

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: P935270

Luminaire Tested: SQ4-FA-100U-100D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935270
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

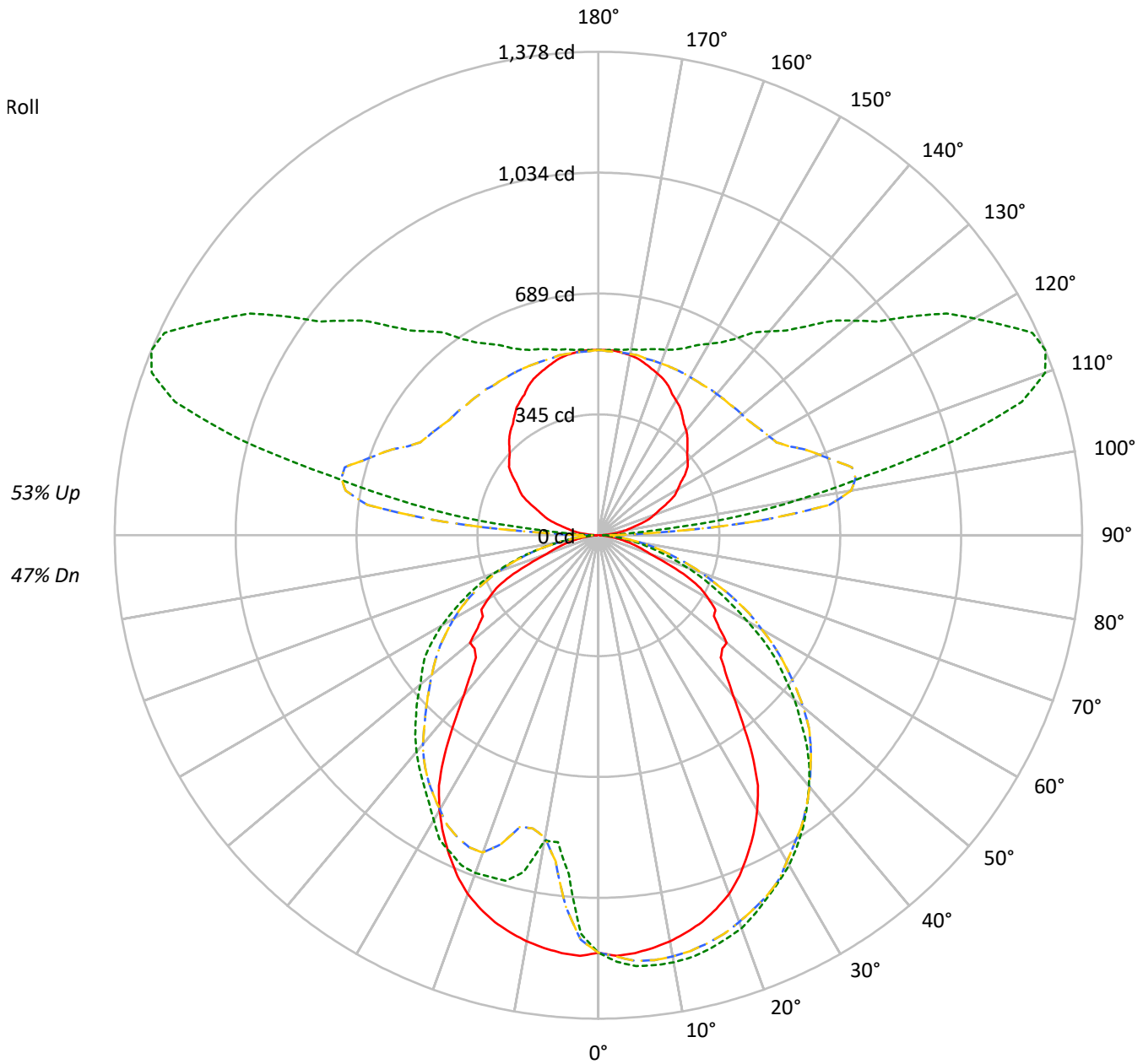
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6510.1 lumens
Efficiency: N/A
Efficacy: 112.2 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: General Diffuse

Input Watts (W): 58
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: P935270
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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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40				40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34				34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28				28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24				24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21				21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19				19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16				16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15				15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13				13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12				12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11040	11040	11040	11040
5°	11111	11146	11111	8763
10°	11025	10979	11025	7849
15°	10892	10740	10892	8968
20°	10652	10459	10652	8988
25°	10174	10048	10174	8797
30°	9560	9707	9560	8379
35°	8509	9275	8509	7919
40°	7079	8767	7079	7572
45°	6313	8172	6313	7173
50°	6691	7464	6691	6772
55°	6278	6699	6278	6541
60°	6446	5689	6446	5990
65°	5818	4703	5818	5257
70°	4001	3749	4001	4407
75°	3469	2770	3469	3317
80°	2738	1831	2738	1994
85°	1490	970	1490	825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9693 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.6
10°-20°	305.0	4.7
20°-30°	471.4	7.2
30°-40°	562.8	8.6
40°-50°	566.1	8.7
50°-60°	492.5	7.6
60°-70°	349.2	5.4
70°-80°	184.7	2.8
80°-90°	48.0	0.7
90°-100°	257.4	4.0
100°-110°	676.7	10.4
110°-120°	701.7	10.8
120°-130°	562.8	8.6
130°-140°	441.6	6.8
140°-150°	339.0	5.2
150°-160°	244.1	3.7
160°-170°	149.4	2.3
170°-180°	50.5	0.8
0°-30°	883.8	13.6
0°-40°	1446.5	22.2
0°-60°	2505.1	38.5
0°-90°	3087.1	47.4
90°-120°	1635.7	25.1
90°-150°	2979.1	45.8
90°-180°	3423.0	52.6
0°-180°	6510.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1190	1190	1190	1190	1190	
5°	1196	1233	1196	969	1196	113
15°	1141	1221	1141	1020	1141	321
25°	1005	1139	1005	997	1005	462
35°	764	1016	764	868	764	473
45°	493	838	493	735	493	395
55°	402	618	402	603	402	369
65°	279	373	279	416	279	267
75°	106	177	106	212	106	111
85°	18	45	18	38	18	24
90°	4	14	4	14	4	4
95°	34	156	34	156	34	38
105°	122	1060	122	1060	122	129
115°	216	1364	216	1364	216	214
125°	301	1087	301	1087	301	267
135°	359	843	359	843	359	278
145°	416	684	416	684	416	261
155°	471	589	471	589	471	216
165°	508	549	508	549	508	143
175°	528	532	528	532	528	50
180°	528	528	528	528	528	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1200.0	1200.0	1206.8	1209.0	1209.0	1205.6	1202.3	1205.6	1215.7	1219.1	1218.0
5°	1195.5	1204.5	1216.9	1219.1	1221.3	1220.2	1218.0	1220.2	1231.5	1233.8	1234.9
7.5°	1186.5	1203.4	1219.1	1222.5	1225.9	1222.5	1221.3	1223.6	1234.9	1237.1	1237.1
10°	1175.2	1198.8	1216.9	1219.1	1222.5	1219.1	1219.1	1223.6	1234.9	1237.1	1238.3
12.5°	1159.5	1192.1	1209.0	1211.3	1215.7	1214.6	1213.5	1218.0	1229.3	1231.5	1231.5
15°	1141.4	1179.8	1195.5	1197.7	1205.6	1203.4	1203.4	1207.9	1220.2	1223.6	1222.5
17.5°	1116.7	1164.0	1182.0	1185.4	1191.0	1189.8	1191.0	1195.5	1206.8	1209.0	1210.1
20°	1088.5	1142.6	1164.0	1167.3	1172.9	1172.9	1172.9	1178.6	1189.8	1194.3	1194.3
22.5°	1050.3	1120.0	1142.6	1144.8	1151.6	1151.6	1153.9	1161.7	1171.8	1172.9	1172.9
25°	1005.3	1095.3	1114.4	1121.2	1128.0	1131.3	1134.7	1139.2	1142.6	1141.4	1142.6
27.5°	958.0	1063.8	1088.5	1093.0	1102.1	1105.5	1109.9	1111.1	1112.2	1115.5	1113.3
30°	905.1	1019.8	1057.0	1061.5	1076.2	1078.4	1073.9	1076.2	1081.8	1084.1	1086.3
32.5°	845.4	954.6	1024.4	1034.5	1048.0	1041.2	1040.1	1043.5	1052.6	1052.6	1054.8
35°	764.3	904.0	994.0	1003.0	1013.1	1005.3	1009.7	1010.9	1016.5	1019.8	1018.7
37.5°	675.4	860.0	962.5	969.2	977.1	966.9	973.8	977.1	981.6	979.4	979.4
40°	596.7	791.3	925.4	929.8	936.6	928.7	935.4	937.7	939.9	937.7	936.6
42.5°	538.1	715.9	885.9	891.5	887.0	892.6	894.9	899.5	896.0	891.5	891.5
45°	493.1	695.7	843.1	849.9	843.1	852.2	855.5	855.5	845.4	843.1	842.0
47.5°	478.4	655.2	800.4	800.4	797.0	808.2	813.9	806.0	795.9	792.5	792.5
50°	477.3	610.1	741.8	737.3	753.1	766.6	761.0	753.1	745.2	732.8	732.8
52.5°	433.4	555.0	666.4	683.3	708.1	715.9	706.9	699.1	685.5	679.9	675.4
55°	401.9	497.6	597.8	631.5	657.4	667.5	650.7	642.7	622.5	619.1	616.8
57.5°	395.2	414.2	534.7	577.5	609.0	607.9	597.8	583.1	566.2	562.8	561.7
60°	362.4	299.4	467.2	517.8	550.5	547.1	538.1	524.6	508.8	506.6	504.3
62.5°	328.7	217.3	390.6	448.1	494.2	493.1	485.2	464.9	453.7	448.1	443.6
65°	279.2	182.3	278.0	372.6	439.0	441.3	424.4	409.7	397.4	390.6	389.4
67.5°	212.7	148.6	188.0	310.7	386.1	383.8	362.4	355.7	339.9	336.5	329.8
70°	157.6	99.1	130.6	252.2	334.3	328.7	311.8	303.9	289.3	281.4	276.9
72.5°	130.6	79.9	95.7	195.9	281.4	274.7	260.0	251.0	238.6	231.9	227.4
75°	105.8	84.4	73.2	145.2	228.5	224.0	210.5	201.5	191.4	182.3	183.5
77.5°	77.7	78.8	58.5	106.9	181.2	174.5	166.6	155.3	150.8	141.9	141.9
80°	58.5	61.9	43.9	73.2	130.6	130.6	123.8	116.0	108.0	103.6	103.6
82.5°	39.4	39.4	32.6	46.2	88.9	85.5	81.0	78.8	74.3	72.1	72.1
85°	18.0	22.5	20.3	28.1	48.4	50.7	50.7	48.4	47.3	45.0	46.2
87.5°	5.6	10.1	12.4	15.8	24.8	25.9	27.0	27.0	27.0	28.1	28.1
90°	3.6	6.4	9.2	9.9	15.6	23.2	26.9	23.9	18.0	13.5	13.5
92.5°	14.1	38.3	62.4	68.4	96.2	133.2	151.7	132.9	95.4	67.3	64.7
95°	34.0	78.1	122.3	133.3	236.6	374.4	443.3	395.6	300.2	228.6	220.5
97.5°	58.8	97.7	136.7	146.4	318.7	548.5	663.4	633.2	572.9	527.6	512.2
100°	78.0	113.2	148.5	157.4	348.6	603.6	731.1	733.3	737.7	741.0	722.6
102.5°	94.2	127.2	160.1	168.4	362.4	620.9	750.3	788.7	865.5	923.1	907.4
105°	121.9	149.8	177.6	184.6	372.5	622.9	748.1	834.3	1006.6	1135.8	1127.4
107.5°	150.3	176.3	202.3	208.7	374.4	595.1	705.5	825.8	1066.1	1246.4	1248.4
110°	169.4	192.9	216.3	222.2	371.5	570.6	670.1	804.5	1073.2	1274.7	1283.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	188.2	210.5	232.9	238.5	371.6	549.1	637.9	775.4	1050.3	1256.6	1270.2
115°	216.5	237.1	257.7	262.9	375.1	524.6	599.3	731.8	996.7	1195.4	1214.1
117.5°	244.5	263.3	282.0	286.7	382.0	509.2	572.7	692.2	931.3	1110.7	1131.5
120°	260.8	278.4	296.1	300.5	387.7	504.0	562.1	671.3	889.7	1053.6	1073.9
122.5°	276.8	294.6	312.4	316.9	395.8	501.2	553.9	652.2	848.9	996.5	1016.4
125°	301.3	317.5	333.6	337.7	406.8	498.9	545.0	628.6	795.7	921.0	939.4
127.5°	321.0	337.4	353.8	357.9	417.8	497.7	537.6	609.4	752.8	860.4	875.9
130°	331.7	349.3	367.0	371.4	425.8	498.5	534.8	598.7	726.4	822.2	836.5
132.5°	342.7	360.3	377.9	382.4	432.3	498.9	532.2	589.4	703.8	789.5	802.4
135°	359.0	375.1	391.2	395.2	439.5	498.5	528.1	576.0	671.6	743.5	754.5
137.5°	375.6	391.6	407.4	411.4	450.0	501.6	527.3	567.8	648.7	709.5	718.5
140°	389.4	404.1	418.8	422.4	456.6	502.1	524.8	559.8	629.7	682.2	690.6
142.5°	400.1	413.6	427.2	430.6	462.0	503.9	524.8	555.5	616.9	663.0	670.4
145°	416.4	428.2	440.0	443.0	469.1	504.0	521.3	546.5	596.7	634.3	639.9
147.5°	432.7	444.2	455.6	458.5	479.5	507.4	521.3	541.1	580.6	610.3	614.9
150°	443.3	453.7	464.1	466.7	485.0	509.2	521.3	538.0	571.4	596.4	600.1
152.5°	454.3	462.1	470.0	472.0	488.5	510.3	521.3	535.6	564.0	585.4	588.2
155°	470.6	476.4	482.3	483.8	496.3	513.0	521.3	532.7	555.3	572.3	574.2
157.5°	482.7	488.4	494.0	495.4	504.0	515.5	521.3	530.1	547.8	561.0	562.2
160°	490.8	495.3	499.6	500.7	507.6	516.7	521.3	528.9	544.0	555.3	556.1
162.5°	498.9	502.3	505.6	506.4	511.4	518.0	521.3	527.7	540.4	550.0	550.6
165°	507.8	510.8	513.8	514.5	516.8	519.8	521.3	525.9	535.1	541.9	542.6
167.5°	516.0	517.4	518.9	519.2	521.1	523.6	524.8	527.8	533.8	538.3	538.6
170°	521.3	522.7	524.2	524.5	524.6	524.7	524.8	527.8	533.8	538.3	538.3
172.5°	524.2	524.5	524.7	524.8	524.8	524.8	524.8	527.2	531.9	535.5	535.2
175°	528.1	528.1	528.1	528.1	527.0	525.5	524.8	526.4	529.3	531.6	531.6
177.5°	528.1	528.1	528.1	528.1	527.2	526.1	525.5	526.7	529.1	530.9	530.5
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1220.2	1216.9	1220.2	1218.0	1219.1	1215.7	1205.6	1202.3	1205.6	1209.0	1209.0
5°	1234.9	1232.7	1234.9	1234.9	1233.8	1231.5	1220.2	1218.0	1220.2	1221.3	1219.1
7.5°	1239.4	1236.0	1239.4	1237.1	1237.1	1234.9	1223.6	1221.3	1222.5	1225.9	1222.5
10°	1239.4	1236.0	1239.4	1238.3	1237.1	1234.9	1223.6	1219.1	1219.1	1222.5	1219.1
12.5°	1233.8	1231.5	1233.8	1231.5	1231.5	1229.3	1218.0	1213.5	1214.6	1215.7	1211.3
15°	1224.8	1221.3	1224.8	1222.5	1223.6	1220.2	1207.9	1203.4	1203.4	1205.6	1197.7
17.5°	1211.3	1206.8	1211.3	1210.1	1209.0	1206.8	1195.5	1191.0	1189.8	1191.0	1185.4
20°	1195.5	1192.1	1195.5	1194.3	1194.3	1189.8	1178.6	1172.9	1172.9	1172.9	1167.3
22.5°	1170.7	1167.3	1170.7	1172.9	1172.9	1171.8	1161.7	1153.9	1151.6	1151.6	1144.8
25°	1142.6	1139.2	1142.6	1142.6	1141.4	1142.6	1139.2	1134.7	1131.3	1128.0	1121.2
27.5°	1115.5	1113.3	1115.5	1113.3	1115.5	1112.2	1111.1	1109.9	1105.5	1102.1	1093.0
30°	1088.5	1086.3	1088.5	1086.3	1084.1	1081.8	1076.2	1073.9	1078.4	1076.2	1061.5
32.5°	1054.8	1052.6	1054.8	1054.8	1052.6	1052.6	1043.5	1040.1	1041.2	1048.0	1034.5
35°	1019.8	1016.5	1019.8	1018.7	1019.8	1016.5	1010.9	1009.7	1005.3	1013.1	1003.0
37.5°	979.4	976.0	979.4	979.4	979.4	981.6	977.1	973.8	966.9	977.1	969.2
40°	937.7	933.2	937.7	936.6	937.7	939.9	937.7	935.4	928.7	936.6	929.8
42.5°	890.4	889.3	890.4	891.5	891.5	896.0	899.5	894.9	892.6	887.0	891.5
45°	839.7	837.5	839.7	842.0	843.1	845.4	855.5	855.5	852.2	843.1	849.9
47.5°	785.7	780.1	785.7	792.5	792.5	795.9	806.0	813.9	808.2	797.0	800.4
50°	728.3	729.5	728.3	732.8	732.8	745.2	753.1	761.0	766.6	753.1	737.3
52.5°	672.1	670.9	672.1	675.4	679.9	685.5	699.1	706.9	715.9	708.1	683.3
55°	615.7	618.0	615.7	616.8	619.1	622.5	642.7	650.7	667.5	657.4	631.5
57.5°	559.5	556.1	559.5	561.7	562.8	566.2	583.1	597.8	607.9	609.0	577.5
60°	494.2	489.6	494.2	504.3	506.6	508.8	524.6	538.1	547.1	550.5	517.8
62.5°	436.7	428.9	436.7	443.6	448.1	453.7	464.9	485.2	493.1	494.2	448.1
65°	376.0	372.6	376.0	389.4	390.6	397.4	409.7	424.4	441.3	439.0	372.6
67.5°	320.9	320.9	320.9	329.8	336.5	339.9	355.7	362.4	383.8	386.1	310.7
70°	270.2	269.1	270.2	276.9	281.4	289.3	303.9	311.8	328.7	334.3	252.2
72.5°	221.8	220.7	221.8	227.4	231.9	238.6	251.0	260.0	274.7	281.4	195.9
75°	179.0	176.7	179.0	183.5	182.3	191.4	201.5	210.5	224.0	228.5	145.2
77.5°	137.3	137.3	137.3	141.9	141.9	150.8	155.3	166.6	174.5	181.2	106.9
80°	102.4	101.3	102.4	103.6	103.6	108.0	116.0	123.8	130.6	130.6	73.2
82.5°	72.1	69.8	72.1	72.1	72.1	74.3	78.8	81.0	85.5	88.9	46.2
85°	45.0	45.0	45.0	46.2	45.0	47.3	48.4	50.7	50.7	48.4	28.1
87.5°	29.3	28.1	29.3	28.1	28.1	27.0	27.0	27.0	25.9	24.8	15.8
90°	13.5	13.5	13.5	13.5	13.5	18.0	23.9	26.9	23.2	15.6	9.9
92.5°	53.9	43.2	53.9	64.7	67.3	95.4	132.9	151.7	133.2	96.2	68.4
95°	188.0	155.6	188.0	220.5	228.6	300.2	395.6	443.3	374.4	236.6	133.3
97.5°	450.5	388.8	450.5	512.2	527.6	572.9	633.2	663.4	548.5	318.7	146.4
100°	649.1	575.5	649.1	722.6	741.0	737.7	733.3	731.1	603.6	348.6	157.4
102.5°	844.4	781.5	844.4	907.4	923.1	865.5	788.7	750.3	620.9	362.4	168.4
105°	1093.5	1059.6	1093.5	1127.4	1135.8	1006.6	834.3	748.1	622.9	372.5	184.6
107.5°	1256.6	1264.8	1256.6	1248.4	1246.4	1066.1	825.8	705.5	595.1	374.4	208.7
110°	1318.8	1354.1	1318.8	1283.5	1274.7	1073.2	804.5	670.1	570.6	371.5	222.2



TEST NUMBER: P935270

CATALOG NUMBER: SQ4-FA-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1324.3	1378.5	1324.3	1270.2	1256.6	1050.3	775.4	637.9	549.1	371.6	238.5
115°	1289.2	1364.4	1289.2	1214.1	1195.4	996.7	731.8	599.3	524.6	375.1	262.9
117.5°	1214.8	1298.1	1214.8	1131.5	1110.7	931.3	692.2	572.7	509.2	382.0	286.7
120°	1154.8	1235.7	1154.8	1073.9	1053.6	889.7	671.3	562.1	504.0	387.7	300.5
122.5°	1096.4	1176.2	1096.4	1016.4	996.5	848.9	652.2	553.9	501.2	395.8	316.9
125°	1012.9	1086.6	1012.9	939.4	921.0	795.7	628.6	545.0	498.9	406.8	337.7
127.5°	938.1	1000.1	938.1	875.9	860.4	752.8	609.4	537.6	497.7	417.8	357.9
130°	893.8	951.2	893.8	836.5	822.2	726.4	598.7	534.8	498.5	425.8	371.4
132.5°	853.7	905.1	853.7	802.4	789.5	703.8	589.4	532.2	498.9	432.3	382.4
135°	798.8	843.1	798.8	754.5	743.5	671.6	576.0	528.1	498.5	439.5	395.2
137.5°	754.8	791.0	754.8	718.5	709.5	648.7	567.8	527.3	501.6	450.0	411.4
140°	724.5	758.4	724.5	690.6	682.2	629.7	559.8	524.8	502.1	456.6	422.4
142.5°	699.5	728.6	699.5	670.4	663.0	616.9	555.5	524.8	503.9	462.0	430.6
145°	661.9	684.0	661.9	639.9	634.3	596.7	546.5	521.3	504.0	469.1	443.0
147.5°	633.1	651.4	633.1	614.9	610.3	580.6	541.1	521.3	507.4	479.5	458.5
150°	614.9	629.7	614.9	600.1	596.4	571.4	538.0	521.3	509.2	485.0	466.7
152.5°	599.4	610.6	599.4	588.2	585.4	564.0	535.6	521.3	510.3	488.5	472.0
155°	581.6	589.0	581.6	574.2	572.3	555.3	532.7	521.3	513.0	496.3	483.8
157.5°	567.5	572.7	567.5	562.2	561.0	547.8	530.1	521.3	515.5	504.0	495.4
160°	559.1	562.1	559.1	556.1	555.3	544.0	528.9	521.3	516.7	507.6	500.7
162.5°	553.5	556.4	553.5	550.6	550.0	540.4	527.7	521.3	518.0	511.4	506.4
165°	545.6	548.6	545.6	542.6	541.9	535.1	525.9	521.3	519.8	516.8	514.5
167.5°	539.8	541.1	539.8	538.6	538.3	533.8	527.8	524.8	523.6	521.1	519.2
170°	538.3	538.3	538.3	538.3	538.3	533.8	527.8	524.8	524.7	524.6	524.5
172.5°	534.1	533.0	534.1	535.2	535.5	531.9	527.2	524.8	524.8	524.8	524.8
175°	531.6	531.6	531.6	531.6	531.6	529.3	526.4	524.8	525.5	527.0	528.1
177.5°	529.3	528.1	529.3	530.5	530.9	529.1	526.7	525.5	526.1	527.2	528.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935270

CATALOG NUMBER: SQ4-FA-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1206.8	1200.0	1200.0	1188.7	1184.2	1180.9	1175.2	1158.4	1153.9	1149.3	1156.1
5°	1216.9	1204.5	1195.5	1175.2	1158.4	1151.6	1130.2	1089.7	1062.6	1042.4	1031.2
7.5°	1219.1	1203.4	1186.5	1155.0	1114.4	1096.4	1031.2	956.9	936.6	918.5	907.3
10°	1216.9	1198.8	1175.2	1128.0	1032.3	1000.8	935.4	887.0	874.7	871.3	874.7
12.5°	1209.0	1192.1	1159.5	1080.7	946.7	925.4	887.0	858.9	856.7	862.3	892.6
15°	1195.5	1179.8	1141.4	1017.6	899.5	883.7	856.7	846.5	858.9	898.3	989.5
17.5°	1182.0	1164.0	1116.7	955.7	863.4	852.2	833.0	853.3	923.1	976.0	1006.4
20°	1164.0	1142.6	1088.5	910.7	837.5	827.4	818.3	909.6	962.5	981.6	998.5
22.5°	1142.6	1120.0	1050.3	879.2	810.5	802.6	808.2	941.1	962.5	976.0	990.6
25°	1114.4	1095.3	1005.3	854.4	789.1	780.1	801.5	937.7	950.1	953.5	982.7
27.5°	1088.5	1063.8	958.0	831.9	763.2	759.8	807.1	923.1	932.1	935.4	966.9
30°	1057.0	1019.8	905.1	808.2	736.2	735.1	808.2	905.1	902.8	911.8	943.3
32.5°	1024.4	954.6	845.4	779.0	710.3	709.2	800.4	878.1	875.8	888.2	911.8
35°	994.0	904.0	764.3	745.2	677.7	678.8	781.2	846.5	847.7	858.9	873.6
37.5°	962.5	860.0	675.4	708.1	646.2	646.2	755.3	817.2	815.0	818.3	838.6
40°	925.4	791.3	596.7	659.6	616.8	613.5	723.9	785.7	777.9	776.8	804.9
42.5°	885.9	715.9	538.1	595.5	583.1	578.6	685.5	747.5	732.8	736.2	772.3
45°	843.1	695.7	493.1	503.2	548.2	544.9	643.9	703.6	693.4	702.5	739.6
47.5°	800.4	655.2	478.4	417.7	511.0	509.9	597.8	660.8	655.2	664.1	703.6
50°	741.8	610.1	477.3	358.0	469.5	473.9	542.6	619.1	619.1	627.0	668.6
52.5°	666.4	555.0	433.4	324.2	421.0	434.5	494.2	583.1	585.3	593.2	630.4
55°	597.8	497.6	401.9	298.3	363.6	392.9	446.9	546.0	550.5	558.3	592.1
57.5°	534.7	414.2	395.2	268.0	310.7	338.8	405.2	509.9	512.2	519.0	551.6
60°	467.2	299.4	362.4	235.2	264.5	285.9	367.0	467.2	475.1	479.5	507.7
62.5°	390.6	217.3	328.7	212.7	242.1	246.6	335.4	426.6	436.7	440.1	457.0
65°	278.0	182.3	279.2	193.7	218.4	219.5	301.7	385.0	394.0	399.6	412.0
67.5°	188.0	148.6	212.7	175.6	200.4	201.5	269.1	336.5	349.0	353.5	361.3
70°	130.6	99.1	157.6	156.5	180.1	182.3	234.1	292.7	303.9	307.3	311.8
72.5°	95.7	79.9	130.6	140.8	158.7	160.9	198.1	243.2	254.4	257.8	260.0
75°	73.2	84.4	105.8	122.7	135.0	136.2	162.1	198.1	206.0	208.2	209.3
77.5°	58.5	78.8	77.7	99.1	110.3	108.0	127.2	153.1	159.8	159.8	159.8
80°	43.9	61.9	58.5	70.9	81.0	78.8	91.2	109.2	111.4	113.7	112.5
82.5°	32.6	39.4	39.4	45.0	54.0	51.8	60.7	70.9	70.9	70.9	73.2
85°	20.3	22.5	18.0	23.6	30.4	29.3	33.7	38.3	39.4	39.4	37.1
87.5°	12.4	10.1	5.6	9.0	13.5	13.5	15.8	16.9	15.8	15.8	15.8
90°	9.2	6.4	3.6	6.4	9.2	9.9	15.6	23.2	26.9	23.9	18.0
92.5°	62.4	38.3	14.1	38.3	62.4	68.4	96.2	133.2	151.7	132.9	95.4
95°	122.3	78.1	34.0	78.1	122.3	133.3	236.6	374.4	443.3	395.6	300.2
97.5°	136.7	97.7	58.8	97.7	136.7	146.4	318.7	548.5	663.4	633.2	572.9
100°	148.5	113.2	78.0	113.2	148.5	157.4	348.6	603.6	731.1	733.3	737.7
102.5°	160.1	127.2	94.2	127.2	160.1	168.4	362.4	620.9	750.3	788.7	865.5
105°	177.6	149.8	121.9	149.8	177.6	184.6	372.5	622.9	748.1	834.3	1006.6
107.5°	202.3	176.3	150.3	176.3	202.3	208.7	374.4	595.1	705.5	825.8	1066.1
110°	216.3	192.9	169.4	192.9	216.3	222.2	371.5	570.6	670.1	804.5	1073.2



TEST NUMBER: P935270

CATALOG NUMBER: SQ4-FA-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	232.9	210.5	188.2	210.5	232.9	238.5	371.6	549.1	637.9	775.4	1050.3
115°	257.7	237.1	216.5	237.1	257.7	262.9	375.1	524.6	599.3	731.8	996.7
117.5°	282.0	263.3	244.5	263.3	282.0	286.7	382.0	509.2	572.7	692.2	931.3
120°	296.1	278.4	260.8	278.4	296.1	300.5	387.7	504.0	562.1	671.3	889.7
122.5°	312.4	294.6	276.8	294.6	312.4	316.9	395.8	501.2	553.9	652.2	848.9
125°	333.6	317.5	301.3	317.5	333.6	337.7	406.8	498.9	545.0	628.6	795.7
127.5°	353.8	337.4	321.0	337.4	353.8	357.9	417.8	497.7	537.6	609.4	752.8
130°	367.0	349.3	331.7	349.3	367.0	371.4	425.8	498.5	534.8	598.7	726.4
132.5°	377.9	360.3	342.7	360.3	377.9	382.4	432.3	498.9	532.2	589.4	703.8
135°	391.2	375.1	359.0	375.1	391.2	395.2	439.5	498.5	528.1	576.0	671.6
137.5°	407.4	391.6	375.6	391.6	407.4	411.4	450.0	501.6	527.3	567.8	648.7
140°	418.8	404.1	389.4	404.1	418.8	422.4	456.6	502.1	524.8	559.8	629.7
142.5°	427.2	413.6	400.1	413.6	427.2	430.6	462.0	503.9	524.8	555.5	616.9
145°	440.0	428.2	416.4	428.2	440.0	443.0	469.1	504.0	521.3	546.5	596.7
147.5°	455.6	444.2	432.7	444.2	455.6	458.5	479.5	507.4	521.3	541.1	580.6
150°	464.1	453.7	443.3	453.7	464.1	466.7	485.0	509.2	521.3	538.0	571.4
152.5°	470.0	462.1	454.3	462.1	470.0	472.0	488.5	510.3	521.3	535.6	564.0
155°	482.3	476.4	470.6	476.4	482.3	483.8	496.3	513.0	521.3	532.7	555.3
157.5°	494.0	488.4	482.7	488.4	494.0	495.4	504.0	515.5	521.3	530.1	547.8
160°	499.6	495.3	490.8	495.3	499.6	500.7	507.6	516.7	521.3	528.9	544.0
162.5°	505.6	502.3	498.9	502.3	505.6	506.4	511.4	518.0	521.3	527.7	540.4
165°	513.8	510.8	507.8	510.8	513.8	514.5	516.8	519.8	521.3	525.9	535.1
167.5°	518.9	517.4	516.0	517.4	518.9	519.2	521.1	523.6	524.8	527.8	533.8
170°	524.2	522.7	521.3	522.7	524.2	524.5	524.6	524.7	524.8	527.8	533.8
172.5°	524.7	524.5	524.2	524.5	524.7	524.8	524.8	524.8	524.8	527.2	531.9
175°	528.1	528.1	528.1	528.1	528.1	528.1	527.0	525.5	524.8	526.4	529.3
177.5°	528.1	528.1	528.1	528.1	528.1	528.1	527.2	526.1	525.5	526.7	529.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935270
 CATALOG NUMBER: SQ4-FA-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1148.2	1144.8	1149.3	1136.9	1149.3	1144.8	1148.2	1156.1	1149.3	1153.9	1158.4
5°	1007.5	1001.9	983.9	969.2	983.9	1001.9	1007.5	1031.2	1042.4	1062.6	1089.7
7.5°	900.6	896.0	891.5	882.5	891.5	896.0	900.6	907.3	918.5	936.6	956.9
10°	876.9	878.1	884.8	883.7	884.8	878.1	876.9	874.7	871.3	874.7	887.0
12.5°	937.7	947.8	985.0	982.7	985.0	947.8	937.7	892.6	862.3	856.7	858.9
15°	1007.5	1010.9	1018.7	1019.8	1018.7	1010.9	1007.5	989.5	898.3	858.9	846.5
17.5°	1014.2	1015.4	1021.0	1021.0	1021.0	1015.4	1014.2	1006.4	976.0	923.1	853.3
20°	1008.6	1010.9	1022.1	1024.4	1022.1	1010.9	1008.6	998.5	981.6	962.5	909.6
22.5°	1006.4	1010.9	1019.8	1018.7	1019.8	1010.9	1006.4	990.6	976.0	962.5	941.1
25°	995.1	995.1	996.2	997.4	996.2	995.1	995.1	982.7	953.5	950.1	937.7
27.5°	971.5	973.8	980.5	979.4	980.5	973.8	971.5	966.9	935.4	932.1	923.1
30°	950.1	947.8	942.2	937.7	942.2	947.8	950.1	943.3	911.8	902.8	905.1
32.5°	914.0	908.4	902.8	899.5	902.8	908.4	914.0	911.8	888.2	875.8	878.1
35°	871.3	872.4	871.3	867.9	871.3	872.4	871.3	873.6	858.9	847.7	846.5
37.5°	840.9	843.1	842.0	837.5	842.0	843.1	840.9	838.6	818.3	815.0	817.2
40°	809.4	810.5	809.4	806.0	809.4	810.5	809.4	804.9	776.8	777.9	785.7
42.5°	779.0	777.9	774.5	772.3	774.5	777.9	779.0	772.3	736.2	732.8	747.5
45°	744.1	745.2	738.4	735.1	738.4	745.2	744.1	739.6	702.5	693.4	703.6
47.5°	709.2	709.2	703.6	700.2	703.6	709.2	709.2	703.6	664.1	655.2	660.8
50°	672.1	670.9	663.0	661.9	663.0	670.9	672.1	668.6	627.0	619.1	619.1
52.5°	629.3	629.3	630.4	632.6	630.4	629.3	629.3	630.4	593.2	585.3	583.1
55°	592.1	593.2	601.1	603.4	601.1	593.2	592.1	592.1	558.3	550.5	546.0
57.5°	553.8	553.8	559.5	559.5	559.5	553.8	553.8	551.6	519.0	512.2	509.9
60°	509.9	512.2	516.7	515.5	516.7	512.2	509.9	507.7	479.5	475.1	467.2
62.5°	463.7	466.0	467.2	464.9	467.2	466.0	463.7	457.0	440.1	436.7	426.6
65°	415.4	417.7	418.8	416.5	418.8	417.7	415.4	412.0	399.6	394.0	385.0
67.5°	365.8	364.7	363.6	368.1	363.6	364.7	365.8	361.3	353.5	349.0	336.5
70°	315.2	315.2	314.0	316.3	314.0	315.2	315.2	311.8	307.3	303.9	292.7
72.5°	261.1	260.0	264.5	261.1	264.5	260.0	261.1	260.0	257.8	254.4	243.2
75°	208.2	210.5	208.2	211.6	208.2	210.5	208.2	209.3	208.2	206.0	198.1
77.5°	158.7	160.9	158.7	158.7	158.7	160.9	158.7	159.8	159.8	159.8	153.1
80°	112.5	111.4	111.4	110.3	111.4	111.4	112.5	112.5	113.7	111.4	109.2
82.5°	72.1	70.9	70.9	73.2	70.9	70.9	72.1	73.2	70.9	70.9	70.9
85°	39.4	40.6	38.3	38.3	38.3	40.6	39.4	37.1	39.4	39.4	38.3
87.5°	14.7	13.5	13.5	13.5	13.5	13.5	14.7	15.8	15.8	15.8	16.9
90°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	23.9	26.9	23.2
92.5°	67.3	64.7	53.9	43.2	53.9	64.7	67.3	95.4	132.9	151.7	133.2
95°	228.6	220.5	188.0	155.6	188.0	220.5	228.6	300.2	395.6	443.3	374.4
97.5°	527.6	512.2	450.5	388.8	450.5	512.2	527.6	572.9	633.2	663.4	548.5
100°	741.0	722.6	649.1	575.5	649.1	722.6	741.0	737.7	733.3	731.1	603.6
102.5°	923.1	907.4	844.4	781.5	844.4	907.4	923.1	865.5	788.7	750.3	620.9
105°	1135.8	1127.4	1093.5	1059.6	1093.5	1127.4	1135.8	1006.6	834.3	748.1	622.9
107.5°	1246.4	1248.4	1256.6	1264.8	1256.6	1248.4	1246.4	1066.1	825.8	705.5	595.1
110°	1274.7	1283.5	1318.8	1354.1	1318.8	1283.5	1274.7	1073.2	804.5	670.1	570.6



TEST NUMBER: P935270

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1256.6	1270.2	1324.3	1378.5	1324.3	1270.2	1256.6	1050.3	775.4	637.9	549.1
115°	1195.4	1214.1	1289.2	1364.4	1289.2	1214.1	1195.4	996.7	731.8	599.3	524.6
117.5°	1110.7	1131.5	1214.8	1298.1	1214.8	1131.5	1110.7	931.3	692.2	572.7	509.2
120°	1053.6	1073.9	1154.8	1235.7	1154.8	1073.9	1053.6	889.7	671.3	562.1	504.0
122.5°	996.5	1016.4	1096.4	1176.2	1096.4	1016.4	996.5	848.9	652.2	553.9	501.2
125°	921.0	939.4	1012.9	1086.6	1012.9	939.4	921.0	795.7	628.6	545.0	498.9
127.5°	860.4	875.9	938.1	1000.1	938.1	875.9	860.4	752.8	609.4	537.6	497.7
130°	822.2	836.5	893.8	951.2	893.8	836.5	822.2	726.4	598.7	534.8	498.5
132.5°	789.5	802.4	853.7	905.1	853.7	802.4	789.5	703.8	589.4	532.2	498.9
135°	743.5	754.5	798.8	843.1	798.8	754.5	743.5	671.6	576.0	528.1	498.5
137.5°	709.5	718.5	754.8	791.0	754.8	718.5	709.5	648.7	567.8	527.3	501.6
140°	682.2	690.6	724.5	758.4	724.5	690.6	682.2	629.7	559.8	524.8	502.1
142.5°	663.0	670.4	699.5	728.6	699.5	670.4	663.0	616.9	555.5	524.8	503.9
145°	634.3	639.9	661.9	684.0	661.9	639.9	634.3	596.7	546.5	521.3	504.0
147.5°	610.3	614.9	633.1	651.4	633.1	614.9	610.3	580.6	541.1	521.3	507.4
150°	596.4	600.1	614.9	629.7	614.9	600.1	596.4	571.4	538.0	521.3	509.2
152.5°	585.4	588.2	599.4	610.6	599.4	588.2	585.4	564.0	535.6	521.3	510.3
155°	572.3	574.2	581.6	589.0	581.6	574.2	572.3	555.3	532.7	521.3	513.0
157.5°	561.0	562.2	567.5	572.7	567.5	562.2	561.0	547.8	530.1	521.3	515.5
160°	555.3	556.1	559.1	562.1	559.1	556.1	555.3	544.0	528.9	521.3	516.7
162.5°	550.0	550.6	553.5	556.4	553.5	550.6	550.0	540.4	527.7	521.3	518.0
165°	541.9	542.6	545.6	548.6	545.6	542.6	541.9	535.1	525.9	521.3	519.8
167.5°	538.3	538.6	539.8	541.1	539.8	538.6	538.3	533.8	527.8	524.8	523.6
170°	538.3	538.3	538.3	538.3	538.3	538.3	538.3	533.8	527.8	524.8	524.7
172.5°	535.5	535.2	534.1	533.0	534.1	535.2	535.5	531.9	527.2	524.8	524.8
175°	531.6	531.6	531.6	531.6	531.6	531.6	531.6	529.3	526.4	524.8	525.5
177.5°	530.9	530.5	529.3	528.1	529.3	530.5	530.9	529.1	526.7	525.5	526.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1189.8	1189.8	1189.8	1189.8	1189.8
2.5°	1175.2	1180.9	1184.2	1188.7	1200.0
5°	1130.2	1151.6	1158.4	1175.2	1195.5
7.5°	1031.2	1096.4	1114.4	1155.0	1186.5
10°	935.4	1000.8	1032.3	1128.0	1175.2
12.5°	887.0	925.4	946.7	1080.7	1159.5
15°	856.7	883.7	899.5	1017.6	1141.4
17.5°	833.0	852.2	863.4	955.7	1116.7
20°	818.3	827.4	837.5	910.7	1088.5
22.5°	808.2	802.6	810.5	879.2	1050.3
25°	801.5	780.1	789.1	854.4	1005.3
27.5°	807.1	759.8	763.2	831.9	958.0
30°	808.2	735.1	736.2	808.2	905.1
32.5°	800.4	709.2	710.3	779.0	845.4
35°	781.2	678.8	677.7	745.2	764.3
37.5°	755.3	646.2	646.2	708.1	675.4
40°	723.9	613.5	616.8	659.6	596.7
42.5°	685.5	578.6	583.1	595.5	538.1
45°	643.9	544.9	548.2	503.2	493.1
47.5°	597.8	509.9	511.0	417.7	478.4
50°	542.6	473.9	469.5	358.0	477.3
52.5°	494.2	434.5	421.0	324.2	433.4
55°	446.9	392.9	363.6	298.3	401.9
57.5°	405.2	338.8	310.7	268.0	395.2
60°	367.0	285.9	264.5	235.2	362.4
62.5°	335.4	246.6	242.1	212.7	328.7
65°	301.7	219.5	218.4	193.7	279.2
67.5°	269.1	201.5	200.4	175.6	212.7
70°	234.1	182.3	180.1	156.5	157.6
72.5°	198.1	160.9	158.7	140.8	130.6
75°	162.1	136.2	135.0	122.7	105.8
77.5°	127.2	108.0	110.3	99.1	77.7
80°	91.2	78.8	81.0	70.9	58.5
82.5°	60.7	51.8	54.0	45.0	39.4
85°	33.7	29.3	30.4	23.6	18.0
87.5°	15.8	13.5	13.5	9.0	5.6
90°	15.6	9.9	9.2	6.4	3.6
92.5°	96.2	68.4	62.4	38.3	14.1
95°	236.6	133.3	122.3	78.1	34.0
97.5°	318.7	146.4	136.7	97.7	58.8
100°	348.6	157.4	148.5	113.2	78.0
102.5°	362.4	168.4	160.1	127.2	94.2
105°	372.5	184.6	177.6	149.8	121.9
107.5°	374.4	208.7	202.3	176.3	150.3
110°	371.5	222.2	216.3	192.9	169.4



TEST NUMBER: P935270
 CATALOG NUMBER: SQ4-FA-100U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	371.6	238.5	232.9	210.5	188.2
115°	375.1	262.9	257.7	237.1	216.5
117.5°	382.0	286.7	282.0	263.3	244.5
120°	387.7	300.5	296.1	278.4	260.8
122.5°	395.8	316.9	312.4	294.6	276.8
125°	406.8	337.7	333.6	317.5	301.3
127.5°	417.8	357.9	353.8	337.4	321.0
130°	425.8	371.4	367.0	349.3	331.7
132.5°	432.3	382.4	377.9	360.3	342.7
135°	439.5	395.2	391.2	375.1	359.0
137.5°	450.0	411.4	407.4	391.6	375.6
140°	456.6	422.4	418.8	404.1	389.4
142.5°	462.0	430.6	427.2	413.6	400.1
145°	469.1	443.0	440.0	428.2	416.4
147.5°	479.5	458.5	455.6	444.2	432.7
150°	485.0	466.7	464.1	453.7	443.3
152.5°	488.5	472.0	470.0	462.1	454.3
155°	496.3	483.8	482.3	476.4	470.6
157.5°	504.0	495.4	494.0	488.4	482.7
160°	507.6	500.7	499.6	495.3	490.8
162.5°	511.4	506.4	505.6	502.3	498.9
165°	516.8	514.5	513.8	510.8	507.8
167.5°	521.1	519.2	518.9	517.4	516.0
170°	524.6	524.5	524.2	522.7	521.3
172.5°	524.8	524.8	524.7	524.5	524.2
175°	527.0	528.1	528.1	528.1	528.1
177.5°	527.2	528.1	528.1	528.1	528.1
180°	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935270
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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	12.89	13.73	13.87	14.72	16.03	15.69	16.53	16.67	17.52	18.83
	3H	13.37	14.12	14.36	15.12	16.45	17.03	17.78	18.02	18.78	20.11
	4H	13.56	14.27	14.56	15.28	16.61	17.46	18.17	18.47	19.18	20.52
	6H	13.68	14.33	14.69	15.34	16.69	17.74	18.39	18.75	19.40	20.75
	8H	13.68	14.30	14.70	15.33	16.67	17.81	18.43	18.83	19.46	20.80
	12H	13.65	14.24	14.67	15.26	16.63	17.84	18.43	18.87	19.45	20.82
4H	2H	13.92	14.63	14.93	15.63	16.97	16.10	16.81	17.11	17.82	19.15
	3H	14.94	15.53	15.96	16.57	17.92	17.59	18.19	18.61	19.22	20.57
	4H	15.22	15.76	16.24	16.78	18.16	18.11	18.66	19.14	19.68	21.06
	6H	15.34	15.81	16.38	16.86	18.23	18.47	18.94	19.51	19.99	21.36
	8H	15.35	15.78	16.38	16.82	18.21	18.57	19.01	19.61	20.05	21.43
	12H	15.31	15.70	16.37	16.76	18.15	18.62	19.02	19.68	20.07	21.46
8H	4H	15.66	16.10	16.70	17.14	18.53	18.24	18.67	19.28	19.71	21.10
	6H	15.92	16.28	16.98	17.37	18.75	18.66	19.02	19.73	20.11	21.49
	8H	15.97	16.28	17.03	17.35	18.75	18.81	19.13	19.88	20.20	21.60
	12H	15.95	16.23	17.02	17.29	18.73	18.90	19.18	19.98	20.25	21.69
12H	4H	15.67	16.06	16.72	17.12	18.51	18.20	18.59	19.26	19.65	21.04
	6H	15.98	16.30	17.05	17.37	18.77	18.66	18.98	19.73	20.05	21.45
	8H	16.05	16.33	17.12	17.39	18.83	18.82	19.10	19.89	20.16	21.60