

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: P934215

Luminaire Tested: SQ4-FA-050U-050D-835-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934215
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

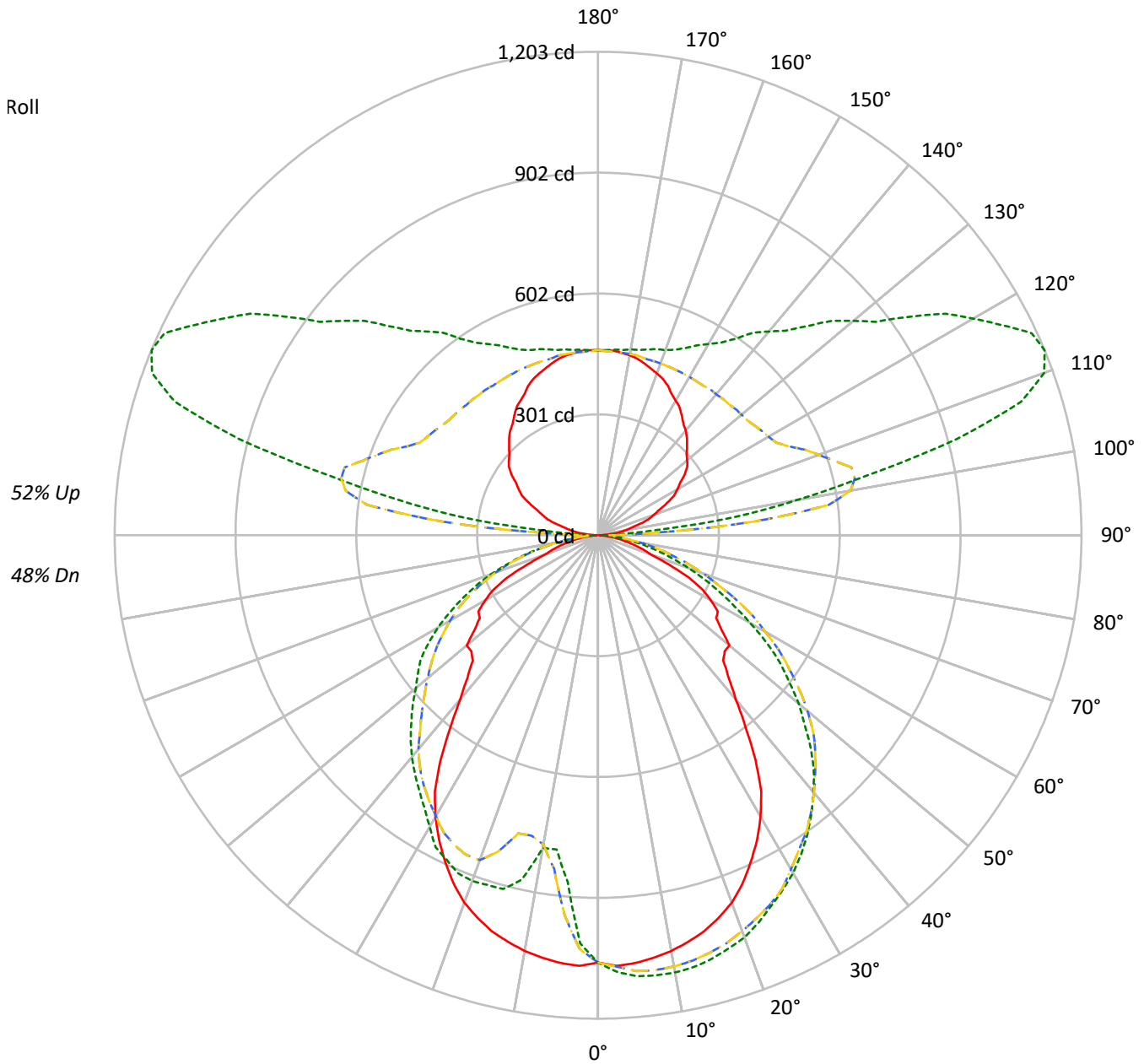
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5745.0 lumens
Efficiency: N/A
Efficacy: 134.9 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: General Diffuse

Input Watts (W): 42.6
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: P934215
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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				
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	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6578	6578	6578	6578
5°	6624	6640	6624	5221
10°	6578	6541	6578	4676
15°	6504	6399	6504	5343
20°	6365	6231	6365	5354
25°	6084	5987	6084	5241
30°	5722	5783	5722	4992
35°	5099	5526	5099	4718
40°	4246	5224	4246	4511
45°	3791	4869	3791	4273
50°	4025	4447	4025	4035
55°	3783	3991	3783	3897
60°	3895	3390	3895	3569
65°	3526	2802	3526	3132
70°	2435	2233	2435	2626
75°	2129	1650	2129	1976
80°	1702	1091	1702	1188
85°	960	577	960	491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5815 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.7
10°-20°	272.5	4.7
20°-30°	421.3	7.3
30°-40°	502.9	8.8
40°-50°	505.9	8.8
50°-60°	440.2	7.7
60°-70°	312.1	5.4
70°-80°	165.1	2.9
80°-90°	42.9	0.7
90°-100°	224.5	3.9
100°-110°	590.3	10.3
110°-120°	612.1	10.7
120°-130°	491.0	8.5
130°-140°	385.3	6.7
140°-150°	295.7	5.1
150°-160°	213.0	3.7
160°-170°	130.3	2.3
170°-180°	44.0	0.8
0°-30°	789.8	13.7
0°-40°	1292.7	22.5
0°-60°	2238.7	39.0
0°-90°	2758.8	48.0
90°-120°	1427.0	24.8
90°-150°	2599.0	45.2
90°-180°	2986.0	52.0
0°-180°	5745.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1063	1063	1063	1063	1063	
5°	1068	1102	1068	866	1068	101
15°	1020	1092	1020	911	1020	287
25°	898	1018	898	891	898	412
35°	683	908	683	776	683	423
45°	441	748	441	657	441	353
55°	359	552	359	539	359	330
65°	250	333	250	372	250	238
75°	95	158	95	189	95	99
85°	16	40	16	34	16	22
90°	3	12	3	12	3	3
95°	30	136	30	136	30	33
105°	106	924	106	924	106	113
115°	189	1190	189	1190	189	187
125°	263	948	263	948	263	233
135°	313	736	313	736	313	242
145°	363	597	363	597	363	228
155°	411	514	411	514	411	189
165°	443	479	443	479	443	125
175°	461	464	461	464	461	44
180°	461	461	461	461	461	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1072.4	1072.4	1078.4	1080.4	1080.4	1077.4	1074.4	1077.4	1086.5	1089.5	1088.5
5°	1068.3	1076.4	1087.5	1089.5	1091.5	1090.5	1088.5	1090.5	1100.5	1102.6	1103.6
7.5°	1060.3	1075.4	1089.5	1092.5	1095.5	1092.5	1091.5	1093.5	1103.6	1105.6	1105.6
10°	1050.2	1071.4	1087.5	1089.5	1092.5	1089.5	1089.5	1093.5	1103.6	1105.6	1106.6
12.5°	1036.2	1065.3	1080.4	1082.4	1086.5	1085.5	1084.4	1088.5	1098.5	1100.5	1100.5
15°	1020.1	1054.3	1068.3	1070.4	1077.4	1075.4	1075.4	1079.4	1090.5	1093.5	1092.5
17.5°	997.9	1040.2	1056.3	1059.3	1064.3	1063.3	1064.3	1068.3	1078.4	1080.4	1081.4
20°	972.8	1021.1	1040.2	1043.2	1048.2	1048.2	1048.2	1053.3	1063.3	1067.3	1067.3
22.5°	938.6	1000.9	1021.1	1023.1	1029.1	1029.1	1031.1	1038.2	1047.2	1048.2	1048.2
25°	898.3	978.8	995.9	1002.0	1008.0	1011.0	1014.0	1018.1	1021.1	1020.1	1021.1
27.5°	856.1	950.6	972.8	976.8	984.9	987.9	991.9	992.9	993.9	996.9	994.9
30°	808.8	911.4	944.6	948.6	961.7	963.7	959.7	961.7	966.7	968.8	970.8
32.5°	755.5	853.1	915.4	924.5	936.6	930.5	929.5	932.5	940.6	940.6	942.6
35°	683.1	807.8	888.3	896.3	905.4	898.3	902.4	903.4	908.4	911.4	910.4
37.5°	603.6	768.6	860.1	866.1	873.2	864.1	870.2	873.2	877.2	875.2	875.2
40°	533.2	707.2	826.9	830.9	837.0	829.9	836.0	838.0	840.0	838.0	837.0
42.5°	480.9	639.8	791.7	796.7	792.7	797.7	799.8	803.8	800.8	796.7	796.7
45°	440.6	621.7	753.5	759.5	753.5	761.5	764.5	764.5	755.5	753.5	752.5
47.5°	427.5	585.5	715.3	715.3	712.2	722.3	727.3	720.3	711.2	708.2	708.2
50°	426.5	545.2	662.9	658.9	673.0	685.1	680.0	673.0	666.0	654.9	654.9
52.5°	387.3	495.9	595.5	610.6	632.8	639.8	631.8	624.7	612.6	607.6	603.6
55°	359.1	444.6	534.2	564.4	587.5	596.5	581.5	574.4	556.3	553.3	551.3
57.5°	353.1	370.2	477.8	516.1	544.2	543.2	534.2	521.1	506.0	503.0	502.0
60°	323.9	267.6	417.5	462.8	491.9	488.9	480.9	468.8	454.7	452.7	450.7
62.5°	293.7	194.2	349.1	400.4	441.6	440.6	433.6	415.5	405.4	400.4	396.4
65°	249.5	163.0	248.5	333.0	392.3	394.3	379.3	366.2	355.1	349.1	348.1
67.5°	190.1	132.8	168.0	277.7	345.1	343.0	323.9	317.9	303.8	300.8	294.8
70°	140.8	88.5	116.7	225.3	298.8	293.7	278.7	271.6	258.5	251.5	247.5
72.5°	116.7	71.4	85.5	175.0	251.5	245.5	232.4	224.3	213.3	207.2	203.2
75°	94.6	75.4	65.4	129.8	204.2	200.2	188.1	180.1	171.0	163.0	164.0
77.5°	69.4	70.4	52.3	95.6	162.0	155.9	148.9	138.8	134.8	126.8	126.8
80°	52.3	55.3	39.2	65.4	116.7	116.7	110.7	103.6	96.6	92.6	92.6
82.5°	35.2	35.2	29.2	41.2	79.5	76.5	72.4	70.4	66.4	64.4	64.4
85°	16.1	20.1	18.1	25.1	43.3	45.3	45.3	43.3	42.3	40.2	41.2
87.5°	5.0	9.1	11.1	14.1	22.1	23.1	24.1	24.1	24.1	25.1	25.1
90°	3.1	5.6	8.1	8.7	13.6	20.2	23.5	20.9	15.6	11.7	11.7
92.5°	12.4	33.4	54.4	59.7	83.9	116.2	132.3	115.9	83.2	58.7	56.4
95°	29.7	68.1	106.6	116.2	206.4	326.7	386.8	345.2	261.9	199.4	192.3
97.5°	51.3	85.3	119.2	127.7	278.1	478.6	578.8	552.5	499.8	460.3	446.8
100°	68.0	98.8	129.6	137.3	304.1	526.6	637.8	639.7	643.6	646.5	630.5
102.5°	82.2	111.0	139.7	146.9	316.1	541.7	654.5	688.0	755.1	805.4	791.7
105°	106.4	130.7	155.0	161.1	324.9	543.4	652.6	727.8	878.1	990.9	983.5
107.5°	131.1	153.8	176.4	182.1	326.6	519.2	615.5	720.3	930.0	1087.3	1089.1
110°	147.8	168.2	188.7	193.8	324.1	497.8	584.6	701.8	936.3	1112.1	1119.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	164.2	183.7	203.2	208.1	324.2	479.1	556.5	676.5	916.4	1096.3	1108.1
115°	188.9	206.9	224.9	229.4	327.2	457.6	522.8	638.4	869.5	1042.8	1059.2
117.5°	213.3	229.7	246.0	250.1	333.3	444.2	499.6	603.9	812.5	968.9	987.1
120°	227.5	242.9	258.3	262.2	338.2	439.6	490.3	585.6	776.2	919.1	936.8
122.5°	241.5	257.0	272.5	276.4	345.3	437.2	483.2	569.0	740.7	869.4	886.8
125°	262.8	276.9	291.1	294.6	354.9	435.3	475.5	548.4	694.2	803.5	819.5
127.5°	280.1	294.4	308.7	312.3	364.5	434.2	469.0	531.6	656.7	750.6	764.1
130°	289.4	304.8	320.2	324.0	371.5	434.8	466.5	522.2	633.7	717.3	729.8
132.5°	299.0	314.4	329.8	333.6	377.2	435.3	464.4	514.3	614.0	688.8	700.0
135°	313.2	327.2	341.2	344.7	383.4	434.9	460.7	502.5	586.0	648.6	658.3
137.5°	327.7	341.6	355.4	358.9	392.6	437.5	460.0	495.3	565.9	618.9	626.8
140°	339.8	352.6	365.3	368.5	398.3	438.0	457.9	488.4	549.4	595.1	602.5
142.5°	349.0	360.8	372.6	375.6	403.0	439.6	457.9	484.7	538.2	578.4	584.8
145°	363.3	373.6	383.9	386.5	409.3	439.6	454.8	476.7	520.5	553.4	558.2
147.5°	377.5	387.5	397.6	400.1	418.3	442.6	454.8	472.0	506.5	532.4	536.4
150°	386.8	395.9	404.9	407.2	423.1	444.2	454.8	469.4	498.5	520.3	523.5
152.5°	396.3	403.2	410.1	411.8	426.1	445.2	454.8	467.2	492.1	510.7	513.1
155°	410.6	415.7	420.7	422.0	432.9	447.5	454.8	464.7	484.5	499.3	500.9
157.5°	421.1	426.0	431.0	432.2	439.7	449.8	454.8	462.5	477.9	489.4	490.5
160°	428.2	432.0	435.8	436.8	442.8	450.8	454.8	461.4	474.6	484.5	485.1
162.5°	435.3	438.2	441.1	441.8	446.1	451.9	454.8	460.4	471.5	479.8	480.4
165°	443.0	445.6	448.2	448.9	450.9	453.5	454.8	458.8	466.7	472.7	473.4
167.5°	450.1	451.3	452.6	452.9	454.6	456.8	457.9	460.5	465.7	469.6	469.9
170°	454.8	456.0	457.3	457.6	457.7	457.8	457.9	460.5	465.7	469.6	469.6
172.5°	457.3	457.6	457.8	457.9	457.9	457.9	457.9	459.9	464.0	467.1	466.9
175°	460.7	460.7	460.7	460.7	459.8	458.5	457.9	459.2	461.8	463.7	463.7
177.5°	460.7	460.7	460.7	460.7	460.0	459.0	458.5	459.5	461.6	463.1	462.8
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1090.5	1087.5	1090.5	1088.5	1089.5	1086.5	1077.4	1074.4	1077.4	1080.4	1080.4
5°	1103.6	1101.5	1103.6	1103.6	1102.6	1100.5	1090.5	1088.5	1090.5	1091.5	1089.5
7.5°	1107.6	1104.6	1107.6	1105.6	1105.6	1103.6	1093.5	1091.5	1092.5	1095.5	1092.5
10°	1107.6	1104.6	1107.6	1106.6	1105.6	1103.6	1093.5	1089.5	1089.5	1092.5	1089.5
12.5°	1102.6	1100.5	1102.6	1100.5	1100.5	1098.5	1088.5	1084.4	1085.5	1086.5	1082.4
15°	1094.5	1091.5	1094.5	1092.5	1093.5	1090.5	1079.4	1075.4	1075.4	1077.4	1070.4
17.5°	1082.4	1078.4	1082.4	1081.4	1080.4	1078.4	1068.3	1064.3	1063.3	1064.3	1059.3
20°	1068.3	1065.3	1068.3	1067.3	1067.3	1063.3	1053.3	1048.2	1048.2	1048.2	1043.2
22.5°	1046.2	1043.2	1046.2	1048.2	1048.2	1047.2	1038.2	1031.1	1029.1	1029.1	1023.1
25°	1021.1	1018.1	1021.1	1021.1	1020.1	1021.1	1018.1	1014.0	1011.0	1008.0	1002.0
27.5°	996.9	994.9	996.9	994.9	996.9	993.9	992.9	991.9	987.9	984.9	976.8
30°	972.8	970.8	972.8	970.8	968.8	966.7	961.7	959.7	963.7	961.7	948.6
32.5°	942.6	940.6	942.6	942.6	940.6	940.6	932.5	929.5	930.5	936.6	924.5
35°	911.4	908.4	911.4	910.4	911.4	908.4	903.4	902.4	898.3	905.4	896.3
37.5°	875.2	872.2	875.2	875.2	875.2	877.2	873.2	870.2	864.1	873.2	866.1
40°	838.0	834.0	838.0	837.0	838.0	840.0	838.0	836.0	829.9	837.0	830.9
42.5°	795.7	794.7	795.7	796.7	796.7	800.8	803.8	799.8	797.7	792.7	796.7
45°	750.5	748.4	750.5	752.5	753.5	755.5	764.5	764.5	761.5	753.5	759.5
47.5°	702.2	697.1	702.2	708.2	708.2	711.2	720.3	727.3	722.3	712.2	715.3
50°	650.9	651.9	650.9	654.9	654.9	666.0	673.0	680.0	685.1	673.0	658.9
52.5°	600.6	599.6	600.6	603.6	607.6	612.6	624.7	631.8	639.8	632.8	610.6
55°	550.3	552.3	550.3	551.3	553.3	556.3	574.4	581.5	596.5	587.5	564.4
57.5°	500.0	497.0	500.0	502.0	503.0	506.0	521.1	534.2	543.2	544.2	516.1
60°	441.6	437.6	441.6	450.7	452.7	454.7	468.8	480.9	488.9	491.9	462.8
62.5°	390.3	383.3	390.3	396.4	400.4	405.4	415.5	433.6	440.6	441.6	400.4
65°	336.0	333.0	336.0	348.1	349.1	355.1	366.2	379.3	394.3	392.3	333.0
67.5°	286.7	286.7	286.7	294.8	300.8	303.8	317.9	323.9	343.0	345.1	277.7
70°	241.4	240.4	241.4	247.5	251.5	258.5	271.6	278.7	293.7	298.8	225.3
72.5°	198.2	197.2	198.2	203.2	207.2	213.3	224.3	232.4	245.5	251.5	175.0
75°	160.0	157.9	160.0	164.0	163.0	171.0	180.1	188.1	200.2	204.2	129.8
77.5°	122.7	122.7	122.7	126.8	126.8	134.8	138.8	148.9	155.9	162.0	95.6
80°	91.5	90.5	91.5	92.6	92.6	96.6	103.6	110.7	116.7	116.7	65.4
82.5°	64.4	62.4	64.4	64.4	64.4	66.4	70.4	72.4	76.5	79.5	41.2
85°	40.2	40.2	40.2	41.2	40.2	42.3	43.3	45.3	45.3	43.3	25.1
87.5°	26.2	25.1	26.2	25.1	25.1	24.1	24.1	24.1	23.1	22.1	14.1
90°	11.7	11.7	11.7	11.7	11.7	15.6	20.9	23.5	20.2	13.6	8.7
92.5°	47.0	37.7	47.0	56.4	58.7	83.2	115.9	132.3	116.2	83.9	59.7
95°	164.0	135.7	164.0	192.3	199.4	261.9	345.2	386.8	326.7	206.4	116.2
97.5°	393.0	339.2	393.0	446.8	460.3	499.8	552.5	578.8	478.6	278.1	127.7
100°	566.3	502.1	566.3	630.5	646.5	643.6	639.7	637.8	526.6	304.1	137.3
102.5°	736.7	681.7	736.7	791.7	805.4	755.1	688.0	654.5	541.7	316.1	146.9
105°	954.0	924.4	954.0	983.5	990.9	878.1	727.8	652.6	543.4	324.9	161.1
107.5°	1096.2	1103.4	1096.2	1089.1	1087.3	930.0	720.3	615.5	519.2	326.6	182.1
110°	1150.5	1181.3	1150.5	1119.8	1112.1	936.3	701.8	584.6	497.8	324.1	193.8



TEST NUMBER: P934215

CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1155.4	1202.6	1155.4	1108.1	1096.3	916.4	676.5	556.5	479.1	324.2	208.1
115°	1124.7	1190.3	1124.7	1059.2	1042.8	869.5	638.4	522.8	457.6	327.2	229.4
117.5°	1059.8	1132.5	1059.8	987.1	968.9	812.5	603.9	499.6	444.2	333.3	250.1
120°	1007.4	1078.1	1007.4	936.8	919.1	776.2	585.6	490.3	439.6	338.2	262.2
122.5°	956.5	1026.1	956.5	886.8	869.4	740.7	569.0	483.2	437.2	345.3	276.4
125°	883.7	947.9	883.7	819.5	803.5	694.2	548.4	475.5	435.3	354.9	294.6
127.5°	818.3	872.5	818.3	764.1	750.6	656.7	531.6	469.0	434.2	364.5	312.3
130°	779.8	829.8	779.8	729.8	717.3	633.7	522.2	466.5	434.8	371.5	324.0
132.5°	744.8	789.6	744.8	700.0	688.8	614.0	514.3	464.4	435.3	377.2	333.6
135°	696.9	735.5	696.9	658.3	648.6	586.0	502.5	460.7	434.9	383.4	344.7
137.5°	658.5	690.1	658.5	626.8	618.9	565.9	495.3	460.0	437.5	392.6	358.9
140°	632.0	661.6	632.0	602.5	595.1	549.4	488.4	457.9	438.0	398.3	368.5
142.5°	610.2	635.6	610.2	584.8	578.4	538.2	484.7	457.9	439.6	403.0	375.6
145°	577.5	596.7	577.5	558.2	553.4	520.5	476.7	454.8	439.6	409.3	386.5
147.5°	552.3	568.2	552.3	536.4	532.4	506.5	472.0	454.8	442.6	418.3	400.1
150°	536.5	549.4	536.5	523.5	520.3	498.5	469.4	454.8	444.2	423.1	407.2
152.5°	522.9	532.7	522.9	513.1	510.7	492.1	467.2	454.8	445.2	426.1	411.8
155°	507.4	513.8	507.4	500.9	499.3	484.5	464.7	454.8	447.5	432.9	422.0
157.5°	495.1	499.6	495.1	490.5	489.4	477.9	462.5	454.8	449.8	439.7	432.2
160°	487.7	490.3	487.7	485.1	484.5	474.6	461.4	454.8	450.8	442.8	436.8
162.5°	482.9	485.4	482.9	480.4	479.8	471.5	460.4	454.8	451.9	446.1	441.8
165°	476.0	478.6	476.0	473.4	472.7	466.7	458.8	454.8	453.5	450.9	448.9
167.5°	471.0	472.1	471.0	469.9	469.6	465.7	460.5	457.9	456.8	454.6	452.9
170°	469.6	469.6	469.6	469.6	469.6	465.7	460.5	457.9	457.8	457.7	457.6
172.5°	465.9	465.0	465.9	466.9	467.1	464.0	459.9	457.9	457.9	457.9	457.9
175°	463.7	463.7	463.7	463.7	463.7	461.8	459.2	457.9	458.5	459.8	460.7
177.5°	461.8	460.7	461.8	462.8	463.1	461.6	459.5	458.5	459.0	460.0	460.7
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



TEST NUMBER: P934215
 CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1078.4	1072.4	1072.4	1062.3	1058.3	1055.3	1050.2	1035.2	1031.1	1027.1	1033.1
5°	1087.5	1076.4	1068.3	1050.2	1035.2	1029.1	1010.0	973.8	949.6	931.5	921.5
7.5°	1089.5	1075.4	1060.3	1032.1	995.9	979.8	921.5	855.1	837.0	820.9	810.8
10°	1087.5	1071.4	1050.2	1008.0	922.5	894.3	836.0	792.7	781.6	778.6	781.6
12.5°	1080.4	1065.3	1036.2	965.7	846.0	826.9	792.7	767.6	765.5	770.6	797.7
15°	1068.3	1054.3	1020.1	909.4	803.8	789.7	765.5	756.5	767.6	802.8	884.3
17.5°	1056.3	1040.2	997.9	854.1	771.6	761.5	744.4	762.5	824.9	872.2	899.3
20°	1040.2	1021.1	972.8	813.8	748.4	739.4	731.3	812.8	860.1	877.2	892.3
22.5°	1021.1	1000.9	938.6	785.7	724.3	717.3	722.3	841.0	860.1	872.2	885.3
25°	995.9	978.8	898.3	763.5	705.2	697.1	716.3	838.0	849.0	852.1	878.2
27.5°	972.8	950.6	856.1	743.4	682.1	679.0	721.3	824.9	833.0	836.0	864.1
30°	944.6	911.4	808.8	722.3	657.9	656.9	722.3	808.8	806.8	814.8	843.0
32.5°	915.4	853.1	755.5	696.1	634.8	633.8	715.3	784.7	782.7	793.7	814.8
35°	888.3	807.8	683.1	666.0	605.6	606.6	698.1	756.5	757.5	767.6	780.6
37.5°	860.1	768.6	603.6	632.8	577.4	577.4	675.0	730.3	728.3	731.3	749.5
40°	826.9	707.2	533.2	589.5	551.3	548.3	646.8	702.2	695.1	694.1	719.3
42.5°	791.7	639.8	480.9	532.2	521.1	517.1	612.6	668.0	654.9	657.9	690.1
45°	753.5	621.7	440.6	449.7	489.9	486.9	575.4	628.7	619.7	627.7	660.9
47.5°	715.3	585.5	427.5	373.2	456.7	455.7	534.2	590.5	585.5	593.5	628.7
50°	662.9	545.2	426.5	319.9	419.5	423.5	484.9	553.3	553.3	560.3	597.6
52.5°	595.5	495.9	387.3	289.7	376.2	388.3	441.6	521.1	523.1	530.2	563.3
55°	534.2	444.6	359.1	266.6	324.9	351.1	399.4	487.9	491.9	499.0	529.1
57.5°	477.8	370.2	353.1	239.4	277.7	302.8	362.2	455.7	457.7	463.8	492.9
60°	417.5	267.6	323.9	210.2	236.4	255.5	327.9	417.5	424.5	428.5	453.7
62.5°	349.1	194.2	293.7	190.1	216.3	220.3	299.8	381.3	390.3	393.3	408.4
65°	248.5	163.0	249.5	173.0	195.2	196.2	269.6	344.0	352.1	357.1	368.2
67.5°	168.0	132.8	190.1	156.9	179.1	180.1	240.4	300.8	311.9	315.9	322.9
70°	116.7	88.5	140.8	139.8	161.0	163.0	209.2	261.6	271.6	274.6	278.7
72.5°	85.5	71.4	116.7	125.7	141.8	143.9	177.1	217.3	227.4	230.4	232.4
75°	65.4	75.4	94.6	109.7	120.7	121.7	144.9	177.1	184.1	186.1	187.1
77.5°	52.3	70.4	69.4	88.5	98.6	96.6	113.7	136.8	142.8	142.8	142.8
80°	39.2	55.3	52.3	63.4	72.4	70.4	81.5	97.6	99.6	101.6	100.6
82.5°	29.2	35.2	35.2	40.2	48.3	46.3	54.3	63.4	63.4	63.4	65.4
85°	18.1	20.1	16.1	21.1	27.2	26.2	30.2	34.2	35.2	35.2	33.2
87.5°	11.1	9.1	5.0	8.0	12.1	12.1	14.1	15.1	14.1	14.1	14.1
90°	8.1	5.6	3.1	5.6	8.1	8.7	13.6	20.2	23.5	20.9	15.6
92.5°	54.4	33.4	12.4	33.4	54.4	59.7	83.9	116.2	132.3	115.9	83.2
95°	106.6	68.1	29.7	68.1	106.6	116.2	206.4	326.7	386.8	345.2	261.9
97.5°	119.2	85.3	51.3	85.3	119.2	127.7	278.1	478.6	578.8	552.5	499.8
100°	129.6	98.8	68.0	98.8	129.6	137.3	304.1	526.6	637.8	639.7	643.6
102.5°	139.7	111.0	82.2	111.0	139.7	146.9	316.1	541.7	654.5	688.0	755.1
105°	155.0	130.7	106.4	130.7	155.0	161.1	324.9	543.4	652.6	727.8	878.1
107.5°	176.4	153.8	131.1	153.8	176.4	182.1	326.6	519.2	615.5	720.3	930.0
110°	188.7	168.2	147.8	168.2	188.7	193.8	324.1	497.8	584.6	701.8	936.3



TEST NUMBER: P934215

CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	203.2	183.7	164.2	183.7	203.2	208.1	324.2	479.1	556.5	676.5	916.4
115°	224.9	206.9	188.9	206.9	224.9	229.4	327.2	457.6	522.8	638.4	869.5
117.5°	246.0	229.7	213.3	229.7	246.0	250.1	333.3	444.2	499.6	603.9	812.5
120°	258.3	242.9	227.5	242.9	258.3	262.2	338.2	439.6	490.3	585.6	776.2
122.5°	272.5	257.0	241.5	257.0	272.5	276.4	345.3	437.2	483.2	569.0	740.7
125°	291.1	276.9	262.8	276.9	291.1	294.6	354.9	435.3	475.5	548.4	694.2
127.5°	308.7	294.4	280.1	294.4	308.7	312.3	364.5	434.2	469.0	531.6	656.7
130°	320.2	304.8	289.4	304.8	320.2	324.0	371.5	434.8	466.5	522.2	633.7
132.5°	329.8	314.4	299.0	314.4	329.8	333.6	377.2	435.3	464.4	514.3	614.0
135°	341.2	327.2	313.2	327.2	341.2	344.7	383.4	434.9	460.7	502.5	586.0
137.5°	355.4	341.6	327.7	341.6	355.4	358.9	392.6	437.5	460.0	495.3	565.9
140°	365.3	352.6	339.8	352.6	365.3	368.5	398.3	438.0	457.9	488.4	549.4
142.5°	372.6	360.8	349.0	360.8	372.6	375.6	403.0	439.6	457.9	484.7	538.2
145°	383.9	373.6	363.3	373.6	383.9	386.5	409.3	439.6	454.8	476.7	520.5
147.5°	397.6	387.5	377.5	387.5	397.6	400.1	418.3	442.6	454.8	472.0	506.5
150°	404.9	395.9	386.8	395.9	404.9	407.2	423.1	444.2	454.8	469.4	498.5
152.5°	410.1	403.2	396.3	403.2	410.1	411.8	426.1	445.2	454.8	467.2	492.1
155°	420.7	415.7	410.6	415.7	420.7	422.0	432.9	447.5	454.8	464.7	484.5
157.5°	431.0	426.0	421.1	426.0	431.0	432.2	439.7	449.8	454.8	462.5	477.9
160°	435.8	432.0	428.2	432.0	435.8	436.8	442.8	450.8	454.8	461.4	474.6
162.5°	441.1	438.2	435.3	438.2	441.1	441.8	446.1	451.9	454.8	460.4	471.5
165°	448.2	445.6	443.0	445.6	448.2	448.9	450.9	453.5	454.8	458.8	466.7
167.5°	452.6	451.3	450.1	451.3	452.6	452.9	454.6	456.8	457.9	460.5	465.7
170°	457.3	456.0	454.8	456.0	457.3	457.6	457.7	457.8	457.9	460.5	465.7
172.5°	457.8	457.6	457.3	457.6	457.8	457.9	457.9	457.9	457.9	459.9	464.0
175°	460.7	460.7	460.7	460.7	460.7	460.7	459.8	458.5	457.9	459.2	461.8
177.5°	460.7	460.7	460.7	460.7	460.7	460.7	460.0	459.0	458.5	459.5	461.6
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



TEST NUMBER: P934215
 CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1026.1	1023.1	1027.1	1016.0	1027.1	1023.1	1026.1	1033.1	1027.1	1031.1	1035.2
5°	900.4	895.3	879.2	866.1	879.2	895.3	900.4	921.5	931.5	949.6	973.8
7.5°	804.8	800.8	796.7	788.7	796.7	800.8	804.8	810.8	820.9	837.0	855.1
10°	783.7	784.7	790.7	789.7	790.7	784.7	783.7	781.6	778.6	781.6	792.7
12.5°	838.0	847.0	880.2	878.2	880.2	847.0	838.0	797.7	770.6	765.5	767.6
15°	900.4	903.4	910.4	911.4	910.4	903.4	900.4	884.3	802.8	767.6	756.5
17.5°	906.4	907.4	912.4	912.4	912.4	907.4	906.4	899.3	872.2	824.9	762.5
20°	901.4	903.4	913.4	915.4	913.4	903.4	901.4	892.3	877.2	860.1	812.8
22.5°	899.3	903.4	911.4	910.4	911.4	903.4	899.3	885.3	872.2	860.1	841.0
25°	889.3	889.3	890.3	891.3	890.3	889.3	889.3	878.2	852.1	849.0	838.0
27.5°	868.2	870.2	876.2	875.2	876.2	870.2	868.2	864.1	836.0	833.0	824.9
30°	849.0	847.0	842.0	838.0	842.0	847.0	849.0	843.0	814.8	806.8	808.8
32.5°	816.9	811.8	806.8	803.8	806.8	811.8	816.9	814.8	793.7	782.7	784.7
35°	778.6	779.6	778.6	775.6	778.6	779.6	778.6	780.6	767.6	757.5	756.5
37.5°	751.5	753.5	752.5	748.4	752.5	753.5	751.5	749.5	731.3	728.3	730.3
40°	723.3	724.3	723.3	720.3	723.3	724.3	723.3	719.3	694.1	695.1	702.2
42.5°	696.1	695.1	692.1	690.1	692.1	695.1	696.1	690.1	657.9	654.9	668.0
45°	665.0	666.0	659.9	656.9	659.9	666.0	665.0	660.9	627.7	619.7	628.7
47.5°	633.8	633.8	628.7	625.7	628.7	633.8	633.8	628.7	593.5	585.5	590.5
50°	600.6	599.6	592.5	591.5	592.5	599.6	600.6	597.6	560.3	553.3	553.3
52.5°	562.3	562.3	563.3	565.4	563.3	562.3	562.3	563.3	530.2	523.1	521.1
55°	529.1	530.2	537.2	539.2	537.2	530.2	529.1	529.1	499.0	491.9	487.9
57.5°	494.9	494.9	500.0	500.0	500.0	494.9	494.9	492.9	463.8	457.7	455.7
60°	455.7	457.7	461.7	460.7	461.7	457.7	455.7	453.7	428.5	424.5	417.5
62.5°	414.5	416.5	417.5	415.5	417.5	416.5	414.5	408.4	393.3	390.3	381.3
65°	371.2	373.2	374.2	372.2	374.2	373.2	371.2	368.2	357.1	352.1	344.0
67.5°	326.9	325.9	324.9	329.0	324.9	325.9	326.9	322.9	315.9	311.9	300.8
70°	281.7	281.7	280.7	282.7	280.7	281.7	281.7	278.7	274.6	271.6	261.6
72.5°	233.4	232.4	236.4	233.4	236.4	232.4	233.4	232.4	230.4	227.4	217.3
75°	186.1	188.1	186.1	189.1	186.1	188.1	186.1	187.1	186.1	184.1	177.1
77.5°	141.8	143.9	141.8	141.8	141.8	143.9	141.8	142.8	142.8	142.8	136.8
80°	100.6	99.6	99.6	98.6	99.6	99.6	100.6	100.6	101.6	99.6	97.6
82.5°	64.4	63.4	63.4	65.4	63.4	63.4	64.4	65.4	63.4	63.4	63.4
85°	35.2	36.2	34.2	34.2	34.2	36.2	35.2	33.2	35.2	35.2	34.2
87.5°	13.1	12.1	12.1	12.1	12.1	12.1	13.1	14.1	14.1	14.1	15.1
90°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	15.6	20.9	23.5	20.2
92.5°	58.7	56.4	47.0	37.7	47.0	56.4	58.7	83.2	115.9	132.3	116.2
95°	199.4	192.3	164.0	135.7	164.0	192.3	199.4	261.9	345.2	386.8	326.7
97.5°	460.3	446.8	393.0	339.2	393.0	446.8	460.3	499.8	552.5	578.8	478.6
100°	646.5	630.5	566.3	502.1	566.3	630.5	646.5	643.6	639.7	637.8	526.6
102.5°	805.4	791.7	736.7	681.7	736.7	791.7	805.4	755.1	688.0	654.5	541.7
105°	990.9	983.5	954.0	924.4	954.0	983.5	990.9	878.1	727.8	652.6	543.4
107.5°	1087.3	1089.1	1096.2	1103.4	1096.2	1089.1	1087.3	930.0	720.3	615.5	519.2
110°	1112.1	1119.8	1150.5	1181.3	1150.5	1119.8	1112.1	936.3	701.8	584.6	497.8



TEST NUMBER: P934215

CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1096.3	1108.1	1155.4	1202.6	1155.4	1108.1	1096.3	916.4	676.5	556.5	479.1
115°	1042.8	1059.2	1124.7	1190.3	1124.7	1059.2	1042.8	869.5	638.4	522.8	457.6
117.5°	968.9	987.1	1059.8	1132.5	1059.8	987.1	968.9	812.5	603.9	499.6	444.2
120°	919.1	936.8	1007.4	1078.1	1007.4	936.8	919.1	776.2	585.6	490.3	439.6
122.5°	869.4	886.8	956.5	1026.1	956.5	886.8	869.4	740.7	569.0	483.2	437.2
125°	803.5	819.5	883.7	947.9	883.7	819.5	803.5	694.2	548.4	475.5	435.3
127.5°	750.6	764.1	818.3	872.5	818.3	764.1	750.6	656.7	531.6	469.0	434.2
130°	717.3	729.8	779.8	829.8	779.8	729.8	717.3	633.7	522.2	466.5	434.8
132.5°	688.8	700.0	744.8	789.6	744.8	700.0	688.8	614.0	514.3	464.4	435.3
135°	648.6	658.3	696.9	735.5	696.9	658.3	648.6	586.0	502.5	460.7	434.9
137.5°	618.9	626.8	658.5	690.1	658.5	626.8	618.9	565.9	495.3	460.0	437.5
140°	595.1	602.5	632.0	661.6	632.0	602.5	595.1	549.4	488.4	457.9	438.0
142.5°	578.4	584.8	610.2	635.6	610.2	584.8	578.4	538.2	484.7	457.9	439.6
145°	553.4	558.2	577.5	596.7	577.5	558.2	553.4	520.5	476.7	454.8	439.6
147.5°	532.4	536.4	552.3	568.2	552.3	536.4	532.4	506.5	472.0	454.8	442.6
150°	520.3	523.5	536.5	549.4	536.5	523.5	520.3	498.5	469.4	454.8	444.2
152.5°	510.7	513.1	522.9	532.7	522.9	513.1	510.7	492.1	467.2	454.8	445.2
155°	499.3	500.9	507.4	513.8	507.4	500.9	499.3	484.5	464.7	454.8	447.5
157.5°	489.4	490.5	495.1	499.6	495.1	490.5	489.4	477.9	462.5	454.8	449.8
160°	484.5	485.1	487.7	490.3	487.7	485.1	484.5	474.6	461.4	454.8	450.8
162.5°	479.8	480.4	482.9	485.4	482.9	480.4	479.8	471.5	460.4	454.8	451.9
165°	472.7	473.4	476.0	478.6	476.0	473.4	472.7	466.7	458.8	454.8	453.5
167.5°	469.6	469.9	471.0	472.1	471.0	469.9	469.6	465.7	460.5	457.9	456.8
170°	469.6	469.6	469.6	469.6	469.6	469.6	469.6	465.7	460.5	457.9	457.8
172.5°	467.1	466.9	465.9	465.0	465.9	466.9	467.1	464.0	459.9	457.9	457.9
175°	463.7	463.7	463.7	463.7	463.7	463.7	463.7	461.8	459.2	457.9	458.5
177.5°	463.1	462.8	461.8	460.7	461.8	462.8	463.1	461.6	459.5	458.5	459.0
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



TEST NUMBER: P934215
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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1050.2	1055.3	1058.3	1062.3	1072.4
5°	1010.0	1029.1	1035.2	1050.2	1068.3
7.5°	921.5	979.8	995.9	1032.1	1060.3
10°	836.0	894.3	922.5	1008.0	1050.2
12.5°	792.7	826.9	846.0	965.7	1036.2
15°	765.5	789.7	803.8	909.4	1020.1
17.5°	744.4	761.5	771.6	854.1	997.9
20°	731.3	739.4	748.4	813.8	972.8
22.5°	722.3	717.3	724.3	785.7	938.6
25°	716.3	697.1	705.2	763.5	898.3
27.5°	721.3	679.0	682.1	743.4	856.1
30°	722.3	656.9	657.9	722.3	808.8
32.5°	715.3	633.8	634.8	696.1	755.5
35°	698.1	606.6	605.6	666.0	683.1
37.5°	675.0	577.4	577.4	632.8	603.6
40°	646.8	548.3	551.3	589.5	533.2
42.5°	612.6	517.1	521.1	532.2	480.9
45°	575.4	486.9	489.9	449.7	440.6
47.5°	534.2	455.7	456.7	373.2	427.5
50°	484.9	423.5	419.5	319.9	426.5
52.5°	441.6	388.3	376.2	289.7	387.3
55°	399.4	351.1	324.9	266.6	359.1
57.5°	362.2	302.8	277.7	239.4	353.1
60°	327.9	255.5	236.4	210.2	323.9
62.5°	299.8	220.3	216.3	190.1	293.7
65°	269.6	196.2	195.2	173.0	249.5
67.5°	240.4	180.1	179.1	156.9	190.1
70°	209.2	163.0	161.0	139.8	140.8
72.5°	177.1	143.9	141.8	125.7	116.7
75°	144.9	121.7	120.7	109.7	94.6
77.5°	113.7	96.6	98.6	88.5	69.4
80°	81.5	70.4	72.4	63.4	52.3
82.5°	54.3	46.3	48.3	40.2	35.2
85°	30.2	26.2	27.2	21.1	16.1
87.5°	14.1	12.1	12.1	8.0	5.0
90°	13.6	8.7	8.1	5.6	3.1
92.5°	83.9	59.7	54.4	33.4	12.4
95°	206.4	116.2	106.6	68.1	29.7
97.5°	278.1	127.7	119.2	85.3	51.3
100°	304.1	137.3	129.6	98.8	68.0
102.5°	316.1	146.9	139.7	111.0	82.2
105°	324.9	161.1	155.0	130.7	106.4
107.5°	326.6	182.1	176.4	153.8	131.1
110°	324.1	193.8	188.7	168.2	147.8



TEST NUMBER: P934215
 CATALOG NUMBER: SQ4-FA-050U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	324.2	208.1	203.2	183.7	164.2
115°	327.2	229.4	224.9	206.9	188.9
117.5°	333.3	250.1	246.0	229.7	213.3
120°	338.2	262.2	258.3	242.9	227.5
122.5°	345.3	276.4	272.5	257.0	241.5
125°	354.9	294.6	291.1	276.9	262.8
127.5°	364.5	312.3	308.7	294.4	280.1
130°	371.5	324.0	320.2	304.8	289.4
132.5°	377.2	333.6	329.8	314.4	299.0
135°	383.4	344.7	341.2	327.2	313.2
137.5°	392.6	358.9	355.4	341.6	327.7
140°	398.3	368.5	365.3	352.6	339.8
142.5°	403.0	375.6	372.6	360.8	349.0
145°	409.3	386.5	383.9	373.6	363.3
147.5°	418.3	400.1	397.6	387.5	377.5
150°	423.1	407.2	404.9	395.9	386.8
152.5°	426.1	411.8	410.1	403.2	396.3
155°	432.9	422.0	420.7	415.7	410.6
157.5°	439.7	432.2	431.0	426.0	421.1
160°	442.8	436.8	435.8	432.0	428.2
162.5°	446.1	441.8	441.1	438.2	435.3
165°	450.9	448.9	448.2	445.6	443.0
167.5°	454.6	452.9	452.6	451.3	450.1
170°	457.7	457.6	457.3	456.0	454.8
172.5°	457.9	457.9	457.8	457.6	457.3
175°	459.8	460.7	460.7	460.7	460.7
177.5°	460.0	460.7	460.7	460.7	460.7
180°	460.7	460.7	460.7	460.7	460.7



TEST NUMBER: P934215
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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	11.16	12.00	12.13	12.99	14.29	13.99	14.83	14.96	15.82	17.12
	3H	11.64	12.39	12.62	13.39	14.71	15.33	16.08	16.31	17.08	18.40
	4H	11.83	12.54	12.83	13.54	14.87	15.77	16.49	16.77	17.49	18.82
	6H	11.95	12.60	12.95	13.61	14.95	16.05	16.71	17.06	17.72	19.06
	8H	11.95	12.57	12.96	13.60	14.93	16.13	16.75	17.14	17.78	19.11
	12H	11.92	12.51	12.94	13.53	14.89	16.16	16.76	17.18	17.78	19.14
4H	2H	12.19	12.91	13.19	13.91	15.24	14.39	15.11	15.40	16.11	17.44
	3H	13.22	13.81	14.23	14.84	16.18	15.90	16.49	16.91	17.52	18.86
	4H	13.49	14.04	14.51	15.06	16.42	16.42	16.97	17.44	17.99	19.35
	6H	13.62	14.08	14.65	15.13	16.49	16.78	17.25	17.82	18.30	19.66
	8H	13.62	14.06	14.65	15.10	16.47	16.89	17.33	17.92	18.37	19.74
	12H	13.59	13.98	14.64	15.04	16.42	16.94	17.34	18.00	18.39	19.78
8H	4H	13.94	14.38	14.98	15.42	16.80	16.55	16.98	17.58	18.02	19.40
	6H	14.20	14.57	15.26	15.65	17.02	16.98	17.34	18.04	18.42	19.80
	8H	14.25	14.56	15.31	15.63	17.02	17.13	17.45	18.20	18.51	19.91
	12H	14.23	14.51	15.30	15.57	17.00	17.23	17.51	18.30	18.57	20.00
12H	4H	13.95	14.34	15.00	15.40	16.78	16.51	16.90	17.56	17.96	19.34
	6H	14.26	14.58	15.33	15.65	17.04	16.98	17.29	18.04	18.36	19.75
	8H	14.33	14.61	15.40	15.67	17.10	17.14	17.42	18.20	18.48	19.91