

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: P935118

Luminaire Tested: SQ4-FA-100U-075D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935118
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

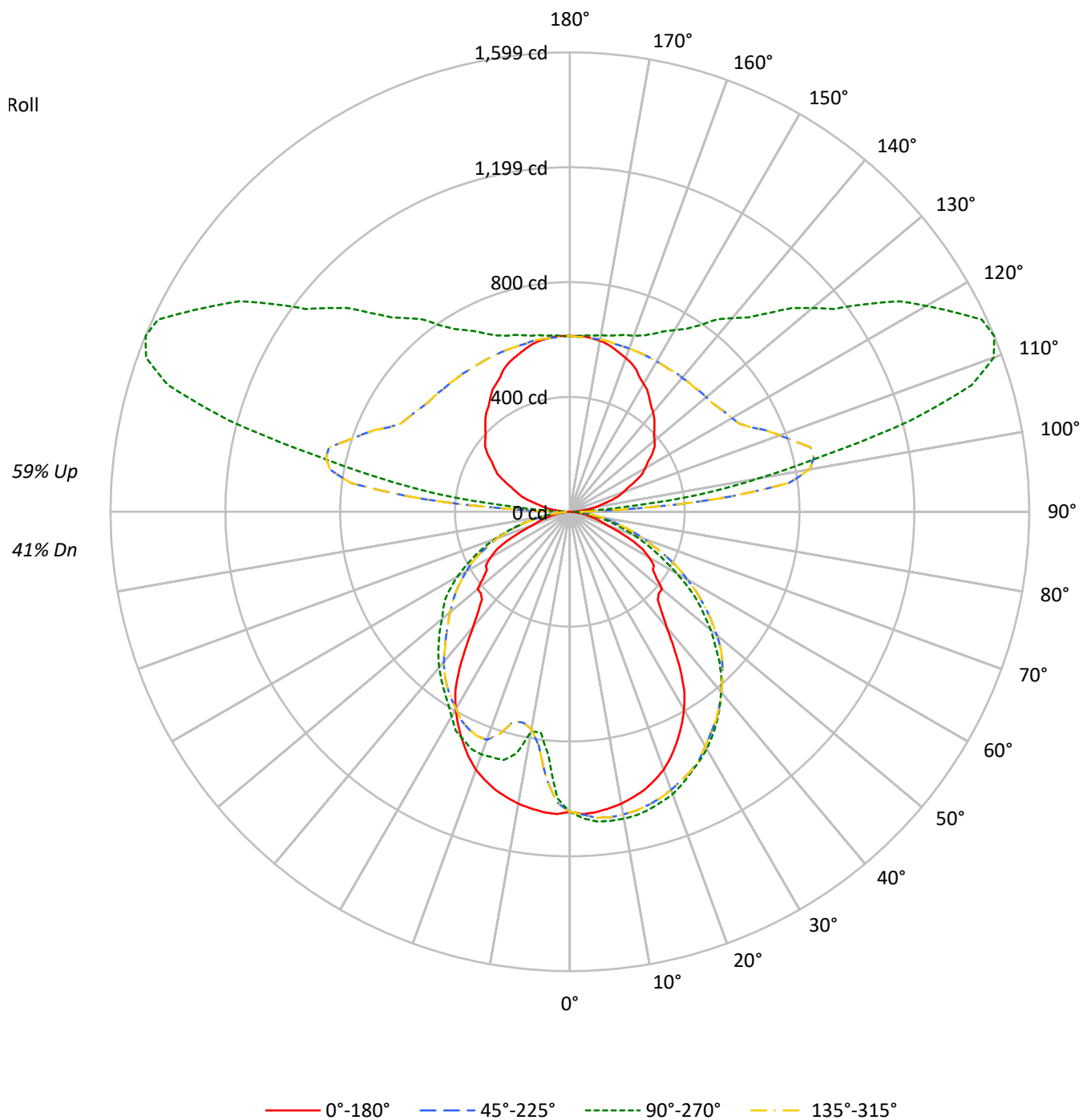
Lumens per Lamp: N/A
Luminaire Lumens: 6679.8 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 49.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	34	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	29	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	25	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	22	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	19	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	13	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9691	9691	9691	9691
5°	9753	9784	9753	7693
10°	9677	9637	9677	6890
15°	9561	9429	9561	7872
20°	9350	9181	9350	7889
25°	8930	8820	8930	7722
30°	8392	8520	8392	7355
35°	7470	8142	7470	6951
40°	6213	7696	6213	6647
45°	5541	7174	5541	6297
50°	5874	6551	5874	5944
55°	5511	5881	5511	5742
60°	5658	4995	5658	5259
65°	5106	4128	5106	4616
70°	3511	3289	3511	3867
75°	3046	2432	3046	2911
80°	2406	1607	2406	1750
85°	1308	851	1308	724

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 8509 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.4
10°-20°	267.7	4.0
20°-30°	413.8	6.2
30°-40°	494.0	7.4
40°-50°	496.9	7.4
50°-60°	432.4	6.5
60°-70°	306.5	4.6
70°-80°	162.2	2.4
80°-90°	42.7	0.6
90°-100°	298.5	4.5
100°-110°	784.7	11.7
110°-120°	813.7	12.2
120°-130°	652.6	9.8
130°-140°	512.1	7.7
140°-150°	393.1	5.9
150°-160°	283.1	4.2
160°-170°	173.2	2.6
170°-180°	58.5	0.9
0°-30°	775.8	11.6
0°-40°	1269.7	19.0
0°-60°	2199.0	32.9
0°-90°	2710.4	40.6
90°-120°	1896.8	28.4
90°-150°	3454.6	51.7
90°-180°	3969.0	59.4
0°-180°	6679.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1044	1044	1044	1044	1044	
5°	1049	1082	1049	851	1049	100
15°	1002	1072	1002	895	1002	282
25°	882	1000	882	876	882	405
35°	671	892	671	762	671	415
45°	433	735	433	645	433	347
55°	353	542	353	530	353	324
65°	245	327	245	366	245	234
75°	93	155	93	186	93	98
85°	16	40	16	34	16	21
90°	4	16	4	16	4	4
95°	39	180	39	180	39	44
105°	141	1229	141	1229	141	150
115°	251	1582	251	1582	251	248
125°	349	1260	349	1260	349	310
135°	416	978	416	978	416	322
145°	483	793	483	793	483	303
155°	546	683	546	683	546	251
165°	589	636	589	636	589	166
175°	612	616	612	616	612	58
180°	612	612	612	612	612	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1053.3	1053.3	1059.3	1061.3	1061.3	1058.3	1055.4	1058.3	1067.2	1070.2	1069.2
5°	1049.4	1057.4	1068.2	1070.2	1072.2	1071.2	1069.2	1071.2	1081.1	1083.0	1084.0
7.5°	1041.5	1056.4	1070.2	1073.2	1076.1	1073.2	1072.2	1074.2	1084.0	1086.0	1086.0
10°	1031.6	1052.3	1068.2	1070.2	1073.2	1070.2	1070.2	1074.2	1084.0	1086.0	1087.0
12.5°	1017.7	1046.4	1061.3	1063.3	1067.2	1066.2	1065.3	1069.2	1079.1	1081.1	1081.1
15°	1001.9	1035.5	1049.4	1051.3	1058.3	1056.4	1056.4	1060.3	1071.2	1074.2	1073.2
17.5°	980.2	1021.7	1037.5	1040.5	1045.4	1044.4	1045.4	1049.4	1059.3	1061.3	1062.3
20°	955.5	1002.9	1021.7	1024.7	1029.6	1029.6	1029.6	1034.5	1044.4	1048.4	1048.4
22.5°	921.9	983.2	1002.9	1004.9	1010.8	1010.8	1012.8	1019.7	1028.6	1029.6	1029.6
25°	882.4	961.4	978.2	984.1	990.1	993.0	996.0	1000.0	1002.9	1001.9	1002.9
27.5°	840.9	933.8	955.5	959.4	967.4	970.3	974.3	975.3	976.2	979.2	977.2
30°	794.5	895.2	927.8	931.8	944.6	946.6	942.7	944.6	949.6	951.5	953.5
32.5°	742.1	837.9	899.2	908.1	919.9	914.0	913.0	916.0	923.9	923.9	925.9
35°	671.0	793.5	872.5	880.4	889.3	882.4	886.3	887.3	892.3	895.2	894.2
37.5°	592.9	754.9	844.8	850.8	857.7	848.8	854.7	857.7	861.6	859.7	859.7
40°	523.7	694.7	812.2	816.2	822.1	815.2	821.1	823.1	825.1	823.1	822.1
42.5°	472.4	628.5	777.7	782.6	778.6	783.6	785.6	789.5	786.5	782.6	782.6
45°	432.8	610.7	740.1	746.0	740.1	748.0	751.0	751.0	742.1	740.1	739.1
47.5°	420.0	575.1	702.6	702.6	699.6	709.5	714.4	707.5	698.6	695.7	695.7
50°	419.0	535.6	651.2	647.2	661.1	672.9	668.0	661.1	654.2	643.3	643.3
52.5°	380.5	487.2	585.0	599.8	621.6	628.5	620.6	613.6	601.8	596.9	592.9
55°	352.8	436.8	524.7	554.4	577.1	586.0	571.2	564.2	546.5	543.5	541.5
57.5°	346.8	363.7	469.4	506.9	534.6	533.6	524.7	511.9	497.1	494.1	493.1
60°	318.1	262.8	410.1	454.6	483.2	480.3	472.4	460.5	446.7	444.7	442.7
62.5°	288.5	190.7	342.8	393.3	433.8	432.8	425.9	408.1	398.3	393.3	389.4
65°	245.0	160.1	244.0	327.0	385.4	387.4	372.6	359.7	348.8	342.8	341.8
67.5°	186.7	130.4	165.0	272.7	338.9	336.9	318.1	312.2	298.4	295.4	289.5
70°	138.3	86.9	114.6	221.3	293.4	288.5	273.7	266.8	253.9	247.0	243.0
72.5°	114.6	70.1	84.0	171.9	247.0	241.1	228.2	220.3	209.5	203.5	199.6
75°	92.9	74.1	64.2	127.5	200.6	196.6	184.8	176.9	168.0	160.1	161.0
77.5°	68.2	69.2	51.4	93.9	159.1	153.1	146.2	136.3	132.4	124.5	124.5
80°	51.4	54.3	38.5	64.2	114.6	114.6	108.7	101.8	94.8	90.9	90.9
82.5°	34.6	34.6	28.7	40.5	78.1	75.1	71.1	69.2	65.2	63.2	63.2
85°	15.8	19.8	17.8	24.7	42.5	44.5	44.5	42.5	41.5	39.5	40.5
87.5°	4.9	8.9	10.9	13.8	21.7	22.7	23.7	23.7	23.7	24.7	24.7
90°	4.1	7.4	10.7	11.5	18.1	26.9	31.2	27.8	20.8	15.6	15.6
92.5°	16.4	44.4	72.3	79.3	111.5	154.4	175.9	154.1	110.7	78.1	75.0
95°	39.4	90.6	141.8	154.5	274.4	434.1	514.1	458.7	348.1	265.1	255.7
97.5°	68.2	113.3	158.5	169.7	369.6	636.1	769.3	734.3	664.3	611.9	594.0
100°	90.4	131.3	172.2	182.5	404.3	700.0	847.8	850.4	855.4	859.3	837.9
102.5°	109.3	147.5	185.6	195.2	420.2	720.1	870.0	914.6	1003.7	1070.5	1052.2
105°	141.4	173.7	206.0	214.1	432.0	722.3	867.6	967.4	1167.2	1317.1	1307.3
107.5°	174.3	204.4	234.6	242.1	434.1	690.1	818.2	957.6	1236.3	1445.3	1447.7
110°	196.4	223.7	250.9	257.7	430.8	661.7	777.1	932.9	1244.5	1478.1	1488.4

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	218.2	244.1	270.0	276.5	431.0	636.8	739.7	899.2	1218.0	1457.2	1472.9
115°	251.1	275.0	298.9	304.9	434.9	608.3	695.0	848.6	1155.8	1386.2	1407.9
117.5°	283.6	305.3	327.0	332.5	443.0	590.4	664.1	802.8	1080.0	1288.0	1312.1
120°	302.4	322.9	343.3	348.5	449.5	584.4	651.8	778.4	1031.8	1221.8	1245.3
122.5°	321.0	341.7	362.3	367.4	459.0	581.2	642.3	756.3	984.4	1155.6	1178.7
125°	349.4	368.1	386.9	391.6	471.8	578.6	632.0	728.9	922.7	1068.0	1089.4
127.5°	372.3	391.2	410.3	415.1	484.5	577.1	623.4	706.6	873.0	997.8	1015.8
130°	384.6	405.1	425.5	430.7	493.8	578.1	620.2	694.3	842.4	953.4	970.0
132.5°	397.4	417.8	438.3	443.4	501.3	578.6	617.2	683.5	816.1	915.6	930.5
135°	416.3	434.9	453.6	458.2	509.6	578.1	612.4	667.9	778.8	862.1	875.0
137.5°	435.6	454.1	472.5	477.1	521.9	581.6	611.5	658.4	752.3	822.7	833.2
140°	451.6	468.6	485.6	489.9	529.5	582.2	608.6	649.1	730.2	791.1	800.9
142.5°	464.0	479.7	495.4	499.3	535.8	584.3	608.6	644.2	715.4	768.9	777.4
145°	482.8	496.6	510.2	513.7	544.0	584.4	604.6	633.7	691.9	735.6	742.0
147.5°	501.8	515.1	528.4	531.7	556.0	588.4	604.6	627.5	673.3	707.7	713.0
150°	514.1	526.1	538.2	541.2	562.4	590.5	604.6	623.9	662.6	691.6	695.8
152.5°	526.8	535.9	545.1	547.4	566.4	591.8	604.6	621.1	654.1	678.9	682.1
155°	545.8	552.5	559.3	561.0	575.5	594.9	604.6	617.7	644.0	663.6	665.8
157.5°	559.7	566.3	572.8	574.5	584.5	597.8	604.6	614.7	635.2	650.5	652.0
160°	569.2	574.3	579.4	580.6	588.7	599.2	604.6	613.4	630.8	644.0	644.9
162.5°	578.6	582.4	586.3	587.3	593.0	600.7	604.6	612.0	626.7	637.8	638.5
165°	588.8	592.3	595.8	596.7	599.3	602.8	604.6	609.9	620.5	628.4	629.3
167.5°	598.3	600.0	601.7	602.1	604.3	607.1	608.6	612.1	619.0	624.2	624.6
170°	604.6	606.1	607.8	608.2	608.3	608.5	608.6	612.1	619.0	624.2	624.2
172.5°	607.8	608.2	608.5	608.6	608.6	608.6	608.6	611.4	616.8	621.0	620.7
175°	612.4	612.4	612.4	612.4	611.1	609.4	608.6	610.4	613.8	616.4	616.4
177.5°	612.4	612.4	612.4	612.4	611.4	610.1	609.4	610.8	613.5	615.6	615.2
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1071.2	1068.2	1071.2	1069.2	1070.2	1067.2	1058.3	1055.4	1058.3	1061.3	1061.3
5°	1084.0	1082.1	1084.0	1084.0	1083.0	1081.1	1071.2	1069.2	1071.2	1072.2	1070.2
7.5°	1088.0	1085.0	1088.0	1086.0	1086.0	1084.0	1074.2	1072.2	1073.2	1076.1	1073.2
10°	1088.0	1085.0	1088.0	1087.0	1086.0	1084.0	1074.2	1070.2	1070.2	1073.2	1070.2
12.5°	1083.0	1081.1	1083.0	1081.1	1081.1	1079.1	1069.2	1065.3	1066.2	1067.2	1063.3
15°	1075.1	1072.2	1075.1	1073.2	1074.2	1071.2	1060.3	1056.4	1056.4	1058.3	1051.3
17.5°	1063.3	1059.3	1063.3	1062.3	1061.3	1059.3	1049.4	1045.4	1044.4	1045.4	1040.5
20°	1049.4	1046.4	1049.4	1048.4	1048.4	1044.4	1034.5	1029.6	1029.6	1029.6	1024.7
22.5°	1027.6	1024.7	1027.6	1029.6	1029.6	1028.6	1019.7	1012.8	1010.8	1010.8	1004.9
25°	1002.9	1000.0	1002.9	1002.9	1001.9	1002.9	1000.0	996.0	993.0	990.1	984.1
27.5°	979.2	977.2	979.2	977.2	979.2	976.2	975.3	974.3	970.3	967.4	959.4
30°	955.5	953.5	955.5	953.5	951.5	949.6	944.6	942.7	946.6	944.6	931.8
32.5°	925.9	923.9	925.9	925.9	923.9	923.9	916.0	913.0	914.0	919.9	908.1
35°	895.2	892.3	895.2	894.2	895.2	892.3	887.3	886.3	882.4	889.3	880.4
37.5°	859.7	856.7	859.7	859.7	859.7	861.6	857.7	854.7	848.8	857.7	850.8
40°	823.1	819.2	823.1	822.1	823.1	825.1	823.1	821.1	815.2	822.1	816.2
42.5°	781.6	780.6	781.6	782.6	782.6	786.5	789.5	785.6	783.6	778.6	782.6
45°	737.1	735.2	737.1	739.1	740.1	742.1	751.0	751.0	748.0	740.1	746.0
47.5°	689.7	684.8	689.7	695.7	695.7	698.6	707.5	714.4	709.5	699.6	702.6
50°	639.3	640.3	639.3	643.3	643.3	654.2	661.1	668.0	672.9	661.1	647.2
52.5°	589.9	588.9	589.9	592.9	596.9	601.8	613.6	620.6	628.5	621.6	599.8
55°	540.5	542.5	540.5	541.5	543.5	546.5	564.2	571.2	586.0	577.1	554.4
57.5°	491.1	488.2	491.1	493.1	494.1	497.1	511.9	524.7	533.6	534.6	506.9
60°	433.8	429.9	433.8	442.7	444.7	446.7	460.5	472.4	480.3	483.2	454.6
62.5°	383.4	376.5	383.4	389.4	393.3	398.3	408.1	425.9	432.8	433.8	393.3
65°	330.0	327.0	330.0	341.8	342.8	348.8	359.7	372.6	387.4	385.4	327.0
67.5°	281.6	281.6	281.6	289.5	295.4	298.4	312.2	318.1	336.9	338.9	272.7
70°	237.1	236.1	237.1	243.0	247.0	253.9	266.8	273.7	288.5	293.4	221.3
72.5°	194.6	193.6	194.6	199.6	203.5	209.5	220.3	228.2	241.1	247.0	171.9
75°	157.1	155.1	157.1	161.0	160.1	168.0	176.9	184.8	196.6	200.6	127.5
77.5°	120.5	120.5	120.5	124.5	124.5	132.4	136.3	146.2	153.1	159.1	93.9
80°	89.9	88.9	89.9	90.9	90.9	94.8	101.8	108.7	114.6	114.6	64.2
82.5°	63.2	61.3	63.2	63.2	63.2	65.2	69.2	71.1	75.1	78.1	40.5
85°	39.5	39.5	39.5	40.5	39.5	41.5	42.5	44.5	44.5	42.5	24.7
87.5°	25.7	24.7	25.7	24.7	24.7	23.7	23.7	23.7	22.7	21.7	13.8
90°	15.6	15.6	15.6	15.6	15.6	20.8	27.8	31.2	26.9	18.1	11.5
92.5°	62.5	50.1	62.5	75.0	78.1	110.7	154.1	175.9	154.4	111.5	79.3
95°	218.1	180.4	218.1	255.7	265.1	348.1	458.7	514.1	434.1	274.4	154.5
97.5°	522.4	450.8	522.4	594.0	611.9	664.3	734.3	769.3	636.1	369.6	169.7
100°	752.7	667.4	752.7	837.9	859.3	855.4	850.4	847.8	700.0	404.3	182.5
102.5°	979.2	906.2	979.2	1052.2	1070.5	1003.7	914.6	870.0	720.1	420.2	195.2
105°	1268.0	1228.8	1268.0	1307.3	1317.1	1167.2	967.4	867.6	722.3	432.0	214.1
107.5°	1457.2	1466.7	1457.2	1447.7	1445.3	1236.3	957.6	818.2	690.1	434.1	242.1
110°	1529.3	1570.2	1529.3	1488.4	1478.1	1244.5	932.9	777.1	661.7	430.8	257.7

TEST NUMBER: P935118

CATALOG NUMBER: SQ4-FA-100U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1535.7	1598.6	1535.7	1472.9	1457.2	1218.0	899.2	739.7	636.8	431.0	276.5
115°	1495.0	1582.2	1495.0	1407.9	1386.2	1155.8	848.6	695.0	608.3	434.9	304.9
117.5°	1408.7	1505.3	1408.7	1312.1	1288.0	1080.0	802.8	664.1	590.4	443.0	332.5
120°	1339.1	1433.0	1339.1	1245.3	1221.8	1031.8	778.4	651.8	584.4	449.5	348.5
122.5°	1271.4	1363.9	1271.4	1178.7	1155.6	984.4	756.3	642.3	581.2	459.0	367.4
125°	1174.6	1260.0	1174.6	1089.4	1068.0	922.7	728.9	632.0	578.6	471.8	391.6
127.5°	1087.8	1159.7	1087.8	1015.8	997.8	873.0	706.6	623.4	577.1	484.5	415.1
130°	1036.5	1103.0	1036.5	970.0	953.4	842.4	694.3	620.2	578.1	493.8	430.7
132.5°	990.0	1049.6	990.0	930.5	915.6	816.1	683.5	617.2	578.6	501.3	443.4
135°	926.2	977.6	926.2	875.0	862.1	778.8	667.9	612.4	578.1	509.6	458.2
137.5°	875.3	917.3	875.3	833.2	822.7	752.3	658.4	611.5	581.6	521.9	477.1
140°	840.2	879.4	840.2	800.9	791.1	730.2	649.1	608.6	582.2	529.5	489.9
142.5°	811.1	844.9	811.1	777.4	768.9	715.4	644.2	608.6	584.3	535.8	499.3
145°	767.6	793.2	767.6	742.0	735.6	691.9	633.7	604.6	584.4	544.0	513.7
147.5°	734.2	755.3	734.2	713.0	707.7	673.3	627.5	604.6	588.4	556.0	531.7
150°	713.0	730.2	713.0	695.8	691.6	662.6	623.9	604.6	590.5	562.4	541.2
152.5°	695.1	708.1	695.1	682.1	678.9	654.1	621.1	604.6	591.8	566.4	547.4
155°	674.4	683.0	674.4	665.8	663.6	644.0	617.7	604.6	594.9	575.5	561.0
157.5°	658.1	664.1	658.1	652.0	650.5	635.2	614.7	604.6	597.8	584.5	574.5
160°	648.3	651.8	648.3	644.9	644.0	630.8	613.4	604.6	599.2	588.7	580.6
162.5°	641.9	645.2	641.9	638.5	637.8	626.7	612.0	604.6	600.7	593.0	587.3
165°	632.7	636.2	632.7	629.3	628.4	620.5	609.9	604.6	602.8	599.3	596.7
167.5°	626.0	627.5	626.0	624.6	624.2	619.0	612.1	608.6	607.1	604.3	602.1
170°	624.2	624.2	624.2	624.2	624.2	619.0	612.1	608.6	608.5	608.3	608.2
172.5°	619.4	618.1	619.4	620.7	621.0	616.8	611.4	608.6	608.6	608.6	608.6
175°	616.4	616.4	616.4	616.4	616.4	613.8	610.4	608.6	609.4	611.1	612.4
177.5°	613.8	612.4	613.8	615.2	615.6	613.5	610.8	609.4	610.1	611.4	612.4
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4

TEST NUMBER: P935118

CATALOG NUMBER: SQ4-FA-100U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1059.3	1053.3	1053.3	1043.4	1039.5	1036.5	1031.6	1016.8	1012.8	1008.8	1014.8
5°	1068.2	1057.4	1049.4	1031.6	1016.8	1010.8	992.1	956.5	932.8	915.0	905.1
7.5°	1070.2	1056.4	1041.5	1013.8	978.2	962.4	905.1	839.9	822.1	806.3	796.4
10°	1068.2	1052.3	1031.6	990.1	906.1	878.4	821.1	778.6	767.8	764.8	767.8
12.5°	1061.3	1046.4	1017.7	948.6	831.0	812.2	778.6	753.9	752.0	756.9	783.6
15°	1049.4	1035.5	1001.9	893.3	789.5	775.7	752.0	743.1	753.9	788.5	868.6
17.5°	1037.5	1021.7	980.2	838.9	757.9	748.0	731.2	749.0	810.3	856.7	883.4
20°	1021.7	1002.9	955.5	799.4	735.2	726.3	718.4	798.4	844.8	861.6	876.5
22.5°	1002.9	983.2	921.9	771.7	711.5	704.5	709.5	826.1	844.8	856.7	869.5
25°	978.2	961.4	882.4	750.0	692.7	684.8	703.6	823.1	834.0	836.9	862.6
27.5°	955.5	933.8	840.9	730.2	670.0	667.0	708.5	810.3	818.2	821.1	848.8
30°	927.8	895.2	794.5	709.5	646.3	645.3	709.5	794.5	792.5	800.4	828.0
32.5°	899.2	837.9	742.1	683.8	623.5	622.5	702.6	770.7	768.8	779.6	800.4
35°	872.5	793.5	671.0	654.2	594.9	595.9	685.8	743.1	744.1	753.9	766.8
37.5°	844.8	754.9	592.9	621.6	567.2	567.2	663.0	717.4	715.4	718.4	736.2
40°	812.2	694.7	523.7	579.1	541.5	538.6	635.4	689.7	682.8	681.8	706.5
42.5°	777.7	628.5	472.4	522.8	511.9	507.9	601.8	656.1	643.3	646.3	677.9
45°	740.1	610.7	432.8	441.7	481.3	478.3	565.2	617.6	608.7	616.6	649.2
47.5°	702.6	575.1	420.0	366.6	448.7	447.7	524.7	580.1	575.1	583.0	617.6
50°	651.2	535.6	419.0	314.2	412.1	416.0	476.3	543.5	543.5	550.4	587.0
52.5°	585.0	487.2	380.5	284.5	369.6	381.5	433.8	511.9	513.9	520.8	553.4
55°	524.7	436.8	352.8	261.8	319.1	344.8	392.3	479.3	483.2	490.1	519.8
57.5°	469.4	363.7	346.8	235.1	272.7	297.4	355.8	447.7	449.6	455.6	484.2
60°	410.1	262.8	318.1	206.5	232.2	251.0	322.1	410.1	417.0	421.0	445.7
62.5°	342.8	190.7	288.5	186.7	212.4	216.4	294.4	374.6	383.4	386.4	401.2
65°	244.0	160.1	245.0	169.9	191.7	192.7	264.8	337.9	345.8	350.7	361.7
67.5°	165.0	130.4	186.7	154.1	175.9	176.9	236.1	295.4	306.3	310.2	317.1
70°	114.6	86.9	138.3	137.3	158.1	160.1	205.5	256.9	266.8	269.7	273.7
72.5°	84.0	70.1	114.6	123.5	139.3	141.3	173.9	213.4	223.3	226.3	228.2
75°	64.2	74.1	92.9	107.7	118.6	119.5	142.3	173.9	180.8	182.8	183.8
77.5°	51.4	69.2	68.2	86.9	96.8	94.8	111.6	134.4	140.3	140.3	140.3
80°	38.5	54.3	51.4	62.2	71.1	69.2	80.0	95.8	97.8	99.8	98.8
82.5°	28.7	34.6	34.6	39.5	47.4	45.4	53.4	62.2	62.2	62.2	64.2
85°	17.8	19.8	15.8	20.7	26.7	25.7	29.6	33.6	34.6	34.6	32.6
87.5°	10.9	8.9	4.9	7.9	11.9	11.9	13.8	14.8	13.8	13.8	13.8
90°	10.7	7.4	4.1	7.4	10.7	11.5	18.1	26.9	31.2	27.8	20.8
92.5°	72.3	44.4	16.4	44.4	72.3	79.3	111.5	154.4	175.9	154.1	110.7
95°	141.8	90.6	39.4	90.6	141.8	154.5	274.4	434.1	514.1	458.7	348.1
97.5°	158.5	113.3	68.2	113.3	158.5	169.7	369.6	636.1	769.3	734.3	664.3
100°	172.2	131.3	90.4	131.3	172.2	182.5	404.3	700.0	847.8	850.4	855.4
102.5°	185.6	147.5	109.3	147.5	185.6	195.2	420.2	720.1	870.0	914.6	1003.7
105°	206.0	173.7	141.4	173.7	206.0	214.1	432.0	722.3	867.6	967.4	1167.2
107.5°	234.6	204.4	174.3	204.4	234.6	242.1	434.1	690.1	818.2	957.6	1236.3
110°	250.9	223.7	196.4	223.7	250.9	257.7	430.8	661.7	777.1	932.9	1244.5

TEST NUMBER: P935118

CATALOG NUMBER: SQ4-FA-100U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	270.0	244.1	218.2	244.1	270.0	276.5	431.0	636.8	739.7	899.2	1218.0
115°	298.9	275.0	251.1	275.0	298.9	304.9	434.9	608.3	695.0	848.6	1155.8
117.5°	327.0	305.3	283.6	305.3	327.0	332.5	443.0	590.4	664.1	802.8	1080.0
120°	343.3	322.9	302.4	322.9	343.3	348.5	449.5	584.4	651.8	778.4	1031.8
122.5°	362.3	341.7	321.0	341.7	362.3	367.4	459.0	581.2	642.3	756.3	984.4
125°	386.9	368.1	349.4	368.1	386.9	391.6	471.8	578.6	632.0	728.9	922.7
127.5°	410.3	391.2	372.3	391.2	410.3	415.1	484.5	577.1	623.4	706.6	873.0
130°	425.5	405.1	384.6	405.1	425.5	430.7	493.8	578.1	620.2	694.3	842.4
132.5°	438.3	417.8	397.4	417.8	438.3	443.4	501.3	578.6	617.2	683.5	816.1
135°	453.6	434.9	416.3	434.9	453.6	458.2	509.6	578.1	612.4	667.9	778.8
137.5°	472.5	454.1	435.6	454.1	472.5	477.1	521.9	581.6	611.5	658.4	752.3
140°	485.6	468.6	451.6	468.6	485.6	489.9	529.5	582.2	608.6	649.1	730.2
142.5°	495.4	479.7	464.0	479.7	495.4	499.3	535.8	584.3	608.6	644.2	715.4
145°	510.2	496.6	482.8	496.6	510.2	513.7	544.0	584.4	604.6	633.7	691.9
147.5°	528.4	515.1	501.8	515.1	528.4	531.7	556.0	588.4	604.6	627.5	673.3
150°	538.2	526.1	514.1	526.1	538.2	541.2	562.4	590.5	604.6	623.9	662.6
152.5°	545.1	535.9	526.8	535.9	545.1	547.4	566.4	591.8	604.6	621.1	654.1
155°	559.3	552.5	545.8	552.5	559.3	561.0	575.5	594.9	604.6	617.7	644.0
157.5°	572.8	566.3	559.7	566.3	572.8	574.5	584.5	597.8	604.6	614.7	635.2
160°	579.4	574.3	569.2	574.3	579.4	580.6	588.7	599.2	604.6	613.4	630.8
162.5°	586.3	582.4	578.6	582.4	586.3	587.3	593.0	600.7	604.6	612.0	626.7
165°	595.8	592.3	588.8	592.3	595.8	596.7	599.3	602.8	604.6	609.9	620.5
167.5°	601.7	600.0	598.3	600.0	601.7	602.1	604.3	607.1	608.6	612.1	619.0
170°	607.8	606.1	604.6	606.1	607.8	608.2	608.3	608.5	608.6	612.1	619.0
172.5°	608.5	608.2	607.8	608.2	608.5	608.6	608.6	608.6	608.6	611.4	616.8
175°	612.4	612.4	612.4	612.4	612.4	612.4	611.1	609.4	608.6	610.4	613.8
177.5°	612.4	612.4	612.4	612.4	612.4	612.4	611.4	610.1	609.4	610.8	613.5
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4

TEST NUMBER: P935118

CATALOG NUMBER: SQ4-FA-100U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1007.9	1004.9	1008.8	998.0	1008.8	1004.9	1007.9	1014.8	1008.8	1012.8	1016.8
5°	884.4	879.4	863.6	850.8	863.6	879.4	884.4	905.1	915.0	932.8	956.5
7.5°	790.5	786.5	782.6	774.7	782.6	786.5	790.5	796.4	806.3	822.1	839.9
10°	769.8	770.7	776.7	775.7	776.7	770.7	769.8	767.8	764.8	767.8	778.6
12.5°	823.1	832.0	864.6	862.6	864.6	832.0	823.1	783.6	756.9	752.0	753.9
15°	884.4	887.3	894.2	895.2	894.2	887.3	884.4	868.6	788.5	753.9	743.1
17.5°	890.3	891.3	896.2	896.2	896.2	891.3	890.3	883.4	856.7	810.3	749.0
20°	885.3	887.3	897.2	899.2	897.2	887.3	885.3	876.5	861.6	844.8	798.4
22.5°	883.4	887.3	895.2	894.2	895.2	887.3	883.4	869.5	856.7	844.8	826.1
25°	873.5	873.5	874.5	875.5	874.5	873.5	873.5	862.6	836.9	834.0	823.1
27.5°	852.7	854.7	860.6	859.7	860.6	854.7	852.7	848.8	821.1	818.2	810.3
30°	834.0	832.0	827.1	823.1	827.1	832.0	834.0	828.0	800.4	792.5	794.5
32.5°	802.4	797.4	792.5	789.5	792.5	797.4	802.4	800.4	779.6	768.8	770.7
35°	764.8	765.8	764.8	761.8	764.8	765.8	764.8	766.8	753.9	744.1	743.1
37.5°	738.1	740.1	739.1	735.2	739.1	740.1	738.1	736.2	718.4	715.4	717.4
40°	710.5	711.5	710.5	707.5	710.5	711.5	710.5	706.5	681.8	682.8	689.7
42.5°	683.8	682.8	679.8	677.9	679.8	682.8	683.8	677.9	646.3	643.3	656.1
45°	653.2	654.2	648.2	645.3	648.2	654.2	653.2	649.2	616.6	608.7	617.6
47.5°	622.5	622.5	617.6	614.6	617.6	622.5	622.5	617.6	583.0	575.1	580.1
50°	589.9	588.9	582.0	581.0	582.0	588.9	589.9	587.0	550.4	543.5	543.5
52.5°	552.4	552.4	553.4	555.4	553.4	552.4	552.4	553.4	520.8	513.9	511.9
55°	519.8	520.8	527.7	529.7	527.7	520.8	519.8	519.8	490.1	483.2	479.3
57.5°	486.2	486.2	491.1	491.1	491.1	486.2	486.2	484.2	455.6	449.6	447.7
60°	447.7	449.6	453.6	452.6	453.6	449.6	447.7	445.7	421.0	417.0	410.1
62.5°	407.2	409.1	410.1	408.1	410.1	409.1	407.2	401.2	386.4	383.4	374.6
65°	364.7	366.6	367.6	365.7	367.6	366.6	364.7	361.7	350.7	345.8	337.9
67.5°	321.1	320.1	319.1	323.1	319.1	320.1	321.1	317.1	310.2	306.3	295.4
70°	276.6	276.6	275.7	277.6	275.7	276.6	276.6	273.7	269.7	266.8	256.9
72.5°	229.2	228.2	232.2	229.2	232.2	228.2	229.2	228.2	226.3	223.3	213.4
75°	182.8	184.8	182.8	185.7	182.8	184.8	182.8	183.8	182.8	180.8	173.9
77.5°	139.3	141.3	139.3	139.3	139.3	141.3	139.3	140.3	140.3	140.3	134.4
80°	98.8	97.8	97.8	96.8	97.8	97.8	98.8	98.8	99.8	97.8	95.8
82.5°	63.2	62.2	62.2	64.2	62.2	62.2	63.2	64.2	62.2	62.2	62.2
85°	34.6	35.6	33.6	33.6	33.6	35.6	34.6	32.6	34.6	34.6	33.6
87.5°	12.8	11.9	11.9	11.9	11.9	11.9	12.8	13.8	13.8	13.8	14.8
90°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	20.8	27.8	31.2	26.9
92.5°	78.1	75.0	62.5	50.1	62.5	75.0	78.1	110.7	154.1	175.9	154.4
95°	265.1	255.7	218.1	180.4	218.1	255.7	265.1	348.1	458.7	514.1	434.1
97.5°	611.9	594.0	522.4	450.8	522.4	594.0	611.9	664.3	734.3	769.3	636.1
100°	859.3	837.9	752.7	667.4	752.7	837.9	859.3	855.4	850.4	847.8	700.0
102.5°	1070.5	1052.2	979.2	906.2	979.2	1052.2	1070.5	1003.7	914.6	870.0	720.1
105°	1317.1	1307.3	1268.0	1228.8	1268.0	1307.3	1317.1	1167.2	967.4	867.6	722.3
107.5°	1445.3	1447.7	1457.2	1466.7	1457.2	1447.7	1445.3	1236.3	957.6	818.2	690.1
110°	1478.1	1488.4	1529.3	1570.2	1529.3	1488.4	1478.1	1244.5	932.9	777.1	661.7

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1457.2	1472.9	1535.7	1598.6	1535.7	1472.9	1457.2	1218.0	899.2	739.7	636.8
115°	1386.2	1407.9	1495.0	1582.2	1495.0	1407.9	1386.2	1155.8	848.6	695.0	608.3
117.5°	1288.0	1312.1	1408.7	1505.3	1408.7	1312.1	1288.0	1080.0	802.8	664.1	590.4
120°	1221.8	1245.3	1339.1	1433.0	1339.1	1245.3	1221.8	1031.8	778.4	651.8	584.4
122.5°	1155.6	1178.7	1271.4	1363.9	1271.4	1178.7	1155.6	984.4	756.3	642.3	581.2
125°	1068.0	1089.4	1174.6	1260.0	1174.6	1089.4	1068.0	922.7	728.9	632.0	578.6
127.5°	997.8	1015.8	1087.8	1159.7	1087.8	1015.8	997.8	873.0	706.6	623.4	577.1
130°	953.4	970.0	1036.5	1103.0	1036.5	970.0	953.4	842.4	694.3	620.2	578.1
132.5°	915.6	930.5	990.0	1049.6	990.0	930.5	915.6	816.1	683.5	617.2	578.6
135°	862.1	875.0	926.2	977.6	926.2	875.0	862.1	778.8	667.9	612.4	578.1
137.5°	822.7	833.2	875.3	917.3	875.3	833.2	822.7	752.3	658.4	611.5	581.6
140°	791.1	800.9	840.2	879.4	840.2	800.9	791.1	730.2	649.1	608.6	582.2
142.5°	768.9	777.4	811.1	844.9	811.1	777.4	768.9	715.4	644.2	608.6	584.3
145°	735.6	742.0	767.6	793.2	767.6	742.0	735.6	691.9	633.7	604.6	584.4
147.5°	707.7	713.0	734.2	755.3	734.2	713.0	707.7	673.3	627.5	604.6	588.4
150°	691.6	695.8	713.0	730.2	713.0	695.8	691.6	662.6	623.9	604.6	590.5
152.5°	678.9	682.1	695.1	708.1	695.1	682.1	678.9	654.1	621.1	604.6	591.8
155°	663.6	665.8	674.4	683.0	674.4	665.8	663.6	644.0	617.7	604.6	594.9
157.5°	650.5	652.0	658.1	664.1	658.1	652.0	650.5	635.2	614.7	604.6	597.8
160°	644.0	644.9	648.3	651.8	648.3	644.9	644.0	630.8	613.4	604.6	599.2
162.5°	637.8	638.5	641.9	645.2	641.9	638.5	637.8	626.7	612.0	604.6	600.7
165°	628.4	629.3	632.7	636.2	632.7	629.3	628.4	620.5	609.9	604.6	602.8
167.5°	624.2	624.6	626.0	627.5	626.0	624.6	624.2	619.0	612.1	608.6	607.1
170°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	619.0	612.1	608.6	608.5
172.5°	621.0	620.7	619.4	618.1	619.4	620.7	621.0	616.8	611.4	608.6	608.6
175°	616.4	616.4	616.4	616.4	616.4	616.4	616.4	613.8	610.4	608.6	609.4
177.5°	615.6	615.2	613.8	612.4	613.8	615.2	615.6	613.5	610.8	609.4	610.1
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1031.6	1036.5	1039.5	1043.4	1053.3
5°	992.1	1010.8	1016.8	1031.6	1049.4
7.5°	905.1	962.4	978.2	1013.8	1041.5
10°	821.1	878.4	906.1	990.1	1031.6
12.5°	778.6	812.2	831.0	948.6	1017.7
15°	752.0	775.7	789.5	893.3	1001.9
17.5°	731.2	748.0	757.9	838.9	980.2
20°	718.4	726.3	735.2	799.4	955.5
22.5°	709.5	704.5	711.5	771.7	921.9
25°	703.6	684.8	692.7	750.0	882.4
27.5°	708.5	667.0	670.0	730.2	840.9
30°	709.5	645.3	646.3	709.5	794.5
32.5°	702.6	622.5	623.5	683.8	742.1
35°	685.8	595.9	594.9	654.2	671.0
37.5°	663.0	567.2	567.2	621.6	592.9
40°	635.4	538.6	541.5	579.1	523.7
42.5°	601.8	507.9	511.9	522.8	472.4
45°	565.2	478.3	481.3	441.7	432.8
47.5°	524.7	447.7	448.7	366.6	420.0
50°	476.3	416.0	412.1	314.2	419.0
52.5°	433.8	381.5	369.6	284.5	380.5
55°	392.3	344.8	319.1	261.8	352.8
57.5°	355.8	297.4	272.7	235.1	346.8
60°	322.1	251.0	232.2	206.5	318.1
62.5°	294.4	216.4	212.4	186.7	288.5
65°	264.8	192.7	191.7	169.9	245.0
67.5°	236.1	176.9	175.9	154.1	186.7
70°	205.5	160.1	158.1	137.3	138.3
72.5°	173.9	141.3	139.3	123.5	114.6
75°	142.3	119.5	118.6	107.7	92.9
77.5°	111.6	94.8	96.8	86.9	68.2
80°	80.0	69.2	71.1	62.2	51.4
82.5°	53.4	45.4	47.4	39.5	34.6
85°	29.6	25.7	26.7	20.7	15.8
87.5°	13.8	11.9	11.9	7.9	4.9
90°	18.1	11.5	10.7	7.4	4.1
92.5°	111.5	79.3	72.3	44.4	16.4
95°	274.4	154.5	141.8	90.6	39.4
97.5°	369.6	169.7	158.5	113.3	68.2
100°	404.3	182.5	172.2	131.3	90.4
102.5°	420.2	195.2	185.6	147.5	109.3
105°	432.0	214.1	206.0	173.7	141.4
107.5°	434.1	242.1	234.6	204.4	174.3
110°	430.8	257.7	250.9	223.7	196.4



TEST NUMBER: P935118

CATALOG NUMBER: SQ4-FA-100U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	431.0	276.5	270.0	244.1	218.2
115°	434.9	304.9	298.9	275.0	251.1
117.5°	443.0	332.5	327.0	305.3	283.6
120°	449.5	348.5	343.3	322.9	302.4
122.5°	459.0	367.4	362.3	341.7	321.0
125°	471.8	391.6	386.9	368.1	349.4
127.5°	484.5	415.1	410.3	391.2	372.3
130°	493.8	430.7	425.5	405.1	384.6
132.5°	501.3	443.4	438.3	417.8	397.4
135°	509.6	458.2	453.6	434.9	416.3
137.5°	521.9	477.1	472.5	454.1	435.6
140°	529.5	489.9	485.6	468.6	451.6
142.5°	535.8	499.3	495.4	479.7	464.0
145°	544.0	513.7	510.2	496.6	482.8
147.5°	556.0	531.7	528.4	515.1	501.8
150°	562.4	541.2	538.2	526.1	514.1
152.5°	566.4	547.4	545.1	535.9	526.8
155°	575.5	561.0	559.3	552.5	545.8
157.5°	584.5	574.5	572.8	566.3	559.7
160°	588.7	580.6	579.4	574.3	569.2
162.5°	593.0	587.3	586.3	582.4	578.6
165°	599.3	596.7	595.8	592.3	588.8
167.5°	604.3	602.1	601.7	600.0	598.3
170°	608.3	608.2	607.8	606.1	604.6
172.5°	608.6	608.6	608.5	608.2	607.8
175°	611.1	612.4	612.4	612.4	612.4
177.5°	611.4	612.4	612.4	612.4	612.4
180°	612.4	612.4	612.4	612.4	612.4

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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	11.75	12.53	12.78	13.57	14.97	14.54	15.33	15.58	16.37	17.77
	3H	12.22	12.92	13.26	13.97	15.39	15.87	16.57	16.92	17.62	19.04
	4H	12.40	13.07	13.46	14.12	15.55	16.31	16.97	17.36	18.02	19.45
	6H	12.52	13.13	13.59	14.19	15.62	16.58	17.19	17.65	18.25	19.68
	8H	12.52	13.10	13.59	14.17	15.61	16.65	17.23	17.72	18.30	19.73
	12H	12.49	13.04	13.56	14.11	15.56	16.68	17.23	17.75	18.30	19.75
4H	2H	12.76	13.43	13.82	14.48	15.90	14.94	15.61	16.01	16.66	18.09
	3H	13.78	14.33	14.85	15.41	16.85	16.43	16.99	17.50	18.07	19.51
	4H	14.05	14.56	15.13	15.63	17.09	16.95	17.46	18.03	18.53	19.99
	6H	14.17	14.61	15.26	15.70	17.16	17.30	17.74	18.39	18.83	20.29
	8H	14.18	14.58	15.26	15.67	17.14	17.40	17.81	18.49	18.90	20.37
	12H	14.14	14.51	15.24	15.61	17.08	17.45	17.82	18.55	18.92	20.39
8H	4H	14.50	14.90	15.58	15.99	17.46	17.07	17.48	18.16	18.56	20.03
	6H	14.75	15.09	15.86	16.22	17.68	17.49	17.83	18.60	18.96	20.43
	8H	14.80	15.09	15.91	16.20	17.69	17.64	17.94	18.76	19.05	20.53
	12H	14.78	15.03	15.89	16.14	17.67	17.73	17.99	18.85	19.09	20.62
12H	4H	14.50	14.86	15.60	15.96	17.44	17.03	17.40	18.13	18.50	19.97
	6H	14.81	15.11	15.93	16.22	17.70	17.49	17.79	18.61	18.90	20.38
	8H	14.87	15.13	15.99	16.24	17.76	17.64	17.90	18.76	19.01	20.53