

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: P935103

Luminaire Tested: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

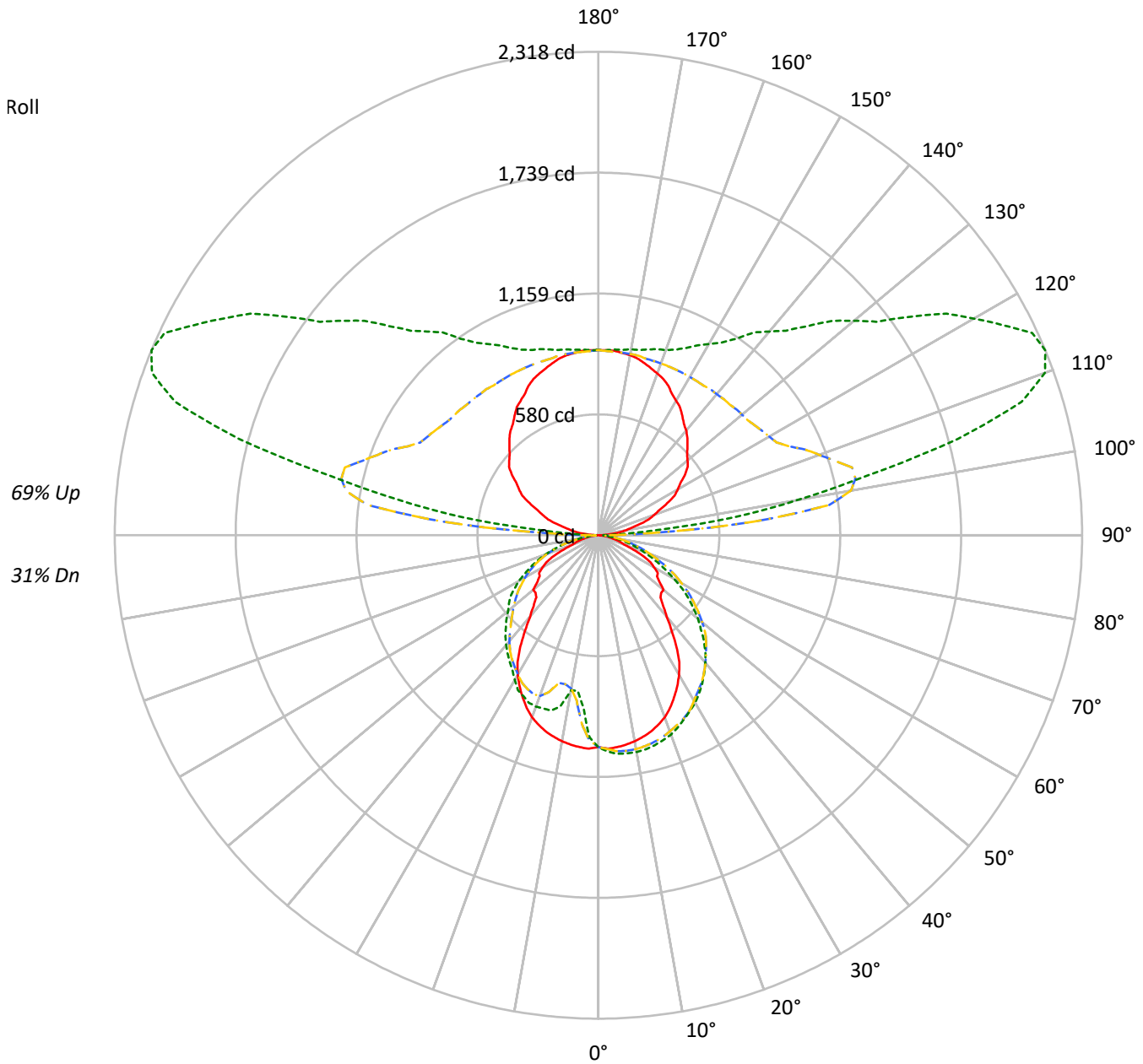
Test Method: LM-79-2019  
Report Number: P935103  
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8391.6 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 61.8  
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

TEST NUMBER: P935103  
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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				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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6282	6282	6282	6282
5°	6326	6341	6326	4986
10°	6281	6247	6281	4466
15°	6211	6111	6211	5103
20°	6079	5951	6079	5113
25°	5811	5717	5811	5005
30°	5465	5523	5465	4768
35°	4870	5277	4870	4506
40°	4055	4989	4055	4308
45°	3621	4649	3621	4081
50°	3843	4247	3843	3853
55°	3612	3811	3612	3721
60°	3719	3237	3719	3408
65°	3368	2676	3368	2992
70°	2326	2132	2326	2508
75°	2032	1576	2032	1888
80°	1624	1041	1624	1135
85°	918	552	918	470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5554 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	1.1
10°-20°	260.3	3.1
20°-30°	402.3	4.8
30°-40°	480.3	5.7
40°-50°	483.1	5.8
50°-60°	420.3	5.0
60°-70°	298.0	3.6
70°-80°	157.7	1.9
80°-90°	42.7	0.5
90°-100°	432.8	5.2
100°-110°	1137.7	13.6
110°-120°	1179.7	14.1
120°-130°	946.3	11.3
130°-140°	742.5	8.8
140°-150°	569.9	6.8
150°-160°	410.4	4.9
160°-170°	251.1	3.0
170°-180°	84.8	1.0
0°-30°	754.2	9.0
0°-40°	1234.5	14.7
0°-60°	2137.9	25.5
0°-90°	2636.3	31.4
90°-120°	2750.2	32.8
90°-150°	5008.9	59.7
90°-180°	5755.0	68.6
0°-180°	8391.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1016	1016	1016	1016	1016	
5°	1020	1052	1020	827	1020	97
15°	974	1042	974	870	974	274
25°	858	972	858	851	858	394
35°	652	868	652	741	652	404
45°	421	715	421	627	421	337
55°	343	527	343	515	343	315
65°	238	318	238	356	238	228
75°	90	151	90	181	90	95
85°	15	38	15	33	15	21
90°	6	23	6	23	6	6
95°	57	262	57	262	57	64
105°	205	1782	205	1782	205	217
115°	364	2294	364	2294	364	360
125°	506	1827	506	1827	506	450
135°	604	1418	604	1418	604	467
145°	700	1150	700	1150	700	439
155°	791	990	791	990	791	364
165°	854	922	854	922	854	241
175°	888	894	888	894	888	84
180°	888	888	888	888	888	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1024.1	1024.1	1029.9	1031.8	1031.8	1028.9	1026.1	1028.9	1037.6	1040.5	1039.5
5°	1020.2	1028.0	1038.6	1040.5	1042.4	1041.4	1039.5	1041.4	1051.0	1053.0	1053.9
7.5°	1012.6	1027.0	1040.5	1043.3	1046.2	1043.3	1042.4	1044.3	1053.9	1055.8	1055.8
10°	1002.9	1023.2	1038.6	1040.5	1043.3	1040.5	1040.5	1044.3	1053.9	1055.8	1056.8
12.5°	989.6	1017.4	1031.8	1033.7	1037.6	1036.7	1035.6	1039.5	1049.1	1051.0	1051.0
15°	974.2	1006.9	1020.2	1022.2	1028.9	1027.0	1027.0	1030.8	1041.4	1044.3	1043.3
17.5°	953.0	993.4	1008.8	1011.6	1016.4	1015.5	1016.4	1020.2	1029.9	1031.8	1032.7
20°	929.0	975.2	993.4	996.3	1001.0	1001.0	1001.0	1005.9	1015.5	1019.3	1019.3
22.5°	896.4	955.9	975.2	977.1	982.8	982.8	984.7	991.5	1000.1	1001.0	1001.0
25°	857.9	934.8	951.1	956.9	962.6	965.5	968.4	972.3	975.2	974.2	975.2
27.5°	817.6	907.8	929.0	932.8	940.6	943.4	947.3	948.2	949.2	952.0	950.1
30°	772.4	870.4	902.1	905.9	918.4	920.3	916.5	918.4	923.2	925.2	927.1
32.5°	721.5	814.7	874.2	882.9	894.5	888.6	887.7	890.5	898.3	898.3	900.2
35°	652.4	771.4	848.3	856.0	864.7	857.9	861.8	862.7	867.5	870.4	869.4
37.5°	576.4	734.0	821.4	827.1	833.9	825.2	831.0	833.9	837.7	835.8	835.8
40°	509.2	675.4	789.7	793.5	799.3	792.6	798.4	800.3	802.2	800.3	799.3
42.5°	459.3	611.0	756.1	760.8	757.0	761.8	763.8	767.6	764.8	760.8	760.8
45°	420.8	593.7	719.6	725.3	719.6	727.2	730.1	730.1	721.5	719.6	718.6
47.5°	408.3	559.2	683.1	683.1	680.2	689.8	694.6	687.9	679.2	676.3	676.3
50°	407.3	520.7	633.1	629.2	642.7	654.3	649.4	642.7	636.0	625.4	625.4
52.5°	369.9	473.6	568.7	583.1	604.3	611.0	603.4	596.6	585.0	580.3	576.4
55°	342.9	424.6	510.2	539.0	561.1	569.7	555.3	548.6	531.3	528.4	526.5
57.5°	337.2	353.5	456.3	492.9	519.7	518.8	510.2	497.7	483.2	480.4	479.4
60°	309.3	255.6	398.7	442.0	469.8	466.9	459.3	447.7	434.2	432.3	430.4
62.5°	280.5	185.5	333.4	382.4	421.7	420.8	414.1	396.8	387.2	382.4	378.6
65°	238.3	155.7	237.3	318.0	374.6	376.6	362.2	349.7	339.1	333.4	332.4
67.5°	181.5	126.8	160.4	265.2	329.6	327.6	309.3	303.6	290.1	287.3	281.5
70°	134.5	84.5	111.4	215.2	285.4	280.5	266.2	259.4	246.9	240.2	236.4
72.5°	111.4	68.2	81.7	167.1	240.2	234.5	221.9	214.2	203.7	197.9	194.1
75°	90.3	72.0	62.5	124.0	195.0	191.2	179.6	172.0	163.3	155.7	156.6
77.5°	66.3	67.2	49.9	91.3	154.7	148.9	142.2	132.6	128.7	121.1	121.1
80°	49.9	52.8	37.4	62.5	111.4	111.4	105.7	98.9	92.3	88.4	88.4
82.5°	33.6	33.6	27.9	39.3	75.9	73.1	69.1	67.2	63.4	61.5	61.5
85°	15.4	19.2	17.3	24.0	41.4	43.3	43.3	41.4	40.4	38.4	39.3
87.5°	4.8	8.7	10.6	13.5	21.1	22.1	23.0	23.0	23.0	24.0	24.0
90°	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2	22.6	22.6
92.5°	23.9	64.4	104.9	115.0	161.7	223.9	255.0	223.5	160.4	113.2	108.7
95°	57.2	131.3	205.5	224.0	397.9	629.5	745.4	665.2	504.6	384.3	370.6
97.5°	98.9	164.4	229.8	246.1	535.9	922.2	1115.4	1064.7	963.3	887.2	861.2
100°	131.1	190.4	249.7	264.5	586.1	1014.8	1229.2	1232.9	1240.4	1245.9	1215.0
102.5°	158.5	213.9	269.2	283.1	609.2	1044.0	1261.4	1326.0	1455.2	1552.2	1525.7
105°	204.9	251.8	298.7	310.5	626.3	1047.3	1257.8	1402.7	1692.4	1909.6	1895.4
107.5°	252.6	296.3	340.1	351.0	629.4	1000.6	1186.3	1388.4	1792.4	2095.6	2099.0
110°	284.8	324.2	363.8	373.6	624.7	959.4	1126.7	1352.6	1804.4	2143.2	2158.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	316.4	354.0	391.6	401.0	624.9	923.3	1072.5	1303.7	1766.1	2112.8	2135.6
115°	364.0	398.7	433.4	442.1	630.6	881.8	1007.5	1230.2	1675.7	2009.8	2041.4
117.5°	411.1	442.6	474.2	482.0	642.2	856.0	962.8	1163.9	1565.8	1867.3	1902.4
120°	438.5	468.2	497.8	505.3	651.9	847.3	945.0	1128.6	1495.9	1771.4	1805.4
122.5°	465.4	495.3	525.2	532.7	665.5	842.7	931.3	1096.7	1427.4	1675.5	1709.1
125°	506.4	533.7	561.1	567.8	684.1	839.0	916.4	1056.9	1337.9	1548.6	1579.6
127.5°	539.9	567.4	595.0	601.8	702.5	836.8	903.9	1024.5	1265.8	1446.7	1472.8
130°	557.7	587.4	617.0	624.5	716.1	838.1	899.1	1006.5	1221.3	1382.4	1406.4
132.5°	576.2	605.9	635.5	642.9	726.9	839.0	894.9	991.1	1183.3	1327.5	1349.1
135°	603.6	630.6	657.6	664.4	738.9	838.1	887.8	968.3	1129.3	1250.1	1268.7
137.5°	631.5	658.3	685.1	691.8	756.7	843.4	886.6	954.7	1090.8	1192.9	1208.1
140°	654.8	679.5	704.1	710.2	767.6	844.1	882.4	941.2	1058.8	1147.0	1161.2
142.5°	672.7	695.5	718.3	724.0	776.8	847.2	882.4	934.1	1037.3	1114.8	1127.0
145°	700.1	720.0	739.8	744.8	788.7	847.3	876.5	918.7	1003.2	1066.5	1075.8
147.5°	727.5	746.8	766.1	771.0	806.1	853.0	876.5	909.7	976.2	1026.1	1033.7
150°	745.4	762.9	780.3	784.7	815.3	856.1	876.5	904.6	960.6	1002.8	1009.0
152.5°	763.9	777.2	790.4	793.7	821.3	858.1	876.5	900.5	948.4	984.3	989.0
155°	791.3	801.1	810.8	813.3	834.4	862.5	876.5	895.6	933.7	962.3	965.4
157.5°	811.6	821.1	830.6	833.0	847.5	866.9	876.5	891.3	921.0	943.3	945.4
160°	825.2	832.7	840.1	841.9	853.5	868.9	876.5	889.2	914.6	933.7	934.9
162.5°	839.0	844.5	850.0	851.5	859.8	871.0	876.5	887.2	908.7	924.7	925.9
165°	853.9	858.8	863.9	865.1	869.0	874.0	876.5	884.1	899.5	911.1	912.3
167.5°	867.5	869.9	872.3	872.9	876.0	880.3	882.4	887.5	897.5	905.1	905.6
170°	876.5	878.9	881.3	881.8	882.0	882.3	882.4	887.5	897.5	905.1	905.1
172.5°	881.3	881.8	882.3	882.4	882.4	882.4	882.4	886.4	894.4	900.3	899.8
175°	887.8	887.8	887.8	887.8	886.0	883.6	882.4	884.9	890.0	893.8	893.8
177.5°	887.8	887.8	887.8	887.8	886.4	884.6	883.7	885.7	889.6	892.5	892.0
180°	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1041.4	1038.6	1041.4	1039.5	1040.5	1037.6	1028.9	1026.1	1028.9	1031.8	1031.8
5°	1053.9	1051.9	1053.9	1053.9	1053.0	1051.0	1041.4	1039.5	1041.4	1042.4	1040.5
7.5°	1057.8	1054.9	1057.8	1055.8	1055.8	1053.9	1044.3	1042.4	1043.3	1046.2	1043.3
10°	1057.8	1054.9	1057.8	1056.8	1055.8	1053.9	1044.3	1040.5	1040.5	1043.3	1040.5
12.5°	1053.0	1051.0	1053.0	1051.0	1051.0	1049.1	1039.5	1035.6	1036.7	1037.6	1033.7
15°	1045.2	1042.4	1045.2	1043.3	1044.3	1041.4	1030.8	1027.0	1027.0	1028.9	1022.2
17.5°	1033.7	1029.9	1033.7	1032.7	1031.8	1029.9	1020.2	1016.4	1015.5	1016.4	1011.6
20°	1020.2	1017.4	1020.2	1019.3	1019.3	1015.5	1005.9	1001.0	1001.0	1001.0	996.3
22.5°	999.1	996.3	999.1	1001.0	1001.0	1000.1	991.5	984.7	982.8	982.8	977.1
25°	975.2	972.3	975.2	975.2	974.2	975.2	972.3	968.4	965.5	962.6	956.9
27.5°	952.0	950.1	952.0	950.1	952.0	949.2	948.2	947.3	943.4	940.6	932.8
30°	929.0	927.1	929.0	927.1	925.2	923.2	918.4	916.5	920.3	918.4	905.9
32.5°	900.2	898.3	900.2	900.2	898.3	898.3	890.5	887.7	888.6	894.5	882.9
35°	870.4	867.5	870.4	869.4	870.4	867.5	862.7	861.8	857.9	864.7	856.0
37.5°	835.8	833.0	835.8	835.8	835.8	837.7	833.9	831.0	825.2	833.9	827.1
40°	800.3	796.5	800.3	799.3	800.3	802.2	800.3	798.4	792.6	799.3	793.5
42.5°	759.9	758.9	759.9	760.8	760.8	764.8	767.6	763.8	761.8	757.0	760.8
45°	716.7	714.7	716.7	718.6	719.6	721.5	730.1	730.1	727.2	719.6	725.3
47.5°	670.6	665.7	670.6	676.3	676.3	679.2	687.9	694.6	689.8	680.2	683.1
50°	621.6	622.6	621.6	625.4	625.4	636.0	642.7	649.4	654.3	642.7	629.2
52.5°	573.6	572.6	573.6	576.4	580.3	585.0	596.6	603.4	611.0	604.3	583.1
55°	525.5	527.4	525.5	526.5	528.4	531.3	548.6	555.3	569.7	561.1	539.0
57.5°	477.5	474.6	477.5	479.4	480.4	483.2	497.7	510.2	518.8	519.7	492.9
60°	421.7	417.9	421.7	430.4	432.3	434.2	447.7	459.3	466.9	469.8	442.0
62.5°	372.7	366.1	372.7	378.6	382.4	387.2	396.8	414.1	420.8	421.7	382.4
65°	320.9	318.0	320.9	332.4	333.4	339.1	349.7	362.2	376.6	374.6	318.0
67.5°	273.8	273.8	273.8	281.5	287.3	290.1	303.6	309.3	327.6	329.6	265.2
70°	230.5	229.6	230.5	236.4	240.2	246.9	259.4	266.2	280.5	285.4	215.2
72.5°	189.3	188.3	189.3	194.1	197.9	203.7	214.2	221.9	234.5	240.2	167.1
75°	152.8	150.8	152.8	156.6	155.7	163.3	172.0	179.6	191.2	195.0	124.0
77.5°	117.2	117.2	117.2	121.1	121.1	128.7	132.6	142.2	148.9	154.7	91.3
80°	87.4	86.4	87.4	88.4	88.4	92.3	98.9	105.7	111.4	111.4	62.5
82.5°	61.5	59.6	61.5	61.5	61.5	63.4	67.2	69.1	73.1	75.9	39.3
85°	38.4	38.4	38.4	39.3	38.4	40.4	41.4	43.3	43.3	41.4	24.0
87.5°	25.0	24.0	25.0	24.0	24.0	23.0	23.0	23.0	22.1	21.1	13.5
90°	22.6	22.6	22.6	22.6	22.6	30.2	40.2	45.3	39.0	26.3	16.7
92.5°	90.6	72.7	90.6	108.7	113.2	160.4	223.5	255.0	223.9	161.7	115.0
95°	316.1	261.6	316.1	370.6	384.3	504.6	665.2	745.4	629.5	397.9	224.0
97.5°	757.4	653.6	757.4	861.2	887.2	963.3	1064.7	1115.4	922.2	535.9	246.1
100°	1091.3	967.6	1091.3	1215.0	1245.9	1240.4	1232.9	1229.2	1014.8	586.1	264.5
102.5°	1419.7	1313.8	1419.7	1525.7	1552.2	1455.2	1326.0	1261.4	1044.0	609.2	283.1
105°	1838.5	1781.6	1838.5	1895.4	1909.6	1692.4	1402.7	1257.8	1047.3	626.3	310.5
107.5°	2112.8	2126.6	2112.8	2099.0	2095.6	1792.4	1388.4	1186.3	1000.6	629.4	351.0
110°	2217.4	2276.7	2217.4	2158.0	2143.2	1804.4	1352.6	1126.7	959.4	624.7	373.6





TEST NUMBER: P935103

CATALOG NUMBER: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2226.7	2317.8	2226.7	2135.6	2112.8	1766.1	1303.7	1072.5	923.3	624.9	401.0
115°	2167.7	2294.0	2167.7	2041.4	2009.8	1675.7	1230.2	1007.5	881.8	630.6	442.1
117.5°	2042.5	2182.6	2042.5	1902.4	1867.3	1565.8	1163.9	962.8	856.0	642.2	482.0
120°	1941.6	2077.7	1941.6	1805.4	1771.4	1495.9	1128.6	945.0	847.3	651.9	505.3
122.5°	1843.3	1977.6	1843.3	1709.1	1675.5	1427.4	1096.7	931.3	842.7	665.5	532.7
125°	1703.1	1826.8	1703.1	1579.6	1548.6	1337.9	1056.9	916.4	839.0	684.1	567.8
127.5°	1577.2	1681.5	1577.2	1472.8	1446.7	1265.8	1024.5	903.9	836.8	702.5	601.8
130°	1502.9	1599.2	1502.9	1406.4	1382.4	1221.3	1006.5	899.1	838.1	716.1	624.5
132.5°	1435.5	1521.8	1435.5	1349.1	1327.5	1183.3	991.1	894.9	839.0	726.9	642.9
135°	1343.1	1417.5	1343.1	1268.7	1250.1	1129.3	968.3	887.8	838.1	738.9	664.4
137.5°	1269.0	1329.9	1269.0	1208.1	1192.9	1090.8	954.7	886.6	843.4	756.7	691.8
140°	1218.2	1275.1	1218.2	1161.2	1147.0	1058.8	941.2	882.4	844.1	767.6	710.2
142.5°	1176.1	1225.1	1176.1	1127.0	1114.8	1037.3	934.1	882.4	847.2	776.8	724.0
145°	1113.0	1150.0	1113.0	1075.8	1066.5	1003.2	918.7	876.5	847.3	788.7	744.8
147.5°	1064.4	1095.2	1064.4	1033.7	1026.1	976.2	909.7	876.5	853.0	806.1	771.0
150°	1033.9	1058.8	1033.9	1009.0	1002.8	960.6	904.6	876.5	856.1	815.3	784.7
152.5°	1007.8	1026.6	1007.8	989.0	984.3	948.4	900.5	876.5	858.1	821.3	793.7
155°	977.8	990.2	977.8	965.4	962.3	933.7	895.6	876.5	862.5	834.4	813.3
157.5°	954.1	962.8	954.1	945.4	943.3	921.0	891.3	876.5	866.9	847.5	833.0
160°	940.0	945.0	940.0	934.9	933.7	914.6	889.2	876.5	868.9	853.5	841.9
162.5°	930.6	935.4	930.6	925.9	924.7	908.7	887.2	876.5	871.0	859.8	851.5
165°	917.4	922.3	917.4	912.3	911.1	899.5	884.1	876.5	874.0	869.0	865.1
167.5°	907.7	909.8	907.7	905.6	905.1	897.5	887.5	882.4	880.3	876.0	872.9
170°	905.1	905.1	905.1	905.1	905.1	897.5	887.5	882.4	882.3	882.0	881.8
172.5°	898.0	896.2	898.0	899.8	900.3	894.4	886.4	882.4	882.4	882.4	882.4
175°	893.8	893.8	893.8	893.8	893.8	890.0	884.9	882.4	883.6	886.0	887.8
177.5°	889.9	887.8	889.9	892.0	892.5	889.6	885.7	883.7	884.6	886.4	887.8
180°	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8



TEST NUMBER: P935103

CATALOG NUMBER: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1029.9	1024.1	1024.1	1014.5	1010.7	1007.8	1002.9	988.6	984.7	980.9	986.6
5°	1038.6	1028.0	1020.2	1002.9	988.6	982.8	964.6	930.0	906.9	889.6	880.0
7.5°	1040.5	1027.0	1012.6	985.7	951.1	935.7	880.0	816.6	799.3	784.0	774.3
10°	1038.6	1023.2	1002.9	962.6	881.0	854.1	798.4	757.0	746.4	743.6	746.4
12.5°	1031.8	1017.4	989.6	922.2	807.9	789.7	757.0	733.1	731.1	735.9	761.8
15°	1020.2	1006.9	974.2	868.5	767.6	754.2	731.1	722.5	733.1	766.7	844.5
17.5°	1008.8	993.4	953.0	815.7	736.9	727.2	710.9	728.2	787.8	833.0	858.8
20°	993.4	975.2	929.0	777.2	714.7	706.1	698.4	776.2	821.4	837.7	852.1
22.5°	975.2	955.9	896.4	750.3	691.7	685.0	689.8	803.2	821.4	833.0	845.5
25°	951.1	934.8	857.9	729.1	673.5	665.7	684.1	800.3	810.8	813.8	838.7
27.5°	929.0	907.8	817.6	709.9	651.4	648.4	688.8	787.8	795.5	798.4	825.2
30°	902.1	870.4	772.4	689.8	628.3	627.3	689.8	772.4	770.5	778.1	805.1
32.5°	874.2	814.7	721.5	664.8	606.2	605.3	683.1	749.4	747.5	758.0	778.1
35°	848.3	771.4	652.4	636.0	578.3	579.3	666.7	722.5	723.4	733.1	745.5
37.5°	821.4	734.0	576.4	604.3	551.4	551.4	644.6	697.4	695.5	698.4	715.8
40°	789.7	675.4	509.2	563.0	526.5	523.6	617.7	670.6	663.8	662.9	686.9
42.5°	756.1	611.0	459.3	508.3	497.7	493.8	585.0	637.9	625.4	628.3	659.0
45°	719.6	593.7	420.8	429.5	467.9	465.0	549.5	600.4	591.8	599.5	631.2
47.5°	683.1	559.2	408.3	356.4	436.1	435.2	510.2	563.9	559.2	566.8	600.4
50°	633.1	520.7	407.3	305.5	400.6	404.4	463.1	528.4	528.4	535.1	570.7
52.5°	568.7	473.6	369.9	276.7	359.3	370.8	421.7	497.7	499.6	506.3	538.0
55°	510.2	424.6	342.9	254.6	310.3	335.3	381.4	465.9	469.8	476.5	505.3
57.5°	456.3	353.5	337.2	228.6	265.2	289.2	345.9	435.2	437.1	442.9	470.7
60°	398.7	255.6	309.3	200.7	225.8	244.0	313.1	398.7	405.4	409.2	433.3
62.5°	333.4	185.5	280.5	181.5	206.6	210.4	286.3	364.1	372.7	375.6	390.0
65°	237.3	155.7	238.3	165.2	186.4	187.4	257.5	328.5	336.3	341.0	351.6
67.5°	160.4	126.8	181.5	149.8	171.0	172.0	229.6	287.3	297.9	301.7	308.4
70°	111.4	84.5	134.5	133.5	153.8	155.7	199.8	249.8	259.4	262.2	266.2
72.5°	81.7	68.2	111.4	120.0	135.4	137.4	169.1	207.5	217.2	220.0	221.9
75°	62.5	72.0	90.3	104.8	115.3	116.2	138.4	169.1	175.8	177.7	178.7
77.5°	49.9	67.2	66.3	84.5	94.2	92.3	108.6	130.6	136.4	136.4	136.4
80°	37.4	52.8	49.9	60.5	69.1	67.2	77.8	93.2	95.1	97.0	96.1
82.5°	27.9	33.6	33.6	38.4	46.1	44.2	51.9	60.5	60.5	60.5	62.5
85°	17.3	19.2	15.4	20.2	26.0	25.0	28.8	32.7	33.6	33.6	31.7
87.5°	10.6	8.7	4.8	7.6	11.6	11.6	13.5	14.4	13.5	13.5	13.5
90°	15.5	10.7	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2
92.5°	104.9	64.4	23.9	64.4	104.9	115.0	161.7	223.9	255.0	223.5	160.4
95°	205.5	131.3	57.2	131.3	205.5	224.0	397.9	629.5	745.4	665.2	504.6
97.5°	229.8	164.4	98.9	164.4	229.8	246.1	535.9	922.2	1115.4	1064.7	963.3
100°	249.7	190.4	131.1	190.4	249.7	264.5	586.1	1014.8	1229.2	1232.9	1240.4
102.5°	269.2	213.9	158.5	213.9	269.2	283.1	609.2	1044.0	1261.4	1326.0	1455.2
105°	298.7	251.8	204.9	251.8	298.7	310.5	626.3	1047.3	1257.8	1402.7	1692.4
107.5°	340.1	296.3	252.6	296.3	340.1	351.0	629.4	1000.6	1186.3	1388.4	1792.4
110°	363.8	324.2	284.8	324.2	363.8	373.6	624.7	959.4	1126.7	1352.6	1804.4



TEST NUMBER: P935103

CATALOG NUMBER: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	391.6	354.0	316.4	354.0	391.6	401.0	624.9	923.3	1072.5	1303.7	1766.1
115°	433.4	398.7	364.0	398.7	433.4	442.1	630.6	881.8	1007.5	1230.2	1675.7
117.5°	474.2	442.6	411.1	442.6	474.2	482.0	642.2	856.0	962.8	1163.9	1565.8
120°	497.8	468.2	438.5	468.2	497.8	505.3	651.9	847.3	945.0	1128.6	1495.9
122.5°	525.2	495.3	465.4	495.3	525.2	532.7	665.5	842.7	931.3	1096.7	1427.4
125°	561.1	533.7	506.4	533.7	561.1	567.8	684.1	839.0	916.4	1056.9	1337.9
127.5°	595.0	567.4	539.9	567.4	595.0	601.8	702.5	836.8	903.9	1024.5	1265.8
130°	617.0	587.4	557.7	587.4	617.0	624.5	716.1	838.1	899.1	1006.5	1221.3
132.5°	635.5	605.9	576.2	605.9	635.5	642.9	726.9	839.0	894.9	991.1	1183.3
135°	657.6	630.6	603.6	630.6	657.6	664.4	738.9	838.1	887.8	968.3	1129.3
137.5°	685.1	658.3	631.5	658.3	685.1	691.8	756.7	843.4	886.6	954.7	1090.8
140°	704.1	679.5	654.8	679.5	704.1	710.2	767.6	844.1	882.4	941.2	1058.8
142.5°	718.3	695.5	672.7	695.5	718.3	724.0	776.8	847.2	882.4	934.1	1037.3
145°	739.8	720.0	700.1	720.0	739.8	744.8	788.7	847.3	876.5	918.7	1003.2
147.5°	766.1	746.8	727.5	746.8	766.1	771.0	806.1	853.0	876.5	909.7	976.2
150°	780.3	762.9	745.4	762.9	780.3	784.7	815.3	856.1	876.5	904.6	960.6
152.5°	790.4	777.2	763.9	777.2	790.4	793.7	821.3	858.1	876.5	900.5	948.4
155°	810.8	801.1	791.3	801.1	810.8	813.3	834.4	862.5	876.5	895.6	933.7
157.5°	830.6	821.1	811.6	821.1	830.6	833.0	847.5	866.9	876.5	891.3	921.0
160°	840.1	832.7	825.2	832.7	840.1	841.9	853.5	868.9	876.5	889.2	914.6
162.5°	850.0	844.5	839.0	844.5	850.0	851.5	859.8	871.0	876.5	887.2	908.7
165°	863.9	858.8	853.9	858.8	863.9	865.1	869.0	874.0	876.5	884.1	899.5
167.5°	872.3	869.9	867.5	869.9	872.3	872.9	876.0	880.3	882.4	887.5	897.5
170°	881.3	878.9	876.5	878.9	881.3	881.8	882.0	882.3	882.4	887.5	897.5
172.5°	882.3	881.8	881.3	881.8	882.3	882.4	882.4	882.4	882.4	886.4	894.4
175°	887.8	887.8	887.8	887.8	887.8	887.8	886.0	883.6	882.4	884.9	890.0
177.5°	887.8	887.8	887.8	887.8	887.8	887.8	886.4	884.6	883.7	885.7	889.6
180°	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8



TEST NUMBER: P935103  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	979.9	977.1	980.9	970.3	980.9	977.1	979.9	986.6	980.9	984.7	988.6
5°	859.9	855.0	839.6	827.1	839.6	855.0	859.9	880.0	889.6	906.9	930.0
7.5°	768.6	764.8	760.8	753.2	760.8	764.8	768.6	774.3	784.0	799.3	816.6
10°	748.4	749.4	755.1	754.2	755.1	749.4	748.4	746.4	743.6	746.4	757.0
12.5°	800.3	808.9	840.6	838.7	840.6	808.9	800.3	761.8	735.9	731.1	733.1
15°	859.9	862.7	869.4	870.4	869.4	862.7	859.9	844.5	766.7	733.1	722.5
17.5°	865.6	866.6	871.3	871.3	871.3	866.6	865.6	858.8	833.0	787.8	728.2
20°	860.8	862.7	872.3	874.2	872.3	862.7	860.8	852.1	837.7	821.4	776.2
22.5°	858.8	862.7	870.4	869.4	870.4	862.7	858.8	845.5	833.0	821.4	803.2
25°	849.3	849.3	850.2	851.2	850.2	849.3	849.3	838.7	813.8	810.8	800.3
27.5°	829.1	831.0	836.8	835.8	836.8	831.0	829.1	825.2	798.4	795.5	787.8
30°	810.8	808.9	804.1	800.3	804.1	808.9	810.8	805.1	778.1	770.5	772.4
32.5°	780.1	775.3	770.5	767.6	770.5	775.3	780.1	778.1	758.0	747.5	749.4
35°	743.6	744.5	743.6	740.7	743.6	744.5	743.6	745.5	733.1	723.4	722.5
37.5°	717.7	719.6	718.6	714.7	718.6	719.6	717.7	715.8	698.4	695.5	697.4
40°	690.8	691.7	690.8	687.9	690.8	691.7	690.8	686.9	662.9	663.8	670.6
42.5°	664.8	663.8	661.0	659.0	661.0	663.8	664.8	659.0	628.3	625.4	637.9
45°	635.1	636.0	630.2	627.3	630.2	636.0	635.1	631.2	599.5	591.8	600.4
47.5°	605.3	605.3	600.4	597.5	600.4	605.3	605.3	600.4	566.8	559.2	563.9
50°	573.6	572.6	565.8	564.9	565.8	572.6	573.6	570.7	535.1	528.4	528.4
52.5°	537.0	537.0	538.0	540.0	538.0	537.0	537.0	538.0	506.3	499.6	497.7
55°	505.3	506.3	513.0	514.9	513.0	506.3	505.3	505.3	476.5	469.8	465.9
57.5°	472.6	472.6	477.5	477.5	477.5	472.6	472.6	470.7	442.9	437.1	435.2
60°	435.2	437.1	440.9	440.0	440.9	437.1	435.2	433.3	409.2	405.4	398.7
62.5°	395.8	397.8	398.7	396.8	398.7	397.8	395.8	390.0	375.6	372.7	364.1
65°	354.5	356.4	357.4	355.5	357.4	356.4	354.5	351.6	341.0	336.3	328.5
67.5°	312.2	311.2	310.3	314.2	310.3	311.2	312.2	308.4	301.7	297.9	287.3
70°	269.0	269.0	268.1	270.0	268.1	269.0	269.0	266.2	262.2	259.4	249.8
72.5°	222.9	221.9	225.8	222.9	225.8	221.9	222.9	221.9	220.0	217.2	207.5
75°	177.7	179.6	177.7	180.6	177.7	179.6	177.7	178.7	177.7	175.8	169.1
77.5°	135.4	137.4	135.4	135.4	135.4	137.4	135.4	136.4	136.4	136.4	130.6
80°	96.1	95.1	95.1	94.2	95.1	95.1	96.1	96.1	97.0	95.1	93.2
82.5°	61.5	60.5	60.5	62.5	60.5	60.5	61.5	62.5	60.5	60.5	60.5
85°	33.6	34.6	32.7	32.7	32.7	34.6	33.6	31.7	33.6	33.6	32.7
87.5°	12.5	11.6	11.6	11.6	11.6	11.6	12.5	13.5	13.5	13.5	14.4
90°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	30.2	40.2	45.3	39.0
92.5°	113.2	108.7	90.6	72.7	90.6	108.7	113.2	160.4	223.5	255.0	223.9
95°	384.3	370.6	316.1	261.6	316.1	370.6	384.3	504.6	665.2	745.4	629.5
97.5°	887.2	861.2	757.4	653.6	757.4	861.2	887.2	963.3	1064.7	1115.4	922.2
100°	1245.9	1215.0	1091.3	967.6	1091.3	1215.0	1245.9	1240.4	1232.9	1229.2	1014.8
102.5°	1552.2	1525.7	1419.7	1313.8	1419.7	1525.7	1552.2	1455.2	1326.0	1261.4	1044.0
105°	1909.6	1895.4	1838.5	1781.6	1838.5	1895.4	1909.6	1692.4	1402.7	1257.8	1047.3
107.5°	2095.6	2099.0	2112.8	2126.6	2112.8	2099.0	2095.6	1792.4	1388.4	1186.3	1000.6
110°	2143.2	2158.0	2217.4	2276.7	2217.4	2158.0	2143.2	1804.4	1352.6	1126.7	959.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2112.8	2135.6	2226.7	2317.8	2226.7	2135.6	2112.8	1766.1	1303.7	1072.5	923.3
115°	2009.8	2041.4	2167.7	2294.0	2167.7	2041.4	2009.8	1675.7	1230.2	1007.5	881.8
117.5°	1867.3	1902.4	2042.5	2182.6	2042.5	1902.4	1867.3	1565.8	1163.9	962.8	856.0
120°	1771.4	1805.4	1941.6	2077.7	1941.6	1805.4	1771.4	1495.9	1128.6	945.0	847.3
122.5°	1675.5	1709.1	1843.3	1977.6	1843.3	1709.1	1675.5	1427.4	1096.7	931.3	842.7
125°	1548.6	1579.6	1703.1	1826.8	1703.1	1579.6	1548.6	1337.9	1056.9	916.4	839.0
127.5°	1446.7	1472.8	1577.2	1681.5	1577.2	1472.8	1446.7	1265.8	1024.5	903.9	836.8
130°	1382.4	1406.4	1502.9	1599.2	1502.9	1406.4	1382.4	1221.3	1006.5	899.1	838.1
132.5°	1327.5	1349.1	1435.5	1521.8	1435.5	1349.1	1327.5	1183.3	991.1	894.9	839.0
135°	1250.1	1268.7	1343.1	1417.5	1343.1	1268.7	1250.1	1129.3	968.3	887.8	838.1
137.5°	1192.9	1208.1	1269.0	1329.9	1269.0	1208.1	1192.9	1090.8	954.7	886.6	843.4
140°	1147.0	1161.2	1218.2	1275.1	1218.2	1161.2	1147.0	1058.8	941.2	882.4	844.1
142.5°	1114.8	1127.0	1176.1	1225.1	1176.1	1127.0	1114.8	1037.3	934.1	882.4	847.2
145°	1066.5	1075.8	1113.0	1150.0	1113.0	1075.8	1066.5	1003.2	918.7	876.5	847.3
147.5°	1026.1	1033.7	1064.4	1095.2	1064.4	1033.7	1026.1	976.2	909.7	876.5	853.0
150°	1002.8	1009.0	1033.9	1058.8	1033.9	1009.0	1002.8	960.6	904.6	876.5	856.1
152.5°	984.3	989.0	1007.8	1026.6	1007.8	989.0	984.3	948.4	900.5	876.5	858.1
155°	962.3	965.4	977.8	990.2	977.8	965.4	962.3	933.7	895.6	876.5	862.5
157.5°	943.3	945.4	954.1	962.8	954.1	945.4	943.3	921.0	891.3	876.5	866.9
160°	933.7	934.9	940.0	945.0	940.0	934.9	933.7	914.6	889.2	876.5	868.9
162.5°	924.7	925.9	930.6	935.4	930.6	925.9	924.7	908.7	887.2	876.5	871.0
165°	911.1	912.3	917.4	922.3	917.4	912.3	911.1	899.5	884.1	876.5	874.0
167.5°	905.1	905.6	907.7	909.8	907.7	905.6	905.1	897.5	887.5	882.4	880.3
170°	905.1	905.1	905.1	905.1	905.1	905.1	905.1	897.5	887.5	882.4	882.3
172.5°	900.3	899.8	898.0	896.2	898.0	899.8	900.3	894.4	886.4	882.4	882.4
175°	893.8	893.8	893.8	893.8	893.8	893.8	893.8	890.0	884.9	882.4	883.6
177.5°	892.5	892.0	889.9	887.8	889.9	892.0	892.5	889.6	885.7	883.7	884.6
180°	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8	887.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1002.9	1007.8	1010.7	1014.5	1024.1
5°	964.6	982.8	988.6	1002.9	1020.2
7.5°	880.0	935.7	951.1	985.7	1012.6
10°	798.4	854.1	881.0	962.6	1002.9
12.5°	757.0	789.7	807.9	922.2	989.6
15°	731.1	754.2	767.6	868.5	974.2
17.5°	710.9	727.2	736.9	815.7	953.0
20°	698.4	706.1	714.7	777.2	929.0
22.5°	689.8	685.0	691.7	750.3	896.4
25°	684.1	665.7	673.5	729.1	857.9
27.5°	688.8	648.4	651.4	709.9	817.6
30°	689.8	627.3	628.3	689.8	772.4
32.5°	683.1	605.3	606.2	664.8	721.5
35°	666.7	579.3	578.3	636.0	652.4
37.5°	644.6	551.4	551.4	604.3	576.4
40°	617.7	523.6	526.5	563.0	509.2
42.5°	585.0	493.8	497.7	508.3	459.3
45°	549.5	465.0	467.9	429.5	420.8
47.5°	510.2	435.2	436.1	356.4	408.3
50°	463.1	404.4	400.6	305.5	407.3
52.5°	421.7	370.8	359.3	276.7	369.9
55°	381.4	335.3	310.3	254.6	342.9
57.5°	345.9	289.2	265.2	228.6	337.2
60°	313.1	244.0	225.8	200.7	309.3
62.5°	286.3	210.4	206.6	181.5	280.5
65°	257.5	187.4	186.4	165.2	238.3
67.5°	229.6	172.0	171.0	149.8	181.5
70°	199.8	155.7	153.8	133.5	134.5
72.5°	169.1	137.4	135.4	120.0	111.4
75°	138.4	116.2	115.3	104.8	90.3
77.5°	108.6	92.3	94.2	84.5	66.3
80°	77.8	67.2	69.1	60.5	49.9
82.5°	51.9	44.2	46.1	38.4	33.6
85°	28.8	25.0	26.0	20.2	15.4
87.5°	13.5	11.6	11.6	7.6	4.8
90°	26.3	16.7	15.5	10.7	5.9
92.5°	161.7	115.0	104.9	64.4	23.9
95°	397.9	224.0	205.5	131.3	57.2
97.5°	535.9	246.1	229.8	164.4	98.9
100°	586.1	264.5	249.7	190.4	131.1
102.5°	609.2	283.1	269.2	213.9	158.5
105°	626.3	310.5	298.7	251.8	204.9
107.5°	629.4	351.0	340.1	296.3	252.6
110°	624.7	373.6	363.8	324.2	284.8



TEST NUMBER: P935103

CATALOG NUMBER: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	624.9	401.0	391.6	354.0	316.4
115°	630.6	442.1	433.4	398.7	364.0
117.5°	642.2	482.0	474.2	442.6	411.1
120°	651.9	505.3	497.8	468.2	438.5
122.5°	665.5	532.7	525.2	495.3	465.4
125°	684.1	567.8	561.1	533.7	506.4
127.5°	702.5	601.8	595.0	567.4	539.9
130°	716.1	624.5	617.0	587.4	557.7
132.5°	726.9	642.9	635.5	605.9	576.2
135°	738.9	664.4	657.6	630.6	603.6
137.5°	756.7	691.8	685.1	658.3	631.5
140°	767.6	710.2	704.1	679.5	654.8
142.5°	776.8	724.0	718.3	695.5	672.7
145°	788.7	744.8	739.8	720.0	700.1
147.5°	806.1	771.0	766.1	746.8	727.5
150°	815.3	784.7	780.3	762.9	745.4
152.5°	821.3	793.7	790.4	777.2	763.9
155°	834.4	813.3	810.8	801.1	791.3
157.5°	847.5	833.0	830.6	821.1	811.6
160°	853.5	841.9	840.1	832.7	825.2
162.5°	859.8	851.5	850.0	844.5	839.0
165°	869.0	865.1	863.9	858.8	853.9
167.5°	876.0	872.9	872.3	869.9	867.5
170°	882.0	881.8	881.3	878.9	876.5
172.5°	882.4	882.4	882.3	881.8	881.3
175°	886.0	887.8	887.8	887.8	887.8
177.5°	886.4	887.8	887.8	887.8	887.8
180°	887.8	887.8	887.8	887.8	887.8



TEST NUMBER: P935103  
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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	9.16	9.88	10.27	10.98	12.49	11.99	12.70	13.09	13.80	15.32
	3H	9.63	10.27	10.74	11.38	12.91	13.32	13.96	14.43	15.07	16.60
	4H	9.81	10.42	10.93	11.53	13.07	13.76	14.36	14.88	15.47	17.01
	6H	9.92	10.48	11.05	11.59	13.14	14.03	14.59	15.16	15.70	17.25
	8H	9.92	10.45	11.05	11.58	13.12	14.10	14.63	15.23	15.76	17.30
	12H	9.89	10.39	11.02	11.51	13.08	14.13	14.64	15.27	15.76	17.32
4H	2H	10.18	10.78	11.30	11.89	13.43	12.38	12.99	13.51	14.10	15.63
	3H	11.19	11.70	12.32	12.83	14.38	13.87	14.38	15.00	15.51	17.06
	4H	11.46	11.93	12.60	13.05	14.62	14.39	14.86	15.53	15.98	17.55
	6H	11.58	11.98	12.72	13.12	14.68	14.75	15.14	15.89	16.29	17.85
	8H	11.58	11.95	12.72	13.09	14.67	14.85	15.22	15.99	16.36	17.94
	12H	11.54	11.88	12.70	13.03	14.61	14.90	15.23	16.06	16.38	17.97
8H	4H	11.90	12.27	13.04	13.41	14.99	14.50	14.88	15.65	16.01	17.59
	6H	12.16	12.46	13.32	13.64	15.22	14.93	15.24	16.10	16.42	17.99
	8H	12.20	12.47	13.37	13.62	15.22	15.08	15.35	16.25	16.51	18.10
	12H	12.17	12.41	13.35	13.57	15.19	15.17	15.41	16.35	16.56	18.19
12H	4H	11.90	12.24	13.06	13.39	14.97	14.46	14.80	15.62	15.95	17.53
	6H	12.22	12.48	13.38	13.64	15.24	14.93	15.20	16.10	16.36	17.95
	8H	12.27	12.51	13.45	13.67	15.29	15.08	15.32	16.25	16.47	18.10