

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: P934614

Luminaire Tested: SQ4-FA-075U-050D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934614
REPORT IS A COMBINATION OF REPORTS P933706 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

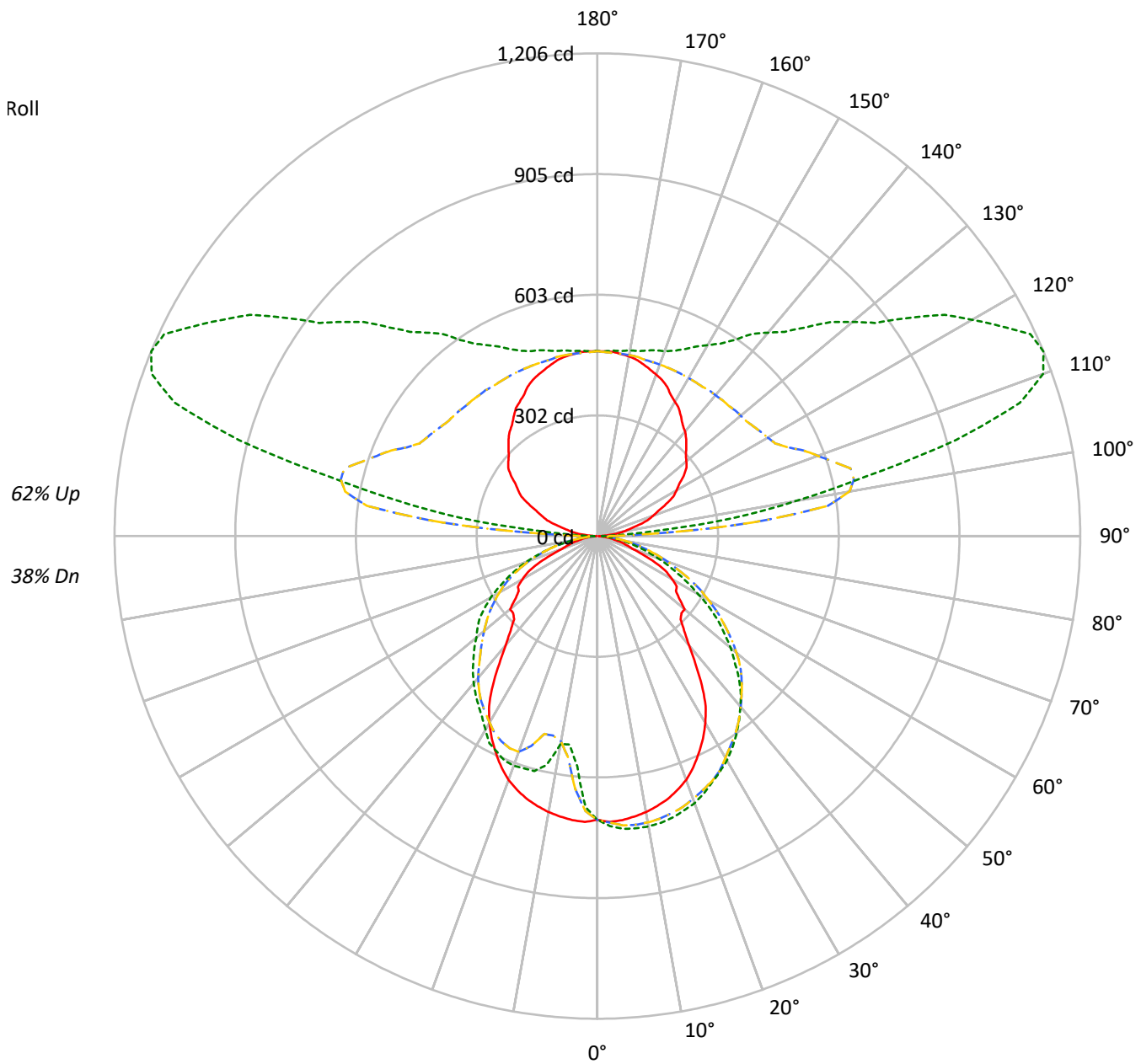
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4834.0 lumens
Efficiency: N/A
Efficacy: 140.5 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: Semi-Indirect

Input Watts (W): 34.4
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: P934614
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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6578	6578	6578	6578
5°	6619	6640	6619	5221
10°	6569	6541	6569	4677
15°	6489	6399	6489	5343
20°	6346	6231	6346	5355
25°	6061	5986	6061	5241
30°	5695	5783	5695	4992
35°	5070	5526	5070	4718
40°	4217	5224	4217	4511
45°	3760	4869	3760	4273
50°	3987	4447	3987	4034
55°	3739	3991	3739	3897
60°	3842	3389	3842	3569
65°	3466	2802	3466	3132
70°	2384	2233	2384	2626
75°	2066	1651	2066	1977
80°	1633	1092	1633	1188
85°	886	577	886	491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5775 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	1.3
10°-20°	181.7	3.8
20°-30°	280.8	5.8
30°-40°	335.3	6.9
40°-50°	337.2	7.0
50°-60°	293.4	6.1
60°-70°	208.1	4.3
70°-80°	110.1	2.3
80°-90°	29.2	0.6
90°-100°	225.2	4.7
100°-110°	591.9	12.2
110°-120°	613.8	12.7
120°-130°	492.3	10.2
130°-140°	386.3	8.0
140°-150°	296.5	6.1
150°-160°	213.5	4.4
160°-170°	130.6	2.7
170°-180°	44.1	0.9
0°-30°	526.5	10.9
0°-40°	861.8	17.8
0°-60°	1492.5	30.9
0°-90°	1839.8	38.1
90°-120°	1430.8	29.6
90°-150°	2606.0	53.9
90°-180°	2994.0	61.9
0°-180°	4834.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	709	709	709	709	709	
5°	712	734	712	577	712	68
15°	680	728	680	608	680	191
25°	599	679	599	594	599	275
35°	455	606	455	517	455	282
45°	294	499	294	438	294	235
55°	239	368	239	360	239	220
65°	166	222	166	248	166	159
75°	63	105	63	126	63	66
85°	11	27	11	23	11	14
90°	3	12	3	12	3	3
95°	30	136	30	136	30	33
105°	107	927	107	927	107	113
115°	189	1194	189	1194	189	187
125°	264	950	264	950	264	234
135°	314	738	314	738	314	243
145°	364	598	364	598	364	228
155°	412	515	412	515	412	189
165°	444	480	444	480	444	125
175°	462	465	462	465	462	44
180°	462	462	462	462	462	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	714.9	714.9	718.9	720.3	720.3	718.3	716.3	718.3	724.3	726.3	725.6
5°	712.2	717.6	725.0	726.3	727.7	727.0	725.6	727.0	733.7	735.0	735.7
7.5°	706.9	716.9	726.3	728.3	730.3	728.3	727.7	729.0	735.7	737.0	737.0
10°	700.2	714.2	725.0	726.3	728.3	726.3	726.3	729.0	735.7	737.0	737.7
12.5°	690.8	710.2	720.3	721.6	724.3	723.6	723.0	725.6	732.4	733.7	733.7
15°	680.0	702.8	712.2	713.6	718.3	716.9	716.9	719.6	727.0	729.0	728.3
17.5°	665.3	693.5	704.2	706.2	709.6	708.9	709.6	712.2	718.9	720.3	721.0
20°	648.5	680.7	693.5	695.5	698.8	698.8	698.8	702.2	708.9	711.6	711.6
22.5°	625.7	667.3	680.7	682.1	686.1	686.1	687.4	692.1	698.1	698.8	698.8
25°	598.9	652.5	663.9	668.0	672.0	674.0	676.0	678.7	680.7	680.0	680.7
27.5°	570.7	633.8	648.5	651.2	656.6	658.6	661.3	661.9	662.6	664.6	663.3
30°	539.2	607.6	629.7	632.4	641.1	642.5	639.8	641.1	644.5	645.8	647.2
32.5°	503.7	568.7	610.3	616.3	624.4	620.4	619.7	621.7	627.1	627.1	628.4
35°	455.4	538.5	592.2	597.6	603.6	598.9	601.6	602.2	605.6	607.6	606.9
37.5°	402.4	512.4	573.4	577.4	582.1	576.1	580.1	582.1	584.8	583.5	583.5
40°	355.4	471.5	551.3	554.0	558.0	553.3	557.3	558.7	560.0	558.7	558.0
42.5°	320.6	426.5	527.8	531.2	528.5	531.8	533.2	535.9	533.8	531.2	531.2
45°	293.7	414.5	502.3	506.3	502.3	507.7	509.7	509.7	503.7	502.3	501.6
47.5°	285.0	390.3	476.8	476.8	474.8	481.5	484.9	480.2	474.2	472.1	472.1
50°	284.4	363.5	442.0	439.3	448.7	456.7	453.4	448.7	444.0	436.6	436.6
52.5°	258.2	330.6	397.0	407.1	421.8	426.5	421.2	416.5	408.4	405.1	402.4
55°	239.4	296.4	356.1	376.2	391.7	397.7	387.6	382.9	370.9	368.9	367.5
57.5°	235.4	246.8	318.6	344.0	362.8	362.2	356.1	347.4	337.3	335.3	334.7
60°	216.0	178.4	278.3	308.5	327.9	325.9	320.6	312.5	303.1	301.8	300.5
62.5°	195.8	129.4	232.7	266.9	294.4	293.7	289.1	277.0	270.3	266.9	264.2
65°	166.3	108.6	165.7	222.0	261.6	262.9	252.8	244.1	236.7	232.7	232.0
67.5°	126.8	88.5	112.0	185.1	230.0	228.7	216.0	211.9	202.5	200.5	196.5
70°	93.9	59.0	77.8	150.2	199.2	195.8	185.8	181.1	172.4	167.7	165.0
72.5°	77.8	47.6	57.0	116.7	167.7	163.6	154.9	149.6	142.2	138.2	135.5
75°	63.0	50.3	43.6	86.5	136.1	133.5	125.4	120.0	114.0	108.6	109.3
77.5°	46.3	46.9	34.9	63.7	108.0	104.0	99.3	92.6	89.9	84.5	84.5
80°	34.9	36.9	26.2	43.6	77.8	77.8	73.8	69.1	64.4	61.7	61.7
82.5°	23.5	23.5	19.4	27.5	53.0	51.0	48.3	46.9	44.3	42.9	42.9
85°	10.7	13.4	12.1	16.8	28.8	30.2	30.2	28.8	28.2	26.8	27.5
87.5°	3.4	6.0	7.4	9.4	14.8	15.4	16.1	16.1	16.1	16.8	16.8
90°	3.1	5.6	8.1	8.7	13.7	20.3	23.6	21.0	15.7	11.8	11.8
92.5°	12.4	33.5	54.5	59.8	84.1	116.5	132.7	116.3	83.5	58.9	56.6
95°	29.8	68.4	107.0	116.6	207.0	327.5	387.8	346.0	262.5	199.9	192.8
97.5°	51.5	85.5	119.5	128.0	278.8	479.8	580.3	553.9	501.2	461.6	448.1
100°	68.2	99.0	129.9	137.6	304.9	528.0	639.5	641.4	645.3	648.2	632.1
102.5°	82.5	111.3	140.0	147.2	316.9	543.2	656.3	689.9	757.1	807.5	793.7
105°	106.6	131.0	155.4	161.5	325.8	544.9	654.4	729.8	880.5	993.5	986.1
107.5°	131.4	154.2	176.9	182.6	327.5	520.6	617.2	722.3	932.5	1090.2	1092.0
110°	148.2	168.7	189.3	194.4	325.0	499.1	586.2	703.7	938.7	1115.0	1122.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	164.6	184.2	203.7	208.6	325.1	480.4	558.0	678.3	918.8	1099.2	1111.1
115°	189.4	207.4	225.5	230.0	328.1	458.8	524.2	640.1	871.8	1045.6	1062.0
117.5°	213.9	230.3	246.7	250.8	334.2	445.3	500.9	605.5	814.6	971.5	989.7
120°	228.2	243.6	259.0	262.9	339.1	440.8	491.6	587.2	778.3	921.6	939.3
122.5°	242.1	257.7	273.2	277.1	346.2	438.4	484.5	570.5	742.6	871.7	889.2
125°	263.5	277.7	291.9	295.4	355.9	436.5	476.8	549.9	696.1	805.7	821.8
127.5°	280.9	295.2	309.5	313.1	365.5	435.4	470.3	533.1	658.6	752.7	766.3
130°	290.2	305.6	321.0	324.9	372.5	436.0	467.8	523.7	635.4	719.2	731.7
132.5°	299.8	315.2	330.6	334.5	378.2	436.5	465.6	515.6	615.7	690.7	701.9
135°	314.0	328.0	342.1	345.6	384.4	436.1	461.9	503.8	587.6	650.4	660.1
137.5°	328.6	342.5	356.4	359.9	393.7	438.8	461.3	496.7	567.5	620.6	628.5
140°	340.7	353.5	366.3	369.5	399.4	439.2	459.1	489.7	550.8	596.7	604.1
142.5°	350.0	361.8	373.6	376.6	404.1	440.8	459.1	486.0	539.7	580.0	586.4
145°	364.2	374.6	384.9	387.5	410.3	440.8	456.0	478.0	521.9	554.9	559.7
147.5°	378.5	388.5	398.6	401.1	419.4	443.8	456.0	473.3	507.9	533.8	537.8
150°	387.8	396.9	406.0	408.3	424.2	445.4	456.0	470.6	499.8	521.7	524.9
152.5°	397.4	404.3	411.2	412.9	427.3	446.4	456.0	468.5	493.4	512.1	514.5
155°	411.7	416.8	421.8	423.1	434.1	448.7	456.0	465.9	485.7	500.6	502.2
157.5°	422.2	427.2	432.2	433.4	440.9	451.0	456.0	463.7	479.1	490.7	491.8
160°	429.3	433.2	437.0	438.0	444.0	452.0	456.0	462.6	475.9	485.8	486.4
162.5°	436.5	439.4	442.3	443.0	447.3	453.1	456.0	461.6	472.7	481.1	481.7
165°	444.2	446.8	449.4	450.1	452.1	454.7	456.0	460.0	468.0	474.0	474.7
167.5°	451.3	452.5	453.8	454.1	455.8	458.0	459.1	461.7	467.0	470.9	471.2
170°	456.0	457.2	458.5	458.8	458.9	459.0	459.1	461.7	467.0	470.9	470.9
172.5°	458.5	458.8	459.0	459.1	459.1	459.1	459.1	461.2	465.3	468.4	468.2
175°	461.9	461.9	461.9	461.9	461.0	459.7	459.1	460.4	463.0	465.0	465.0
177.5°	461.9	461.9	461.9	461.9	461.2	460.2	459.7	460.7	462.8	464.4	464.1
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	727.0	725.0	727.0	725.6	726.3	724.3	718.3	716.3	718.3	720.3	720.3
5°	735.7	734.4	735.7	735.7	735.0	733.7	727.0	725.6	727.0	727.7	726.3
7.5°	738.4	736.4	738.4	737.0	737.0	735.7	729.0	727.7	728.3	730.3	728.3
10°	738.4	736.4	738.4	737.7	737.0	735.7	729.0	726.3	726.3	728.3	726.3
12.5°	735.0	733.7	735.0	733.7	733.7	732.4	725.6	723.0	723.6	724.3	721.6
15°	729.7	727.7	729.7	728.3	729.0	727.0	719.6	716.9	716.9	718.3	713.6
17.5°	721.6	718.9	721.6	721.0	720.3	718.9	712.2	709.6	708.9	709.6	706.2
20°	712.2	710.2	712.2	711.6	711.6	708.9	702.2	698.8	698.8	698.8	695.5
22.5°	697.5	695.5	697.5	698.8	698.8	698.1	692.1	687.4	686.1	686.1	682.1
25°	680.7	678.7	680.7	680.7	680.0	680.7	678.7	676.0	674.0	672.0	668.0
27.5°	664.6	663.3	664.6	663.3	664.6	662.6	661.9	661.3	658.6	656.6	651.2
30°	648.5	647.2	648.5	647.2	645.8	644.5	641.1	639.8	642.5	641.1	632.4
32.5°	628.4	627.1	628.4	628.4	627.1	627.1	621.7	619.7	620.4	624.4	616.3
35°	607.6	605.6	607.6	606.9	607.6	605.6	602.2	601.6	598.9	603.6	597.6
37.5°	583.5	581.5	583.5	583.5	583.5	584.8	582.1	580.1	576.1	582.1	577.4
40°	558.7	556.0	558.7	558.0	558.7	560.0	558.7	557.3	553.3	558.0	554.0
42.5°	530.5	529.8	530.5	531.2	531.2	533.8	535.9	533.2	531.8	528.5	531.2
45°	500.3	499.0	500.3	501.6	502.3	503.7	509.7	509.7	507.7	502.3	506.3
47.5°	468.1	464.8	468.1	472.1	472.1	474.2	480.2	484.9	481.5	474.8	476.8
50°	433.9	434.6	433.9	436.6	436.6	444.0	448.7	453.4	456.7	448.7	439.3
52.5°	400.4	399.7	400.4	402.4	405.1	408.4	416.5	421.2	426.5	421.8	407.1
55°	366.8	368.2	366.8	367.5	368.9	370.9	382.9	387.6	397.7	391.7	376.2
57.5°	333.3	331.3	333.3	334.7	335.3	337.3	347.4	356.1	362.2	362.8	344.0
60°	294.4	291.7	294.4	300.5	301.8	303.1	312.5	320.6	325.9	327.9	308.5
62.5°	260.2	255.5	260.2	264.2	266.9	270.3	277.0	289.1	293.7	294.4	266.9
65°	224.0	222.0	224.0	232.0	232.7	236.7	244.1	252.8	262.9	261.6	222.0
67.5°	191.1	191.1	191.1	196.5	200.5	202.5	211.9	216.0	228.7	230.0	185.1
70°	161.0	160.3	161.0	165.0	167.7	172.4	181.1	185.8	195.8	199.2	150.2
72.5°	132.1	131.4	132.1	135.5	138.2	142.2	149.6	154.9	163.6	167.7	116.7
75°	106.6	105.3	106.6	109.3	108.6	114.0	120.0	125.4	133.5	136.1	86.5
77.5°	81.8	81.8	81.8	84.5	84.5	89.9	92.6	99.3	104.0	108.0	63.7
80°	61.0	60.4	61.0	61.7	61.7	64.4	69.1	73.8	77.8	77.8	43.6
82.5°	42.9	41.6	42.9	42.9	42.9	44.3	46.9	48.3	51.0	53.0	27.5
85°	26.8	26.8	26.8	27.5	26.8	28.2	28.8	30.2	30.2	28.8	16.8
87.5°	17.4	16.8	17.4	16.8	16.8	16.1	16.1	16.1	15.4	14.8	9.4
90°	11.8	11.8	11.8	11.8	11.8	15.7	21.0	23.6	20.3	13.7	8.7
92.5°	47.2	37.8	47.2	56.6	58.9	83.5	116.3	132.7	116.5	84.1	59.8
95°	164.5	136.1	164.5	192.8	199.9	262.5	346.0	387.8	327.5	207.0	116.6
97.5°	394.1	340.1	394.1	448.1	461.6	501.2	553.9	580.3	479.8	278.8	128.0
100°	567.8	503.4	567.8	632.1	648.2	645.3	641.4	639.5	528.0	304.9	137.6
102.5°	738.6	683.5	738.6	793.7	807.5	757.1	689.9	656.3	543.2	316.9	147.2
105°	956.5	926.9	956.5	986.1	993.5	880.5	729.8	654.4	544.9	325.8	161.5
107.5°	1099.2	1106.4	1099.2	1092.0	1090.2	932.5	722.3	617.2	520.6	327.5	182.6
110°	1153.6	1184.5	1153.6	1122.7	1115.0	938.7	703.7	586.2	499.1	325.0	194.4



TEST NUMBER: P934614

CATALOG NUMBER: SQ4-FA-075U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1158.5	1205.9	1158.5	1111.1	1099.2	918.8	678.3	558.0	480.4	325.1	208.6
115°	1127.8	1193.5	1127.8	1062.0	1045.6	871.8	640.1	524.2	458.8	328.1	230.0
117.5°	1062.6	1135.5	1062.6	989.7	971.5	814.6	605.5	500.9	445.3	334.2	250.8
120°	1010.1	1080.9	1010.1	939.3	921.6	778.3	587.2	491.6	440.8	339.1	262.9
122.5°	959.0	1028.9	959.0	889.2	871.7	742.6	570.5	484.5	438.4	346.2	277.1
125°	886.1	950.4	886.1	821.8	805.7	696.1	549.9	476.8	436.5	355.9	295.4
127.5°	820.5	874.8	820.5	766.3	752.7	658.6	533.1	470.3	435.4	365.5	313.1
130°	781.9	832.0	781.9	731.7	719.2	635.4	523.7	467.8	436.0	372.5	324.9
132.5°	746.8	791.7	746.8	701.9	690.7	615.7	515.6	465.6	436.5	378.2	334.5
135°	698.8	737.5	698.8	660.1	650.4	587.6	503.8	461.9	436.1	384.4	345.6
137.5°	660.2	691.9	660.2	628.5	620.6	567.5	496.7	461.3	438.8	393.7	359.9
140°	633.8	663.4	633.8	604.1	596.7	550.8	489.7	459.1	439.2	399.4	369.5
142.5°	611.8	637.3	611.8	586.4	580.0	539.7	486.0	459.1	440.8	404.1	376.6
145°	579.0	598.3	579.0	559.7	554.9	521.9	478.0	456.0	440.8	410.3	387.5
147.5°	553.8	569.8	553.8	537.8	533.8	507.9	473.3	456.0	443.8	419.4	401.1
150°	537.9	550.9	537.9	524.9	521.7	499.8	470.6	456.0	445.4	424.2	408.3
152.5°	524.3	534.1	524.3	514.5	512.1	493.4	468.5	456.0	446.4	427.3	412.9
155°	508.7	515.2	508.7	502.2	500.6	485.7	465.9	456.0	448.7	434.1	423.1
157.5°	496.4	500.9	496.4	491.8	490.7	479.1	463.7	456.0	451.0	440.9	433.4
160°	489.0	491.6	489.0	486.4	485.8	475.9	462.6	456.0	452.0	444.0	438.0
162.5°	484.2	486.7	484.2	481.7	481.1	472.7	461.6	456.0	453.1	447.3	443.0
165°	477.3	479.9	477.3	474.7	474.0	468.0	460.0	456.0	454.7	452.1	450.1
167.5°	472.3	473.4	472.3	471.2	470.9	467.0	461.7	459.1	458.0	455.8	454.1
170°	470.9	470.9	470.9	470.9	470.9	467.0	461.7	459.1	459.0	458.9	458.8
172.5°	467.2	466.2	467.2	468.2	468.4	465.3	461.2	459.1	459.1	459.1	459.1
175°	465.0	465.0	465.0	465.0	465.0	463.0	460.4	459.1	459.7	461.0	461.9
177.5°	463.0	461.9	463.0	464.1	464.4	462.8	460.7	459.7	460.2	461.2	461.9
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



TEST NUMBER: P934614

CATALOG NUMBER: SQ4-FA-075U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	718.9	714.9	714.9	708.2	705.5	703.5	700.2	690.1	687.4	684.7	688.8
5°	725.0	717.6	712.2	700.2	690.1	686.1	673.3	649.2	633.1	621.0	614.3
7.5°	726.3	716.9	706.9	688.1	663.9	653.2	614.3	570.1	558.0	547.3	540.5
10°	725.0	714.2	700.2	672.0	615.0	596.2	557.3	528.5	521.1	519.1	521.1
12.5°	720.3	710.2	690.8	643.8	564.0	551.3	528.5	511.7	510.4	513.7	531.8
15°	712.2	702.8	680.0	606.3	535.9	526.5	510.4	504.3	511.7	535.2	589.5
17.5°	704.2	693.5	665.3	569.4	514.4	507.7	496.3	508.4	549.9	581.5	599.6
20°	693.5	680.7	648.5	542.6	499.0	492.9	487.6	541.9	573.4	584.8	594.9
22.5°	680.7	667.3	625.7	523.8	482.9	478.2	481.5	560.7	573.4	581.5	590.2
25°	663.9	652.5	598.9	509.0	470.1	464.8	477.5	558.7	566.0	568.0	585.5
27.5°	648.5	633.8	570.7	495.6	454.7	452.7	480.9	549.9	555.3	557.3	576.1
30°	629.7	607.6	539.2	481.5	438.6	437.9	481.5	539.2	537.9	543.2	562.0
32.5°	610.3	568.7	503.7	464.1	423.2	422.5	476.8	523.1	521.8	529.1	543.2
35°	592.2	538.5	455.4	444.0	403.7	404.4	465.4	504.3	505.0	511.7	520.4
37.5°	573.4	512.4	402.4	421.8	385.0	385.0	450.0	486.9	485.6	487.6	499.6
40°	551.3	471.5	355.4	393.0	367.5	365.5	431.2	468.1	463.4	462.8	479.5
42.5°	527.8	426.5	320.6	354.8	347.4	344.7	408.4	445.3	436.6	438.6	460.1
45°	502.3	414.5	293.7	299.8	326.6	324.6	383.6	419.2	413.1	418.5	440.6
47.5°	476.8	390.3	285.0	248.8	304.5	303.8	356.1	393.7	390.3	395.7	419.2
50°	442.0	363.5	284.4	213.3	279.7	282.3	323.3	368.9	368.9	373.6	398.4
52.5°	397.0	330.6	258.2	193.1	250.8	258.9	294.4	347.4	348.7	353.4	375.6
55°	356.1	296.4	239.4	177.7	216.6	234.1	266.2	325.3	327.9	332.6	352.8
57.5°	318.6	246.8	235.4	159.6	185.1	201.9	241.4	303.8	305.1	309.2	328.6
60°	278.3	178.4	216.0	140.2	157.6	170.3	218.6	278.3	283.0	285.7	302.5
62.5°	232.7	129.4	195.8	126.8	144.2	146.9	199.9	254.2	260.2	262.2	272.3
65°	165.7	108.6	166.3	115.4	130.1	130.8	179.7	229.4	234.7	238.1	245.5
67.5°	112.0	88.5	126.8	104.6	119.4	120.0	160.3	200.5	207.9	210.6	215.3
70°	77.8	59.0	93.9	93.2	107.3	108.6	139.5	174.4	181.1	183.1	185.8
72.5°	57.0	47.6	77.8	83.8	94.6	95.9	118.0	144.9	151.6	153.6	154.9
75°	43.6	50.3	63.0	73.1	80.5	81.1	96.6	118.0	122.7	124.1	124.7
77.5°	34.9	46.9	46.3	59.0	65.7	64.4	75.8	91.2	95.2	95.2	95.2
80°	26.2	36.9	34.9	42.3	48.3	46.9	54.3	65.1	66.4	67.7	67.1
82.5°	19.4	23.5	23.5	26.8	32.2	30.9	36.2	42.3	42.3	42.3	43.6
85°	12.1	13.4	10.7	14.1	18.1	17.4	20.1	22.8	23.5	23.5	22.1
87.5°	7.4	6.0	3.4	5.4	8.0	8.0	9.4	10.1	9.4	9.4	9.4
90°	8.1	5.6	3.1	5.6	8.1	8.7	13.7	20.3	23.6	21.0	15.7
92.5°	54.5	33.5	12.4	33.5	54.5	59.8	84.1	116.5	132.7	116.3	83.5
95°	107.0	68.4	29.8	68.4	107.0	116.6	207.0	327.5	387.8	346.0	262.5
97.5°	119.5	85.5	51.5	85.5	119.5	128.0	278.8	479.8	580.3	553.9	501.2
100°	129.9	99.0	68.2	99.0	129.9	137.6	304.9	528.0	639.5	641.4	645.3
102.5°	140.0	111.3	82.5	111.3	140.0	147.2	316.9	543.2	656.3	689.9	757.1
105°	155.4	131.0	106.6	131.0	155.4	161.5	325.8	544.9	654.4	729.8	880.5
107.5°	176.9	154.2	131.4	154.2	176.9	182.6	327.5	520.6	617.2	722.3	932.5
110°	189.3	168.7	148.2	168.7	189.3	194.4	325.0	499.1	586.2	703.7	938.7



TEST NUMBER: P934614

CATALOG NUMBER: SQ4-FA-075U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	203.7	184.2	164.6	184.2	203.7	208.6	325.1	480.4	558.0	678.3	918.8
115°	225.5	207.4	189.4	207.4	225.5	230.0	328.1	458.8	524.2	640.1	871.8
117.5°	246.7	230.3	213.9	230.3	246.7	250.8	334.2	445.3	500.9	605.5	814.6
120°	259.0	243.6	228.2	243.6	259.0	262.9	339.1	440.8	491.6	587.2	778.3
122.5°	273.2	257.7	242.1	257.7	273.2	277.1	346.2	438.4	484.5	570.5	742.6
125°	291.9	277.7	263.5	277.7	291.9	295.4	355.9	436.5	476.8	549.9	696.1
127.5°	309.5	295.2	280.9	295.2	309.5	313.1	365.5	435.4	470.3	533.1	658.6
130°	321.0	305.6	290.2	305.6	321.0	324.9	372.5	436.0	467.8	523.7	635.4
132.5°	330.6	315.2	299.8	315.2	330.6	334.5	378.2	436.5	465.6	515.6	615.7
135°	342.1	328.0	314.0	328.0	342.1	345.6	384.4	436.1	461.9	503.8	587.6
137.5°	356.4	342.5	328.6	342.5	356.4	359.9	393.7	438.8	461.3	496.7	567.5
140°	366.3	353.5	340.7	353.5	366.3	369.5	399.4	439.2	459.1	489.7	550.8
142.5°	373.6	361.8	350.0	361.8	373.6	376.6	404.1	440.8	459.1	486.0	539.7
145°	384.9	374.6	364.2	374.6	384.9	387.5	410.3	440.8	456.0	478.0	521.9
147.5°	398.6	388.5	378.5	388.5	398.6	401.1	419.4	443.8	456.0	473.3	507.9
150°	406.0	396.9	387.8	396.9	406.0	408.3	424.2	445.4	456.0	470.6	499.8
152.5°	411.2	404.3	397.4	404.3	411.2	412.9	427.3	446.4	456.0	468.5	493.4
155°	421.8	416.8	411.7	416.8	421.8	423.1	434.1	448.7	456.0	465.9	485.7
157.5°	432.2	427.2	422.2	427.2	432.2	433.4	440.9	451.0	456.0	463.7	479.1
160°	437.0	433.2	429.3	433.2	437.0	438.0	444.0	452.0	456.0	462.6	475.9
162.5°	442.3	439.4	436.5	439.4	442.3	443.0	447.3	453.1	456.0	461.6	472.7
165°	449.4	446.8	444.2	446.8	449.4	450.1	452.1	454.7	456.0	460.0	468.0
167.5°	453.8	452.5	451.3	452.5	453.8	454.1	455.8	458.0	459.1	461.7	467.0
170°	458.5	457.2	456.0	457.2	458.5	458.8	458.9	459.0	459.1	461.7	467.0
172.5°	459.0	458.8	458.5	458.8	459.0	459.1	459.1	459.1	459.1	461.2	465.3
175°	461.9	461.9	461.9	461.9	461.9	461.9	461.0	459.7	459.1	460.4	463.0
177.5°	461.9	461.9	461.9	461.9	461.9	461.9	461.2	460.2	459.7	460.7	462.8
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



TEST NUMBER: P934614
 CATALOG NUMBER: SQ4-FA-075U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	684.1	682.1	684.7	677.4	684.7	682.1	684.1	688.8	684.7	687.4	690.1
5°	600.2	596.9	586.2	577.4	586.2	596.9	600.2	614.3	621.0	633.1	649.2
7.5°	536.5	533.8	531.2	525.8	531.2	533.8	536.5	540.5	547.3	558.0	570.1
10°	522.4	523.1	527.1	526.5	527.1	523.1	522.4	521.1	519.1	521.1	528.5
12.5°	558.7	564.7	586.8	585.5	586.8	564.7	558.7	531.8	513.7	510.4	511.7
15°	600.2	602.2	606.9	607.6	606.9	602.2	600.2	589.5	535.2	511.7	504.3
17.5°	604.3	604.9	608.3	608.3	608.3	604.9	604.3	599.6	581.5	549.9	508.4
20°	600.9	602.2	609.0	610.3	609.0	602.2	600.9	594.9	584.8	573.4	541.9
22.5°	599.6	602.2	607.6	606.9	607.6	602.2	599.6	590.2	581.5	573.4	560.7
25°	592.9	592.9	593.5	594.2	593.5	592.9	592.9	585.5	568.0	566.0	558.7
27.5°	578.8	580.1	584.1	583.5	584.1	580.1	578.8	576.1	557.3	555.3	549.9
30°	566.0	564.7	561.3	558.7	561.3	564.7	566.0	562.0	543.2	537.9	539.2
32.5°	544.6	541.2	537.9	535.9	537.9	541.2	544.6	543.2	529.1	521.8	523.1
35°	519.1	519.8	519.1	517.1	519.1	519.8	519.1	520.4	511.7	505.0	504.3
37.5°	501.0	502.3	501.6	499.0	501.6	502.3	501.0	499.6	487.6	485.6	486.9
40°	482.2	482.9	482.2	480.2	482.2	482.9	482.2	479.5	462.8	463.4	468.1
42.5°	464.1	463.4	461.4	460.1	461.4	463.4	464.1	460.1	438.6	436.6	445.3
45°	443.3	444.0	439.9	437.9	439.9	444.0	443.3	440.6	418.5	413.1	419.2
47.5°	422.5	422.5	419.2	417.1	419.2	422.5	422.5	419.2	395.7	390.3	393.7
50°	400.4	399.7	395.0	394.3	395.0	399.7	400.4	398.4	373.6	368.9	368.9
52.5°	374.9	374.9	375.6	376.9	375.6	374.9	374.9	375.6	353.4	348.7	347.4
55°	352.8	353.4	358.1	359.5	358.1	353.4	352.8	352.8	332.6	327.9	325.3
57.5°	330.0	330.0	333.3	333.3	333.3	330.0	330.0	328.6	309.2	305.1	303.8
60°	303.8	305.1	307.8	307.2	307.8	305.1	303.8	302.5	285.7	283.0	278.3
62.5°	276.3	277.7	278.3	277.0	278.3	277.7	276.3	272.3	262.2	260.2	254.2
65°	247.5	248.8	249.5	248.1	249.5	248.8	247.5	245.5	238.1	234.7	229.4
67.5°	218.0	217.3	216.6	219.3	216.6	217.3	218.0	215.3	210.6	207.9	200.5
70°	187.8	187.8	187.1	188.5	187.1	187.8	187.8	185.8	183.1	181.1	174.4
72.5°	155.6	154.9	157.6	155.6	157.6	154.9	155.6	154.9	153.6	151.6	144.9
75°	124.1	125.4	124.1	126.1	124.1	125.4	124.1	124.7	124.1	122.7	118.0
77.5°	94.6	95.9	94.6	94.6	94.6	95.9	94.6	95.2	95.2	95.2	91.2
80°	67.1	66.4	66.4	65.7	66.4	66.4	67.1	67.1	67.7	66.4	65.1
82.5°	42.9	42.3	42.3	43.6	42.3	42.3	42.9	43.6	42.3	42.3	42.3
85°	23.5	24.1	22.8	22.8	22.8	24.1	23.5	22.1	23.5	23.5	22.8
87.5°	8.7	8.0	8.0	8.0	8.0	8.0	8.7	9.4	9.4	9.4	10.1
90°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	15.7	21.0	23.6	20.3
92.5°	58.9	56.6	47.2	37.8	47.2	56.6	58.9	83.5	116.3	132.7	116.5
95°	199.9	192.8	164.5	136.1	164.5	192.8	199.9	262.5	346.0	387.8	327.5
97.5°	461.6	448.1	394.1	340.1	394.1	448.1	461.6	501.2	553.9	580.3	479.8
100°	648.2	632.1	567.8	503.4	567.8	632.1	648.2	645.3	641.4	639.5	528.0
102.5°	807.5	793.7	738.6	683.5	738.6	793.7	807.5	757.1	689.9	656.3	543.2
105°	993.5	986.1	956.5	926.9	956.5	986.1	993.5	880.5	729.8	654.4	544.9
107.5°	1090.2	1092.0	1099.2	1106.4	1099.2	1092.0	1090.2	932.5	722.3	617.2	520.6
110°	1115.0	1122.7	1153.6	1184.5	1153.6	1122.7	1115.0	938.7	703.7	586.2	499.1



TEST NUMBER: P934614

CATALOG NUMBER: SQ4-FA-075U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1099.2	1111.1	1158.5	1205.9	1158.5	1111.1	1099.2	918.8	678.3	558.0	480.4
115°	1045.6	1062.0	1127.8	1193.5	1127.8	1062.0	1045.6	871.8	640.1	524.2	458.8
117.5°	971.5	989.7	1062.6	1135.5	1062.6	989.7	971.5	814.6	605.5	500.9	445.3
120°	921.6	939.3	1010.1	1080.9	1010.1	939.3	921.6	778.3	587.2	491.6	440.8
122.5°	871.7	889.2	959.0	1028.9	959.0	889.2	871.7	742.6	570.5	484.5	438.4
125°	805.7	821.8	886.1	950.4	886.1	821.8	805.7	696.1	549.9	476.8	436.5
127.5°	752.7	766.3	820.5	874.8	820.5	766.3	752.7	658.6	533.1	470.3	435.4
130°	719.2	731.7	781.9	832.0	781.9	731.7	719.2	635.4	523.7	467.8	436.0
132.5°	690.7	701.9	746.8	791.7	746.8	701.9	690.7	615.7	515.6	465.6	436.5
135°	650.4	660.1	698.8	737.5	698.8	660.1	650.4	587.6	503.8	461.9	436.1
137.5°	620.6	628.5	660.2	691.9	660.2	628.5	620.6	567.5	496.7	461.3	438.8
140°	596.7	604.1	633.8	663.4	633.8	604.1	596.7	550.8	489.7	459.1	439.2
142.5°	580.0	586.4	611.8	637.3	611.8	586.4	580.0	539.7	486.0	459.1	440.8
145°	554.9	559.7	579.0	598.3	579.0	559.7	554.9	521.9	478.0	456.0	440.8
147.5°	533.8	537.8	553.8	569.8	553.8	537.8	533.8	507.9	473.3	456.0	443.8
150°	521.7	524.9	537.9	550.9	537.9	524.9	521.7	499.8	470.6	456.0	445.4
152.5°	512.1	514.5	524.3	534.1	524.3	514.5	512.1	493.4	468.5	456.0	446.4
155°	500.6	502.2	508.7	515.2	508.7	502.2	500.6	485.7	465.9	456.0	448.7
157.5°	490.7	491.8	496.4	500.9	496.4	491.8	490.7	479.1	463.7	456.0	451.0
160°	485.8	486.4	489.0	491.6	489.0	486.4	485.8	475.9	462.6	456.0	452.0
162.5°	481.1	481.7	484.2	486.7	484.2	481.7	481.1	472.7	461.6	456.0	453.1
165°	474.0	474.7	477.3	479.9	477.3	474.7	474.0	468.0	460.0	456.0	454.7
167.5°	470.9	471.2	472.3	473.4	472.3	471.2	470.9	467.0	461.7	459.1	458.0
170°	470.9	470.9	470.9	470.9	470.9	470.9	470.9	467.0	461.7	459.1	459.0
172.5°	468.4	468.2	467.2	466.2	467.2	468.2	468.4	465.3	461.2	459.1	459.1
175°	465.0	465.0	465.0	465.0	465.0	465.0	465.0	463.0	460.4	459.1	459.7
177.5°	464.4	464.1	463.0	461.9	463.0	464.1	464.4	462.8	460.7	459.7	460.2
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



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CATALOG NUMBER: SQ4-FA-075U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	708.9	708.9	708.9	708.9	708.9
2.5°	700.2	703.5	705.5	708.2	714.9
5°	673.3	686.1	690.1	700.2	712.2
7.5°	614.3	653.2	663.9	688.1	706.9
10°	557.3	596.2	615.0	672.0	700.2
12.5°	528.5	551.3	564.0	643.8	690.8
15°	510.4	526.5	535.9	606.3	680.0
17.5°	496.3	507.7	514.4	569.4	665.3
20°	487.6	492.9	499.0	542.6	648.5
22.5°	481.5	478.2	482.9	523.8	625.7
25°	477.5	464.8	470.1	509.0	598.9
27.5°	480.9	452.7	454.7	495.6	570.7
30°	481.5	437.9	438.6	481.5	539.2
32.5°	476.8	422.5	423.2	464.1	503.7
35°	465.4	404.4	403.7	444.0	455.4
37.5°	450.0	385.0	385.0	421.8	402.4
40°	431.2	365.5	367.5	393.0	355.4
42.5°	408.4	344.7	347.4	354.8	320.6
45°	383.6	324.6	326.6	299.8	293.7
47.5°	356.1	303.8	304.5	248.8	285.0
50°	323.3	282.3	279.7	213.3	284.4
52.5°	294.4	258.9	250.8	193.1	258.2
55°	266.2	234.1	216.6	177.7	239.4
57.5°	241.4	201.9	185.1	159.6	235.4
60°	218.6	170.3	157.6	140.2	216.0
62.5°	199.9	146.9	144.2	126.8	195.8
65°	179.7	130.8	130.1	115.4	166.3
67.5°	160.3	120.0	119.4	104.6	126.8
70°	139.5	108.6	107.3	93.2	93.9
72.5°	118.0	95.9	94.6	83.8	77.8
75°	96.6	81.1	80.5	73.1	63.0
77.5°	75.8	64.4	65.7	59.0	46.3
80°	54.3	46.9	48.3	42.3	34.9
82.5°	36.2	30.9	32.2	26.8	23.5
85°	20.1	17.4	18.1	14.1	10.7
87.5°	9.4	8.0	8.0	5.4	3.4
90°	13.7	8.7	8.1	5.6	3.1
92.5°	84.1	59.8	54.5	33.5	12.4
95°	207.0	116.6	107.0	68.4	29.8
97.5°	278.8	128.0	119.5	85.5	51.5
100°	304.9	137.6	129.9	99.0	68.2
102.5°	316.9	147.2	140.0	111.3	82.5
105°	325.8	161.5	155.4	131.0	106.6
107.5°	327.5	182.6	176.9	154.2	131.4
110°	325.0	194.4	189.3	168.7	148.2



TEST NUMBER: P934614

CATALOG NUMBER: SQ4-FA-075U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	325.1	208.6	203.7	184.2	164.6
115°	328.1	230.0	225.5	207.4	189.4
117.5°	334.2	250.8	246.7	230.3	213.9
120°	339.1	262.9	259.0	243.6	228.2
122.5°	346.2	277.1	273.2	257.7	242.1
125°	355.9	295.4	291.9	277.7	263.5
127.5°	365.5	313.1	309.5	295.2	280.9
130°	372.5	324.9	321.0	305.6	290.2
132.5°	378.2	334.5	330.6	315.2	299.8
135°	384.4	345.6	342.1	328.0	314.0
137.5°	393.7	359.9	356.4	342.5	328.6
140°	399.4	369.5	366.3	353.5	340.7
142.5°	404.1	376.6	373.6	361.8	350.0
145°	410.3	387.5	384.9	374.6	364.2
147.5°	419.4	401.1	398.6	388.5	378.5
150°	424.2	408.3	406.0	396.9	387.8
152.5°	427.3	412.9	411.2	404.3	397.4
155°	434.1	423.1	421.8	416.8	411.7
157.5°	440.9	433.4	432.2	427.2	422.2
160°	444.0	438.0	437.0	433.2	429.3
162.5°	447.3	443.0	442.3	439.4	436.5
165°	452.1	450.1	449.4	446.8	444.2
167.5°	455.8	454.1	453.8	452.5	451.3
170°	458.9	458.8	458.5	457.2	456.0
172.5°	459.1	459.1	459.0	458.8	458.5
175°	461.0	461.9	461.9	461.9	461.9
177.5°	461.2	461.9	461.9	461.9	461.9
180°	461.9	461.9	461.9	461.9	461.9



TEST NUMBER: P934614
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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	10.12	10.89	11.18	11.94	13.38	12.92	13.68	13.97	14.74	16.17
	3H	10.59	11.28	11.65	12.34	13.79	14.25	14.93	15.31	16.00	17.45
	4H	10.78	11.43	11.85	12.49	13.95	14.68	15.33	15.75	16.40	17.85
	6H	10.89	11.49	11.98	12.56	14.03	14.95	15.55	16.04	16.62	18.09
	8H	10.89	11.46	11.98	12.55	14.01	15.02	15.59	16.11	16.67	18.14
	12H	10.86	11.40	11.95	12.48	13.97	15.05	15.59	16.14	16.67	18.16
4H	2H	11.13	11.78	12.22	12.85	14.31	13.32	13.97	14.40	15.03	16.49
	3H	12.15	12.69	13.24	13.79	15.26	14.81	15.35	15.89	16.44	17.91
	4H	12.42	12.92	13.52	14.00	15.50	15.32	15.82	16.42	16.90	18.39
	6H	12.54	12.97	13.65	14.08	15.56	15.67	16.10	16.78	17.21	18.69
	8H	12.55	12.94	13.65	14.05	15.55	15.77	16.17	16.88	17.27	18.77
	12H	12.51	12.87	13.63	13.98	15.49	15.82	16.18	16.94	17.29	18.80
8H	4H	12.86	13.26	13.97	14.36	15.86	15.44	15.84	16.54	16.94	18.44
	6H	13.12	13.45	14.25	14.59	16.09	15.86	16.19	16.99	17.33	18.83
	8H	13.16	13.45	14.29	14.57	16.09	16.01	16.30	17.14	17.42	18.94
	12H	13.14	13.40	14.28	14.52	16.07	16.10	16.35	17.23	17.47	19.02
12H	4H	12.86	13.22	13.98	14.34	15.84	15.40	15.76	16.52	16.87	18.38
	6H	13.18	13.47	14.31	14.59	16.11	15.86	16.15	16.99	17.27	18.79
	8H	13.24	13.49	14.38	14.62	16.17	16.01	16.26	17.15	17.38	18.94