

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: P933833

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933833
REPORT IS A COMBINATION OF REPORTS P933674 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-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: -

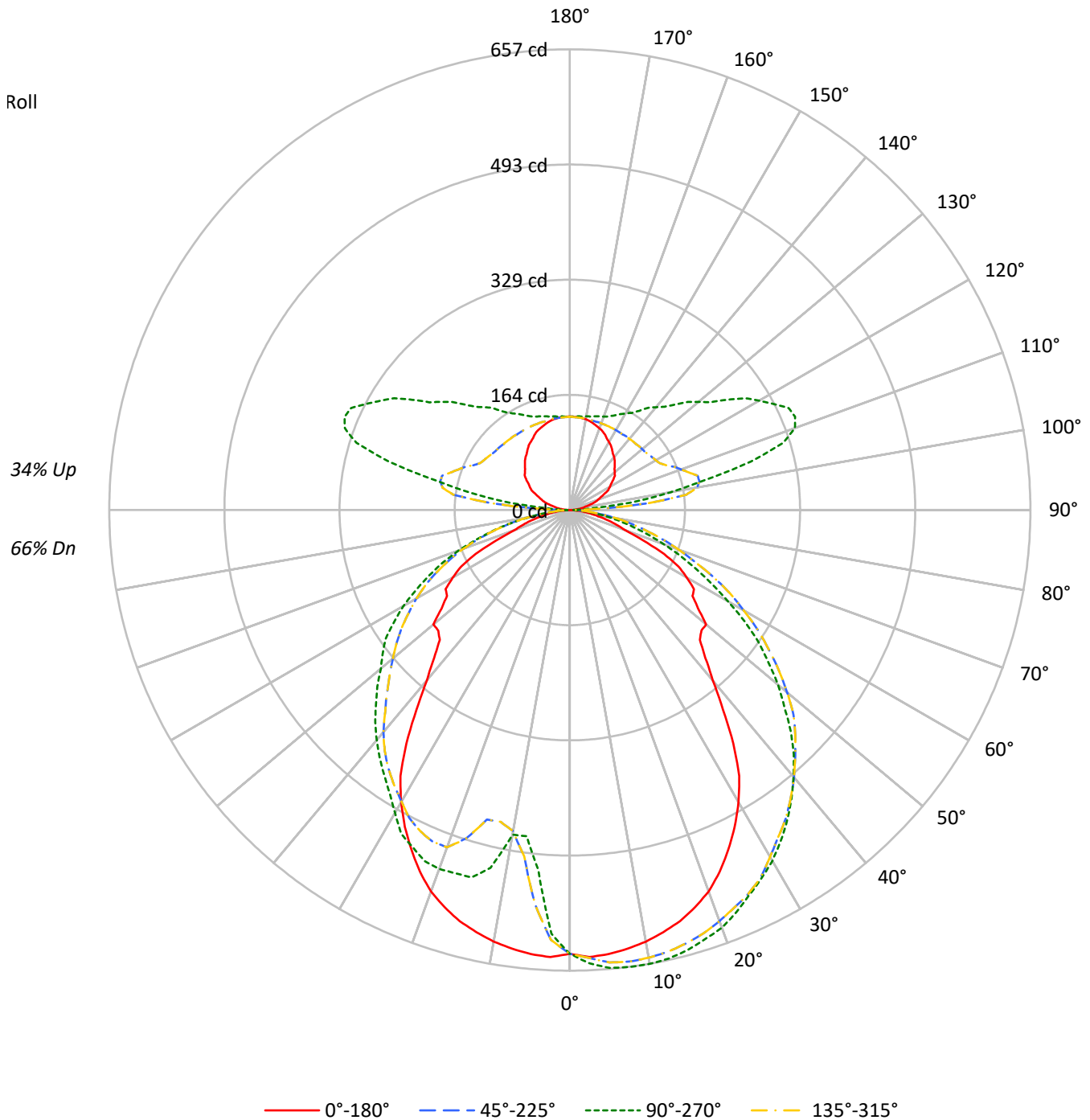
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2504.7 lumens
Efficiency: N/A
Efficacy: 113.8 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-Direct

Input Watts (W): 22
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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CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-3500K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

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	2.3
10°-20°	162.2	6.5
20°-30°	250.7	10.0
30°-40°	299.3	11.9
40°-50°	301.0	12.0
50°-60°	261.9	10.5
60°-70°	185.7	7.4
70°-80°	98.3	3.9
80°-90°	25.0	1.0
90°-100°	64.9	2.6
100°-110°	170.7	6.8
110°-120°	177.0	7.1
120°-130°	142.0	5.7
130°-140°	111.4	4.4
140°-150°	85.5	3.4
150°-160°	61.6	2.5
160°-170°	37.7	1.5
170°-180°	12.7	0.5
0°-30°	470.0	18.8
0°-40°	769.3	30.7
0°-60°	1332.2	53.2
0°-90°	1641.2	65.5
90°-120°	412.7	16.5
90°-150°	751.6	30.0
90°-180°	864.0	34.5
0°-180°	2504.7	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°	1	3	1	3	1	1
95°	9	39	9	39	9	10
105°	31	267	31	267	31	33
115°	55	344	55	344	55	54
125°	76	274	76	274	76	67
135°	91	213	91	213	91	70
145°	105	172	105	172	105	66
155°	119	149	119	149	119	55
165°	128	138	128	138	128	36
175°	133	134	133	134	133	13
180°	133	133	133	133	133	



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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°	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6	3.4	3.4
92.5°	3.6	9.6	15.7	17.2	24.3	33.7	38.3	33.6	24.1	17.0	16.2
95°	8.6	19.7	30.9	33.7	59.7	94.4	111.8	99.8	75.7	57.7	55.6
97.5°	14.8	24.6	34.5	37.0	80.4	138.4	167.4	159.8	144.5	133.1	129.2
100°	19.6	28.6	37.5	39.7	87.9	152.3	184.4	185.0	186.1	186.9	182.3
102.5°	23.7	32.0	40.4	42.5	91.4	156.7	189.2	199.0	218.3	232.9	228.9
105°	30.8	37.8	44.8	46.6	94.0	157.1	188.7	210.5	254.0	286.5	284.4
107.5°	37.9	44.5	51.1	52.7	94.4	150.1	178.0	208.3	268.9	314.5	315.0
110°	42.8	48.6	54.5	56.1	93.7	144.0	169.1	203.0	270.7	321.6	323.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.5	53.1	58.7	60.2	93.7	138.5	160.9	195.7	265.0	317.1	320.5
115°	54.6	59.8	65.0	66.3	94.6	132.4	151.2	184.6	251.5	301.5	306.3
117.5°	61.7	66.4	71.1	72.3	96.4	128.4	144.5	174.7	234.9	280.2	285.5
120°	65.8	70.2	74.7	75.8	97.7	127.1	141.7	169.3	224.5	265.8	270.9
122.5°	69.8	74.3	78.7	79.9	99.8	126.4	139.7	164.5	214.1	251.4	256.4
125°	76.0	80.1	84.2	85.2	102.7	125.9	137.5	158.5	200.8	232.3	237.0
127.5°	81.0	85.2	89.3	90.3	105.4	125.5	135.6	153.7	189.9	217.1	221.0
130°	83.6	88.1	92.6	93.7	107.5	125.8	134.9	151.0	183.3	207.4	211.0
132.5°	86.5	91.0	95.4	96.5	109.1	125.9	134.3	148.7	177.5	199.2	202.4
135°	90.6	94.6	98.7	99.7	110.9	125.8	133.2	145.2	169.4	187.5	190.3
137.5°	94.8	98.8	102.8	103.8	113.5	126.5	133.0	143.2	163.6	179.0	181.3
140°	98.3	101.9	105.7	106.6	115.1	126.7	132.4	141.2	158.9	172.1	174.2
142.5°	101.0	104.3	107.7	108.6	116.6	127.1	132.4	140.1	155.7	167.3	169.2
145°	105.1	108.0	111.0	111.8	118.4	127.1	131.5	137.8	150.5	160.0	161.5
147.5°	109.2	112.0	115.0	115.7	121.0	128.0	131.5	136.5	146.5	154.0	155.1
150°	111.8	114.4	117.1	117.7	122.3	128.4	131.5	135.7	144.2	150.5	151.4
152.5°	114.6	116.6	118.5	119.1	123.2	128.7	131.5	135.1	142.3	147.7	148.4
155°	118.7	120.1	121.7	122.0	125.1	129.3	131.5	134.3	140.1	144.4	144.9
157.5°	121.8	123.2	124.6	125.0	127.1	130.1	131.5	133.7	138.2	141.5	141.8
160°	123.8	124.9	126.0	126.3	128.0	130.3	131.5	133.4	137.2	140.1	140.2
162.5°	125.9	126.7	127.6	127.7	129.0	130.7	131.5	133.1	136.3	138.7	138.9
165°	128.1	128.8	129.6	129.8	130.3	131.1	131.5	132.6	135.0	136.7	136.8
167.5°	130.1	130.5	130.9	130.9	131.4	132.0	132.4	133.1	134.6	135.8	135.9
170°	131.5	131.8	132.2	132.3	132.3	132.4	132.4	133.1	134.6	135.8	135.8
172.5°	132.2	132.3	132.4	132.4	132.4	132.4	132.4	133.0	134.2	135.1	135.0
175°	133.2	133.2	133.2	133.2	132.9	132.6	132.4	132.7	133.5	134.1	134.1
177.5°	133.2	133.2	133.2	133.2	133.0	132.7	132.6	132.8	133.4	133.9	133.8
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



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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°	3.4	3.4	3.4	3.4	3.4	4.6	6.1	6.8	5.8	3.9	2.5
92.5°	13.6	10.9	13.6	16.2	17.0	24.1	33.6	38.3	33.7	24.3	17.2
95°	47.5	39.3	47.5	55.6	57.7	75.7	99.8	111.8	94.4	59.7	33.7
97.5°	113.6	98.1	113.6	129.2	133.1	144.5	159.8	167.4	138.4	80.4	37.0
100°	163.8	145.2	163.8	182.3	186.9	186.1	185.0	184.4	152.3	87.9	39.7
102.5°	213.0	197.1	213.0	228.9	232.9	218.3	199.0	189.2	156.7	91.4	42.5
105°	275.9	267.3	275.9	284.4	286.5	254.0	210.5	188.7	157.1	94.0	46.6
107.5°	317.1	319.1	317.1	315.0	314.5	268.9	208.3	178.0	150.1	94.4	52.7
110°	332.7	341.6	332.7	323.8	321.6	270.7	203.0	169.1	144.0	93.7	56.1



TEST NUMBER: P933833

CATALOG NUMBER: SQ4-FA-025U-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°	334.1	347.8	334.1	320.5	317.1	265.0	195.7	160.9	138.5	93.7	60.2
115°	325.3	344.2	325.3	306.3	301.5	251.5	184.6	151.2	132.4	94.6	66.3
117.5°	306.4	327.5	306.4	285.5	280.2	234.9	174.7	144.5	128.4	96.4	72.3
120°	291.4	311.7	291.4	270.9	265.8	224.5	169.3	141.7	127.1	97.7	75.8
122.5°	276.5	296.7	276.5	256.4	251.4	214.1	164.5	139.7	126.4	99.8	79.9
125°	255.6	274.1	255.6	237.0	232.3	200.8	158.5	137.5	125.9	102.7	85.2
127.5°	236.6	252.3	236.6	221.0	217.1	189.9	153.7	135.6	125.5	105.4	90.3
130°	225.5	239.9	225.5	211.0	207.4	183.3	151.0	134.9	125.8	107.5	93.7
132.5°	215.4	228.3	215.4	202.4	199.2	177.5	148.7	134.3	125.9	109.1	96.5
135°	201.6	212.7	201.6	190.3	187.5	169.4	145.2	133.2	125.8	110.9	99.7
137.5°	190.4	199.6	190.4	181.3	179.0	163.6	143.2	133.0	126.5	113.5	103.8
140°	182.7	191.3	182.7	174.2	172.1	158.9	141.2	132.4	126.7	115.1	106.6
142.5°	176.5	183.8	176.5	169.2	167.3	155.7	140.1	132.4	127.1	116.6	108.6
145°	167.0	172.5	167.0	161.5	160.0	150.5	137.8	131.5	127.1	118.4	111.8
147.5°	159.7	164.3	159.7	155.1	154.0	146.5	136.5	131.5	128.0	121.0	115.7
150°	155.1	158.9	155.1	151.4	150.5	144.2	135.7	131.5	128.4	122.3	117.7
152.5°	151.2	154.1	151.2	148.4	147.7	142.3	135.1	131.5	128.7	123.2	119.1
155°	146.7	148.6	146.7	144.9	144.4	140.1	134.3	131.5	129.3	125.1	122.0
157.5°	143.2	144.5	143.2	141.8	141.5	138.2	133.7	131.5	130.1	127.1	125.0
160°	141.0	141.7	141.0	140.2	140.1	137.2	133.4	131.5	130.3	128.0	126.3
162.5°	139.6	140.3	139.6	138.9	138.7	136.3	133.1	131.5	130.7	129.0	127.7
165°	137.6	138.4	137.6	136.8	136.7	135.0	132.6	131.5	131.1	130.3	129.8
167.5°	136.1	136.5	136.1	135.9	135.8	134.6	133.1	132.4	132.0	131.4	130.9
170°	135.8	135.8	135.8	135.8	135.8	134.6	133.1	132.4	132.4	132.3	132.3
172.5°	134.7	134.4	134.7	135.0	135.1	134.2	133.0	132.4	132.4	132.4	132.4
175°	134.1	134.1	134.1	134.1	134.1	133.5	132.7	132.4	132.6	132.9	133.2
177.5°	133.5	133.2	133.5	133.8	133.9	133.4	132.8	132.6	132.7	133.0	133.2
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P933833

CATALOG NUMBER: SQ4-FA-025U-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°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6
92.5°	15.7	9.6	3.6	9.6	15.7	17.2	24.3	33.7	38.3	33.6	24.1
95°	30.9	19.7	8.6	19.7	30.9	33.7	59.7	94.4	111.8	99.8	75.7
97.5°	34.5	24.6	14.8	24.6	34.5	37.0	80.4	138.4	167.4	159.8	144.5
100°	37.5	28.6	19.6	28.6	37.5	39.7	87.9	152.3	184.4	185.0	186.1
102.5°	40.4	32.0	23.7	32.0	40.4	42.5	91.4	156.7	189.2	199.0	218.3
105°	44.8	37.8	30.8	37.8	44.8	46.6	94.0	157.1	188.7	210.5	254.0
107.5°	51.1	44.5	37.9	44.5	51.1	52.7	94.4	150.1	178.0	208.3	268.9
110°	54.5	48.6	42.8	48.6	54.5	56.1	93.7	144.0	169.1	203.0	270.7



TEST NUMBER: P933833

CATALOG NUMBER: SQ4-FA-025U-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°	58.7	53.1	47.5	53.1	58.7	60.2	93.7	138.5	160.9	195.7	265.0
115°	65.0	59.8	54.6	59.8	65.0	66.3	94.6	132.4	151.2	184.6	251.5
117.5°	71.1	66.4	61.7	66.4	71.1	72.3	96.4	128.4	144.5	174.7	234.9
120°	74.7	70.2	65.8	70.2	74.7	75.8	97.7	127.1	141.7	169.3	224.5
122.5°	78.7	74.3	69.8	74.3	78.7	79.9	99.8	126.4	139.7	164.5	214.1
125°	84.2	80.1	76.0	80.1	84.2	85.2	102.7	125.9	137.5	158.5	200.8
127.5°	89.3	85.2	81.0	85.2	89.3	90.3	105.4	125.5	135.6	153.7	189.9
130°	92.6	88.1	83.6	88.1	92.6	93.7	107.5	125.8	134.9	151.0	183.3
132.5°	95.4	91.0	86.5	91.0	95.4	96.5	109.1	125.9	134.3	148.7	177.5
135°	98.7	94.6	90.6	94.6	98.7	99.7	110.9	125.8	133.2	145.2	169.4
137.5°	102.8	98.8	94.8	98.8	102.8	103.8	113.5	126.5	133.0	143.2	163.6
140°	105.7	101.9	98.3	101.9	105.7	106.6	115.1	126.7	132.4	141.2	158.9
142.5°	107.7	104.3	101.0	104.3	107.7	108.6	116.6	127.1	132.4	140.1	155.7
145°	111.0	108.0	105.1	108.0	111.0	111.8	118.4	127.1	131.5	137.8	150.5
147.5°	115.0	112.0	109.2	112.0	115.0	115.7	121.0	128.0	131.5	136.5	146.5
150°	117.1	114.4	111.8	114.4	117.1	117.7	122.3	128.4	131.5	135.7	144.2
152.5°	118.5	116.6	114.6	116.6	118.5	119.1	123.2	128.7	131.5	135.1	142.3
155°	121.7	120.1	118.7	120.1	121.7	122.0	125.1	129.3	131.5	134.3	140.1
157.5°	124.6	123.2	121.8	123.2	124.6	125.0	127.1	130.1	131.5	133.7	138.2
160°	126.0	124.9	123.8	124.9	126.0	126.3	128.0	130.3	131.5	133.4	137.2
162.5°	127.6	126.7	125.9	126.7	127.6	127.7	129.0	130.7	131.5	133.1	136.3
165°	129.6	128.8	128.1	128.8	129.6	129.8	130.3	131.1	131.5	132.6	135.0
167.5°	130.9	130.5	130.1	130.5	130.9	130.9	131.4	132.0	132.4	133.1	134.6
170°	132.2	131.8	131.5	131.8	132.2	132.3	132.3	132.4	132.4	133.1	134.6
172.5°	132.4	132.3	132.2	132.3	132.4	132.4	132.4	132.4	132.4	133.0	134.2
175°	133.2	133.2	133.2	133.2	133.2	133.2	132.9	132.6	132.4	132.7	133.5
177.5°	133.2	133.2	133.2	133.2	133.2	133.2	133.0	132.7	132.6	132.8	133.4
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P933833

CATALOG NUMBER: SQ4-FA-025U-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°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	6.1	6.8	5.8
92.5°	17.0	16.2	13.6	10.9	13.6	16.2	17.0	24.1	33.6	38.3	33.7
95°	57.7	55.6	47.5	39.3	47.5	55.6	57.7	75.7	99.8	111.8	94.4
97.5°	133.1	129.2	113.6	98.1	113.6	129.2	133.1	144.5	159.8	167.4	138.4
100°	186.9	182.3	163.8	145.2	163.8	182.3	186.9	186.1	185.0	184.4	152.3
102.5°	232.9	228.9	213.0	197.1	213.0	228.9	232.9	218.3	199.0	189.2	156.7
105°	286.5	284.4	275.9	267.3	275.9	284.4	286.5	254.0	210.5	188.7	157.1
107.5°	314.5	315.0	317.1	319.1	317.1	315.0	314.5	268.9	208.3	178.0	150.1
110°	321.6	323.8	332.7	341.6	332.7	323.8	321.6	270.7	203.0	169.1	144.0



TEST NUMBER: P933833

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	317.1	320.5	334.1	347.8	334.1	320.5	317.1	265.0	195.7	160.9	138.5
115°	301.5	306.3	325.3	344.2	325.3	306.3	301.5	251.5	184.6	151.2	132.4
117.5°	280.2	285.5	306.4	327.5	306.4	285.5	280.2	234.9	174.7	144.5	128.4
120°	265.8	270.9	291.4	311.7	291.4	270.9	265.8	224.5	169.3	141.7	127.1
122.5°	251.4	256.4	276.5	296.7	276.5	256.4	251.4	214.1	164.5	139.7	126.4
125°	232.3	237.0	255.6	274.1	255.6	237.0	232.3	200.8	158.5	137.5	125.9
127.5°	217.1	221.0	236.6	252.3	236.6	221.0	217.1	189.9	153.7	135.6	125.5
130°	207.4	211.0	225.5	239.9	225.5	211.0	207.4	183.3	151.0	134.9	125.8
132.5°	199.2	202.4	215.4	228.3	215.4	202.4	199.2	177.5	148.7	134.3	125.9
135°	187.5	190.3	201.6	212.7	201.6	190.3	187.5	169.4	145.2	133.2	125.8
137.5°	179.0	181.3	190.4	199.6	190.4	181.3	179.0	163.6	143.2	133.0	126.5
140°	172.1	174.2	182.7	191.3	182.7	174.2	172.1	158.9	141.2	132.4	126.7
142.5°	167.3	169.2	176.5	183.8	176.5	169.2	167.3	155.7	140.1	132.4	127.1
145°	160.0	161.5	167.0	172.5	167.0	161.5	160.0	150.5	137.8	131.5	127.1
147.5°	154.0	155.1	159.7	164.3	159.7	155.1	154.0	146.5	136.5	131.5	128.0
150°	150.5	151.4	155.1	158.9	155.1	151.4	150.5	144.2	135.7	131.5	128.4
152.5°	147.7	148.4	151.2	154.1	151.2	148.4	147.7	142.3	135.1	131.5	128.7
155°	144.4	144.9	146.7	148.6	146.7	144.9	144.4	140.1	134.3	131.5	129.3
157.5°	141.5	141.8	143.2	144.5	143.2	141.8	141.5	138.2	133.7	131.5	130.1
160°	140.1	140.2	141.0	141.7	141.0	140.2	140.1	137.2	133.4	131.5	130.3
162.5°	138.7	138.9	139.6	140.3	139.6	138.9	138.7	136.3	133.1	131.5	130.7
165°	136.7	136.8	137.6	138.4	137.6	136.8	136.7	135.0	132.6	131.5	131.1
167.5°	135.8	135.9	136.1	136.5	136.1	135.9	135.8	134.6	133.1	132.4	132.0
170°	135.8	135.8	135.8	135.8	135.8	135.8	135.8	134.6	133.1	132.4	132.4
172.5°	135.1	135.0	134.7	134.4	134.7	135.0	135.1	134.2	133.0	132.4	132.4
175°	134.1	134.1	134.1	134.1	134.1	134.1	134.1	133.5	132.7	132.4	132.6
177.5°	133.9	133.8	133.5	133.2	133.5	133.8	133.9	133.4	132.8	132.6	132.7
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P933833

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-3500K

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°	3.9	2.5	2.3	1.6	0.9
92.5°	24.3	17.2	15.7	9.6	3.6
95°	59.7	33.7	30.9	19.7	8.6
97.5°	80.4	37.0	34.5	24.6	14.8
100°	87.9	39.7	37.5	28.6	19.6
102.5°	91.4	42.5	40.4	32.0	23.7
105°	94.0	46.6	44.8	37.8	30.8
107.5°	94.4	52.7	51.1	44.5	37.9
110°	93.7	56.1	54.5	48.6	42.8



TEST NUMBER: P933833

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	93.7	60.2	58.7	53.1	47.5
115°	94.6	66.3	65.0	59.8	54.6
117.5°	96.4	72.3	71.1	66.4	61.7
120°	97.7	75.8	74.7	70.2	65.8
122.5°	99.8	79.9	78.7	74.3	69.8
125°	102.7	85.2	84.2	80.1	76.0
127.5°	105.4	90.3	89.3	85.2	81.0
130°	107.5	93.7	92.6	88.1	83.6
132.5°	109.1	96.5	95.4	91.0	86.5
135°	110.9	99.7	98.7	94.6	90.6
137.5°	113.5	103.8	102.8	98.8	94.8
140°	115.1	106.6	105.7	101.9	98.3
142.5°	116.6	108.6	107.7	104.3	101.0
145°	118.4	111.8	111.0	108.0	105.1
147.5°	121.0	115.7	115.0	112.0	109.2
150°	122.3	117.7	117.1	114.4	111.8
152.5°	123.2	119.1	118.5	116.6	114.6
155°	125.1	122.0	121.7	120.1	118.7
157.5°	127.1	125.0	124.6	123.2	121.8
160°	128.0	126.3	126.0	124.9	123.8
162.5°	129.0	127.7	127.6	126.7	125.9
165°	130.3	129.8	129.6	128.8	128.1
167.5°	131.4	130.9	130.9	130.5	130.1
170°	132.3	132.3	132.2	131.8	131.5
172.5°	132.4	132.4	132.4	132.3	132.2
175°	132.9	133.2	133.2	133.2	133.2
177.5°	133.0	133.2	133.2	133.2	133.2
180°	133.2	133.2	133.2	133.2	133.2



TEST NUMBER: P933833
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.27	13.29	13.08	14.12	15.15	15.06	16.08	15.87	16.92	17.95
	3H	12.75	13.67	13.58	14.51	15.57	16.41	17.33	17.24	18.17	19.23
	4H	12.95	13.82	13.79	14.67	15.74	16.86	17.72	17.70	18.57	19.64
	6H	13.08	13.88	13.93	14.74	15.82	17.14	17.94	17.99	18.80	19.88
	8H	13.09	13.85	13.95	14.72	15.81	17.22	17.97	18.08	18.85	19.94
	12H	13.06	13.79	13.93	14.66	15.77	17.26	17.98	18.12	18.85	19.96
4H	2H	13.31	14.17	14.16	15.03	16.10	15.49	16.36	16.34	17.21	18.28
	3H	14.35	15.07	15.21	15.96	17.04	17.00	17.72	17.86	18.61	19.69
	4H	14.63	15.29	15.50	16.17	17.28	17.53	18.19	18.40	19.07	20.18
	6H	14.77	15.34	15.65	16.24	17.36	17.90	18.46	18.78	19.37	20.49
	8H	14.78	15.31	15.67	16.21	17.34	18.00	18.53	18.89	19.43	20.56
	12H	14.75	15.23	15.66	16.15	17.28	18.06	18.54	18.97	19.46	20.59
8H	4H	15.10	15.62	15.98	16.52	17.65	17.67	18.20	18.56	19.10	20.23
	6H	15.36	15.80	16.28	16.74	17.87	18.10	18.54	19.02	19.48	20.61
	8H	15.41	15.80	16.33	16.73	17.88	18.25	18.64	19.18	19.58	20.72
	12H	15.40	15.74	16.33	16.67	17.86	18.35	18.69	19.28	19.62	20.82
12H	4H	15.11	15.58	16.02	16.50	17.64	17.64	18.12	18.55	19.04	20.17
	6H	15.42	15.81	16.35	16.75	17.89	18.10	18.49	19.03	19.43	20.57
	8H	15.50	15.84	16.43	16.77	17.96	18.27	18.61	19.20	19.54	20.73