

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: P934223

Luminaire Tested: SQ4-FA-050U-050D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934223
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-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

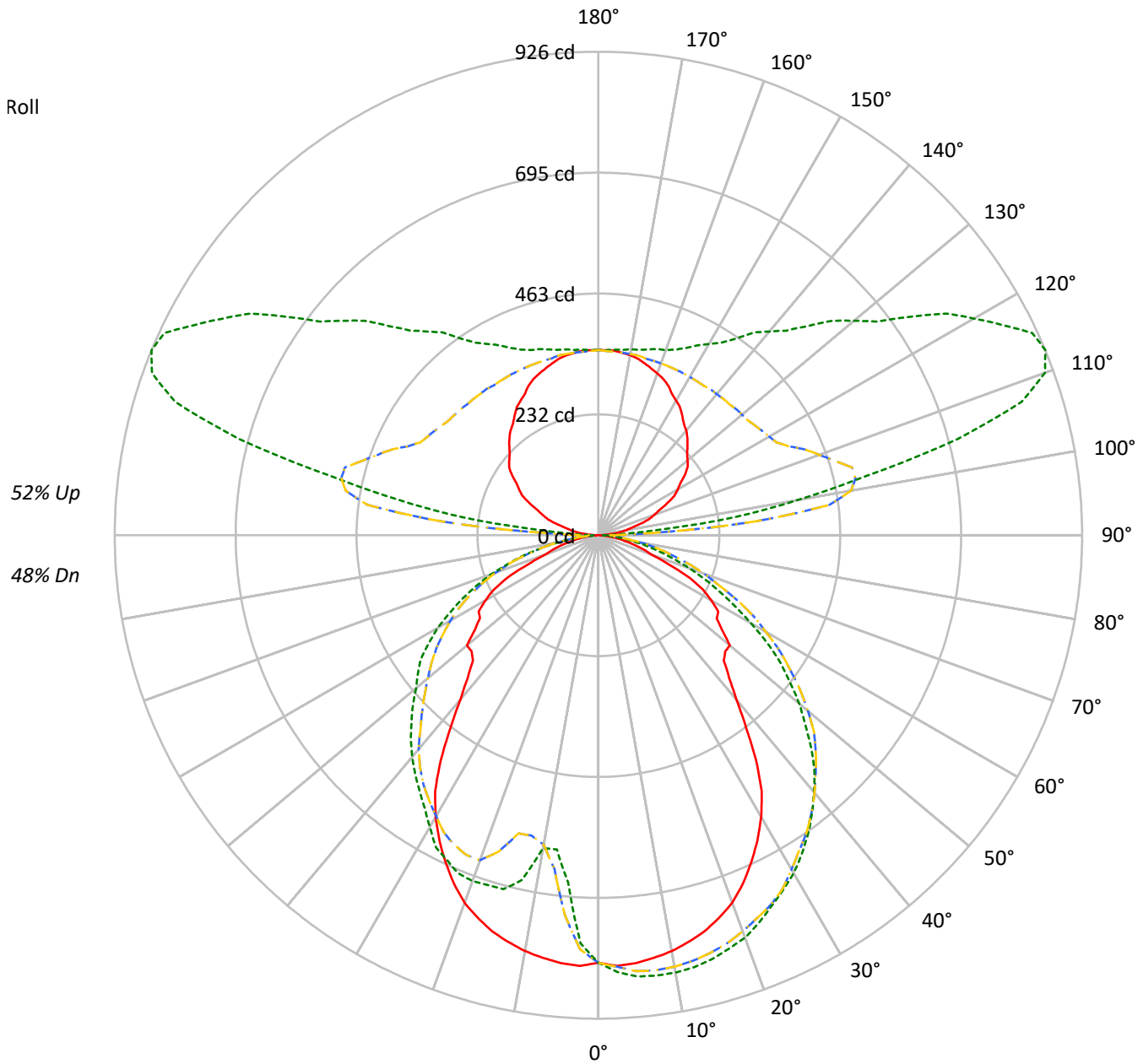
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4423.6 lumens
Efficiency: N/A
Efficacy: 103.8 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: P934223
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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°	5065	5065	5065	5065
5°	5101	5113	5101	4020
10°	5065	5036	5065	3601
15°	5008	4928	5008	4114
20°	4902	4798	4902	4123
25°	4685	4609	4685	4036
30°	4406	4453	4406	3844
35°	3926	4255	3926	3633
40°	3270	4022	3270	3474
45°	2920	3749	2920	3290
50°	3099	3424	3099	3107
55°	2913	3073	2913	3000
60°	2999	2610	2999	2747
65°	2715	2158	2715	2412
70°	1875	1719	1875	2022
75°	1638	1271	1638	1522
80°	1312	840	1312	915
85°	739	445	739	378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4478 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	1.7
10°-20°	209.8	4.7
20°-30°	324.4	7.3
30°-40°	387.2	8.8
40°-50°	389.5	8.8
50°-60°	338.9	7.7
60°-70°	240.3	5.4
70°-80°	127.1	2.9
80°-90°	33.0	0.7
90°-100°	172.9	3.9
100°-110°	454.6	10.3
110°-120°	471.3	10.7
120°-130°	378.1	8.5
130°-140°	296.6	6.7
140°-150°	227.7	5.1
150°-160°	164.0	3.7
160°-170°	100.3	2.3
170°-180°	33.9	0.8
0°-30°	608.1	13.7
0°-40°	995.4	22.5
0°-60°	1723.8	39.0
0°-90°	2124.2	48.0
90°-120°	1098.8	24.8
90°-150°	2001.2	45.2
90°-180°	2299.0	52.0
0°-180°	4423.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	819	819	819	819	819	
5°	823	848	823	667	823	78
15°	786	840	786	702	786	221
25°	692	784	692	686	692	318
35°	526	700	526	597	526	325
45°	339	576	339	506	339	272
55°	276	425	276	415	276	254
65°	192	256	192	287	192	184
75°	73	122	73	146	73	77
85°	12	31	12	26	12	17
90°	2	9	2	9	2	2
95°	23	104	23	104	23	25
105°	82	712	82	712	82	87
115°	146	916	146	916	146	144
125°	202	730	202	730	202	180
135°	241	566	241	566	241	187
145°	280	460	280	460	280	175
155°	316	396	316	396	316	145
165°	341	368	341	368	341	96
175°	355	357	355	357	355	34
180°	355	355	355	355	355	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	825.7	825.7	830.4	831.9	831.9	829.6	827.3	829.6	836.6	838.9	838.1
5°	822.6	828.8	837.4	838.9	840.5	839.7	838.1	839.7	847.4	849.0	849.8
7.5°	816.4	828.1	838.9	841.2	843.5	841.2	840.5	842.0	849.8	851.3	851.3
10°	808.7	825.0	837.4	838.9	841.2	838.9	838.9	842.0	849.8	851.3	852.1
12.5°	797.9	820.3	831.9	833.4	836.6	835.8	835.0	838.1	845.8	847.4	847.4
15°	785.5	811.8	822.6	824.2	829.6	828.1	828.1	831.1	839.7	842.0	841.2
17.5°	768.4	801.0	813.4	815.7	819.5	818.7	819.5	822.6	830.4	831.9	832.7
20°	749.1	786.2	801.0	803.3	807.1	807.1	807.1	811.0	818.7	821.8	821.8
22.5°	722.7	770.7	786.2	787.8	792.4	792.4	793.9	799.4	806.3	807.1	807.1
25°	691.7	753.7	766.8	771.5	776.2	778.5	780.8	783.9	786.2	785.5	786.2
27.5°	659.2	732.0	749.1	752.1	758.4	760.7	763.8	764.5	765.3	767.6	766.1
30°	622.8	701.8	727.3	730.4	740.5	742.0	739.0	740.5	744.4	746.0	747.5
32.5°	581.7	656.9	704.9	711.9	721.2	716.5	715.7	718.0	724.3	724.3	725.8
35°	526.0	622.0	684.0	690.2	697.2	691.7	694.8	695.6	699.5	701.8	701.0
37.5°	464.8	591.8	662.3	666.9	672.4	665.4	670.1	672.4	675.4	673.9	673.9
40°	410.6	544.5	636.7	639.8	644.5	639.0	643.7	645.3	646.8	645.3	644.5
42.5°	370.3	492.6	609.6	613.5	610.4	614.2	615.8	618.9	616.6	613.5	613.5
45°	339.3	478.7	580.2	584.8	580.2	586.4	588.7	588.7	581.7	580.2	579.4
47.5°	329.2	450.8	550.8	550.8	548.4	556.2	560.0	554.6	547.6	545.3	545.3
50°	328.4	419.8	510.4	507.4	518.2	527.5	523.6	518.2	512.8	504.3	504.3
52.5°	298.2	381.8	458.5	470.2	487.3	492.6	486.5	481.0	471.7	467.9	464.8
55°	276.5	342.3	411.3	434.6	452.4	459.3	447.8	442.3	428.4	426.0	424.5
57.5°	271.9	285.1	367.9	397.4	419.0	418.3	411.3	401.2	389.6	387.3	386.5
60°	249.4	206.1	321.5	356.4	378.8	376.5	370.3	361.0	350.1	348.6	347.0
62.5°	226.1	149.5	268.8	308.3	340.0	339.3	333.9	319.9	312.2	308.3	305.2
65°	192.1	125.5	191.3	256.4	302.1	303.6	292.1	282.0	273.4	268.8	268.0
67.5°	146.4	102.3	129.4	213.8	265.7	264.1	249.4	244.8	233.9	231.6	227.0
70°	108.4	68.1	89.9	173.5	230.1	226.1	214.6	209.1	199.0	193.7	190.6
72.5°	89.9	55.0	65.8	134.8	193.7	189.0	178.9	172.7	164.2	159.5	156.5
75°	72.8	58.1	50.4	99.9	157.2	154.2	144.8	138.7	131.7	125.5	126.3
77.5°	53.4	54.2	40.3	73.6	124.7	120.0	114.7	106.9	103.8	97.6	97.6
80°	40.3	42.6	30.2	50.4	89.9	89.9	85.2	79.8	74.4	71.3	71.3
82.5°	27.1	27.1	22.5	31.7	61.2	58.9	55.7	54.2	51.1	49.6	49.6
85°	12.4	15.5	13.9	19.3	33.3	34.9	34.9	33.3	32.6	31.0	31.7
87.5°	3.8	7.0	8.5	10.9	17.0	17.8	18.6	18.6	18.6	19.3	19.3
90°	2.4	4.3	6.2	6.7	10.5	15.6	18.1	16.1	12.0	9.0	9.0
92.5°	9.5	25.7	41.9	46.0	64.6	89.5	101.9	89.2	64.1	45.2	43.4
95°	22.9	52.4	82.1	89.5	158.9	251.6	297.8	265.8	201.7	153.5	148.1
97.5°	39.5	65.7	91.8	98.3	214.1	368.5	445.7	425.4	384.8	354.4	344.0
100°	52.4	76.1	99.8	105.7	234.2	405.5	491.1	492.6	495.6	497.8	485.5
102.5°	63.3	85.5	107.6	113.1	243.4	417.1	504.0	529.8	581.4	620.2	609.6
105°	81.9	100.6	119.4	124.0	250.2	418.4	502.5	560.4	676.1	763.0	757.3
107.5°	100.9	118.4	135.8	140.2	251.5	399.8	473.9	554.6	716.1	837.2	838.6
110°	113.8	129.5	145.3	149.2	249.6	383.3	450.1	540.4	721.0	856.3	862.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	126.4	141.4	156.5	160.2	249.6	368.9	428.5	520.9	705.6	844.2	853.2
115°	145.5	159.3	173.2	176.6	251.9	352.4	402.6	491.6	669.5	803.0	815.6
117.5°	164.2	176.9	189.4	192.6	256.6	342.0	384.7	465.0	625.6	746.1	760.1
120°	175.2	187.0	198.9	201.9	260.4	338.5	377.5	450.9	597.7	707.7	721.3
122.5°	186.0	197.9	209.8	212.8	265.9	336.6	372.1	438.1	570.3	669.4	682.8
125°	202.4	213.2	224.1	226.8	273.3	335.2	366.1	422.3	534.5	618.7	631.0
127.5°	215.7	226.7	237.7	240.5	280.7	334.3	361.1	409.3	505.7	578.0	588.4
130°	222.8	234.7	246.6	249.5	286.1	334.8	359.2	402.1	487.9	552.3	561.9
132.5°	230.2	242.1	253.9	256.9	290.4	335.2	357.6	396.0	472.8	530.4	539.0
135°	241.2	251.9	262.7	265.4	295.2	334.9	354.7	386.9	451.2	499.4	506.9
137.5°	252.3	263.0	273.7	276.4	302.3	336.9	354.2	381.4	435.7	476.6	482.6
140°	261.6	271.5	281.3	283.7	306.7	337.3	352.6	376.1	423.0	458.2	463.9
142.5°	268.7	277.8	286.9	289.2	310.3	338.5	352.6	373.2	414.4	445.4	450.3
145°	279.7	287.7	295.6	297.6	315.2	338.5	350.2	367.1	400.8	426.1	429.8
147.5°	290.7	298.4	306.2	308.1	322.1	340.8	350.2	363.4	390.0	409.9	413.0
150°	297.8	304.8	311.8	313.5	325.8	342.0	350.2	361.4	383.8	400.6	403.1
152.5°	305.2	310.5	315.8	317.1	328.1	342.8	350.2	359.7	378.9	393.2	395.1
155°	316.2	320.1	323.9	324.9	333.3	344.6	350.2	357.8	373.1	384.5	385.7
157.5°	324.2	328.0	331.9	332.8	338.6	346.3	350.2	356.1	368.0	376.8	377.7
160°	329.7	332.6	335.6	336.3	341.0	347.1	350.2	355.3	365.4	373.1	373.5
162.5°	335.2	337.4	339.6	340.2	343.5	348.0	350.2	354.5	363.1	369.4	369.9
165°	341.1	343.1	345.1	345.7	347.2	349.2	350.2	353.3	359.4	364.0	364.5
167.5°	346.6	347.5	348.5	348.7	350.0	351.7	352.6	354.6	358.6	361.6	361.8
170°	350.2	351.1	352.1	352.4	352.4	352.5	352.6	354.6	358.6	361.6	361.6
172.5°	352.1	352.4	352.5	352.6	352.6	352.6	352.6	354.1	357.3	359.7	359.5
175°	354.7	354.7	354.7	354.7	354.0	353.0	352.6	353.6	355.6	357.0	357.0
177.5°	354.7	354.7	354.7	354.7	354.2	353.4	353.0	353.8	355.4	356.6	356.4
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	839.7	837.4	839.7	838.1	838.9	836.6	829.6	827.3	829.6	831.9	831.9
5°	849.8	848.2	849.8	849.8	849.0	847.4	839.7	838.1	839.7	840.5	838.9
7.5°	852.9	850.5	852.9	851.3	851.3	849.8	842.0	840.5	841.2	843.5	841.2
10°	852.9	850.5	852.9	852.1	851.3	849.8	842.0	838.9	838.9	841.2	838.9
12.5°	849.0	847.4	849.0	847.4	847.4	845.8	838.1	835.0	835.8	836.6	833.4
15°	842.8	840.5	842.8	841.2	842.0	839.7	831.1	828.1	828.1	829.6	824.2
17.5°	833.4	830.4	833.4	832.7	831.9	830.4	822.6	819.5	818.7	819.5	815.7
20°	822.6	820.3	822.6	821.8	821.8	818.7	811.0	807.1	807.1	807.1	803.3
22.5°	805.6	803.3	805.6	807.1	807.1	806.3	799.4	793.9	792.4	792.4	787.8
25°	786.2	783.9	786.2	786.2	785.5	786.2	783.9	780.8	778.5	776.2	771.5
27.5°	767.6	766.1	767.6	766.1	767.6	765.3	764.5	763.8	760.7	758.4	752.1
30°	749.1	747.5	749.1	747.5	746.0	744.4	740.5	739.0	742.0	740.5	730.4
32.5°	725.8	724.3	725.8	725.8	724.3	724.3	718.0	715.7	716.5	721.2	711.9
35°	701.8	699.5	701.8	701.0	701.8	699.5	695.6	694.8	691.7	697.2	690.2
37.5°	673.9	671.6	673.9	673.9	673.9	675.4	672.4	670.1	665.4	672.4	666.9
40°	645.3	642.2	645.3	644.5	645.3	646.8	645.3	643.7	639.0	644.5	639.8
42.5°	612.7	611.9	612.7	613.5	613.5	616.6	618.9	615.8	614.2	610.4	613.5
45°	577.9	576.3	577.9	579.4	580.2	581.7	588.7	588.7	586.4	580.2	584.8
47.5°	540.7	536.8	540.7	545.3	545.3	547.6	554.6	560.0	556.2	548.4	550.8
50°	501.2	502.0	501.2	504.3	504.3	512.8	518.2	523.6	527.5	518.2	507.4
52.5°	462.5	461.7	462.5	464.8	467.9	471.7	481.0	486.5	492.6	487.3	470.2
55°	423.7	425.3	423.7	424.5	426.0	428.4	442.3	447.8	459.3	452.4	434.6
57.5°	385.0	382.7	385.0	386.5	387.3	389.6	401.2	411.3	418.3	419.0	397.4
60°	340.0	337.0	340.0	347.0	348.6	350.1	361.0	370.3	376.5	378.8	356.4
62.5°	300.5	295.1	300.5	305.2	308.3	312.2	319.9	333.9	339.3	340.0	308.3
65°	258.7	256.4	258.7	268.0	268.8	273.4	282.0	292.1	303.6	302.1	256.4
67.5°	220.8	220.8	220.8	227.0	231.6	233.9	244.8	249.4	264.1	265.7	213.8
70°	185.9	185.1	185.9	190.6	193.7	199.0	209.1	214.6	226.1	230.1	173.5
72.5°	152.6	151.8	152.6	156.5	159.5	164.2	172.7	178.9	189.0	193.7	134.8
75°	123.2	121.6	123.2	126.3	125.5	131.7	138.7	144.8	154.2	157.2	99.9
77.5°	94.5	94.5	94.5	97.6	97.6	103.8	106.9	114.7	120.0	124.7	73.6
80°	70.5	69.7	70.5	71.3	71.3	74.4	79.8	85.2	89.9	89.9	50.4
82.5°	49.6	48.0	49.6	49.6	49.6	51.1	54.2	55.7	58.9	61.2	31.7
85°	31.0	31.0	31.0	31.7	31.0	32.6	33.3	34.9	34.9	33.3	19.3
87.5°	20.2	19.3	20.2	19.3	19.3	18.6	18.6	18.6	17.8	17.0	10.9
90°	9.0	9.0	9.0	9.0	9.0	12.0	16.1	18.1	15.6	10.5	6.7
92.5°	36.2	29.0	36.2	43.4	45.2	64.1	89.2	101.9	89.5	64.6	46.0
95°	126.3	104.5	126.3	148.1	153.5	201.7	265.8	297.8	251.6	158.9	89.5
97.5°	302.6	261.2	302.6	344.0	354.4	384.8	425.4	445.7	368.5	214.1	98.3
100°	436.1	386.6	436.1	485.5	497.8	495.6	492.6	491.1	405.5	234.2	105.7
102.5°	567.3	524.9	567.3	609.6	620.2	581.4	529.8	504.0	417.1	243.4	113.1
105°	734.6	711.8	734.6	757.3	763.0	676.1	560.4	502.5	418.4	250.2	124.0
107.5°	844.1	849.6	844.1	838.6	837.2	716.1	554.6	473.9	399.8	251.5	140.2
110°	885.9	909.6	885.9	862.2	856.3	721.0	540.4	450.1	383.3	249.6	149.2



TEST NUMBER: P934223

CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	889.7	926.0	889.7	853.2	844.2	705.6	520.9	428.5	368.9	249.6	160.2
115°	866.0	916.5	866.0	815.6	803.0	669.5	491.6	402.6	352.4	251.9	176.6
117.5°	816.0	872.0	816.0	760.1	746.1	625.6	465.0	384.7	342.0	256.6	192.6
120°	775.7	830.1	775.7	721.3	707.7	597.7	450.9	377.5	338.5	260.4	201.9
122.5°	736.5	790.1	736.5	682.8	669.4	570.3	438.1	372.1	336.6	265.9	212.8
125°	680.4	729.9	680.4	631.0	618.7	534.5	422.3	366.1	335.2	273.3	226.8
127.5°	630.1	671.8	630.1	588.4	578.0	505.7	409.3	361.1	334.3	280.7	240.5
130°	600.4	638.9	600.4	561.9	552.3	487.9	402.1	359.2	334.8	286.1	249.5
132.5°	573.5	608.0	573.5	539.0	530.4	472.8	396.0	357.6	335.2	290.4	256.9
135°	536.6	566.3	536.6	506.9	499.4	451.2	386.9	354.7	334.9	295.2	265.4
137.5°	507.0	531.4	507.0	482.6	476.6	435.7	381.4	354.2	336.9	302.3	276.4
140°	486.6	509.4	486.6	463.9	458.2	423.0	376.1	352.6	337.3	306.7	283.7
142.5°	469.9	489.4	469.9	450.3	445.4	414.4	373.2	352.6	338.5	310.3	289.2
145°	444.7	459.5	444.7	429.8	426.1	400.8	367.1	350.2	338.5	315.2	297.6
147.5°	425.3	437.5	425.3	413.0	409.9	390.0	363.4	350.2	340.8	322.1	308.1
150°	413.1	423.0	413.1	403.1	400.6	383.8	361.4	350.2	342.0	325.8	313.5
152.5°	402.6	410.2	402.6	395.1	393.2	378.9	359.7	350.2	342.8	328.1	317.1
155°	390.7	395.6	390.7	385.7	384.5	373.1	357.8	350.2	344.6	333.3	324.9
157.5°	381.2	384.7	381.2	377.7	376.8	368.0	356.1	350.2	346.3	338.6	332.8
160°	375.5	377.5	375.5	373.5	373.1	365.4	355.3	350.2	347.1	341.0	336.3
162.5°	371.8	373.8	371.8	369.9	369.4	363.1	354.5	350.2	348.0	343.5	340.2
165°	366.5	368.5	366.5	364.5	364.0	359.4	353.3	350.2	349.2	347.2	345.7
167.5°	362.7	363.5	362.7	361.8	361.6	358.6	354.6	352.6	351.7	350.0	348.7
170°	361.6	361.6	361.6	361.6	361.6	358.6	354.6	352.6	352.5	352.4	352.4
172.5°	358.7	358.0	358.7	359.5	359.7	357.3	354.1	352.6	352.6	352.6	352.6
175°	357.0	357.0	357.0	357.0	357.0	355.6	353.6	352.6	353.0	354.0	354.7
177.5°	355.6	354.7	355.6	356.4	356.6	355.4	353.8	353.0	353.4	354.2	354.7
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



TEST NUMBER: P934223

CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	830.4	825.7	825.7	818.0	814.9	812.6	808.7	797.1	793.9	790.9	795.5
5°	837.4	828.8	822.6	808.7	797.1	792.4	777.7	749.8	731.2	717.3	709.6
7.5°	838.9	828.1	816.4	794.7	766.8	754.4	709.6	658.4	644.5	632.1	624.3
10°	837.4	825.0	808.7	776.2	710.3	688.6	643.7	610.4	601.8	599.5	601.8
12.5°	831.9	820.3	797.9	743.6	651.4	636.7	610.4	591.1	589.4	593.4	614.2
15°	822.6	811.8	785.5	700.2	618.9	608.1	589.4	582.5	591.1	618.2	680.9
17.5°	813.4	801.0	768.4	657.7	594.1	586.4	573.2	587.1	635.2	671.6	692.5
20°	801.0	786.2	749.1	626.6	576.3	569.3	563.1	625.9	662.3	675.4	687.1
22.5°	786.2	770.7	722.7	605.0	557.7	552.3	556.2	647.6	662.3	671.6	681.7
25°	766.8	753.7	691.7	587.9	543.0	536.8	551.6	645.3	653.7	656.1	676.2
27.5°	749.1	732.0	659.2	572.4	525.2	522.8	555.4	635.2	641.4	643.7	665.4
30°	727.3	701.8	622.8	556.2	506.6	505.8	556.2	622.8	621.2	627.4	649.1
32.5°	704.9	656.9	581.7	536.0	488.8	488.0	550.8	604.2	602.7	611.1	627.4
35°	684.0	622.0	526.0	512.8	466.3	467.1	537.5	582.5	583.3	591.1	601.1
37.5°	662.3	591.8	464.8	487.3	444.6	444.6	519.8	562.3	560.8	563.1	577.1
40°	636.7	544.5	410.6	453.9	424.5	422.2	498.0	540.7	535.2	534.5	553.9
42.5°	609.6	492.6	370.3	409.8	401.2	398.2	471.7	514.4	504.3	506.6	531.4
45°	580.2	478.7	339.3	346.3	377.2	374.9	443.1	484.1	477.2	483.3	508.9
47.5°	550.8	450.8	329.2	287.4	351.7	350.9	411.3	454.7	450.8	457.0	484.1
50°	510.4	419.8	328.4	246.3	323.0	326.1	373.4	426.0	426.0	431.4	460.2
52.5°	458.5	381.8	298.2	223.1	289.7	299.0	340.0	401.2	402.8	408.3	433.7
55°	411.3	342.3	276.5	205.3	250.2	270.3	307.5	375.7	378.8	384.2	407.4
57.5°	367.9	285.1	271.9	184.3	213.8	233.2	278.9	350.9	352.4	357.1	379.5
60°	321.5	206.1	249.4	161.9	182.0	196.7	252.5	321.5	326.9	329.9	349.3
62.5°	268.8	149.5	226.1	146.4	166.6	169.6	230.8	293.6	300.5	302.8	314.5
65°	191.3	125.5	192.1	133.2	150.3	151.1	207.6	264.9	271.1	275.0	283.5
67.5°	129.4	102.3	146.4	120.8	137.9	138.7	185.1	231.6	240.2	243.2	248.6
70°	89.9	68.1	108.4	107.6	124.0	125.5	161.1	201.4	209.1	211.4	214.6
72.5°	65.8	55.0	89.9	96.8	109.2	110.8	136.4	167.3	175.1	177.4	178.9
75°	50.4	58.1	72.8	84.5	92.9	93.7	111.6	136.4	141.8	143.3	144.1
77.5°	40.3	54.2	53.4	68.1	75.9	74.4	87.5	105.3	110.0	110.0	110.0
80°	30.2	42.6	40.3	48.8	55.7	54.2	62.8	75.2	76.7	78.2	77.5
82.5°	22.5	27.1	27.1	31.0	37.2	35.7	41.8	48.8	48.8	48.8	50.4
85°	13.9	15.5	12.4	16.2	20.9	20.2	23.3	26.3	27.1	27.1	25.6
87.5°	8.5	7.0	3.8	6.2	9.3	9.3	10.9	11.6	10.9	10.9	10.9
90°	6.2	4.3	2.4	4.3	6.2	6.7	10.5	15.6	18.1	16.1	12.0
92.5°	41.9	25.7	9.5	25.7	41.9	46.0	64.6	89.5	101.9	89.2	64.1
95°	82.1	52.4	22.9	52.4	82.1	89.5	158.9	251.6	297.8	265.8	201.7
97.5°	91.8	65.7	39.5	65.7	91.8	98.3	214.1	368.5	445.7	425.4	384.8
100°	99.8	76.1	52.4	76.1	99.8	105.7	234.2	405.5	491.1	492.6	495.6
102.5°	107.6	85.5	63.3	85.5	107.6	113.1	243.4	417.1	504.0	529.8	581.4
105°	119.4	100.6	81.9	100.6	119.4	124.0	250.2	418.4	502.5	560.4	676.1
107.5°	135.8	118.4	100.9	118.4	135.8	140.2	251.5	399.8	473.9	554.6	716.1
110°	145.3	129.5	113.8	129.5	145.3	149.2	249.6	383.3	450.1	540.4	721.0



TEST NUMBER: P934223

CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	156.5	141.4	126.4	141.4	156.5	160.2	249.6	368.9	428.5	520.9	705.6
115°	173.2	159.3	145.5	159.3	173.2	176.6	251.9	352.4	402.6	491.6	669.5
117.5°	189.4	176.9	164.2	176.9	189.4	192.6	256.6	342.0	384.7	465.0	625.6
120°	198.9	187.0	175.2	187.0	198.9	201.9	260.4	338.5	377.5	450.9	597.7
122.5°	209.8	197.9	186.0	197.9	209.8	212.8	265.9	336.6	372.1	438.1	570.3
125°	224.1	213.2	202.4	213.2	224.1	226.8	273.3	335.2	366.1	422.3	534.5
127.5°	237.7	226.7	215.7	226.7	237.7	240.5	280.7	334.3	361.1	409.3	505.7
130°	246.6	234.7	222.8	234.7	246.6	249.5	286.1	334.8	359.2	402.1	487.9
132.5°	253.9	242.1	230.2	242.1	253.9	256.9	290.4	335.2	357.6	396.0	472.8
135°	262.7	251.9	241.2	251.9	262.7	265.4	295.2	334.9	354.7	386.9	451.2
137.5°	273.7	263.0	252.3	263.0	273.7	276.4	302.3	336.9	354.2	381.4	435.7
140°	281.3	271.5	261.6	271.5	281.3	283.7	306.7	337.3	352.6	376.1	423.0
142.5°	286.9	277.8	268.7	277.8	286.9	289.2	310.3	338.5	352.6	373.2	414.4
145°	295.6	287.7	279.7	287.7	295.6	297.6	315.2	338.5	350.2	367.1	400.8
147.5°	306.2	298.4	290.7	298.4	306.2	308.1	322.1	340.8	350.2	363.4	390.0
150°	311.8	304.8	297.8	304.8	311.8	313.5	325.8	342.0	350.2	361.4	383.8
152.5°	315.8	310.5	305.2	310.5	315.8	317.1	328.1	342.8	350.2	359.7	378.9
155°	323.9	320.1	316.2	320.1	323.9	324.9	333.3	344.6	350.2	357.8	373.1
157.5°	331.9	328.0	324.2	328.0	331.9	332.8	338.6	346.3	350.2	356.1	368.0
160°	335.6	332.6	329.7	332.6	335.6	336.3	341.0	347.1	350.2	355.3	365.4
162.5°	339.6	337.4	335.2	337.4	339.6	340.2	343.5	348.0	350.2	354.5	363.1
165°	345.1	343.1	341.1	343.1	345.1	345.7	347.2	349.2	350.2	353.3	359.4
167.5°	348.5	347.5	346.6	347.5	348.5	348.7	350.0	351.7	352.6	354.6	358.6
170°	352.1	351.1	350.2	351.1	352.1	352.4	352.4	352.5	352.6	354.6	358.6
172.5°	352.5	352.4	352.1	352.4	352.5	352.6	352.6	352.6	352.6	354.1	357.3
175°	354.7	354.7	354.7	354.7	354.7	354.7	354.0	353.0	352.6	353.6	355.6
177.5°	354.7	354.7	354.7	354.7	354.7	354.7	354.2	353.4	353.0	353.8	355.4
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



TEST NUMBER: P934223
 CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	790.1	787.8	790.9	782.3	790.9	787.8	790.1	795.5	790.9	793.9	797.1
5°	693.3	689.4	677.0	666.9	677.0	689.4	693.3	709.6	717.3	731.2	749.8
7.5°	619.7	616.6	613.5	607.3	613.5	616.6	619.7	624.3	632.1	644.5	658.4
10°	603.4	604.2	608.8	608.1	608.8	604.2	603.4	601.8	599.5	601.8	610.4
12.5°	645.3	652.2	677.8	676.2	677.8	652.2	645.3	614.2	593.4	589.4	591.1
15°	693.3	695.6	701.0	701.8	701.0	695.6	693.3	680.9	618.2	591.1	582.5
17.5°	697.9	698.7	702.5	702.5	702.5	698.7	697.9	692.5	671.6	635.2	587.1
20°	694.1	695.6	703.3	704.9	703.3	695.6	694.1	687.1	675.4	662.3	625.9
22.5°	692.5	695.6	701.8	701.0	701.8	695.6	692.5	681.7	671.6	662.3	647.6
25°	684.8	684.8	685.5	686.3	685.5	684.8	684.8	676.2	656.1	653.7	645.3
27.5°	668.5	670.1	674.7	673.9	674.7	670.1	668.5	665.4	643.7	641.4	635.2
30°	653.7	652.2	648.3	645.3	648.3	652.2	653.7	649.1	627.4	621.2	622.8
32.5°	629.0	625.1	621.2	618.9	621.2	625.1	629.0	627.4	611.1	602.7	604.2
35°	599.5	600.3	599.5	597.2	599.5	600.3	599.5	601.1	591.1	583.3	582.5
37.5°	578.7	580.2	579.4	576.3	579.4	580.2	578.7	577.1	563.1	560.8	562.3
40°	556.9	557.7	556.9	554.6	556.9	557.7	556.9	553.9	534.5	535.2	540.7
42.5°	536.0	535.2	532.9	531.4	532.9	535.2	536.0	531.4	506.6	504.3	514.4
45°	512.1	512.8	508.1	505.8	508.1	512.8	512.1	508.9	483.3	477.2	484.1
47.5°	488.0	488.0	484.1	481.8	484.1	488.0	488.0	484.1	457.0	450.8	454.7
50°	462.5	461.7	456.2	455.5	456.2	461.7	462.5	460.2	431.4	426.0	426.0
52.5°	433.0	433.0	433.7	435.4	433.7	433.0	433.0	433.7	408.3	402.8	401.2
55°	407.4	408.3	413.6	415.2	413.6	408.3	407.4	407.4	384.2	378.8	375.7
57.5°	381.1	381.1	385.0	385.0	385.0	381.1	381.1	379.5	357.1	352.4	350.9
60°	350.9	352.4	355.5	354.7	355.5	352.4	350.9	349.3	329.9	326.9	321.5
62.5°	319.2	320.7	321.5	319.9	321.5	320.7	319.2	314.5	302.8	300.5	293.6
65°	285.8	287.4	288.1	286.6	288.1	287.4	285.8	283.5	275.0	271.1	264.9
67.5°	251.7	250.9	250.2	253.3	250.2	250.9	251.7	248.6	243.2	240.2	231.6
70°	216.9	216.9	216.1	217.7	216.1	216.9	216.9	214.6	211.4	209.1	201.4
72.5°	179.7	178.9	182.0	179.7	182.0	178.9	179.7	178.9	177.4	175.1	167.3
75°	143.3	144.8	143.3	145.6	143.3	144.8	143.3	144.1	143.3	141.8	136.4
77.5°	109.2	110.8	109.2	109.2	109.2	110.8	109.2	110.0	110.0	110.0	105.3
80°	77.5	76.7	76.7	75.9	76.7	76.7	77.5	77.5	78.2	76.7	75.2
82.5°	49.6	48.8	48.8	50.4	48.8	48.8	49.6	50.4	48.8	48.8	48.8
85°	27.1	27.9	26.3	26.3	26.3	27.9	27.1	25.6	27.1	27.1	26.3
87.5°	10.1	9.3	9.3	9.3	9.3	9.3	10.1	10.9	10.9	10.9	11.6
90°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	16.1	18.1	15.6
92.5°	45.2	43.4	36.2	29.0	36.2	43.4	45.2	64.1	89.2	101.9	89.5
95°	153.5	148.1	126.3	104.5	126.3	148.1	153.5	201.7	265.8	297.8	251.6
97.5°	354.4	344.0	302.6	261.2	302.6	344.0	354.4	384.8	425.4	445.7	368.5
100°	497.8	485.5	436.1	386.6	436.1	485.5	497.8	495.6	492.6	491.1	405.5
102.5°	620.2	609.6	567.3	524.9	567.3	609.6	620.2	581.4	529.8	504.0	417.1
105°	763.0	757.3	734.6	711.8	734.6	757.3	763.0	676.1	560.4	502.5	418.4
107.5°	837.2	838.6	844.1	849.6	844.1	838.6	837.2	716.1	554.6	473.9	399.8
110°	856.3	862.2	885.9	909.6	885.9	862.2	856.3	721.0	540.4	450.1	383.3



TEST NUMBER: P934223

CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	844.2	853.2	889.7	926.0	889.7	853.2	844.2	705.6	520.9	428.5	368.9
115°	803.0	815.6	866.0	916.5	866.0	815.6	803.0	669.5	491.6	402.6	352.4
117.5°	746.1	760.1	816.0	872.0	816.0	760.1	746.1	625.6	465.0	384.7	342.0
120°	707.7	721.3	775.7	830.1	775.7	721.3	707.7	597.7	450.9	377.5	338.5
122.5°	669.4	682.8	736.5	790.1	736.5	682.8	669.4	570.3	438.1	372.1	336.6
125°	618.7	631.0	680.4	729.9	680.4	631.0	618.7	534.5	422.3	366.1	335.2
127.5°	578.0	588.4	630.1	671.8	630.1	588.4	578.0	505.7	409.3	361.1	334.3
130°	552.3	561.9	600.4	638.9	600.4	561.9	552.3	487.9	402.1	359.2	334.8
132.5°	530.4	539.0	573.5	608.0	573.5	539.0	530.4	472.8	396.0	357.6	335.2
135°	499.4	506.9	536.6	566.3	536.6	506.9	499.4	451.2	386.9	354.7	334.9
137.5°	476.6	482.6	507.0	531.4	507.0	482.6	476.6	435.7	381.4	354.2	336.9
140°	458.2	463.9	486.6	509.4	486.6	463.9	458.2	423.0	376.1	352.6	337.3
142.5°	445.4	450.3	469.9	489.4	469.9	450.3	445.4	414.4	373.2	352.6	338.5
145°	426.1	429.8	444.7	459.5	444.7	429.8	426.1	400.8	367.1	350.2	338.5
147.5°	409.9	413.0	425.3	437.5	425.3	413.0	409.9	390.0	363.4	350.2	340.8
150°	400.6	403.1	413.1	423.0	413.1	403.1	400.6	383.8	361.4	350.2	342.0
152.5°	393.2	395.1	402.6	410.2	402.6	395.1	393.2	378.9	359.7	350.2	342.8
155°	384.5	385.7	390.7	395.6	390.7	385.7	384.5	373.1	357.8	350.2	344.6
157.5°	376.8	377.7	381.2	384.7	381.2	377.7	376.8	368.0	356.1	350.2	346.3
160°	373.1	373.5	375.5	377.5	375.5	373.5	373.1	365.4	355.3	350.2	347.1
162.5°	369.4	369.9	371.8	373.8	371.8	369.9	369.4	363.1	354.5	350.2	348.0
165°	364.0	364.5	366.5	368.5	366.5	364.5	364.0	359.4	353.3	350.2	349.2
167.5°	361.6	361.8	362.7	363.5	362.7	361.8	361.6	358.6	354.6	352.6	351.7
170°	361.6	361.6	361.6	361.6	361.6	361.6	361.6	358.6	354.6	352.6	352.5
172.5°	359.7	359.5	358.7	358.0	358.7	359.5	359.7	357.3	354.1	352.6	352.6
175°	357.0	357.0	357.0	357.0	357.0	357.0	357.0	355.6	353.6	352.6	353.0
177.5°	356.6	356.4	355.6	354.7	355.6	356.4	356.6	355.4	353.8	353.0	353.4
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



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CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	818.7	818.7	818.7	818.7	818.7
2.5°	808.7	812.6	814.9	818.0	825.7
5°	777.7	792.4	797.1	808.7	822.6
7.5°	709.6	754.4	766.8	794.7	816.4
10°	643.7	688.6	710.3	776.2	808.7
12.5°	610.4	636.7	651.4	743.6	797.9
15°	589.4	608.1	618.9	700.2	785.5
17.5°	573.2	586.4	594.1	657.7	768.4
20°	563.1	569.3	576.3	626.6	749.1
22.5°	556.2	552.3	557.7	605.0	722.7
25°	551.6	536.8	543.0	587.9	691.7
27.5°	555.4	522.8	525.2	572.4	659.2
30°	556.2	505.8	506.6	556.2	622.8
32.5°	550.8	488.0	488.8	536.0	581.7
35°	537.5	467.1	466.3	512.8	526.0
37.5°	519.8	444.6	444.6	487.3	464.8
40°	498.0	422.2	424.5	453.9	410.6
42.5°	471.7	398.2	401.2	409.8	370.3
45°	443.1	374.9	377.2	346.3	339.3
47.5°	411.3	350.9	351.7	287.4	329.2
50°	373.4	326.1	323.0	246.3	328.4
52.5°	340.0	299.0	289.7	223.1	298.2
55°	307.5	270.3	250.2	205.3	276.5
57.5°	278.9	233.2	213.8	184.3	271.9
60°	252.5	196.7	182.0	161.9	249.4
62.5°	230.8	169.6	166.6	146.4	226.1
65°	207.6	151.1	150.3	133.2	192.1
67.5°	185.1	138.7	137.9	120.8	146.4
70°	161.1	125.5	124.0	107.6	108.4
72.5°	136.4	110.8	109.2	96.8	89.9
75°	111.6	93.7	92.9	84.5	72.8
77.5°	87.5	74.4	75.9	68.1	53.4
80°	62.8	54.2	55.7	48.8	40.3
82.5°	41.8	35.7	37.2	31.0	27.1
85°	23.3	20.2	20.9	16.2	12.4
87.5°	10.9	9.3	9.3	6.2	3.8
90°	10.5	6.7	6.2	4.3	2.4
92.5°	64.6	46.0	41.9	25.7	9.5
95°	158.9	89.5	82.1	52.4	22.9
97.5°	214.1	98.3	91.8	65.7	39.5
100°	234.2	105.7	99.8	76.1	52.4
102.5°	243.4	113.1	107.6	85.5	63.3
105°	250.2	124.0	119.4	100.6	81.9
107.5°	251.5	140.2	135.8	118.4	100.9
110°	249.6	149.2	145.3	129.5	113.8



TEST NUMBER: P934223

CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	249.6	160.2	156.5	141.4	126.4
115°	251.9	176.6	173.2	159.3	145.5
117.5°	256.6	192.6	189.4	176.9	164.2
120°	260.4	201.9	198.9	187.0	175.2
122.5°	265.9	212.8	209.8	197.9	186.0
125°	273.3	226.8	224.1	213.2	202.4
127.5°	280.7	240.5	237.7	226.7	215.7
130°	286.1	249.5	246.6	234.7	222.8
132.5°	290.4	256.9	253.9	242.1	230.2
135°	295.2	265.4	262.7	251.9	241.2
137.5°	302.3	276.4	273.7	263.0	252.3
140°	306.7	283.7	281.3	271.5	261.6
142.5°	310.3	289.2	286.9	277.8	268.7
145°	315.2	297.6	295.6	287.7	279.7
147.5°	322.1	308.1	306.2	298.4	290.7
150°	325.8	313.5	311.8	304.8	297.8
152.5°	328.1	317.1	315.8	310.5	305.2
155°	333.3	324.9	323.9	320.1	316.2
157.5°	338.6	332.8	331.9	328.0	324.2
160°	341.0	336.3	335.6	332.6	329.7
162.5°	343.5	340.2	339.6	337.4	335.2
165°	347.2	345.7	345.1	343.1	341.1
167.5°	350.0	348.7	348.5	347.5	346.6
170°	352.4	352.4	352.1	351.1	350.2
172.5°	352.6	352.6	352.5	352.4	352.1
175°	354.0	354.7	354.7	354.7	354.7
177.5°	354.2	354.7	354.7	354.7	354.7
180°	354.7	354.7	354.7	354.7	354.7



TEST NUMBER: P934223
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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	10.25	11.10	11.23	12.08	13.38	13.08	13.92	14.05	14.91	16.21
	3H	10.73	11.48	11.71	12.48	13.80	14.42	15.18	15.40	16.17	17.49
	4H	10.92	11.63	11.92	12.63	13.96	14.86	15.58	15.86	16.58	17.91
	6H	11.04	11.70	12.05	12.70	14.04	15.14	15.80	16.15	16.81	18.15
	8H	11.04	11.66	12.05	12.69	14.02	15.22	15.85	16.23	16.87	18.21
	12H	11.01	11.60	12.03	12.62	13.98	15.26	15.85	16.28	16.87	18.23
4H	2H	11.28	12.00	12.29	13.00	14.33	13.48	14.20	14.49	15.20	16.53
	3H	12.31	12.90	13.32	13.93	15.28	14.99	15.58	16.00	16.61	17.96
	4H	12.58	13.13	13.60	14.15	15.52	15.51	16.06	16.54	17.08	18.45
	6H	12.71	13.18	13.74	14.22	15.58	15.88	16.35	16.91	17.39	18.75
	8H	12.71	13.15	13.75	14.19	15.57	15.98	16.42	17.02	17.46	18.84
	12H	12.68	13.07	13.73	14.13	15.51	16.04	16.43	17.09	17.49	18.87
8H	4H	13.03	13.47	14.07	14.51	15.89	15.64	16.07	16.67	17.11	18.49
	6H	13.30	13.66	14.35	14.74	16.11	16.07	16.43	17.13	17.51	18.89
	8H	13.34	13.66	14.40	14.72	16.11	16.22	16.54	17.29	17.60	19.00
	12H	13.32	13.60	14.39	14.66	16.10	16.32	16.60	17.39	17.66	19.09
12H	4H	13.04	13.44	14.09	14.49	15.87	15.60	16.00	16.65	17.05	18.43
	6H	13.36	13.67	14.42	14.74	16.13	16.07	16.39	17.13	17.45	18.85
	8H	13.42	13.70	14.49	14.76	16.20	16.23	16.51	17.30	17.57	19.00