

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: P935098

Luminaire Tested: SQ4-FA-100U-050D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935098
REPORT IS A COMBINATION OF REPORTS P933738 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-B35-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

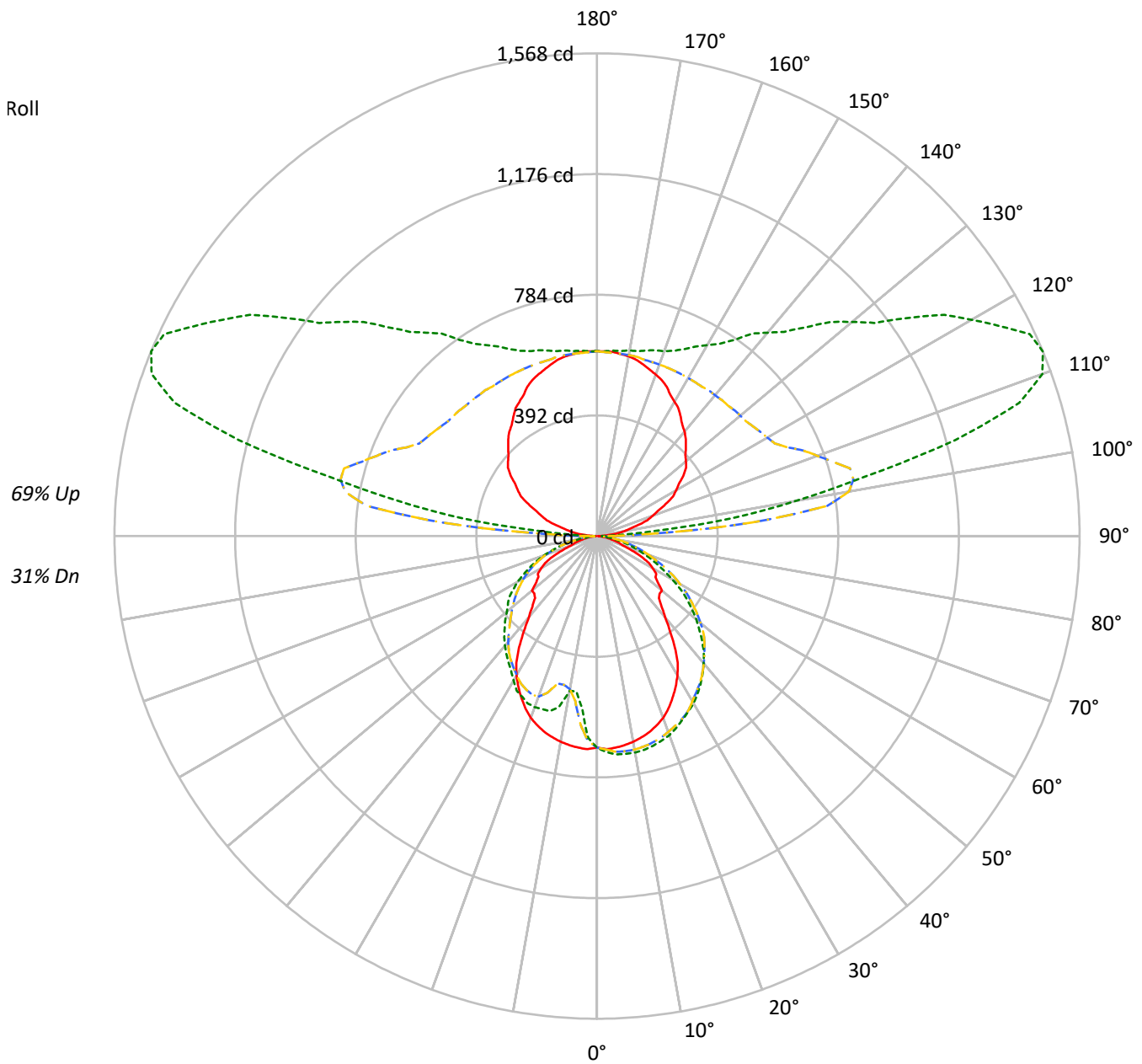
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5676.4 lumens
Efficiency: N/A
Efficacy: 137.8 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): 41.2
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: P935098
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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6374	6374	6374	6374
5°	6414	6434	6414	5059
10°	6365	6338	6365	4532
15°	6288	6201	6288	5178
20°	6149	6038	6149	5189
25°	5873	5801	5873	5079
30°	5519	5604	5519	4838
35°	4913	5354	4913	4572
40°	4086	5062	4086	4371
45°	3644	4718	3644	4140
50°	3863	4308	3863	3909
55°	3624	3868	3624	3777
60°	3723	3285	3723	3459
65°	3357	2715	3357	3034
70°	2310	2164	2310	2545
75°	2000	1599	2000	1916
80°	1582	1058	1582	1152
85°	861	560	861	476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5596 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.1
10°-20°	176.0	3.1
20°-30°	272.1	4.8
30°-40°	324.9	5.7
40°-50°	326.8	5.8
50°-60°	284.3	5.0
60°-70°	201.6	3.6
70°-80°	106.7	1.9
80°-90°	28.9	0.5
90°-100°	292.7	5.2
100°-110°	769.6	13.6
110°-120°	798.0	14.1
120°-130°	640.1	11.3
130°-140°	502.2	8.8
140°-150°	385.5	6.8
150°-160°	277.6	4.9
160°-170°	169.9	3.0
170°-180°	57.4	1.0
0°-30°	510.2	9.0
0°-40°	835.1	14.7
0°-60°	1446.2	25.5
0°-90°	1783.3	31.4
90°-120°	1860.4	32.8
90°-150°	3388.2	59.7
90°-180°	3893.0	68.6
0°-180°	5676.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	687	687	687	687	687	
5°	690	712	690	560	690	65
15°	659	705	659	589	659	185
25°	580	658	580	576	580	266
35°	441	587	441	501	441	273
45°	285	484	285	424	285	228
55°	232	357	232	348	232	213
65°	161	215	161	240	161	154
75°	61	102	61	122	61	64
85°	10	26	10	22	10	14
90°	4	15	4	15	4	4
95°	39	177	39	177	39	43
105°	139	1205	139	1205	139	147
115°	246	1552	246	1552	246	243
125°	343	1236	343	1236	343	304
135°	408	959	408	959	408	316
145°	474	778	474	778	474	297
155°	535	670	535	670	535	246
165°	578	624	578	624	578	163
175°	601	605	601	605	601	57
180°	601	601	601	601	601	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	692.7	692.7	696.6	698.0	698.0	696.0	694.1	696.0	701.8	703.8	703.1
5°	690.1	695.4	702.5	703.8	705.1	704.5	703.1	704.5	711.0	712.2	712.9
7.5°	685.0	694.7	703.8	705.7	707.7	705.7	705.1	706.4	712.9	714.2	714.2
10°	678.5	692.1	702.5	703.8	705.7	703.8	703.8	706.4	712.9	714.2	714.8
12.5°	669.4	688.2	698.0	699.2	701.8	701.2	700.6	703.1	709.7	711.0	711.0
15°	658.9	681.0	690.1	691.5	696.0	694.7	694.7	697.3	704.5	706.4	705.7
17.5°	644.7	672.0	682.4	684.3	687.6	686.9	687.6	690.1	696.6	698.0	698.6
20°	628.4	659.6	672.0	673.9	677.1	677.1	677.1	680.4	686.9	689.5	689.5
22.5°	606.3	646.6	659.6	661.0	664.8	664.8	666.1	670.6	676.5	677.1	677.1
25°	580.3	632.3	643.3	647.3	651.2	653.1	655.0	657.7	659.6	658.9	659.6
27.5°	553.0	614.2	628.4	631.0	636.2	638.2	640.8	641.4	642.1	644.0	642.7
30°	522.5	588.8	610.2	612.8	621.2	622.6	620.0	621.2	624.5	625.8	627.1
32.5°	488.1	551.1	591.4	597.2	605.0	601.2	600.5	602.4	607.7	607.7	608.9
35°	441.3	521.8	573.8	579.1	584.9	580.3	583.0	583.5	586.8	588.8	588.1
37.5°	389.9	496.5	555.6	559.5	564.1	558.2	562.1	564.1	566.7	565.4	565.4
40°	344.4	456.9	534.2	536.8	540.7	536.1	540.0	541.4	542.6	541.4	540.7
42.5°	310.7	413.3	511.4	514.7	512.1	515.3	516.7	519.3	517.3	514.7	514.7
45°	284.6	401.7	486.7	490.6	486.7	492.0	493.9	493.9	488.1	486.7	486.1
47.5°	276.2	378.2	462.0	462.0	460.1	466.6	469.9	465.3	459.5	457.5	457.5
50°	275.6	352.2	428.3	425.7	434.8	442.5	439.3	434.8	430.2	423.1	423.1
52.5°	250.2	320.4	384.7	394.5	408.7	413.3	408.1	403.6	395.7	392.5	389.9
55°	232.0	287.2	345.1	364.5	379.6	385.4	375.6	371.0	359.4	357.5	356.1
57.5°	228.1	239.1	308.7	333.3	351.6	351.0	345.1	336.6	326.8	324.9	324.3
60°	209.3	172.9	269.7	298.9	317.7	315.8	310.7	302.8	293.7	292.4	291.2
62.5°	189.7	125.4	225.5	258.6	285.3	284.6	280.1	268.4	261.9	258.6	256.0
65°	161.1	105.2	160.6	215.1	253.5	254.8	245.0	236.5	229.4	225.5	224.8
67.5°	122.9	85.8	108.5	179.4	222.9	221.6	209.3	205.3	196.2	194.3	190.4
70°	91.0	57.2	75.4	145.5	193.0	189.7	180.0	175.5	167.1	162.5	159.9
72.5°	75.4	46.1	55.2	113.1	162.5	158.5	150.1	145.0	137.8	133.9	131.3
75°	61.0	48.7	42.2	83.8	131.9	129.4	121.5	116.3	110.5	105.2	105.9
77.5°	44.9	45.4	33.8	61.7	104.7	100.8	96.2	89.7	87.1	81.9	81.9
80°	33.8	35.8	25.4	42.2	75.4	75.4	71.5	67.0	62.4	59.8	59.8
82.5°	22.8	22.8	18.8	26.6	51.4	49.4	46.8	45.4	42.9	41.6	41.6
85°	10.4	13.0	11.7	16.3	27.9	29.3	29.3	27.9	27.3	26.0	26.6
87.5°	3.3	5.8	7.2	9.1	14.3	14.9	15.6	15.6	15.6	16.3	16.3
90°	4.1	7.3	10.5	11.2	17.7	26.4	30.6	27.2	20.4	15.3	15.3
92.5°	16.1	43.5	70.9	77.8	109.4	151.5	172.5	151.2	108.5	76.6	73.5
95°	38.7	88.9	139.1	151.6	269.1	425.8	504.2	449.9	341.4	260.0	250.8
97.5°	66.9	111.1	155.4	166.5	362.5	623.8	754.5	720.2	651.6	600.1	582.6
100°	88.7	128.8	168.9	179.0	396.5	686.5	831.5	834.0	839.0	842.7	821.8
102.5°	107.2	144.7	182.1	191.5	412.1	706.2	853.3	897.0	984.4	1049.9	1032.0
105°	138.7	170.4	202.0	210.0	423.6	708.4	850.9	948.8	1144.8	1291.8	1282.2
107.5°	170.9	200.5	230.0	237.4	425.8	676.8	802.4	939.2	1212.5	1417.6	1419.9
110°	192.6	219.4	246.0	252.7	422.5	648.9	762.1	914.9	1220.6	1449.7	1459.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	214.1	239.4	264.8	271.2	422.7	624.5	725.5	881.9	1194.6	1429.2	1444.6
115°	246.2	269.7	293.1	299.0	426.6	596.6	681.6	832.3	1133.5	1359.5	1380.8
117.5°	278.1	299.4	320.7	326.1	434.5	579.1	651.4	787.3	1059.2	1263.2	1286.8
120°	296.6	316.7	336.7	341.8	440.9	573.2	639.2	763.5	1011.9	1198.3	1221.3
122.5°	314.8	335.1	355.3	360.4	450.2	570.1	629.9	741.8	965.5	1133.3	1156.0
125°	342.6	361.0	379.5	384.1	462.7	567.4	619.9	714.9	904.9	1047.5	1068.4
127.5°	365.1	383.7	402.4	407.1	475.2	566.0	611.4	693.0	856.2	978.6	996.2
130°	377.2	397.3	417.3	422.4	484.3	567.0	608.2	680.9	826.2	935.1	951.4
132.5°	389.7	409.8	429.8	434.9	491.7	567.4	605.3	670.4	800.4	898.0	912.6
135°	408.3	426.6	444.9	449.4	499.8	567.0	600.6	655.0	763.9	845.5	858.1
137.5°	427.2	445.4	463.4	467.9	511.8	570.5	599.7	645.7	737.8	806.9	817.2
140°	442.9	459.6	476.3	480.4	519.3	571.0	596.9	636.6	716.2	775.9	785.5
142.5°	455.0	470.4	485.9	489.7	525.5	573.1	596.9	631.8	701.7	754.1	762.4
145°	473.6	487.0	500.4	503.8	533.5	573.2	592.9	621.5	678.6	721.4	727.7
147.5°	492.2	505.2	518.2	521.5	545.4	577.0	592.9	615.4	660.4	694.1	699.3
150°	504.2	516.0	527.8	530.8	551.6	579.2	592.9	611.9	649.8	678.3	682.5
152.5°	516.7	525.6	534.6	536.8	555.5	580.4	592.9	609.1	641.5	665.8	669.0
155°	535.3	541.9	548.6	550.2	564.4	583.4	592.9	605.8	631.6	650.9	653.0
157.5°	548.9	555.4	561.8	563.5	573.3	586.3	592.9	602.9	623.0	638.0	639.4
160°	558.2	563.3	568.2	569.5	577.3	587.7	592.9	601.6	618.7	631.6	632.5
162.5°	567.4	571.2	575.0	576.0	581.6	589.2	592.9	600.2	614.6	625.5	626.3
165°	577.5	580.9	584.3	585.2	587.8	591.2	592.9	598.2	608.5	616.3	617.2
167.5°	586.8	588.5	590.1	590.5	592.6	595.5	596.9	600.3	607.1	612.2	612.6
170°	592.9	594.5	596.1	596.5	596.6	596.8	596.9	600.3	607.1	612.2	612.2
172.5°	596.1	596.5	596.8	596.9	596.9	596.9	596.9	599.6	604.9	609.0	608.7
175°	600.6	600.6	600.6	600.6	599.3	597.7	596.9	598.6	602.0	604.6	604.6
177.5°	600.6	600.6	600.6	600.6	599.6	598.4	597.7	599.0	601.7	603.8	603.4
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	704.5	702.5	704.5	703.1	703.8	701.8	696.0	694.1	696.0	698.0	698.0
5°	712.9	711.6	712.9	712.9	712.2	711.0	704.5	703.1	704.5	705.1	703.8
7.5°	715.5	713.6	715.5	714.2	714.2	712.9	706.4	705.1	705.7	707.7	705.7
10°	715.5	713.6	715.5	714.8	714.2	712.9	706.4	703.8	703.8	705.7	703.8
12.5°	712.2	711.0	712.2	711.0	711.0	709.7	703.1	700.6	701.2	701.8	699.2
15°	707.1	705.1	707.1	705.7	706.4	704.5	697.3	694.7	694.7	696.0	691.5
17.5°	699.2	696.6	699.2	698.6	698.0	696.6	690.1	687.6	686.9	687.6	684.3
20°	690.1	688.2	690.1	689.5	689.5	686.9	680.4	677.1	677.1	677.1	673.9
22.5°	675.9	673.9	675.9	677.1	677.1	676.5	670.6	666.1	664.8	664.8	661.0
25°	659.6	657.7	659.6	659.6	658.9	659.6	657.7	655.0	653.1	651.2	647.3
27.5°	644.0	642.7	644.0	642.7	644.0	642.1	641.4	640.8	638.2	636.2	631.0
30°	628.4	627.1	628.4	627.1	625.8	624.5	621.2	620.0	622.6	621.2	612.8
32.5°	608.9	607.7	608.9	608.9	607.7	607.7	602.4	600.5	601.2	605.0	597.2
35°	588.8	586.8	588.8	588.1	588.8	586.8	583.5	583.0	580.3	584.9	579.1
37.5°	565.4	563.5	565.4	565.4	565.4	566.7	564.1	562.1	558.2	564.1	559.5
40°	541.4	538.8	541.4	540.7	541.4	542.6	541.4	540.0	536.1	540.7	536.8
42.5°	514.1	513.4	514.1	514.7	514.7	517.3	519.3	516.7	515.3	512.1	514.7
45°	484.8	483.5	484.8	486.1	486.7	488.1	493.9	493.9	492.0	486.7	490.6
47.5°	453.6	450.4	453.6	457.5	457.5	459.5	465.3	469.9	466.6	460.1	462.0
50°	420.4	421.1	420.4	423.1	423.1	430.2	434.8	439.3	442.5	434.8	425.7
52.5°	388.0	387.3	388.0	389.9	392.5	395.7	403.6	408.1	413.3	408.7	394.5
55°	355.4	356.8	355.4	356.1	357.5	359.4	371.0	375.6	385.4	379.6	364.5
57.5°	323.0	321.0	323.0	324.3	324.9	326.8	336.6	345.1	351.0	351.6	333.3
60°	285.3	282.7	285.3	291.2	292.4	293.7	302.8	310.7	315.8	317.7	298.9
62.5°	252.1	247.6	252.1	256.0	258.6	261.9	268.4	280.1	284.6	285.3	258.6
65°	217.1	215.1	217.1	224.8	225.5	229.4	236.5	245.0	254.8	253.5	215.1
67.5°	185.2	185.2	185.2	190.4	194.3	196.2	205.3	209.3	221.6	222.9	179.4
70°	156.0	155.3	156.0	159.9	162.5	167.1	175.5	180.0	189.7	193.0	145.5
72.5°	128.0	127.3	128.0	131.3	133.9	137.8	145.0	150.1	158.5	162.5	113.1
75°	103.3	102.0	103.3	105.9	105.2	110.5	116.3	121.5	129.4	131.9	83.8
77.5°	79.3	79.3	79.3	81.9	81.9	87.1	89.7	96.2	100.8	104.7	61.7
80°	59.1	58.5	59.1	59.8	59.8	62.4	67.0	71.5	75.4	75.4	42.2
82.5°	41.6	40.3	41.6	41.6	41.6	42.9	45.4	46.8	49.4	51.4	26.6
85°	26.0	26.0	26.0	26.6	26.0	27.3	27.9	29.3	29.3	27.9	16.3
87.5°	16.9	16.3	16.9	16.3	16.3	15.6	15.6	15.6	14.9	14.3	9.1
90°	15.3	15.3	15.3	15.3	15.3	20.4	27.2	30.6	26.4	17.7	11.2
92.5°	61.3	49.1	61.3	73.5	76.6	108.5	151.2	172.5	151.5	109.4	77.8
95°	213.9	176.9	213.9	250.8	260.0	341.4	449.9	504.2	425.8	269.1	151.6
97.5°	512.3	442.2	512.3	582.6	600.1	651.6	720.2	754.5	623.8	362.5	166.5
100°	738.2	654.6	738.2	821.8	842.7	839.0	834.0	831.5	686.5	396.5	179.0
102.5°	960.4	888.8	960.4	1032.0	1049.9	984.4	897.0	853.3	706.2	412.1	191.5
105°	1243.6	1205.1	1243.6	1282.2	1291.8	1144.8	948.8	850.9	708.4	423.6	210.0
107.5°	1429.2	1438.5	1429.2	1419.9	1417.6	1212.5	939.2	802.4	676.8	425.8	237.4
110°	1499.9	1540.0	1499.9	1459.8	1449.7	1220.6	914.9	762.1	648.9	422.5	252.7



TEST NUMBER: P935098

CATALOG NUMBER: SQ4-FA-100U-050D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1506.2	1567.8	1506.2	1444.6	1429.2	1194.6	881.9	725.5	624.5	422.7	271.2
115°	1466.3	1551.8	1466.3	1380.8	1359.5	1133.5	832.3	681.6	596.6	426.6	299.0
117.5°	1381.6	1476.4	1381.6	1286.8	1263.2	1059.2	787.3	651.4	579.1	434.5	326.1
120°	1313.4	1405.4	1313.4	1221.3	1198.3	1011.9	763.5	639.2	573.2	440.9	341.8
122.5°	1246.9	1337.7	1246.9	1156.0	1133.3	965.5	741.8	629.9	570.1	450.2	360.4
125°	1152.0	1235.8	1152.0	1068.4	1047.5	904.9	714.9	619.9	567.4	462.7	384.1
127.5°	1066.9	1137.4	1066.9	996.2	978.6	856.2	693.0	611.4	566.0	475.2	407.1
130°	1016.6	1081.8	1016.6	951.4	935.1	826.2	680.9	608.2	567.0	484.3	422.4
132.5°	970.9	1029.4	970.9	912.6	898.0	800.4	670.4	605.3	567.4	491.7	434.9
135°	908.4	958.8	908.4	858.1	845.5	763.9	655.0	600.6	567.0	499.8	449.4
137.5°	858.4	899.6	858.4	817.2	806.9	737.8	645.7	599.7	570.5	511.8	467.9
140°	824.0	862.5	824.0	785.5	775.9	716.2	636.6	596.9	571.0	519.3	480.4
142.5°	795.5	828.7	795.5	762.4	754.1	701.7	631.8	596.9	573.1	525.5	489.7
145°	752.8	777.9	752.8	727.7	721.4	678.6	621.5	592.9	573.2	533.5	503.8
147.5°	720.1	740.8	720.1	699.3	694.1	660.4	615.4	592.9	577.0	545.4	521.5
150°	699.3	716.2	699.3	682.5	678.3	649.8	611.9	592.9	579.2	551.6	530.8
152.5°	681.7	694.5	681.7	669.0	665.8	641.5	609.1	592.9	580.4	555.5	536.8
155°	661.4	669.9	661.4	653.0	650.9	631.6	605.8	592.9	583.4	564.4	550.2
157.5°	645.5	651.4	645.5	639.4	638.0	623.0	602.9	592.9	586.3	573.3	563.5
160°	635.9	639.2	635.9	632.5	631.6	618.7	601.6	592.9	587.7	577.3	569.5
162.5°	629.6	632.8	629.6	626.3	625.5	614.6	600.2	592.9	589.2	581.6	576.0
165°	620.5	623.9	620.5	617.2	616.3	608.5	598.2	592.9	591.2	587.8	585.2
167.5°	614.0	615.4	614.0	612.6	612.2	607.1	600.3	596.9	595.5	592.6	590.5
170°	612.2	612.2	612.2	612.2	612.2	607.1	600.3	596.9	596.8	596.6	596.5
172.5°	607.5	606.2	607.5	608.7	609.0	604.9	599.6	596.9	596.9	596.9	596.9
175°	604.6	604.6	604.6	604.6	604.6	602.0	598.6	596.9	597.7	599.3	600.6
177.5°	602.0	600.6	602.0	603.4	603.8	601.7	599.0	597.7	598.4	599.6	600.6
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935098

CATALOG NUMBER: SQ4-FA-100U-050D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	696.6	692.7	692.7	686.2	683.6	681.7	678.5	668.7	666.1	663.5	667.4
5°	702.5	695.4	690.1	678.5	668.7	664.8	652.4	629.1	613.5	601.7	595.3
7.5°	703.8	694.7	685.0	666.8	643.3	633.0	595.3	552.4	540.7	530.3	523.7
10°	702.5	692.1	678.5	651.2	595.9	577.7	540.0	512.1	504.9	503.0	504.9
12.5°	698.0	688.2	669.4	623.8	546.5	534.2	512.1	495.8	494.6	497.8	515.3
15°	690.1	681.0	658.9	587.5	519.3	510.2	494.6	488.7	495.8	518.6	571.2
17.5°	682.4	672.0	644.7	551.7	498.5	492.0	480.9	492.6	532.9	563.5	581.0
20°	672.0	659.6	628.4	525.8	483.5	477.6	472.5	525.1	555.6	566.7	576.5
22.5°	659.6	646.6	606.3	507.6	467.9	463.4	466.6	543.3	555.6	563.5	571.9
25°	643.3	632.3	580.3	493.2	455.5	450.4	462.7	541.4	548.5	550.4	567.3
27.5°	628.4	614.2	553.0	480.2	440.6	438.7	466.0	532.9	538.1	540.0	558.2
30°	610.2	588.8	522.5	466.6	425.0	424.3	466.6	522.5	521.2	526.4	544.6
32.5°	591.4	551.1	488.1	449.7	410.1	409.4	462.0	506.9	505.6	512.7	526.4
35°	573.8	521.8	441.3	430.2	391.2	391.9	451.0	488.7	489.3	495.8	504.3
37.5°	555.6	496.5	389.9	408.7	373.1	373.1	436.0	471.8	470.5	472.5	484.1
40°	534.2	456.9	344.4	380.8	356.1	354.2	417.8	453.6	449.0	448.5	464.6
42.5°	511.4	413.3	310.7	343.8	336.6	334.0	395.7	431.5	423.1	425.0	445.8
45°	486.7	401.7	284.6	290.5	316.5	314.5	371.7	406.2	400.3	405.5	426.9
47.5°	462.0	378.2	276.2	241.1	295.1	294.4	345.1	381.5	378.2	383.4	406.2
50°	428.3	352.2	275.6	206.7	271.0	273.5	313.3	357.5	357.5	362.0	386.0
52.5°	384.7	320.4	250.2	187.1	243.0	250.9	285.3	336.6	337.9	342.4	364.0
55°	345.1	287.2	232.0	172.2	209.9	226.8	257.9	315.2	317.7	322.3	341.9
57.5°	308.7	239.1	228.1	154.7	179.4	195.6	233.9	294.4	295.6	299.6	318.4
60°	269.7	172.9	209.3	135.9	152.7	165.0	211.8	269.7	274.2	276.8	293.1
62.5°	225.5	125.4	189.7	122.9	139.7	142.3	193.7	246.3	252.1	254.1	263.9
65°	160.6	105.2	161.1	111.8	126.1	126.7	174.1	222.3	227.4	230.7	237.9
67.5°	108.5	85.8	122.9	101.4	115.7	116.3	155.3	194.3	201.5	204.1	208.6
70°	75.4	57.2	91.0	90.3	104.0	105.2	135.2	169.0	175.5	177.4	180.0
72.5°	55.2	46.1	75.4	81.2	91.7	92.9	114.3	140.4	146.9	148.8	150.1
75°	42.2	48.7	61.0	70.8	78.0	78.6	93.6	114.3	118.9	120.3	120.8
77.5°	33.8	45.4	44.9	57.2	63.7	62.4	73.5	88.4	92.2	92.2	92.2
80°	25.4	35.8	33.8	41.0	46.8	45.4	52.6	63.1	64.3	65.6	65.0
82.5°	18.8	22.8	22.8	26.0	31.2	29.9	35.1	41.0	41.0	41.0	42.2
85°	11.7	13.0	10.4	13.7	17.5	16.9	19.5	22.1	22.8	22.8	21.4
87.5°	7.2	5.8	3.3	5.2	7.8	7.8	9.1	9.8	9.1	9.1	9.1
90°	10.5	7.3	4.1	7.3	10.5	11.2	17.7	26.4	30.6	27.2	20.4
92.5°	70.9	43.5	16.1	43.5	70.9	77.8	109.4	151.5	172.5	151.2	108.5
95°	139.1	88.9	38.7	88.9	139.1	151.6	269.1	425.8	504.2	449.9	341.4
97.5°	155.4	111.1	66.9	111.1	155.4	166.5	362.5	623.8	754.5	720.2	651.6
100°	168.9	128.8	88.7	128.8	168.9	179.0	396.5	686.5	831.5	834.0	839.0
102.5°	182.1	144.7	107.2	144.7	182.1	191.5	412.1	706.2	853.3	897.0	984.4
105°	202.0	170.4	138.7	170.4	202.0	210.0	423.6	708.4	850.9	948.8	1144.8
107.5°	230.0	200.5	170.9	200.5	230.0	237.4	425.8	676.8	802.4	939.2	1212.5
110°	246.0	219.4	192.6	219.4	246.0	252.7	422.5	648.9	762.1	914.9	1220.6



TEST NUMBER: P935098

CATALOG NUMBER: SQ4-FA-100U-050D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	264.8	239.4	214.1	239.4	264.8	271.2	422.7	624.5	725.5	881.9	1194.6
115°	293.1	269.7	246.2	269.7	293.1	299.0	426.6	596.6	681.6	832.3	1133.5
117.5°	320.7	299.4	278.1	299.4	320.7	326.1	434.5	579.1	651.4	787.3	1059.2
120°	336.7	316.7	296.6	316.7	336.7	341.8	440.9	573.2	639.2	763.5	1011.9
122.5°	355.3	335.1	314.8	335.1	355.3	360.4	450.2	570.1	629.9	741.8	965.5
125°	379.5	361.0	342.6	361.0	379.5	384.1	462.7	567.4	619.9	714.9	904.9
127.5°	402.4	383.7	365.1	383.7	402.4	407.1	475.2	566.0	611.4	693.0	856.2
130°	417.3	397.3	377.2	397.3	417.3	422.4	484.3	567.0	608.2	680.9	826.2
132.5°	429.8	409.8	389.7	409.8	429.8	434.9	491.7	567.4	605.3	670.4	800.4
135°	444.9	426.6	408.3	426.6	444.9	449.4	499.8	567.0	600.6	655.0	763.9
137.5°	463.4	445.4	427.2	445.4	463.4	467.9	511.8	570.5	599.7	645.7	737.8
140°	476.3	459.6	442.9	459.6	476.3	480.4	519.3	571.0	596.9	636.6	716.2
142.5°	485.9	470.4	455.0	470.4	485.9	489.7	525.5	573.1	596.9	631.8	701.7
145°	500.4	487.0	473.6	487.0	500.4	503.8	533.5	573.2	592.9	621.5	678.6
147.5°	518.2	505.2	492.2	505.2	518.2	521.5	545.4	577.0	592.9	615.4	660.4
150°	527.8	516.0	504.2	516.0	527.8	530.8	551.6	579.2	592.9	611.9	649.8
152.5°	534.6	525.6	516.7	525.6	534.6	536.8	555.5	580.4	592.9	609.1	641.5
155°	548.6	541.9	535.3	541.9	548.6	550.2	564.4	583.4	592.9	605.8	631.6
157.5°	561.8	555.4	548.9	555.4	561.8	563.5	573.3	586.3	592.9	602.9	623.0
160°	568.2	563.3	558.2	563.3	568.2	569.5	577.3	587.7	592.9	601.6	618.7
162.5°	575.0	571.2	567.4	571.2	575.0	576.0	581.6	589.2	592.9	600.2	614.6
165°	584.3	580.9	577.5	580.9	584.3	585.2	587.8	591.2	592.9	598.2	608.5
167.5°	590.1	588.5	586.8	588.5	590.1	590.5	592.6	595.5	596.9	600.3	607.1
170°	596.1	594.5	592.9	594.5	596.1	596.5	596.6	596.8	596.9	600.3	607.1
172.5°	596.8	596.5	596.1	596.5	596.8	596.9	596.9	596.9	596.9	599.6	604.9
175°	600.6	600.6	600.6	600.6	600.6	600.6	599.3	597.7	596.9	598.6	602.0
177.5°	600.6	600.6	600.6	600.6	600.6	600.6	599.6	598.4	597.7	599.0	601.7
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935098
 CATALOG NUMBER: SQ4-FA-100U-050D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	662.9	661.0	663.5	656.4	663.5	661.0	662.9	667.4	663.5	666.1	668.7
5°	581.6	578.4	568.0	559.5	568.0	578.4	581.6	595.3	601.7	613.5	629.1
7.5°	519.9	517.3	514.7	509.5	514.7	517.3	519.9	523.7	530.3	540.7	552.4
10°	506.2	506.9	510.8	510.2	510.8	506.9	506.2	504.9	503.0	504.9	512.1
12.5°	541.4	547.2	568.6	567.3	568.6	547.2	541.4	515.3	497.8	494.6	495.8
15°	581.6	583.5	588.1	588.8	588.1	583.5	581.6	571.2	518.6	495.8	488.7
17.5°	585.6	586.1	589.4	589.4	589.4	586.1	585.6	581.0	563.5	532.9	492.6
20°	582.3	583.5	590.1	591.4	590.1	583.5	582.3	576.5	566.7	555.6	525.1
22.5°	581.0	583.5	588.8	588.1	588.8	583.5	581.0	571.9	563.5	555.6	543.3
25°	574.5	574.5	575.1	575.8	575.1	574.5	574.5	567.3	550.4	548.5	541.4
27.5°	560.9	562.1	566.0	565.4	566.0	562.1	560.9	558.2	540.0	538.1	532.9
30°	548.5	547.2	543.9	541.4	543.9	547.2	548.5	544.6	526.4	521.2	522.5
32.5°	527.7	524.4	521.2	519.3	521.2	524.4	527.7	526.4	512.7	505.6	506.9
35°	503.0	503.7	503.0	501.1	503.0	503.7	503.0	504.3	495.8	489.3	488.7
37.5°	485.5	486.7	486.1	483.5	486.1	486.7	485.5	484.1	472.5	470.5	471.8
40°	467.3	467.9	467.3	465.3	467.3	467.9	467.3	464.6	448.5	449.0	453.6
42.5°	449.7	449.0	447.1	445.8	447.1	449.0	449.7	445.8	425.0	423.1	431.5
45°	429.6	430.2	426.3	424.3	426.3	430.2	429.6	426.9	405.5	400.3	406.2
47.5°	409.4	409.4	406.2	404.2	406.2	409.4	409.4	406.2	383.4	378.2	381.5
50°	388.0	387.3	382.8	382.1	382.8	387.3	388.0	386.0	362.0	357.5	357.5
52.5°	363.3	363.3	364.0	365.2	364.0	363.3	363.3	364.0	342.4	337.9	336.6
55°	341.9	342.4	347.0	348.4	347.0	342.4	341.9	341.9	322.3	317.7	315.2
57.5°	319.8	319.8	323.0	323.0	323.0	319.8	319.8	318.4	299.6	295.6	294.4
60°	294.4	295.6	298.3	297.7	298.3	295.6	294.4	293.1	276.8	274.2	269.7
62.5°	267.7	269.1	269.7	268.4	269.7	269.1	267.7	263.9	254.1	252.1	246.3
65°	239.8	241.1	241.8	240.4	241.8	241.1	239.8	237.9	230.7	227.4	222.3
67.5°	211.2	210.6	209.9	212.5	209.9	210.6	211.2	208.6	204.1	201.5	194.3
70°	182.0	182.0	181.3	182.7	181.3	182.0	182.0	180.0	177.4	175.5	169.0
72.5°	150.8	150.1	152.7	150.8	152.7	150.1	150.8	150.1	148.8	146.9	140.4
75°	120.3	121.5	120.3	122.2	120.3	121.5	120.3	120.8	120.3	118.9	114.3
77.5°	91.7	92.9	91.7	91.7	91.7	92.9	91.7	92.2	92.2	92.2	88.4
80°	65.0	64.3	64.3	63.7	64.3	64.3	65.0	65.0	65.6	64.3	63.1
82.5°	41.6	41.0	41.0	42.2	41.0	41.0	41.6	42.2	41.0	41.0	41.0
85°	22.8	23.4	22.1	22.1	22.1	23.4	22.8	21.4	22.8	22.8	22.1
87.5°	8.4	7.8	7.8	7.8	7.8	7.8	8.4	9.1	9.1	9.1	9.8
90°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	20.4	27.2	30.6	26.4
92.5°	76.6	73.5	61.3	49.1	61.3	73.5	76.6	108.5	151.2	172.5	151.5
95°	260.0	250.8	213.9	176.9	213.9	250.8	260.0	341.4	449.9	504.2	425.8
97.5°	600.1	582.6	512.3	442.2	512.3	582.6	600.1	651.6	720.2	754.5	623.8
100°	842.7	821.8	738.2	654.6	738.2	821.8	842.7	839.0	834.0	831.5	686.5
102.5°	1049.9	1032.0	960.4	888.8	960.4	1032.0	1049.9	984.4	897.0	853.3	706.2
105°	1291.8	1282.2	1243.6	1205.1	1243.6	1282.2	1291.8	1144.8	948.8	850.9	708.4
107.5°	1417.6	1419.9	1429.2	1438.5	1429.2	1419.9	1417.6	1212.5	939.2	802.4	676.8
110°	1449.7	1459.8	1499.9	1540.0	1499.9	1459.8	1449.7	1220.6	914.9	762.1	648.9



TEST NUMBER: P935098

CATALOG NUMBER: SQ4-FA-100U-050D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1429.2	1444.6	1506.2	1567.8	1506.2	1444.6	1429.2	1194.6	881.9	725.5	624.5
115°	1359.5	1380.8	1466.3	1551.8	1466.3	1380.8	1359.5	1133.5	832.3	681.6	596.6
117.5°	1263.2	1286.8	1381.6	1476.4	1381.6	1286.8	1263.2	1059.2	787.3	651.4	579.1
120°	1198.3	1221.3	1313.4	1405.4	1313.4	1221.3	1198.3	1011.9	763.5	639.2	573.2
122.5°	1133.3	1156.0	1246.9	1337.7	1246.9	1156.0	1133.3	965.5	741.8	629.9	570.1
125°	1047.5	1068.4	1152.0	1235.8	1152.0	1068.4	1047.5	904.9	714.9	619.9	567.4
127.5°	978.6	996.2	1066.9	1137.4	1066.9	996.2	978.6	856.2	693.0	611.4	566.0
130°	935.1	951.4	1016.6	1081.8	1016.6	951.4	935.1	826.2	680.9	608.2	567.0
132.5°	898.0	912.6	970.9	1029.4	970.9	912.6	898.0	800.4	670.4	605.3	567.4
135°	845.5	858.1	908.4	958.8	908.4	858.1	845.5	763.9	655.0	600.6	567.0
137.5°	806.9	817.2	858.4	899.6	858.4	817.2	806.9	737.8	645.7	599.7	570.5
140°	775.9	785.5	824.0	862.5	824.0	785.5	775.9	716.2	636.6	596.9	571.0
142.5°	754.1	762.4	795.5	828.7	795.5	762.4	754.1	701.7	631.8	596.9	573.1
145°	721.4	727.7	752.8	777.9	752.8	727.7	721.4	678.6	621.5	592.9	573.2
147.5°	694.1	699.3	720.1	740.8	720.1	699.3	694.1	660.4	615.4	592.9	577.0
150°	678.3	682.5	699.3	716.2	699.3	682.5	678.3	649.8	611.9	592.9	579.2
152.5°	665.8	669.0	681.7	694.5	681.7	669.0	665.8	641.5	609.1	592.9	580.4
155°	650.9	653.0	661.4	669.9	661.4	653.0	650.9	631.6	605.8	592.9	583.4
157.5°	638.0	639.4	645.5	651.4	645.5	639.4	638.0	623.0	602.9	592.9	586.3
160°	631.6	632.5	635.9	639.2	635.9	632.5	631.6	618.7	601.6	592.9	587.7
162.5°	625.5	626.3	629.6	632.8	629.6	626.3	625.5	614.6	600.2	592.9	589.2
165°	616.3	617.2	620.5	623.9	620.5	617.2	616.3	608.5	598.2	592.9	591.2
167.5°	612.2	612.6	614.0	615.4	614.0	612.6	612.2	607.1	600.3	596.9	595.5
170°	612.2	612.2	612.2	612.2	612.2	612.2	612.2	607.1	600.3	596.9	596.8
172.5°	609.0	608.7	607.5	606.2	607.5	608.7	609.0	604.9	599.6	596.9	596.9
175°	604.6	604.6	604.6	604.6	604.6	604.6	604.6	602.0	598.6	596.9	597.7
177.5°	603.8	603.4	602.0	600.6	602.0	603.4	603.8	601.7	599.0	597.7	598.4
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935098

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	686.9	686.9	686.9	686.9	686.9
2.5°	678.5	681.7	683.6	686.2	692.7
5°	652.4	664.8	668.7	678.5	690.1
7.5°	595.3	633.0	643.3	666.8	685.0
10°	540.0	577.7	595.9	651.2	678.5
12.5°	512.1	534.2	546.5	623.8	669.4
15°	494.6	510.2	519.3	587.5	658.9
17.5°	480.9	492.0	498.5	551.7	644.7
20°	472.5	477.6	483.5	525.8	628.4
22.5°	466.6	463.4	467.9	507.6	606.3
25°	462.7	450.4	455.5	493.2	580.3
27.5°	466.0	438.7	440.6	480.2	553.0
30°	466.6	424.3	425.0	466.6	522.5
32.5°	462.0	409.4	410.1	449.7	488.1
35°	451.0	391.9	391.2	430.2	441.3
37.5°	436.0	373.1	373.1	408.7	389.9
40°	417.8	354.2	356.1	380.8	344.4
42.5°	395.7	334.0	336.6	343.8	310.7
45°	371.7	314.5	316.5	290.5	284.6
47.5°	345.1	294.4	295.1	241.1	276.2
50°	313.3	273.5	271.0	206.7	275.6
52.5°	285.3	250.9	243.0	187.1	250.2
55°	257.9	226.8	209.9	172.2	232.0
57.5°	233.9	195.6	179.4	154.7	228.1
60°	211.8	165.0	152.7	135.9	209.3
62.5°	193.7	142.3	139.7	122.9	189.7
65°	174.1	126.7	126.1	111.8	161.1
67.5°	155.3	116.3	115.7	101.4	122.9
70°	135.2	105.2	104.0	90.3	91.0
72.5°	114.3	92.9	91.7	81.2	75.4
75°	93.6	78.6	78.0	70.8	61.0
77.5°	73.5	62.4	63.7	57.2	44.9
80°	52.6	45.4	46.8	41.0	33.8
82.5°	35.1	29.9	31.2	26.0	22.8
85°	19.5	16.9	17.5	13.7	10.4
87.5°	9.1	7.8	7.8	5.2	3.3
90°	17.7	11.2	10.5	7.3	4.1
92.5°	109.4	77.8	70.9	43.5	16.1
95°	269.1	151.6	139.1	88.9	38.7
97.5°	362.5	166.5	155.4	111.1	66.9
100°	396.5	179.0	168.9	128.8	88.7
102.5°	412.1	191.5	182.1	144.7	107.2
105°	423.6	210.0	202.0	170.4	138.7
107.5°	425.8	237.4	230.0	200.5	170.9
110°	422.5	252.7	246.0	219.4	192.6



TEST NUMBER: P935098

CATALOG NUMBER: SQ4-FA-100U-050D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	422.7	271.2	264.8	239.4	214.1
115°	426.6	299.0	293.1	269.7	246.2
117.5°	434.5	326.1	320.7	299.4	278.1
120°	440.9	341.8	336.7	316.7	296.6
122.5°	450.2	360.4	355.3	335.1	314.8
125°	462.7	384.1	379.5	361.0	342.6
127.5°	475.2	407.1	402.4	383.7	365.1
130°	484.3	422.4	417.3	397.3	377.2
132.5°	491.7	434.9	429.8	409.8	389.7
135°	499.8	449.4	444.9	426.6	408.3
137.5°	511.8	467.9	463.4	445.4	427.2
140°	519.3	480.4	476.3	459.6	442.9
142.5°	525.5	489.7	485.9	470.4	455.0
145°	533.5	503.8	500.4	487.0	473.6
147.5°	545.4	521.5	518.2	505.2	492.2
150°	551.6	530.8	527.8	516.0	504.2
152.5°	555.5	536.8	534.6	525.6	516.7
155°	564.4	550.2	548.6	541.9	535.3
157.5°	573.3	563.5	561.8	555.4	548.9
160°	577.3	569.5	568.2	563.3	558.2
162.5°	581.6	576.0	575.0	571.2	567.4
165°	587.8	585.2	584.3	580.9	577.5
167.5°	592.6	590.5	590.1	588.5	586.8
170°	596.6	596.5	596.1	594.5	592.9
172.5°	596.9	596.9	596.8	596.5	596.1
175°	599.3	600.6	600.6	600.6	600.6
177.5°	599.6	600.6	600.6	600.6	600.6
180°	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935098
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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	9.21	9.92	10.31	11.02	12.53	12.00	12.72	13.10	13.82	15.33
	3H	9.67	10.31	10.78	11.42	12.95	13.33	13.97	14.44	15.07	16.61
	4H	9.86	10.46	10.98	11.57	13.11	13.76	14.37	14.88	15.47	17.01
	6H	9.97	10.53	11.10	11.64	13.19	14.03	14.59	15.16	15.70	17.25
	8H	9.96	10.50	11.10	11.62	13.16	14.09	14.63	15.23	15.75	17.29
	12H	9.93	10.44	11.07	11.56	13.12	14.12	14.63	15.26	15.75	17.31
4H	2H	10.21	10.82	11.34	11.93	13.46	12.40	13.00	13.52	14.11	15.65
	3H	11.22	11.73	12.36	12.87	14.41	13.88	14.38	15.01	15.52	17.07
	4H	11.49	11.96	12.63	13.08	14.65	14.39	14.86	15.53	15.98	17.55
	6H	11.61	12.01	12.76	13.16	14.72	14.74	15.14	15.89	16.29	17.85
	8H	11.61	11.99	12.76	13.12	14.70	14.84	15.21	15.98	16.35	17.93
	12H	11.57	11.91	12.73	13.06	14.64	14.88	15.22	16.04	16.37	17.95
8H	4H	11.93	12.30	13.07	13.44	15.02	14.51	14.88	15.65	16.02	17.59
	6H	12.19	12.49	13.35	13.67	15.25	14.93	15.24	16.09	16.42	17.99
	8H	12.23	12.50	13.40	13.66	15.25	15.07	15.34	16.24	16.50	18.10
	12H	12.21	12.44	13.38	13.60	15.23	15.16	15.40	16.33	16.55	18.18
12H	4H	11.93	12.27	13.09	13.42	15.00	14.46	14.80	15.62	15.95	17.53
	6H	12.24	12.51	13.41	13.67	15.27	14.92	15.19	16.09	16.35	17.95
	8H	12.30	12.54	13.48	13.70	15.32	15.07	15.31	16.25	16.47	18.09