

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: P935033

Luminaire Tested: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935033
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-92765-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

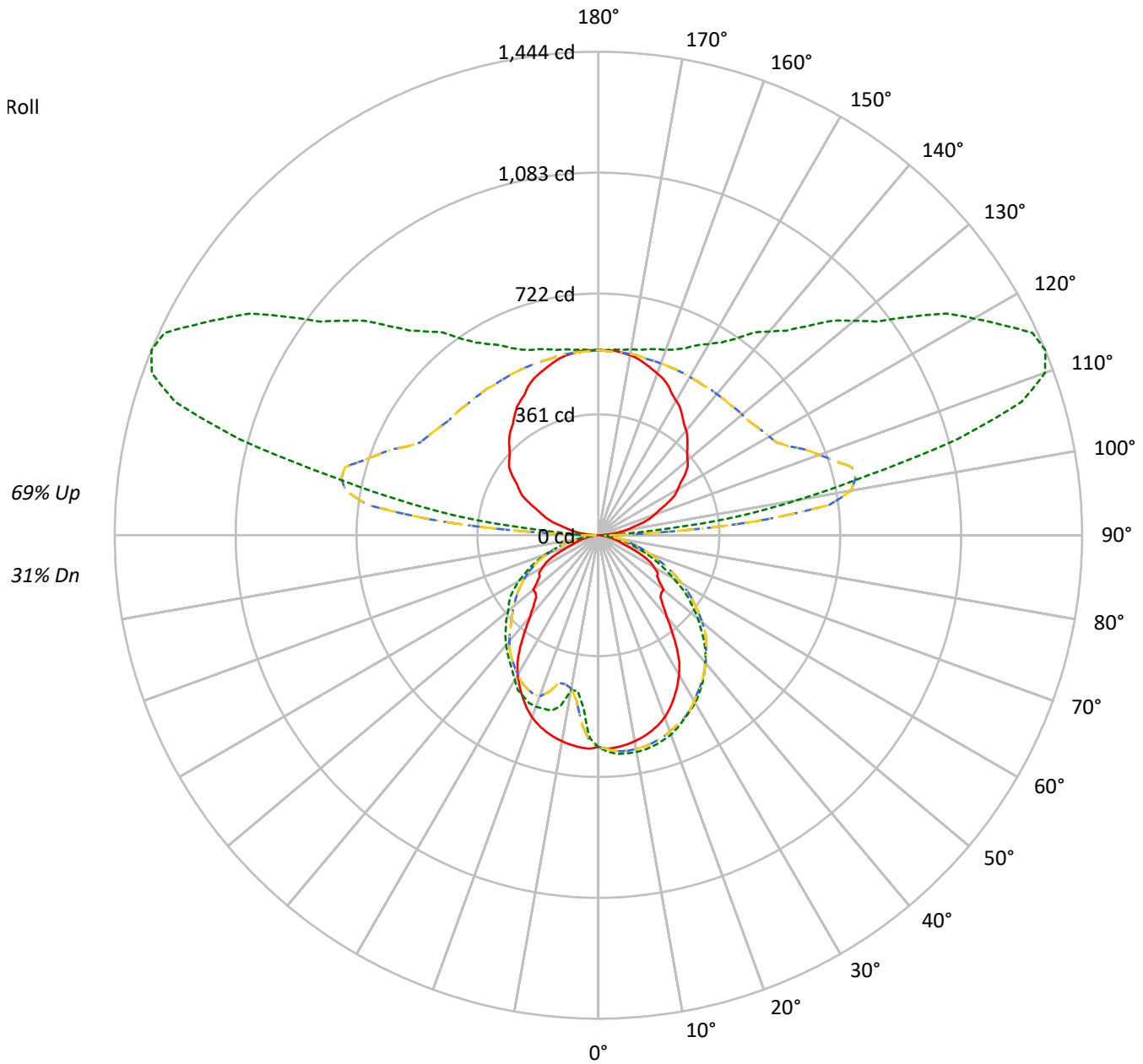
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5229.0 lumens
Efficiency: N/A
Efficacy: 126.9 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: P935033
CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-3500K

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	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°	5872	5872	5872	5872
5°	5908	5927	5908	4660
10°	5863	5838	5863	4175
15°	5792	5713	5792	4770
20°	5665	5562	5665	4780
25°	5410	5343	5410	4678
30°	5084	5162	5084	4456
35°	4526	4933	4526	4212
40°	3763	4663	3763	4027
45°	3357	4346	3357	3814
50°	3559	3969	3559	3601
55°	3338	3563	3338	3478
60°	3430	3026	3430	3186
65°	3093	2502	3093	2796
70°	2127	1994	2127	2345
75°	1843	1474	1843	1765
80°	1460	975	1460	1059
85°	795	515	795	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5155 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	1.1
10°-20°	162.2	3.1
20°-30°	250.7	4.8
30°-40°	299.3	5.7
40°-50°	301.0	5.8
50°-60°	261.9	5.0
60°-70°	185.7	3.6
70°-80°	98.3	1.9
80°-90°	26.6	0.5
90°-100°	269.7	5.2
100°-110°	709.0	13.6
110°-120°	735.1	14.1
120°-130°	589.6	11.3
130°-140°	462.7	8.8
140°-150°	355.1	6.8
150°-160°	255.7	4.9
160°-170°	156.5	3.0
170°-180°	52.9	1.0
0°-30°	470.0	9.0
0°-40°	769.3	14.7
0°-60°	1332.2	25.5
0°-90°	1642.8	31.4
90°-120°	1713.7	32.8
90°-150°	3121.1	59.7
90°-180°	3586.0	68.6
0°-180°	5229.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	633	633	633	633	633	
5°	636	656	636	515	636	60
15°	607	650	607	542	607	171
25°	535	606	535	530	535	245
35°	406	541	406	462	406	251
45°	262	445	262	391	262	210
55°	214	329	214	321	214	196
65°	148	198	148	222	148	142
75°	56	94	56	113	56	59
85°	10	24	10	20	10	13
90°	4	14	4	14	4	3
95°	36	163	36	163	36	40
105°	128	1110	128	1110	128	135
115°	227	1429	227	1429	227	224
125°	316	1138	316	1138	316	280
135°	376	883	376	883	376	291
145°	436	717	436	717	436	273
155°	493	617	493	617	493	227
165°	532	575	532	575	532	150
175°	553	557	553	557	553	53
180°	553	553	553	553	553	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8
2.5°	638.1	638.1	641.7	643.0	643.0	641.2	639.4	641.2	646.5	648.3	647.7
5°	635.7	640.5	647.1	648.3	649.6	648.9	647.7	648.9	654.9	656.1	656.7
7.5°	631.0	639.9	648.3	650.1	651.9	650.1	649.6	650.7	656.7	657.9	657.9
10°	625.0	637.5	647.1	648.3	650.1	648.3	648.3	650.7	656.7	657.9	658.5
12.5°	616.6	633.9	643.0	644.1	646.5	645.9	645.4	647.7	653.8	654.9	654.9
15°	607.0	627.3	635.7	637.0	641.2	639.9	639.9	642.3	648.9	650.7	650.1
17.5°	593.9	619.0	628.6	630.4	633.4	632.8	633.4	635.7	641.7	643.0	643.6
20°	578.9	607.6	619.0	620.8	623.8	623.8	623.8	626.8	632.8	635.2	635.2
22.5°	558.5	595.6	607.6	608.9	612.4	612.4	613.6	617.8	623.1	623.8	623.8
25°	534.6	582.4	592.6	596.3	599.8	601.6	603.4	605.8	607.6	607.0	607.6
27.5°	509.4	565.7	578.9	581.3	586.1	587.9	590.3	590.8	591.5	593.2	592.1
30°	481.3	542.4	562.1	564.5	572.3	573.5	571.1	572.3	575.3	576.5	577.7
32.5°	449.6	507.6	544.8	550.1	557.4	553.8	553.2	554.9	559.8	559.8	560.9
35°	406.5	480.7	528.6	533.4	538.8	534.6	537.0	537.5	540.6	542.4	541.7
37.5°	359.2	457.4	511.8	515.4	519.6	514.2	517.8	519.6	522.0	520.8	520.8
40°	317.2	420.9	492.1	494.5	498.1	493.9	497.5	498.7	499.9	498.7	498.1
42.5°	286.2	380.7	471.1	474.2	471.7	474.7	475.9	478.4	476.5	474.2	474.2
45°	262.2	370.0	448.4	451.9	448.4	453.2	455.0	455.0	449.6	448.4	447.7
47.5°	254.4	348.4	425.6	425.6	423.8	429.8	432.8	428.6	423.3	421.4	421.4
50°	253.9	324.5	394.5	392.1	400.5	407.7	404.7	400.5	396.3	389.7	389.7
52.5°	230.5	295.1	354.4	363.4	376.5	380.7	376.0	371.8	364.5	361.6	359.2
55°	213.7	264.6	317.9	335.8	349.6	355.0	346.0	341.8	331.1	329.3	328.0
57.5°	210.1	220.3	284.4	307.1	323.8	323.3	317.9	310.1	301.1	299.3	298.8
60°	192.8	159.2	248.4	275.4	292.7	290.9	286.2	278.9	270.6	269.4	268.2
62.5°	174.8	115.5	207.7	238.2	262.8	262.2	258.1	247.3	241.3	238.2	235.8
65°	148.4	96.9	147.9	198.2	233.5	234.7	225.7	217.9	211.3	207.7	207.1
67.5°	113.2	79.0	100.0	165.2	205.3	204.1	192.8	189.1	180.8	179.0	175.4
70°	83.8	52.7	69.4	134.1	177.8	174.8	165.8	161.7	153.9	149.7	147.3
72.5°	69.4	42.5	50.9	104.2	149.7	146.0	138.3	133.5	126.9	123.4	121.0
75°	56.2	44.9	38.9	77.2	121.5	119.2	111.9	107.1	101.8	96.9	97.6
77.5°	41.3	41.9	31.2	56.9	96.4	92.8	88.6	82.7	80.2	75.4	75.4
80°	31.2	32.9	23.4	38.9	69.4	69.4	65.9	61.7	57.5	55.1	55.1
82.5°	21.0	21.0	17.3	24.5	47.3	45.5	43.1	41.9	39.5	38.3	38.3
85°	9.6	12.0	10.8	15.0	25.7	27.0	27.0	25.7	25.2	23.9	24.5
87.5°	3.0	5.4	6.6	8.4	13.2	13.7	14.4	14.4	14.4	15.0	15.0
90°	3.7	6.7	9.6	10.4	16.3	24.3	28.2	25.1	18.8	14.1	14.1
92.5°	14.8	40.1	65.3	71.7	100.8	139.5	158.9	139.2	100.0	70.5	67.7
95°	35.6	81.9	128.1	139.6	247.9	392.2	464.4	414.4	314.5	239.5	231.0
97.5°	61.6	102.4	143.2	153.4	333.9	574.7	695.0	663.4	600.2	552.8	536.6
100°	81.7	118.6	155.6	164.9	365.3	632.4	766.0	768.3	772.8	776.3	757.0
102.5°	98.7	133.3	167.7	176.4	379.6	650.5	786.0	826.3	906.8	967.2	950.6
105°	127.7	156.9	186.1	193.4	390.3	652.6	783.8	874.1	1054.5	1190.0	1181.1
107.5°	157.5	184.7	211.9	218.7	392.2	623.5	739.2	865.1	1116.9	1305.8	1308.0
110°	177.5	202.1	226.6	232.8	389.2	597.8	702.0	842.8	1124.3	1335.4	1344.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	197.2	220.6	244.0	249.8	389.4	575.3	668.3	812.4	1100.4	1316.5	1330.7
115°	226.8	248.4	270.0	275.5	392.9	549.6	627.9	766.7	1044.2	1252.3	1272.0
117.5°	256.2	275.8	295.5	300.4	400.3	533.4	600.0	725.3	975.7	1163.6	1185.4
120°	273.2	291.7	310.2	314.8	406.1	528.0	588.9	703.3	932.2	1103.8	1125.1
122.5°	290.0	308.7	327.3	332.0	414.7	525.1	580.3	683.3	889.4	1044.0	1064.9
125°	315.6	332.6	349.5	353.8	426.2	522.7	571.0	658.6	833.6	964.9	984.2
127.5°	336.3	353.5	370.7	375.0	437.7	521.4	563.2	638.4	788.7	901.5	917.7
130°	347.5	366.0	384.5	389.1	446.1	522.3	560.3	627.2	761.0	861.4	876.4
132.5°	359.0	377.5	396.0	400.6	452.9	522.7	557.6	617.5	737.3	827.2	840.7
135°	376.2	392.9	409.8	414.0	460.4	522.3	553.2	603.4	703.7	778.9	790.5
137.5°	393.6	410.2	426.9	431.0	471.5	525.5	552.4	594.8	679.6	743.3	752.7
140°	408.0	423.4	438.7	442.6	478.4	526.0	549.9	586.5	659.7	714.7	723.6
142.5°	419.2	433.4	447.6	451.1	484.1	527.9	549.9	582.0	646.3	694.6	702.3
145°	436.2	448.6	460.9	464.1	491.5	528.0	546.2	572.5	625.1	664.6	670.4
147.5°	453.4	465.4	477.4	480.4	502.4	531.6	546.2	566.9	608.3	639.4	644.2
150°	464.4	475.3	486.2	489.0	508.1	533.5	546.2	563.7	598.6	624.8	628.7
152.5°	475.9	484.2	492.5	494.5	511.7	534.7	546.2	561.1	590.9	613.3	616.3
155°	493.1	499.2	505.3	506.8	520.0	537.4	546.2	558.1	581.8	599.6	601.5
157.5°	505.7	511.6	517.5	519.1	528.1	540.1	546.2	555.4	573.9	587.7	589.0
160°	514.2	518.9	523.4	524.6	531.8	541.4	546.2	554.1	569.9	581.8	582.6
162.5°	522.7	526.2	529.7	530.6	535.8	542.7	546.2	552.9	566.2	576.2	576.9
165°	532.0	535.1	538.2	539.1	541.5	544.6	546.2	551.0	560.6	567.7	568.5
167.5°	540.6	542.1	543.6	544.0	545.9	548.5	549.9	553.0	559.2	564.0	564.3
170°	546.2	547.6	549.1	549.5	549.6	549.8	549.9	553.0	559.2	564.0	564.0
172.5°	549.1	549.5	549.8	549.9	549.9	549.9	549.9	552.4	557.3	561.0	560.7
175°	553.2	553.2	553.2	553.2	552.1	550.6	549.9	551.5	554.6	556.9	556.9
177.5°	553.2	553.2	553.2	553.2	552.4	551.2	550.6	551.8	554.3	556.2	555.8
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8
2.5°	648.9	647.1	648.9	647.7	648.3	646.5	641.2	639.4	641.2	643.0	643.0
5°	656.7	655.5	656.7	656.7	656.1	654.9	648.9	647.7	648.9	649.6	648.3
7.5°	659.1	657.3	659.1	657.9	657.9	656.7	650.7	649.6	650.1	651.9	650.1
10°	659.1	657.3	659.1	658.5	657.9	656.7	650.7	648.3	648.3	650.1	648.3
12.5°	656.1	654.9	656.1	654.9	654.9	653.8	647.7	645.4	645.9	646.5	644.1
15°	651.3	649.6	651.3	650.1	650.7	648.9	642.3	639.9	639.9	641.2	637.0
17.5°	644.1	641.7	644.1	643.6	643.0	641.7	635.7	633.4	632.8	633.4	630.4
20°	635.7	633.9	635.7	635.2	635.2	632.8	626.8	623.8	623.8	623.8	620.8
22.5°	622.6	620.8	622.6	623.8	623.8	623.1	617.8	613.6	612.4	612.4	608.9
25°	607.6	605.8	607.6	607.6	607.0	607.6	605.8	603.4	601.6	599.8	596.3
27.5°	593.2	592.1	593.2	592.1	593.2	591.5	590.8	590.3	587.9	586.1	581.3
30°	578.9	577.7	578.9	577.7	576.5	575.3	572.3	571.1	573.5	572.3	564.5
32.5°	560.9	559.8	560.9	560.9	559.8	559.8	554.9	553.2	553.8	557.4	550.1
35°	542.4	540.6	542.4	541.7	542.4	540.6	537.5	537.0	534.6	538.8	533.4
37.5°	520.8	519.1	520.8	520.8	520.8	522.0	519.6	517.8	514.2	519.6	515.4
40°	498.7	496.3	498.7	498.1	498.7	499.9	498.7	497.5	493.9	498.1	494.5
42.5°	473.5	472.9	473.5	474.2	474.2	476.5	478.4	475.9	474.7	471.7	474.2
45°	446.6	445.4	446.6	447.7	448.4	449.6	455.0	455.0	453.2	448.4	451.9
47.5°	417.8	414.9	417.8	421.4	421.4	423.3	428.6	432.8	429.8	423.8	425.6
50°	387.3	387.9	387.3	389.7	389.7	396.3	400.5	404.7	407.7	400.5	392.1
52.5°	357.4	356.8	357.4	359.2	361.6	364.5	371.8	376.0	380.7	376.5	363.4
55°	327.4	328.7	327.4	328.0	329.3	331.1	341.8	346.0	355.0	349.6	335.8
57.5°	297.5	295.7	297.5	298.8	299.3	301.1	310.1	317.9	323.3	323.8	307.1
60°	262.8	260.4	262.8	268.2	269.4	270.6	278.9	286.2	290.9	292.7	275.4
62.5°	232.3	228.1	232.3	235.8	238.2	241.3	247.3	258.1	262.2	262.8	238.2
65°	199.9	198.2	199.9	207.1	207.7	211.3	217.9	225.7	234.7	233.5	198.2
67.5°	170.6	170.6	170.6	175.4	179.0	180.8	189.1	192.8	204.1	205.3	165.2
70°	143.7	143.1	143.7	147.3	149.7	153.9	161.7	165.8	174.8	177.8	134.1
72.5°	117.9	117.3	117.9	121.0	123.4	126.9	133.5	138.3	146.0	149.7	104.2
75°	95.2	94.0	95.2	97.6	96.9	101.8	107.1	111.9	119.2	121.5	77.2
77.5°	73.0	73.0	73.0	75.4	75.4	80.2	82.7	88.6	92.8	96.4	56.9
80°	54.4	53.9	54.4	55.1	55.1	57.5	61.7	65.9	69.4	69.4	38.9
82.5°	38.3	37.1	38.3	38.3	38.3	39.5	41.9	43.1	45.5	47.3	24.5
85°	23.9	23.9	23.9	24.5	23.9	25.2	25.7	27.0	27.0	25.7	15.0
87.5°	15.5	15.0	15.5	15.0	15.0	14.4	14.4	14.4	13.7	13.2	8.4
90°	14.1	14.1	14.1	14.1	14.1	18.8	25.1	28.2	24.3	16.3	10.4
92.5°	56.5	45.3	56.5	67.7	70.5	100.0	139.2	158.9	139.5	100.8	71.7
95°	197.0	163.0	197.0	231.0	239.5	314.5	414.4	464.4	392.2	247.9	139.6
97.5°	471.9	407.3	471.9	536.6	552.8	600.2	663.4	695.0	574.7	333.9	153.4
100°	680.0	603.0	680.0	757.0	776.3	772.8	768.3	766.0	632.4	365.3	164.9
102.5°	884.7	818.7	884.7	950.6	967.2	906.8	826.3	786.0	650.5	379.6	176.4
105°	1145.6	1110.2	1145.6	1181.1	1190.0	1054.5	874.1	783.8	652.6	390.3	193.4
107.5°	1316.5	1325.1	1316.5	1308.0	1305.8	1116.9	865.1	739.2	623.5	392.2	218.7
110°	1381.7	1418.6	1381.7	1344.7	1335.4	1124.3	842.8	702.0	597.8	389.2	232.8



TEST NUMBER: P935033

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1387.5	1444.3	1387.5	1330.7	1316.5	1100.4	812.4	668.3	575.3	389.4	249.8
115°	1350.7	1429.4	1350.7	1272.0	1252.3	1044.2	766.7	627.9	549.6	392.9	275.5
117.5°	1272.7	1360.0	1272.7	1185.4	1163.6	975.7	725.3	600.0	533.4	400.3	300.4
120°	1209.9	1294.7	1209.9	1125.1	1103.8	932.2	703.3	588.9	528.0	406.1	314.8
122.5°	1148.6	1232.3	1148.6	1064.9	1044.0	889.4	683.3	580.3	525.1	414.7	332.0
125°	1061.2	1138.4	1061.2	984.2	964.9	833.6	658.6	571.0	522.7	426.2	353.8
127.5°	982.8	1047.8	982.8	917.7	901.5	788.7	638.4	563.2	521.4	437.7	375.0
130°	936.4	996.5	936.4	876.4	861.4	761.0	627.2	560.3	522.3	446.1	389.1
132.5°	894.4	948.2	894.4	840.7	827.2	737.3	617.5	557.6	522.7	452.9	400.6
135°	836.8	883.2	836.8	790.5	778.9	703.7	603.4	553.2	522.3	460.4	414.0
137.5°	790.8	828.7	790.8	752.7	743.3	679.6	594.8	552.4	525.5	471.5	431.0
140°	759.1	794.5	759.1	723.6	714.7	659.7	586.5	549.9	526.0	478.4	442.6
142.5°	732.8	763.4	732.8	702.3	694.6	646.3	582.0	549.9	527.9	484.1	451.1
145°	693.5	716.6	693.5	670.4	664.6	625.1	572.5	546.2	528.0	491.5	464.1
147.5°	663.3	682.4	663.3	644.2	639.4	608.3	566.9	546.2	531.6	502.4	480.4
150°	644.2	659.7	644.2	628.7	624.8	598.6	563.7	546.2	533.5	508.1	489.0
152.5°	628.0	639.7	628.0	616.3	613.3	590.9	561.1	546.2	534.7	511.7	494.5
155°	609.3	617.1	609.3	601.5	599.6	581.8	558.1	546.2	537.4	520.0	506.8
157.5°	594.6	600.0	594.6	589.0	587.7	573.9	555.4	546.2	540.1	528.1	519.1
160°	585.7	588.9	585.7	582.6	581.8	569.9	554.1	546.2	541.4	531.8	524.6
162.5°	579.9	582.9	579.9	576.9	576.2	566.2	552.9	546.2	542.7	535.8	530.6
165°	571.6	574.8	571.6	568.5	567.7	560.6	551.0	546.2	544.6	541.5	539.1
167.5°	565.6	566.9	565.6	564.3	564.0	559.2	553.0	549.9	548.5	545.9	544.0
170°	564.0	564.0	564.0	564.0	564.0	559.2	553.0	549.9	549.8	549.6	549.5
172.5°	559.6	558.4	559.6	560.7	561.0	557.3	552.4	549.9	549.9	549.9	549.9
175°	556.9	556.9	556.9	556.9	556.9	554.6	551.5	549.9	550.6	552.1	553.2
177.5°	554.6	553.2	554.6	555.8	556.2	554.3	551.8	550.6	551.2	552.4	553.2
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



TEST NUMBER: P935033

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8
2.5°	641.7	638.1	638.1	632.2	629.7	628.0	625.0	616.0	613.6	611.2	614.8
5°	647.1	640.5	635.7	625.0	616.0	612.4	601.0	579.5	565.1	554.3	548.3
7.5°	648.3	639.9	631.0	614.2	592.6	583.1	548.3	508.9	498.1	488.5	482.5
10°	647.1	637.5	625.0	599.8	549.0	532.2	497.5	471.7	465.1	463.4	465.1
12.5°	643.0	633.9	616.6	574.7	503.4	492.1	471.7	456.8	455.6	458.5	474.7
15°	635.7	627.3	607.0	541.2	478.4	470.0	455.6	450.1	456.8	477.7	526.2
17.5°	628.6	619.0	593.9	508.3	459.2	453.2	443.0	453.8	490.9	519.1	535.2
20°	619.0	607.6	578.9	484.3	445.4	440.0	435.2	483.7	511.8	522.0	531.0
22.5°	607.6	595.6	558.5	467.6	431.0	426.9	429.8	500.5	511.8	519.1	526.8
25°	592.6	582.4	534.6	454.3	419.6	414.9	426.2	498.7	505.2	507.0	522.6
27.5°	578.9	565.7	509.4	442.4	405.9	404.1	429.3	490.9	495.7	497.5	514.2
30°	562.1	542.4	481.3	429.8	391.5	390.9	429.8	481.3	480.1	484.9	501.7
32.5°	544.8	507.6	449.6	414.3	377.8	377.1	425.6	466.9	465.8	472.3	484.9
35°	528.6	480.7	406.5	396.3	360.4	361.0	415.4	450.1	450.8	456.8	464.5
37.5°	511.8	457.4	359.2	376.5	343.7	343.7	401.7	434.6	433.5	435.2	446.0
40°	492.1	420.9	317.2	350.8	328.0	326.3	384.9	417.8	413.6	413.1	428.0
42.5°	471.1	380.7	286.2	316.7	310.1	307.7	364.5	397.5	389.7	391.5	410.7
45°	448.4	370.0	262.2	267.6	291.5	289.7	342.4	374.2	368.7	373.6	393.3
47.5°	425.6	348.4	254.4	222.1	271.8	271.2	317.9	351.4	348.4	353.2	374.2
50°	394.5	324.5	253.9	190.4	249.7	252.0	288.6	329.3	329.3	333.5	355.6
52.5°	354.4	295.1	230.5	172.4	223.9	231.1	262.8	310.1	311.3	315.5	335.3
55°	317.9	264.6	213.7	158.6	193.3	209.0	237.6	290.4	292.7	296.9	314.9
57.5°	284.4	220.3	210.1	142.5	165.2	180.2	215.5	271.2	272.3	276.0	293.3
60°	248.4	159.2	192.8	125.1	140.7	152.0	195.1	248.4	252.6	255.0	270.0
62.5°	207.7	115.5	174.8	113.2	128.7	131.1	178.4	226.9	232.3	234.0	243.1
65°	147.9	96.9	148.4	103.0	116.1	116.8	160.4	204.8	209.5	212.5	219.1
67.5°	100.0	79.0	113.2	93.4	106.6	107.1	143.1	179.0	185.6	188.0	192.2
70°	69.4	52.7	83.8	83.2	95.8	96.9	124.5	155.7	161.7	163.4	165.8
72.5°	50.9	42.5	69.4	74.8	84.4	85.6	105.3	129.3	135.3	137.1	138.3
75°	38.9	44.9	56.2	65.3	71.9	72.4	86.2	105.3	109.5	110.8	111.3
77.5°	31.2	41.9	41.3	52.7	58.6	57.5	67.7	81.4	85.0	85.0	85.0
80°	23.4	32.9	31.2	37.8	43.1	41.9	48.5	58.1	59.3	60.4	59.9
82.5°	17.3	21.0	21.0	23.9	28.7	27.6	32.3	37.8	37.8	37.8	38.9
85°	10.8	12.0	9.6	12.6	16.2	15.5	17.9	20.4	21.0	21.0	19.7
87.5°	6.6	5.4	3.0	4.8	7.1	7.1	8.4	9.0	8.4	8.4	8.4
90°	9.6	6.7	3.7	6.7	9.6	10.4	16.3	24.3	28.2	25.1	18.8
92.5°	65.3	40.1	14.8	40.1	65.3	71.7	100.8	139.5	158.9	139.2	100.0
95°	128.1	81.9	35.6	81.9	128.1	139.6	247.9	392.2	464.4	414.4	314.5
97.5°	143.2	102.4	61.6	102.4	143.2	153.4	333.9	574.7	695.0	663.4	600.2
100°	155.6	118.6	81.7	118.6	155.6	164.9	365.3	632.4	766.0	768.3	772.8
102.5°	167.7	133.3	98.7	133.3	167.7	176.4	379.6	650.5	786.0	826.3	906.8
105°	186.1	156.9	127.7	156.9	186.1	193.4	390.3	652.6	783.8	874.1	1054.5
107.5°	211.9	184.7	157.5	184.7	211.9	218.7	392.2	623.5	739.2	865.1	1116.9
110°	226.6	202.1	177.5	202.1	226.6	232.8	389.2	597.8	702.0	842.8	1124.3



TEST NUMBER: P935033

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	244.0	220.6	197.2	220.6	244.0	249.8	389.4	575.3	668.3	812.4	1100.4
115°	270.0	248.4	226.8	248.4	270.0	275.5	392.9	549.6	627.9	766.7	1044.2
117.5°	295.5	275.8	256.2	275.8	295.5	300.4	400.3	533.4	600.0	725.3	975.7
120°	310.2	291.7	273.2	291.7	310.2	314.8	406.1	528.0	588.9	703.3	932.2
122.5°	327.3	308.7	290.0	308.7	327.3	332.0	414.7	525.1	580.3	683.3	889.4
125°	349.5	332.6	315.6	332.6	349.5	353.8	426.2	522.7	571.0	658.6	833.6
127.5°	370.7	353.5	336.3	353.5	370.7	375.0	437.7	521.4	563.2	638.4	788.7
130°	384.5	366.0	347.5	366.0	384.5	389.1	446.1	522.3	560.3	627.2	761.0
132.5°	396.0	377.5	359.0	377.5	396.0	400.6	452.9	522.7	557.6	617.5	737.3
135°	409.8	392.9	376.2	392.9	409.8	414.0	460.4	522.3	553.2	603.4	703.7
137.5°	426.9	410.2	393.6	410.2	426.9	431.0	471.5	525.5	552.4	594.8	679.6
140°	438.7	423.4	408.0	423.4	438.7	442.6	478.4	526.0	549.9	586.5	659.7
142.5°	447.6	433.4	419.2	433.4	447.6	451.1	484.1	527.9	549.9	582.0	646.3
145°	460.9	448.6	436.2	448.6	460.9	464.1	491.5	528.0	546.2	572.5	625.1
147.5°	477.4	465.4	453.4	465.4	477.4	480.4	502.4	531.6	546.2	566.9	608.3
150°	486.2	475.3	464.4	475.3	486.2	489.0	508.1	533.5	546.2	563.7	598.6
152.5°	492.5	484.2	475.9	484.2	492.5	494.5	511.7	534.7	546.2	561.1	590.9
155°	505.3	499.2	493.1	499.2	505.3	506.8	520.0	537.4	546.2	558.1	581.8
157.5°	517.5	511.6	505.7	511.6	517.5	519.1	528.1	540.1	546.2	555.4	573.9
160°	523.4	518.9	514.2	518.9	523.4	524.6	531.8	541.4	546.2	554.1	569.9
162.5°	529.7	526.2	522.7	526.2	529.7	530.6	535.8	542.7	546.2	552.9	566.2
165°	538.2	535.1	532.0	535.1	538.2	539.1	541.5	544.6	546.2	551.0	560.6
167.5°	543.6	542.1	540.6	542.1	543.6	544.0	545.9	548.5	549.9	553.0	559.2
170°	549.1	547.6	546.2	547.6	549.1	549.5	549.6	549.8	549.9	553.0	559.2
172.5°	549.8	549.5	549.1	549.5	549.8	549.9	549.9	549.9	549.9	552.4	557.3
175°	553.2	553.2	553.2	553.2	553.2	553.2	552.1	550.6	549.9	551.5	554.6
177.5°	553.2	553.2	553.2	553.2	553.2	553.2	552.4	551.2	550.6	551.8	554.3
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



TEST NUMBER: P935033

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8	632.8
2.5°	610.6	608.9	611.2	604.7	611.2	608.9	610.6	614.8	611.2	613.6	616.0
5°	535.8	532.8	523.3	515.4	523.3	532.8	535.8	548.3	554.3	565.1	579.5
7.5°	478.9	476.5	474.2	469.3	474.2	476.5	478.9	482.5	488.5	498.1	508.9
10°	466.3	466.9	470.5	470.0	470.5	466.9	466.3	465.1	463.4	465.1	471.7
12.5°	498.7	504.1	523.8	522.6	523.8	504.1	498.7	474.7	458.5	455.6	456.8
15°	535.8	537.5	541.7	542.4	541.7	537.5	535.8	526.2	477.7	456.8	450.1
17.5°	539.4	539.9	543.0	543.0	543.0	539.9	539.4	535.2	519.1	490.9	453.8
20°	536.4	537.5	543.6	544.8	543.6	537.5	536.4	531.0	522.0	511.8	483.7
22.5°	535.2	537.5	542.4	541.7	542.4	537.5	535.2	526.8	519.1	511.8	500.5
25°	529.2	529.2	529.8	530.4	529.8	529.2	529.2	522.6	507.0	505.2	498.7
27.5°	516.6	517.8	521.4	520.8	521.4	517.8	516.6	514.2	497.5	495.7	490.9
30°	505.2	504.1	501.0	498.7	501.0	504.1	505.2	501.7	484.9	480.1	481.3
32.5°	486.1	483.1	480.1	478.4	480.1	483.1	486.1	484.9	472.3	465.8	466.9
35°	463.4	464.0	463.4	461.6	463.4	464.0	463.4	464.5	456.8	450.8	450.1
37.5°	447.2	448.4	447.7	445.4	447.7	448.4	447.2	446.0	435.2	433.5	434.6
40°	430.4	431.0	430.4	428.6	430.4	431.0	430.4	428.0	413.1	413.6	417.8
42.5°	414.3	413.6	411.9	410.7	411.9	413.6	414.3	410.7	391.5	389.7	397.5
45°	395.7	396.3	392.7	390.9	392.7	396.3	395.7	393.3	373.6	368.7	374.2
47.5°	377.1	377.1	374.2	372.3	374.2	377.1	377.1	374.2	353.2	348.4	351.4
50°	357.4	356.8	352.6	352.0	352.6	356.8	357.4	355.6	333.5	329.3	329.3
52.5°	334.6	334.6	335.3	336.4	335.3	334.6	334.6	335.3	315.5	311.3	310.1
55°	314.9	315.5	319.6	320.9	319.6	315.5	314.9	314.9	296.9	292.7	290.4
57.5°	294.6	294.6	297.5	297.5	297.5	294.6	294.6	293.3	276.0	272.3	271.2
60°	271.2	272.3	274.7	274.2	274.7	272.3	271.2	270.0	255.0	252.6	248.4
62.5°	246.6	247.9	248.4	247.3	248.4	247.9	246.6	243.1	234.0	232.3	226.9
65°	220.9	222.1	222.7	221.5	222.7	222.1	220.9	219.1	212.5	209.5	204.8
67.5°	194.6	194.0	193.3	195.8	193.3	194.0	194.6	192.2	188.0	185.6	179.0
70°	167.6	167.6	167.0	168.3	167.0	167.6	167.6	165.8	163.4	161.7	155.7
72.5°	138.9	138.3	140.7	138.9	140.7	138.3	138.9	138.3	137.1	135.3	129.3
75°	110.8	111.9	110.8	112.6	110.8	111.9	110.8	111.3	110.8	109.5	105.3
77.5°	84.4	85.6	84.4	84.4	84.4	85.6	84.4	85.0	85.0	85.0	81.4
80°	59.9	59.3	59.3	58.6	59.3	59.3	59.9	59.9	60.4	59.3	58.1
82.5°	38.3	37.8	37.8	38.9	37.8	37.8	38.3	38.9	37.8	37.8	37.8
85°	21.0	21.5	20.4	20.4	20.4	21.5	21.0	19.7	21.0	21.0	20.4
87.5°	7.8	7.1	7.1	7.1	7.1	7.1	7.8	8.4	8.4	8.4	9.0
90°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	18.8	25.1	28.2	24.3
92.5°	70.5	67.7	56.5	45.3	56.5	67.7	70.5	100.0	139.2	158.9	139.5
95°	239.5	231.0	197.0	163.0	197.0	231.0	239.5	314.5	414.4	464.4	392.2
97.5°	552.8	536.6	471.9	407.3	471.9	536.6	552.8	600.2	663.4	695.0	574.7
100°	776.3	757.0	680.0	603.0	680.0	757.0	776.3	772.8	768.3	766.0	632.4
102.5°	967.2	950.6	884.7	818.7	884.7	950.6	967.2	906.8	826.3	786.0	650.5
105°	1190.0	1181.1	1145.6	1110.2	1145.6	1181.1	1190.0	1054.5	874.1	783.8	652.6
107.5°	1305.8	1308.0	1316.5	1325.1	1316.5	1308.0	1305.8	1116.9	865.1	739.2	623.5
110°	1335.4	1344.7	1381.7	1418.6	1381.7	1344.7	1335.4	1124.3	842.8	702.0	597.8



TEST NUMBER: P935033

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1316.5	1330.7	1387.5	1444.3	1387.5	1330.7	1316.5	1100.4	812.4	668.3	575.3
115°	1252.3	1272.0	1350.7	1429.4	1350.7	1272.0	1252.3	1044.2	766.7	627.9	549.6
117.5°	1163.6	1185.4	1272.7	1360.0	1272.7	1185.4	1163.6	975.7	725.3	600.0	533.4
120°	1103.8	1125.1	1209.9	1294.7	1209.9	1125.1	1103.8	932.2	703.3	588.9	528.0
122.5°	1044.0	1064.9	1148.6	1232.3	1148.6	1064.9	1044.0	889.4	683.3	580.3	525.1
125°	964.9	984.2	1061.2	1138.4	1061.2	984.2	964.9	833.6	658.6	571.0	522.7
127.5°	901.5	917.7	982.8	1047.8	982.8	917.7	901.5	788.7	638.4	563.2	521.4
130°	861.4	876.4	936.4	996.5	936.4	876.4	861.4	761.0	627.2	560.3	522.3
132.5°	827.2	840.7	894.4	948.2	894.4	840.7	827.2	737.3	617.5	557.6	522.7
135°	778.9	790.5	836.8	883.2	836.8	790.5	778.9	703.7	603.4	553.2	522.3
137.5°	743.3	752.7	790.8	828.7	790.8	752.7	743.3	679.6	594.8	552.4	525.5
140°	714.7	723.6	759.1	794.5	759.1	723.6	714.7	659.7	586.5	549.9	526.0
142.5°	694.6	702.3	732.8	763.4	732.8	702.3	694.6	646.3	582.0	549.9	527.9
145°	664.6	670.4	693.5	716.6	693.5	670.4	664.6	625.1	572.5	546.2	528.0
147.5°	639.4	644.2	663.3	682.4	663.3	644.2	639.4	608.3	566.9	546.2	531.6
150°	624.8	628.7	644.2	659.7	644.2	628.7	624.8	598.6	563.7	546.2	533.5
152.5°	613.3	616.3	628.0	639.7	628.0	616.3	613.3	590.9	561.1	546.2	534.7
155°	599.6	601.5	609.3	617.1	609.3	601.5	599.6	581.8	558.1	546.2	537.4
157.5°	587.7	589.0	594.6	600.0	594.6	589.0	587.7	573.9	555.4	546.2	540.1
160°	581.8	582.6	585.7	588.9	585.7	582.6	581.8	569.9	554.1	546.2	541.4
162.5°	576.2	576.9	579.9	582.9	579.9	576.9	576.2	566.2	552.9	546.2	542.7
165°	567.7	568.5	571.6	574.8	571.6	568.5	567.7	560.6	551.0	546.2	544.6
167.5°	564.0	564.3	565.6	566.9	565.6	564.3	564.0	559.2	553.0	549.9	548.5
170°	564.0	564.0	564.0	564.0	564.0	564.0	564.0	559.2	553.0	549.9	549.8
172.5°	561.0	560.7	559.6	558.4	559.6	560.7	561.0	557.3	552.4	549.9	549.9
175°	556.9	556.9	556.9	556.9	556.9	556.9	556.9	554.6	551.5	549.9	550.6
177.5°	556.2	555.8	554.6	553.2	554.6	555.8	556.2	554.3	551.8	550.6	551.2
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	632.8	632.8	632.8	632.8	632.8
2.5°	625.0	628.0	629.7	632.2	638.1
5°	601.0	612.4	616.0	625.0	635.7
7.5°	548.3	583.1	592.6	614.2	631.0
10°	497.5	532.2	549.0	599.8	625.0
12.5°	471.7	492.1	503.4	574.7	616.6
15°	455.6	470.0	478.4	541.2	607.0
17.5°	443.0	453.2	459.2	508.3	593.9
20°	435.2	440.0	445.4	484.3	578.9
22.5°	429.8	426.9	431.0	467.6	558.5
25°	426.2	414.9	419.6	454.3	534.6
27.5°	429.3	404.1	405.9	442.4	509.4
30°	429.8	390.9	391.5	429.8	481.3
32.5°	425.6	377.1	377.8	414.3	449.6
35°	415.4	361.0	360.4	396.3	406.5
37.5°	401.7	343.7	343.7	376.5	359.2
40°	384.9	326.3	328.0	350.8	317.2
42.5°	364.5	307.7	310.1	316.7	286.2
45°	342.4	289.7	291.5	267.6	262.2
47.5°	317.9	271.2	271.8	222.1	254.4
50°	288.6	252.0	249.7	190.4	253.9
52.5°	262.8	231.1	223.9	172.4	230.5
55°	237.6	209.0	193.3	158.6	213.7
57.5°	215.5	180.2	165.2	142.5	210.1
60°	195.1	152.0	140.7	125.1	192.8
62.5°	178.4	131.1	128.7	113.2	174.8
65°	160.4	116.8	116.1	103.0	148.4
67.5°	143.1	107.1	106.6	93.4	113.2
70°	124.5	96.9	95.8	83.2	83.8
72.5°	105.3	85.6	84.4	74.8	69.4
75°	86.2	72.4	71.9	65.3	56.2
77.5°	67.7	57.5	58.6	52.7	41.3
80°	48.5	41.9	43.1	37.8	31.2
82.5°	32.3	27.6	28.7	23.9	21.0
85°	17.9	15.5	16.2	12.6	9.6
87.5°	8.4	7.1	7.1	4.8	3.0
90°	16.3	10.4	9.6	6.7	3.7
92.5°	100.8	71.7	65.3	40.1	14.8
95°	247.9	139.6	128.1	81.9	35.6
97.5°	333.9	153.4	143.2	102.4	61.6
100°	365.3	164.9	155.6	118.6	81.7
102.5°	379.6	176.4	167.7	133.3	98.7
105°	390.3	193.4	186.1	156.9	127.7
107.5°	392.2	218.7	211.9	184.7	157.5
110°	389.2	232.8	226.6	202.1	177.5



TEST NUMBER: P935033

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	389.4	249.8	244.0	220.6	197.2
115°	392.9	275.5	270.0	248.4	226.8
117.5°	400.3	300.4	295.5	275.8	256.2
120°	406.1	314.8	310.2	291.7	273.2
122.5°	414.7	332.0	327.3	308.7	290.0
125°	426.2	353.8	349.5	332.6	315.6
127.5°	437.7	375.0	370.7	353.5	336.3
130°	446.1	389.1	384.5	366.0	347.5
132.5°	452.9	400.6	396.0	377.5	359.0
135°	460.4	414.0	409.8	392.9	376.2
137.5°	471.5	431.0	426.9	410.2	393.6
140°	478.4	442.6	438.7	423.4	408.0
142.5°	484.1	451.1	447.6	433.4	419.2
145°	491.5	464.1	460.9	448.6	436.2
147.5°	502.4	480.4	477.4	465.4	453.4
150°	508.1	489.0	486.2	475.3	464.4
152.5°	511.7	494.5	492.5	484.2	475.9
155°	520.0	506.8	505.3	499.2	493.1
157.5°	528.1	519.1	517.5	511.6	505.7
160°	531.8	524.6	523.4	518.9	514.2
162.5°	535.8	530.6	529.7	526.2	522.7
165°	541.5	539.1	538.2	535.1	532.0
167.5°	545.9	544.0	543.6	542.1	540.6
170°	549.6	549.5	549.1	547.6	546.2
172.5°	549.9	549.9	549.8	549.5	549.1
175°	552.1	553.2	553.2	553.2	553.2
177.5°	552.4	553.2	553.2	553.2	553.2
180°	553.2	553.2	553.2	553.2	553.2



TEST NUMBER: P935033

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-3500K

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	8.92	9.64	10.02	10.73	12.25	11.72	12.43	12.82	13.53	15.05
	3H	9.39	10.03	10.50	11.13	12.66	13.04	13.68	14.15	14.79	16.32
	4H	9.57	10.18	10.69	11.29	12.82	13.47	14.08	14.59	15.19	16.73
	6H	9.68	10.24	10.81	11.35	12.90	13.74	14.30	14.87	15.41	16.96
	8H	9.68	10.21	10.81	11.34	12.88	13.81	14.34	14.94	15.47	17.01
	12H	9.65	10.15	10.78	11.27	12.84	13.84	14.34	14.97	15.46	17.03
4H	2H	9.93	10.54	11.05	11.64	13.18	12.11	12.72	13.24	13.83	15.36
	3H	10.94	11.45	12.07	12.58	14.13	13.59	14.10	14.73	15.23	16.78
	4H	11.21	11.68	12.35	12.80	14.37	14.11	14.57	15.25	15.70	17.27
	6H	11.33	11.73	12.47	12.87	14.43	14.46	14.86	15.60	16.00	17.56
	8H	11.33	11.70	12.47	12.84	14.42	14.55	14.93	15.70	16.07	17.64
	12H	11.29	11.63	12.45	12.78	14.36	14.60	14.94	15.76	16.09	17.67
8H	4H	11.65	12.02	12.79	13.16	14.73	14.22	14.59	15.36	15.73	17.31
	6H	11.90	12.21	13.07	13.39	14.96	14.64	14.95	15.81	16.13	17.70
	8H	11.94	12.21	13.11	13.37	14.96	14.79	15.06	15.96	16.22	17.81
	12H	11.92	12.16	13.09	13.31	14.94	14.87	15.11	16.05	16.27	17.89
12H	4H	11.64	11.98	12.80	13.13	14.71	14.18	14.52	15.34	15.67	17.25
	6H	11.96	12.23	13.13	13.39	14.98	14.64	14.91	15.81	16.07	17.66
	8H	12.02	12.26	13.19	13.41	15.04	14.79	15.02	15.96	16.18	17.81