

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: P934650

Luminaire Tested: SQ4-FA-075U-050D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934650
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

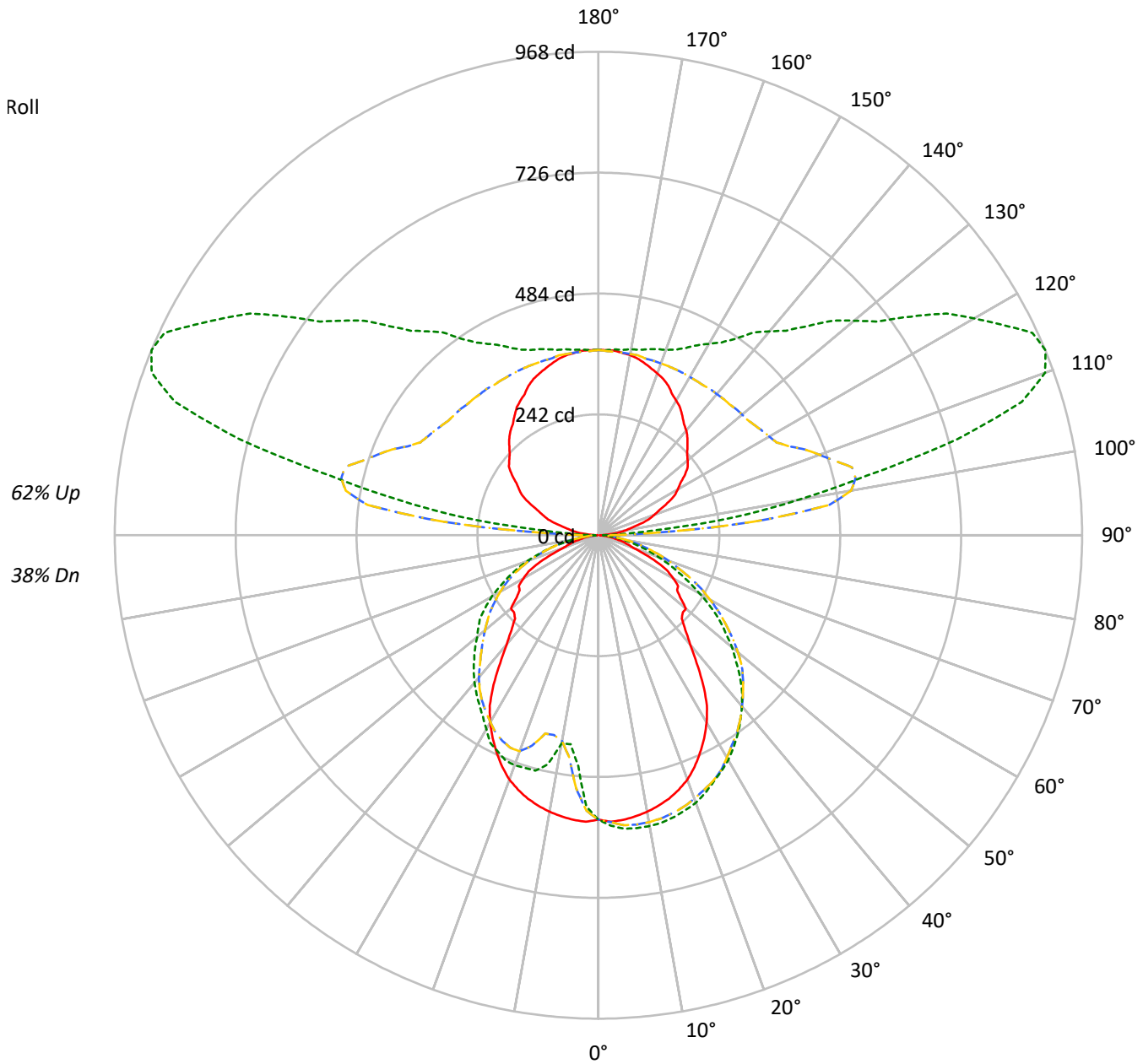
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3881.7 lumens
Efficiency: N/A
Efficacy: 112.8 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: 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

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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°	5282	5282	5282	5282
5°	5315	5332	5315	4193
10°	5275	5252	5275	3755
15°	5210	5138	5210	4291
20°	5095	5004	5095	4300
25°	4867	4807	4867	4208
30°	4573	4644	4573	4009
35°	4071	4437	4071	3789
40°	3386	4195	3386	3623
45°	3019	3910	3019	3431
50°	3202	3571	3202	3239
55°	3002	3205	3002	3129
60°	3084	2721	3084	2866
65°	2782	2251	2782	2514
70°	1914	1793	1914	2109
75°	1659	1326	1659	1588
80°	1310	877	1310	955
85°	712	463	712	394

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4637 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	1.3
10°-20°	145.9	3.8
20°-30°	225.5	5.8
30°-40°	269.2	6.9
40°-50°	270.8	7.0
50°-60°	235.6	6.1
60°-70°	167.1	4.3
70°-80°	88.4	2.3
80°-90°	23.4	0.6
90°-100°	180.8	4.7
100°-110°	475.3	12.2
110°-120°	492.9	12.7
120°-130°	395.3	10.2
130°-140°	310.2	8.0
140°-150°	238.1	6.1
150°-160°	171.5	4.4
160°-170°	104.9	2.7
170°-180°	35.4	0.9
0°-30°	422.8	10.9
0°-40°	692.0	17.8
0°-60°	1198.4	30.9
0°-90°	1477.3	38.1
90°-120°	1149.0	29.6
90°-150°	2092.6	53.9
90°-180°	2404.0	61.9
0°-180°	3881.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	569	569	569	569	569	
5°	572	590	572	464	572	54
15°	546	584	546	488	546	154
25°	481	545	481	477	481	221
35°	366	486	366	415	366	226
45°	236	401	236	352	236	189
55°	192	296	192	289	192	177
65°	134	178	134	199	134	128
75°	51	85	51	101	51	53
85°	9	22	9	18	9	12
90°	2	10	2	10	2	2
95°	24	109	24	109	24	27
105°	86	744	86	744	86	91
115°	152	958	152	958	152	150
125°	212	763	212	763	212	188
135°	252	592	252	592	252	195
145°	292	480	292	480	292	183
155°	331	414	331	414	331	152
165°	357	385	357	385	357	101
175°	371	373	371	373	371	35
180°	371	371	371	371	371	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
2.5°	574.1	574.1	577.3	578.4	578.4	576.8	575.2	576.8	581.6	583.2	582.7
5°	571.9	576.2	582.2	583.2	584.3	583.8	582.7	583.8	589.2	590.2	590.8
7.5°	567.6	575.7	583.2	584.8	586.4	584.8	584.3	585.4	590.8	591.8	591.8
10°	562.3	573.5	582.2	583.2	584.8	583.2	583.2	585.4	590.8	591.8	592.4
12.5°	554.7	570.3	578.4	579.4	581.6	581.1	580.6	582.7	588.1	589.2	589.2
15°	546.0	564.3	571.9	573.0	576.8	575.7	575.7	577.8	583.8	585.4	584.8
17.5°	534.2	556.9	565.5	567.1	569.8	569.2	569.8	571.9	577.3	578.4	579.0
20°	520.7	546.6	556.9	558.5	561.1	561.1	561.1	563.9	569.2	571.4	571.4
22.5°	502.4	535.8	546.6	547.7	550.9	550.9	552.0	555.8	560.6	561.1	561.1
25°	480.9	524.0	533.1	536.4	539.6	541.2	542.8	545.0	546.6	546.0	546.6
27.5°	458.3	508.9	520.7	522.9	527.2	528.9	531.0	531.5	532.1	533.7	532.6
30°	433.0	487.9	505.6	507.8	514.8	515.9	513.8	514.8	517.5	518.6	519.7
32.5°	404.5	456.7	490.1	494.9	501.4	498.2	497.6	499.2	503.6	503.6	504.6
35°	365.7	432.4	475.5	479.9	484.7	480.9	483.1	483.6	486.3	487.9	487.3
37.5°	323.1	411.5	460.4	463.7	467.4	462.6	465.8	467.4	469.6	468.6	468.6
40°	285.4	378.6	442.7	444.9	448.1	444.3	447.5	448.6	449.7	448.6	448.1
42.5°	257.4	342.5	423.8	426.6	424.4	427.0	428.2	430.3	428.6	426.6	426.6
45°	235.8	332.8	403.3	406.6	403.3	407.7	409.3	409.3	404.5	403.3	402.8
47.5°	228.9	313.4	382.9	382.9	381.3	386.6	389.4	385.6	380.8	379.1	379.1
50°	228.4	291.9	354.9	352.8	360.3	366.7	364.1	360.3	356.5	350.6	350.6
52.5°	207.3	265.5	318.8	326.9	338.7	342.5	338.2	334.4	327.9	325.3	323.1
55°	192.2	238.0	285.9	302.1	314.5	319.4	311.2	307.5	297.8	296.2	295.1
57.5°	189.0	198.2	255.8	276.2	291.3	290.8	285.9	279.0	270.9	269.2	268.8
60°	173.4	143.3	223.5	247.7	263.3	261.7	257.4	250.9	243.4	242.3	241.3
62.5°	157.2	103.9	186.9	214.3	236.4	235.8	232.1	222.4	217.1	214.3	212.2
65°	133.5	87.2	133.1	178.3	210.1	211.1	203.0	196.0	190.1	186.9	186.3
67.5°	101.8	71.1	89.9	148.6	184.7	183.6	173.4	170.2	162.6	161.0	157.8
70°	75.4	47.4	62.5	120.6	160.0	157.2	149.2	145.4	138.4	134.7	132.5
72.5°	62.5	38.2	45.8	93.7	134.7	131.4	124.4	120.1	114.2	111.0	108.8
75°	50.6	40.4	35.0	69.5	109.3	107.2	100.7	96.4	91.5	87.2	87.8
77.5°	37.2	37.7	28.0	51.2	86.7	83.5	79.7	74.4	72.2	67.9	67.9
80°	28.0	29.6	21.0	35.0	62.5	62.5	59.3	55.5	51.7	49.5	49.5
82.5°	18.9	18.9	15.6	22.1	42.6	41.0	38.8	37.7	35.6	34.4	34.4
85°	8.6	10.8	9.7	13.5	23.1	24.3	24.3	23.1	22.6	21.5	22.1
87.5°	2.7	4.8	5.9	7.5	11.9	12.4	12.9	12.9	12.9	13.5	13.5
90°	2.5	4.5	6.5	7.0	11.0	16.3	19.0	16.9	12.6	9.5	9.5
92.5°	10.0	26.9	43.8	48.0	67.5	93.5	106.6	93.4	67.1	47.3	45.4
95°	23.9	54.9	85.9	93.6	166.2	263.0	311.4	277.8	210.8	160.5	154.8
97.5°	41.4	68.7	96.0	102.8	223.9	385.3	466.0	444.8	402.5	370.7	359.8
100°	54.8	79.5	104.3	110.5	244.8	424.0	513.5	515.0	518.2	520.5	507.6
102.5°	66.2	89.4	112.4	118.2	254.5	436.2	527.0	554.0	608.0	648.4	637.3
105°	85.6	105.2	124.8	129.7	261.6	437.6	525.5	586.0	707.0	797.8	791.8
107.5°	105.5	123.8	142.1	146.6	263.0	418.0	495.6	580.0	748.8	875.4	876.9
110°	119.0	135.5	152.0	156.1	261.0	400.8	470.7	565.1	753.8	895.3	901.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	132.2	147.9	163.6	167.5	261.1	385.8	448.1	544.7	737.8	882.7	892.2
115°	152.1	166.5	181.1	184.7	263.5	368.4	420.9	514.0	700.1	839.6	852.8
117.5°	171.8	184.9	198.1	201.4	268.4	357.6	402.2	486.2	654.1	780.1	794.7
120°	183.2	195.6	208.0	211.1	272.3	354.0	394.8	471.5	625.0	740.0	754.3
122.5°	194.4	206.9	219.4	222.5	278.0	352.0	389.1	458.1	596.3	700.0	714.0
125°	211.6	223.0	234.4	237.2	285.8	350.5	382.9	441.6	559.0	647.0	659.9
127.5°	225.6	237.0	248.5	251.4	293.5	349.6	377.7	428.1	528.9	604.4	615.3
130°	233.0	245.4	257.8	260.9	299.1	350.1	375.6	420.5	510.2	577.5	587.6
132.5°	240.7	253.1	265.5	268.6	303.7	350.5	373.9	414.0	494.4	554.6	563.6
135°	252.1	263.4	274.7	277.5	308.7	350.2	370.9	404.6	471.8	522.3	530.1
137.5°	263.9	275.0	286.2	289.0	316.1	352.4	370.4	398.9	455.7	498.3	504.7
140°	273.6	283.9	294.1	296.7	320.7	352.7	368.7	393.2	442.3	479.2	485.1
142.5°	281.0	290.5	300.0	302.4	324.5	354.0	368.7	390.3	433.4	465.7	470.9
145°	292.5	300.8	309.1	311.2	329.5	354.0	366.2	383.8	419.1	445.6	449.4
147.5°	303.9	312.0	320.1	322.1	336.8	356.4	366.2	380.1	407.8	428.6	431.9
150°	311.4	318.7	326.0	327.9	340.6	357.7	366.2	377.9	401.3	418.9	421.5
152.5°	319.1	324.7	330.2	331.6	343.1	358.5	366.2	376.2	396.2	411.2	413.1
155°	330.6	334.7	338.7	339.7	348.6	360.3	366.2	374.1	390.0	402.0	403.3
157.5°	339.0	343.0	347.1	348.0	354.0	362.2	366.2	372.4	384.7	394.0	394.9
160°	344.7	347.9	350.9	351.7	356.5	363.0	366.2	371.5	382.1	390.1	390.6
162.5°	350.5	352.8	355.2	355.7	359.2	363.8	366.2	370.7	379.6	386.3	386.8
165°	356.7	358.8	360.9	361.4	363.0	365.1	366.2	369.4	375.8	380.6	381.2
167.5°	362.4	363.4	364.4	364.6	366.0	367.8	368.7	370.7	375.0	378.1	378.4
170°	366.2	367.1	368.2	368.4	368.5	368.6	368.7	370.7	375.0	378.1	378.1
172.5°	368.2	368.4	368.6	368.7	368.7	368.7	368.7	370.3	373.6	376.1	376.0
175°	370.9	370.9	370.9	370.9	370.2	369.1	368.7	369.7	371.8	373.4	373.4
177.5°	370.9	370.9	370.9	370.9	370.3	369.5	369.1	369.9	371.6	372.9	372.7
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
2.5°	583.8	582.2	583.8	582.7	583.2	581.6	576.8	575.2	576.8	578.4	578.4
5°	590.8	589.7	590.8	590.8	590.2	589.2	583.8	582.7	583.8	584.3	583.2
7.5°	592.9	591.3	592.9	591.8	591.8	590.8	585.4	584.3	584.8	586.4	584.8
10°	592.9	591.3	592.9	592.4	591.8	590.8	585.4	583.2	583.2	584.8	583.2
12.5°	590.2	589.2	590.2	589.2	589.2	588.1	582.7	580.6	581.1	581.6	579.4
15°	585.9	584.3	585.9	584.8	585.4	583.8	577.8	575.7	575.7	576.8	573.0
17.5°	579.4	577.3	579.4	579.0	578.4	577.3	571.9	569.8	569.2	569.8	567.1
20°	571.9	570.3	571.9	571.4	571.4	569.2	563.9	561.1	561.1	561.1	558.5
22.5°	560.1	558.5	560.1	561.1	561.1	560.6	555.8	552.0	550.9	550.9	547.7
25°	546.6	545.0	546.6	546.6	546.0	546.6	545.0	542.8	541.2	539.6	536.4
27.5°	533.7	532.6	533.7	532.6	533.7	532.1	531.5	531.0	528.9	527.2	522.9
30°	520.7	519.7	520.7	519.7	518.6	517.5	514.8	513.8	515.9	514.8	507.8
32.5°	504.6	503.6	504.6	504.6	503.6	503.6	499.2	497.6	498.2	501.4	494.9
35°	487.9	486.3	487.9	487.3	487.9	486.3	483.6	483.1	480.9	484.7	479.9
37.5°	468.6	466.9	468.6	468.6	468.6	469.6	467.4	465.8	462.6	467.4	463.7
40°	448.6	446.5	448.6	448.1	448.6	449.7	448.6	447.5	444.3	448.1	444.9
42.5°	426.0	425.4	426.0	426.6	426.6	428.6	430.3	428.2	427.0	424.4	426.6
45°	401.7	400.7	401.7	402.8	403.3	404.5	409.3	409.3	407.7	403.3	406.6
47.5°	375.9	373.2	375.9	379.1	379.1	380.8	385.6	389.4	386.6	381.3	382.9
50°	348.4	349.0	348.4	350.6	350.6	356.5	360.3	364.1	366.7	360.3	352.8
52.5°	321.5	321.0	321.5	323.1	325.3	327.9	334.4	338.2	342.5	338.7	326.9
55°	294.5	295.7	294.5	295.1	296.2	297.8	307.5	311.2	319.4	314.5	302.1
57.5°	267.6	266.0	267.6	268.8	269.2	270.9	279.0	285.9	290.8	291.3	276.2
60°	236.4	234.2	236.4	241.3	242.3	243.4	250.9	257.4	261.7	263.3	247.7
62.5°	208.9	205.2	208.9	212.2	214.3	217.1	222.4	232.1	235.8	236.4	214.3
65°	179.9	178.3	179.9	186.3	186.9	190.1	196.0	203.0	211.1	210.1	178.3
67.5°	153.5	153.5	153.5	157.8	161.0	162.6	170.2	173.4	183.6	184.7	148.6
70°	129.3	128.7	129.3	132.5	134.7	138.4	145.4	149.2	157.2	160.0	120.6
72.5°	106.1	105.5	106.1	108.8	111.0	114.2	120.1	124.4	131.4	134.7	93.7
75°	85.6	84.6	85.6	87.8	87.2	91.5	96.4	100.7	107.2	109.3	69.5
77.5°	65.7	65.7	65.7	67.9	67.9	72.2	74.4	79.7	83.5	86.7	51.2
80°	49.0	48.5	49.0	49.5	49.5	51.7	55.5	59.3	62.5	62.5	35.0
82.5°	34.4	33.4	34.4	34.4	34.4	35.6	37.7	38.8	41.0	42.6	22.1
85°	21.5	21.5	21.5	22.1	21.5	22.6	23.1	24.3	24.3	23.1	13.5
87.5°	14.0	13.5	14.0	13.5	13.5	12.9	12.9	12.9	12.4	11.9	7.5
90°	9.5	9.5	9.5	9.5	9.5	12.6	16.9	19.0	16.3	11.0	7.0
92.5°	37.9	30.4	37.9	45.4	47.3	67.1	93.4	106.6	93.5	67.5	48.0
95°	132.1	109.3	132.1	154.8	160.5	210.8	277.8	311.4	263.0	166.2	93.6
97.5°	316.5	273.1	316.5	359.8	370.7	402.5	444.8	466.0	385.3	223.9	102.8
100°	455.9	404.2	455.9	507.6	520.5	518.2	515.0	513.5	424.0	244.8	110.5
102.5°	593.1	548.9	593.1	637.3	648.4	608.0	554.0	527.0	436.2	254.5	118.2
105°	768.1	744.3	768.1	791.8	797.8	707.0	586.0	525.5	437.6	261.6	129.7
107.5°	882.7	888.4	882.7	876.9	875.4	748.8	580.0	495.6	418.0	263.0	146.6
110°	926.3	951.2	926.3	901.5	895.3	753.8	565.1	470.7	400.8	261.0	156.1



TEST NUMBER: P934650

CATALOG NUMBER: SQ4-FA-075U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	930.3	968.3	930.3	892.2	882.7	737.8	544.7	448.1	385.8	261.1	167.5
115°	905.6	958.4	905.6	852.8	839.6	700.1	514.0	420.9	368.4	263.5	184.7
117.5°	853.3	911.8	853.3	794.7	780.1	654.1	486.2	402.2	357.6	268.4	201.4
120°	811.1	868.0	811.1	754.3	740.0	625.0	471.5	394.8	354.0	272.3	211.1
122.5°	770.1	826.2	770.1	714.0	700.0	596.3	458.1	389.1	352.0	278.0	222.5
125°	711.5	763.2	711.5	659.9	647.0	559.0	441.6	382.9	350.5	285.8	237.2
127.5°	658.9	702.5	658.9	615.3	604.4	528.9	428.1	377.7	349.6	293.5	251.4
130°	627.9	668.1	627.9	587.6	577.5	510.2	420.5	375.6	350.1	299.1	260.9
132.5°	599.7	635.7	599.7	563.6	554.6	494.4	414.0	373.9	350.5	303.7	268.6
135°	561.1	592.2	561.1	530.1	522.3	471.8	404.6	370.9	350.2	308.7	277.5
137.5°	530.1	555.6	530.1	504.7	498.3	455.7	398.9	370.4	352.4	316.1	289.0
140°	508.9	532.7	508.9	485.1	479.2	442.3	393.2	368.7	352.7	320.7	296.7
142.5°	491.3	511.8	491.3	470.9	465.7	433.4	390.3	368.7	354.0	324.5	302.4
145°	464.9	480.4	464.9	449.4	445.6	419.1	383.8	366.2	354.0	329.5	311.2
147.5°	444.7	457.5	444.7	431.9	428.6	407.8	380.1	366.2	356.4	336.8	322.1
150°	431.9	442.4	431.9	421.5	418.9	401.3	377.9	366.2	357.7	340.6	327.9
152.5°	421.0	428.9	421.0	413.1	411.2	396.2	376.2	366.2	358.5	343.1	331.6
155°	408.5	413.7	408.5	403.3	402.0	390.0	374.1	366.2	360.3	348.6	339.7
157.5°	398.6	402.2	398.6	394.9	394.0	384.7	372.4	366.2	362.2	354.0	348.0
160°	392.7	394.8	392.7	390.6	390.1	382.1	371.5	366.2	363.0	356.5	351.7
162.5°	388.8	390.8	388.8	386.8	386.3	379.6	370.7	366.2	363.8	359.2	355.7
165°	383.3	385.4	383.3	381.2	380.6	375.8	369.4	366.2	365.1	363.0	361.4
167.5°	379.3	380.1	379.3	378.4	378.1	375.0	370.7	368.7	367.8	366.0	364.6
170°	378.1	378.1	378.1	378.1	378.1	375.0	370.7	368.7	368.6	368.5	368.4
172.5°	375.2	374.4	375.2	376.0	376.1	373.6	370.3	368.7	368.7	368.7	368.7
175°	373.4	373.4	373.4	373.4	373.4	371.8	369.7	368.7	369.1	370.2	370.9
177.5°	371.8	370.9	371.8	372.7	372.9	371.6	369.9	369.1	369.5	370.3	370.9
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



TEST NUMBER: P934650

CATALOG NUMBER: SQ4-FA-075U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
2.5°	577.3	574.1	574.1	568.7	566.5	564.9	562.3	554.2	552.0	549.8	553.1
5°	582.2	576.2	571.9	562.3	554.2	550.9	540.7	521.3	508.4	498.7	493.3
7.5°	583.2	575.7	567.6	552.5	533.1	524.5	493.3	457.8	448.1	439.5	434.0
10°	582.2	573.5	562.3	539.6	493.8	478.7	447.5	424.4	418.4	416.8	418.4
12.5°	578.4	570.3	554.7	517.0	452.9	442.7	424.4	410.9	409.9	412.5	427.0
15°	571.9	564.3	546.0	486.9	430.3	422.8	409.9	405.0	410.9	429.8	473.4
17.5°	565.5	556.9	534.2	457.2	413.1	407.7	398.5	408.2	441.6	466.9	481.5
20°	556.9	546.6	520.7	435.7	400.7	395.8	391.5	435.1	460.4	469.6	477.7
22.5°	546.6	535.8	502.4	420.6	387.8	384.0	386.6	450.2	460.4	466.9	473.9
25°	533.1	524.0	480.9	408.7	377.5	373.2	383.4	448.6	454.5	456.1	470.2
27.5°	520.7	508.9	458.3	398.0	365.1	363.5	386.2	441.6	445.9	447.5	462.6
30°	505.6	487.9	433.0	386.6	352.2	351.6	386.6	433.0	431.9	436.2	451.3
32.5°	490.1	456.7	404.5	372.7	339.8	339.3	382.9	420.0	419.0	424.9	436.2
35°	475.5	432.4	365.7	356.5	324.2	324.7	373.7	405.0	405.5	410.9	417.9
37.5°	460.4	411.5	323.1	338.7	309.2	309.2	361.4	391.0	389.9	391.5	401.2
40°	442.7	378.6	285.4	315.6	295.1	293.5	346.3	375.9	372.1	371.6	385.0
42.5°	423.8	342.5	257.4	284.9	279.0	276.8	327.9	357.6	350.6	352.2	369.5
45°	403.3	332.8	235.8	240.7	262.3	260.7	308.0	336.6	331.7	336.1	353.8
47.5°	382.9	313.4	228.9	199.8	244.5	244.0	285.9	316.1	313.4	317.7	336.6
50°	354.9	291.9	228.4	171.3	224.6	226.7	259.6	296.2	296.2	300.0	319.9
52.5°	318.8	265.5	207.3	155.1	201.4	207.9	236.4	279.0	280.0	283.8	301.6
55°	285.9	238.0	192.2	142.7	173.9	188.0	213.8	261.2	263.3	267.1	283.3
57.5°	255.8	198.2	189.0	128.2	148.6	162.1	193.8	244.0	245.0	248.3	263.9
60°	223.5	143.3	173.4	112.6	126.6	136.8	175.5	223.5	227.2	229.4	242.9
62.5°	186.9	103.9	157.2	101.8	115.8	118.0	160.5	204.1	208.9	210.5	218.7
65°	133.1	87.2	133.5	92.7	104.5	105.0	144.3	184.2	188.5	191.2	197.1
67.5°	89.9	71.1	101.8	84.0	95.9	96.4	128.7	161.0	166.9	169.1	172.9
70°	62.5	47.4	75.4	74.8	86.2	87.2	112.0	140.0	145.4	147.0	149.2
72.5°	45.8	38.2	62.5	67.3	76.0	77.0	94.8	116.4	121.7	123.3	124.4
75°	35.0	40.4	50.6	58.7	64.6	65.1	77.6	94.8	98.5	99.7	100.1
77.5°	28.0	37.7	37.2	47.4	52.8	51.7	60.9	73.2	76.4	76.4	76.4
80°	21.0	29.6	28.0	34.0	38.8	37.7	43.6	52.3	53.3	54.4	53.9
82.5°	15.6	18.9	18.9	21.5	25.9	24.8	29.1	34.0	34.0	34.0	35.0
85°	9.7	10.8	8.6	11.3	14.5	14.0	16.1	18.3	18.9	18.9	17.7
87.5°	5.9	4.8	2.7	4.3	6.4	6.4	7.5	8.1	7.5	7.5	7.5
90°	6.5	4.5	2.5	4.5	6.5	7.0	11.0	16.3	19.0	16.9	12.6
92.5°	43.8	26.9	10.0	26.9	43.8	48.0	67.5	93.5	106.6	93.4	67.1
95°	85.9	54.9	23.9	54.9	85.9	93.6	166.2	263.0	311.4	277.8	210.8
97.5°	96.0	68.7	41.4	68.7	96.0	102.8	223.9	385.3	466.0	444.8	402.5
100°	104.3	79.5	54.8	79.5	104.3	110.5	244.8	424.0	513.5	515.0	518.2
102.5°	112.4	89.4	66.2	89.4	112.4	118.2	254.5	436.2	527.0	554.0	608.0
105°	124.8	105.2	85.6	105.2	124.8	129.7	261.6	437.6	525.5	586.0	707.0
107.5°	142.1	123.8	105.5	123.8	142.1	146.6	263.0	418.0	495.6	580.0	748.8
110°	152.0	135.5	119.0	135.5	152.0	156.1	261.0	400.8	470.7	565.1	753.8



TEST NUMBER: P934650

CATALOG NUMBER: SQ4-FA-075U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	163.6	147.9	132.2	147.9	163.6	167.5	261.1	385.8	448.1	544.7	737.8
115°	181.1	166.5	152.1	166.5	181.1	184.7	263.5	368.4	420.9	514.0	700.1
117.5°	198.1	184.9	171.8	184.9	198.1	201.4	268.4	357.6	402.2	486.2	654.1
120°	208.0	195.6	183.2	195.6	208.0	211.1	272.3	354.0	394.8	471.5	625.0
122.5°	219.4	206.9	194.4	206.9	219.4	222.5	278.0	352.0	389.1	458.1	596.3
125°	234.4	223.0	211.6	223.0	234.4	237.2	285.8	350.5	382.9	441.6	559.0
127.5°	248.5	237.0	225.6	237.0	248.5	251.4	293.5	349.6	377.7	428.1	528.9
130°	257.8	245.4	233.0	245.4	257.8	260.9	299.1	350.1	375.6	420.5	510.2
132.5°	265.5	253.1	240.7	253.1	265.5	268.6	303.7	350.5	373.9	414.0	494.4
135°	274.7	263.4	252.1	263.4	274.7	277.5	308.7	350.2	370.9	404.6	471.8
137.5°	286.2	275.0	263.9	275.0	286.2	289.0	316.1	352.4	370.4	398.9	455.7
140°	294.1	283.9	273.6	283.9	294.1	296.7	320.7	352.7	368.7	393.2	442.3
142.5°	300.0	290.5	281.0	290.5	300.0	302.4	324.5	354.0	368.7	390.3	433.4
145°	309.1	300.8	292.5	300.8	309.1	311.2	329.5	354.0	366.2	383.8	419.1
147.5°	320.1	312.0	303.9	312.0	320.1	322.1	336.8	356.4	366.2	380.1	407.8
150°	326.0	318.7	311.4	318.7	326.0	327.9	340.6	357.7	366.2	377.9	401.3
152.5°	330.2	324.7	319.1	324.7	330.2	331.6	343.1	358.5	366.2	376.2	396.2
155°	338.7	334.7	330.6	334.7	338.7	339.7	348.6	360.3	366.2	374.1	390.0
157.5°	347.1	343.0	339.0	343.0	347.1	348.0	354.0	362.2	366.2	372.4	384.7
160°	350.9	347.9	344.7	347.9	350.9	351.7	356.5	363.0	366.2	371.5	382.1
162.5°	355.2	352.8	350.5	352.8	355.2	355.7	359.2	363.8	366.2	370.7	379.6
165°	360.9	358.8	356.7	358.8	360.9	361.4	363.0	365.1	366.2	369.4	375.8
167.5°	364.4	363.4	362.4	363.4	364.4	364.6	366.0	367.8	368.7	370.7	375.0
170°	368.2	367.1	366.2	367.1	368.2	368.4	368.5	368.6	368.7	370.7	375.0
172.5°	368.6	368.4	368.2	368.4	368.6	368.7	368.7	368.7	368.7	370.3	373.6
175°	370.9	370.9	370.9	370.9	370.9	370.9	370.2	369.1	368.7	369.7	371.8
177.5°	370.9	370.9	370.9	370.9	370.9	370.9	370.3	369.5	369.1	369.9	371.6
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



TEST NUMBER: P934650
 CATALOG NUMBER: SQ4-FA-075U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
2.5°	549.3	547.7	549.8	544.0	549.8	547.7	549.3	553.1	549.8	552.0	554.2
5°	482.0	479.3	470.7	463.7	470.7	479.3	482.0	493.3	498.7	508.4	521.3
7.5°	430.8	428.6	426.6	422.2	426.6	428.6	430.8	434.0	439.5	448.1	457.8
10°	419.5	420.0	423.3	422.8	423.3	420.0	419.5	418.4	416.8	418.4	424.4
12.5°	448.6	453.5	471.2	470.2	471.2	453.5	448.6	427.0	412.5	409.9	410.9
15°	482.0	483.6	487.3	487.9	487.3	483.6	482.0	473.4	429.8	410.9	405.0
17.5°	485.3	485.7	488.5	488.5	488.5	485.7	485.3	481.5	466.9	441.6	408.2
20°	482.5	483.6	489.0	490.1	489.0	483.6	482.5	477.7	469.6	460.4	435.1
22.5°	481.5	483.6	487.9	487.3	487.9	483.6	481.5	473.9	466.9	460.4	450.2
25°	476.1	476.1	476.6	477.1	476.6	476.1	476.1	470.2	456.1	454.5	448.6
27.5°	464.8	465.8	469.0	468.6	469.0	465.8	464.8	462.6	447.5	445.9	441.6
30°	454.5	453.5	450.7	448.6	450.7	453.5	454.5	451.3	436.2	431.9	433.0
32.5°	437.3	434.6	431.9	430.3	431.9	434.6	437.3	436.2	424.9	419.0	420.0
35°	416.8	417.4	416.8	415.2	416.8	417.4	416.8	417.9	410.9	405.5	405.0
37.5°	402.3	403.3	402.8	400.7	402.8	403.3	402.3	401.2	391.5	389.9	391.0
40°	387.2	387.8	387.2	385.6	387.2	387.8	387.2	385.0	371.6	372.1	375.9
42.5°	372.7	372.1	370.5	369.5	370.5	372.1	372.7	369.5	352.2	350.6	357.6
45°	356.0	356.5	353.2	351.6	353.2	356.5	356.0	353.8	336.1	331.7	336.6
47.5°	339.3	339.3	336.6	334.9	336.6	339.3	339.3	336.6	317.7	313.4	316.1
50°	321.5	321.0	317.2	316.6	317.2	321.0	321.5	319.9	300.0	296.2	296.2
52.5°	301.0	301.0	301.6	302.7	301.6	301.0	301.0	301.6	283.8	280.0	279.0
55°	283.3	283.8	287.6	288.7	287.6	283.8	283.3	283.3	267.1	263.3	261.2
57.5°	265.0	265.0	267.6	267.6	267.6	265.0	265.0	263.9	248.3	245.0	244.0
60°	244.0	245.0	247.2	246.7	247.2	245.0	244.0	242.9	229.4	227.2	223.5
62.5°	221.9	223.0	223.5	222.4	223.5	223.0	221.9	218.7	210.5	208.9	204.1
65°	198.7	199.8	200.3	199.2	200.3	199.8	198.7	197.1	191.2	188.5	184.2
67.5°	175.1	174.5	173.9	176.1	173.9	174.5	175.1	172.9	169.1	166.9	161.0
70°	150.8	150.8	150.2	151.4	150.2	150.8	150.8	149.2	147.0	145.4	140.0
72.5°	124.9	124.4	126.6	124.9	126.6	124.4	124.9	124.4	123.3	121.7	116.4
75°	99.7	100.7	99.7	101.3	99.7	100.7	99.7	100.1	99.7	98.5	94.8
77.5°	76.0	77.0	76.0	76.0	76.0	77.0	76.0	76.4	76.4	76.4	73.2
80°	53.9	53.3	53.3	52.8	53.3	53.3	53.9	53.9	54.4	53.3	52.3
82.5°	34.4	34.0	34.0	35.0	34.0	34.0	34.4	35.0	34.0	34.0	34.0
85°	18.9	19.4	18.3	18.3	18.3	19.4	18.9	17.7	18.9	18.9	18.3
87.5°	7.0	6.4	6.4	6.4	6.4	6.4	7.0	7.5	7.5	7.5	8.1
90°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	12.6	16.9	19.0	16.3
92.5°	47.3	45.4	37.9	30.4	37.9	45.4	47.3	67.1	93.4	106.6	93.5
95°	160.5	154.8	132.1	109.3	132.1	154.8	160.5	210.8	277.8	311.4	263.0
97.5°	370.7	359.8	316.5	273.1	316.5	359.8	370.7	402.5	444.8	466.0	385.3
100°	520.5	507.6	455.9	404.2	455.9	507.6	520.5	518.2	515.0	513.5	424.0
102.5°	648.4	637.3	593.1	548.9	593.1	637.3	648.4	608.0	554.0	527.0	436.2
105°	797.8	791.8	768.1	744.3	768.1	791.8	797.8	707.0	586.0	525.5	437.6
107.5°	875.4	876.9	882.7	888.4	882.7	876.9	875.4	748.8	580.0	495.6	418.0
110°	895.3	901.5	926.3	951.2	926.3	901.5	895.3	753.8	565.1	470.7	400.8



TEST NUMBER: P934650

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	882.7	892.2	930.3	968.3	930.3	892.2	882.7	737.8	544.7	448.1	385.8
115°	839.6	852.8	905.6	958.4	905.6	852.8	839.6	700.1	514.0	420.9	368.4
117.5°	780.1	794.7	853.3	911.8	853.3	794.7	780.1	654.1	486.2	402.2	357.6
120°	740.0	754.3	811.1	868.0	811.1	754.3	740.0	625.0	471.5	394.8	354.0
122.5°	700.0	714.0	770.1	826.2	770.1	714.0	700.0	596.3	458.1	389.1	352.0
125°	647.0	659.9	711.5	763.2	711.5	659.9	647.0	559.0	441.6	382.9	350.5
127.5°	604.4	615.3	658.9	702.5	658.9	615.3	604.4	528.9	428.1	377.7	349.6
130°	577.5	587.6	627.9	668.1	627.9	587.6	577.5	510.2	420.5	375.6	350.1
132.5°	554.6	563.6	599.7	635.7	599.7	563.6	554.6	494.4	414.0	373.9	350.5
135°	522.3	530.1	561.1	592.2	561.1	530.1	522.3	471.8	404.6	370.9	350.2
137.5°	498.3	504.7	530.1	555.6	530.1	504.7	498.3	455.7	398.9	370.4	352.4
140°	479.2	485.1	508.9	532.7	508.9	485.1	479.2	442.3	393.2	368.7	352.7
142.5°	465.7	470.9	491.3	511.8	491.3	470.9	465.7	433.4	390.3	368.7	354.0
145°	445.6	449.4	464.9	480.4	464.9	449.4	445.6	419.1	383.8	366.2	354.0
147.5°	428.6	431.9	444.7	457.5	444.7	431.9	428.6	407.8	380.1	366.2	356.4
150°	418.9	421.5	431.9	442.4	431.9	421.5	418.9	401.3	377.9	366.2	357.7
152.5°	411.2	413.1	421.0	428.9	421.0	413.1	411.2	396.2	376.2	366.2	358.5
155°	402.0	403.3	408.5	413.7	408.5	403.3	402.0	390.0	374.1	366.2	360.3
157.5°	394.0	394.9	398.6	402.2	398.6	394.9	394.0	384.7	372.4	366.2	362.2
160°	390.1	390.6	392.7	394.8	392.7	390.6	390.1	382.1	371.5	366.2	363.0
162.5°	386.3	386.8	388.8	390.8	388.8	386.8	386.3	379.6	370.7	366.2	363.8
165°	380.6	381.2	383.3	385.4	383.3	381.2	380.6	375.8	369.4	366.2	365.1
167.5°	378.1	378.4	379.3	380.1	379.3	378.4	378.1	375.0	370.7	368.7	367.8
170°	378.1	378.1	378.1	378.1	378.1	378.1	378.1	375.0	370.7	368.7	368.6
172.5°	376.1	376.0	375.2	374.4	375.2	376.0	376.1	373.6	370.3	368.7	368.7
175°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	371.8	369.7	368.7	369.1
177.5°	372.9	372.7	371.8	370.9	371.8	372.7	372.9	371.6	369.9	369.1	369.5
180°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	569.2	569.2	569.2	569.2	569.2
2.5°	562.3	564.9	566.5	568.7	574.1
5°	540.7	550.9	554.2	562.3	571.9
7.5°	493.3	524.5	533.1	552.5	567.6
10°	447.5	478.7	493.8	539.6	562.3
12.5°	424.4	442.7	452.9	517.0	554.7
15°	409.9	422.8	430.3	486.9	546.0
17.5°	398.5	407.7	413.1	457.2	534.2
20°	391.5	395.8	400.7	435.7	520.7
22.5°	386.6	384.0	387.8	420.6	502.4
25°	383.4	373.2	377.5	408.7	480.9
27.5°	386.2	363.5	365.1	398.0	458.3
30°	386.6	351.6	352.2	386.6	433.0
32.5°	382.9	339.3	339.8	372.7	404.5
35°	373.7	324.7	324.2	356.5	365.7
37.5°	361.4	309.2	309.2	338.7	323.1
40°	346.3	293.5	295.1	315.6	285.4
42.5°	327.9	276.8	279.0	284.9	257.4
45°	308.0	260.7	262.3	240.7	235.8
47.5°	285.9	244.0	244.5	199.8	228.9
50°	259.6	226.7	224.6	171.3	228.4
52.5°	236.4	207.9	201.4	155.1	207.3
55°	213.8	188.0	173.9	142.7	192.2
57.5°	193.8	162.1	148.6	128.2	189.0
60°	175.5	136.8	126.6	112.6	173.4
62.5°	160.5	118.0	115.8	101.8	157.2
65°	144.3	105.0	104.5	92.7	133.5
67.5°	128.7	96.4	95.9	84.0	101.8
70°	112.0	87.2	86.2	74.8	75.4
72.5°	94.8	77.0	76.0	67.3	62.5
75°	77.6	65.1	64.6	58.7	50.6
77.5°	60.9	51.7	52.8	47.4	37.2
80°	43.6	37.7	38.8	34.0	28.0
82.5°	29.1	24.8	25.9	21.5	18.9
85°	16.1	14.0	14.5	11.3	8.6
87.5°	7.5	6.4	6.4	4.3	2.7
90°	11.0	7.0	6.5	4.5	2.5
92.5°	67.5	48.0	43.8	26.9	10.0
95°	166.2	93.6	85.9	54.9	23.9
97.5°	223.9	102.8	96.0	68.7	41.4
100°	244.8	110.5	104.3	79.5	54.8
102.5°	254.5	118.2	112.4	89.4	66.2
105°	261.6	129.7	124.8	105.2	85.6
107.5°	263.0	146.6	142.1	123.8	105.5
110°	261.0	156.1	152.0	135.5	119.0



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CATALOG NUMBER: SQ4-FA-075U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	261.1	167.5	163.6	147.9	132.2
115°	263.5	184.7	181.1	166.5	152.1
117.5°	268.4	201.4	198.1	184.9	171.8
120°	272.3	211.1	208.0	195.6	183.2
122.5°	278.0	222.5	219.4	206.9	194.4
125°	285.8	237.2	234.4	223.0	211.6
127.5°	293.5	251.4	248.5	237.0	225.6
130°	299.1	260.9	257.8	245.4	233.0
132.5°	303.7	268.6	265.5	253.1	240.7
135°	308.7	277.5	274.7	263.4	252.1
137.5°	316.1	289.0	286.2	275.0	263.9
140°	320.7	296.7	294.1	283.9	273.6
142.5°	324.5	302.4	300.0	290.5	281.0
145°	329.5	311.2	309.1	300.8	292.5
147.5°	336.8	322.1	320.1	312.0	303.9
150°	340.6	327.9	326.0	318.7	311.4
152.5°	343.1	331.6	330.2	324.7	319.1
155°	348.6	339.7	338.7	334.7	330.6
157.5°	354.0	348.0	347.1	343.0	339.0
160°	356.5	351.7	350.9	347.9	344.7
162.5°	359.2	355.7	355.2	352.8	350.5
165°	363.0	361.4	360.9	358.8	356.7
167.5°	366.0	364.6	364.4	363.4	362.4
170°	368.5	368.4	368.2	367.1	366.2
172.5°	368.7	368.7	368.6	368.4	368.2
175°	370.2	370.9	370.9	370.9	370.9
177.5°	370.3	370.9	370.9	370.9	370.9
180°	370.9	370.9	370.9	370.9	370.9



TEST NUMBER: P934650
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.36	10.12	10.41	11.18	12.61	12.16	12.92	13.21	13.98	15.41
	3H	9.83	10.51	10.89	11.58	13.03	13.49	14.17	14.55	15.24	16.69
	4H	10.02	10.66	11.09	11.73	13.19	13.92	14.57	14.99	15.64	17.09
	6H	10.13	10.73	11.21	11.80	13.27	14.19	14.79	15.27	15.86	17.33
	8H	10.13	10.70	11.22	11.78	13.25	14.26	14.83	15.35	15.91	17.38
	12H	10.10	10.64	11.19	11.72	13.20	14.29	14.83	15.38	15.91	17.40
4H	2H	10.37	11.02	11.45	12.09	13.55	12.56	13.20	13.64	14.27	15.73
	3H	11.39	11.93	12.48	13.02	14.50	14.04	14.58	15.13	15.68	17.15
	4H	11.66	12.16	12.76	13.24	14.73	14.56	15.06	15.65	16.14	17.63
	6H	11.78	12.21	12.88	13.32	14.80	14.91	15.34	16.01	16.45	17.93
	8H	11.79	12.18	12.89	13.28	14.78	15.01	15.41	16.11	16.51	18.01
	12H	11.75	12.11	12.87	13.22	14.73	15.06	15.42	16.18	16.53	18.04
8H	4H	12.10	12.50	13.20	13.60	15.10	14.68	15.07	15.78	16.18	17.68
	6H	12.36	12.69	13.48	13.83	15.33	15.10	15.43	16.23	16.57	18.07
	8H	12.40	12.69	13.53	13.81	15.33	15.25	15.53	16.38	16.66	18.18
	12H	12.38	12.63	13.52	13.75	15.31	15.34	15.59	16.47	16.71	18.26
12H	4H	12.10	12.46	13.22	13.58	15.08	14.64	15.00	15.76	16.11	17.62
	6H	12.42	12.71	13.55	13.83	15.35	15.10	15.39	16.23	16.51	18.03
	8H	12.48	12.73	13.62	13.85	15.41	15.25	15.50	16.38	16.62	18.18