

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: P935011

Luminaire Tested: SQ4-FA-100U-050D-830-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935011
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-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

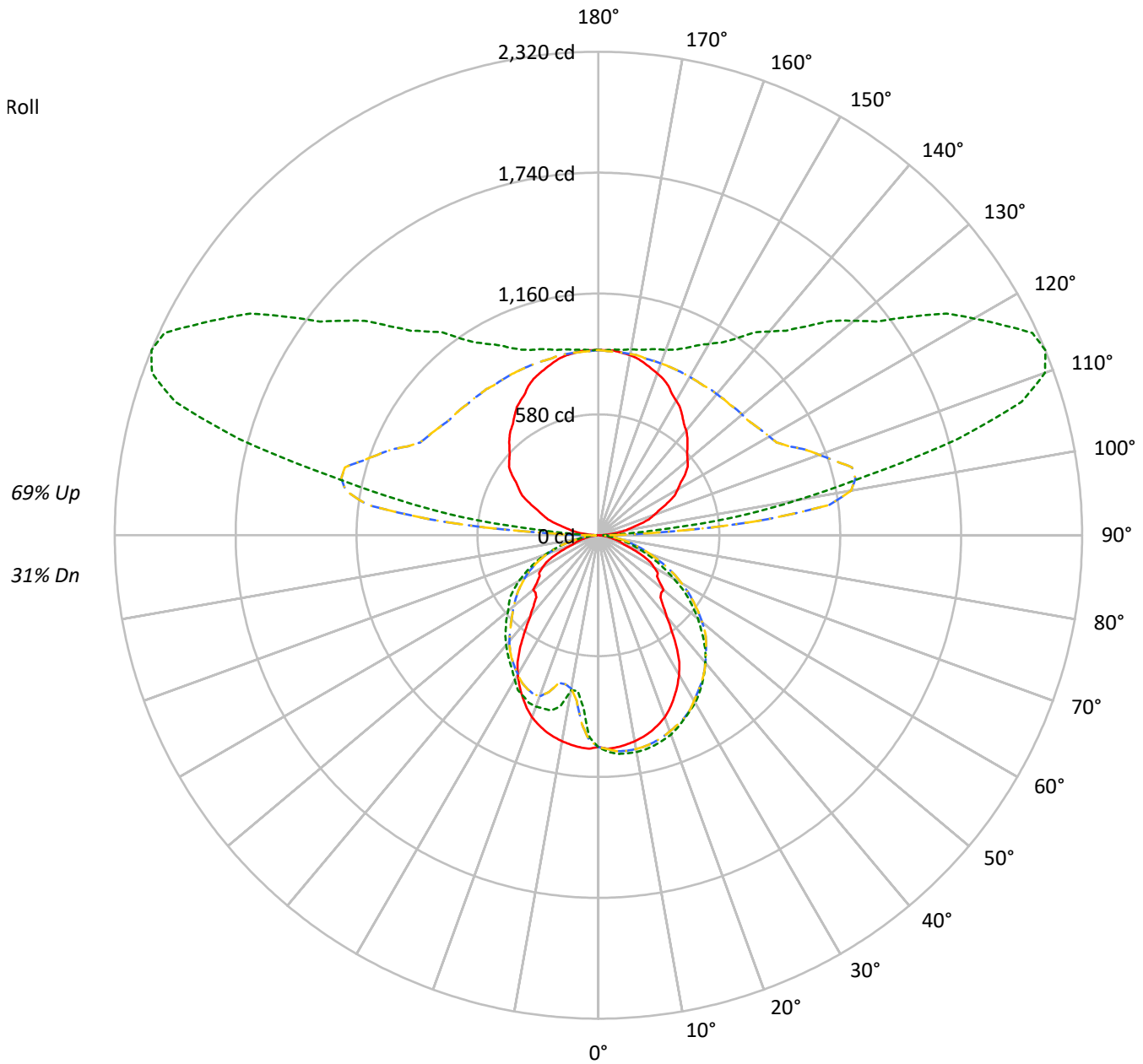
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8400.4 lumens
Efficiency: N/A
Efficacy: 135.9 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: P935011
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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°	6288	6288	6288	6288
5°	6333	6347	6333	4991
10°	6288	6253	6288	4471
15°	6218	6118	6218	5108
20°	6085	5957	6085	5119
25°	5817	5723	5817	5010
30°	5470	5529	5470	4772
35°	4875	5283	4875	4511
40°	4059	4994	4059	4313
45°	3624	4655	3624	4085
50°	3847	4251	3847	3857
55°	3616	3816	3616	3725
60°	3723	3240	3723	3411
65°	3371	2678	3371	2994
70°	2328	2134	2328	2510
75°	2034	1578	2034	1890
80°	1627	1043	1627	1137
85°	918	552	918	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5559 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.1
10°-20°	260.5	3.1
20°-30°	402.7	4.8
30°-40°	480.8	5.7
40°-50°	483.6	5.8
50°-60°	420.8	5.0
60°-70°	298.3	3.6
70°-80°	157.8	1.9
80°-90°	42.7	0.5
90°-100°	433.2	5.2
100°-110°	1138.9	13.6
110°-120°	1180.9	14.1
120°-130°	947.3	11.3
130°-140°	743.3	8.8
140°-150°	570.5	6.8
150°-160°	410.8	4.9
160°-170°	251.4	3.0
170°-180°	84.9	1.0
0°-30°	755.0	9.0
0°-40°	1235.8	14.7
0°-60°	2140.2	25.5
0°-90°	2639.1	31.4
90°-120°	2753.1	32.8
90°-150°	5014.1	59.7
90°-180°	5761.0	68.6
0°-180°	8400.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1016	1016	1016	1016	1016	
5°	1021	1053	1021	828	1021	97
15°	975	1044	975	871	975	274
25°	859	973	859	852	859	394
35°	653	868	653	742	653	404
45°	421	716	421	628	421	337
55°	343	528	343	516	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	1783	205	1783	205	218
115°	364	2296	364	2296	364	360
125°	507	1829	507	1829	507	450
135°	604	1419	604	1419	604	467
145°	701	1151	701	1151	701	439
155°	792	991	792	991	792	364
165°	855	923	855	923	855	241
175°	889	895	889	895	889	84
180°	889	889	889	889	889	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1025.2	1025.2	1031.0	1032.9	1032.9	1030.0	1027.1	1030.0	1038.7	1041.6	1040.6
5°	1021.3	1029.0	1039.6	1041.6	1043.5	1042.5	1040.6	1042.5	1052.1	1054.1	1055.0
7.5°	1013.6	1028.1	1041.6	1044.4	1047.3	1044.4	1043.5	1045.4	1055.0	1057.0	1057.0
10°	1004.0	1024.3	1039.6	1041.6	1044.4	1041.6	1041.6	1045.4	1055.0	1057.0	1057.9
12.5°	990.6	1018.4	1032.9	1034.8	1038.7	1037.7	1036.7	1040.6	1050.2	1052.1	1052.1
15°	975.2	1007.9	1021.3	1023.3	1030.0	1028.1	1028.1	1031.9	1042.5	1045.4	1044.4
17.5°	954.0	994.4	1009.8	1012.7	1017.5	1016.5	1017.5	1021.3	1031.0	1032.9	1033.8
20°	930.0	976.2	994.4	997.3	1002.1	1002.1	1002.1	1007.0	1016.5	1020.3	1020.3
22.5°	897.3	956.9	976.2	978.1	983.8	983.8	985.7	992.5	1001.1	1002.1	1002.1
25°	858.8	935.7	952.1	957.9	963.6	966.5	969.4	973.3	976.2	975.2	976.2
27.5°	818.4	908.8	930.0	933.8	941.6	944.4	948.3	949.2	950.2	953.0	951.1
30°	773.2	871.3	903.0	906.9	919.4	921.3	917.5	919.4	924.2	926.2	928.1
32.5°	722.3	815.6	875.1	883.8	895.4	889.6	888.6	891.5	899.2	899.2	901.1
35°	653.0	772.3	849.2	856.9	865.6	858.8	862.7	863.7	868.4	871.3	870.3
37.5°	577.0	734.8	822.3	828.0	834.8	826.1	831.9	834.8	838.6	836.7	836.7
40°	509.7	676.1	790.5	794.3	800.2	793.4	799.2	801.1	803.0	801.1	800.2
42.5°	459.7	611.6	756.9	761.6	757.8	762.6	764.6	768.4	765.6	761.6	761.6
45°	421.2	594.3	720.3	726.1	720.3	728.0	730.9	730.9	722.3	720.3	719.4
47.5°	408.7	559.7	683.8	683.8	680.9	690.5	695.3	688.6	679.9	677.0	677.0
50°	407.7	521.2	633.7	629.9	643.4	655.0	650.1	643.4	636.7	626.1	626.1
52.5°	370.3	474.1	569.3	583.7	605.0	611.6	604.0	597.2	585.6	580.9	577.0
55°	343.3	425.0	510.7	539.6	561.6	570.3	555.9	549.1	531.8	529.0	527.0
57.5°	337.6	353.9	456.8	493.4	520.3	519.3	510.7	498.2	483.7	480.9	479.9
60°	309.6	255.8	399.1	442.4	470.3	467.4	459.7	448.2	434.7	432.8	430.9
62.5°	280.8	185.7	333.7	382.8	422.2	421.2	414.5	397.2	387.6	382.8	379.0
65°	238.5	155.8	237.6	318.3	375.0	377.0	362.6	350.1	339.5	333.7	332.8
67.5°	181.7	127.0	160.6	265.5	329.9	327.9	309.6	303.9	290.4	287.6	281.8
70°	134.6	84.6	111.6	215.4	285.7	280.8	266.4	259.6	247.1	240.4	236.6
72.5°	111.6	68.3	81.7	167.3	240.4	234.7	222.2	214.4	203.9	198.1	194.3
75°	90.4	72.1	62.5	124.1	195.2	191.4	179.8	172.2	163.5	155.8	156.8
77.5°	66.3	67.3	50.0	91.4	154.9	149.0	142.3	132.7	128.9	121.2	121.2
80°	50.0	52.9	37.5	62.5	111.6	111.6	105.8	99.0	92.3	88.5	88.5
82.5°	33.7	33.7	27.9	39.4	76.0	73.1	69.2	67.3	63.5	61.6	61.6
85°	15.4	19.2	17.3	24.0	41.4	43.3	43.3	41.4	40.4	38.4	39.4
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	22.7	22.7
92.5°	23.9	64.4	105.0	115.1	161.9	224.1	255.3	223.7	160.6	113.3	108.8
95°	57.3	131.4	205.7	224.3	398.3	630.2	746.2	665.9	505.2	384.7	371.0
97.5°	99.0	164.5	230.0	246.4	536.4	923.2	1116.6	1065.8	964.3	888.1	862.1
100°	131.3	190.6	250.0	264.8	586.7	1015.8	1230.5	1234.2	1241.7	1247.2	1216.2
102.5°	158.7	214.1	269.5	283.4	609.8	1045.1	1262.7	1327.4	1456.8	1553.8	1527.3
105°	205.2	252.1	299.0	310.8	626.9	1048.4	1259.1	1404.2	1694.1	1911.6	1897.4
107.5°	252.9	296.6	340.4	351.3	630.1	1001.7	1187.5	1389.8	1794.3	2097.8	2101.2
110°	285.1	324.6	364.1	374.0	625.3	960.4	1127.9	1354.0	1806.3	2145.5	2160.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	316.7	354.4	392.1	401.4	625.5	924.3	1073.6	1305.0	1767.9	2115.1	2137.8
115°	364.4	399.1	433.8	442.5	631.2	882.8	1008.6	1231.5	1677.5	2011.9	2043.5
117.5°	411.6	443.1	474.7	482.5	642.9	856.9	963.8	1165.1	1567.5	1869.3	1904.4
120°	439.0	468.7	498.4	505.8	652.6	848.2	946.0	1129.8	1497.5	1773.3	1807.3
122.5°	465.9	495.8	525.8	533.3	666.2	843.6	932.3	1097.9	1428.9	1677.2	1710.9
125°	507.0	534.3	561.6	568.4	684.8	839.8	917.4	1058.0	1339.3	1550.2	1581.2
127.5°	540.4	568.0	595.6	602.5	703.2	837.6	904.9	1025.6	1267.1	1448.2	1474.3
130°	558.3	588.0	617.7	625.1	716.8	839.0	900.1	1007.5	1222.5	1383.8	1407.9
132.5°	576.8	606.5	636.1	643.6	727.7	839.8	895.9	992.1	1184.6	1328.9	1350.5
135°	604.2	631.2	658.3	665.1	739.7	839.0	888.7	969.3	1130.5	1251.4	1270.0
137.5°	632.2	659.0	685.8	692.5	757.5	844.2	887.6	955.7	1091.9	1194.1	1209.3
140°	655.5	680.2	704.9	711.0	768.4	845.0	883.3	942.2	1059.9	1148.2	1162.4
142.5°	673.4	696.3	719.0	724.7	777.6	848.1	883.3	935.1	1038.4	1115.9	1128.2
145°	700.8	720.7	740.6	745.6	789.6	848.2	877.4	919.7	1004.3	1067.7	1076.9
147.5°	728.3	747.6	766.9	771.8	807.0	853.9	877.4	910.7	977.2	1027.1	1034.8
150°	746.2	763.7	781.1	785.5	816.1	857.0	877.4	905.5	961.6	1003.8	1010.0
152.5°	764.7	778.0	791.2	794.5	822.2	859.0	877.4	901.4	949.4	985.3	990.0
155°	792.1	801.9	811.6	814.1	835.3	863.4	877.4	896.5	934.7	963.3	966.4
157.5°	812.4	822.0	831.4	833.8	848.4	867.8	877.4	892.2	922.0	944.2	946.4
160°	826.1	833.5	841.0	842.8	854.4	869.8	877.4	890.1	915.6	934.7	935.9
162.5°	839.8	845.4	850.9	852.4	860.7	871.9	877.4	888.1	909.6	925.7	926.8
165°	854.8	859.7	864.8	866.0	869.9	874.9	877.4	885.1	900.5	912.0	913.3
167.5°	868.4	870.8	873.2	873.8	876.9	881.2	883.3	888.4	898.4	906.0	906.6
170°	877.4	879.8	882.2	882.8	883.0	883.2	883.3	888.4	898.4	906.0	906.0
172.5°	882.2	882.7	883.2	883.3	883.3	883.3	883.3	887.4	895.3	901.2	900.7
175°	888.7	888.7	888.7	888.7	886.9	884.5	883.3	885.8	890.9	894.7	894.7
177.5°	888.7	888.7	888.7	888.7	887.4	885.5	884.6	886.6	890.5	893.5	892.9
180°	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1042.5	1039.6	1042.5	1040.6	1041.6	1038.7	1030.0	1027.1	1030.0	1032.9	1032.9
5°	1055.0	1053.0	1055.0	1055.0	1054.1	1052.1	1042.5	1040.6	1042.5	1043.5	1041.6
7.5°	1058.9	1056.0	1058.9	1057.0	1057.0	1055.0	1045.4	1043.5	1044.4	1047.3	1044.4
10°	1058.9	1056.0	1058.9	1057.9	1057.0	1055.0	1045.4	1041.6	1041.6	1044.4	1041.6
12.5°	1054.1	1052.1	1054.1	1052.1	1052.1	1050.2	1040.6	1036.7	1037.7	1038.7	1034.8
15°	1046.3	1043.5	1046.3	1044.4	1045.4	1042.5	1031.9	1028.1	1028.1	1030.0	1023.3
17.5°	1034.8	1031.0	1034.8	1033.8	1032.9	1031.0	1021.3	1017.5	1016.5	1017.5	1012.7
20°	1021.3	1018.4	1021.3	1020.3	1020.3	1016.5	1007.0	1002.1	1002.1	1002.1	997.3
22.5°	1000.2	997.3	1000.2	1002.1	1002.1	1001.1	992.5	985.7	983.8	983.8	978.1
25°	976.2	973.3	976.2	976.2	975.2	976.2	973.3	969.4	966.5	963.6	957.9
27.5°	953.0	951.1	953.0	951.1	953.0	950.2	949.2	948.3	944.4	941.6	933.8
30°	930.0	928.1	930.0	928.1	926.2	924.2	919.4	917.5	921.3	919.4	906.9
32.5°	901.1	899.2	901.1	901.1	899.2	899.2	891.5	888.6	889.6	895.4	883.8
35°	871.3	868.4	871.3	870.3	871.3	868.4	863.7	862.7	858.8	865.6	856.9
37.5°	836.7	833.8	836.7	836.7	836.7	838.6	834.8	831.9	826.1	834.8	828.0
40°	801.1	797.3	801.1	800.2	801.1	803.0	801.1	799.2	793.4	800.2	794.3
42.5°	760.7	759.7	760.7	761.6	761.6	765.6	768.4	764.6	762.6	757.8	761.6
45°	717.5	715.5	717.5	719.4	720.3	722.3	730.9	730.9	728.0	720.3	726.1
47.5°	671.3	666.4	671.3	677.0	677.0	679.9	688.6	695.3	690.5	680.9	683.8
50°	622.3	623.2	622.3	626.1	626.1	636.7	643.4	650.1	655.0	643.4	629.9
52.5°	574.2	573.2	574.2	577.0	580.9	585.6	597.2	604.0	611.6	605.0	583.7
55°	526.1	528.0	526.1	527.0	529.0	531.8	549.1	555.9	570.3	561.6	539.6
57.5°	478.0	475.1	478.0	479.9	480.9	483.7	498.2	510.7	519.3	520.3	493.4
60°	422.2	418.3	422.2	430.9	432.8	434.7	448.2	459.7	467.4	470.3	442.4
62.5°	373.1	366.4	373.1	379.0	382.8	387.6	397.2	414.5	421.2	422.2	382.8
65°	321.2	318.3	321.2	332.8	333.7	339.5	350.1	362.6	377.0	375.0	318.3
67.5°	274.1	274.1	274.1	281.8	287.6	290.4	303.9	309.6	327.9	329.9	265.5
70°	230.8	229.8	230.8	236.6	240.4	247.1	259.6	266.4	280.8	285.7	215.4
72.5°	189.5	188.5	189.5	194.3	198.1	203.9	214.4	222.2	234.7	240.4	167.3
75°	153.0	151.0	153.0	156.8	155.8	163.5	172.2	179.8	191.4	195.2	124.1
77.5°	117.3	117.3	117.3	121.2	121.2	128.9	132.7	142.3	149.0	154.9	91.4
80°	87.5	86.5	87.5	88.5	88.5	92.3	99.0	105.8	111.6	111.6	62.5
82.5°	61.6	59.7	61.6	61.6	61.6	63.5	67.3	69.2	73.1	76.0	39.4
85°	38.4	38.4	38.4	39.4	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°	22.7	22.7	22.7	22.7	22.7	30.2	40.2	45.3	39.0	26.3	16.7
92.5°	90.7	72.8	90.7	108.8	113.3	160.6	223.7	255.3	224.1	161.9	115.1
95°	316.4	261.8	316.4	371.0	384.7	505.2	665.9	746.2	630.2	398.3	224.3
97.5°	758.2	654.3	758.2	862.1	888.1	964.3	1065.8	1116.6	923.2	536.4	246.4
100°	1092.4	968.6	1092.4	1216.2	1247.2	1241.7	1234.2	1230.5	1015.8	586.7	264.8
102.5°	1421.2	1315.2	1421.2	1527.3	1553.8	1456.8	1327.4	1262.7	1045.1	609.8	283.4
105°	1840.4	1783.4	1840.4	1897.4	1911.6	1694.1	1404.2	1259.1	1048.4	626.9	310.8
107.5°	2115.1	2128.8	2115.1	2101.2	2097.8	1794.3	1389.8	1187.5	1001.7	630.1	351.3
110°	2219.7	2279.1	2219.7	2160.3	2145.5	1806.3	1354.0	1127.9	960.4	625.3	374.0



TEST NUMBER: P935011

CATALOG NUMBER: SQ4-FA-100U-050D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2229.0	2320.2	2229.0	2137.8	2115.1	1767.9	1305.0	1073.6	924.3	625.5	401.4
115°	2169.9	2296.4	2169.9	2043.5	2011.9	1677.5	1231.5	1008.6	882.8	631.2	442.5
117.5°	2044.6	2184.8	2044.6	1904.4	1869.3	1567.5	1165.1	963.8	856.9	642.9	482.5
120°	1943.6	2079.9	1943.6	1807.3	1773.3	1497.5	1129.8	946.0	848.2	652.6	505.8
122.5°	1845.3	1979.7	1845.3	1710.9	1677.2	1428.9	1097.9	932.3	843.6	666.2	533.3
125°	1704.9	1828.7	1704.9	1581.2	1550.2	1339.3	1058.0	917.4	839.8	684.8	568.4
127.5°	1578.8	1683.2	1578.8	1474.3	1448.2	1267.1	1025.6	904.9	837.6	703.2	602.5
130°	1504.5	1600.9	1504.5	1407.9	1383.8	1222.5	1007.5	900.1	839.0	716.8	625.1
132.5°	1437.0	1523.4	1437.0	1350.5	1328.9	1184.6	992.1	895.9	839.8	727.7	643.6
135°	1344.5	1419.0	1344.5	1270.0	1251.4	1130.5	969.3	888.7	839.0	739.7	665.1
137.5°	1270.3	1331.3	1270.3	1209.3	1194.1	1091.9	955.7	887.6	844.2	757.5	692.5
140°	1219.5	1276.5	1219.5	1162.4	1148.2	1059.9	942.2	883.3	845.0	768.4	711.0
142.5°	1177.3	1226.4	1177.3	1128.2	1115.9	1038.4	935.1	883.3	848.1	777.6	724.7
145°	1114.1	1151.2	1114.1	1076.9	1067.7	1004.3	919.7	877.4	848.2	789.6	745.6
147.5°	1065.6	1096.3	1065.6	1034.8	1027.1	977.2	910.7	877.4	853.9	807.0	771.8
150°	1035.0	1059.9	1035.0	1010.0	1003.8	961.6	905.5	877.4	857.0	816.1	785.5
152.5°	1008.9	1027.7	1008.9	990.0	985.3	949.4	901.4	877.4	859.0	822.2	794.5
155°	978.8	991.3	978.8	966.4	963.3	934.7	896.5	877.4	863.4	835.3	814.1
157.5°	955.1	963.8	955.1	946.4	944.2	922.0	892.2	877.4	867.8	848.4	833.8
160°	941.0	946.0	941.0	935.9	934.7	915.6	890.1	877.4	869.8	854.4	842.8
162.5°	931.6	936.4	931.6	926.8	925.7	909.6	888.1	877.4	871.9	860.7	852.4
165°	918.3	923.3	918.3	913.3	912.0	900.5	885.1	877.4	874.9	869.9	866.0
167.5°	908.7	910.8	908.7	906.6	906.0	898.4	888.4	883.3	881.2	876.9	873.8
170°	906.0	906.0	906.0	906.0	906.0	898.4	888.4	883.3	883.2	883.0	882.8
172.5°	898.9	897.1	898.9	900.7	901.2	895.3	887.4	883.3	883.3	883.3	883.3
175°	894.7	894.7	894.7	894.7	894.7	890.9	885.8	883.3	884.5	886.9	888.7
177.5°	890.8	888.7	890.8	892.9	893.5	890.5	886.6	884.6	885.5	887.4	888.7
180°	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7



TEST NUMBER: P935011

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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1031.0	1025.2	1025.2	1015.6	1011.7	1008.9	1004.0	989.7	985.7	981.9	987.6
5°	1039.6	1029.0	1021.3	1004.0	989.7	983.8	965.6	931.0	907.8	890.5	881.0
7.5°	1041.6	1028.1	1013.6	986.7	952.1	936.7	881.0	817.5	800.2	784.8	775.1
10°	1039.6	1024.3	1004.0	963.6	881.9	855.0	799.2	757.8	747.2	744.3	747.2
12.5°	1032.9	1018.4	990.6	923.2	808.8	790.5	757.8	733.8	731.8	736.7	762.6
15°	1021.3	1007.9	975.2	869.4	768.4	755.0	731.8	723.2	733.8	767.5	845.4
17.5°	1009.8	994.4	954.0	816.5	737.6	728.0	711.6	728.9	788.6	833.8	859.7
20°	994.4	976.2	930.0	778.0	715.5	706.9	699.1	777.0	822.3	838.6	853.0
22.5°	976.2	956.9	897.3	751.1	692.4	685.7	690.5	804.0	822.3	833.8	846.3
25°	952.1	935.7	858.8	729.9	674.2	666.4	684.8	801.1	811.6	814.6	839.6
27.5°	930.0	908.8	818.4	710.7	652.1	649.1	689.6	788.6	796.3	799.2	826.1
30°	903.0	871.3	773.2	690.5	629.0	628.0	690.5	773.2	771.3	778.9	805.9
32.5°	875.1	815.6	722.3	665.5	606.9	605.9	683.8	750.2	748.3	758.8	778.9
35°	849.2	772.3	653.0	636.7	579.0	579.9	667.4	723.2	724.2	733.8	746.3
37.5°	822.3	734.8	577.0	605.0	552.0	552.0	645.3	698.2	696.3	699.1	716.5
40°	790.5	676.1	509.7	563.6	527.0	524.2	618.3	671.3	664.5	663.6	687.7
42.5°	756.9	611.6	459.7	508.8	498.2	494.3	585.6	638.6	626.1	629.0	659.7
45°	720.3	594.3	421.2	429.9	468.3	465.5	550.1	601.0	592.4	600.1	631.8
47.5°	683.8	559.7	408.7	356.8	436.6	435.6	510.7	564.5	559.7	567.4	601.0
50°	633.7	521.2	407.7	305.8	401.0	404.9	463.6	529.0	529.0	535.6	571.3
52.5°	569.3	474.1	370.3	277.0	359.6	371.2	422.2	498.2	500.1	506.9	538.5
55°	510.7	425.0	343.3	254.9	310.6	335.7	381.8	466.4	470.3	477.0	505.8
57.5°	456.8	353.9	337.6	228.9	265.5	289.5	346.3	435.6	437.6	443.4	471.2
60°	399.1	255.8	309.6	201.0	226.0	244.3	313.5	399.1	405.8	409.6	433.7
62.5°	333.7	185.7	280.8	181.7	206.8	210.6	286.6	364.5	373.1	376.0	390.4
65°	237.6	155.8	238.5	165.4	186.6	187.6	257.7	328.9	336.6	341.4	352.0
67.5°	160.6	127.0	181.7	150.0	171.2	172.2	229.8	287.6	298.2	302.0	308.7
70°	111.6	84.6	134.6	133.6	153.9	155.8	200.0	250.1	259.6	262.5	266.4
72.5°	81.7	68.3	111.6	120.2	135.6	137.6	169.3	207.7	217.4	220.3	222.2
75°	62.5	72.1	90.4	104.9	115.4	116.3	138.5	169.3	176.0	177.9	178.9
77.5°	50.0	67.3	66.3	84.6	94.3	92.3	108.7	130.8	136.5	136.5	136.5
80°	37.5	52.9	50.0	60.6	69.2	67.3	77.9	93.3	95.2	97.1	96.2
82.5°	27.9	33.7	33.7	38.4	46.2	44.3	51.9	60.6	60.6	60.6	62.5
85°	17.3	19.2	15.4	20.2	26.0	25.0	28.9	32.7	33.7	33.7	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°	105.0	64.4	23.9	64.4	105.0	115.1	161.9	224.1	255.3	223.7	160.6
95°	205.7	131.4	57.3	131.4	205.7	224.3	398.3	630.2	746.2	665.9	505.2
97.5°	230.0	164.5	99.0	164.5	230.0	246.4	536.4	923.2	1116.6	1065.8	964.3
100°	250.0	190.6	131.3	190.6	250.0	264.8	586.7	1015.8	1230.5	1234.2	1241.7
102.5°	269.5	214.1	158.7	214.1	269.5	283.4	609.8	1045.1	1262.7	1327.4	1456.8
105°	299.0	252.1	205.2	252.1	299.0	310.8	626.9	1048.4	1259.1	1404.2	1694.1
107.5°	340.4	296.6	252.9	296.6	340.4	351.3	630.1	1001.7	1187.5	1389.8	1794.3
110°	364.1	324.6	285.1	324.6	364.1	374.0	625.3	960.4	1127.9	1354.0	1806.3



TEST NUMBER: P935011

CATALOG NUMBER: SQ4-FA-100U-050D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	392.1	354.4	316.7	354.4	392.1	401.4	625.5	924.3	1073.6	1305.0	1767.9
115°	433.8	399.1	364.4	399.1	433.8	442.5	631.2	882.8	1008.6	1231.5	1677.5
117.5°	474.7	443.1	411.6	443.1	474.7	482.5	642.9	856.9	963.8	1165.1	1567.5
120°	498.4	468.7	439.0	468.7	498.4	505.8	652.6	848.2	946.0	1129.8	1497.5
122.5°	525.8	495.8	465.9	495.8	525.8	533.3	666.2	843.6	932.3	1097.9	1428.9
125°	561.6	534.3	507.0	534.3	561.6	568.4	684.8	839.8	917.4	1058.0	1339.3
127.5°	595.6	568.0	540.4	568.0	595.6	602.5	703.2	837.6	904.9	1025.6	1267.1
130°	617.7	588.0	558.3	588.0	617.7	625.1	716.8	839.0	900.1	1007.5	1222.5
132.5°	636.1	606.5	576.8	606.5	636.1	643.6	727.7	839.8	895.9	992.1	1184.6
135°	658.3	631.2	604.2	631.2	658.3	665.1	739.7	839.0	888.7	969.3	1130.5
137.5°	685.8	659.0	632.2	659.0	685.8	692.5	757.5	844.2	887.6	955.7	1091.9
140°	704.9	680.2	655.5	680.2	704.9	711.0	768.4	845.0	883.3	942.2	1059.9
142.5°	719.0	696.3	673.4	696.3	719.0	724.7	777.6	848.1	883.3	935.1	1038.4
145°	740.6	720.7	700.8	720.7	740.6	745.6	789.6	848.2	877.4	919.7	1004.3
147.5°	766.9	747.6	728.3	747.6	766.9	771.8	807.0	853.9	877.4	910.7	977.2
150°	781.1	763.7	746.2	763.7	781.1	785.5	816.1	857.0	877.4	905.5	961.6
152.5°	791.2	778.0	764.7	778.0	791.2	794.5	822.2	859.0	877.4	901.4	949.4
155°	811.6	801.9	792.1	801.9	811.6	814.1	835.3	863.4	877.4	896.5	934.7
157.5°	831.4	822.0	812.4	822.0	831.4	833.8	848.4	867.8	877.4	892.2	922.0
160°	841.0	833.5	826.1	833.5	841.0	842.8	854.4	869.8	877.4	890.1	915.6
162.5°	850.9	845.4	839.8	845.4	850.9	852.4	860.7	871.9	877.4	888.1	909.6
165°	864.8	859.7	854.8	859.7	864.8	866.0	869.9	874.9	877.4	885.1	900.5
167.5°	873.2	870.8	868.4	870.8	873.2	873.8	876.9	881.2	883.3	888.4	898.4
170°	882.2	879.8	877.4	879.8	882.2	882.8	883.0	883.2	883.3	888.4	898.4
172.5°	883.2	882.7	882.2	882.7	883.2	883.3	883.3	883.3	883.3	887.4	895.3
175°	888.7	888.7	888.7	888.7	888.7	888.7	886.9	884.5	883.3	885.8	890.9
177.5°	888.7	888.7	888.7	888.7	888.7	888.7	887.4	885.5	884.6	886.6	890.5
180°	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7



TEST NUMBER: P935011
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	981.0	978.1	981.9	971.3	981.9	978.1	981.0	987.6	981.9	985.7	989.7
5°	860.8	855.9	840.5	828.0	840.5	855.9	860.8	881.0	890.5	907.8	931.0
7.5°	769.4	765.6	761.6	754.0	761.6	765.6	769.4	775.1	784.8	800.2	817.5
10°	749.2	750.2	755.9	755.0	755.9	750.2	749.2	747.2	744.3	747.2	757.8
12.5°	801.1	809.7	841.5	839.6	841.5	809.7	801.1	762.6	736.7	731.8	733.8
15°	860.8	863.7	870.3	871.3	870.3	863.7	860.8	845.4	767.5	733.8	723.2
17.5°	866.5	867.5	872.3	872.3	872.3	867.5	866.5	859.7	833.8	788.6	728.9
20°	861.7	863.7	873.2	875.1	873.2	863.7	861.7	853.0	838.6	822.3	777.0
22.5°	859.7	863.7	871.3	870.3	871.3	863.7	859.7	846.3	833.8	822.3	804.0
25°	850.2	850.2	851.1	852.1	851.1	850.2	850.2	839.6	814.6	811.6	801.1
27.5°	830.0	831.9	837.6	836.7	837.6	831.9	830.0	826.1	799.2	796.3	788.6
30°	811.6	809.7	805.0	801.1	805.0	809.7	811.6	805.9	778.9	771.3	773.2
32.5°	781.0	776.1	771.3	768.4	771.3	776.1	781.0	778.9	758.8	748.3	750.2
35°	744.3	745.3	744.3	741.5	744.3	745.3	744.3	746.3	733.8	724.2	723.2
37.5°	718.4	720.3	719.4	715.5	719.4	720.3	718.4	716.5	699.1	696.3	698.2
40°	691.5	692.4	691.5	688.6	691.5	692.4	691.5	687.7	663.6	664.5	671.3
42.5°	665.5	664.5	661.6	659.7	661.6	664.5	665.5	659.7	629.0	626.1	638.6
45°	635.7	636.7	630.9	628.0	630.9	636.7	635.7	631.8	600.1	592.4	601.0
47.5°	605.9	605.9	601.0	598.2	601.0	605.9	605.9	601.0	567.4	559.7	564.5
50°	574.2	573.2	566.4	565.5	566.4	573.2	574.2	571.3	535.6	529.0	529.0
52.5°	537.6	537.6	538.5	540.5	538.5	537.6	537.6	538.5	506.9	500.1	498.2
55°	505.8	506.9	513.6	515.5	513.6	506.9	505.8	505.8	477.0	470.3	466.4
57.5°	473.1	473.1	478.0	478.0	478.0	473.1	473.1	471.2	443.4	437.6	435.6
60°	435.6	437.6	441.4	440.4	441.4	437.6	435.6	433.7	409.6	405.8	399.1
62.5°	396.3	398.2	399.1	397.2	399.1	398.2	396.3	390.4	376.0	373.1	364.5
65°	354.9	356.8	357.7	355.8	357.7	356.8	354.9	352.0	341.4	336.6	328.9
67.5°	312.5	311.6	310.6	314.5	310.6	311.6	312.5	308.7	302.0	298.2	287.6
70°	269.3	269.3	268.3	270.3	268.3	269.3	269.3	266.4	262.5	259.6	250.1
72.5°	223.1	222.2	226.0	223.1	226.0	222.2	223.1	222.2	220.3	217.4	207.7
75°	177.9	179.8	177.9	180.8	177.9	179.8	177.9	178.9	177.9	176.0	169.3
77.5°	135.6	137.6	135.6	135.6	135.6	137.6	135.6	136.5	136.5	136.5	130.8
80°	96.2	95.2	95.2	94.3	95.2	95.2	96.2	96.2	97.1	95.2	93.3
82.5°	61.6	60.6	60.6	62.5	60.6	60.6	61.6	62.5	60.6	60.6	60.6
85°	33.7	34.6	32.7	32.7	32.7	34.6	33.7	31.7	33.7	33.7	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°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	30.2	40.2	45.3	39.0
92.5°	113.3	108.8	90.7	72.8	90.7	108.8	113.3	160.6	223.7	255.3	224.1
95°	384.7	371.0	316.4	261.8	316.4	371.0	384.7	505.2	665.9	746.2	630.2
97.5°	888.1	862.1	758.2	654.3	758.2	862.1	888.1	964.3	1065.8	1116.6	923.2
100°	1247.2	1216.2	1092.4	968.6	1092.4	1216.2	1247.2	1241.7	1234.2	1230.5	1015.8
102.5°	1553.8	1527.3	1421.2	1315.2	1421.2	1527.3	1553.8	1456.8	1327.4	1262.7	1045.1
105°	1911.6	1897.4	1840.4	1783.4	1840.4	1897.4	1911.6	1694.1	1404.2	1259.1	1048.4
107.5°	2097.8	2101.2	2115.1	2128.8	2115.1	2101.2	2097.8	1794.3	1389.8	1187.5	1001.7
110°	2145.5	2160.3	2219.7	2279.1	2219.7	2160.3	2145.5	1806.3	1354.0	1127.9	960.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2115.1	2137.8	2229.0	2320.2	2229.0	2137.8	2115.1	1767.9	1305.0	1073.6	924.3
115°	2011.9	2043.5	2169.9	2296.4	2169.9	2043.5	2011.9	1677.5	1231.5	1008.6	882.8
117.5°	1869.3	1904.4	2044.6	2184.8	2044.6	1904.4	1869.3	1567.5	1165.1	963.8	856.9
120°	1773.3	1807.3	1943.6	2079.9	1943.6	1807.3	1773.3	1497.5	1129.8	946.0	848.2
122.5°	1677.2	1710.9	1845.3	1979.7	1845.3	1710.9	1677.2	1428.9	1097.9	932.3	843.6
125°	1550.2	1581.2	1704.9	1828.7	1704.9	1581.2	1550.2	1339.3	1058.0	917.4	839.8
127.5°	1448.2	1474.3	1578.8	1683.2	1578.8	1474.3	1448.2	1267.1	1025.6	904.9	837.6
130°	1383.8	1407.9	1504.5	1600.9	1504.5	1407.9	1383.8	1222.5	1007.5	900.1	839.0
132.5°	1328.9	1350.5	1437.0	1523.4	1437.0	1350.5	1328.9	1184.6	992.1	895.9	839.8
135°	1251.4	1270.0	1344.5	1419.0	1344.5	1270.0	1251.4	1130.5	969.3	888.7	839.0
137.5°	1194.1	1209.3	1270.3	1331.3	1270.3	1209.3	1194.1	1091.9	955.7	887.6	844.2
140°	1148.2	1162.4	1219.5	1276.5	1219.5	1162.4	1148.2	1059.9	942.2	883.3	845.0
142.5°	1115.9	1128.2	1177.3	1226.4	1177.3	1128.2	1115.9	1038.4	935.1	883.3	848.1
145°	1067.7	1076.9	1114.1	1151.2	1114.1	1076.9	1067.7	1004.3	919.7	877.4	848.2
147.5°	1027.1	1034.8	1065.6	1096.3	1065.6	1034.8	1027.1	977.2	910.7	877.4	853.9
150°	1003.8	1010.0	1035.0	1059.9	1035.0	1010.0	1003.8	961.6	905.5	877.4	857.0
152.5°	985.3	990.0	1008.9	1027.7	1008.9	990.0	985.3	949.4	901.4	877.4	859.0
155°	963.3	966.4	978.8	991.3	978.8	966.4	963.3	934.7	896.5	877.4	863.4
157.5°	944.2	946.4	955.1	963.8	955.1	946.4	944.2	922.0	892.2	877.4	867.8
160°	934.7	935.9	941.0	946.0	941.0	935.9	934.7	915.6	890.1	877.4	869.8
162.5°	925.7	926.8	931.6	936.4	931.6	926.8	925.7	909.6	888.1	877.4	871.9
165°	912.0	913.3	918.3	923.3	918.3	913.3	912.0	900.5	885.1	877.4	874.9
167.5°	906.0	906.6	908.7	910.8	908.7	906.6	906.0	898.4	888.4	883.3	881.2
170°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	898.4	888.4	883.3	883.2
172.5°	901.2	900.7	898.9	897.1	898.9	900.7	901.2	895.3	887.4	883.3	883.3
175°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	890.9	885.8	883.3	884.5
177.5°	893.5	892.9	890.8	888.7	890.8	892.9	893.5	890.5	886.6	884.6	885.5
180°	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7	888.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1004.0	1008.9	1011.7	1015.6	1025.2
5°	965.6	983.8	989.7	1004.0	1021.3
7.5°	881.0	936.7	952.1	986.7	1013.6
10°	799.2	855.0	881.9	963.6	1004.0
12.5°	757.8	790.5	808.8	923.2	990.6
15°	731.8	755.0	768.4	869.4	975.2
17.5°	711.6	728.0	737.6	816.5	954.0
20°	699.1	706.9	715.5	778.0	930.0
22.5°	690.5	685.7	692.4	751.1	897.3
25°	684.8	666.4	674.2	729.9	858.8
27.5°	689.6	649.1	652.1	710.7	818.4
30°	690.5	628.0	629.0	690.5	773.2
32.5°	683.8	605.9	606.9	665.5	722.3
35°	667.4	579.9	579.0	636.7	653.0
37.5°	645.3	552.0	552.0	605.0	577.0
40°	618.3	524.2	527.0	563.6	509.7
42.5°	585.6	494.3	498.2	508.8	459.7
45°	550.1	465.5	468.3	429.9	421.2
47.5°	510.7	435.6	436.6	356.8	408.7
50°	463.6	404.9	401.0	305.8	407.7
52.5°	422.2	371.2	359.6	277.0	370.3
55°	381.8	335.7	310.6	254.9	343.3
57.5°	346.3	289.5	265.5	228.9	337.6
60°	313.5	244.3	226.0	201.0	309.6
62.5°	286.6	210.6	206.8	181.7	280.8
65°	257.7	187.6	186.6	165.4	238.5
67.5°	229.8	172.2	171.2	150.0	181.7
70°	200.0	155.8	153.9	133.6	134.6
72.5°	169.3	137.6	135.6	120.2	111.6
75°	138.5	116.3	115.4	104.9	90.4
77.5°	108.7	92.3	94.3	84.6	66.3
80°	77.9	67.3	69.2	60.6	50.0
82.5°	51.9	44.3	46.2	38.4	33.7
85°	28.9	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°	161.9	115.1	105.0	64.4	23.9
95°	398.3	224.3	205.7	131.4	57.3
97.5°	536.4	246.4	230.0	164.5	99.0
100°	586.7	264.8	250.0	190.6	131.3
102.5°	609.8	283.4	269.5	214.1	158.7
105°	626.9	310.8	299.0	252.1	205.2
107.5°	630.1	351.3	340.4	296.6	252.9
110°	625.3	374.0	364.1	324.6	285.1



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CATALOG NUMBER: SQ4-FA-100U-050D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	625.5	401.4	392.1	354.4	316.7
115°	631.2	442.5	433.8	399.1	364.4
117.5°	642.9	482.5	474.7	443.1	411.6
120°	652.6	505.8	498.4	468.7	439.0
122.5°	666.2	533.3	525.8	495.8	465.9
125°	684.8	568.4	561.6	534.3	507.0
127.5°	703.2	602.5	595.6	568.0	540.4
130°	716.8	625.1	617.7	588.0	558.3
132.5°	727.7	643.6	636.1	606.5	576.8
135°	739.7	665.1	658.3	631.2	604.2
137.5°	757.5	692.5	685.8	659.0	632.2
140°	768.4	711.0	704.9	680.2	655.5
142.5°	777.6	724.7	719.0	696.3	673.4
145°	789.6	745.6	740.6	720.7	700.8
147.5°	807.0	771.8	766.9	747.6	728.3
150°	816.1	785.5	781.1	763.7	746.2
152.5°	822.2	794.5	791.2	778.0	764.7
155°	835.3	814.1	811.6	801.9	792.1
157.5°	848.4	833.8	831.4	822.0	812.4
160°	854.4	842.8	841.0	833.5	826.1
162.5°	860.7	852.4	850.9	845.4	839.8
165°	869.9	866.0	864.8	859.7	854.8
167.5°	876.9	873.8	873.2	870.8	868.4
170°	883.0	882.8	882.2	879.8	877.4
172.5°	883.3	883.3	883.2	882.7	882.2
175°	886.9	888.7	888.7	888.7	888.7
177.5°	887.4	888.7	888.7	888.7	888.7
180°	888.7	888.7	888.7	888.7	888.7



TEST NUMBER: P935011
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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	9.17	9.88	10.27	10.98	12.50	11.99	12.71	13.09	13.81	15.32
	3H	9.63	10.27	10.74	11.38	12.91	13.32	13.96	14.43	15.07	16.60
	4H	9.82	10.43	10.94	11.53	13.07	13.76	14.37	14.88	15.48	17.01
	6H	9.93	10.49	11.06	11.60	13.15	14.04	14.60	15.17	15.71	17.25
	8H	9.93	10.46	11.06	11.58	13.13	14.11	14.64	15.24	15.76	17.31
	12H	9.89	10.40	11.03	11.52	13.08	14.14	14.64	15.28	15.76	17.33
4H	2H	10.18	10.79	11.31	11.90	13.43	12.38	12.99	13.51	14.10	15.64
	3H	11.19	11.70	12.33	12.83	14.38	13.87	14.38	15.01	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	13.13	14.69	14.75	15.15	15.89	16.29	17.85
	8H	11.58	11.95	12.73	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	15.24	16.06	16.39	17.97
8H	4H	11.90	12.28	13.05	13.41	14.99	14.51	14.88	15.65	16.02	17.59
	6H	12.16	12.47	13.32	13.65	15.22	14.94	15.24	16.10	16.42	18.00
	8H	12.20	12.47	13.37	13.63	15.22	15.09	15.35	16.26	16.51	18.11
	12H	12.18	12.41	13.35	13.57	15.20	15.18	15.41	16.35	16.57	18.20
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	12.49	13.39	13.65	15.24	14.93	15.20	16.10	16.36	17.95
	8H	12.28	12.51	13.45	13.67	15.30	15.09	15.32	16.26	16.48	18.11