

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: P934098

Luminaire Tested: SQ4-FA-025U-100D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934098
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-B35-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

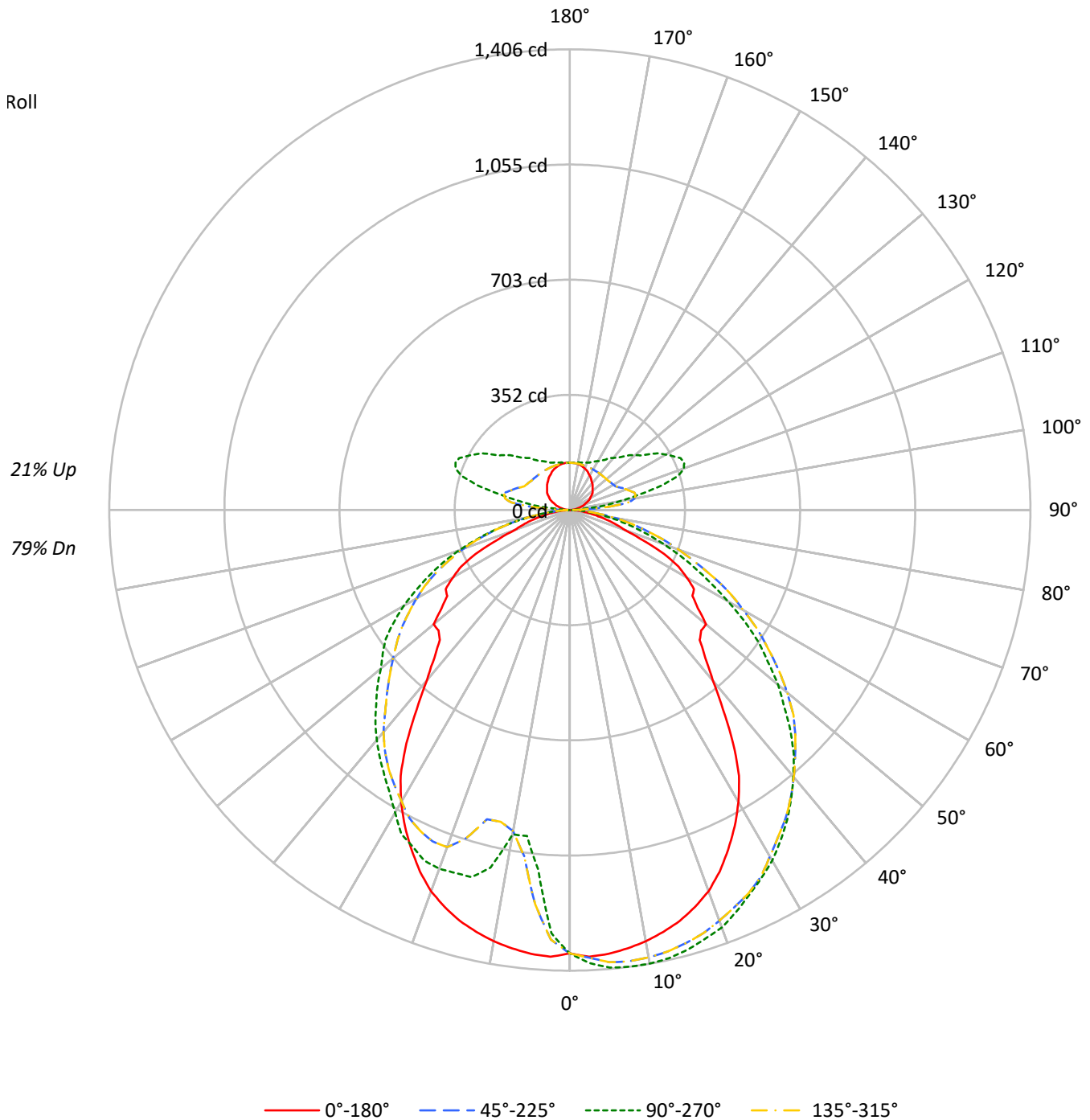
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4446.7 lumens
Efficiency: N/A
Efficacy: 114.6 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 (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	12557	12557	12557	12557
5°	12638	12676	12638	9967
10°	12539	12486	12539	8927
15°	12388	12216	12388	10200
20°	12115	11895	12115	10221
25°	11571	11428	11571	10005
30°	10873	11040	10873	9530
35°	9678	10549	9678	9007
40°	8051	9971	8051	8612
45°	7180	9294	7180	8159
50°	7609	8489	7609	7702
55°	7140	7619	7140	7438
60°	7332	6471	7332	6812
65°	6616	5348	6616	5979
70°	4552	4263	4552	5013
75°	3945	3151	3945	3773
80°	3117	2083	3117	2269
85°	1689	1103	1689	937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11024 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	2.7
10°-20°	346.8	7.8
20°-30°	536.1	12.1
30°-40°	640.0	14.4
40°-50°	643.8	14.5
50°-60°	560.2	12.6
60°-70°	397.2	8.9
70°-80°	210.1	4.7
80°-90°	52.9	1.2
90°-100°	70.5	1.6
100°-110°	185.3	4.2
110°-120°	192.2	4.3
120°-130°	154.1	3.5
130°-140°	120.9	2.7
140°-150°	92.8	2.1
150°-160°	66.8	1.5
160°-170°	40.9	0.9
170°-180°	13.8	0.3
0°-30°	1005.1	22.6
0°-40°	1645.2	37.0
0°-60°	2849.1	64.1
0°-90°	3509.3	78.9
90°-120°	448.0	10.1
90°-150°	815.9	18.3
90°-180°	937.0	21.1
0°-180°	4446.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1353	1353	1353	1353	1353	
5°	1360	1402	1360	1102	1360	129
15°	1298	1389	1298	1160	1298	365
25°	1143	1296	1143	1134	1143	525
35°	869	1156	869	987	869	538
45°	561	952	561	836	561	449
55°	457	703	457	686	457	420
65°	318	424	318	474	318	303
75°	120	201	120	241	120	127
85°	20	51	20	44	20	28
90°	1	4	1	4	1	2
95°	9	43	9	43	9	10
105°	33	290	33	290	33	35
115°	59	374	59	374	59	59
125°	82	298	82	298	82	73
135°	98	231	98	231	98	76
145°	114	187	114	187	114	71
155°	129	161	129	161	129	59
165°	139	150	139	150	139	39
175°	145	146	145	146	145	14
180°	145	145	145	145	145	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1364.7	1364.7	1372.5	1375.0	1375.0	1371.1	1367.4	1371.1	1382.7	1386.5	1385.3
5°	1359.7	1369.9	1384.0	1386.5	1389.1	1387.8	1385.3	1387.8	1400.6	1403.2	1404.5
7.5°	1349.4	1368.6	1386.5	1390.4	1394.2	1390.4	1389.1	1391.7	1404.5	1407.0	1407.0
10°	1336.6	1363.5	1384.0	1386.5	1390.4	1386.5	1386.5	1391.7	1404.5	1407.0	1408.3
12.5°	1318.7	1355.8	1375.0	1377.6	1382.7	1381.4	1380.1	1385.3	1398.1	1400.6	1400.6
15°	1298.2	1341.8	1359.7	1362.2	1371.1	1368.6	1368.6	1373.8	1387.8	1391.7	1390.4
17.5°	1270.1	1323.8	1344.3	1348.2	1354.6	1353.2	1354.6	1359.7	1372.5	1375.0	1376.3
20°	1238.0	1299.5	1323.8	1327.6	1334.0	1334.0	1334.0	1340.4	1353.2	1358.3	1358.3
22.5°	1194.5	1273.8	1299.5	1302.0	1309.7	1309.7	1312.3	1321.2	1332.8	1334.0	1334.0
25°	1143.3	1245.7	1267.5	1275.2	1282.9	1286.6	1290.5	1295.6	1299.5	1298.2	1299.5
27.5°	1089.5	1209.9	1238.0	1243.1	1253.4	1257.3	1262.3	1263.7	1264.9	1268.7	1266.2
30°	1029.4	1159.9	1202.1	1207.3	1223.9	1226.5	1221.4	1223.9	1230.3	1233.0	1235.5
32.5°	961.4	1085.7	1165.0	1176.6	1192.0	1184.2	1183.0	1186.8	1197.1	1197.1	1199.6
35°	869.3	1028.1	1130.5	1140.7	1152.2	1143.3	1148.4	1149.7	1156.1	1159.9	1158.6
37.5°	768.1	978.1	1094.7	1102.3	1111.2	1099.7	1107.5	1111.2	1116.4	1113.9	1113.9
40°	678.6	900.0	1052.4	1057.5	1065.2	1056.2	1063.9	1066.5	1069.0	1066.5	1065.2
42.5°	612.0	814.3	1007.6	1014.0	1008.8	1015.2	1017.8	1023.0	1019.1	1014.0	1014.0
45°	560.8	791.2	958.9	966.6	958.9	969.2	973.0	973.0	961.4	958.9	957.7
47.5°	544.1	745.2	910.3	910.3	906.4	919.2	925.7	916.7	905.1	901.4	901.4
50°	542.8	693.9	843.7	838.6	856.5	871.9	865.5	856.5	847.6	833.4	833.4
52.5°	492.9	631.2	758.0	777.1	805.3	814.3	804.0	795.1	779.7	773.3	768.1
55°	457.1	565.9	679.9	718.2	747.7	759.2	740.0	731.0	708.0	704.2	701.6
57.5°	449.4	471.1	608.1	656.8	692.6	691.4	679.9	663.2	644.0	640.1	638.9
60°	412.2	340.5	531.3	589.0	626.1	622.2	612.0	596.6	578.7	576.2	573.6
62.5°	373.8	247.1	444.3	509.6	562.0	560.8	551.8	528.8	516.0	509.6	504.5
65°	317.5	207.4	316.2	423.7	499.3	501.8	482.7	466.0	451.9	444.3	442.9
67.5°	242.0	169.0	213.8	353.4	439.2	436.5	412.2	404.6	386.6	382.8	375.1
70°	179.3	112.7	148.5	286.8	380.2	373.8	354.7	345.6	329.1	320.1	314.9
72.5°	148.5	90.9	108.8	222.8	320.1	312.4	295.7	285.5	271.4	263.8	258.6
75°	120.3	96.0	83.2	165.1	259.9	254.8	239.4	229.2	217.6	207.4	208.7
77.5°	88.4	89.6	66.6	121.6	206.1	198.5	189.4	176.6	171.5	161.3	161.3
80°	66.6	70.4	49.9	83.2	148.5	148.5	140.8	131.9	122.9	117.8	117.8
82.5°	44.8	44.8	37.1	52.5	101.2	97.3	92.2	89.6	84.5	82.0	82.0
85°	20.4	25.6	23.1	32.0	55.0	57.7	57.7	55.0	53.8	51.2	52.5
87.5°	6.4	11.5	14.1	17.9	28.2	29.5	30.7	30.7	30.7	32.0	32.0
90°	1.0	1.7	2.5	2.7	4.3	6.3	7.4	6.6	4.9	3.7	3.7
92.5°	3.9	10.5	17.1	18.7	26.4	36.5	41.6	36.4	26.2	18.4	17.6
95°	9.3	21.4	33.5	36.5	64.8	102.5	121.4	108.3	82.2	62.6	60.4
97.5°	16.1	26.7	37.4	40.1	87.3	150.2	181.7	173.5	156.9	144.5	140.2
100°	21.3	31.0	40.7	43.1	95.4	165.3	200.2	200.8	202.0	202.9	197.9
102.5°	25.8	34.8	43.9	46.1	99.2	170.1	205.4	216.0	237.0	252.8	248.5
105°	33.4	41.1	48.6	50.6	102.0	170.5	204.8	228.5	275.7	311.0	308.7
107.5°	41.2	48.3	55.4	57.2	102.5	163.0	193.2	226.2	292.0	341.4	342.0
110°	46.4	52.8	59.2	60.9	101.7	156.3	183.5	220.4	293.9	349.1	351.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	51.6	57.7	63.8	65.3	101.7	150.4	174.7	212.4	287.7	344.2	347.9
115°	59.3	64.9	70.5	72.0	102.7	143.7	164.1	200.4	273.0	327.3	332.5
117.5°	67.0	72.1	77.2	78.5	104.7	139.4	156.9	189.6	255.0	304.2	309.9
120°	71.4	76.3	81.1	82.3	106.1	138.0	153.9	183.8	243.7	288.6	294.1
122.5°	75.8	80.6	85.5	86.7	108.3	137.2	151.6	178.6	232.5	272.9	278.3
125°	82.5	86.9	91.4	92.5	111.4	136.6	149.2	172.1	217.9	252.2	257.3
127.5°	87.9	92.4	96.9	98.1	114.4	136.2	147.2	166.9	206.2	235.7	239.9
130°	90.8	95.6	100.5	101.7	116.7	136.5	146.4	164.0	198.9	225.2	229.1
132.5°	93.9	98.7	103.6	104.7	118.4	136.6	145.7	161.4	192.7	216.3	219.8
135°	98.4	102.7	107.2	108.2	120.3	136.5	144.6	157.7	183.9	203.6	206.6
137.5°	102.9	107.3	111.6	112.7	123.3	137.3	144.4	155.4	177.6	194.3	196.8
140°	106.7	110.7	114.7	115.7	125.0	137.5	143.7	153.3	172.5	186.8	189.1
142.5°	109.6	113.3	117.0	117.9	126.6	138.0	143.7	152.1	169.0	181.6	183.6
145°	114.1	117.2	120.5	121.3	128.5	138.0	142.7	149.6	163.4	173.7	175.3
147.5°	118.5	121.6	124.8	125.6	131.3	139.0	142.7	148.2	159.0	167.2	168.4
150°	121.4	124.2	127.1	127.8	132.8	139.4	142.7	147.3	156.5	163.4	164.3
152.5°	124.4	126.6	128.7	129.3	133.7	139.7	142.7	146.6	154.5	160.4	161.1
155°	128.9	130.4	132.1	132.5	135.9	140.4	142.7	145.8	152.1	156.8	157.3
157.5°	132.2	133.7	135.3	135.7	138.0	141.2	142.7	145.2	150.0	153.6	154.0
160°	134.4	135.6	136.8	137.1	139.0	141.5	142.7	144.8	148.9	152.0	152.2
162.5°	136.6	137.5	138.5	138.7	140.0	141.9	142.7	144.5	148.0	150.6	150.8
165°	139.1	139.8	140.7	140.9	141.5	142.3	142.7	144.0	146.5	148.4	148.5
167.5°	141.3	141.7	142.1	142.2	142.6	143.3	143.7	144.5	146.1	147.4	147.5
170°	142.7	143.1	143.5	143.6	143.6	143.7	143.7	144.5	146.1	147.4	147.4
172.5°	143.5	143.6	143.7	143.7	143.7	143.7	143.7	144.4	145.6	146.6	146.5
175°	144.6	144.6	144.6	144.6	144.3	143.9	143.7	144.1	145.0	145.5	145.5
177.5°	144.6	144.6	144.6	144.6	144.4	144.1	143.9	144.2	144.9	145.4	145.3
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1387.8	1384.0	1387.8	1385.3	1386.5	1382.7	1371.1	1367.4	1371.1	1375.0	1375.0
5°	1404.5	1401.9	1404.5	1404.5	1403.2	1400.6	1387.8	1385.3	1387.8	1389.1	1386.5
7.5°	1409.6	1405.7	1409.6	1407.0	1407.0	1404.5	1391.7	1389.1	1390.4	1394.2	1390.4
10°	1409.6	1405.7	1409.6	1408.3	1407.0	1404.5	1391.7	1386.5	1386.5	1390.4	1386.5
12.5°	1403.2	1400.6	1403.2	1400.6	1400.6	1398.1	1385.3	1380.1	1381.4	1382.7	1377.6
15°	1392.9	1389.1	1392.9	1390.4	1391.7	1387.8	1373.8	1368.6	1368.6	1371.1	1362.2
17.5°	1377.6	1372.5	1377.6	1376.3	1375.0	1372.5	1359.7	1354.6	1353.2	1354.6	1348.2
20°	1359.7	1355.8	1359.7	1358.3	1358.3	1353.2	1340.4	1334.0	1334.0	1334.0	1327.6
22.5°	1331.5	1327.6	1331.5	1334.0	1334.0	1332.8	1321.2	1312.3	1309.7	1309.7	1302.0
25°	1299.5	1295.6	1299.5	1299.5	1298.2	1299.5	1295.6	1290.5	1286.6	1282.9	1275.2
27.5°	1268.7	1266.2	1268.7	1266.2	1268.7	1264.9	1263.7	1262.3	1257.3	1253.4	1243.1
30°	1238.0	1235.5	1238.0	1235.5	1233.0	1230.3	1223.9	1221.4	1226.5	1223.9	1207.3
32.5°	1199.6	1197.1	1199.6	1199.6	1197.1	1197.1	1186.8	1183.0	1184.2	1192.0	1176.6
35°	1159.9	1156.1	1159.9	1158.6	1159.9	1156.1	1149.7	1148.4	1143.3	1152.2	1140.7
37.5°	1113.9	1110.0	1113.9	1113.9	1113.9	1116.4	1111.2	1107.5	1099.7	1111.2	1102.3
40°	1066.5	1061.3	1066.5	1065.2	1066.5	1069.0	1066.5	1063.9	1056.2	1065.2	1057.5
42.5°	1012.7	1011.4	1012.7	1014.0	1014.0	1019.1	1023.0	1017.8	1015.2	1008.8	1014.0
45°	955.0	952.5	955.0	957.7	958.9	961.4	973.0	973.0	969.2	958.9	966.6
47.5°	893.6	887.2	893.6	901.4	901.4	905.1	916.7	925.7	919.2	906.4	910.3
50°	828.3	829.7	828.3	833.4	833.4	847.6	856.5	865.5	871.9	856.5	838.6
52.5°	764.3	763.1	764.3	768.1	773.3	779.7	795.1	804.0	814.3	805.3	777.1
55°	700.3	702.9	700.3	701.6	704.2	708.0	731.0	740.0	759.2	747.7	718.2
57.5°	636.3	632.5	636.3	638.9	640.1	644.0	663.2	679.9	691.4	692.6	656.8
60°	562.0	556.9	562.0	573.6	576.2	578.7	596.6	612.0	622.2	626.1	589.0
62.5°	496.7	487.8	496.7	504.5	509.6	516.0	528.8	551.8	560.8	562.0	509.6
65°	427.6	423.7	427.6	442.9	444.3	451.9	466.0	482.7	501.8	499.3	423.7
67.5°	364.9	364.9	364.9	375.1	382.8	386.6	404.6	412.2	436.5	439.2	353.4
70°	307.3	306.0	307.3	314.9	320.1	329.1	345.6	354.7	373.8	380.2	286.8
72.5°	252.2	251.0	252.2	258.6	263.8	271.4	285.5	295.7	312.4	320.1	222.8
75°	203.6	201.0	203.6	208.7	207.4	217.6	229.2	239.4	254.8	259.9	165.1
77.5°	156.2	156.2	156.2	161.3	161.3	171.5	176.6	189.4	198.5	206.1	121.6
80°	116.5	115.2	116.5	117.8	117.8	122.9	131.9	140.8	148.5	148.5	83.2
82.5°	82.0	79.4	82.0	82.0	82.0	84.5	89.6	92.2	97.3	101.2	52.5
85°	51.2	51.2	51.2	52.5	51.2	53.8	55.0	57.7	57.7	55.0	32.0
87.5°	33.3	32.0	33.3	32.0	32.0	30.7	30.7	30.7	29.5	28.2	17.9
90°	3.7	3.7	3.7	3.7	3.7	4.9	6.6	7.4	6.3	4.3	2.7
92.5°	14.7	11.8	14.7	17.6	18.4	26.2	36.4	41.6	36.5	26.4	18.7
95°	51.6	42.6	51.6	60.4	62.6	82.2	108.3	121.4	102.5	64.8	36.5
97.5°	123.4	106.5	123.4	140.2	144.5	156.9	173.5	181.7	150.2	87.3	40.1
100°	177.8	157.7	177.8	197.9	202.9	202.0	200.8	200.2	165.3	95.4	43.1
102.5°	231.2	214.0	231.2	248.5	252.8	237.0	216.0	205.4	170.1	99.2	46.1
105°	299.5	290.2	299.5	308.7	311.0	275.7	228.5	204.8	170.5	102.0	50.6
107.5°	344.2	346.4	344.2	342.0	341.4	292.0	226.2	193.2	163.0	102.5	57.2
110°	361.1	370.8	361.1	351.6	349.1	293.9	220.4	183.5	156.3	101.7	60.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	362.7	377.5	362.7	347.9	344.2	287.7	212.4	174.7	150.4	101.7	65.3
115°	353.1	373.6	353.1	332.5	327.3	273.0	200.4	164.1	143.7	102.7	72.0
117.5°	332.7	355.5	332.7	309.9	304.2	255.0	189.6	156.9	139.4	104.7	78.5
120°	316.3	338.4	316.3	294.1	288.6	243.7	183.8	153.9	138.0	106.1	82.3
122.5°	300.2	322.1	300.2	278.3	272.9	232.5	178.6	151.6	137.2	108.3	86.7
125°	277.4	297.6	277.4	257.3	252.2	217.9	172.1	149.2	136.6	111.4	92.5
127.5°	256.9	273.8	256.9	239.9	235.7	206.2	166.9	147.2	136.2	114.4	98.1
130°	244.8	260.5	244.8	229.1	225.2	198.9	164.0	146.4	136.5	116.7	101.7
132.5°	233.8	247.9	233.8	219.8	216.3	192.7	161.4	145.7	136.6	118.4	104.7
135°	218.8	230.9	218.8	206.6	203.6	183.9	157.7	144.6	136.5	120.3	108.2
137.5°	206.7	216.7	206.7	196.8	194.3	177.6	155.4	144.4	137.3	123.3	112.7
140°	198.4	207.7	198.4	189.1	186.8	172.5	153.3	143.7	137.5	125.0	115.7
142.5°	191.6	199.5	191.6	183.6	181.6	169.0	152.1	143.7	138.0	126.6	117.9
145°	181.3	187.3	181.3	175.3	173.7	163.4	149.6	142.7	138.0	128.5	121.3
147.5°	173.4	178.4	173.4	168.4	167.2	159.0	148.2	142.7	139.0	131.3	125.6
150°	168.4	172.5	168.4	164.3	163.4	156.5	147.3	142.7	139.4	132.8	127.8
152.5°	164.1	167.2	164.1	161.1	160.4	154.5	146.6	142.7	139.7	133.7	129.3
155°	159.3	161.3	159.3	157.3	156.8	152.1	145.8	142.7	140.4	135.9	132.5
157.5°	155.4	156.9	155.4	154.0	153.6	150.0	145.2	142.7	141.2	138.0	135.7
160°	153.1	153.9	153.1	152.2	152.0	148.9	144.8	142.7	141.5	139.0	137.1
162.5°	151.6	152.3	151.6	150.8	150.6	148.0	144.5	142.7	141.9	140.0	138.7
165°	149.4	150.2	149.4	148.5	148.4	146.5	144.0	142.7	142.3	141.5	140.9
167.5°	147.8	148.2	147.8	147.5	147.4	146.1	144.5	143.7	143.3	142.6	142.2
170°	147.4	147.4	147.4	147.4	147.4	146.1	144.5	143.7	143.7	143.6	143.6
172.5°	146.2	145.9	146.2	146.5	146.6	145.6	144.4	143.7	143.7	143.7	143.7
175°	145.5	145.5	145.5	145.5	145.5	145.0	144.1	143.7	143.9	144.3	144.6
177.5°	145.0	144.6	145.0	145.3	145.4	144.9	144.2	143.9	144.1	144.4	144.6
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6



TEST NUMBER: P934098

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1372.5	1364.7	1364.7	1351.9	1346.8	1343.0	1336.6	1317.5	1312.3	1307.2	1314.8
5°	1384.0	1369.9	1359.7	1336.6	1317.5	1309.7	1285.4	1239.4	1208.5	1185.6	1172.8
7.5°	1386.5	1368.6	1349.4	1313.6	1267.5	1247.0	1172.8	1088.3	1065.2	1044.7	1031.9
10°	1384.0	1363.5	1336.6	1282.9	1174.0	1138.2	1063.9	1008.8	994.8	990.9	994.8
12.5°	1375.0	1355.8	1318.7	1229.1	1076.8	1052.4	1008.8	976.8	974.3	980.7	1015.2
15°	1359.7	1341.8	1298.2	1157.4	1023.0	1005.0	974.3	962.8	976.8	1021.6	1125.4
17.5°	1344.3	1323.8	1270.1	1086.9	982.0	969.2	947.4	970.5	1049.8	1110.0	1144.6
20°	1323.8	1299.5	1238.0	1035.8	952.5	941.0	930.7	1034.5	1094.7	1116.4	1135.6
22.5°	1299.5	1273.8	1194.5	999.9	921.8	912.8	919.2	1070.4	1094.7	1110.0	1126.7
25°	1267.5	1245.7	1143.3	971.7	897.5	887.2	911.5	1066.5	1080.5	1084.4	1117.6
27.5°	1238.0	1209.9	1089.5	946.1	868.0	864.2	917.9	1049.8	1060.1	1063.9	1099.7
30°	1202.1	1159.9	1029.4	919.2	837.3	836.1	919.2	1029.4	1026.8	1037.0	1072.9
32.5°	1165.0	1085.7	961.4	886.0	807.9	806.6	910.3	998.7	996.0	1010.2	1037.0
35°	1130.5	1028.1	869.3	847.6	770.7	772.0	888.5	962.8	964.1	976.8	993.5
37.5°	1094.7	978.1	768.1	805.3	734.9	734.9	859.0	929.5	926.9	930.7	953.8
40°	1052.4	900.0	678.6	750.2	701.6	697.8	823.3	893.6	884.7	883.4	915.4
42.5°	1007.6	814.3	612.0	677.2	663.2	658.0	779.7	850.1	833.4	837.3	878.3
45°	958.9	791.2	560.8	572.3	623.5	619.7	732.3	800.2	788.7	798.9	841.2
47.5°	910.3	745.2	544.1	475.0	581.2	579.9	679.9	751.6	745.2	755.3	800.2
50°	843.7	693.9	542.8	407.2	533.9	539.0	617.1	704.2	704.2	713.1	760.5
52.5°	758.0	631.2	492.9	368.7	478.8	494.2	562.0	663.2	665.7	674.7	717.0
55°	679.9	565.9	457.1	339.2	413.6	446.8	508.2	620.9	626.1	635.0	673.5
57.5°	608.1	471.1	449.4	304.8	353.4	385.4	460.9	579.9	582.6	590.2	627.3
60°	531.3	340.5	412.2	267.5	300.9	325.2	417.3	531.3	540.3	545.4	577.4
62.5°	444.3	247.1	373.8	242.0	275.3	280.4	381.5	485.2	496.7	500.6	519.8
65°	316.2	207.4	317.5	220.3	248.4	249.6	343.1	437.9	448.1	454.5	468.6
67.5°	213.8	169.0	242.0	199.7	227.9	229.2	306.0	382.8	396.9	402.0	411.0
70°	148.5	112.7	179.3	178.0	204.8	207.4	266.3	332.9	345.6	349.5	354.7
72.5°	108.8	90.9	148.5	160.1	180.5	183.0	225.3	276.6	289.3	293.2	295.7
75°	83.2	96.0	120.3	139.5	153.6	154.9	184.4	225.3	234.3	236.8	238.1
77.5°	66.6	89.6	88.4	112.7	125.5	122.9	144.7	174.1	181.8	181.8	181.8
80°	49.9	70.4	66.6	80.6	92.2	89.6	103.7	124.2	126.7	129.3	128.0
82.5°	37.1	44.8	44.8	51.2	61.4	58.9	69.1	80.6	80.6	80.6	83.2
85°	23.1	25.6	20.4	26.8	34.6	33.3	38.4	43.5	44.8	44.8	42.2
87.5°	14.1	11.5	6.4	10.3	15.4	15.4	17.9	19.2	17.9	17.9	17.9
90°	2.5	1.7	1.0	1.7	2.5	2.7	4.3	6.3	7.4	6.6	4.9
92.5°	17.1	10.5	3.9	10.5	17.1	18.7	26.4	36.5	41.6	36.4	26.2
95°	33.5	21.4	9.3	21.4	33.5	36.5	64.8	102.5	121.4	108.3	82.2
97.5°	37.4	26.7	16.1	26.7	37.4	40.1	87.3	150.2	181.7	173.5	156.9
100°	40.7	31.0	21.3	31.0	40.7	43.1	95.4	165.3	200.2	200.8	202.0
102.5°	43.9	34.8	25.8	34.8	43.9	46.1	99.2	170.1	205.4	216.0	237.0
105°	48.6	41.1	33.4	41.1	48.6	50.6	102.0	170.5	204.8	228.5	275.7
107.5°	55.4	48.3	41.2	48.3	55.4	57.2	102.5	163.0	193.2	226.2	292.0
110°	59.2	52.8	46.4	52.8	59.2	60.9	101.7	156.3	183.5	220.4	293.9



TEST NUMBER: P934098

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	63.8	57.7	51.6	57.7	63.8	65.3	101.7	150.4	174.7	212.4	287.7
115°	70.5	64.9	59.3	64.9	70.5	72.0	102.7	143.7	164.1	200.4	273.0
117.5°	77.2	72.1	67.0	72.1	77.2	78.5	104.7	139.4	156.9	189.6	255.0
120°	81.1	76.3	71.4	76.3	81.1	82.3	106.1	138.0	153.9	183.8	243.7
122.5°	85.5	80.6	75.8	80.6	85.5	86.7	108.3	137.2	151.6	178.6	232.5
125°	91.4	86.9	82.5	86.9	91.4	92.5	111.4	136.6	149.2	172.1	217.9
127.5°	96.9	92.4	87.9	92.4	96.9	98.1	114.4	136.2	147.2	166.9	206.2
130°	100.5	95.6	90.8	95.6	100.5	101.7	116.7	136.5	146.4	164.0	198.9
132.5°	103.6	98.7	93.9	98.7	103.6	104.7	118.4	136.6	145.7	161.4	192.7
135°	107.2	102.7	98.4	102.7	107.2	108.2	120.3	136.5	144.6	157.7	183.9
137.5°	111.6	107.3	102.9	107.3	111.6	112.7	123.3	137.3	144.4	155.4	177.6
140°	114.7	110.7	106.7	110.7	114.7	115.7	125.0	137.5	143.7	153.3	172.5
142.5°	117.0	113.3	109.6	113.3	117.0	117.9	126.6	138.0	143.7	152.1	169.0
145°	120.5	117.2	114.1	117.2	120.5	121.3	128.5	138.0	142.7	149.6	163.4
147.5°	124.8	121.6	118.5	121.6	124.8	125.6	131.3	139.0	142.7	148.2	159.0
150°	127.1	124.2	121.4	124.2	127.1	127.8	132.8	139.4	142.7	147.3	156.5
152.5°	128.7	126.6	124.4	126.6	128.7	129.3	133.7	139.7	142.7	146.6	154.5
155°	132.1	130.4	128.9	130.4	132.1	132.5	135.9	140.4	142.7	145.8	152.1
157.5°	135.3	133.7	132.2	133.7	135.3	135.7	138.0	141.2	142.7	145.2	150.0
160°	136.8	135.6	134.4	135.6	136.8	137.1	139.0	141.5	142.7	144.8	148.9
162.5°	138.5	137.5	136.6	137.5	138.5	138.7	140.0	141.9	142.7	144.5	148.0
165°	140.7	139.8	139.1	139.8	140.7	140.9	141.5	142.3	142.7	144.0	146.5
167.5°	142.1	141.7	141.3	141.7	142.1	142.2	142.6	143.3	143.7	144.5	146.1
170°	143.5	143.1	142.7	143.1	143.5	143.6	143.6	143.7	143.7	144.5	146.1
172.5°	143.7	143.6	143.5	143.6	143.7	143.7	143.7	143.7	143.7	144.4	145.6
175°	144.6	144.6	144.6	144.6	144.6	144.6	144.3	143.9	143.7	144.1	145.0
177.5°	144.6	144.6	144.6	144.6	144.6	144.6	144.4	144.1	143.9	144.2	144.9
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6



TEST NUMBER: P934098
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1305.9	1302.0	1307.2	1293.0	1307.2	1302.0	1305.9	1314.8	1307.2	1312.3	1317.5
5°	1145.8	1139.4	1119.0	1102.3	1119.0	1139.4	1145.8	1172.8	1185.6	1208.5	1239.4
7.5°	1024.2	1019.1	1014.0	1003.7	1014.0	1019.1	1024.2	1031.9	1044.7	1065.2	1088.3
10°	997.3	998.7	1006.3	1005.0	1006.3	998.7	997.3	994.8	990.9	994.8	1008.8
12.5°	1066.5	1078.0	1120.3	1117.6	1120.3	1078.0	1066.5	1015.2	980.7	974.3	976.8
15°	1145.8	1149.7	1158.6	1159.9	1158.6	1149.7	1145.8	1125.4	1021.6	976.8	962.8
17.5°	1153.5	1154.9	1161.2	1161.2	1161.2	1154.9	1153.5	1144.6	1110.0	1049.8	970.5
20°	1147.1	1149.7	1162.5	1165.0	1162.5	1149.7	1147.1	1135.6	1116.4	1094.7	1034.5
22.5°	1144.6	1149.7	1159.9	1158.6	1159.9	1149.7	1144.6	1126.7	1110.0	1094.7	1070.4
25°	1131.8	1131.8	1133.1	1134.3	1133.1	1131.8	1131.8	1117.6	1084.4	1080.5	1066.5
27.5°	1104.9	1107.5	1115.1	1113.9	1115.1	1107.5	1104.9	1099.7	1063.9	1060.1	1049.8
30°	1080.5	1078.0	1071.6	1066.5	1071.6	1078.0	1080.5	1072.9	1037.0	1026.8	1029.4
32.5°	1039.5	1033.1	1026.8	1023.0	1026.8	1033.1	1039.5	1037.0	1010.2	996.0	998.7
35°	990.9	992.3	990.9	987.1	990.9	992.3	990.9	993.5	976.8	964.1	962.8
37.5°	956.4	958.9	957.7	952.5	957.7	958.9	956.4	953.8	930.7	926.9	929.5
40°	920.6	921.8	920.6	916.7	920.6	921.8	920.6	915.4	883.4	884.7	893.6
42.5°	886.0	884.7	880.8	878.3	880.8	884.7	886.0	878.3	837.3	833.4	850.1
45°	846.2	847.6	839.8	836.1	839.8	847.6	846.2	841.2	798.9	788.7	800.2
47.5°	806.6	806.6	800.2	796.3	800.2	806.6	806.6	800.2	755.3	745.2	751.6
50°	764.3	763.1	754.1	752.8	754.1	763.1	764.3	760.5	713.1	704.2	704.2
52.5°	715.7	715.7	717.0	719.5	717.0	715.7	715.7	717.0	674.7	665.7	663.2
55°	673.5	674.7	683.6	686.2	683.6	674.7	673.5	673.5	635.0	626.1	620.9
57.5°	629.8	629.8	636.3	636.3	636.3	629.8	629.8	627.3	590.2	582.6	579.9
60°	579.9	582.6	587.6	586.3	587.6	582.6	579.9	577.4	545.4	540.3	531.3
62.5°	527.4	530.0	531.3	528.8	531.3	530.0	527.4	519.8	500.6	496.7	485.2
65°	472.4	475.0	476.3	473.7	476.3	475.0	472.4	468.6	454.5	448.1	437.9
67.5°	416.1	414.8	413.6	418.6	413.6	414.8	416.1	411.0	402.0	396.9	382.8
70°	358.4	358.4	357.2	359.8	357.2	358.4	358.4	354.7	349.5	345.6	332.9
72.5°	297.0	295.7	300.9	297.0	300.9	295.7	297.0	295.7	293.2	289.3	276.6
75°	236.8	239.4	236.8	240.7	236.8	239.4	236.8	238.1	236.8	234.3	225.3
77.5°	180.5	183.0	180.5	180.5	180.5	183.0	180.5	181.8	181.8	181.8	174.1
80°	128.0	126.7	126.7	125.5	126.7	126.7	128.0	128.0	129.3	126.7	124.2
82.5°	82.0	80.6	80.6	83.2	80.6	80.6	82.0	83.2	80.6	80.6	80.6
85°	44.8	46.1	43.5	43.5	43.5	46.1	44.8	42.2	44.8	44.8	43.5
87.5°	16.7	15.4	15.4	15.4	15.4	15.4	16.7	17.9	17.9	17.9	19.2
90°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9	6.6	7.4	6.3
92.5°	18.4	17.6	14.7	11.8	14.7	17.6	18.4	26.2	36.4	41.6	36.5
95°	62.6	60.4	51.6	42.6	51.6	60.4	62.6	82.2	108.3	121.4	102.5
97.5°	144.5	140.2	123.4	106.5	123.4	140.2	144.5	156.9	173.5	181.7	150.2
100°	202.9	197.9	177.8	157.7	177.8	197.9	202.9	202.0	200.8	200.2	165.3
102.5°	252.8	248.5	231.2	214.0	231.2	248.5	252.8	237.0	216.0	205.4	170.1
105°	311.0	308.7	299.5	290.2	299.5	308.7	311.0	275.7	228.5	204.8	170.5
107.5°	341.4	342.0	344.2	346.4	344.2	342.0	341.4	292.0	226.2	193.2	163.0
110°	349.1	351.6	361.1	370.8	361.1	351.6	349.1	293.9	220.4	183.5	156.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	344.2	347.9	362.7	377.5	362.7	347.9	344.2	287.7	212.4	174.7	150.4
115°	327.3	332.5	353.1	373.6	353.1	332.5	327.3	273.0	200.4	164.1	143.7
117.5°	304.2	309.9	332.7	355.5	332.7	309.9	304.2	255.0	189.6	156.9	139.4
120°	288.6	294.1	316.3	338.4	316.3	294.1	288.6	243.7	183.8	153.9	138.0
122.5°	272.9	278.3	300.2	322.1	300.2	278.3	272.9	232.5	178.6	151.6	137.2
125°	252.2	257.3	277.4	297.6	277.4	257.3	252.2	217.9	172.1	149.2	136.6
127.5°	235.7	239.9	256.9	273.8	256.9	239.9	235.7	206.2	166.9	147.2	136.2
130°	225.2	229.1	244.8	260.5	244.8	229.1	225.2	198.9	164.0	146.4	136.5
132.5°	216.3	219.8	233.8	247.9	233.8	219.8	216.3	192.7	161.4	145.7	136.6
135°	203.6	206.6	218.8	230.9	218.8	206.6	203.6	183.9	157.7	144.6	136.5
137.5°	194.3	196.8	206.7	216.7	206.7	196.8	194.3	177.6	155.4	144.4	137.3
140°	186.8	189.1	198.4	207.7	198.4	189.1	186.8	172.5	153.3	143.7	137.5
142.5°	181.6	183.6	191.6	199.5	191.6	183.6	181.6	169.0	152.1	143.7	138.0
145°	173.7	175.3	181.3	187.3	181.3	175.3	173.7	163.4	149.6	142.7	138.0
147.5°	167.2	168.4	173.4	178.4	173.4	168.4	167.2	159.0	148.2	142.7	139.0
150°	163.4	164.3	168.4	172.5	168.4	164.3	163.4	156.5	147.3	142.7	139.4
152.5°	160.4	161.1	164.1	167.2	164.1	161.1	160.4	154.5	146.6	142.7	139.7
155°	156.8	157.3	159.3	161.3	159.3	157.3	156.8	152.1	145.8	142.7	140.4
157.5°	153.6	154.0	155.4	156.9	155.4	154.0	153.6	150.0	145.2	142.7	141.2
160°	152.0	152.2	153.1	153.9	153.1	152.2	152.0	148.9	144.8	142.7	141.5
162.5°	150.6	150.8	151.6	152.3	151.6	150.8	150.6	148.0	144.5	142.7	141.9
165°	148.4	148.5	149.4	150.2	149.4	148.5	148.4	146.5	144.0	142.7	142.3
167.5°	147.4	147.5	147.8	148.2	147.8	147.5	147.4	146.1	144.5	143.7	143.3
170°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	146.1	144.5	143.7	143.7
172.5°	146.6	146.5	146.2	145.9	146.2	146.5	146.6	145.6	144.4	143.7	143.7
175°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.0	144.1	143.7	143.9
177.5°	145.4	145.3	145.0	144.6	145.0	145.3	145.4	144.9	144.2	143.9	144.1
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1336.6	1343.0	1346.8	1351.9	1364.7
5°	1285.4	1309.7	1317.5	1336.6	1359.7
7.5°	1172.8	1247.0	1267.5	1313.6	1349.4
10°	1063.9	1138.2	1174.0	1282.9	1336.6
12.5°	1008.8	1052.4	1076.8	1229.1	1318.7
15°	974.3	1005.0	1023.0	1157.4	1298.2
17.5°	947.4	969.2	982.0	1086.9	1270.1
20°	930.7	941.0	952.5	1035.8	1238.0
22.5°	919.2	912.8	921.8	999.9	1194.5
25°	911.5	887.2	897.5	971.7	1143.3
27.5°	917.9	864.2	868.0	946.1	1089.5
30°	919.2	836.1	837.3	919.2	1029.4
32.5°	910.3	806.6	807.9	886.0	961.4
35°	888.5	772.0	770.7	847.6	869.3
37.5°	859.0	734.9	734.9	805.3	768.1
40°	823.3	697.8	701.6	750.2	678.6
42.5°	779.7	658.0	663.2	677.2	612.0
45°	732.3	619.7	623.5	572.3	560.8
47.5°	679.9	579.9	581.2	475.0	544.1
50°	617.1	539.0	533.9	407.2	542.8
52.5°	562.0	494.2	478.8	368.7	492.9
55°	508.2	446.8	413.6	339.2	457.1
57.5°	460.9	385.4	353.4	304.8	449.4
60°	417.3	325.2	300.9	267.5	412.2
62.5°	381.5	280.4	275.3	242.0	373.8
65°	343.1	249.6	248.4	220.3	317.5
67.5°	306.0	229.2	227.9	199.7	242.0
70°	266.3	207.4	204.8	178.0	179.3
72.5°	225.3	183.0	180.5	160.1	148.5
75°	184.4	154.9	153.6	139.5	120.3
77.5°	144.7	122.9	125.5	112.7	88.4
80°	103.7	89.6	92.2	80.6	66.6
82.5°	69.1	58.9	61.4	51.2	44.8
85°	38.4	33.3	34.6	26.8	20.4
87.5°	17.9	15.4	15.4	10.3	6.4
90°	4.3	2.7	2.5	1.7	1.0
92.5°	26.4	18.7	17.1	10.5	3.9
95°	64.8	36.5	33.5	21.4	9.3
97.5°	87.3	40.1	37.4	26.7	16.1
100°	95.4	43.1	40.7	31.0	21.3
102.5°	99.2	46.1	43.9	34.8	25.8
105°	102.0	50.6	48.6	41.1	33.4
107.5°	102.5	57.2	55.4	48.3	41.2
110°	101.7	60.9	59.2	52.8	46.4



TEST NUMBER: P934098

CATALOG NUMBER: SQ4-FA-025U-100D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	101.7	65.3	63.8	57.7	51.6
115°	102.7	72.0	70.5	64.9	59.3
117.5°	104.7	78.5	77.2	72.1	67.0
120°	106.1	82.3	81.1	76.3	71.4
122.5°	108.3	86.7	85.5	80.6	75.8
125°	111.4	92.5	91.4	86.9	82.5
127.5°	114.4	98.1	96.9	92.4	87.9
130°	116.7	101.7	100.5	95.6	90.8
132.5°	118.4	104.7	103.6	98.7	93.9
135°	120.3	108.2	107.2	102.7	98.4
137.5°	123.3	112.7	111.6	107.3	102.9
140°	125.0	115.7	114.7	110.7	106.7
142.5°	126.6	117.9	117.0	113.3	109.6
145°	128.5	121.3	120.5	117.2	114.1
147.5°	131.3	125.6	124.8	121.6	118.5
150°	132.8	127.8	127.1	124.2	121.4
152.5°	133.7	129.3	128.7	126.6	124.4
155°	135.9	132.5	132.1	130.4	128.9
157.5°	138.0	135.7	135.3	133.7	132.2
160°	139.0	137.1	136.8	135.6	134.4
162.5°	140.0	138.7	138.5	137.5	136.6
165°	141.5	140.9	140.7	139.8	139.1
167.5°	142.6	142.2	142.1	141.7	141.3
170°	143.6	143.6	143.5	143.1	142.7
172.5°	143.7	143.7	143.7	143.6	143.5
175°	144.3	144.6	144.6	144.6	144.6
177.5°	144.4	144.6	144.6	144.6	144.6
180°	144.6	144.6	144.6	144.6	144.6



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.92	17.12	16.58	17.80	18.58	18.72	19.92	19.38	20.59	21.38
	3H	16.42	17.50	17.10	18.19	19.01	20.08	21.15	20.75	21.84	22.66
	4H	16.63	17.64	17.32	18.34	19.18	20.53	21.55	21.23	22.25	23.08
	6H	16.76	17.70	17.47	18.41	19.26	20.82	21.76	21.53	22.47	23.32
	8H	16.77	17.67	17.49	18.40	19.25	20.90	21.80	21.62	22.53	23.38
	12H	16.76	17.61	17.48	18.33	19.21	20.95	21.80	21.68	22.53	23.41
4H	2H	16.98	18.00	17.68	18.70	19.53	19.17	20.18	19.87	20.88	21.72
	3H	18.04	18.89	18.75	19.62	20.48	20.69	21.54	21.41	22.28	23.13
	4H	18.33	19.10	19.06	19.84	20.72	21.23	22.00	21.96	22.74	23.62
	6H	18.48	19.14	19.22	19.91	20.80	21.61	22.27	22.35	23.04	23.93
	8H	18.49	19.11	19.24	19.87	20.78	21.72	22.34	22.47	23.10	24.00
	12H	18.47	19.03	19.24	19.82	20.73	21.78	22.34	22.56	23.13	24.04
8H	4H	18.81	19.43	19.56	20.19	21.09	21.38	22.00	22.13	22.77	23.67
	6H	19.08	19.60	19.86	20.40	21.31	21.82	22.34	22.61	23.14	24.05
	8H	19.13	19.59	19.92	20.39	21.31	21.97	22.43	22.77	23.24	24.16
	12H	19.13	19.53	19.92	20.33	21.31	22.08	22.49	22.88	23.28	24.26
12H	4H	18.83	19.39	19.60	20.17	21.08	21.36	21.92	22.13	22.71	23.62
	6H	19.14	19.60	19.94	20.41	21.33	21.82	22.28	22.62	23.09	24.01
	8H	19.23	19.63	20.02	20.42	21.41	22.00	22.40	22.79	23.19	24.18