.5	199.2	202.4
135°	90.6	94.6	98.7	99.7	110.9	125.8	133.2	145.2	169.4	187.5	190.3
137.5°	94.8	98.8	102.8	103.8	113.5	126.5	133.0	143.2	163.6	179.0	181.3
140°	98.3	101.9	105.7	106.6	115.1	126.7	132.4	141.2	158.9	172.1	174.2
142.5°	101.0	104.3	107.7	108.6	116.6	127.1	132.4	140.1	155.7	167.3	169.2
145°	105.1	108.0	111.0	111.8	118.4	127.1	131.5	137.8	150.5	160.0	161.5
147.5°	109.2	112.0	115.0	115.7	121.0	128.0	131.5	136.5	146.5	154.0	155.1
150°	111.8	114.4	117.1	117.7	122.3	128.4	131.5	135.7	144.2	150.5	151.4
152.5°	114.6	116.6	118.5	119.1	123.2	128.7	131.5	135.1	142.3	147.7	148.4
155°	118.7	120.1	121.7	122.0	125.1	129.3	131.5	134.3	140.1	144.4	144.9
157.5°	121.8	123.2	124.6	125.0	127.1	130.1	131.5	133.7	138.2	141.5	141.8
160°	123.8	124.9	126.0	126.3	128.0	130.3	131.5	133.4	137.2	140.1	140.2
162.5°	125.9	126.7	127.6	127.7	129.0	130.7	131.5	133.1	136.3	138.7	138.9
165°	128.1	128.8	129.6	129.8	130.3	131.1	131.5	132.6	135.0	136.7	136.8
167.5°	130.1	130.5	130.9	130.9	131.4	132.0	132.4	133.1	134.6	135.8	135.9
170°	131.5	131.8	132.2	132.3	132.3	132.4	132.4	133.1	134.6	135.8	135.8
172.5°	132.2	132.3	132.4	132.4	132.4	132.4	132.4	133.0	134.2	135.1	135.0
175°	133.2	133.2	133.2	133.2	132.9	132.6	132.4	132.7	133.5	134.1	134.1
177.5°	133.2	133.2	133.2	133.2	133.0	132.7	132.6	132.8	133.4	133.9	133.8
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1278.4	1274.9	1278.4	1276.1	1277.2	1273.7	1263.1	1259.6	1263.1	1266.6	1266.6
5°	1293.8	1291.4	1293.8	1293.8	1292.6	1290.2	1278.4	1276.1	1278.4	1279.6	1277.2
7.5°	1298.5	1294.9	1298.5	1296.1	1296.1	1293.8	1282.0	1279.6	1280.8	1284.3	1280.8
10°	1298.5	1294.9	1298.5	1297.3	1296.1	1293.8	1282.0	1277.2	1277.2	1280.8	1277.2
12.5°	1292.6	1290.2	1292.6	1290.2	1290.2	1287.9	1276.1	1271.4	1272.5	1273.7	1269.0
15°	1283.1	1279.6	1283.1	1280.8	1282.0	1278.4	1265.5	1260.7	1260.7	1263.1	1254.8
17.5°	1269.0	1264.3	1269.0	1267.8	1266.6	1264.3	1252.5	1247.8	1246.5	1247.8	1241.9
20°	1252.5	1249.0	1252.5	1251.3	1251.3	1246.5	1234.8	1228.9	1228.9	1228.9	1223.0
22.5°	1226.5	1223.0	1226.5	1228.9	1228.9	1227.7	1217.1	1208.9	1206.5	1206.5	1199.4
25°	1197.1	1193.5	1197.1	1197.1	1195.8	1197.1	1193.5	1188.8	1185.2	1181.7	1174.7
27.5°	1168.7	1166.4	1168.7	1166.4	1168.7	1165.2	1164.1	1162.8	1158.2	1154.6	1145.1
30°	1140.4	1138.1	1140.4	1138.1	1135.8	1133.4	1127.5	1125.1	1129.8	1127.5	1112.1
32.5°	1105.1	1102.7	1105.1	1105.1	1102.7	1102.7	1093.3	1089.7	1090.9	1098.0	1083.8
35°	1068.5	1065.0	1068.5	1067.3	1068.5	1065.0	1059.1	1057.8	1053.2	1061.4	1050.8
37.5°	1026.1	1022.5	1026.1	1026.1	1026.1	1028.4	1023.7	1020.2	1013.0	1023.7	1015.4
40°	982.4	977.7	982.4	981.3	982.4	984.7	982.4	980.0	973.0	981.3	974.1
42.5°	932.9	931.7	932.9	934.0	934.0	938.8	942.3	937.6	935.2	929.3	934.0
45°	879.8	877.4	879.8	882.2	883.3	885.7	896.3	896.3	892.8	883.3	890.4
47.5°	823.2	817.3	823.2	830.3	830.3	833.8	844.4	852.7	846.7	835.0	838.5
50°	763.0	764.3	763.0	767.7	767.7	780.8	789.0	797.3	803.2	789.0	772.5
52.5°	704.1	702.9	704.1	707.6	712.3	718.2	732.4	740.6	750.1	741.9	715.9
55°	645.1	647.5	645.1	646.3	648.7	652.1	673.4	681.7	699.4	688.7	661.6
57.5°	586.2	582.6	586.2	588.5	589.7	593.2	610.9	626.3	636.9	638.0	605.0
60°	517.7	513.0	517.7	528.3	530.8	533.1	549.6	563.8	573.2	576.7	542.5
62.5°	457.6	449.3	457.6	464.7	469.4	475.3	487.1	508.3	516.6	517.7	469.4
65°	393.9	390.3	393.9	408.0	409.3	416.3	429.3	444.6	462.3	460.0	390.3
67.5°	336.2	336.2	336.2	345.5	352.6	356.2	372.7	379.7	402.1	404.5	325.5
70°	283.0	281.9	283.0	290.1	294.8	303.1	318.4	326.7	344.4	350.3	264.2
72.5°	232.3	231.2	232.3	238.2	243.0	250.0	263.0	272.4	287.8	294.8	205.2
75°	187.5	185.1	187.5	192.3	191.0	200.5	211.1	220.6	234.7	239.4	152.1
77.5°	143.9	143.9	143.9	148.6	148.6	158.0	162.7	174.5	182.8	189.9	112.0
80°	107.3	106.1	107.3	108.5	108.5	113.2	121.5	129.7	136.8	136.8	76.7
82.5°	75.5	73.1	75.5	75.5	75.5	77.8	82.6	84.9	89.6	93.2	48.4
85°	47.1	47.1	47.1	48.4	47.1	49.5	50.7	53.1	53.1	50.7	29.5
87.5°	30.7	29.5	30.7	29.5	29.5	28.3	28.3	28.3	27.1	26.0	16.5
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	16.2	17.0	24.1	33.6	38.3	33.7	24.3	17.2
95°	47.5	39.3	47.5	55.6	57.7	75.7	99.8	111.8	94.4	59.7	33.7
97.5°	113.6	98.1	113.6	129.2	133.1	144.5	159.8	167.4	138.4	80.4	37.0
100°	163.8	145.2	163.8	182.3	186.9	186.1	185.0	184.4	152.3	87.9	39.7
102.5°	213.0	197.1	213.0	228.9	232.9	218.3	199.0	189.2	156.7	91.4	42.5
105°	275.9	267.3	275.9	284.4	286.5	254.0	210.5	188.7	157.1	94.0	46.6
107.5°	317.1	319.1	317.1	315.0	314.5	268.9	208.3	178.0	150.1	94.4	52.7
110°	332.7	341.6	332.7	323.8	321.6	270.7	203.0	169.1	144.0	93.7	56.1



TEST NUMBER: P934033

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	334.1	347.8	334.1	320.5	317.1	265.0	195.7	160.9	138.5	93.7	60.2
115°	325.3	344.2	325.3	306.3	301.5	251.5	184.6	151.2	132.4	94.6	66.3
117.5°	306.4	327.5	306.4	285.5	280.2	234.9	174.7	144.5	128.4	96.4	72.3
120°	291.4	311.7	291.4	270.9	265.8	224.5	169.3	141.7	127.1	97.7	75.8
122.5°	276.5	296.7	276.5	256.4	251.4	214.1	164.5	139.7	126.4	99.8	79.9
125°	255.6	274.1	255.6	237.0	232.3	200.8	158.5	137.5	125.9	102.7	85.2
127.5°	236.6	252.3	236.6	221.0	217.1	189.9	153.7	135.6	125.5	105.4	90.3
130°	225.5	239.9	225.5	211.0	207.4	183.3	151.0	134.9	125.8	107.5	93.7
132.5°	215.4	228.3	215.4	202.4	199.2	177.5	148.7	134.3	125.9	109.1	96.5
135°	201.6	212.7	201.6	190.3	187.5	169.4	145.2	133.2	125.8	110.9	99.7
137.5°	190.4	199.6	190.4	181.3	179.0	163.6	143.2	133.0	126.5	113.5	103.8
140°	182.7	191.3	182.7	174.2	172.1	158.9	141.2	132.4	126.7	115.1	106.6
142.5°	176.5	183.8	176.5	169.2	167.3	155.7	140.1	132.4	127.1	116.6	108.6
145°	167.0	172.5	167.0	161.5	160.0	150.5	137.8	131.5	127.1	118.4	111.8
147.5°	159.7	164.3	159.7	155.1	154.0	146.5	136.5	131.5	128.0	121.0	115.7
150°	155.1	158.9	155.1	151.4	150.5	144.2	135.7	131.5	128.4	122.3	117.7
152.5°	151.2	154.1	151.2	148.4	147.7	142.3	135.1	131.5	128.7	123.2	119.1
155°	146.7	148.6	146.7	144.9	144.4	140.1	134.3	131.5	129.3	125.1	122.0
157.5°	143.2	144.5	143.2	141.8	141.5	138.2	133.7	131.5	130.1	127.1	125.0
160°	141.0	141.7	141.0	140.2	140.1	137.2	133.4	131.5	130.3	128.0	126.3
162.5°	139.6	140.3	139.6	138.9	138.7	136.3	133.1	131.5	130.7	129.0	127.7
165°	137.6	138.4	137.6	136.8	136.7	135.0	132.6	131.5	131.1	130.3	129.8
167.5°	136.1	136.5	136.1	135.9	135.8	134.6	133.1	132.4	132.0	131.4	130.9
170°	135.8	135.8	135.8	135.8	135.8	134.6	133.1	132.4	132.4	132.3	132.3
172.5°	134.7	134.4	134.7	135.0	135.1	134.2	133.0	132.4	132.4	132.4	132.4
175°	134.1	134.1	134.1	134.1	134.1	133.5	132.7	132.4	132.6	132.9	133.2
177.5°	133.5	133.2	133.5	133.8	133.9	133.4	132.8	132.6	132.7	133.0	133.2
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P934033

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1264.3	1257.2	1257.2	1245.4	1240.7	1237.2	1231.3	1213.6	1208.9	1204.1	1211.2
5°	1274.9	1261.9	1252.5	1231.3	1213.6	1206.5	1184.1	1141.7	1113.3	1092.1	1080.3
7.5°	1277.2	1260.7	1243.1	1210.0	1167.5	1148.7	1080.3	1002.5	981.3	962.3	950.6
10°	1274.9	1256.0	1231.3	1181.7	1081.5	1048.5	980.0	929.3	916.4	912.8	916.4
12.5°	1266.6	1249.0	1214.8	1132.2	991.9	969.5	929.3	899.9	897.5	903.4	935.2
15°	1252.5	1236.0	1195.8	1066.1	942.3	925.8	897.5	886.9	899.9	941.1	1036.7
17.5°	1238.3	1219.5	1170.0	1001.3	904.6	892.8	872.7	894.0	967.1	1022.5	1054.4
20°	1219.5	1197.1	1140.4	954.1	877.4	866.8	857.4	953.0	1008.4	1028.4	1046.1
22.5°	1197.1	1173.4	1100.3	921.1	849.1	840.8	846.7	986.0	1008.4	1022.5	1037.8
25°	1167.5	1147.6	1053.2	895.1	826.7	817.3	839.7	982.4	995.4	998.9	1029.5
27.5°	1140.4	1114.5	1003.7	871.6	799.6	796.0	845.6	967.1	976.5	980.0	1013.0
30°	1107.4	1068.5	948.2	846.7	771.3	770.2	846.7	948.2	945.8	955.3	988.3
32.5°	1073.2	1000.1	885.7	816.1	744.2	743.0	838.5	919.9	917.5	930.6	955.3
35°	1041.4	947.1	800.8	780.8	710.0	711.2	818.4	886.9	888.1	899.9	915.2
37.5°	1008.4	901.0	707.6	741.9	677.0	677.0	791.3	856.2	853.9	857.4	878.6
40°	969.5	829.1	625.1	691.1	646.3	642.8	758.4	823.2	815.0	813.8	843.3
42.5°	928.1	750.1	563.8	623.9	610.9	606.2	718.2	783.1	767.7	771.3	809.1
45°	883.3	728.8	516.6	527.2	574.3	570.8	674.6	737.1	726.5	736.0	774.9
47.5°	838.5	686.4	501.2	437.6	535.4	534.2	626.3	692.3	686.4	695.8	737.1
50°	777.2	639.2	500.0	375.1	491.8	496.5	568.4	648.7	648.7	656.9	700.5
52.5°	698.2	581.5	454.1	339.6	441.0	455.2	517.7	610.9	613.2	621.5	660.4
55°	626.3	521.3	421.0	312.5	381.0	411.6	468.2	572.0	576.7	584.9	620.4
57.5°	560.2	434.0	414.0	280.7	325.5	355.0	424.5	534.2	536.6	543.7	577.9
60°	489.4	313.7	379.7	246.5	277.2	299.6	384.5	489.4	497.7	502.4	531.9
62.5°	409.3	227.6	344.4	222.9	253.6	258.3	351.4	446.9	457.6	461.1	478.8
65°	291.3	191.0	292.5	202.9	228.8	229.9	316.1	403.4	412.7	418.6	431.7
67.5°	196.9	155.7	222.9	184.0	209.9	211.1	281.9	352.6	365.6	370.3	378.6
70°	136.8	103.8	165.1	164.0	188.7	191.0	245.3	306.6	318.4	322.0	326.7
72.5°	100.2	83.7	136.8	147.5	166.3	168.6	207.5	254.8	266.5	270.1	272.4
75°	76.7	88.5	110.9	128.5	141.5	142.7	169.9	207.5	215.8	218.2	219.3
77.5°	61.3	82.6	81.4	103.8	115.6	113.2	133.3	160.4	167.5	167.5	167.5
80°	46.0	64.9	61.3	74.3	84.9	82.6	95.5	114.4	116.8	119.1	117.9
82.5°	34.2	41.2	41.2	47.1	56.6	54.3	63.6	74.3	74.3	74.3	76.7
85°	21.2	23.6	18.8	24.7	31.9	30.7	35.3	40.1	41.2	41.2	38.9
87.5°	12.9	10.6	5.9	9.5	14.2	14.2	16.5	17.7	16.5	16.5	16.5
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°	15.7	9.6	3.6	9.6	15.7	17.2	24.3	33.7	38.3	33.6	24.1
95°	30.9	19.7	8.6	19.7	30.9	33.7	59.7	94.4	111.8	99.8	75.7
97.5°	34.5	24.6	14.8	24.6	34.5	37.0	80.4	138.4	167.4	159.8	144.5
100°	37.5	28.6	19.6	28.6	37.5	39.7	87.9	152.3	184.4	185.0	186.1
102.5°	40.4	32.0	23.7	32.0	40.4	42.5	91.4	156.7	189.2	199.0	218.3
105°	44.8	37.8	30.8	37.8	44.8	46.6	94.0	157.1	188.7	210.5	254.0
107.5°	51.1	44.5	37.9	44.5	51.1	52.7	94.4	150.1	178.0	208.3	268.9
110°	54.5	48.6	42.8	48.6	54.5	56.1	93.7	144.0	169.1	203.0	270.7



TEST NUMBER: P934033

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	58.7	53.1	47.5	53.1	58.7	60.2	93.7	138.5	160.9	195.7	265.0
115°	65.0	59.8	54.6	59.8	65.0	66.3	94.6	132.4	151.2	184.6	251.5
117.5°	71.1	66.4	61.7	66.4	71.1	72.3	96.4	128.4	144.5	174.7	234.9
120°	74.7	70.2	65.8	70.2	74.7	75.8	97.7	127.1	141.7	169.3	224.5
122.5°	78.7	74.3	69.8	74.3	78.7	79.9	99.8	126.4	139.7	164.5	214.1
125°	84.2	80.1	76.0	80.1	84.2	85.2	102.7	125.9	137.5	158.5	200.8
127.5°	89.3	85.2	81.0	85.2	89.3	90.3	105.4	125.5	135.6	153.7	189.9
130°	92.6	88.1	83.6	88.1	92.6	93.7	107.5	125.8	134.9	151.0	183.3
132.5°	95.4	91.0	86.5	91.0	95.4	96.5	109.1	125.9	134.3	148.7	177.5
135°	98.7	94.6	90.6	94.6	98.7	99.7	110.9	125.8	133.2	145.2	169.4
137.5°	102.8	98.8	94.8	98.8	102.8	103.8	113.5	126.5	133.0	143.2	163.6
140°	105.7	101.9	98.3	101.9	105.7	106.6	115.1	126.7	132.4	141.2	158.9
142.5°	107.7	104.3	101.0	104.3	107.7	108.6	116.6	127.1	132.4	140.1	155.7
145°	111.0	108.0	105.1	108.0	111.0	111.8	118.4	127.1	131.5	137.8	150.5
147.5°	115.0	112.0	109.2	112.0	115.0	115.7	121.0	128.0	131.5	136.5	146.5
150°	117.1	114.4	111.8	114.4	117.1	117.7	122.3	128.4	131.5	135.7	144.2
152.5°	118.5	116.6	114.6	116.6	118.5	119.1	123.2	128.7	131.5	135.1	142.3
155°	121.7	120.1	118.7	120.1	121.7	122.0	125.1	129.3	131.5	134.3	140.1
157.5°	124.6	123.2	121.8	123.2	124.6	125.0	127.1	130.1	131.5	133.7	138.2
160°	126.0	124.9	123.8	124.9	126.0	126.3	128.0	130.3	131.5	133.4	137.2
162.5°	127.6	126.7	125.9	126.7	127.6	127.7	129.0	130.7	131.5	133.1	136.3
165°	129.6	128.8	128.1	128.8	129.6	129.8	130.3	131.1	131.5	132.6	135.0
167.5°	130.9	130.5	130.1	130.5	130.9	130.9	131.4	132.0	132.4	133.1	134.6
170°	132.2	131.8	131.5	131.8	132.2	132.3	132.3	132.4	132.4	133.1	134.6
172.5°	132.4	132.3	132.2	132.3	132.4	132.4	132.4	132.4	132.4	133.0	134.2
175°	133.2	133.2	133.2	133.2	133.2	133.2	132.9	132.6	132.4	132.7	133.5
177.5°	133.2	133.2	133.2	133.2	133.2	133.2	133.0	132.7	132.6	132.8	133.4
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P934033

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1203.0	1199.4	1204.1	1191.1	1204.1	1199.4	1203.0	1211.2	1204.1	1208.9	1213.6
5°	1055.5	1049.6	1030.8	1015.4	1030.8	1049.6	1055.5	1080.3	1092.1	1113.3	1141.7
7.5°	943.5	938.8	934.0	924.6	934.0	938.8	943.5	950.6	962.3	981.3	1002.5
10°	918.7	919.9	927.0	925.8	927.0	919.9	918.7	916.4	912.8	916.4	929.3
12.5°	982.4	993.0	1032.0	1029.5	1032.0	993.0	982.4	935.2	903.4	897.5	899.9
15°	1055.5	1059.1	1067.3	1068.5	1067.3	1059.1	1055.5	1036.7	941.1	899.9	886.9
17.5°	1062.6	1063.8	1069.7	1069.7	1069.7	1063.8	1062.6	1054.4	1022.5	967.1	894.0
20°	1056.7	1059.1	1070.9	1073.2	1070.9	1059.1	1056.7	1046.1	1028.4	1008.4	953.0
22.5°	1054.4	1059.1	1068.5	1067.3	1068.5	1059.1	1054.4	1037.8	1022.5	1008.4	986.0
25°	1042.6	1042.6	1043.7	1044.9	1043.7	1042.6	1042.6	1029.5	998.9	995.4	982.4
27.5°	1017.8	1020.2	1027.2	1026.1	1027.2	1020.2	1017.8	1013.0	980.0	976.5	967.1
30°	995.4	993.0	987.1	982.4	987.1	993.0	995.4	988.3	955.3	945.8	948.2
32.5°	957.6	951.7	945.8	942.3	945.8	951.7	957.6	955.3	930.6	917.5	919.9
35°	912.8	914.0	912.8	909.3	912.8	914.0	912.8	915.2	899.9	888.1	886.9
37.5°	881.0	883.3	882.2	877.4	882.2	883.3	881.0	878.6	857.4	853.9	856.2
40°	848.0	849.1	848.0	844.4	848.0	849.1	848.0	843.3	813.8	815.0	823.2
42.5°	816.1	815.0	811.4	809.1	811.4	815.0	816.1	809.1	771.3	767.7	783.1
45°	779.5	780.8	773.6	770.2	773.6	780.8	779.5	774.9	736.0	726.5	737.1
47.5°	743.0	743.0	737.1	733.6	737.1	743.0	743.0	737.1	695.8	686.4	692.3
50°	704.1	702.9	694.6	693.5	694.6	702.9	704.1	700.5	656.9	648.7	648.7
52.5°	659.3	659.3	660.4	662.8	660.4	659.3	659.3	660.4	621.5	613.2	610.9
55°	620.4	621.5	629.7	632.2	629.7	621.5	620.4	620.4	584.9	576.7	572.0
57.5°	580.2	580.2	586.2	586.2	586.2	580.2	580.2	577.9	543.7	536.6	534.2
60°	534.2	536.6	541.3	540.1	541.3	536.6	534.2	531.9	502.4	497.7	489.4
62.5°	485.9	488.3	489.4	487.1	489.4	488.3	485.9	478.8	461.1	457.6	446.9
65°	435.2	437.6	438.7	436.4	438.7	437.6	435.2	431.7	418.6	412.7	403.4
67.5°	383.3	382.1	381.0	385.6	381.0	382.1	383.3	378.6	370.3	365.6	352.6
70°	330.2	330.2	329.0	331.4	329.0	330.2	330.2	326.7	322.0	318.4	306.6
72.5°	273.6	272.4	277.2	273.6	277.2	272.4	273.6	272.4	270.1	266.5	254.8
75°	218.2	220.6	218.2	221.7	218.2	220.6	218.2	219.3	218.2	215.8	207.5
77.5°	166.3	168.6	166.3	166.3	166.3	168.6	166.3	167.5	167.5	167.5	160.4
80°	117.9	116.8	116.8	115.6	116.8	116.8	117.9	117.9	119.1	116.8	114.4
82.5°	75.5	74.3	74.3	76.7	74.3	74.3	75.5	76.7	74.3	74.3	74.3
85°	41.2	42.5	40.1	40.1	40.1	42.5	41.2	38.9	41.2	41.2	40.1
87.5°	15.4	14.2	14.2	14.2	14.2	14.2	15.4	16.5	16.5	16.5	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	16.2	13.6	10.9	13.6	16.2	17.0	24.1	33.6	38.3	33.7
95°	57.7	55.6	47.5	39.3	47.5	55.6	57.7	75.7	99.8	111.8	94.4
97.5°	133.1	129.2	113.6	98.1	113.6	129.2	133.1	144.5	159.8	167.4	138.4
100°	186.9	182.3	163.8	145.2	163.8	182.3	186.9	186.1	185.0	184.4	152.3
102.5°	232.9	228.9	213.0	197.1	213.0	228.9	232.9	218.3	199.0	189.2	156.7
105°	286.5	284.4	275.9	267.3	275.9	284.4	286.5	254.0	210.5	188.7	157.1
107.5°	314.5	315.0	317.1	319.1	317.1	315.0	314.5	268.9	208.3	178.0	150.1
110°	321.6	323.8	332.7	341.6	332.7	323.8	321.6	270.7	203.0	169.1	144.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	317.1	320.5	334.1	347.8	334.1	320.5	317.1	265.0	195.7	160.9	138.5
115°	301.5	306.3	325.3	344.2	325.3	306.3	301.5	251.5	184.6	151.2	132.4
117.5°	280.2	285.5	306.4	327.5	306.4	285.5	280.2	234.9	174.7	144.5	128.4
120°	265.8	270.9	291.4	311.7	291.4	270.9	265.8	224.5	169.3	141.7	127.1
122.5°	251.4	256.4	276.5	296.7	276.5	256.4	251.4	214.1	164.5	139.7	126.4
125°	232.3	237.0	255.6	274.1	255.6	237.0	232.3	200.8	158.5	137.5	125.9
127.5°	217.1	221.0	236.6	252.3	236.6	221.0	217.1	189.9	153.7	135.6	125.5
130°	207.4	211.0	225.5	239.9	225.5	211.0	207.4	183.3	151.0	134.9	125.8
132.5°	199.2	202.4	215.4	228.3	215.4	202.4	199.2	177.5	148.7	134.3	125.9
135°	187.5	190.3	201.6	212.7	201.6	190.3	187.5	169.4	145.2	133.2	125.8
137.5°	179.0	181.3	190.4	199.6	190.4	181.3	179.0	163.6	143.2	133.0	126.5
140°	172.1	174.2	182.7	191.3	182.7	174.2	172.1	158.9	141.2	132.4	126.7
142.5°	167.3	169.2	176.5	183.8	176.5	169.2	167.3	155.7	140.1	132.4	127.1
145°	160.0	161.5	167.0	172.5	167.0	161.5	160.0	150.5	137.8	131.5	127.1
147.5°	154.0	155.1	159.7	164.3	159.7	155.1	154.0	146.5	136.5	131.5	128.0
150°	150.5	151.4	155.1	158.9	155.1	151.4	150.5	144.2	135.7	131.5	128.4
152.5°	147.7	148.4	151.2	154.1	151.2	148.4	147.7	142.3	135.1	131.5	128.7
155°	144.4	144.9	146.7	148.6	146.7	144.9	144.4	140.1	134.3	131.5	129.3
157.5°	141.5	141.8	143.2	144.5	143.2	141.8	141.5	138.2	133.7	131.5	130.1
160°	140.1	140.2	141.0	141.7	141.0	140.2	140.1	137.2	133.4	131.5	130.3
162.5°	138.7	138.9	139.6	140.3	139.6	138.9	138.7	136.3	133.1	131.5	130.7
165°	136.7	136.8	137.6	138.4	137.6	136.8	136.7	135.0	132.6	131.5	131.1
167.5°	135.8	135.9	136.1	136.5	136.1	135.9	135.8	134.6	133.1	132.4	132.0
170°	135.8	135.8	135.8	135.8	135.8	135.8	135.8	134.6	133.1	132.4	132.4
172.5°	135.1	135.0	134.7	134.4	134.7	135.0	135.1	134.2	133.0	132.4	132.4
175°	134.1	134.1	134.1	134.1	134.1	134.1	134.1	133.5	132.7	132.4	132.6
177.5°	133.9	133.8	133.5	133.2	133.5	133.8	133.9	133.4	132.8	132.6	132.7
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1231.3	1237.2	1240.7	1245.4	1257.2
5°	1184.1	1206.5	1213.6	1231.3	1252.5
7.5°	1080.3	1148.7	1167.5	1210.0	1243.1
10°	980.0	1048.5	1081.5	1181.7	1231.3
12.5°	929.3	969.5	991.9	1132.2	1214.8
15°	897.5	925.8	942.3	1066.1	1195.8
17.5°	872.7	892.8	904.6	1001.3	1170.0
20°	857.4	866.8	877.4	954.1	1140.4
22.5°	846.7	840.8	849.1	921.1	1100.3
25°	839.7	817.3	826.7	895.1	1053.2
27.5°	845.6	796.0	799.6	871.6	1003.7
30°	846.7	770.2	771.3	846.7	948.2
32.5°	838.5	743.0	744.2	816.1	885.7
35°	818.4	711.2	710.0	780.8	800.8
37.5°	791.3	677.0	677.0	741.9	707.6
40°	758.4	642.8	646.3	691.1	625.1
42.5°	718.2	606.2	610.9	623.9	563.8
45°	674.6	570.8	574.3	527.2	516.6
47.5°	626.3	534.2	535.4	437.6	501.2
50°	568.4	496.5	491.8	375.1	500.0
52.5°	517.7	455.2	441.0	339.6	454.1
55°	468.2	411.6	381.0	312.5	421.0
57.5°	424.5	355.0	325.5	280.7	414.0
60°	384.5	299.6	277.2	246.5	379.7
62.5°	351.4	258.3	253.6	222.9	344.4
65°	316.1	229.9	228.8	202.9	292.5
67.5°	281.9	211.1	209.9	184.0	222.9
70°	245.3	191.0	188.7	164.0	165.1
72.5°	207.5	168.6	166.3	147.5	136.8
75°	169.9	142.7	141.5	128.5	110.9
77.5°	133.3	113.2	115.6	103.8	81.4
80°	95.5	82.6	84.9	74.3	61.3
82.5°	63.6	54.3	56.6	47.1	41.2
85°	35.3	30.7	31.9	24.7	18.8
87.5°	16.5	14.2	14.2	9.5	5.9
90°	3.9	2.5	2.3	1.6	0.9
92.5°	24.3	17.2	15.7	9.6	3.6
95°	59.7	33.7	30.9	19.7	8.6
97.5°	80.4	37.0	34.5	24.6	14.8
100°	87.9	39.7	37.5	28.6	19.6
102.5°	91.4	42.5	40.4	32.0	23.7
105°	94.0	46.6	44.8	37.8	30.8
107.5°	94.4	52.7	51.1	44.5	37.9
110°	93.7	56.1	54.5	48.6	42.8



TEST NUMBER: P934033

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	93.7	60.2	58.7	53.1	47.5
115°	94.6	66.3	65.0	59.8	54.6
117.5°	96.4	72.3	71.1	66.4	61.7
120°	97.7	75.8	74.7	70.2	65.8
122.5°	99.8	79.9	78.7	74.3	69.8
125°	102.7	85.2	84.2	80.1	76.0
127.5°	105.4	90.3	89.3	85.2	81.0
130°	107.5	93.7	92.6	88.1	83.6
132.5°	109.1	96.5	95.4	91.0	86.5
135°	110.9	99.7	98.7	94.6	90.6
137.5°	113.5	103.8	102.8	98.8	94.8
140°	115.1	106.6	105.7	101.9	98.3
142.5°	116.6	108.6	107.7	104.3	101.0
145°	118.4	111.8	111.0	108.0	105.1
147.5°	121.0	115.7	115.0	112.0	109.2
150°	122.3	117.7	117.1	114.4	111.8
152.5°	123.2	119.1	118.5	116.6	114.6
155°	125.1	122.0	121.7	120.1	118.7
157.5°	127.1	125.0	124.6	123.2	121.8
160°	128.0	126.3	126.0	124.9	123.8
162.5°	129.0	127.7	127.6	126.7	125.9
165°	130.3	129.8	129.6	128.8	128.1
167.5°	131.4	130.9	130.9	130.5	130.1
170°	132.3	132.3	132.2	131.8	131.5
172.5°	132.4	132.4	132.4	132.3	132.2
175°	132.9	133.2	133.2	133.2	133.2
177.5°	133.0	133.2	133.2	133.2	133.2
180°	133.2	133.2	133.2	133.2	133.2



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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	15.63	16.83	16.30	17.51	18.30	18.43	19.63	19.09	20.31	21.10
	3H	16.14	17.21	16.81	17.90	18.72	19.79	20.87	20.47	21.56	22.38
	4H	16.34	17.36	17.04	18.06	18.89	20.24	21.26	20.94	21.96	22.79
	6H	16.48	17.42	17.19	18.13	18.98	20.54	21.48	21.25	22.19	23.04
	8H	16.49	17.38	17.21	18.11	18.97	20.62	21.51	21.34	22.24	23.09
	12H	16.47	17.33	17.20	18.05	18.93	20.66	21.52	21.39	22.24	23.12
4H	2H	16.70	17.71	17.40	18.41	19.25	18.88	19.90	19.58	20.60	21.43
	3H	17.76	18.60	18.47	19.34	20.19	20.41	21.26	21.12	21.99	22.85
	4H	18.05	18.81	18.77	19.55	20.44	20.94	21.71	21.67	22.45	23.33
	6H	18.19	18.86	18.94	19.62	20.51	21.32	21.99	22.07	22.75	23.64
	8H	18.20	18.83	18.96	19.59	20.49	21.43	22.05	22.18	22.81	23.72
	12H	18.19	18.75	18.96	19.53	20.44	21.50	22.06	22.27	22.84	23.75
8H	4H	18.52	19.14	19.27	19.90	20.81	21.10	21.72	21.85	22.48	23.38
	6H	18.80	19.31	19.58	20.12	21.02	21.54	22.05	22.32	22.86	23.76
	8H	18.84	19.30	19.64	20.11	21.03	21.69	22.15	22.48	22.95	23.87
	12H	18.84	19.25	19.64	20.04	21.02	21.80	22.20	22.59	22.99	23.98
12H	4H	18.54	19.10	19.31	19.89	20.80	21.08	21.64	21.85	22.42	23.33
	6H	18.86	19.32	19.65	20.12	21.04	21.54	22.00	22.33	22.80	23.72
	8H	18.94	19.35	19.74	20.14	21.12	21.71	22.12	22.51	22.91	23.89