

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: P934635

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934635
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-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

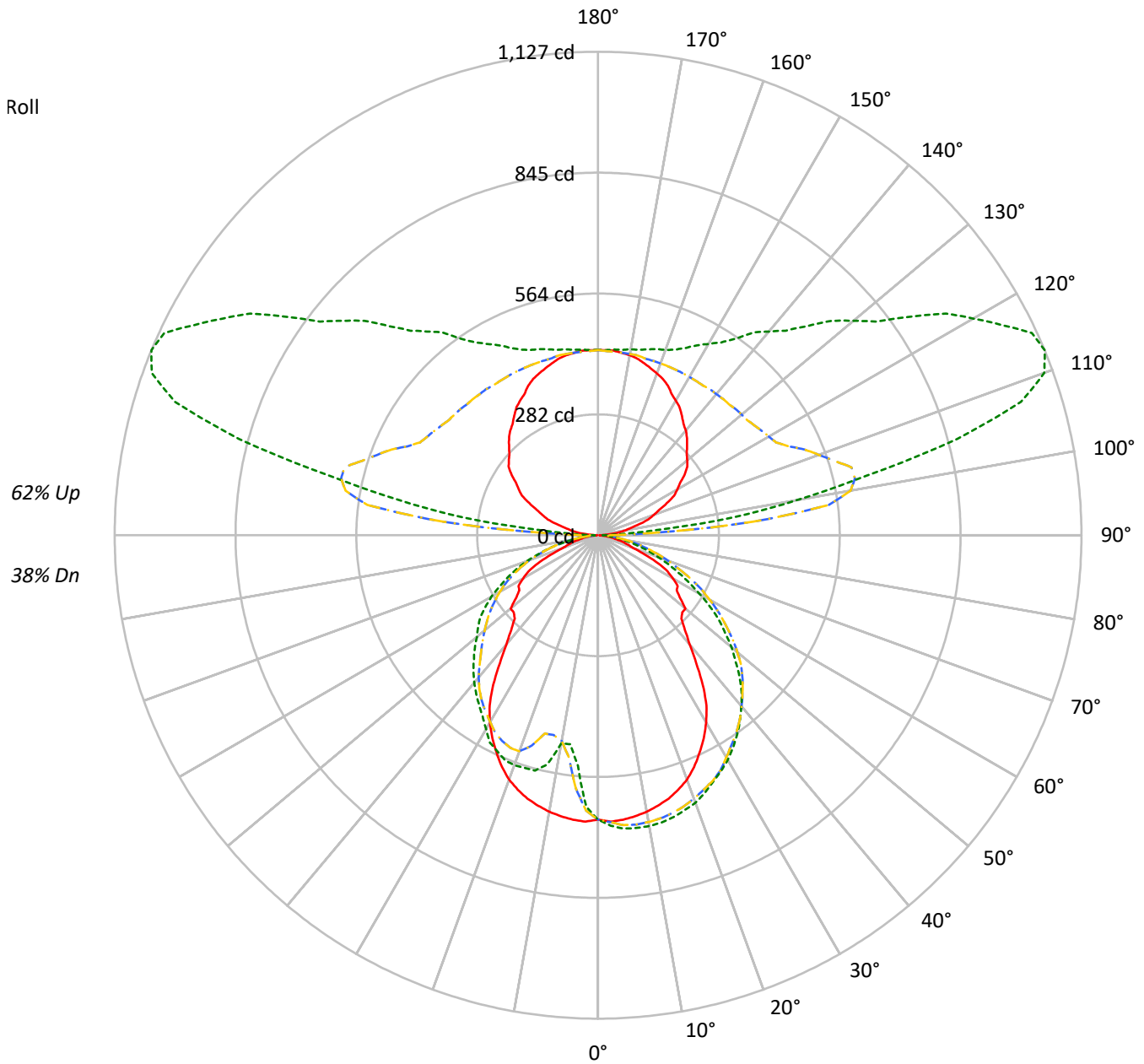
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4518.4 lumens
Efficiency: N/A
Efficacy: 131.3 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

TEST NUMBER: P934635
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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	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

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	1.3
10°-20°	169.8	3.8
20°-30°	262.5	5.8
30°-40°	313.4	6.9
40°-50°	315.2	7.0
50°-60°	274.3	6.1
60°-70°	194.5	4.3
70°-80°	102.9	2.3
80°-90°	27.3	0.6
90°-100°	210.4	4.7
100°-110°	553.3	12.2
110°-120°	573.7	12.7
120°-130°	460.2	10.2
130°-140°	361.1	8.0
140°-150°	277.1	6.1
150°-160°	199.6	4.4
160°-170°	122.1	2.7
170°-180°	41.3	0.9
0°-30°	492.1	10.9
0°-40°	805.5	17.8
0°-60°	1395.0	30.9
0°-90°	1719.6	38.1
90°-120°	1337.4	29.6
90°-150°	2435.8	53.9
90°-180°	2799.0	61.9
0°-180°	4518.4	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°	3	11	3	11	3	3
95°	28	127	28	127	28	31
105°	100	866	100	866	100	106
115°	177	1116	177	1116	177	175
125°	246	888	246	888	246	219
135°	294	689	294	689	294	227
145°	340	559	340	559	340	213
155°	385	482	385	482	385	177
165°	415	449	415	449	415	117
175°	432	435	432	435	432	41
180°	432	432	432	432	432	



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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°	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.6	14.7	11.0	11.0
92.5°	11.6	31.3	50.9	55.9	78.6	108.9	124.0	108.7	78.0	55.1	52.9
95°	27.9	63.9	100.0	109.0	193.5	306.1	362.5	323.4	245.4	186.8	180.2
97.5°	48.1	79.9	111.7	119.6	260.6	448.5	542.4	517.7	468.5	431.5	418.8
100°	63.7	92.5	121.4	128.6	285.0	493.5	597.7	599.5	603.2	605.9	590.8
102.5°	77.1	104.0	130.9	137.6	296.2	507.7	613.4	644.9	707.7	754.8	741.9
105°	99.6	122.4	145.3	151.0	304.5	509.3	611.7	682.1	823.0	928.6	921.7
107.5°	122.8	144.1	165.3	170.7	306.1	486.6	576.9	675.1	871.6	1019.0	1020.7
110°	138.5	157.7	176.9	181.7	303.8	466.5	547.9	657.8	877.4	1042.2	1049.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.9	172.2	190.4	195.0	303.9	449.0	521.6	634.0	858.8	1027.4	1038.6
115°	177.0	193.9	210.8	215.0	306.7	428.8	490.0	598.3	814.9	977.3	992.7
117.5°	199.9	215.3	230.6	234.4	312.4	416.2	468.2	566.0	761.4	908.1	925.1
120°	213.3	227.7	242.1	245.7	317.0	412.0	459.5	548.9	727.5	861.4	878.0
122.5°	226.3	240.9	255.4	259.0	323.6	409.8	452.9	533.2	694.1	814.8	831.1
125°	246.3	259.6	272.8	276.1	332.7	408.0	445.7	514.0	650.6	753.1	768.1
127.5°	262.6	275.9	289.3	292.7	341.6	407.0	439.6	498.3	615.6	703.6	716.3
130°	271.3	285.6	300.0	303.7	348.2	407.5	437.3	489.5	593.9	672.2	683.9
132.5°	280.2	294.6	309.0	312.7	353.5	408.0	435.2	481.9	575.5	645.6	656.1
135°	293.5	306.6	319.8	323.0	359.3	407.6	431.7	470.9	549.2	607.9	617.0
137.5°	307.1	320.1	333.1	336.4	368.0	410.1	431.2	464.3	530.4	580.1	587.5
140°	318.5	330.4	342.4	345.4	373.3	410.5	429.1	457.7	514.8	557.7	564.7
142.5°	327.1	338.2	349.2	352.0	377.7	412.0	429.1	454.3	504.5	542.1	548.1
145°	340.4	350.1	359.8	362.2	383.5	412.0	426.2	446.8	487.8	518.7	523.2
147.5°	353.8	363.1	372.6	374.9	392.0	414.8	426.2	442.4	474.7	498.9	502.7
150°	362.5	371.0	379.5	381.6	396.5	416.3	426.2	439.9	467.2	487.6	490.6
152.5°	371.5	377.9	384.4	385.9	399.4	417.3	426.2	437.9	461.2	478.7	480.9
155°	384.8	389.6	394.3	395.5	405.8	419.4	426.2	435.5	454.0	467.9	469.4
157.5°	394.6	399.3	404.0	405.1	412.1	421.6	426.2	433.4	447.8	458.7	459.7
160°	401.3	404.9	408.5	409.4	415.0	422.5	426.2	432.4	444.8	454.1	454.6
162.5°	408.0	410.7	413.4	414.1	418.1	423.5	426.2	431.5	441.8	449.7	450.2
165°	415.2	417.6	420.1	420.7	422.6	425.0	426.2	430.0	437.4	443.1	443.7
167.5°	421.8	423.0	424.2	424.4	426.0	428.1	429.1	431.6	436.5	440.2	440.4
170°	426.2	427.3	428.6	428.8	428.9	429.0	429.1	431.6	436.5	440.2	440.2
172.5°	428.6	428.8	429.0	429.1	429.1	429.1	429.1	431.1	434.9	437.8	437.6
175°	431.7	431.7	431.7	431.7	430.9	429.7	429.1	430.3	432.8	434.6	434.6
177.5°	431.7	431.7	431.7	431.7	431.1	430.2	429.7	430.6	432.6	434.1	433.8
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



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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°	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.1	19.0	12.8	8.1
92.5°	44.1	35.3	44.1	52.9	55.1	78.0	108.7	124.0	108.9	78.6	55.9
95°	153.8	127.2	153.8	180.2	186.8	245.4	323.4	362.5	306.1	193.5	109.0
97.5°	368.4	317.9	368.4	418.8	431.5	468.5	517.7	542.4	448.5	260.6	119.6
100°	530.7	470.5	530.7	590.8	605.9	603.2	599.5	597.7	493.5	285.0	128.6
102.5°	690.4	638.9	690.4	741.9	754.8	707.7	644.9	613.4	507.7	296.2	137.6
105°	894.0	866.4	894.0	921.7	928.6	823.0	682.1	611.7	509.3	304.5	151.0
107.5°	1027.4	1034.2	1027.4	1020.7	1019.0	871.6	675.1	576.9	486.6	306.1	170.7
110°	1078.3	1107.2	1078.3	1049.4	1042.2	877.4	657.8	547.9	466.5	303.8	181.7



TEST NUMBER: P934635

CATALOG NUMBER: SQ4-FA-075U-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°	1082.9	1127.2	1082.9	1038.6	1027.4	858.8	634.0	521.6	449.0	303.9	195.0
115°	1054.2	1115.6	1054.2	992.7	977.3	814.9	598.3	490.0	428.8	306.7	215.0
117.5°	993.2	1061.4	993.2	925.1	908.1	761.4	566.0	468.2	416.2	312.4	234.4
120°	944.1	1010.3	944.1	878.0	861.4	727.5	548.9	459.5	412.0	317.0	245.7
122.5°	896.4	961.7	896.4	831.1	814.8	694.1	533.2	452.9	409.8	323.6	259.0
125°	828.2	888.3	828.2	768.1	753.1	650.6	514.0	445.7	408.0	332.7	276.1
127.5°	766.9	817.7	766.9	716.3	703.6	615.6	498.3	439.6	407.0	341.6	292.7
130°	730.8	777.7	730.8	683.9	672.2	593.9	489.5	437.3	407.5	348.2	303.7
132.5°	698.0	740.0	698.0	656.1	645.6	575.5	481.9	435.2	408.0	353.5	312.7
135°	653.2	689.3	653.2	617.0	607.9	549.2	470.9	431.7	407.6	359.3	323.0
137.5°	617.1	646.7	617.1	587.5	580.1	530.4	464.3	431.2	410.1	368.0	336.4
140°	592.4	620.1	592.4	564.7	557.7	514.8	457.7	429.1	410.5	373.3	345.4
142.5°	571.9	595.7	571.9	548.1	542.1	504.5	454.3	429.1	412.0	377.7	352.0
145°	541.2	559.2	541.2	523.2	518.7	487.8	446.8	426.2	412.0	383.5	362.2
147.5°	517.6	532.6	517.6	502.7	498.9	474.7	442.4	426.2	414.8	392.0	374.9
150°	502.8	514.9	502.8	490.6	487.6	467.2	439.9	426.2	416.3	396.5	381.6
152.5°	490.1	499.2	490.1	480.9	478.7	461.2	437.9	426.2	417.3	399.4	385.9
155°	475.5	481.6	475.5	469.4	467.9	454.0	435.5	426.2	419.4	405.8	395.5
157.5°	464.0	468.2	464.0	459.7	458.7	447.8	433.4	426.2	421.6	412.1	405.1
160°	457.1	459.5	457.1	454.6	454.1	444.8	432.4	426.2	422.5	415.0	409.4
162.5°	452.6	454.9	452.6	450.2	449.7	441.8	431.5	426.2	423.5	418.1	414.1
165°	446.1	448.6	446.1	443.7	443.1	437.4	430.0	426.2	425.0	422.6	420.7
167.5°	441.5	442.5	441.5	440.4	440.2	436.5	431.6	429.1	428.1	426.0	424.4
170°	440.2	440.2	440.2	440.2	440.2	436.5	431.6	429.1	429.0	428.9	428.8
172.5°	436.7	435.8	436.7	437.6	437.8	434.9	431.1	429.1	429.1	429.1	429.1
175°	434.6	434.6	434.6	434.6	434.6	432.8	430.3	429.1	429.7	430.9	431.7
177.5°	432.8	431.7	432.8	433.8	434.1	432.6	430.6	429.7	430.2	431.1	431.7
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934635

CATALOG NUMBER: SQ4-FA-075U-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°	7.6	5.2	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.6	14.7
92.5°	50.9	31.3	11.6	31.3	50.9	55.9	78.6	108.9	124.0	108.7	78.0
95°	100.0	63.9	27.9	63.9	100.0	109.0	193.5	306.1	362.5	323.4	245.4
97.5°	111.7	79.9	48.1	79.9	111.7	119.6	260.6	448.5	542.4	517.7	468.5
100°	121.4	92.5	63.7	92.5	121.4	128.6	285.0	493.5	597.7	599.5	603.2
102.5°	130.9	104.0	77.1	104.0	130.9	137.6	296.2	507.7	613.4	644.9	707.7
105°	145.3	122.4	99.6	122.4	145.3	151.0	304.5	509.3	611.7	682.1	823.0
107.5°	165.3	144.1	122.8	144.1	165.3	170.7	306.1	486.6	576.9	675.1	871.6
110°	176.9	157.7	138.5	157.7	176.9	181.7	303.8	466.5	547.9	657.8	877.4



TEST NUMBER: P934635

CATALOG NUMBER: SQ4-FA-075U-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°	190.4	172.2	153.9	172.2	190.4	195.0	303.9	449.0	521.6	634.0	858.8
115°	210.8	193.9	177.0	193.9	210.8	215.0	306.7	428.8	490.0	598.3	814.9
117.5°	230.6	215.3	199.9	215.3	230.6	234.4	312.4	416.2	468.2	566.0	761.4
120°	242.1	227.7	213.3	227.7	242.1	245.7	317.0	412.0	459.5	548.9	727.5
122.5°	255.4	240.9	226.3	240.9	255.4	259.0	323.6	409.8	452.9	533.2	694.1
125°	272.8	259.6	246.3	259.6	272.8	276.1	332.7	408.0	445.7	514.0	650.6
127.5°	289.3	275.9	262.6	275.9	289.3	292.7	341.6	407.0	439.6	498.3	615.6
130°	300.0	285.6	271.3	285.6	300.0	303.7	348.2	407.5	437.3	489.5	593.9
132.5°	309.0	294.6	280.2	294.6	309.0	312.7	353.5	408.0	435.2	481.9	575.5
135°	319.8	306.6	293.5	306.6	319.8	323.0	359.3	407.6	431.7	470.9	549.2
137.5°	333.1	320.1	307.1	320.1	333.1	336.4	368.0	410.1	431.2	464.3	530.4
140°	342.4	330.4	318.5	330.4	342.4	345.4	373.3	410.5	429.1	457.7	514.8
142.5°	349.2	338.2	327.1	338.2	349.2	352.0	377.7	412.0	429.1	454.3	504.5
145°	359.8	350.1	340.4	350.1	359.8	362.2	383.5	412.0	426.2	446.8	487.8
147.5°	372.6	363.1	353.8	363.1	372.6	374.9	392.0	414.8	426.2	442.4	474.7
150°	379.5	371.0	362.5	371.0	379.5	381.6	396.5	416.3	426.2	439.9	467.2
152.5°	384.4	377.9	371.5	377.9	384.4	385.9	399.4	417.3	426.2	437.9	461.2
155°	394.3	389.6	384.8	389.6	394.3	395.5	405.8	419.4	426.2	435.5	454.0
157.5°	404.0	399.3	394.6	399.3	404.0	405.1	412.1	421.6	426.2	433.4	447.8
160°	408.5	404.9	401.3	404.9	408.5	409.4	415.0	422.5	426.2	432.4	444.8
162.5°	413.4	410.7	408.0	410.7	413.4	414.1	418.1	423.5	426.2	431.5	441.8
165°	420.1	417.6	415.2	417.6	420.1	420.7	422.6	425.0	426.2	430.0	437.4
167.5°	424.2	423.0	421.8	423.0	424.2	424.4	426.0	428.1	429.1	431.6	436.5
170°	428.6	427.3	426.2	427.3	428.6	428.8	428.9	429.0	429.1	431.6	436.5
172.5°	429.0	428.8	428.6	428.8	429.0	429.1	429.1	429.1	429.1	431.1	434.9
175°	431.7	431.7	431.7	431.7	431.7	431.7	430.9	429.7	429.1	430.3	432.8
177.5°	431.7	431.7	431.7	431.7	431.7	431.7	431.1	430.2	429.7	430.6	432.6
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934635

CATALOG NUMBER: SQ4-FA-075U-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°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.1	19.0
92.5°	55.1	52.9	44.1	35.3	44.1	52.9	55.1	78.0	108.7	124.0	108.9
95°	186.8	180.2	153.8	127.2	153.8	180.2	186.8	245.4	323.4	362.5	306.1
97.5°	431.5	418.8	368.4	317.9	368.4	418.8	431.5	468.5	517.7	542.4	448.5
100°	605.9	590.8	530.7	470.5	530.7	590.8	605.9	603.2	599.5	597.7	493.5
102.5°	754.8	741.9	690.4	638.9	690.4	741.9	754.8	707.7	644.9	613.4	507.7
105°	928.6	921.7	894.0	866.4	894.0	921.7	928.6	823.0	682.1	611.7	509.3
107.5°	1019.0	1020.7	1027.4	1034.2	1027.4	1020.7	1019.0	871.6	675.1	576.9	486.6
110°	1042.2	1049.4	1078.3	1107.2	1078.3	1049.4	1042.2	877.4	657.8	547.9	466.5



TEST NUMBER: P934635

CATALOG NUMBER: SQ4-FA-075U-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°	1027.4	1038.6	1082.9	1127.2	1082.9	1038.6	1027.4	858.8	634.0	521.6	449.0
115°	977.3	992.7	1054.2	1115.6	1054.2	992.7	977.3	814.9	598.3	490.0	428.8
117.5°	908.1	925.1	993.2	1061.4	993.2	925.1	908.1	761.4	566.0	468.2	416.2
120°	861.4	878.0	944.1	1010.3	944.1	878.0	861.4	727.5	548.9	459.5	412.0
122.5°	814.8	831.1	896.4	961.7	896.4	831.1	814.8	694.1	533.2	452.9	409.8
125°	753.1	768.1	828.2	888.3	828.2	768.1	753.1	650.6	514.0	445.7	408.0
127.5°	703.6	716.3	766.9	817.7	766.9	716.3	703.6	615.6	498.3	439.6	407.0
130°	672.2	683.9	730.8	777.7	730.8	683.9	672.2	593.9	489.5	437.3	407.5
132.5°	645.6	656.1	698.0	740.0	698.0	656.1	645.6	575.5	481.9	435.2	408.0
135°	607.9	617.0	653.2	689.3	653.2	617.0	607.9	549.2	470.9	431.7	407.6
137.5°	580.1	587.5	617.1	646.7	617.1	587.5	580.1	530.4	464.3	431.2	410.1
140°	557.7	564.7	592.4	620.1	592.4	564.7	557.7	514.8	457.7	429.1	410.5
142.5°	542.1	548.1	571.9	595.7	571.9	548.1	542.1	504.5	454.3	429.1	412.0
145°	518.7	523.2	541.2	559.2	541.2	523.2	518.7	487.8	446.8	426.2	412.0
147.5°	498.9	502.7	517.6	532.6	517.6	502.7	498.9	474.7	442.4	426.2	414.8
150°	487.6	490.6	502.8	514.9	502.8	490.6	487.6	467.2	439.9	426.2	416.3
152.5°	478.7	480.9	490.1	499.2	490.1	480.9	478.7	461.2	437.9	426.2	417.3
155°	467.9	469.4	475.5	481.6	475.5	469.4	467.9	454.0	435.5	426.2	419.4
157.5°	458.7	459.7	464.0	468.2	464.0	459.7	458.7	447.8	433.4	426.2	421.6
160°	454.1	454.6	457.1	459.5	457.1	454.6	454.1	444.8	432.4	426.2	422.5
162.5°	449.7	450.2	452.6	454.9	452.6	450.2	449.7	441.8	431.5	426.2	423.5
165°	443.1	443.7	446.1	448.6	446.1	443.7	443.1	437.4	430.0	426.2	425.0
167.5°	440.2	440.4	441.5	442.5	441.5	440.4	440.2	436.5	431.6	429.1	428.1
170°	440.2	440.2	440.2	440.2	440.2	440.2	440.2	436.5	431.6	429.1	429.0
172.5°	437.8	437.6	436.7	435.8	436.7	437.6	437.8	434.9	431.1	429.1	429.1
175°	434.6	434.6	434.6	434.6	434.6	434.6	434.6	432.8	430.3	429.1	429.7
177.5°	434.1	433.8	432.8	431.7	432.8	433.8	434.1	432.6	430.6	429.7	430.2
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934635

CATALOG NUMBER: SQ4-FA-075U-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°	12.8	8.1	7.6	5.2	2.9
92.5°	78.6	55.9	50.9	31.3	11.6
95°	193.5	109.0	100.0	63.9	27.9
97.5°	260.6	119.6	111.7	79.9	48.1
100°	285.0	128.6	121.4	92.5	63.7
102.5°	296.2	137.6	130.9	104.0	77.1
105°	304.5	151.0	145.3	122.4	99.6
107.5°	306.1	170.7	165.3	144.1	122.8
110°	303.8	181.7	176.9	157.7	138.5



TEST NUMBER: P934635
 CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	303.9	195.0	190.4	172.2	153.9
115°	306.7	215.0	210.8	193.9	177.0
117.5°	312.4	234.4	230.6	215.3	199.9
120°	317.0	245.7	242.1	227.7	213.3
122.5°	323.6	259.0	255.4	240.9	226.3
125°	332.7	276.1	272.8	259.6	246.3
127.5°	341.6	292.7	289.3	275.9	262.6
130°	348.2	303.7	300.0	285.6	271.3
132.5°	353.5	312.7	309.0	294.6	280.2
135°	359.3	323.0	319.8	306.6	293.5
137.5°	368.0	336.4	333.1	320.1	307.1
140°	373.3	345.4	342.4	330.4	318.5
142.5°	377.7	352.0	349.2	338.2	327.1
145°	383.5	362.2	359.8	350.1	340.4
147.5°	392.0	374.9	372.6	363.1	353.8
150°	396.5	381.6	379.5	371.0	362.5
152.5°	399.4	385.9	384.4	377.9	371.5
155°	405.8	395.5	394.3	389.6	384.8
157.5°	412.1	405.1	404.0	399.3	394.6
160°	415.0	409.4	408.5	404.9	401.3
162.5°	418.1	414.1	413.4	410.7	408.0
165°	422.6	420.7	420.1	417.6	415.2
167.5°	426.0	424.4	424.2	423.0	421.8
170°	428.9	428.8	428.6	427.3	426.2
172.5°	429.1	429.1	429.0	428.8	428.6
175°	430.9	431.7	431.7	431.7	431.7
177.5°	431.1	431.7	431.7	431.7	431.7
180°	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934635
 CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-5000K

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	9.89	10.65	10.94	11.71	13.14	12.68	13.45	13.74	14.51	15.94
	3H	10.36	11.04	11.42	12.11	13.56	14.01	14.70	15.08	15.76	17.21
	4H	10.54	11.19	11.62	12.26	13.72	14.45	15.09	15.52	16.16	17.62
	6H	10.66	11.25	11.74	12.33	13.79	14.72	15.31	15.80	16.39	17.85
	8H	10.66	11.22	11.74	12.31	13.77	14.78	15.35	15.87	16.44	17.90
	12H	10.62	11.16	11.72	12.24	13.73	14.82	15.36	15.91	16.44	17.92
4H	2H	10.90	11.55	11.98	12.62	14.07	13.08	13.73	14.16	14.80	16.26
	3H	11.92	12.46	13.01	13.55	15.02	14.57	15.11	15.66	16.21	17.68
	4H	12.19	12.68	13.28	13.77	15.26	15.09	15.58	16.18	16.67	18.16
	6H	12.31	12.73	13.41	13.84	15.33	15.44	15.86	16.54	16.97	18.46
	8H	12.31	12.71	13.41	13.81	15.31	15.54	15.94	16.64	17.04	18.54
	12H	12.28	12.63	13.39	13.75	15.25	15.59	15.94	16.70	17.06	18.56
8H	4H	12.63	13.03	13.73	14.13	15.63	15.20	15.60	16.31	16.70	18.20
	6H	12.89	13.22	14.01	14.36	15.86	15.63	15.96	16.75	17.10	18.60
	8H	12.93	13.22	14.06	14.34	15.86	15.78	16.06	16.91	17.19	18.70
	12H	12.91	13.16	14.04	14.28	15.84	15.86	16.12	17.00	17.24	18.79
12H	4H	12.63	12.99	13.75	14.10	15.61	15.16	15.52	16.28	16.64	18.14
	6H	12.95	13.23	14.08	14.36	15.87	15.63	15.91	16.76	17.04	18.55
	8H	13.01	13.26	14.14	14.38	15.94	15.78	16.03	16.91	17.15	18.70