

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: P934235

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934235
REPORT IS A COMBINATION OF REPORTS P933690 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

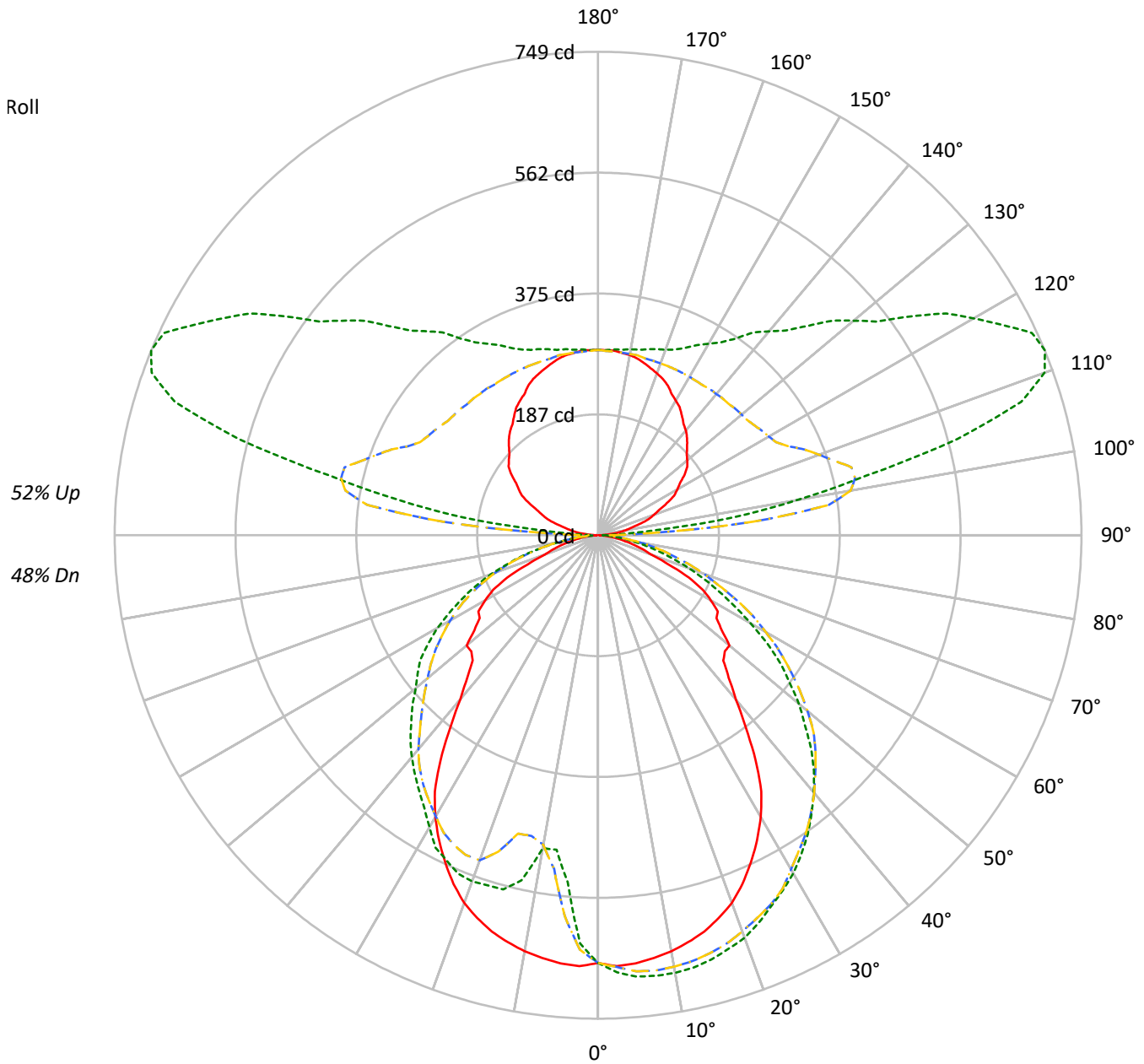
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3579.9 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 28.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-5000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - · 90°-270° - · - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6148	6148	6148	6148
5°	6187	6206	6187	4880
10°	6140	6114	6140	4371
15°	6065	5982	6065	4994
20°	5932	5824	5932	5005
25°	5665	5596	5665	4899
30°	5323	5405	5323	4666
35°	4739	5165	4739	4410
40°	3941	4882	3941	4216
45°	3514	4551	3514	3994
50°	3726	4156	3726	3771
55°	3496	3731	3496	3642
60°	3591	3168	3591	3336
65°	3238	2619	3238	2927
70°	2229	2087	2229	2455
75°	1931	1543	1931	1848
80°	1526	1022	1526	1110
85°	828	541	828	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5398 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.7
10°-20°	169.8	4.7
20°-30°	262.5	7.3
30°-40°	313.4	8.8
40°-50°	315.2	8.8
50°-60°	274.3	7.7
60°-70°	194.5	5.4
70°-80°	102.9	2.9
80°-90°	26.7	0.7
90°-100°	139.9	3.9
100°-110°	367.9	10.3
110°-120°	381.4	10.7
120°-130°	306.0	8.5
130°-140°	240.1	6.7
140°-150°	184.3	5.1
150°-160°	132.7	3.7
160°-170°	81.2	2.3
170°-180°	27.4	0.8
0°-30°	492.1	13.7
0°-40°	805.5	22.5
0°-60°	1395.0	39.0
0°-90°	1719.1	48.0
90°-120°	889.2	24.8
90°-150°	1619.5	45.2
90°-180°	1861.0	52.0
0°-180°	3579.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	663	663	663	663	663	
5°	666	686	666	540	666	63
15°	636	680	636	568	636	179
25°	560	634	560	555	560	257
35°	426	566	426	483	426	263
45°	274	466	274	409	274	220
55°	224	344	224	336	224	206
65°	155	208	155	232	155	149
75°	59	98	59	118	59	62
85°	10	25	10	21	10	14
90°	2	7	2	7	2	2
95°	18	85	18	85	18	21
105°	66	576	66	576	66	70
115°	118	742	118	742	118	116
125°	164	591	164	591	164	145
135°	195	458	195	458	195	151
145°	226	372	226	372	226	142
155°	256	320	256	320	256	118
165°	276	298	276	298	276	78
175°	287	289	287	289	287	27
180°	287	287	287	287	287	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	668.2	668.2	672.0	673.3	673.3	671.4	669.5	671.4	677.0	678.9	678.2
5°	665.7	670.7	677.7	678.9	680.2	679.5	678.2	679.5	685.8	687.0	687.7
7.5°	660.7	670.1	678.9	680.7	682.6	680.7	680.2	681.4	687.7	688.9	688.9
10°	654.5	667.6	677.7	678.9	680.7	678.9	678.9	681.4	687.7	688.9	689.5
12.5°	645.7	663.8	673.3	674.5	677.0	676.4	675.8	678.2	684.6	685.8	685.8
15°	635.6	656.9	665.7	667.0	671.4	670.1	670.1	672.6	679.5	681.4	680.7
17.5°	621.9	648.2	658.2	660.1	663.3	662.6	663.3	665.7	672.0	673.3	673.9
20°	606.2	636.3	648.2	650.1	653.2	653.2	653.2	656.4	662.6	665.1	665.1
22.5°	584.8	623.7	636.3	637.6	641.3	641.3	642.5	646.9	652.5	653.2	653.2
25°	559.8	609.9	620.6	624.4	628.1	630.0	631.9	634.4	636.3	635.6	636.3
27.5°	533.4	592.4	606.2	608.7	613.7	615.6	618.1	618.7	619.3	621.2	620.0
30°	504.0	567.9	588.6	591.1	599.2	600.5	598.0	599.2	602.4	603.6	604.9
32.5°	470.8	531.6	570.5	576.1	583.6	579.9	579.2	581.1	586.2	586.2	587.4
35°	425.7	503.3	553.5	558.6	564.2	559.8	562.3	562.9	566.1	567.9	567.3
37.5°	376.1	478.9	536.0	539.7	544.1	538.5	542.2	544.1	546.6	545.4	545.4
40°	332.2	440.7	515.3	517.8	521.6	517.2	520.9	522.2	523.4	522.2	521.6
42.5°	299.7	398.7	493.3	496.5	494.0	497.1	498.4	500.9	498.9	496.5	496.5
45°	274.5	387.4	469.5	473.2	469.5	474.6	476.4	476.4	470.8	469.5	468.8
47.5°	266.4	364.8	445.7	445.7	443.8	450.1	453.2	448.8	443.2	441.3	441.3
50°	265.8	339.8	413.1	410.6	419.4	426.9	423.8	419.4	415.0	408.1	408.1
52.5°	241.3	309.0	371.1	380.5	394.3	398.7	393.7	389.3	381.7	378.6	376.1
55°	223.8	277.0	332.8	351.6	366.1	371.7	362.3	357.9	346.7	344.8	343.5
57.5°	220.0	230.7	297.8	321.5	339.1	338.6	332.8	324.7	315.3	313.4	312.8
60°	201.9	166.8	260.1	288.4	306.5	304.6	299.7	292.1	283.3	282.1	280.9
62.5°	183.0	121.0	217.5	249.5	275.2	274.5	270.2	258.9	252.7	249.5	246.9
65°	155.4	101.5	154.9	207.5	244.5	245.7	236.3	228.2	221.2	217.5	216.9
67.5°	118.5	82.7	104.7	173.0	215.0	213.8	201.9	198.1	189.3	187.4	183.7
70°	87.8	55.1	72.7	140.4	186.2	183.0	173.7	169.3	161.1	156.8	154.2
72.5°	72.7	44.5	53.3	109.1	156.8	152.9	144.8	139.8	132.9	129.2	126.7
75°	58.9	47.0	40.8	80.9	127.2	124.8	117.2	112.2	106.6	101.5	102.2
77.5°	43.3	43.8	32.6	59.5	100.9	97.2	92.8	86.6	84.0	79.0	79.0
80°	32.6	34.5	24.5	40.8	72.7	72.7	69.0	64.6	60.2	57.7	57.7
82.5°	22.0	22.0	18.1	25.7	49.5	47.7	45.1	43.8	41.4	40.1	40.1
85°	10.0	12.5	11.3	15.7	26.9	28.2	28.2	26.9	26.4	25.1	25.7
87.5°	3.2	5.6	6.9	8.8	13.8	14.4	15.0	15.0	15.0	15.7	15.7
90°	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7	7.3	7.3
92.5°	7.7	20.8	33.9	37.2	52.3	72.3	82.4	72.3	51.9	36.6	35.1
95°	18.5	42.4	66.5	72.4	128.6	203.5	241.0	215.0	163.1	124.2	119.8
97.5°	32.0	53.1	74.2	79.5	173.2	298.2	360.6	344.3	311.4	286.9	278.4
100°	42.3	61.5	80.8	85.5	189.5	328.1	397.4	398.7	401.1	402.9	392.9
102.5°	51.2	69.2	87.0	91.5	196.9	337.5	407.8	428.7	470.5	501.8	493.2
105°	66.3	81.4	96.6	100.4	202.5	338.6	406.7	453.5	547.2	617.5	612.9
107.5°	81.7	95.8	109.9	113.5	203.5	323.6	383.6	448.9	579.6	677.6	678.7
110°	92.1	104.8	117.6	120.8	202.0	310.2	364.3	437.3	583.4	693.0	697.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	102.3	114.4	126.6	129.6	202.0	298.5	346.8	421.6	571.0	683.2	690.6
115°	117.7	128.9	140.1	142.9	203.9	285.1	325.7	397.7	541.8	649.8	660.0
117.5°	132.9	143.1	153.3	155.8	207.7	276.8	311.4	376.3	506.2	603.7	615.0
120°	141.8	151.4	161.0	163.4	210.8	274.0	305.6	364.9	483.7	572.8	583.8
122.5°	150.5	160.2	169.8	172.3	215.2	272.5	301.1	354.5	461.6	541.8	552.6
125°	163.8	172.5	181.3	183.6	221.2	271.3	296.3	341.7	432.6	500.7	510.7
127.5°	174.5	183.5	192.4	194.6	227.1	270.6	292.3	331.3	409.2	467.7	476.1
130°	180.3	189.9	199.5	201.9	231.5	271.0	290.7	325.5	394.9	447.0	454.7
132.5°	186.3	195.9	205.4	207.9	235.1	271.3	289.4	320.4	382.6	429.2	436.2
135°	195.2	203.9	212.6	214.8	238.9	271.0	287.0	313.0	365.1	404.2	410.1
137.5°	204.2	212.8	221.5	223.7	244.7	272.7	286.7	308.6	352.7	385.7	390.6
140°	211.7	219.7	227.7	229.7	248.2	272.9	285.3	304.3	342.4	370.9	375.5
142.5°	217.5	224.9	232.2	234.1	251.2	273.9	285.3	302.0	335.4	360.4	364.3
145°	226.4	232.7	239.2	240.8	255.0	274.0	283.4	297.0	324.3	344.8	347.8
147.5°	235.3	241.5	247.7	249.3	260.7	275.8	283.4	294.2	315.7	331.7	334.3
150°	241.0	246.6	252.3	253.7	263.6	276.8	283.4	292.5	310.6	324.2	326.3
152.5°	246.9	251.2	255.5	256.6	265.5	277.4	283.4	291.2	306.7	318.3	319.8
155°	255.8	259.0	262.2	262.9	269.8	278.8	283.4	289.6	301.9	311.2	312.2
157.5°	262.4	265.5	268.5	269.3	274.0	280.2	283.4	288.2	297.8	305.0	305.7
160°	266.9	269.2	271.6	272.2	275.9	280.9	283.4	287.5	295.7	301.9	302.3
162.5°	271.3	273.0	274.8	275.3	278.0	281.6	283.4	286.9	293.8	299.0	299.4
165°	276.1	277.7	279.4	279.8	281.0	282.6	283.4	285.8	290.8	294.5	294.9
167.5°	280.5	281.3	282.0	282.2	283.2	284.6	285.3	287.0	290.2	292.7	292.8
170°	283.4	284.2	284.9	285.1	285.2	285.3	285.3	287.0	290.2	292.7	292.7
172.5°	284.9	285.1	285.3	285.3	285.3	285.3	285.3	286.6	289.1	291.1	290.9
175°	287.0	287.0	287.0	287.0	286.5	285.6	285.3	286.1	287.8	289.0	289.0
177.5°	287.0	287.0	287.0	287.0	286.6	286.0	285.7	286.4	287.7	288.6	288.5
180°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	679.5	677.7	679.5	678.2	678.9	677.0	671.4	669.5	671.4	673.3	673.3
5°	687.7	686.4	687.7	687.7	687.0	685.8	679.5	678.2	679.5	680.2	678.9
7.5°	690.2	688.3	690.2	688.9	688.9	687.7	681.4	680.2	680.7	682.6	680.7
10°	690.2	688.3	690.2	689.5	688.9	687.7	681.4	678.9	678.9	680.7	678.9
12.5°	687.0	685.8	687.0	685.8	685.8	684.6	678.2	675.8	676.4	677.0	674.5
15°	682.1	680.2	682.1	680.7	681.4	679.5	672.6	670.1	670.1	671.4	667.0
17.5°	674.5	672.0	674.5	673.9	673.3	672.0	665.7	663.3	662.6	663.3	660.1
20°	665.7	663.8	665.7	665.1	665.1	662.6	656.4	653.2	653.2	653.2	650.1
22.5°	652.0	650.1	652.0	653.2	653.2	652.5	646.9	642.5	641.3	641.3	637.6
25°	636.3	634.4	636.3	636.3	635.6	636.3	634.4	631.9	630.0	628.1	624.4
27.5°	621.2	620.0	621.2	620.0	621.2	619.3	618.7	618.1	615.6	613.7	608.7
30°	606.2	604.9	606.2	604.9	603.6	602.4	599.2	598.0	600.5	599.2	591.1
32.5°	587.4	586.2	587.4	587.4	586.2	586.2	581.1	579.2	579.9	583.6	576.1
35°	567.9	566.1	567.9	567.3	567.9	566.1	562.9	562.3	559.8	564.2	558.6
37.5°	545.4	543.5	545.4	545.4	545.4	546.6	544.1	542.2	538.5	544.1	539.7
40°	522.2	519.7	522.2	521.6	522.2	523.4	522.2	520.9	517.2	521.6	517.8
42.5°	495.9	495.2	495.9	496.5	496.5	498.9	500.9	498.4	497.1	494.0	496.5
45°	467.6	466.4	467.6	468.8	469.5	470.8	476.4	476.4	474.6	469.5	473.2
47.5°	437.5	434.5	437.5	441.3	441.3	443.2	448.8	453.2	450.1	443.8	445.7
50°	405.6	406.2	405.6	408.1	408.1	415.0	419.4	423.8	426.9	419.4	410.6
52.5°	374.3	373.6	374.3	376.1	378.6	381.7	389.3	393.7	398.7	394.3	380.5
55°	342.9	344.2	342.9	343.5	344.8	346.7	357.9	362.3	371.7	366.1	351.6
57.5°	311.5	309.7	311.5	312.8	313.4	315.3	324.7	332.8	338.6	339.1	321.5
60°	275.2	272.7	275.2	280.9	282.1	283.3	292.1	299.7	304.6	306.5	288.4
62.5°	243.2	238.8	243.2	246.9	249.5	252.7	258.9	270.2	274.5	275.2	249.5
65°	209.4	207.5	209.4	216.9	217.5	221.2	228.2	236.3	245.7	244.5	207.5
67.5°	178.6	178.6	178.6	183.7	187.4	189.3	198.1	201.9	213.8	215.0	173.0
70°	150.5	149.8	150.5	154.2	156.8	161.1	169.3	173.7	183.0	186.2	140.4
72.5°	123.5	122.8	123.5	126.7	129.2	132.9	139.8	144.8	152.9	156.8	109.1
75°	99.6	98.4	99.6	102.2	101.5	106.6	112.2	117.2	124.8	127.2	80.9
77.5°	76.5	76.5	76.5	79.0	79.0	84.0	86.6	92.8	97.2	100.9	59.5
80°	57.0	56.5	57.0	57.7	57.7	60.2	64.6	69.0	72.7	72.7	40.8
82.5°	40.1	38.9	40.1	40.1	40.1	41.4	43.8	45.1	47.7	49.5	25.7
85°	25.1	25.1	25.1	25.7	25.1	26.4	26.9	28.2	28.2	26.9	15.7
87.5°	16.3	15.7	16.3	15.7	15.7	15.0	15.0	15.0	14.4	13.8	8.8
90°	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6	8.5	5.4
92.5°	29.3	23.5	29.3	35.1	36.6	51.9	72.3	82.4	72.3	52.3	37.2
95°	102.2	84.6	102.2	119.8	124.2	163.1	215.0	241.0	203.5	128.6	72.4
97.5°	244.9	211.3	244.9	278.4	286.9	311.4	344.3	360.6	298.2	173.2	79.5
100°	352.9	312.8	352.9	392.9	402.9	401.1	398.7	397.4	328.1	189.5	85.5
102.5°	459.0	424.8	459.0	493.2	501.8	470.5	428.7	407.8	337.5	196.9	91.5
105°	594.5	576.1	594.5	612.9	617.5	547.2	453.5	406.7	338.6	202.5	100.4
107.5°	683.1	687.6	683.1	678.7	677.6	579.6	448.9	383.6	323.6	203.5	113.5
110°	716.9	736.1	716.9	697.8	693.0	583.4	437.3	364.3	310.2	202.0	120.8



TEST NUMBER: P934235

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	720.0	749.4	720.0	690.6	683.2	571.0	421.6	346.8	298.5	202.0	129.6
115°	700.8	741.7	700.8	660.0	649.8	541.8	397.7	325.7	285.1	203.9	142.9
117.5°	660.4	705.7	660.4	615.0	603.7	506.2	376.3	311.4	276.8	207.7	155.8
120°	627.7	671.8	627.7	583.8	572.8	483.7	364.9	305.6	274.0	210.8	163.4
122.5°	596.1	639.4	596.1	552.6	541.8	461.6	354.5	301.1	272.5	215.2	172.3
125°	550.6	590.6	550.6	510.7	500.7	432.6	341.7	296.3	271.3	221.2	183.6
127.5°	509.9	543.6	509.9	476.1	467.7	409.2	331.3	292.3	270.6	227.1	194.6
130°	486.0	517.1	486.0	454.7	447.0	394.9	325.5	290.7	271.0	231.5	201.9
132.5°	464.1	492.0	464.1	436.2	429.2	382.6	320.4	289.4	271.3	235.1	207.9
135°	434.3	458.3	434.3	410.1	404.2	365.1	313.0	287.0	271.0	238.9	214.8
137.5°	410.2	430.0	410.2	390.6	385.7	352.7	308.6	286.7	272.7	244.7	223.7
140°	393.9	412.3	393.9	375.5	370.9	342.4	304.3	285.3	272.9	248.2	229.7
142.5°	380.2	396.1	380.2	364.3	360.4	335.4	302.0	285.3	273.9	251.2	234.1
145°	359.9	371.8	359.9	347.8	344.8	324.3	297.0	283.4	274.0	255.0	240.8
147.5°	344.2	354.1	344.2	334.3	331.7	315.7	294.2	283.4	275.8	260.7	249.3
150°	334.3	342.4	334.3	326.3	324.2	310.6	292.5	283.4	276.8	263.6	253.7
152.5°	325.8	331.9	325.8	319.8	318.3	306.7	291.2	283.4	277.4	265.5	256.6
155°	316.2	320.2	316.2	312.2	311.2	301.9	289.6	283.4	278.8	269.8	262.9
157.5°	308.5	311.4	308.5	305.7	305.0	297.8	288.2	283.4	280.2	274.0	269.3
160°	304.0	305.6	304.0	302.3	301.9	295.7	287.5	283.4	280.9	275.9	272.2
162.5°	301.0	302.5	301.0	299.4	299.0	293.8	286.9	283.4	281.6	278.0	275.3
165°	296.6	298.3	296.6	294.9	294.5	290.8	285.8	283.4	282.6	281.0	279.8
167.5°	293.5	294.2	293.5	292.8	292.7	290.2	287.0	285.3	284.6	283.2	282.2
170°	292.7	292.7	292.7	292.7	292.7	290.2	287.0	285.3	285.3	285.2	285.1
172.5°	290.3	289.8	290.3	290.9	291.1	289.1	286.6	285.3	285.3	285.3	285.3
175°	289.0	289.0	289.0	289.0	289.0	287.8	286.1	285.3	285.6	286.5	287.0
177.5°	287.8	287.0	287.8	288.5	288.6	287.7	286.4	285.7	286.0	286.6	287.0
180°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0



TEST NUMBER: P934235

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	672.0	668.2	668.2	662.0	659.4	657.6	654.5	645.0	642.5	640.0	643.8
5°	677.7	670.7	665.7	654.5	645.0	641.3	629.3	606.8	591.8	580.5	574.2
7.5°	678.9	670.1	660.7	643.2	620.6	610.5	574.2	532.9	521.6	511.6	505.2
10°	677.7	667.6	654.5	628.1	574.8	557.3	520.9	494.0	487.1	485.2	487.1
12.5°	673.3	663.8	645.7	601.8	527.2	515.3	494.0	478.3	477.1	480.2	497.1
15°	665.7	656.9	635.6	566.7	500.9	492.1	477.1	471.4	478.3	500.3	551.0
17.5°	658.2	648.2	621.9	532.2	480.8	474.6	463.9	475.2	514.0	543.5	560.4
20°	648.2	636.3	606.2	507.2	466.4	460.7	455.8	506.5	536.0	546.6	556.1
22.5°	636.3	623.7	584.8	489.6	451.4	447.0	450.1	524.1	536.0	543.5	551.7
25°	620.6	609.9	559.8	475.8	439.4	434.5	446.3	522.2	529.0	530.9	547.3
27.5°	606.2	592.4	533.4	463.2	425.0	423.1	449.5	514.0	519.0	520.9	538.5
30°	588.6	567.9	504.0	450.1	410.0	409.3	450.1	504.0	502.8	507.7	525.3
32.5°	570.5	531.6	470.8	433.8	395.6	394.9	445.7	488.9	487.7	494.6	507.7
35°	553.5	503.3	425.7	415.0	377.3	378.0	435.0	471.4	472.0	478.3	486.4
37.5°	536.0	478.9	376.1	394.3	359.9	359.9	420.6	455.1	453.9	455.8	467.0
40°	515.3	440.7	332.2	367.3	343.5	341.6	403.0	437.5	433.1	432.6	448.2
42.5°	493.3	398.7	299.7	331.6	324.7	322.2	381.7	416.2	408.1	410.0	430.1
45°	469.5	387.4	274.5	280.2	305.3	303.4	358.6	391.8	386.1	391.2	411.8
47.5°	445.7	364.8	266.4	232.6	284.6	284.0	332.8	368.0	364.8	369.9	391.8
50°	413.1	339.8	265.8	199.4	261.4	263.9	302.2	344.8	344.8	349.2	372.4
52.5°	371.1	309.0	241.3	180.5	234.4	242.0	275.2	324.7	325.9	330.3	351.1
55°	332.8	277.0	223.8	166.1	202.5	218.8	248.8	304.1	306.5	310.9	329.8
57.5°	297.8	230.7	220.0	149.2	173.0	188.7	225.6	284.0	285.2	289.0	307.1
60°	260.1	166.8	201.9	131.0	147.3	159.2	204.3	260.1	264.5	267.0	282.7
62.5°	217.5	121.0	183.0	118.5	134.8	137.3	186.8	237.6	243.2	245.1	254.5
65°	154.9	101.5	155.4	107.9	121.6	122.3	168.0	214.4	219.4	222.6	229.5
67.5°	104.7	82.7	118.5	97.8	111.6	112.2	149.8	187.4	194.3	196.8	201.2
70°	72.7	55.1	87.8	87.1	100.3	101.5	130.4	163.0	169.3	171.1	173.7
72.5°	53.3	44.5	72.7	78.3	88.4	89.6	110.3	135.4	141.7	143.6	144.8
75°	40.8	47.0	58.9	68.3	75.2	75.8	90.3	110.3	114.7	116.0	116.6
77.5°	32.6	43.8	43.3	55.1	61.4	60.2	70.9	85.2	89.0	89.0	89.0
80°	24.5	34.5	32.6	39.5	45.1	43.8	50.8	60.8	62.1	63.3	62.7
82.5°	18.1	22.0	22.0	25.1	30.1	28.9	33.8	39.5	39.5	39.5	40.8
85°	11.3	12.5	10.0	13.2	16.9	16.3	18.8	21.3	22.0	22.0	20.7
87.5°	6.9	5.6	3.2	5.0	7.5	7.5	8.8	9.4	8.8	8.8	8.8
90°	5.0	3.5	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7
92.5°	33.9	20.8	7.7	20.8	33.9	37.2	52.3	72.3	82.4	72.3	51.9
95°	66.5	42.4	18.5	42.4	66.5	72.4	128.6	203.5	241.0	215.0	163.1
97.5°	74.2	53.1	32.0	53.1	74.2	79.5	173.2	298.2	360.6	344.3	311.4
100°	80.8	61.5	42.3	61.5	80.8	85.5	189.5	328.1	397.4	398.7	401.1
102.5°	87.0	69.2	51.2	69.2	87.0	91.5	196.9	337.5	407.8	428.7	470.5
105°	96.6	81.4	66.3	81.4	96.6	100.4	202.5	338.6	406.7	453.5	547.2
107.5°	109.9	95.8	81.7	95.8	109.9	113.5	203.5	323.6	383.6	448.9	579.6
110°	117.6	104.8	92.1	104.8	117.6	120.8	202.0	310.2	364.3	437.3	583.4



TEST NUMBER: P934235

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	126.6	114.4	102.3	114.4	126.6	129.6	202.0	298.5	346.8	421.6	571.0
115°	140.1	128.9	117.7	128.9	140.1	142.9	203.9	285.1	325.7	397.7	541.8
117.5°	153.3	143.1	132.9	143.1	153.3	155.8	207.7	276.8	311.4	376.3	506.2
120°	161.0	151.4	141.8	151.4	161.0	163.4	210.8	274.0	305.6	364.9	483.7
122.5°	169.8	160.2	150.5	160.2	169.8	172.3	215.2	272.5	301.1	354.5	461.6
125°	181.3	172.5	163.8	172.5	181.3	183.6	221.2	271.3	296.3	341.7	432.6
127.5°	192.4	183.5	174.5	183.5	192.4	194.6	227.1	270.6	292.3	331.3	409.2
130°	199.5	189.9	180.3	189.9	199.5	201.9	231.5	271.0	290.7	325.5	394.9
132.5°	205.4	195.9	186.3	195.9	205.4	207.9	235.1	271.3	289.4	320.4	382.6
135°	212.6	203.9	195.2	203.9	212.6	214.8	238.9	271.0	287.0	313.0	365.1
137.5°	221.5	212.8	204.2	212.8	221.5	223.7	244.7	272.7	286.7	308.6	352.7
140°	227.7	219.7	211.7	219.7	227.7	229.7	248.2	272.9	285.3	304.3	342.4
142.5°	232.2	224.9	217.5	224.9	232.2	234.1	251.2	273.9	285.3	302.0	335.4
145°	239.2	232.7	226.4	232.7	239.2	240.8	255.0	274.0	283.4	297.0	324.3
147.5°	247.7	241.5	235.3	241.5	247.7	249.3	260.7	275.8	283.4	294.2	315.7
150°	252.3	246.6	241.0	246.6	252.3	253.7	263.6	276.8	283.4	292.5	310.6
152.5°	255.5	251.2	246.9	251.2	255.5	256.6	265.5	277.4	283.4	291.2	306.7
155°	262.2	259.0	255.8	259.0	262.2	262.9	269.8	278.8	283.4	289.6	301.9
157.5°	268.5	265.5	262.4	265.5	268.5	269.3	274.0	280.2	283.4	288.2	297.8
160°	271.6	269.2	266.9	269.2	271.6	272.2	275.9	280.9	283.4	287.5	295.7
162.5°	274.8	273.0	271.3	273.0	274.8	275.3	278.0	281.6	283.4	286.9	293.8
165°	279.4	277.7	276.1	277.7	279.4	279.8	281.0	282.6	283.4	285.8	290.8
167.5°	282.0	281.3	280.5	281.3	282.0	282.2	283.2	284.6	285.3	287.0	290.2
170°	284.9	284.2	283.4	284.2	284.9	285.1	285.2	285.3	285.3	287.0	290.2
172.5°	285.3	285.1	284.9	285.1	285.3	285.3	285.3	285.3	285.3	286.6	289.1
175°	287.0	287.0	287.0	287.0	287.0	287.0	286.5	285.6	285.3	286.1	287.8
177.5°	287.0	287.0	287.0	287.0	287.0	287.0	286.6	286.0	285.7	286.4	287.7
180°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0



TEST NUMBER: P934235

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	639.4	637.6	640.0	633.2	640.0	637.6	639.4	643.8	640.0	642.5	645.0
5°	561.0	557.9	547.9	539.7	547.9	557.9	561.0	574.2	580.5	591.8	606.8
7.5°	501.5	498.9	496.5	491.5	496.5	498.9	501.5	505.2	511.6	521.6	532.9
10°	488.3	488.9	492.7	492.1	492.7	488.9	488.3	487.1	485.2	487.1	494.0
12.5°	522.2	527.8	548.5	547.3	548.5	527.8	522.2	497.1	480.2	477.1	478.3
15°	561.0	562.9	567.3	567.9	567.3	562.9	561.0	551.0	500.3	478.3	471.4
17.5°	564.8	565.4	568.6	568.6	568.6	565.4	564.8	560.4	543.5	514.0	475.2
20°	561.7	562.9	569.2	570.5	569.2	562.9	561.7	556.1	546.6	536.0	506.5
22.5°	560.4	562.9	567.9	567.3	567.9	562.9	560.4	551.7	543.5	536.0	524.1
25°	554.2	554.2	554.7	555.4	554.7	554.2	554.2	547.3	530.9	529.0	522.2
27.5°	541.0	542.2	546.0	545.4	546.0	542.2	541.0	538.5	520.9	519.0	514.0
30°	529.0	527.8	524.7	522.2	524.7	527.8	529.0	525.3	507.7	502.8	504.0
32.5°	509.0	505.9	502.8	500.9	502.8	505.9	509.0	507.7	494.6	487.7	488.9
35°	485.2	485.9	485.2	483.3	485.2	485.9	485.2	486.4	478.3	472.0	471.4
37.5°	468.3	469.5	468.8	466.4	468.8	469.5	468.3	467.0	455.8	453.9	455.1
40°	450.7	451.4	450.7	448.8	450.7	451.4	450.7	448.2	432.6	433.1	437.5
42.5°	433.8	433.1	431.3	430.1	431.3	433.1	433.8	430.1	410.0	408.1	416.2
45°	414.4	415.0	411.2	409.3	411.2	415.0	414.4	411.8	391.2	386.1	391.8
47.5°	394.9	394.9	391.8	389.9	391.8	394.9	394.9	391.8	369.9	364.8	368.0
50°	374.3	373.6	369.2	368.6	369.2	373.6	374.3	372.4	349.2	344.8	344.8
52.5°	350.4	350.4	351.1	352.3	351.1	350.4	350.4	351.1	330.3	325.9	324.7
55°	329.8	330.3	334.7	336.0	334.7	330.3	329.8	329.8	310.9	306.5	304.1
57.5°	308.5	308.5	311.5	311.5	311.5	308.5	308.5	307.1	289.0	285.2	284.0
60°	284.0	285.2	287.7	287.1	287.7	285.2	284.0	282.7	267.0	264.5	260.1
62.5°	258.3	259.6	260.1	258.9	260.1	259.6	258.3	254.5	245.1	243.2	237.6
65°	231.3	232.6	233.2	231.9	233.2	232.6	231.3	229.5	222.6	219.4	214.4
67.5°	203.8	203.1	202.5	205.0	202.5	203.1	203.8	201.2	196.8	194.3	187.4
70°	175.5	175.5	174.9	176.2	174.9	175.5	175.5	173.7	171.1	169.3	163.0
72.5°	145.4	144.8	147.3	145.4	147.3	144.8	145.4	144.8	143.6	141.7	135.4
75°	116.0	117.2	116.0	117.9	116.0	117.2	116.0	116.6	116.0	114.7	110.3
77.5°	88.4	89.6	88.4	88.4	88.4	89.6	88.4	89.0	89.0	89.0	85.2
80°	62.7	62.1	62.1	61.4	62.1	62.1	62.7	62.7	63.3	62.1	60.8
82.5°	40.1	39.5	39.5	40.8	39.5	39.5	40.1	40.8	39.5	39.5	39.5
85°	22.0	22.5	21.3	21.3	21.3	22.5	22.0	20.7	22.0	22.0	21.3
87.5°	8.1	7.5	7.5	7.5	7.5	7.5	8.1	8.8	8.8	8.8	9.4
90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6
92.5°	36.6	35.1	29.3	23.5	29.3	35.1	36.6	51.9	72.3	82.4	72.3
95°	124.2	119.8	102.2	84.6	102.2	119.8	124.2	163.1	215.0	241.0	203.5
97.5°	286.9	278.4	244.9	211.3	244.9	278.4	286.9	311.4	344.3	360.6	298.2
100°	402.9	392.9	352.9	312.8	352.9	392.9	402.9	401.1	398.7	397.4	328.1
102.5°	501.8	493.2	459.0	424.8	459.0	493.2	501.8	470.5	428.7	407.8	337.5
105°	617.5	612.9	594.5	576.1	594.5	612.9	617.5	547.2	453.5	406.7	338.6
107.5°	677.6	678.7	683.1	687.6	683.1	678.7	677.6	579.6	448.9	383.6	323.6
110°	693.0	697.8	716.9	736.1	716.9	697.8	693.0	583.4	437.3	364.3	310.2



TEST NUMBER: P934235

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	683.2	690.6	720.0	749.4	720.0	690.6	683.2	571.0	421.6	346.8	298.5
115°	649.8	660.0	700.8	741.7	700.8	660.0	649.8	541.8	397.7	325.7	285.1
117.5°	603.7	615.0	660.4	705.7	660.4	615.0	603.7	506.2	376.3	311.4	276.8
120°	572.8	583.8	627.7	671.8	627.7	583.8	572.8	483.7	364.9	305.6	274.0
122.5°	541.8	552.6	596.1	639.4	596.1	552.6	541.8	461.6	354.5	301.1	272.5
125°	500.7	510.7	550.6	590.6	550.6	510.7	500.7	432.6	341.7	296.3	271.3
127.5°	467.7	476.1	509.9	543.6	509.9	476.1	467.7	409.2	331.3	292.3	270.6
130°	447.0	454.7	486.0	517.1	486.0	454.7	447.0	394.9	325.5	290.7	271.0
132.5°	429.2	436.2	464.1	492.0	464.1	436.2	429.2	382.6	320.4	289.4	271.3
135°	404.2	410.1	434.3	458.3	434.3	410.1	404.2	365.1	313.0	287.0	271.0
137.5°	385.7	390.6	410.2	430.0	410.2	390.6	385.7	352.7	308.6	286.7	272.7
140°	370.9	375.5	393.9	412.3	393.9	375.5	370.9	342.4	304.3	285.3	272.9
142.5°	360.4	364.3	380.2	396.1	380.2	364.3	360.4	335.4	302.0	285.3	273.9
145°	344.8	347.8	359.9	371.8	359.9	347.8	344.8	324.3	297.0	283.4	274.0
147.5°	331.7	334.3	344.2	354.1	344.2	334.3	331.7	315.7	294.2	283.4	275.8
150°	324.2	326.3	334.3	342.4	334.3	326.3	324.2	310.6	292.5	283.4	276.8
152.5°	318.3	319.8	325.8	331.9	325.8	319.8	318.3	306.7	291.2	283.4	277.4
155°	311.2	312.2	316.2	320.2	316.2	312.2	311.2	301.9	289.6	283.4	278.8
157.5°	305.0	305.7	308.5	311.4	308.5	305.7	305.0	297.8	288.2	283.4	280.2
160°	301.9	302.3	304.0	305.6	304.0	302.3	301.9	295.7	287.5	283.4	280.9
162.5°	299.0	299.4	301.0	302.5	301.0	299.4	299.0	293.8	286.9	283.4	281.6
165°	294.5	294.9	296.6	298.3	296.6	294.9	294.5	290.8	285.8	283.4	282.6
167.5°	292.7	292.8	293.5	294.2	293.5	292.8	292.7	290.2	287.0	285.3	284.6
170°	292.7	292.7	292.7	292.7	292.7	292.7	292.7	290.2	287.0	285.3	285.3
172.5°	291.1	290.9	290.3	289.8	290.3	290.9	291.1	289.1	286.6	285.3	285.3
175°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	287.8	286.1	285.3	285.6
177.5°	288.6	288.5	287.8	287.0	287.8	288.5	288.6	287.7	286.4	285.7	286.0
180°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0



TEST NUMBER: P934235

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	662.6	662.6	662.6	662.6	662.6
2.5°	654.5	657.6	659.4	662.0	668.2
5°	629.3	641.3	645.0	654.5	665.7
7.5°	574.2	610.5	620.6	643.2	660.7
10°	520.9	557.3	574.8	628.1	654.5
12.5°	494.0	515.3	527.2	601.8	645.7
15°	477.1	492.1	500.9	566.7	635.6
17.5°	463.9	474.6	480.8	532.2	621.9
20°	455.8	460.7	466.4	507.2	606.2
22.5°	450.1	447.0	451.4	489.6	584.8
25°	446.3	434.5	439.4	475.8	559.8
27.5°	449.5	423.1	425.0	463.2	533.4
30°	450.1	409.3	410.0	450.1	504.0
32.5°	445.7	394.9	395.6	433.8	470.8
35°	435.0	378.0	377.3	415.0	425.7
37.5°	420.6	359.9	359.9	394.3	376.1
40°	403.0	341.6	343.5	367.3	332.2
42.5°	381.7	322.2	324.7	331.6	299.7
45°	358.6	303.4	305.3	280.2	274.5
47.5°	332.8	284.0	284.6	232.6	266.4
50°	302.2	263.9	261.4	199.4	265.8
52.5°	275.2	242.0	234.4	180.5	241.3
55°	248.8	218.8	202.5	166.1	223.8
57.5°	225.6	188.7	173.0	149.2	220.0
60°	204.3	159.2	147.3	131.0	201.9
62.5°	186.8	137.3	134.8	118.5	183.0
65°	168.0	122.3	121.6	107.9	155.4
67.5°	149.8	112.2	111.6	97.8	118.5
70°	130.4	101.5	100.3	87.1	87.8
72.5°	110.3	89.6	88.4	78.3	72.7
75°	90.3	75.8	75.2	68.3	58.9
77.5°	70.9	60.2	61.4	55.1	43.3
80°	50.8	43.8	45.1	39.5	32.6
82.5°	33.8	28.9	30.1	25.1	22.0
85°	18.8	16.3	16.9	13.2	10.0
87.5°	8.8	7.5	7.5	5.0	3.2
90°	8.5	5.4	5.0	3.5	2.0
92.5°	52.3	37.2	33.9	20.8	7.7
95°	128.6	72.4	66.5	42.4	18.5
97.5°	173.2	79.5	74.2	53.1	32.0
100°	189.5	85.5	80.8	61.5	42.3
102.5°	196.9	91.5	87.0	69.2	51.2
105°	202.5	100.4	96.6	81.4	66.3
107.5°	203.5	113.5	109.9	95.8	81.7
110°	202.0	120.8	117.6	104.8	92.1



TEST NUMBER: P934235

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	202.0	129.6	126.6	114.4	102.3
115°	203.9	142.9	140.1	128.9	117.7
117.5°	207.7	155.8	153.3	143.1	132.9
120°	210.8	163.4	161.0	151.4	141.8
122.5°	215.2	172.3	169.8	160.2	150.5
125°	221.2	183.6	181.3	172.5	163.8
127.5°	227.1	194.6	192.4	183.5	174.5
130°	231.5	201.9	199.5	189.9	180.3
132.5°	235.1	207.9	205.4	195.9	186.3
135°	238.9	214.8	212.6	203.9	195.2
137.5°	244.7	223.7	221.5	212.8	204.2
140°	248.2	229.7	227.7	219.7	211.7
142.5°	251.2	234.1	232.2	224.9	217.5
145°	255.0	240.8	239.2	232.7	226.4
147.5°	260.7	249.3	247.7	241.5	235.3
150°	263.6	253.7	252.3	246.6	241.0
152.5°	265.5	256.6	255.5	251.2	246.9
155°	269.8	262.9	262.2	259.0	255.8
157.5°	274.0	269.3	268.5	265.5	262.4
160°	275.9	272.2	271.6	269.2	266.9
162.5°	278.0	275.3	274.8	273.0	271.3
165°	281.0	279.8	279.4	277.7	276.1
167.5°	283.2	282.2	282.0	281.3	280.5
170°	285.2	285.1	284.9	284.2	283.4
172.5°	285.3	285.3	285.3	285.1	284.9
175°	286.5	287.0	287.0	287.0	287.0
177.5°	286.6	287.0	287.0	287.0	287.0
180°	287.0	287.0	287.0	287.0	287.0



TEST NUMBER: P934235
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.92	11.76	11.89	12.75	14.05	13.71	14.56	14.69	15.55	16.85
	3H	11.39	12.15	12.38	13.15	14.47	15.05	15.80	16.03	16.80	18.12
	4H	11.58	12.30	12.58	13.30	14.63	15.49	16.20	16.48	17.20	18.53
	6H	11.70	12.36	12.71	13.37	14.71	15.76	16.42	16.77	17.43	18.77
	8H	11.70	12.33	12.72	13.35	14.69	15.83	16.46	16.85	17.48	18.82
	12H	11.67	12.27	12.69	13.29	14.65	15.87	16.46	16.89	17.48	18.84
4H	2H	11.94	12.66	12.95	13.66	14.99	14.12	14.84	15.13	15.84	17.17
	3H	12.97	13.56	13.98	14.59	15.93	15.62	16.21	16.63	17.24	18.59
	4H	13.24	13.79	14.26	14.81	16.17	16.14	16.68	17.16	17.71	19.07
	6H	13.37	13.83	14.40	14.88	16.24	16.49	16.96	17.53	18.01	19.37
	8H	13.37	13.81	14.40	14.85	16.22	16.60	17.03	17.63	18.07	19.45
	12H	13.34	13.73	14.39	14.79	16.17	16.65	17.04	17.70	18.10	19.48
8H	4H	13.69	14.13	14.72	15.16	16.54	16.26	16.70	17.30	17.74	19.12
	6H	13.95	14.31	15.01	15.39	16.77	16.69	17.05	17.75	18.13	19.51
	8H	13.99	14.31	15.06	15.37	16.77	16.84	17.16	17.90	18.22	19.61
	12H	13.97	14.25	15.04	15.31	16.75	16.93	17.21	18.00	18.27	19.70
12H	4H	13.69	14.09	14.74	15.14	16.52	16.23	16.62	17.28	17.67	19.06
	6H	14.01	14.33	15.07	15.39	16.79	16.69	17.01	17.75	18.07	19.46
	8H	14.07	14.35	15.14	15.41	16.85	16.84	17.12	17.91	18.18	19.62