

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: P934633

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934633
REPORT IS A COMBINATION OF REPORTS P933706 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-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: -

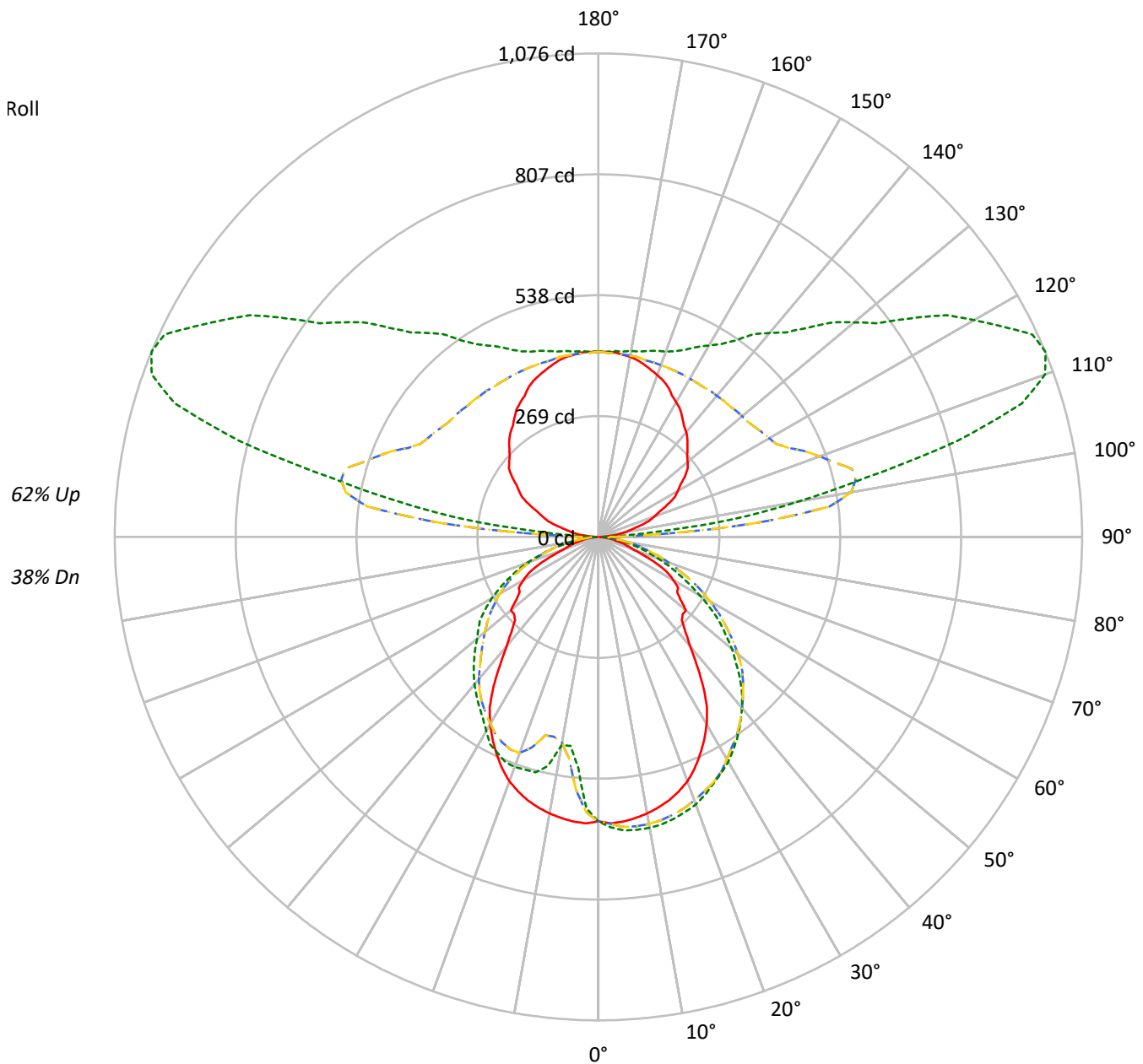
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4315.0 lumens
Efficiency: N/A
Efficacy: 125.4 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): 34.4
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38	38	38	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32	32	32	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27	27	27	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23	23	23	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20	20	20	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17	17	17	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15	15	15	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13	13	13	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12	12	12	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11	11	11	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10	10	10	10

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	1.3
10°-20°	162.2	3.8
20°-30°	250.7	5.8
30°-40°	299.3	6.9
40°-50°	301.0	7.0
50°-60°	261.9	6.1
60°-70°	185.7	4.3
70°-80°	98.3	2.3
80°-90°	26.0	0.6
90°-100°	201.0	4.7
100°-110°	528.4	12.2
110°-120°	547.9	12.7
120°-130°	439.5	10.2
130°-140°	344.8	8.0
140°-150°	264.7	6.1
150°-160°	190.6	4.4
160°-170°	116.6	2.7
170°-180°	39.4	0.9
0°-30°	470.0	10.9
0°-40°	769.3	17.8
0°-60°	1332.2	30.9
0°-90°	1642.2	38.1
90°-120°	1277.2	29.6
90°-150°	2326.1	53.9
90°-180°	2673.0	61.9
0°-180°	4315.0	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°	3	10	3	10	3	3
95°	27	122	27	122	27	30
105°	95	827	95	827	95	101
115°	169	1065	169	1065	169	167
125°	235	848	235	848	235	209
135°	280	658	280	658	280	217
145°	325	534	325	534	325	204
155°	368	460	368	460	368	169
165°	396	428	396	428	396	112
175°	412	415	412	415	412	39
180°	412	412	412	412	412	



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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°	2.8	5.0	7.2	7.8	12.2	18.1	21.1	18.7	14.0	10.5	10.5
92.5°	11.1	29.9	48.6	53.4	75.1	104.0	118.5	103.8	74.5	52.6	50.5
95°	26.6	61.1	95.5	104.1	184.8	292.3	346.2	308.8	234.3	178.4	172.1
97.5°	46.0	76.3	106.7	114.3	248.9	428.3	518.0	494.4	447.4	412.0	400.0
100°	60.9	88.4	116.0	122.8	272.2	471.3	570.8	572.5	576.0	578.6	564.2
102.5°	73.6	99.3	125.0	131.4	282.9	484.9	585.8	615.8	675.8	720.8	708.5
105°	95.2	116.9	138.7	144.2	290.8	486.4	584.1	651.4	786.0	886.8	880.2
107.5°	117.3	137.6	157.9	163.0	292.3	464.7	550.9	644.7	832.4	973.1	974.7
110°	132.3	150.6	169.0	173.5	290.1	445.5	523.3	628.1	837.9	995.3	1002.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	146.9	164.4	181.8	186.2	290.2	428.8	498.1	605.5	820.1	981.2	991.8
115°	169.1	185.1	201.3	205.3	292.9	409.5	467.9	571.4	778.2	933.3	948.0
117.5°	190.9	205.6	220.2	223.9	298.3	397.5	447.1	540.5	727.1	867.2	883.4
120°	203.7	217.4	231.2	234.7	302.7	393.5	438.8	524.1	694.7	822.6	838.4
122.5°	216.1	230.0	243.9	247.3	309.0	391.3	432.5	509.2	662.9	778.1	793.7
125°	235.2	247.9	260.6	263.7	317.7	389.6	425.6	490.9	621.4	719.2	733.6
127.5°	250.7	263.5	276.3	279.5	326.3	388.6	419.8	475.9	587.9	671.9	684.0
130°	259.0	272.8	286.5	290.0	332.5	389.2	417.6	467.5	567.2	642.0	653.1
132.5°	267.6	281.4	295.1	298.6	337.6	389.6	415.6	460.2	549.6	616.5	626.5
135°	280.3	292.8	305.4	308.5	343.1	389.3	412.3	449.7	524.5	580.6	589.2
137.5°	293.3	305.7	318.1	321.3	351.4	391.7	411.8	443.4	506.6	554.0	561.0
140°	304.1	315.5	327.0	329.8	356.5	392.0	409.8	437.1	491.7	532.6	539.2
142.5°	312.4	322.9	333.5	336.2	360.7	393.5	409.8	433.8	481.7	517.7	523.4
145°	325.1	334.4	343.6	345.9	366.2	393.5	407.0	426.7	465.9	495.3	499.6
147.5°	337.9	346.8	355.8	358.0	374.4	396.1	407.0	422.5	453.4	476.5	480.1
150°	346.2	354.3	362.4	364.5	378.6	397.6	407.0	420.1	446.1	465.7	468.5
152.5°	354.7	360.9	367.0	368.6	381.4	398.5	407.0	418.2	440.4	457.1	459.3
155°	367.5	372.0	376.5	377.7	387.5	400.5	407.0	415.9	433.5	446.8	448.3
157.5°	376.9	381.3	385.8	386.9	393.6	402.6	407.0	413.9	427.7	438.0	439.0
160°	383.2	386.7	390.1	391.0	396.3	403.5	407.0	412.9	424.8	433.6	434.2
162.5°	389.6	392.2	394.8	395.4	399.3	404.4	407.0	412.0	421.9	429.4	430.0
165°	396.5	398.8	401.1	401.8	403.6	405.9	407.0	410.6	417.7	423.1	423.7
167.5°	402.8	403.9	405.1	405.3	406.9	408.8	409.8	412.1	416.9	420.3	420.6
170°	407.0	408.1	409.3	409.5	409.6	409.7	409.8	412.1	416.9	420.3	420.3
172.5°	409.3	409.5	409.7	409.8	409.8	409.8	409.8	411.7	415.3	418.1	417.9
175°	412.3	412.3	412.3	412.3	411.5	410.3	409.8	411.0	413.3	415.1	415.1
177.5°	412.3	412.3	412.3	412.3	411.7	410.8	410.3	411.2	413.1	414.5	414.3
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



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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°	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.1	18.1	12.2	7.8
92.5°	42.1	33.7	42.1	50.5	52.6	74.5	103.8	118.5	104.0	75.1	53.4
95°	146.8	121.5	146.8	172.1	178.4	234.3	308.8	346.2	292.3	184.8	104.1
97.5°	351.8	303.6	351.8	400.0	412.0	447.4	494.4	518.0	428.3	248.9	114.3
100°	506.8	449.3	506.8	564.2	578.6	576.0	572.5	570.8	471.3	272.2	122.8
102.5°	659.3	610.1	659.3	708.5	720.8	675.8	615.8	585.8	484.9	282.9	131.4
105°	853.8	827.4	853.8	880.2	886.8	786.0	651.4	584.1	486.4	290.8	144.2
107.5°	981.2	987.6	981.2	974.7	973.1	832.4	644.7	550.9	464.7	292.3	163.0
110°	1029.7	1057.3	1029.7	1002.1	995.3	837.9	628.1	523.3	445.5	290.1	173.5



TEST NUMBER: P934633

CATALOG NUMBER: SQ4-FA-075U-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°	1034.1	1076.4	1034.1	991.8	981.2	820.1	605.5	498.1	428.8	290.2	186.2
115°	1006.7	1065.3	1006.7	948.0	933.3	778.2	571.4	467.9	409.5	292.9	205.3
117.5°	948.5	1013.6	948.5	883.4	867.2	727.1	540.5	447.1	397.5	298.3	223.9
120°	901.6	964.8	901.6	838.4	822.6	694.7	524.1	438.8	393.5	302.7	234.7
122.5°	856.0	918.4	856.0	793.7	778.1	662.9	509.2	432.5	391.3	309.0	247.3
125°	791.0	848.3	791.0	733.6	719.2	621.4	490.9	425.6	389.6	317.7	263.7
127.5°	732.4	780.9	732.4	684.0	671.9	587.9	475.9	419.8	388.6	326.3	279.5
130°	697.9	742.7	697.9	653.1	642.0	567.2	467.5	417.6	389.2	332.5	290.0
132.5°	666.6	706.7	666.6	626.5	616.5	549.6	460.2	415.6	389.6	337.6	298.6
135°	623.8	658.3	623.8	589.2	580.6	524.5	449.7	412.3	389.3	343.1	308.5
137.5°	589.3	617.6	589.3	561.0	554.0	506.6	443.4	411.8	391.7	351.4	321.3
140°	565.7	592.2	565.7	539.2	532.6	491.7	437.1	409.8	392.0	356.5	329.8
142.5°	546.1	568.9	546.1	523.4	517.7	481.7	433.8	409.8	393.5	360.7	336.2
145°	516.8	534.1	516.8	499.6	495.3	465.9	426.7	407.0	393.5	366.2	345.9
147.5°	494.3	508.6	494.3	480.1	476.5	453.4	422.5	407.0	396.1	374.4	358.0
150°	480.1	491.7	480.1	468.5	465.7	446.1	420.1	407.0	397.6	378.6	364.5
152.5°	468.0	476.7	468.0	459.3	457.1	440.4	418.2	407.0	398.5	381.4	368.6
155°	454.1	459.9	454.1	448.3	446.8	433.5	415.9	407.0	400.5	387.5	377.7
157.5°	443.1	447.1	443.1	439.0	438.0	427.7	413.9	407.0	402.6	393.6	386.9
160°	436.5	438.8	436.5	434.2	433.6	424.8	412.9	407.0	403.5	396.3	391.0
162.5°	432.2	434.4	432.2	430.0	429.4	421.9	412.0	407.0	404.4	399.3	395.4
165°	426.0	428.4	426.0	423.7	423.1	417.7	410.6	407.0	405.9	403.6	401.8
167.5°	421.6	422.6	421.6	420.6	420.3	416.9	412.1	409.8	408.8	406.9	405.3
170°	420.3	420.3	420.3	420.3	420.3	416.9	412.1	409.8	409.7	409.6	409.5
172.5°	417.0	416.1	417.0	417.9	418.1	415.3	411.7	409.8	409.8	409.8	409.8
175°	415.1	415.1	415.1	415.1	415.1	413.3	411.0	409.8	410.3	411.5	412.3
177.5°	413.3	412.3	413.3	414.3	414.5	413.1	411.2	410.3	410.8	411.7	412.3
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



TEST NUMBER: P934633

CATALOG NUMBER: SQ4-FA-075U-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°	7.2	5.0	2.8	5.0	7.2	7.8	12.2	18.1	21.1	18.7	14.0
92.5°	48.6	29.9	11.1	29.9	48.6	53.4	75.1	104.0	118.5	103.8	74.5
95°	95.5	61.1	26.6	61.1	95.5	104.1	184.8	292.3	346.2	308.8	234.3
97.5°	106.7	76.3	46.0	76.3	106.7	114.3	248.9	428.3	518.0	494.4	447.4
100°	116.0	88.4	60.9	88.4	116.0	122.8	272.2	471.3	570.8	572.5	576.0
102.5°	125.0	99.3	73.6	99.3	125.0	131.4	282.9	484.9	585.8	615.8	675.8
105°	138.7	116.9	95.2	116.9	138.7	144.2	290.8	486.4	584.1	651.4	786.0
107.5°	157.9	137.6	117.3	137.6	157.9	163.0	292.3	464.7	550.9	644.7	832.4
110°	169.0	150.6	132.3	150.6	169.0	173.5	290.1	445.5	523.3	628.1	837.9



TEST NUMBER: P934633

CATALOG NUMBER: SQ4-FA-075U-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°	181.8	164.4	146.9	164.4	181.8	186.2	290.2	428.8	498.1	605.5	820.1
115°	201.3	185.1	169.1	185.1	201.3	205.3	292.9	409.5	467.9	571.4	778.2
117.5°	220.2	205.6	190.9	205.6	220.2	223.9	298.3	397.5	447.1	540.5	727.1
120°	231.2	217.4	203.7	217.4	231.2	234.7	302.7	393.5	438.8	524.1	694.7
122.5°	243.9	230.0	216.1	230.0	243.9	247.3	309.0	391.3	432.5	509.2	662.9
125°	260.6	247.9	235.2	247.9	260.6	263.7	317.7	389.6	425.6	490.9	621.4
127.5°	276.3	263.5	250.7	263.5	276.3	279.5	326.3	388.6	419.8	475.9	587.9
130°	286.5	272.8	259.0	272.8	286.5	290.0	332.5	389.2	417.6	467.5	567.2
132.5°	295.1	281.4	267.6	281.4	295.1	298.6	337.6	389.6	415.6	460.2	549.6
135°	305.4	292.8	280.3	292.8	305.4	308.5	343.1	389.3	412.3	449.7	524.5
137.5°	318.1	305.7	293.3	305.7	318.1	321.3	351.4	391.7	411.8	443.4	506.6
140°	327.0	315.5	304.1	315.5	327.0	329.8	356.5	392.0	409.8	437.1	491.7
142.5°	333.5	322.9	312.4	322.9	333.5	336.2	360.7	393.5	409.8	433.8	481.7
145°	343.6	334.4	325.1	334.4	343.6	345.9	366.2	393.5	407.0	426.7	465.9
147.5°	355.8	346.8	337.9	346.8	355.8	358.0	374.4	396.1	407.0	422.5	453.4
150°	362.4	354.3	346.2	354.3	362.4	364.5	378.6	397.6	407.0	420.1	446.1
152.5°	367.0	360.9	354.7	360.9	367.0	368.6	381.4	398.5	407.0	418.2	440.4
155°	376.5	372.0	367.5	372.0	376.5	377.7	387.5	400.5	407.0	415.9	433.5
157.5°	385.8	381.3	376.9	381.3	385.8	386.9	393.6	402.6	407.0	413.9	427.7
160°	390.1	386.7	383.2	386.7	390.1	391.0	396.3	403.5	407.0	412.9	424.8
162.5°	394.8	392.2	389.6	392.2	394.8	395.4	399.3	404.4	407.0	412.0	421.9
165°	401.1	398.8	396.5	398.8	401.1	401.8	403.6	405.9	407.0	410.6	417.7
167.5°	405.1	403.9	402.8	403.9	405.1	405.3	406.9	408.8	409.8	412.1	416.9
170°	409.3	408.1	407.0	408.1	409.3	409.5	409.6	409.7	409.8	412.1	416.9
172.5°	409.7	409.5	409.3	409.5	409.7	409.8	409.8	409.8	409.8	411.7	415.3
175°	412.3	412.3	412.3	412.3	412.3	412.3	411.5	410.3	409.8	411.0	413.3
177.5°	412.3	412.3	412.3	412.3	412.3	412.3	411.7	410.8	410.3	411.2	413.1
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



TEST NUMBER: P934633

CATALOG NUMBER: SQ4-FA-075U-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°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.1	18.1
92.5°	52.6	50.5	42.1	33.7	42.1	50.5	52.6	74.5	103.8	118.5	104.0
95°	178.4	172.1	146.8	121.5	146.8	172.1	178.4	234.3	308.8	346.2	292.3
97.5°	412.0	400.0	351.8	303.6	351.8	400.0	412.0	447.4	494.4	518.0	428.3
100°	578.6	564.2	506.8	449.3	506.8	564.2	578.6	576.0	572.5	570.8	471.3
102.5°	720.8	708.5	659.3	610.1	659.3	708.5	720.8	675.8	615.8	585.8	484.9
105°	886.8	880.2	853.8	827.4	853.8	880.2	886.8	786.0	651.4	584.1	486.4
107.5°	973.1	974.7	981.2	987.6	981.2	974.7	973.1	832.4	644.7	550.9	464.7
110°	995.3	1002.1	1029.7	1057.3	1029.7	1002.1	995.3	837.9	628.1	523.3	445.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	981.2	991.8	1034.1	1076.4	1034.1	991.8	981.2	820.1	605.5	498.1	428.8
115°	933.3	948.0	1006.7	1065.3	1006.7	948.0	933.3	778.2	571.4	467.9	409.5
117.5°	867.2	883.4	948.5	1013.6	948.5	883.4	867.2	727.1	540.5	447.1	397.5
120°	822.6	838.4	901.6	964.8	901.6	838.4	822.6	694.7	524.1	438.8	393.5
122.5°	778.1	793.7	856.0	918.4	856.0	793.7	778.1	662.9	509.2	432.5	391.3
125°	719.2	733.6	791.0	848.3	791.0	733.6	719.2	621.4	490.9	425.6	389.6
127.5°	671.9	684.0	732.4	780.9	732.4	684.0	671.9	587.9	475.9	419.8	388.6
130°	642.0	653.1	697.9	742.7	697.9	653.1	642.0	567.2	467.5	417.6	389.2
132.5°	616.5	626.5	666.6	706.7	666.6	626.5	616.5	549.6	460.2	415.6	389.6
135°	580.6	589.2	623.8	658.3	623.8	589.2	580.6	524.5	449.7	412.3	389.3
137.5°	554.0	561.0	589.3	617.6	589.3	561.0	554.0	506.6	443.4	411.8	391.7
140°	532.6	539.2	565.7	592.2	565.7	539.2	532.6	491.7	437.1	409.8	392.0
142.5°	517.7	523.4	546.1	568.9	546.1	523.4	517.7	481.7	433.8	409.8	393.5
145°	495.3	499.6	516.8	534.1	516.8	499.6	495.3	465.9	426.7	407.0	393.5
147.5°	476.5	480.1	494.3	508.6	494.3	480.1	476.5	453.4	422.5	407.0	396.1
150°	465.7	468.5	480.1	491.7	480.1	468.5	465.7	446.1	420.1	407.0	397.6
152.5°	457.1	459.3	468.0	476.7	468.0	459.3	457.1	440.4	418.2	407.0	398.5
155°	446.8	448.3	454.1	459.9	454.1	448.3	446.8	433.5	415.9	407.0	400.5
157.5°	438.0	439.0	443.1	447.1	443.1	439.0	438.0	427.7	413.9	407.0	402.6
160°	433.6	434.2	436.5	438.8	436.5	434.2	433.6	424.8	412.9	407.0	403.5
162.5°	429.4	430.0	432.2	434.4	432.2	430.0	429.4	421.9	412.0	407.0	404.4
165°	423.1	423.7	426.0	428.4	426.0	423.7	423.1	417.7	410.6	407.0	405.9
167.5°	420.3	420.6	421.6	422.6	421.6	420.6	420.3	416.9	412.1	409.8	408.8
170°	420.3	420.3	420.3	420.3	420.3	420.3	420.3	416.9	412.1	409.8	409.7
172.5°	418.1	417.9	417.0	416.1	417.0	417.9	418.1	415.3	411.7	409.8	409.8
175°	415.1	415.1	415.1	415.1	415.1	415.1	415.1	413.3	411.0	409.8	410.3
177.5°	414.5	414.3	413.3	412.3	413.3	414.3	414.5	413.1	411.2	410.3	410.8
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



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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°	12.2	7.8	7.2	5.0	2.8
92.5°	75.1	53.4	48.6	29.9	11.1
95°	184.8	104.1	95.5	61.1	26.6
97.5°	248.9	114.3	106.7	76.3	46.0
100°	272.2	122.8	116.0	88.4	60.9
102.5°	282.9	131.4	125.0	99.3	73.6
105°	290.8	144.2	138.7	116.9	95.2
107.5°	292.3	163.0	157.9	137.6	117.3
110°	290.1	173.5	169.0	150.6	132.3



TEST NUMBER: P934633

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	290.2	186.2	181.8	164.4	146.9
115°	292.9	205.3	201.3	185.1	169.1
117.5°	298.3	223.9	220.2	205.6	190.9
120°	302.7	234.7	231.2	217.4	203.7
122.5°	309.0	247.3	243.9	230.0	216.1
125°	317.7	263.7	260.6	247.9	235.2
127.5°	326.3	279.5	276.3	263.5	250.7
130°	332.5	290.0	286.5	272.8	259.0
132.5°	337.6	298.6	295.1	281.4	267.6
135°	343.1	308.5	305.4	292.8	280.3
137.5°	351.4	321.3	318.1	305.7	293.3
140°	356.5	329.8	327.0	315.5	304.1
142.5°	360.7	336.2	333.5	322.9	312.4
145°	366.2	345.9	343.6	334.4	325.1
147.5°	374.4	358.0	355.8	346.8	337.9
150°	378.6	364.5	362.4	354.3	346.2
152.5°	381.4	368.6	367.0	360.9	354.7
155°	387.5	377.7	376.5	372.0	367.5
157.5°	393.6	386.9	385.8	381.3	376.9
160°	396.3	391.0	390.1	386.7	383.2
162.5°	399.3	395.4	394.8	392.2	389.6
165°	403.6	401.8	401.1	398.8	396.5
167.5°	406.9	405.3	405.1	403.9	402.8
170°	409.6	409.5	409.3	408.1	407.0
172.5°	409.8	409.8	409.7	409.5	409.3
175°	411.5	412.3	412.3	412.3	412.3
177.5°	411.7	412.3	412.3	412.3	412.3
180°	412.3	412.3	412.3	412.3	412.3



TEST NUMBER: P934633
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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	9.73	10.49	10.78	11.55	12.98	12.53	13.29	13.58	14.35	15.78
	3H	10.20	10.88	11.26	11.95	13.40	13.85	14.54	14.92	15.60	17.05
	4H	10.38	11.03	11.46	12.10	13.56	14.29	14.93	15.36	16.00	17.46
	6H	10.50	11.09	11.58	12.17	13.64	14.56	15.15	15.64	16.23	17.70
	8H	10.50	11.06	11.58	12.15	13.62	14.63	15.19	15.71	16.28	17.74
	12H	10.46	11.00	11.56	12.08	13.57	14.66	15.20	15.75	16.28	17.76
4H	2H	10.74	11.39	11.82	12.46	13.91	12.92	13.57	14.01	14.64	16.10
	3H	11.76	12.30	12.85	13.39	14.86	14.41	14.95	15.50	16.05	17.52
	4H	12.03	12.52	13.12	13.61	15.10	14.93	15.42	16.02	16.51	18.00
	6H	12.15	12.57	13.25	13.68	15.17	15.28	15.70	16.38	16.81	18.30
	8H	12.15	12.55	13.26	13.65	15.15	15.38	15.78	16.48	16.88	18.38
	12H	12.12	12.47	13.24	13.59	15.09	15.43	15.78	16.54	16.90	18.40
8H	4H	12.47	12.87	13.57	13.97	15.47	15.05	15.44	16.15	16.54	18.04
	6H	12.73	13.06	13.85	14.20	15.70	15.47	15.80	16.59	16.94	18.44
	8H	12.77	13.06	13.90	14.18	15.70	15.62	15.90	16.75	17.03	18.54
	12H	12.75	13.00	13.88	14.12	15.68	15.70	15.96	16.84	17.08	18.63
12H	4H	12.47	12.83	13.59	13.94	15.45	15.01	15.36	16.12	16.48	17.98
	6H	12.79	13.07	13.92	14.20	15.71	15.47	15.75	16.60	16.88	18.39
	8H	12.85	13.10	13.98	14.22	15.78	15.62	15.87	16.75	16.99	18.54