

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: P934370

Luminaire Tested: SQ4-FA-050U-075D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934370
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

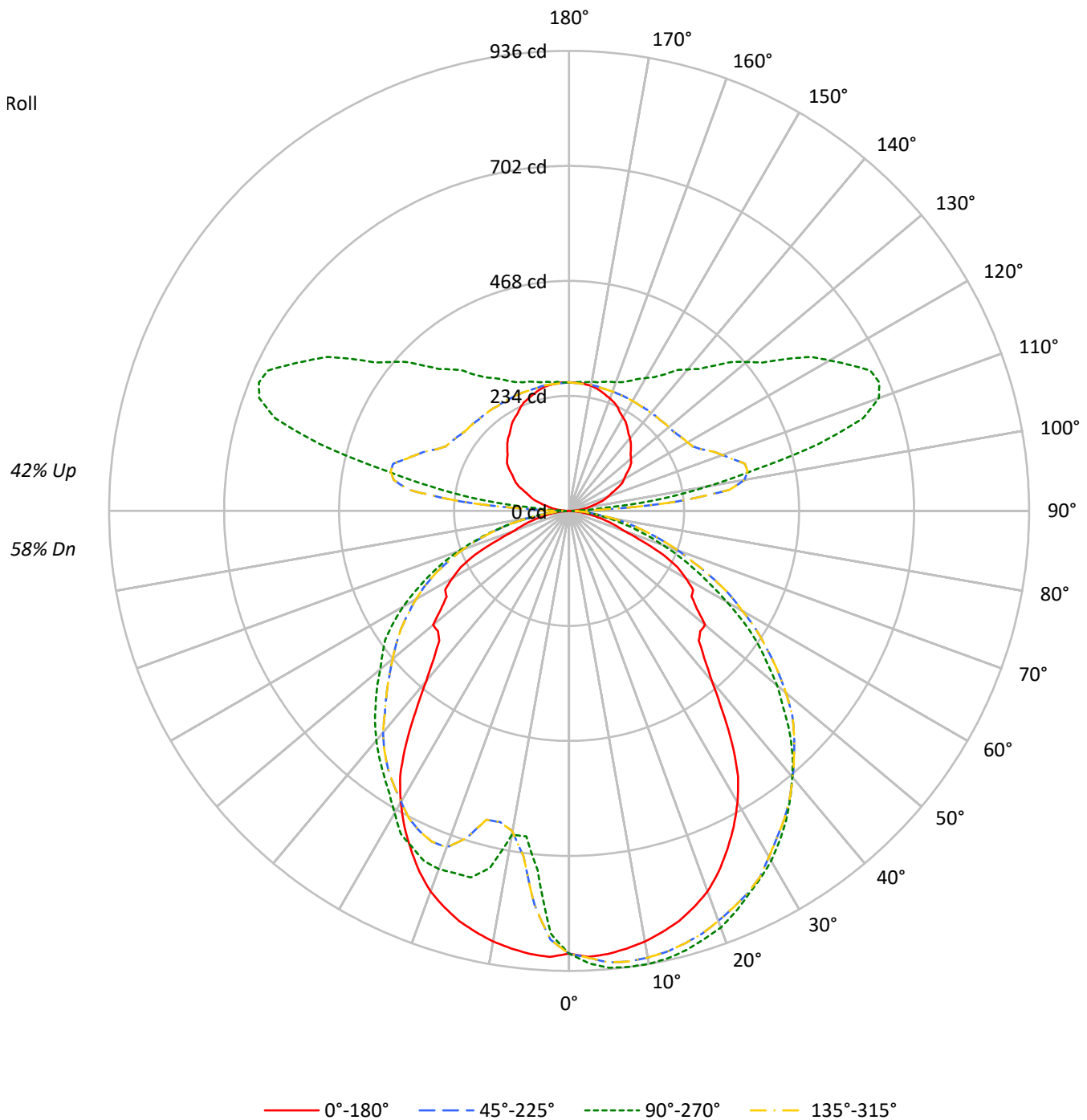
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4032.4 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 36.4
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





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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8357	8357	8357	8357
5°	8410	8437	8410	6634
10°	8345	8311	8345	5941
15°	8245	8131	8245	6789
20°	8063	7917	8063	6803
25°	7701	7606	7701	6659
30°	7236	7348	7236	6343
35°	6442	7021	6442	5995
40°	5358	6637	5358	5732
45°	4779	6187	4779	5429
50°	5065	5650	5065	5127
55°	4752	5071	4752	4952
60°	4879	4307	4879	4535
65°	4403	3560	4403	3980
70°	3029	2836	3029	3335
75°	2627	2098	2627	2511
80°	2073	1387	2073	1510
85°	1126	735	1126	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7337 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	2.0
10°-20°	230.8	5.7
20°-30°	356.8	8.8
30°-40°	426.0	10.6
40°-50°	428.5	10.6
50°-60°	372.8	9.2
60°-70°	264.3	6.6
70°-80°	139.8	3.5
80°-90°	35.8	0.9
90°-100°	127.5	3.2
100°-110°	335.3	8.3
110°-120°	347.7	8.6
120°-130°	278.9	6.9
130°-140°	218.8	5.4
140°-150°	168.0	4.2
150°-160°	121.0	3.0
160°-170°	74.0	1.8
170°-180°	25.0	0.6
0°-30°	669.0	16.6
0°-40°	1095.0	27.2
0°-60°	1896.3	47.0
0°-90°	2336.3	57.9
90°-120°	810.5	20.1
90°-150°	1476.2	36.6
90°-180°	1696.0	42.1
0°-180°	4032.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	901	901	901	901	901	
5°	905	933	905	734	905	86
15°	864	925	864	772	864	243
25°	761	862	761	755	761	349
35°	579	769	579	657	579	358
45°	373	634	373	556	373	299
55°	304	468	304	457	304	280
65°	211	282	211	315	211	202
75°	80	134	80	160	80	84
85°	14	34	14	29	14	18
90°	2	7	2	7	2	2
95°	17	77	17	77	17	19
105°	60	525	60	525	60	64
115°	107	676	107	676	107	106
125°	149	538	149	538	149	133
135°	178	418	178	418	178	138
145°	206	339	206	339	206	129
155°	233	292	233	292	233	107
165°	252	272	252	272	252	71
175°	262	263	262	263	262	25
180°	262	262	262	262	262	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	908.3	908.3	913.5	915.2	915.2	912.7	910.1	912.7	920.3	922.9	922.0
5°	904.9	911.8	921.2	922.9	924.6	923.7	922.0	923.7	932.3	934.0	934.8
7.5°	898.1	911.0	922.9	925.4	928.0	925.4	924.6	926.3	934.8	936.5	936.5
10°	889.6	907.5	921.2	922.9	925.4	922.9	922.9	926.3	934.8	936.5	937.4
12.5°	877.6	902.4	915.2	916.9	920.3	919.5	918.6	922.0	930.6	932.3	932.3
15°	864.0	893.0	904.9	906.6	912.7	911.0	911.0	914.4	923.7	926.3	925.4
17.5°	845.3	881.1	894.7	897.2	901.5	900.6	901.5	904.9	913.5	915.2	916.1
20°	824.0	864.9	881.1	883.6	887.9	887.9	887.9	892.1	900.6	904.1	904.1
22.5°	795.0	847.8	864.9	866.6	871.7	871.7	873.4	879.3	887.0	887.9	887.9
25°	760.9	829.1	843.6	848.7	853.8	856.3	858.9	862.3	864.9	864.0	864.9
27.5°	725.1	805.2	824.0	827.4	834.2	836.7	840.2	841.0	841.9	844.4	842.7
30°	685.1	772.0	800.1	803.5	814.6	816.3	812.9	814.6	818.9	820.6	822.3
32.5°	639.9	722.6	775.4	783.1	793.3	788.2	787.3	789.9	796.7	796.7	798.4
35°	578.6	684.2	752.4	759.2	766.9	760.9	764.3	765.2	769.4	772.0	771.1
37.5°	511.3	651.0	728.5	733.7	739.6	732.0	737.1	739.6	743.0	741.3	741.3
40°	451.6	599.0	700.4	703.8	708.9	703.0	708.1	709.8	711.5	709.8	708.9
42.5°	407.3	542.0	670.6	674.9	671.5	675.7	677.4	680.8	678.3	674.9	674.9
45°	373.3	526.6	638.2	643.3	638.2	645.0	647.6	647.6	639.9	638.2	637.4
47.5°	362.2	495.9	605.9	605.9	603.3	611.8	616.1	610.1	602.4	599.9	599.9
50°	361.3	461.9	561.6	558.1	570.1	580.3	576.0	570.1	564.1	554.7	554.7
52.5°	328.1	420.1	504.5	517.2	536.0	542.0	535.1	529.2	519.0	514.7	511.3
55°	304.2	376.7	452.5	478.1	497.7	505.3	492.5	486.6	471.2	468.7	467.0
57.5°	299.1	313.6	404.8	437.2	461.0	460.2	452.5	441.4	428.6	426.1	425.2
60°	274.3	226.6	353.7	392.0	416.7	414.2	407.3	397.1	385.2	383.5	381.8
62.5°	248.8	164.4	295.6	339.2	374.1	373.3	367.3	352.0	343.4	339.2	335.8
65°	211.3	138.0	210.4	282.0	332.4	334.1	321.3	310.2	300.8	295.6	294.8
67.5°	161.0	112.5	142.3	235.2	292.2	290.5	274.3	269.2	257.3	254.7	249.6
70°	119.3	75.0	98.8	190.8	253.0	248.8	236.0	230.0	219.0	213.0	209.6
72.5°	98.8	60.5	72.4	148.2	213.0	207.9	196.8	190.0	180.6	175.5	172.1
75°	80.1	63.9	55.4	109.9	173.0	169.5	159.3	152.5	144.8	138.0	138.9
77.5°	58.8	59.6	44.3	80.9	137.2	132.1	126.1	117.6	114.2	107.4	107.4
80°	44.3	46.9	33.2	55.4	98.8	98.8	93.7	87.8	81.8	78.4	78.4
82.5°	29.8	29.8	24.7	34.9	67.3	64.8	61.3	59.6	56.2	54.5	54.5
85°	13.6	17.0	15.3	21.3	36.6	38.3	38.3	36.6	35.8	34.1	34.9
87.5°	4.3	7.7	9.4	11.9	18.7	19.6	20.4	20.4	20.4	21.3	21.3
90°	1.8	3.2	4.6	4.9	7.8	11.5	13.4	11.8	8.9	6.6	6.6
92.5°	7.0	18.9	30.9	33.9	47.6	65.9	75.1	65.9	47.3	33.4	32.0
95°	16.9	38.7	60.6	66.0	117.2	185.5	219.6	196.0	148.7	113.2	109.2
97.5°	29.1	48.4	67.6	72.5	157.9	271.8	328.7	313.8	283.9	261.5	253.8
100°	38.6	56.1	73.6	78.0	172.7	299.1	362.3	363.4	365.6	367.2	358.1
102.5°	46.7	63.0	79.3	83.4	179.5	307.7	371.7	390.8	428.9	457.4	449.6
105°	60.4	74.2	88.0	91.5	184.5	308.7	370.7	413.4	498.8	562.8	558.7
107.5°	74.5	87.3	100.2	103.4	185.5	295.0	349.7	409.2	528.3	617.6	618.6
110°	83.9	95.5	107.2	110.1	184.1	282.8	332.1	398.7	531.8	631.7	636.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	93.2	104.3	115.4	118.2	184.1	272.1	316.1	384.3	520.5	622.7	629.5
115°	107.3	117.5	127.7	130.3	185.8	259.9	296.9	362.5	493.8	592.3	601.6
117.5°	121.2	130.4	139.7	142.0	189.3	252.3	283.8	343.0	461.4	550.3	560.6
120°	129.2	138.0	146.7	148.9	192.1	249.7	278.5	332.6	440.9	522.1	532.2
122.5°	137.2	146.0	154.8	157.0	196.1	248.4	274.4	323.2	420.7	493.8	503.7
125°	149.3	157.3	165.3	167.3	201.6	247.3	270.1	311.5	394.3	456.4	465.5
127.5°	159.1	167.2	175.3	177.4	207.0	246.7	266.4	301.9	373.0	426.3	434.0
130°	164.4	173.1	181.8	184.0	211.0	247.0	265.0	296.7	360.0	407.4	414.5
132.5°	169.8	178.6	187.3	189.5	214.3	247.3	263.8	292.1	348.7	391.2	397.6
135°	177.9	185.8	193.8	195.8	217.8	247.0	261.6	285.3	332.8	368.4	373.9
137.5°	186.2	194.0	201.9	203.9	223.1	248.5	261.3	281.3	321.5	351.5	356.1
140°	193.0	200.2	207.5	209.3	226.2	248.8	260.0	277.4	312.1	338.1	342.2
142.5°	198.3	205.0	211.6	213.3	228.9	249.6	260.0	275.3	305.7	328.5	332.1
145°	206.4	212.1	218.0	219.5	232.4	249.7	258.3	270.8	295.6	314.3	317.0
147.5°	214.4	220.2	225.8	227.2	237.6	251.4	258.3	268.1	287.7	302.4	304.7
150°	219.6	224.8	230.0	231.2	240.3	252.3	258.3	266.6	283.1	295.6	297.4
152.5°	225.1	229.0	232.9	233.9	242.1	252.9	258.3	265.4	279.5	290.1	291.5
155°	233.2	236.1	239.0	239.7	245.9	254.2	258.3	263.9	275.2	283.6	284.6
157.5°	239.2	242.0	244.8	245.5	249.7	255.4	258.3	262.7	271.4	278.0	278.7
160°	243.2	245.4	247.6	248.1	251.5	256.0	258.3	262.1	269.6	275.2	275.5
162.5°	247.3	248.9	250.5	250.9	253.4	256.7	258.3	261.5	267.8	272.6	272.9
165°	251.7	253.1	254.7	255.0	256.1	257.6	258.3	260.5	265.1	268.5	268.8
167.5°	255.7	256.4	257.0	257.2	258.2	259.4	260.0	261.6	264.5	266.8	266.9
170°	258.3	259.0	259.7	259.9	259.9	260.0	260.0	261.6	264.5	266.8	266.8
172.5°	259.7	259.9	260.0	260.0	260.0	260.0	260.0	261.2	263.5	265.3	265.1
175°	261.6	261.6	261.6	261.6	261.1	260.4	260.0	260.8	262.3	263.4	263.4
177.5°	261.6	261.6	261.6	261.6	261.2	260.7	260.5	261.1	262.2	263.1	262.9
180°	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	923.7	921.2	923.7	922.0	922.9	920.3	912.7	910.1	912.7	915.2	915.2
5°	934.8	933.1	934.8	934.8	934.0	932.3	923.7	922.0	923.7	924.6	922.9
7.5°	938.2	935.7	938.2	936.5	936.5	934.8	926.3	924.6	925.4	928.0	925.4
10°	938.2	935.7	938.2	937.4	936.5	934.8	926.3	922.9	922.9	925.4	922.9
12.5°	934.0	932.3	934.0	932.3	932.3	930.6	922.0	918.6	919.5	920.3	916.9
15°	927.1	924.6	927.1	925.4	926.3	923.7	914.4	911.0	911.0	912.7	906.6
17.5°	916.9	913.5	916.9	916.1	915.2	913.5	904.9	901.5	900.6	901.5	897.2
20°	904.9	902.4	904.9	904.1	904.1	900.6	892.1	887.9	887.9	887.9	883.6
22.5°	886.2	883.6	886.2	887.9	887.9	887.0	879.3	873.4	871.7	871.7	866.6
25°	864.9	862.3	864.9	864.9	864.0	864.9	862.3	858.9	856.3	853.8	848.7
27.5°	844.4	842.7	844.4	842.7	844.4	841.9	841.0	840.2	836.7	834.2	827.4
30°	824.0	822.3	824.0	822.3	820.6	818.9	814.6	812.9	816.3	814.6	803.5
32.5°	798.4	796.7	798.4	798.4	796.7	796.7	789.9	787.3	788.2	793.3	783.1
35°	772.0	769.4	772.0	771.1	772.0	769.4	765.2	764.3	760.9	766.9	759.2
37.5°	741.3	738.8	741.3	741.3	741.3	743.0	739.6	737.1	732.0	739.6	733.7
40°	709.8	706.4	709.8	708.9	709.8	711.5	709.8	708.1	703.0	708.9	703.8
42.5°	674.0	673.2	674.0	674.9	674.9	678.3	680.8	677.4	675.7	671.5	674.9
45°	635.7	634.0	635.7	637.4	638.2	639.9	647.6	647.6	645.0	638.2	643.3
47.5°	594.8	590.5	594.8	599.9	599.9	602.4	610.1	616.1	611.8	603.3	605.9
50°	551.3	552.2	551.3	554.7	554.7	564.1	570.1	576.0	580.3	570.1	558.1
52.5°	508.7	507.9	508.7	511.3	514.7	519.0	529.2	535.1	542.0	536.0	517.2
55°	466.1	467.8	466.1	467.0	468.7	471.2	486.6	492.5	505.3	497.7	478.1
57.5°	423.5	421.0	423.5	425.2	426.1	428.6	441.4	452.5	460.2	461.0	437.2
60°	374.1	370.7	374.1	381.8	383.5	385.2	397.1	407.3	414.2	416.7	392.0
62.5°	330.7	324.7	330.7	335.8	339.2	343.4	352.0	367.3	373.3	374.1	339.2
65°	284.6	282.0	284.6	294.8	295.6	300.8	310.2	321.3	334.1	332.4	282.0
67.5°	242.8	242.8	242.8	249.6	254.7	257.3	269.2	274.3	290.5	292.2	235.2
70°	204.5	203.6	204.5	209.6	213.0	219.0	230.0	236.0	248.8	253.0	190.8
72.5°	167.8	167.0	167.8	172.1	175.5	180.6	190.0	196.8	207.9	213.0	148.2
75°	135.5	133.8	135.5	138.9	138.0	144.8	152.5	159.3	169.5	173.0	109.9
77.5°	103.9	103.9	103.9	107.4	107.4	114.2	117.6	126.1	132.1	137.2	80.9
80°	77.5	76.7	77.5	78.4	78.4	81.8	87.8	93.7	98.8	98.8	55.4
82.5°	54.5	52.8	54.5	54.5	54.5	56.2	59.6	61.3	64.8	67.3	34.9
85°	34.1	34.1	34.1	34.9	34.1	35.8	36.6	38.3	38.3	36.6	21.3
87.5°	22.2	21.3	22.2	21.3	21.3	20.4	20.4	20.4	19.6	18.7	11.9
90°	6.6	6.6	6.6	6.6	6.6	8.9	11.8	13.4	11.5	7.8	4.9
92.5°	26.8	21.4	26.8	32.0	33.4	47.3	65.9	75.1	65.9	47.6	33.9
95°	93.1	77.1	93.1	109.2	113.2	148.7	196.0	219.6	185.5	117.2	66.0
97.5°	223.2	192.6	223.2	253.8	261.5	283.9	313.8	328.7	271.8	157.9	72.5
100°	321.6	285.2	321.6	358.1	367.2	365.6	363.4	362.3	299.1	172.7	78.0
102.5°	418.4	387.2	418.4	449.6	457.4	428.9	390.8	371.7	307.7	179.5	83.4
105°	541.9	525.1	541.9	558.7	562.8	498.8	413.4	370.7	308.7	184.5	91.5
107.5°	622.6	626.7	622.6	618.6	617.6	528.3	409.2	349.7	295.0	185.5	103.4
110°	653.5	670.9	653.5	636.0	631.7	531.8	398.7	332.1	282.8	184.1	110.1



TEST NUMBER: P934370

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	656.3	683.1	656.3	629.5	622.7	520.5	384.3	316.1	272.1	184.1	118.2
115°	638.8	676.1	638.8	601.6	592.3	493.8	362.5	296.9	259.9	185.8	130.3
117.5°	601.9	643.3	601.9	560.6	550.3	461.4	343.0	283.8	252.3	189.3	142.0
120°	572.2	612.3	572.2	532.2	522.1	440.9	332.6	278.5	249.7	192.1	148.9
122.5°	543.3	582.9	543.3	503.7	493.8	420.7	323.2	274.4	248.4	196.1	157.0
125°	501.9	538.4	501.9	465.5	456.4	394.3	311.5	270.1	247.3	201.6	167.3
127.5°	464.8	495.5	464.8	434.0	426.3	373.0	301.9	266.4	246.7	207.0	177.4
130°	443.0	471.3	443.0	414.5	407.4	360.0	296.7	265.0	247.0	211.0	184.0
132.5°	423.0	448.5	423.0	397.6	391.2	348.7	292.1	263.8	247.3	214.3	189.5
135°	395.8	417.7	395.8	373.9	368.4	332.8	285.3	261.6	247.0	217.8	195.8
137.5°	373.9	391.9	373.9	356.1	351.5	321.5	281.3	261.3	248.5	223.1	203.9
140°	359.0	375.8	359.0	342.2	338.1	312.1	277.4	260.0	248.8	226.2	209.3
142.5°	346.6	361.1	346.6	332.1	328.5	305.7	275.3	260.0	249.6	228.9	213.3
145°	328.0	338.9	328.0	317.0	314.3	295.6	270.8	258.3	249.7	232.4	219.5
147.5°	313.7	322.7	313.7	304.7	302.4	287.7	268.1	258.3	251.4	237.6	227.2
150°	304.8	312.1	304.8	297.4	295.6	283.1	266.6	258.3	252.3	240.3	231.2
152.5°	297.0	302.5	297.0	291.5	290.1	279.5	265.4	258.3	252.9	242.1	233.9
155°	288.2	291.9	288.2	284.6	283.6	275.2	263.9	258.3	254.2	245.9	239.7
157.5°	281.2	283.8	281.2	278.7	278.0	271.4	262.7	258.3	255.4	249.7	245.5
160°	277.1	278.5	277.1	275.5	275.2	269.6	262.1	258.3	256.0	251.5	248.1
162.5°	274.3	275.7	274.3	272.9	272.6	267.8	261.5	258.3	256.7	253.4	250.9
165°	270.3	271.9	270.3	268.8	268.5	265.1	260.5	258.3	257.6	256.1	255.0
167.5°	267.5	268.1	267.5	266.9	266.8	264.5	261.6	260.0	259.4	258.2	257.2
170°	266.8	266.8	266.8	266.8	266.8	264.5	261.6	260.0	260.0	259.9	259.9
172.5°	264.6	264.1	264.6	265.1	265.3	263.5	261.2	260.0	260.0	260.0	260.0
175°	263.4	263.4	263.4	263.4	263.4	262.3	260.8	260.0	260.4	261.1	261.6
177.5°	262.3	261.6	262.3	262.9	263.1	262.2	261.1	260.5	260.7	261.2	261.6
180°	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6



TEST NUMBER: P934370
 CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	913.5	908.3	908.3	899.8	896.4	893.8	889.6	876.8	873.4	870.0	875.1
5°	921.2	911.8	904.9	889.6	876.8	871.7	855.5	824.8	804.4	789.0	780.5
7.5°	922.9	911.0	898.1	874.2	843.6	829.9	780.5	724.3	708.9	695.3	686.8
10°	921.2	907.5	889.6	853.8	781.4	757.5	708.1	671.5	662.1	659.5	662.1
12.5°	915.2	902.4	877.6	818.0	716.6	700.4	671.5	650.2	648.5	652.7	675.7
15°	904.9	893.0	864.0	770.3	680.8	668.9	648.5	640.8	650.2	680.0	749.0
17.5°	894.7	881.1	845.3	723.4	653.6	645.0	630.6	645.9	698.7	738.8	761.8
20°	881.1	864.9	824.0	689.4	634.0	626.3	619.5	688.5	728.5	743.0	755.8
22.5°	864.9	847.8	795.0	665.5	613.5	607.6	611.8	712.4	728.5	738.8	749.8
25°	843.6	829.1	760.9	646.8	597.3	590.5	606.7	709.8	719.2	721.7	743.9
27.5°	824.0	805.2	725.1	629.7	577.7	575.2	611.0	698.7	705.5	708.1	732.0
30°	800.1	772.0	685.1	611.8	557.3	556.4	611.8	685.1	683.4	690.2	714.1
32.5°	775.4	722.6	639.9	589.7	537.7	536.8	605.9	664.6	662.9	672.3	690.2
35°	752.4	684.2	578.6	564.1	513.0	513.8	591.4	640.8	641.6	650.2	661.2
37.5°	728.5	651.0	511.3	536.0	489.1	489.1	571.8	618.6	616.9	619.5	634.8
40°	700.4	599.0	451.6	499.4	467.0	464.4	547.9	594.8	588.8	588.0	609.3
42.5°	670.6	542.0	407.3	450.8	441.4	438.0	519.0	565.8	554.7	557.3	584.6
45°	638.2	526.6	373.3	380.9	415.0	412.5	487.4	532.6	524.9	531.7	559.8
47.5°	605.9	495.9	362.2	316.2	386.9	386.0	452.5	500.2	495.9	502.8	532.6
50°	561.6	461.9	361.3	270.9	355.4	358.8	410.7	468.7	468.7	474.6	506.2
52.5°	504.5	420.1	328.1	245.4	318.7	329.0	374.1	441.4	443.1	449.1	477.2
55°	452.5	376.7	304.2	225.8	275.2	297.3	338.3	413.3	416.7	422.7	448.2
57.5°	404.8	313.6	299.1	202.8	235.2	256.5	306.8	386.0	387.7	392.9	417.6
60°	353.7	226.6	274.3	178.1	200.2	216.4	277.8	353.7	359.6	363.0	384.3
62.5°	295.6	164.4	248.8	161.0	183.2	186.6	253.9	323.0	330.7	333.2	346.0
65°	210.4	138.0	211.3	146.5	165.3	166.1	228.3	291.4	298.2	302.5	311.9
67.5°	142.3	112.5	161.0	132.9	151.7	152.5	203.6	254.7	264.1	267.5	273.5
70°	98.8	75.0	119.3	118.4	136.3	138.0	177.2	221.5	230.0	232.6	236.0
72.5°	72.4	60.5	98.8	106.5	120.1	121.8	150.0	184.0	192.6	195.1	196.8
75°	55.4	63.9	80.1	92.9	102.2	103.1	122.7	150.0	155.9	157.6	158.5
77.5°	44.3	59.6	58.8	75.0	83.5	81.8	96.3	115.9	121.0	121.0	121.0
80°	33.2	46.9	44.3	53.7	61.3	59.6	69.0	82.6	84.3	86.1	85.2
82.5°	24.7	29.8	29.8	34.1	40.9	39.2	46.0	53.7	53.7	53.7	55.4
85°	15.3	17.0	13.6	17.9	23.0	22.2	25.6	29.0	29.8	29.8	28.1
87.5°	9.4	7.7	4.3	6.8	10.2	10.2	11.9	12.8	11.9	11.9	11.9
90°	4.6	3.2	1.8	3.2	4.6	4.9	7.8	11.5	13.4	11.8	8.9
92.5°	30.9	18.9	7.0	18.9	30.9	33.9	47.6	65.9	75.1	65.9	47.3
95°	60.6	38.7	16.9	38.7	60.6	66.0	117.2	185.5	219.6	196.0	148.7
97.5°	67.6	48.4	29.1	48.4	67.6	72.5	157.9	271.8	328.7	313.8	283.9
100°	73.6	56.1	38.6	56.1	73.6	78.0	172.7	299.1	362.3	363.4	365.6
102.5°	79.3	63.0	46.7	63.0	79.3	83.4	179.5	307.7	371.7	390.8	428.9
105°	88.0	74.2	60.4	74.2	88.0	91.5	184.5	308.7	370.7	413.4	498.8
107.5°	100.2	87.3	74.5	87.3	100.2	103.4	185.5	295.0	349.7	409.2	528.3
110°	107.2	95.5	83.9	95.5	107.2	110.1	184.1	282.8	332.1	398.7	531.8



TEST NUMBER: P934370

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	115.4	104.3	93.2	104.3	115.4	118.2	184.1	272.1	316.1	384.3	520.5
115°	127.7	117.5	107.3	117.5	127.7	130.3	185.8	259.9	296.9	362.5	493.8
117.5°	139.7	130.4	121.2	130.4	139.7	142.0	189.3	252.3	283.8	343.0	461.4
120°	146.7	138.0	129.2	138.0	146.7	148.9	192.1	249.7	278.5	332.6	440.9
122.5°	154.8	146.0	137.2	146.0	154.8	157.0	196.1	248.4	274.4	323.2	420.7
125°	165.3	157.3	149.3	157.3	165.3	167.3	201.6	247.3	270.1	311.5	394.3
127.5°	175.3	167.2	159.1	167.2	175.3	177.4	207.0	246.7	266.4	301.9	373.0
130°	181.8	173.1	164.4	173.1	181.8	184.0	211.0	247.0	265.0	296.7	360.0
132.5°	187.3	178.6	169.8	178.6	187.3	189.5	214.3	247.3	263.8	292.1	348.7
135°	193.8	185.8	177.9	185.8	193.8	195.8	217.8	247.0	261.6	285.3	332.8
137.5°	201.9	194.0	186.2	194.0	201.9	203.9	223.1	248.5	261.3	281.3	321.5
140°	207.5	200.2	193.0	200.2	207.5	209.3	226.2	248.8	260.0	277.4	312.1
142.5°	211.6	205.0	198.3	205.0	211.6	213.3	228.9	249.6	260.0	275.3	305.7
145°	218.0	212.1	206.4	212.1	218.0	219.5	232.4	249.7	258.3	270.8	295.6
147.5°	225.8	220.2	214.4	220.2	225.8	227.2	237.6	251.4	258.3	268.1	287.7
150°	230.0	224.8	219.6	224.8	230.0	231.2	240.3	252.3	258.3	266.6	283.1
152.5°	232.9	229.0	225.1	229.0	232.9	233.9	242.1	252.9	258.3	265.4	279.5
155°	239.0	236.1	233.2	236.1	239.0	239.7	245.9	254.2	258.3	263.9	275.2
157.5°	244.8	242.0	239.2	242.0	244.8	245.5	249.7	255.4	258.3	262.7	271.4
160°	247.6	245.4	243.2	245.4	247.6	248.1	251.5	256.0	258.3	262.1	269.6
162.5°	250.5	248.9	247.3	248.9	250.5	250.9	253.4	256.7	258.3	261.5	267.8
165°	254.7	253.1	251.7	253.1	254.7	255.0	256.1	257.6	258.3	260.5	265.1
167.5°	257.0	256.4	255.7	256.4	257.0	257.2	258.2	259.4	260.0	261.6	264.5
170°	259.7	259.0	258.3	259.0	259.7	259.9	259.9	260.0	260.0	261.6	264.5
172.5°	260.0	259.9	259.7	259.9	260.0	260.0	260.0	260.0	260.0	261.2	263.5
175°	261.6	261.6	261.6	261.6	261.6	261.6	261.1	260.4	260.0	260.8	262.3
177.5°	261.6	261.6	261.6	261.6	261.6	261.6	261.2	260.7	260.5	261.1	262.2
180°	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6



TEST NUMBER: P934370
 CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	869.1	866.6	870.0	860.6	870.0	866.6	869.1	875.1	870.0	873.4	876.8
5°	762.6	758.4	744.7	733.7	744.7	758.4	762.6	780.5	789.0	804.4	824.8
7.5°	681.7	678.3	674.9	668.1	674.9	678.3	681.7	686.8	695.3	708.9	724.3
10°	663.8	664.6	669.8	668.9	669.8	664.6	663.8	662.1	659.5	662.1	671.5
12.5°	709.8	717.5	745.6	743.9	745.6	717.5	709.8	675.7	652.7	648.5	650.2
15°	762.6	765.2	771.1	772.0	771.1	765.2	762.6	749.0	680.0	650.2	640.8
17.5°	767.7	768.6	772.8	772.8	772.8	768.6	767.7	761.8	738.8	698.7	645.9
20°	763.5	765.2	773.7	775.4	773.7	765.2	763.5	755.8	743.0	728.5	688.5
22.5°	761.8	765.2	772.0	771.1	772.0	765.2	761.8	749.8	738.8	728.5	712.4
25°	753.3	753.3	754.1	755.0	754.1	753.3	753.3	743.9	721.7	719.2	709.8
27.5°	735.4	737.1	742.2	741.3	742.2	737.1	735.4	732.0	708.1	705.5	698.7
30°	719.2	717.5	713.2	709.8	713.2	717.5	719.2	714.1	690.2	683.4	685.1
32.5°	691.9	687.6	683.4	680.8	683.4	687.6	691.9	690.2	672.3	662.9	664.6
35°	659.5	660.4	659.5	657.0	659.5	660.4	659.5	661.2	650.2	641.6	640.8
37.5°	636.5	638.2	637.4	634.0	637.4	638.2	636.5	634.8	619.5	616.9	618.6
40°	612.7	613.5	612.7	610.1	612.7	613.5	612.7	609.3	588.0	588.8	594.8
42.5°	589.7	588.8	586.3	584.6	586.3	588.8	589.7	584.6	557.3	554.7	565.8
45°	563.3	564.1	559.0	556.4	559.0	564.1	563.3	559.8	531.7	524.9	532.6
47.5°	536.8	536.8	532.6	530.0	532.6	536.8	536.8	532.6	502.8	495.9	500.2
50°	508.7	507.9	501.9	501.1	501.9	507.9	508.7	506.2	474.6	468.7	468.7
52.5°	476.4	476.4	477.2	478.9	477.2	476.4	476.4	477.2	449.1	443.1	441.4
55°	448.2	449.1	455.1	456.8	455.1	449.1	448.2	448.2	422.7	416.7	413.3
57.5°	419.3	419.3	423.5	423.5	423.5	419.3	419.3	417.6	392.9	387.7	386.0
60°	386.0	387.7	391.2	390.3	391.2	387.7	386.0	384.3	363.0	359.6	353.7
62.5°	351.1	352.8	353.7	352.0	353.7	352.8	351.1	346.0	333.2	330.7	323.0
65°	314.5	316.2	317.0	315.3	317.0	316.2	314.5	311.9	302.5	298.2	291.4
67.5°	276.9	276.0	275.2	278.6	275.2	276.0	276.9	273.5	267.5	264.1	254.7
70°	238.6	238.6	237.7	239.4	237.7	238.6	238.6	236.0	232.6	230.0	221.5
72.5°	197.7	196.8	200.2	197.7	200.2	196.8	197.7	196.8	195.1	192.6	184.0
75°	157.6	159.3	157.6	160.2	157.6	159.3	157.6	158.5	157.6	155.9	150.0
77.5°	120.1	121.8	120.1	120.1	120.1	121.8	120.1	121.0	121.0	121.0	115.9
80°	85.2	84.3	84.3	83.5	84.3	84.3	85.2	85.2	86.1	84.3	82.6
82.5°	54.5	53.7	53.7	55.4	53.7	53.7	54.5	55.4	53.7	53.7	53.7
85°	29.8	30.7	29.0	29.0	29.0	30.7	29.8	28.1	29.8	29.8	29.0
87.5°	11.1	10.2	10.2	10.2	10.2	10.2	11.1	11.9	11.9	11.9	12.8
90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.9	11.8	13.4	11.5
92.5°	33.4	32.0	26.8	21.4	26.8	32.0	33.4	47.3	65.9	75.1	65.9
95°	113.2	109.2	93.1	77.1	93.1	109.2	113.2	148.7	196.0	219.6	185.5
97.5°	261.5	253.8	223.2	192.6	223.2	253.8	261.5	283.9	313.8	328.7	271.8
100°	367.2	358.1	321.6	285.2	321.6	358.1	367.2	365.6	363.4	362.3	299.1
102.5°	457.4	449.6	418.4	387.2	418.4	449.6	457.4	428.9	390.8	371.7	307.7
105°	562.8	558.7	541.9	525.1	541.9	558.7	562.8	498.8	413.4	370.7	308.7
107.5°	617.6	618.6	622.6	626.7	622.6	618.6	617.6	528.3	409.2	349.7	295.0
110°	631.7	636.0	653.5	670.9	653.5	636.0	631.7	531.8	398.7	332.1	282.8



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CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	622.7	629.5	656.3	683.1	656.3	629.5	622.7	520.5	384.3	316.1	272.1
115°	592.3	601.6	638.8	676.1	638.8	601.6	592.3	493.8	362.5	296.9	259.9
117.5°	550.3	560.6	601.9	643.3	601.9	560.6	550.3	461.4	343.0	283.8	252.3
120°	522.1	532.2	572.2	612.3	572.2	532.2	522.1	440.9	332.6	278.5	249.7
122.5°	493.8	503.7	543.3	582.9	543.3	503.7	493.8	420.7	323.2	274.4	248.4
125°	456.4	465.5	501.9	538.4	501.9	465.5	456.4	394.3	311.5	270.1	247.3
127.5°	426.3	434.0	464.8	495.5	464.8	434.0	426.3	373.0	301.9	266.4	246.7
130°	407.4	414.5	443.0	471.3	443.0	414.5	407.4	360.0	296.7	265.0	247.0
132.5°	391.2	397.6	423.0	448.5	423.0	397.6	391.2	348.7	292.1	263.8	247.3
135°	368.4	373.9	395.8	417.7	395.8	373.9	368.4	332.8	285.3	261.6	247.0
137.5°	351.5	356.1	373.9	391.9	373.9	356.1	351.5	321.5	281.3	261.3	248.5
140°	338.1	342.2	359.0	375.8	359.0	342.2	338.1	312.1	277.4	260.0	248.8
142.5°	328.5	332.1	346.6	361.1	346.6	332.1	328.5	305.7	275.3	260.0	249.6
145°	314.3	317.0	328.0	338.9	328.0	317.0	314.3	295.6	270.8	258.3	249.7
147.5°	302.4	304.7	313.7	322.7	313.7	304.7	302.4	287.7	268.1	258.3	251.4
150°	295.6	297.4	304.8	312.1	304.8	297.4	295.6	283.1	266.6	258.3	252.3
152.5°	290.1	291.5	297.0	302.5	297.0	291.5	290.1	279.5	265.4	258.3	252.9
155°	283.6	284.6	288.2	291.9	288.2	284.6	283.6	275.2	263.9	258.3	254.2
157.5°	278.0	278.7	281.2	283.8	281.2	278.7	278.0	271.4	262.7	258.3	255.4
160°	275.2	275.5	277.1	278.5	277.1	275.5	275.2	269.6	262.1	258.3	256.0
162.5°	272.6	272.9	274.3	275.7	274.3	272.9	272.6	267.8	261.5	258.3	256.7
165°	268.5	268.8	270.3	271.9	270.3	268.8	268.5	265.1	260.5	258.3	257.6
167.5°	266.8	266.9	267.5	268.1	267.5	266.9	266.8	264.5	261.6	260.0	259.4
170°	266.8	266.8	266.8	266.8	266.8	266.8	266.8	264.5	261.6	260.0	260.0
172.5°	265.3	265.1	264.6	264.1	264.6	265.1	265.3	263.5	261.2	260.0	260.0
175°	263.4	263.4	263.4	263.4	263.4	263.4	263.4	262.3	260.8	260.0	260.4
177.5°	263.1	262.9	262.3	261.6	262.3	262.9	263.1	262.2	261.1	260.5	260.7
180°	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	900.6	900.6	900.6	900.6	900.6
2.5°	889.6	893.8	896.4	899.8	908.3
5°	855.5	871.7	876.8	889.6	904.9
7.5°	780.5	829.9	843.6	874.2	898.1
10°	708.1	757.5	781.4	853.8	889.6
12.5°	671.5	700.4	716.6	818.0	877.6
15°	648.5	668.9	680.8	770.3	864.0
17.5°	630.6	645.0	653.6	723.4	845.3
20°	619.5	626.3	634.0	689.4	824.0
22.5°	611.8	607.6	613.5	665.5	795.0
25°	606.7	590.5	597.3	646.8	760.9
27.5°	611.0	575.2	577.7	629.7	725.1
30°	611.8	556.4	557.3	611.8	685.1
32.5°	605.9	536.8	537.7	589.7	639.9
35°	591.4	513.8	513.0	564.1	578.6
37.5°	571.8	489.1	489.1	536.0	511.3
40°	547.9	464.4	467.0	499.4	451.6
42.5°	519.0	438.0	441.4	450.8	407.3
45°	487.4	412.5	415.0	380.9	373.3
47.5°	452.5	386.0	386.9	316.2	362.2
50°	410.7	358.8	355.4	270.9	361.3
52.5°	374.1	329.0	318.7	245.4	328.1
55°	338.3	297.3	275.2	225.8	304.2
57.5°	306.8	256.5	235.2	202.8	299.1
60°	277.8	216.4	200.2	178.1	274.3
62.5°	253.9	186.6	183.2	161.0	248.8
65°	228.3	166.1	165.3	146.5	211.3
67.5°	203.6	152.5	151.7	132.9	161.0
70°	177.2	138.0	136.3	118.4	119.3
72.5°	150.0	121.8	120.1	106.5	98.8
75°	122.7	103.1	102.2	92.9	80.1
77.5°	96.3	81.8	83.5	75.0	58.8
80°	69.0	59.6	61.3	53.7	44.3
82.5°	46.0	39.2	40.9	34.1	29.8
85°	25.6	22.2	23.0	17.9	13.6
87.5°	11.9	10.2	10.2	6.8	4.3
90°	7.8	4.9	4.6	3.2	1.8
92.5°	47.6	33.9	30.9	18.9	7.0
95°	117.2	66.0	60.6	38.7	16.9
97.5°	157.9	72.5	67.6	48.4	29.1
100°	172.7	78.0	73.6	56.1	38.6
102.5°	179.5	83.4	79.3	63.0	46.7
105°	184.5	91.5	88.0	74.2	60.4
107.5°	185.5	103.4	100.2	87.3	74.5
110°	184.1	110.1	107.2	95.5	83.9



TEST NUMBER: P934370

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	184.1	118.2	115.4	104.3	93.2
115°	185.8	130.3	127.7	117.5	107.3
117.5°	189.3	142.0	139.7	130.4	121.2
120°	192.1	148.9	146.7	138.0	129.2
122.5°	196.1	157.0	154.8	146.0	137.2
125°	201.6	167.3	165.3	157.3	149.3
127.5°	207.0	177.4	175.3	167.2	159.1
130°	211.0	184.0	181.8	173.1	164.4
132.5°	214.3	189.5	187.3	178.6	169.8
135°	217.8	195.8	193.8	185.8	177.9
137.5°	223.1	203.9	201.9	194.0	186.2
140°	226.2	209.3	207.5	200.2	193.0
142.5°	228.9	213.3	211.6	205.0	198.3
145°	232.4	219.5	218.0	212.1	206.4
147.5°	237.6	227.2	225.8	220.2	214.4
150°	240.3	231.2	230.0	224.8	219.6
152.5°	242.1	233.9	232.9	229.0	225.1
155°	245.9	239.7	239.0	236.1	233.2
157.5°	249.7	245.5	244.8	242.0	239.2
160°	251.5	248.1	247.6	245.4	243.2
162.5°	253.4	250.9	250.5	248.9	247.3
165°	256.1	255.0	254.7	253.1	251.7
167.5°	258.2	257.2	257.0	256.4	255.7
170°	259.9	259.9	259.7	259.0	258.3
172.5°	260.0	260.0	260.0	259.9	259.7
175°	261.1	261.6	261.6	261.6	261.6
177.5°	261.2	261.6	261.6	261.6	261.6
180°	261.6	261.6	261.6	261.6	261.6



TEST NUMBER: P934370
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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	12.87	13.81	13.76	14.72	15.87	15.67	16.61	16.56	17.51	18.67
	3H	13.36	14.20	14.25	15.11	16.29	17.01	17.85	17.91	18.77	19.95
	4H	13.55	14.35	14.46	15.27	16.45	17.45	18.25	18.37	19.17	20.36
	6H	13.67	14.41	14.60	15.33	16.53	17.73	18.47	18.66	19.39	20.59
	8H	13.68	14.37	14.61	15.32	16.52	17.81	18.50	18.74	19.45	20.65
	12H	13.65	14.31	14.59	15.25	16.48	17.84	18.51	18.78	19.44	20.67
4H	2H	13.91	14.70	14.83	15.62	16.81	16.09	16.88	17.01	17.81	18.99
	3H	14.94	15.60	15.87	16.55	17.76	17.59	18.26	18.52	19.21	20.41
	4H	15.22	15.82	16.16	16.77	18.00	18.12	18.72	19.06	19.67	20.90
	6H	15.35	15.87	16.30	16.84	18.07	18.48	19.00	19.43	19.97	21.20
	8H	15.36	15.84	16.31	16.81	18.05	18.58	19.07	19.54	20.03	21.28
	12H	15.33	15.77	16.30	16.75	18.00	18.64	19.08	19.61	20.06	21.31
8H	4H	15.67	16.16	16.63	17.13	18.37	18.25	18.74	19.20	19.70	20.94
	6H	15.94	16.34	16.92	17.35	18.59	18.68	19.08	19.66	20.09	21.33
	8H	15.98	16.34	16.97	17.33	18.59	18.83	19.18	19.82	20.18	21.44
	12H	15.97	16.28	16.96	17.27	18.58	18.92	19.24	19.92	20.23	21.53
12H	4H	15.68	16.12	16.66	17.10	18.35	18.22	18.66	19.19	19.64	20.89
	6H	16.00	16.35	16.99	17.35	18.61	18.68	19.03	19.67	20.03	21.29
	8H	16.07	16.38	17.06	17.37	18.68	18.84	19.15	19.83	20.14	21.45