

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: P934274

Luminaire Tested: SQ4-FA-050U-050D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934274
REPORT IS A COMBINATION OF REPORTS P933690 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

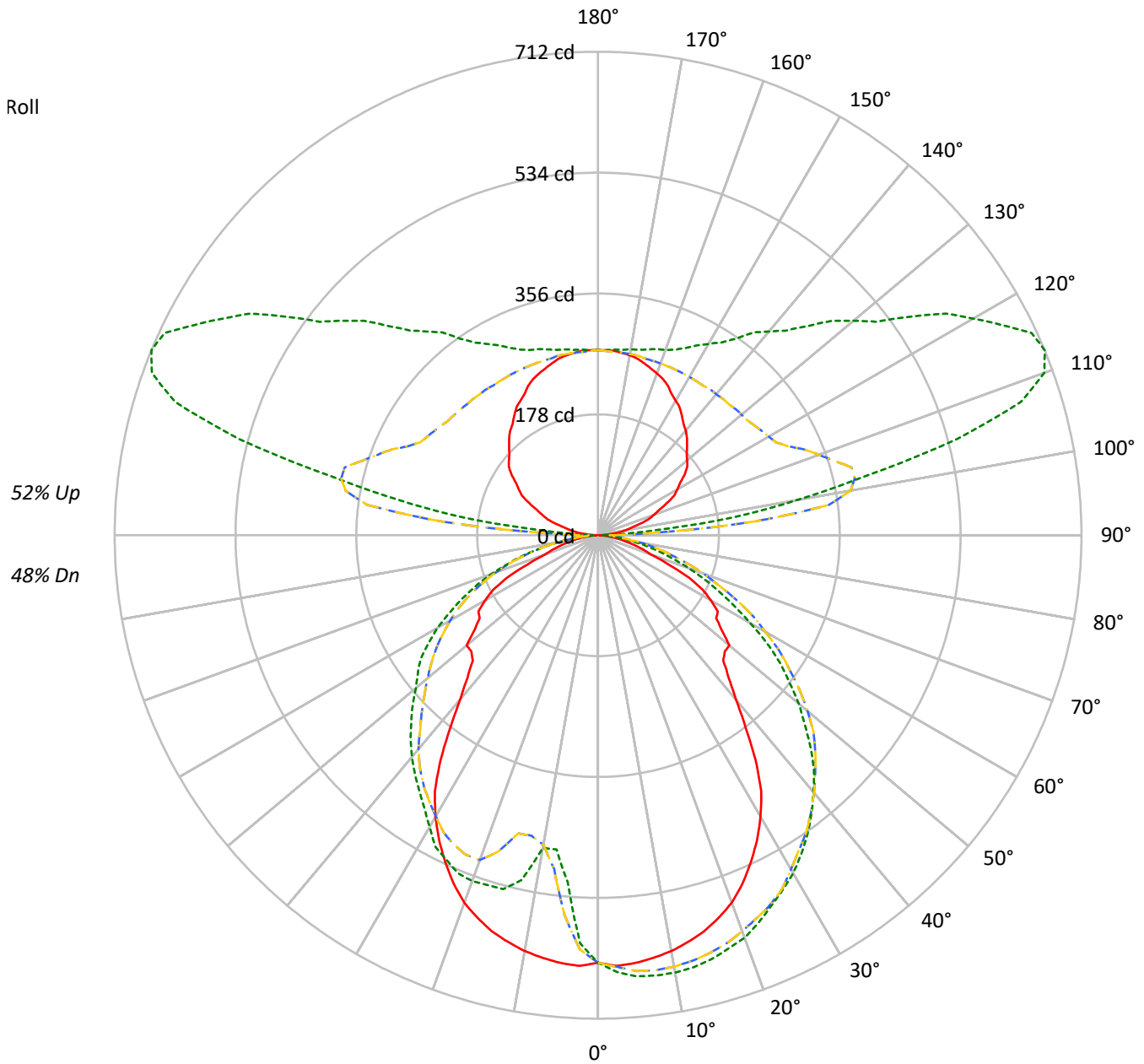
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3401.0 lumens
Efficiency: N/A
Efficacy: 119.8 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): 28.4
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				
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°	5841	5841	5841	5841
5°	5878	5896	5878	4636
10°	5833	5808	5833	4152
15°	5762	5683	5762	4744
20°	5636	5534	5636	4754
25°	5382	5316	5382	4654
30°	5057	5135	5057	4433
35°	4502	4907	4502	4190
40°	3744	4638	3744	4006
45°	3339	4324	3339	3795
50°	3540	3948	3540	3582
55°	3321	3545	3321	3460
60°	3412	3009	3412	3170
65°	3078	2488	3078	2781
70°	2117	1982	2117	2332
75°	1833	1466	1833	1756
80°	1451	969	1451	1054
85°	787	513	787	435

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5128 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.7
10°-20°	161.3	4.7
20°-30°	249.4	7.3
30°-40°	297.7	8.8
40°-50°	299.5	8.8
50°-60°	260.6	7.7
60°-70°	184.7	5.4
70°-80°	97.7	2.9
80°-90°	25.4	0.7
90°-100°	132.9	3.9
100°-110°	349.5	10.3
110°-120°	362.4	10.7
120°-130°	290.7	8.5
130°-140°	228.1	6.7
140°-150°	175.1	5.1
150°-160°	126.1	3.7
160°-170°	77.1	2.3
170°-180°	26.1	0.8
0°-30°	467.5	13.7
0°-40°	765.3	22.5
0°-60°	1325.3	39.0
0°-90°	1633.2	48.0
90°-120°	844.8	24.8
90°-150°	1538.5	45.2
90°-180°	1768.0	52.0
0°-180°	3401.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	630	630	630	630	630	
5°	632	652	632	513	632	60
15°	604	646	604	540	604	170
25°	532	603	532	528	532	244
35°	404	538	404	459	404	250
45°	261	443	261	389	261	209
55°	213	327	213	319	213	195
65°	148	197	148	220	148	141
75°	56	94	56	112	56	59
85°	10	24	10	20	10	13
90°	2	7	2	7	2	2
95°	18	80	18	80	18	20
105°	63	547	63	547	63	67
115°	112	705	112	705	112	110
125°	156	561	156	561	156	138
135°	185	435	185	435	185	143
145°	215	353	215	353	215	135
155°	243	304	243	304	243	112
165°	262	283	262	283	262	74
175°	273	275	273	275	273	26
180°	273	273	273	273	273	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	634.8	634.8	638.4	639.6	639.6	637.9	636.1	637.9	643.2	645.0	644.3
5°	632.4	637.2	643.8	645.0	646.2	645.6	644.3	645.6	651.5	652.7	653.3
7.5°	627.7	636.6	645.0	646.7	648.5	646.7	646.2	647.4	653.3	654.5	654.5
10°	621.8	634.2	643.8	645.0	646.7	645.0	645.0	647.4	653.3	654.5	655.1
12.5°	613.4	630.7	639.6	640.8	643.2	642.6	642.0	644.3	650.4	651.5	651.5
15°	603.8	624.1	632.4	633.7	637.9	636.6	636.6	639.0	645.6	647.4	646.7
17.5°	590.8	615.8	625.3	627.1	630.1	629.5	630.1	632.4	638.4	639.6	640.2
20°	575.9	604.5	615.8	617.6	620.5	620.5	620.5	623.6	629.5	631.9	631.9
22.5°	555.6	592.6	604.5	605.7	609.3	609.3	610.4	614.6	619.9	620.5	620.5
25°	531.8	579.4	589.5	593.2	596.7	598.5	600.3	602.7	604.5	603.8	604.5
27.5°	506.8	562.8	575.9	578.3	583.1	584.8	587.2	587.8	588.4	590.2	589.0
30°	478.8	539.5	559.2	561.6	569.3	570.5	568.1	569.3	572.3	573.5	574.7
32.5°	447.3	505.0	541.9	547.3	554.5	550.9	550.3	552.1	556.9	556.9	558.0
35°	404.4	478.2	525.9	530.7	536.0	531.8	534.2	534.8	537.8	539.5	538.9
37.5°	357.3	455.0	509.2	512.7	516.9	511.6	515.1	516.9	519.3	518.1	518.1
40°	315.6	418.7	489.6	492.0	495.5	491.3	494.9	496.1	497.3	496.1	495.5
42.5°	284.7	378.7	468.7	471.7	469.3	472.2	473.5	475.9	474.0	471.7	471.7
45°	260.8	368.1	446.0	449.6	446.0	450.8	452.6	452.6	447.3	446.0	445.4
47.5°	253.1	346.6	423.4	423.4	421.6	427.6	430.6	426.4	421.1	419.2	419.2
50°	252.5	322.8	392.5	390.1	398.4	405.5	402.6	398.4	394.3	387.7	387.7
52.5°	229.3	293.6	352.5	361.5	374.6	378.7	374.0	369.9	362.7	359.7	357.3
55°	212.6	263.2	316.2	334.1	347.8	353.2	344.2	340.0	329.4	327.6	326.3
57.5°	209.0	219.2	282.9	305.5	322.2	321.6	316.2	308.5	299.5	297.7	297.2
60°	191.8	158.4	247.1	273.9	291.2	289.4	284.7	277.5	269.2	268.0	266.8
62.5°	173.9	114.9	206.6	237.0	261.4	260.8	256.7	246.0	240.0	237.0	234.6
65°	147.7	96.4	147.1	197.1	232.3	233.5	224.5	216.8	210.2	206.6	206.0
67.5°	112.6	78.6	99.5	164.4	204.2	203.1	191.8	188.2	179.8	178.0	174.5
70°	83.4	52.4	69.1	133.4	176.9	173.9	165.0	160.8	153.1	148.9	146.5
72.5°	69.1	42.3	50.6	103.6	148.9	145.3	137.6	132.8	126.3	122.7	120.3
75°	55.9	44.7	38.7	76.8	120.9	118.5	111.4	106.6	101.2	96.4	97.1
77.5°	41.1	41.6	31.0	56.6	95.9	92.4	88.2	82.2	79.8	75.0	75.0
80°	31.0	32.8	23.3	38.7	69.1	69.1	65.5	61.4	57.2	54.8	54.8
82.5°	20.9	20.9	17.2	24.4	47.1	45.3	42.9	41.6	39.3	38.1	38.1
85°	9.5	11.9	10.7	14.9	25.6	26.8	26.8	25.6	25.0	23.8	24.4
87.5°	3.0	5.3	6.6	8.3	13.1	13.7	14.3	14.3	14.3	14.9	14.9
90°	1.9	3.3	4.8	5.2	8.1	12.0	13.9	12.3	9.2	6.9	6.9
92.5°	7.3	19.7	32.2	35.3	49.6	68.7	78.3	68.6	49.3	34.8	33.4
95°	17.6	40.3	63.1	68.8	122.2	193.3	228.9	204.2	155.0	118.0	113.8
97.5°	30.4	50.4	70.5	75.6	164.5	283.3	342.6	327.1	295.9	272.5	264.5
100°	40.2	58.4	76.7	81.3	180.0	311.7	377.6	378.7	381.0	382.7	373.2
102.5°	48.7	65.7	82.7	86.9	187.1	320.7	387.4	407.3	447.0	476.8	468.6
105°	63.0	77.3	91.7	95.4	192.3	321.7	386.4	430.9	519.8	586.6	582.3
107.5°	77.6	91.0	104.4	107.8	193.3	307.4	364.4	426.5	550.6	643.7	644.8
110°	87.5	99.5	111.7	114.7	191.9	294.7	346.1	415.5	554.3	658.4	662.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	97.1	108.7	120.2	123.2	191.9	283.6	329.4	400.5	542.5	649.0	656.1
115°	111.8	122.5	133.1	135.8	193.7	270.8	309.5	377.8	514.7	617.3	627.0
117.5°	126.3	136.0	145.6	148.0	197.3	262.9	295.8	357.5	480.9	573.6	584.3
120°	134.7	143.9	152.9	155.2	200.2	260.3	290.3	346.7	459.5	544.2	554.6
122.5°	143.0	152.2	161.3	163.7	204.4	258.9	286.0	336.8	438.5	514.7	525.0
125°	155.6	163.9	172.3	174.4	210.1	257.7	281.5	324.7	411.0	475.7	485.2
127.5°	165.8	174.3	182.8	184.9	215.8	257.1	277.7	314.7	388.8	444.4	452.3
130°	171.3	180.4	189.5	191.8	220.0	257.4	276.2	309.2	375.2	424.6	432.0
132.5°	177.0	186.1	195.2	197.5	223.3	257.7	274.9	304.4	363.5	407.8	414.4
135°	185.4	193.7	202.0	204.1	227.0	257.4	272.7	297.4	346.9	384.0	389.7
137.5°	194.0	202.2	210.5	212.5	232.5	259.0	272.3	293.2	335.0	366.4	371.1
140°	201.1	208.7	216.3	218.2	235.8	259.3	271.0	289.1	325.3	352.4	356.7
142.5°	206.6	213.7	220.6	222.4	238.6	260.2	271.0	286.9	318.6	342.4	346.1
145°	215.1	221.1	227.2	228.7	242.2	260.3	269.2	282.2	308.1	327.6	330.4
147.5°	223.5	229.5	235.3	236.8	247.7	262.0	269.2	279.5	299.9	315.2	317.5
150°	228.9	234.3	239.7	241.0	250.4	262.9	269.2	277.9	295.1	308.0	310.0
152.5°	234.6	238.7	242.8	243.8	252.3	263.6	269.2	276.6	291.4	302.4	303.8
155°	243.0	246.1	249.1	249.8	256.3	264.9	269.2	275.1	286.8	295.6	296.6
157.5°	249.3	252.2	255.1	255.8	260.3	266.2	269.2	273.8	282.9	289.8	290.5
160°	253.5	255.7	258.1	258.6	262.1	266.8	269.2	273.1	281.0	286.8	287.2
162.5°	257.7	259.4	261.1	261.5	264.1	267.6	269.2	272.5	279.1	284.1	284.4
165°	262.3	263.8	265.4	265.8	266.9	268.4	269.2	271.6	276.3	279.8	280.2
167.5°	266.5	267.2	267.9	268.1	269.1	270.4	271.0	272.6	275.7	278.0	278.2
170°	269.2	270.0	270.7	270.8	270.9	271.0	271.0	272.6	275.7	278.0	278.0
172.5°	270.7	270.8	271.0	271.0	271.0	271.0	271.0	272.3	274.7	276.5	276.3
175°	272.7	272.7	272.7	272.7	272.2	271.4	271.0	271.8	273.4	274.6	274.6
177.5°	272.7	272.7	272.7	272.7	272.3	271.7	271.5	272.1	273.3	274.2	274.0
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	645.6	643.8	645.6	644.3	645.0	643.2	637.9	636.1	637.9	639.6	639.6
5°	653.3	652.1	653.3	653.3	652.7	651.5	645.6	644.3	645.6	646.2	645.0
7.5°	655.7	653.9	655.7	654.5	654.5	653.3	647.4	646.2	646.7	648.5	646.7
10°	655.7	653.9	655.7	655.1	654.5	653.3	647.4	645.0	645.0	646.7	645.0
12.5°	652.7	651.5	652.7	651.5	651.5	650.4	644.3	642.0	642.6	643.2	640.8
15°	648.0	646.2	648.0	646.7	647.4	645.6	639.0	636.6	636.6	637.9	633.7
17.5°	640.8	638.4	640.8	640.2	639.6	638.4	632.4	630.1	629.5	630.1	627.1
20°	632.4	630.7	632.4	631.9	631.9	629.5	623.6	620.5	620.5	620.5	617.6
22.5°	619.4	617.6	619.4	620.5	620.5	619.9	614.6	610.4	609.3	609.3	605.7
25°	604.5	602.7	604.5	604.5	603.8	604.5	602.7	600.3	598.5	596.7	593.2
27.5°	590.2	589.0	590.2	589.0	590.2	588.4	587.8	587.2	584.8	583.1	578.3
30°	575.9	574.7	575.9	574.7	573.5	572.3	569.3	568.1	570.5	569.3	561.6
32.5°	558.0	556.9	558.0	558.0	556.9	556.9	552.1	550.3	550.9	554.5	547.3
35°	539.5	537.8	539.5	538.9	539.5	537.8	534.8	534.2	531.8	536.0	530.7
37.5°	518.1	516.4	518.1	518.1	518.1	519.3	516.9	515.1	511.6	516.9	512.7
40°	496.1	493.7	496.1	495.5	496.1	497.3	496.1	494.9	491.3	495.5	492.0
42.5°	471.1	470.5	471.1	471.7	471.7	474.0	475.9	473.5	472.2	469.3	471.7
45°	444.3	443.1	444.3	445.4	446.0	447.3	452.6	452.6	450.8	446.0	449.6
47.5°	415.7	412.7	415.7	419.2	419.2	421.1	426.4	430.6	427.6	421.6	423.4
50°	385.3	385.9	385.3	387.7	387.7	394.3	398.4	402.6	405.5	398.4	390.1
52.5°	355.6	354.9	355.6	357.3	359.7	362.7	369.9	374.0	378.7	374.6	361.5
55°	325.7	327.0	325.7	326.3	327.6	329.4	340.0	344.2	353.2	347.8	334.1
57.5°	296.0	294.2	296.0	297.2	297.7	299.5	308.5	316.2	321.6	322.2	305.5
60°	261.4	259.0	261.4	266.8	268.0	269.2	277.5	284.7	289.4	291.2	273.9
62.5°	231.1	226.9	231.1	234.6	237.0	240.0	246.0	256.7	260.8	261.4	237.0
65°	198.9	197.1	198.9	206.0	206.6	210.2	216.8	224.5	233.5	232.3	197.1
67.5°	169.7	169.7	169.7	174.5	178.0	179.8	188.2	191.8	203.1	204.2	164.4
70°	143.0	142.3	143.0	146.5	148.9	153.1	160.8	165.0	173.9	176.9	133.4
72.5°	117.3	116.7	117.3	120.3	122.7	126.3	132.8	137.6	145.3	148.9	103.6
75°	94.7	93.5	94.7	97.1	96.4	101.2	106.6	111.4	118.5	120.9	76.8
77.5°	72.6	72.6	72.6	75.0	75.0	79.8	82.2	88.2	92.4	95.9	56.6
80°	54.2	53.6	54.2	54.8	54.8	57.2	61.4	65.5	69.1	69.1	38.7
82.5°	38.1	36.9	38.1	38.1	38.1	39.3	41.6	42.9	45.3	47.1	24.4
85°	23.8	23.8	23.8	24.4	23.8	25.0	25.6	26.8	26.8	25.6	14.9
87.5°	15.5	14.9	15.5	14.9	14.9	14.3	14.3	14.3	13.7	13.1	8.3
90°	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.9	12.0	8.1	5.2
92.5°	27.9	22.3	27.9	33.4	34.8	49.3	68.6	78.3	68.7	49.6	35.3
95°	97.1	80.4	97.1	113.8	118.0	155.0	204.2	228.9	193.3	122.2	68.8
97.5°	232.7	200.8	232.7	264.5	272.5	295.9	327.1	342.6	283.3	164.5	75.6
100°	335.2	297.2	335.2	373.2	382.7	381.0	378.7	377.6	311.7	180.0	81.3
102.5°	436.1	403.6	436.1	468.6	476.8	447.0	407.3	387.4	320.7	187.1	86.9
105°	564.8	547.3	564.8	582.3	586.6	519.8	430.9	386.4	321.7	192.3	95.4
107.5°	649.0	653.2	649.0	644.8	643.7	550.6	426.5	364.4	307.4	193.3	107.8
110°	681.1	699.3	681.1	662.9	658.4	554.3	415.5	346.1	294.7	191.9	114.7



TEST NUMBER: P934274

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	684.0	712.0	684.0	656.1	649.0	542.5	400.5	329.4	283.6	191.9	123.2
115°	665.8	704.6	665.8	627.0	617.3	514.7	377.8	309.5	270.8	193.7	135.8
117.5°	627.4	670.4	627.4	584.3	573.6	480.9	357.5	295.8	262.9	197.3	148.0
120°	596.4	638.2	596.4	554.6	544.2	459.5	346.7	290.3	260.3	200.2	155.2
122.5°	566.3	607.5	566.3	525.0	514.7	438.5	336.8	286.0	258.9	204.4	163.7
125°	523.1	561.1	523.1	485.2	475.7	411.0	324.7	281.5	257.7	210.1	174.4
127.5°	484.4	516.5	484.4	452.3	444.4	388.8	314.7	277.7	257.1	215.8	184.9
130°	461.7	491.2	461.7	432.0	424.6	375.2	309.2	276.2	257.4	220.0	191.8
132.5°	440.9	467.4	440.9	414.4	407.8	363.5	304.4	274.9	257.7	223.3	197.5
135°	412.6	435.4	412.6	389.7	384.0	346.9	297.4	272.7	257.4	227.0	204.1
137.5°	389.7	408.5	389.7	371.1	366.4	335.0	293.2	272.3	259.0	232.5	212.5
140°	374.2	391.7	374.2	356.7	352.4	325.3	289.1	271.0	259.3	235.8	218.2
142.5°	361.2	376.3	361.2	346.1	342.4	318.6	286.9	271.0	260.2	238.6	222.4
145°	341.9	353.2	341.9	330.4	327.6	308.1	282.2	269.2	260.3	242.2	228.7
147.5°	327.0	336.4	327.0	317.5	315.2	299.9	279.5	269.2	262.0	247.7	236.8
150°	317.6	325.3	317.6	310.0	308.0	295.1	277.9	269.2	262.9	250.4	241.0
152.5°	309.6	315.3	309.6	303.8	302.4	291.4	276.6	269.2	263.6	252.3	243.8
155°	300.4	304.2	300.4	296.6	295.6	286.8	275.1	269.2	264.9	256.3	249.8
157.5°	293.1	295.8	293.1	290.5	289.8	282.9	273.8	269.2	266.2	260.3	255.8
160°	288.8	290.3	288.8	287.2	286.8	281.0	273.1	269.2	266.8	262.1	258.6
162.5°	285.9	287.4	285.9	284.4	284.1	279.1	272.5	269.2	267.6	264.1	261.5
165°	281.8	283.4	281.8	280.2	279.8	276.3	271.6	269.2	268.4	266.9	265.8
167.5°	278.8	279.5	278.8	278.2	278.0	275.7	272.6	271.0	270.4	269.1	268.1
170°	278.0	278.0	278.0	278.0	278.0	275.7	272.6	271.0	271.0	270.9	270.8
172.5°	275.8	275.3	275.8	276.3	276.5	274.7	272.3	271.0	271.0	271.0	271.0
175°	274.6	274.6	274.6	274.6	274.6	273.4	271.8	271.0	271.4	272.2	272.7
177.5°	273.4	272.7	273.4	274.0	274.2	273.3	272.1	271.5	271.7	272.3	272.7
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



TEST NUMBER: P934274

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	638.4	634.8	634.8	628.9	626.5	624.7	621.8	612.8	610.4	608.0	611.7
5°	643.8	637.2	632.4	621.8	612.8	609.3	597.9	576.5	562.2	551.4	545.5
7.5°	645.0	636.6	627.7	611.0	589.5	580.0	545.5	506.2	495.5	486.0	480.0
10°	643.8	634.2	621.8	596.7	546.1	529.4	494.9	469.3	462.7	461.0	462.7
12.5°	639.6	630.7	613.4	571.7	500.8	489.6	469.3	454.4	453.2	456.2	472.2
15°	632.4	624.1	603.8	538.4	475.9	467.5	453.2	447.8	454.4	475.3	523.5
17.5°	625.3	615.8	590.8	505.6	456.8	450.8	440.7	451.5	488.3	516.4	532.4
20°	615.8	604.5	575.9	481.8	443.1	437.7	433.0	481.2	509.2	519.3	528.3
22.5°	604.5	592.6	555.6	465.1	428.8	424.6	427.6	497.9	509.2	516.4	524.1
25°	589.5	579.4	531.8	452.0	417.4	412.7	424.0	496.1	502.6	504.4	519.9
27.5°	575.9	562.8	506.8	440.1	403.8	402.0	427.0	488.3	493.1	494.9	511.6
30°	559.2	539.5	478.8	427.6	389.5	388.9	427.6	478.8	477.7	482.4	499.1
32.5°	541.9	505.0	447.3	412.1	375.8	375.2	423.4	464.5	463.4	469.8	482.4
35°	525.9	478.2	404.4	394.3	358.5	359.1	413.3	447.8	448.4	454.4	462.1
37.5°	509.2	455.0	357.3	374.6	341.9	341.9	399.6	432.4	431.2	433.0	443.6
40°	489.6	418.7	315.6	349.0	326.3	324.6	382.9	415.7	411.5	411.0	425.8
42.5°	468.7	378.7	284.7	315.1	308.5	306.1	362.7	395.4	387.7	389.5	408.6
45°	446.0	368.1	260.8	266.2	290.0	288.2	340.6	372.2	366.8	371.6	391.3
47.5°	423.4	346.6	253.1	220.9	270.4	269.8	316.2	349.6	346.6	351.4	372.2
50°	392.5	322.8	252.5	189.4	248.4	250.7	287.1	327.6	327.6	331.8	353.8
52.5°	352.5	293.6	229.3	171.5	222.7	229.9	261.4	308.5	309.6	313.8	333.5
55°	316.2	263.2	212.6	157.8	192.3	207.9	236.4	288.9	291.2	295.3	313.3
57.5°	282.9	219.2	209.0	141.7	164.4	179.3	214.4	269.8	270.9	274.6	291.8
60°	247.1	158.4	191.8	124.5	139.9	151.2	194.1	247.1	251.3	253.7	268.6
62.5°	206.6	114.9	173.9	112.6	128.0	130.4	177.5	225.7	231.1	232.8	241.8
65°	147.1	96.4	147.7	102.5	115.5	116.2	159.6	203.7	208.4	211.4	218.0
67.5°	99.5	78.6	112.6	92.9	106.0	106.6	142.3	178.0	184.6	187.0	191.2
70°	69.1	52.4	83.4	82.8	95.3	96.4	123.9	154.9	160.8	162.6	165.0
72.5°	50.6	42.3	69.1	74.4	84.0	85.2	104.8	128.7	134.6	136.4	137.6
75°	38.7	44.7	55.9	64.9	71.5	72.0	85.8	104.8	109.0	110.2	110.7
77.5°	31.0	41.6	41.1	52.4	58.3	57.2	67.3	81.0	84.5	84.5	84.5
80°	23.3	32.8	31.0	37.6	42.9	41.6	48.2	57.8	59.0	60.1	59.6
82.5°	17.2	20.9	20.9	23.8	28.6	27.4	32.1	37.6	37.6	37.6	38.7
85°	10.7	11.9	9.5	12.5	16.1	15.5	17.8	20.2	20.9	20.9	19.6
87.5°	6.6	5.3	3.0	4.8	7.1	7.1	8.3	9.0	8.3	8.3	8.3
90°	4.8	3.3	1.9	3.3	4.8	5.2	8.1	12.0	13.9	12.3	9.2
92.5°	32.2	19.7	7.3	19.7	32.2	35.3	49.6	68.7	78.3	68.6	49.3
95°	63.1	40.3	17.6	40.3	63.1	68.8	122.2	193.3	228.9	204.2	155.0
97.5°	70.5	50.4	30.4	50.4	70.5	75.6	164.5	283.3	342.6	327.1	295.9
100°	76.7	58.4	40.2	58.4	76.7	81.3	180.0	311.7	377.6	378.7	381.0
102.5°	82.7	65.7	48.7	65.7	82.7	86.9	187.1	320.7	387.4	407.3	447.0
105°	91.7	77.3	63.0	77.3	91.7	95.4	192.3	321.7	386.4	430.9	519.8
107.5°	104.4	91.0	77.6	91.0	104.4	107.8	193.3	307.4	364.4	426.5	550.6
110°	111.7	99.5	87.5	99.5	111.7	114.7	191.9	294.7	346.1	415.5	554.3



TEST NUMBER: P934274

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	120.2	108.7	97.1	108.7	120.2	123.2	191.9	283.6	329.4	400.5	542.5
115°	133.1	122.5	111.8	122.5	133.1	135.8	193.7	270.8	309.5	377.8	514.7
117.5°	145.6	136.0	126.3	136.0	145.6	148.0	197.3	262.9	295.8	357.5	480.9
120°	152.9	143.9	134.7	143.9	152.9	155.2	200.2	260.3	290.3	346.7	459.5
122.5°	161.3	152.2	143.0	152.2	161.3	163.7	204.4	258.9	286.0	336.8	438.5
125°	172.3	163.9	155.6	163.9	172.3	174.4	210.1	257.7	281.5	324.7	411.0
127.5°	182.8	174.3	165.8	174.3	182.8	184.9	215.8	257.1	277.7	314.7	388.8
130°	189.5	180.4	171.3	180.4	189.5	191.8	220.0	257.4	276.2	309.2	375.2
132.5°	195.2	186.1	177.0	186.1	195.2	197.5	223.3	257.7	274.9	304.4	363.5
135°	202.0	193.7	185.4	193.7	202.0	204.1	227.0	257.4	272.7	297.4	346.9
137.5°	210.5	202.2	194.0	202.2	210.5	212.5	232.5	259.0	272.3	293.2	335.0
140°	216.3	208.7	201.1	208.7	216.3	218.2	235.8	259.3	271.0	289.1	325.3
142.5°	220.6	213.7	206.6	213.7	220.6	222.4	238.6	260.2	271.0	286.9	318.6
145°	227.2	221.1	215.1	221.1	227.2	228.7	242.2	260.3	269.2	282.2	308.1
147.5°	235.3	229.5	223.5	229.5	235.3	236.8	247.7	262.0	269.2	279.5	299.9
150°	239.7	234.3	228.9	234.3	239.7	241.0	250.4	262.9	269.2	277.9	295.1
152.5°	242.8	238.7	234.6	238.7	242.8	243.8	252.3	263.6	269.2	276.6	291.4
155°	249.1	246.1	243.0	246.1	249.1	249.8	256.3	264.9	269.2	275.1	286.8
157.5°	255.1	252.2	249.3	252.2	255.1	255.8	260.3	266.2	269.2	273.8	282.9
160°	258.1	255.7	253.5	255.7	258.1	258.6	262.1	266.8	269.2	273.1	281.0
162.5°	261.1	259.4	257.7	259.4	261.1	261.5	264.1	267.6	269.2	272.5	279.1
165°	265.4	263.8	262.3	263.8	265.4	265.8	266.9	268.4	269.2	271.6	276.3
167.5°	267.9	267.2	266.5	267.2	267.9	268.1	269.1	270.4	271.0	272.6	275.7
170°	270.7	270.0	269.2	270.0	270.7	270.8	270.9	271.0	271.0	272.6	275.7
172.5°	271.0	270.8	270.7	270.8	271.0	271.0	271.0	271.0	271.0	272.3	274.7
175°	272.7	272.7	272.7	272.7	272.7	272.7	272.2	271.4	271.0	271.8	273.4
177.5°	272.7	272.7	272.7	272.7	272.7	272.7	272.3	271.7	271.5	272.1	273.3
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



TEST NUMBER: P934274

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	607.5	605.7	608.0	601.5	608.0	605.7	607.5	611.7	608.0	610.4	612.8
5°	533.0	530.0	520.5	512.7	520.5	530.0	533.0	545.5	551.4	562.2	576.5
7.5°	476.4	474.0	471.7	466.9	471.7	474.0	476.4	480.0	486.0	495.5	506.2
10°	463.9	464.5	468.1	467.5	468.1	464.5	463.9	462.7	461.0	462.7	469.3
12.5°	496.1	501.5	521.1	519.9	521.1	501.5	496.1	472.2	456.2	453.2	454.4
15°	533.0	534.8	538.9	539.5	538.9	534.8	533.0	523.5	475.3	454.4	447.8
17.5°	536.6	537.2	540.2	540.2	540.2	537.2	536.6	532.4	516.4	488.3	451.5
20°	533.6	534.8	540.8	541.9	540.8	534.8	533.6	528.3	519.3	509.2	481.2
22.5°	532.4	534.8	539.5	538.9	539.5	534.8	532.4	524.1	516.4	509.2	497.9
25°	526.5	526.5	527.0	527.6	527.0	526.5	526.5	519.9	504.4	502.6	496.1
27.5°	514.0	515.1	518.7	518.1	518.7	515.1	514.0	511.6	494.9	493.1	488.3
30°	502.6	501.5	498.4	496.1	498.4	501.5	502.6	499.1	482.4	477.7	478.8
32.5°	483.6	480.6	477.7	475.9	477.7	480.6	483.6	482.4	469.8	463.4	464.5
35°	461.0	461.6	461.0	459.2	461.0	461.6	461.0	462.1	454.4	448.4	447.8
37.5°	444.9	446.0	445.4	443.1	445.4	446.0	444.9	443.6	433.0	431.2	432.4
40°	428.2	428.8	428.2	426.4	428.2	428.8	428.2	425.8	411.0	411.5	415.7
42.5°	412.1	411.5	409.7	408.6	409.7	411.5	412.1	408.6	389.5	387.7	395.4
45°	393.7	394.3	390.6	388.9	390.6	394.3	393.7	391.3	371.6	366.8	372.2
47.5°	375.2	375.2	372.2	370.4	372.2	375.2	375.2	372.2	351.4	346.6	349.6
50°	355.6	354.9	350.8	350.1	350.8	354.9	355.6	353.8	331.8	327.6	327.6
52.5°	332.9	332.9	333.5	334.7	333.5	332.9	332.9	333.5	313.8	309.6	308.5
55°	313.3	313.8	318.0	319.2	318.0	313.8	313.3	313.3	295.3	291.2	288.9
57.5°	293.0	293.0	296.0	296.0	296.0	293.0	293.0	291.8	274.6	270.9	269.8
60°	269.8	270.9	273.3	272.8	273.3	270.9	269.8	268.6	253.7	251.3	247.1
62.5°	245.4	246.6	247.1	246.0	247.1	246.6	245.4	241.8	232.8	231.1	225.7
65°	219.8	220.9	221.6	220.3	221.6	220.9	219.8	218.0	211.4	208.4	203.7
67.5°	193.6	193.0	192.3	194.7	192.3	193.0	193.6	191.2	187.0	184.6	178.0
70°	166.8	166.8	166.1	167.4	166.1	166.8	166.8	165.0	162.6	160.8	154.9
72.5°	138.2	137.6	139.9	138.2	139.9	137.6	138.2	137.6	136.4	134.6	128.7
75°	110.2	111.4	110.2	112.0	110.2	111.4	110.2	110.7	110.2	109.0	104.8
77.5°	84.0	85.2	84.0	84.0	84.0	85.2	84.0	84.5	84.5	84.5	81.0
80°	59.6	59.0	59.0	58.3	59.0	59.0	59.6	59.6	60.1	59.0	57.8
82.5°	38.1	37.6	37.6	38.7	37.6	37.6	38.1	38.7	37.6	37.6	37.6
85°	20.9	21.4	20.2	20.2	20.2	21.4	20.9	19.6	20.9	20.9	20.2
87.5°	7.7	7.1	7.1	7.1	7.1	7.1	7.7	8.3	8.3	8.3	9.0
90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.2	12.3	13.9	12.0
92.5°	34.8	33.4	27.9	22.3	27.9	33.4	34.8	49.3	68.6	78.3	68.7
95°	118.0	113.8	97.1	80.4	97.1	113.8	118.0	155.0	204.2	228.9	193.3
97.5°	272.5	264.5	232.7	200.8	232.7	264.5	272.5	295.9	327.1	342.6	283.3
100°	382.7	373.2	335.2	297.2	335.2	373.2	382.7	381.0	378.7	377.6	311.7
102.5°	476.8	468.6	436.1	403.6	436.1	468.6	476.8	447.0	407.3	387.4	320.7
105°	586.6	582.3	564.8	547.3	564.8	582.3	586.6	519.8	430.9	386.4	321.7
107.5°	643.7	644.8	649.0	653.2	649.0	644.8	643.7	550.6	426.5	364.4	307.4
110°	658.4	662.9	681.1	699.3	681.1	662.9	658.4	554.3	415.5	346.1	294.7



TEST NUMBER: P934274

CATALOG NUMBER: SQ4-FA-050U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	649.0	656.1	684.0	712.0	684.0	656.1	649.0	542.5	400.5	329.4	283.6
115°	617.3	627.0	665.8	704.6	665.8	627.0	617.3	514.7	377.8	309.5	270.8
117.5°	573.6	584.3	627.4	670.4	627.4	584.3	573.6	480.9	357.5	295.8	262.9
120°	544.2	554.6	596.4	638.2	596.4	554.6	544.2	459.5	346.7	290.3	260.3
122.5°	514.7	525.0	566.3	607.5	566.3	525.0	514.7	438.5	336.8	286.0	258.9
125°	475.7	485.2	523.1	561.1	523.1	485.2	475.7	411.0	324.7	281.5	257.7
127.5°	444.4	452.3	484.4	516.5	484.4	452.3	444.4	388.8	314.7	277.7	257.1
130°	424.6	432.0	461.7	491.2	461.7	432.0	424.6	375.2	309.2	276.2	257.4
132.5°	407.8	414.4	440.9	467.4	440.9	414.4	407.8	363.5	304.4	274.9	257.7
135°	384.0	389.7	412.6	435.4	412.6	389.7	384.0	346.9	297.4	272.7	257.4
137.5°	366.4	371.1	389.7	408.5	389.7	371.1	366.4	335.0	293.2	272.3	259.0
140°	352.4	356.7	374.2	391.7	374.2	356.7	352.4	325.3	289.1	271.0	259.3
142.5°	342.4	346.1	361.2	376.3	361.2	346.1	342.4	318.6	286.9	271.0	260.2
145°	327.6	330.4	341.9	353.2	341.9	330.4	327.6	308.1	282.2	269.2	260.3
147.5°	315.2	317.5	327.0	336.4	327.0	317.5	315.2	299.9	279.5	269.2	262.0
150°	308.0	310.0	317.6	325.3	317.6	310.0	308.0	295.1	277.9	269.2	262.9
152.5°	302.4	303.8	309.6	315.3	309.6	303.8	302.4	291.4	276.6	269.2	263.6
155°	295.6	296.6	300.4	304.2	300.4	296.6	295.6	286.8	275.1	269.2	264.9
157.5°	289.8	290.5	293.1	295.8	293.1	290.5	289.8	282.9	273.8	269.2	266.2
160°	286.8	287.2	288.8	290.3	288.8	287.2	286.8	281.0	273.1	269.2	266.8
162.5°	284.1	284.4	285.9	287.4	285.9	284.4	284.1	279.1	272.5	269.2	267.6
165°	279.8	280.2	281.8	283.4	281.8	280.2	279.8	276.3	271.6	269.2	268.4
167.5°	278.0	278.2	278.8	279.5	278.8	278.2	278.0	275.7	272.6	271.0	270.4
170°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	275.7	272.6	271.0	271.0
172.5°	276.5	276.3	275.8	275.3	275.8	276.3	276.5	274.7	272.3	271.0	271.0
175°	274.6	274.6	274.6	274.6	274.6	274.6	274.6	273.4	271.8	271.0	271.4
177.5°	274.2	274.0	273.4	272.7	273.4	274.0	274.2	273.3	272.1	271.5	271.7
180°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	629.5	629.5	629.5	629.5	629.5
2.5°	621.8	624.7	626.5	628.9	634.8
5°	597.9	609.3	612.8	621.8	632.4
7.5°	545.5	580.0	589.5	611.0	627.7
10°	494.9	529.4	546.1	596.7	621.8
12.5°	469.3	489.6	500.8	571.7	613.4
15°	453.2	467.5	475.9	538.4	603.8
17.5°	440.7	450.8	456.8	505.6	590.8
20°	433.0	437.7	443.1	481.8	575.9
22.5°	427.6	424.6	428.8	465.1	555.6
25°	424.0	412.7	417.4	452.0	531.8
27.5°	427.0	402.0	403.8	440.1	506.8
30°	427.6	388.9	389.5	427.6	478.8
32.5°	423.4	375.2	375.8	412.1	447.3
35°	413.3	359.1	358.5	394.3	404.4
37.5°	399.6	341.9	341.9	374.6	357.3
40°	382.9	324.6	326.3	349.0	315.6
42.5°	362.7	306.1	308.5	315.1	284.7
45°	340.6	288.2	290.0	266.2	260.8
47.5°	316.2	269.8	270.4	220.9	253.1
50°	287.1	250.7	248.4	189.4	252.5
52.5°	261.4	229.9	222.7	171.5	229.3
55°	236.4	207.9	192.3	157.8	212.6
57.5°	214.4	179.3	164.4	141.7	209.0
60°	194.1	151.2	139.9	124.5	191.8
62.5°	177.5	130.4	128.0	112.6	173.9
65°	159.6	116.2	115.5	102.5	147.7
67.5°	142.3	106.6	106.0	92.9	112.6
70°	123.9	96.4	95.3	82.8	83.4
72.5°	104.8	85.2	84.0	74.4	69.1
75°	85.8	72.0	71.5	64.9	55.9
77.5°	67.3	57.2	58.3	52.4	41.1
80°	48.2	41.6	42.9	37.6	31.0
82.5°	32.1	27.4	28.6	23.8	20.9
85°	17.8	15.5	16.1	12.5	9.5
87.5°	8.3	7.1	7.1	4.8	3.0
90°	8.1	5.2	4.8	3.3	1.9
92.5°	49.6	35.3	32.2	19.7	7.3
95°	122.2	68.8	63.1	40.3	17.6
97.5°	164.5	75.6	70.5	50.4	30.4
100°	180.0	81.3	76.7	58.4	40.2
102.5°	187.1	86.9	82.7	65.7	48.7
105°	192.3	95.4	91.7	77.3	63.0
107.5°	193.3	107.8	104.4	91.0	77.6
110°	191.9	114.7	111.7	99.5	87.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	191.9	123.2	120.2	108.7	97.1
115°	193.7	135.8	133.1	122.5	111.8
117.5°	197.3	148.0	145.6	136.0	126.3
120°	200.2	155.2	152.9	143.9	134.7
122.5°	204.4	163.7	161.3	152.2	143.0
125°	210.1	174.4	172.3	163.9	155.6
127.5°	215.8	184.9	182.8	174.3	165.8
130°	220.0	191.8	189.5	180.4	171.3
132.5°	223.3	197.5	195.2	186.1	177.0
135°	227.0	204.1	202.0	193.7	185.4
137.5°	232.5	212.5	210.5	202.2	194.0
140°	235.8	218.2	216.3	208.7	201.1
142.5°	238.6	222.4	220.6	213.7	206.6
145°	242.2	228.7	227.2	221.1	215.1
147.5°	247.7	236.8	235.3	229.5	223.5
150°	250.4	241.0	239.7	234.3	228.9
152.5°	252.3	243.8	242.8	238.7	234.6
155°	256.3	249.8	249.1	246.1	243.0
157.5°	260.3	255.8	255.1	252.2	249.3
160°	262.1	258.6	258.1	255.7	253.5
162.5°	264.1	261.5	261.1	259.4	257.7
165°	266.9	265.8	265.4	263.8	262.3
167.5°	269.1	268.1	267.9	267.2	266.5
170°	270.9	270.8	270.7	270.0	269.2
172.5°	271.0	271.0	271.0	270.8	270.7
175°	272.2	272.7	272.7	272.7	272.7
177.5°	272.3	272.7	272.7	272.7	272.7
180°	272.7	272.7	272.7	272.7	272.7



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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	10.74	11.58	11.71	12.57	13.87	13.54	14.38	14.51	15.37	16.67
	3H	11.22	11.97	12.20	12.97	14.29	14.87	15.63	15.86	16.62	17.95
	4H	11.41	12.12	12.40	13.12	14.45	15.31	16.02	16.31	17.02	18.35
	6H	11.52	12.18	12.53	13.19	14.53	15.58	16.24	16.59	17.25	18.59
	8H	11.53	12.15	12.54	13.17	14.51	15.65	16.28	16.67	17.30	18.64
	12H	11.50	12.09	12.52	13.11	14.47	15.69	16.28	16.71	17.30	18.66
4H	2H	11.76	12.48	12.77	13.48	14.81	13.95	14.66	14.95	15.66	16.99
	3H	12.79	13.38	13.80	14.41	15.76	15.44	16.04	16.45	17.07	18.41
	4H	13.06	13.61	14.08	14.63	16.00	15.96	16.51	16.98	17.53	18.89
	6H	13.19	13.66	14.22	14.70	16.06	16.32	16.79	17.35	17.83	19.19
	8H	13.19	13.63	14.23	14.67	16.05	16.42	16.86	17.45	17.89	19.27
	12H	13.16	13.56	14.21	14.61	15.99	16.47	16.86	17.52	17.92	19.30
8H	4H	13.51	13.95	14.54	14.99	16.36	16.09	16.52	17.12	17.56	18.94
	6H	13.77	14.13	14.83	15.21	16.59	16.51	16.87	17.57	17.95	19.33
	8H	13.81	14.13	14.88	15.20	16.59	16.66	16.98	17.72	18.04	19.44
	12H	13.80	14.08	14.87	15.14	16.57	16.75	17.03	17.82	18.09	19.53
12H	4H	13.51	13.91	14.57	14.96	16.35	16.05	16.44	17.10	17.50	18.88
	6H	13.83	14.15	14.89	15.21	16.61	16.51	16.83	17.57	17.89	19.29
	8H	13.90	14.18	14.96	15.24	16.67	16.66	16.95	17.73	18.00	19.44