

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: P934806

Luminaire Tested: SQ4-FA-075U-075D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934806
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-075D-B50-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

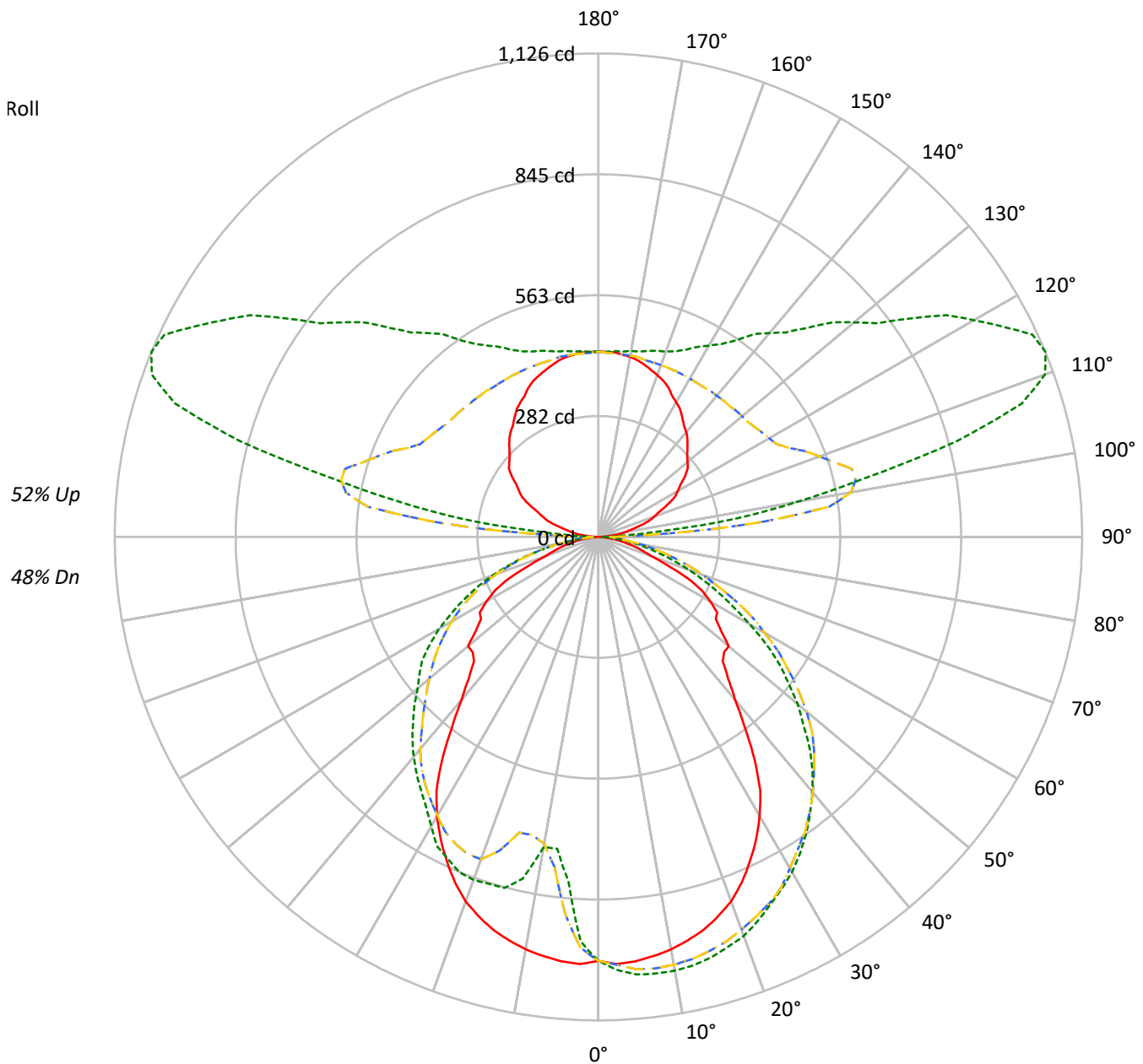
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5358.3 lumens
Efficiency: N/A
Efficacy: 126.4 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: General Diffuse

Input Watts (W): 42.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P934806
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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	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	82	79	72	70	68	60	58	56	48	47	46	40	40	40	40
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	54	56	51	47	46	43	40	37	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	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	33	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	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9161	9161	9161	9161
5°	9220	9249	9220	7272
10°	9148	9111	9148	6513
15°	9039	8914	9039	7442
20°	8839	8679	8839	7458
25°	8443	8338	8443	7300
30°	7932	8055	7932	6953
35°	7062	7697	7062	6572
40°	5874	7275	5874	6283
45°	5239	6782	5239	5952
50°	5553	6193	5553	5620
55°	5209	5560	5209	5427
60°	5349	4722	5349	4972
65°	4826	3903	4826	4364
70°	3321	3110	3321	3657
75°	2879	2298	2879	2753
80°	2275	1521	2275	1654
85°	1234	806	1234	685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	1.7
10°-20°	253.1	4.7
20°-30°	391.2	7.3
30°-40°	467.0	8.7
40°-50°	469.7	8.8
50°-60°	408.7	7.6
60°-70°	289.8	5.4
70°-80°	153.3	2.9
80°-90°	39.8	0.7
90°-100°	210.3	3.9
100°-110°	552.9	10.3
110°-120°	573.3	10.7
120°-130°	459.8	8.6
130°-140°	360.8	6.7
140°-150°	276.9	5.2
150°-160°	199.4	3.7
160°-170°	122.0	2.3
170°-180°	41.2	0.8
0°-30°	733.4	13.7
0°-40°	1200.3	22.4
0°-60°	2078.8	38.8
0°-90°	2561.7	47.8
90°-120°	1336.4	24.9
90°-150°	2433.9	45.4
90°-180°	2797.0	52.2
0°-180°	5358.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	987	987	987	987	987	
5°	992	1023	992	804	992	94
15°	947	1014	947	846	947	267
25°	834	945	834	828	834	383
35°	634	844	634	720	634	392
45°	409	695	409	610	409	328
55°	334	513	334	501	334	306
65°	232	309	232	346	232	221
75°	88	147	88	176	88	92
85°	15	37	15	32	15	20
90°	3	11	3	11	3	3
95°	28	127	28	127	28	31
105°	100	866	100	866	100	106
115°	177	1115	177	1115	177	175
125°	246	888	246	888	246	219
135°	293	689	293	689	293	227
145°	340	559	340	559	340	213
155°	384	481	384	481	384	177
165°	415	448	415	448	415	117
175°	431	434	431	434	431	41
180°	431	431	431	431	431	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	995.7	995.7	1001.4	1003.3	1003.3	1000.5	997.7	1000.5	1008.9	1011.7	1010.8
5°	992.0	999.6	1009.8	1011.7	1013.6	1012.6	1010.8	1012.6	1022.0	1023.9	1024.8
7.5°	984.5	998.6	1011.7	1014.5	1017.3	1014.5	1013.6	1015.4	1024.8	1026.7	1026.7
10°	975.2	994.8	1009.8	1011.7	1014.5	1011.7	1011.7	1015.4	1024.8	1026.7	1027.6
12.5°	962.1	989.2	1003.3	1005.2	1008.9	1008.0	1007.0	1010.8	1020.1	1022.0	1022.0
15°	947.2	978.9	992.0	993.9	1000.5	998.6	998.6	1002.4	1012.6	1015.4	1014.5
17.5°	926.6	965.8	980.8	983.6	988.3	987.3	988.3	992.0	1001.4	1003.3	1004.2
20°	903.3	948.1	965.8	968.7	973.3	973.3	973.3	978.0	987.3	991.1	991.1
22.5°	871.5	929.4	948.1	950.0	955.6	955.6	957.4	964.0	972.4	973.3	973.3
25°	834.2	908.9	924.8	930.4	936.0	938.8	941.6	945.3	948.1	947.2	948.1
27.5°	794.9	882.7	903.3	907.0	914.5	917.3	921.0	922.0	922.9	925.7	923.8
30°	751.0	846.3	877.1	880.9	893.0	894.9	891.1	893.0	897.7	899.5	901.4
32.5°	701.5	792.1	850.0	858.4	869.6	864.0	863.1	865.9	873.4	873.4	875.3
35°	634.3	750.1	824.8	832.3	840.7	834.2	837.9	838.8	843.5	846.3	845.4
37.5°	560.5	713.7	798.7	804.3	810.8	802.4	808.0	810.8	814.5	812.7	812.7
40°	495.1	656.7	767.8	771.6	777.2	770.6	776.2	778.1	780.0	778.1	777.2
42.5°	446.5	594.1	735.2	739.8	736.1	740.8	742.6	746.4	743.6	739.8	739.8
45°	409.2	577.3	699.7	705.3	699.7	707.1	709.9	709.9	701.5	699.7	698.7
47.5°	397.0	543.7	664.2	664.2	661.4	670.7	675.4	668.8	660.4	657.6	657.6
50°	396.1	506.3	615.6	611.9	624.9	636.1	631.5	624.9	618.4	608.1	608.1
52.5°	359.7	460.6	553.0	567.0	587.6	594.1	586.6	580.1	568.9	564.2	560.5
55°	333.5	412.9	496.0	524.1	545.5	554.0	539.9	533.4	516.6	513.8	511.9
57.5°	327.8	343.8	443.7	479.2	505.4	504.5	496.0	483.9	469.9	467.1	466.2
60°	300.7	248.4	387.7	429.7	456.8	454.0	446.5	435.3	422.3	420.4	418.5
62.5°	272.7	180.3	324.1	371.8	410.1	409.2	402.6	385.8	376.5	371.8	368.1
65°	231.6	151.3	230.7	309.2	364.4	366.2	352.2	340.1	329.7	324.1	323.2
67.5°	176.5	123.3	156.0	257.8	320.4	318.5	300.7	295.1	282.1	279.3	273.7
70°	130.8	82.2	108.3	209.2	277.4	272.7	258.7	252.2	240.0	233.5	229.8
72.5°	108.3	66.3	79.4	162.5	233.5	227.9	215.8	208.3	198.0	192.4	188.7
75°	87.8	70.0	60.7	120.5	189.6	185.9	174.7	167.2	158.8	151.3	152.2
77.5°	64.4	65.4	48.6	88.7	150.4	144.8	138.2	128.9	125.2	117.7	117.7
80°	48.6	51.4	36.4	60.7	108.3	108.3	102.7	96.2	89.7	85.9	85.9
82.5°	32.7	32.7	27.1	38.3	73.8	71.0	67.2	65.4	61.6	59.8	59.8
85°	14.9	18.7	16.8	23.4	40.2	42.0	42.0	40.2	39.2	37.4	38.3
87.5°	4.7	8.4	10.3	13.1	20.5	21.5	22.4	22.4	22.4	23.4	23.4
90°	2.9	5.2	7.6	8.1	12.8	19.0	22.0	19.6	14.7	11.0	11.0
92.5°	11.6	31.3	50.9	55.9	78.5	108.8	123.9	108.6	78.0	55.0	52.9
95°	27.8	63.9	99.9	108.9	193.3	305.9	362.2	323.2	245.2	186.7	180.1
97.5°	48.1	79.9	111.6	119.6	260.4	448.1	542.0	517.3	468.1	431.1	418.5
100°	63.7	92.5	121.3	128.5	284.8	493.2	597.3	599.1	602.7	605.4	590.4
102.5°	77.1	104.0	130.8	137.5	296.0	507.3	613.0	644.4	707.1	754.2	741.3
105°	99.6	122.4	145.1	150.8	304.3	508.9	611.2	681.6	822.4	927.9	921.0
107.5°	122.7	144.0	165.2	170.5	305.9	486.2	576.5	674.6	871.0	1018.2	1019.9
110°	138.4	157.6	176.8	181.6	303.6	466.2	547.5	657.3	876.7	1041.4	1048.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.7	172.0	190.3	194.8	303.6	448.7	521.2	633.5	858.2	1026.7	1037.8
115°	176.9	193.7	210.6	214.8	306.4	428.5	489.6	597.9	814.3	976.6	991.9
117.5°	199.8	215.1	230.4	234.2	312.1	415.9	467.8	565.5	760.8	907.4	924.4
120°	213.1	227.5	241.9	245.5	316.7	411.7	459.2	548.4	726.9	860.8	877.3
122.5°	226.1	240.7	255.2	258.8	323.4	409.5	452.5	532.8	693.6	814.2	830.5
125°	246.1	259.4	272.6	275.9	332.4	407.7	445.3	513.6	650.2	752.5	767.6
127.5°	262.4	275.7	289.1	292.4	341.4	406.7	439.3	497.9	615.1	703.0	715.7
130°	271.0	285.4	299.8	303.5	347.9	407.2	436.9	489.1	593.5	671.7	683.4
132.5°	280.0	294.4	308.8	312.4	353.2	407.7	434.9	481.6	575.1	645.1	655.6
135°	293.3	306.4	319.5	322.8	359.0	407.3	431.4	470.5	548.8	607.5	616.5
137.5°	306.9	319.9	332.9	336.1	367.7	409.8	430.9	463.9	530.0	579.6	587.0
140°	318.2	330.2	342.1	345.1	373.0	410.2	428.8	457.4	514.4	557.3	564.2
142.5°	326.9	337.9	348.9	351.7	377.4	411.7	428.8	453.9	504.1	541.7	547.7
145°	340.2	349.9	359.5	361.9	383.2	411.7	425.9	446.5	487.5	518.3	522.8
147.5°	353.5	362.9	372.3	374.6	391.7	414.5	425.9	442.1	474.4	498.6	502.3
150°	362.2	370.7	379.2	381.4	396.2	416.0	425.9	439.5	466.8	487.3	490.3
152.5°	371.2	377.6	384.1	385.6	399.1	416.9	425.9	437.6	460.8	478.3	480.5
155°	384.5	389.3	394.0	395.2	405.4	419.1	425.9	435.2	453.6	467.6	469.1
157.5°	394.3	399.0	403.7	404.8	411.8	421.2	425.9	433.1	447.5	458.3	459.3
160°	401.0	404.6	408.2	409.1	414.7	422.2	425.9	432.1	444.5	453.7	454.3
162.5°	407.7	410.4	413.1	413.8	417.8	423.2	425.9	431.1	441.5	449.3	449.9
165°	414.9	417.3	419.7	420.4	422.3	424.7	425.9	429.6	437.1	442.7	443.4
167.5°	421.5	422.6	423.8	424.1	425.7	427.8	428.8	431.2	436.2	439.8	440.1
170°	425.9	427.0	428.2	428.5	428.6	428.7	428.8	431.2	436.2	439.8	439.8
172.5°	428.2	428.5	428.7	428.8	428.8	428.8	428.8	430.8	434.6	437.5	437.3
175°	431.4	431.4	431.4	431.4	430.6	429.4	428.8	430.0	432.4	434.3	434.3
177.5°	431.4	431.4	431.4	431.4	430.8	429.8	429.4	430.3	432.3	433.7	433.5
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	1012.6	1009.8	1012.6	1010.8	1011.7	1008.9	1000.5	997.7	1000.5	1003.3	1003.3
5°	1024.8	1022.9	1024.8	1024.8	1023.9	1022.0	1012.6	1010.8	1012.6	1013.6	1011.7
7.5°	1028.5	1025.7	1028.5	1026.7	1026.7	1024.8	1015.4	1013.6	1014.5	1017.3	1014.5
10°	1028.5	1025.7	1028.5	1027.6	1026.7	1024.8	1015.4	1011.7	1011.7	1014.5	1011.7
12.5°	1023.9	1022.0	1023.9	1022.0	1022.0	1020.1	1010.8	1007.0	1008.0	1008.9	1005.2
15°	1016.4	1013.6	1016.4	1014.5	1015.4	1012.6	1002.4	998.6	998.6	1000.5	993.9
17.5°	1005.2	1001.4	1005.2	1004.2	1003.3	1001.4	992.0	988.3	987.3	988.3	983.6
20°	992.0	989.2	992.0	991.1	991.1	987.3	978.0	973.3	973.3	973.3	968.7
22.5°	971.5	968.7	971.5	973.3	973.3	972.4	964.0	957.4	955.6	955.6	950.0
25°	948.1	945.3	948.1	948.1	947.2	948.1	945.3	941.6	938.8	936.0	930.4
27.5°	925.7	923.8	925.7	923.8	925.7	922.9	922.0	921.0	917.3	914.5	907.0
30°	903.3	901.4	903.3	901.4	899.5	897.7	893.0	891.1	894.9	893.0	880.9
32.5°	875.3	873.4	875.3	875.3	873.4	873.4	865.9	863.1	864.0	869.6	858.4
35°	846.3	843.5	846.3	845.4	846.3	843.5	838.8	837.9	834.2	840.7	832.3
37.5°	812.7	809.9	812.7	812.7	812.7	814.5	810.8	808.0	802.4	810.8	804.3
40°	778.1	774.4	778.1	777.2	778.1	780.0	778.1	776.2	770.6	777.2	771.6
42.5°	738.9	738.0	738.9	739.8	739.8	743.6	746.4	742.6	740.8	736.1	739.8
45°	696.9	695.0	696.9	698.7	699.7	701.5	709.9	709.9	707.1	699.7	705.3
47.5°	652.0	647.4	652.0	657.6	657.6	660.4	668.8	675.4	670.7	661.4	664.2
50°	604.4	605.3	604.4	608.1	608.1	618.4	624.9	631.5	636.1	624.9	611.9
52.5°	557.7	556.8	557.7	560.5	564.2	568.9	580.1	586.6	594.1	587.6	567.0
55°	511.0	512.9	511.0	511.9	513.8	516.6	533.4	539.9	554.0	545.5	524.1
57.5°	464.3	461.5	464.3	466.2	467.1	469.9	483.9	496.0	504.5	505.4	479.2
60°	410.1	406.4	410.1	418.5	420.4	422.3	435.3	446.5	454.0	456.8	429.7
62.5°	362.5	355.9	362.5	368.1	371.8	376.5	385.8	402.6	409.2	410.1	371.8
65°	312.0	309.2	312.0	323.2	324.1	329.7	340.1	352.2	366.2	364.4	309.2
67.5°	266.2	266.2	266.2	273.7	279.3	282.1	295.1	300.7	318.5	320.4	257.8
70°	224.2	223.2	224.2	229.8	233.5	240.0	252.2	258.7	272.7	277.4	209.2
72.5°	184.0	183.1	184.0	188.7	192.4	198.0	208.3	215.8	227.9	233.5	162.5
75°	148.5	146.6	148.5	152.2	151.3	158.8	167.2	174.7	185.9	189.6	120.5
77.5°	113.9	113.9	113.9	117.7	117.7	125.2	128.9	138.2	144.8	150.4	88.7
80°	85.0	84.1	85.0	85.9	85.9	89.7	96.2	102.7	108.3	108.3	60.7
82.5°	59.8	57.9	59.8	59.8	59.8	61.6	65.4	67.2	71.0	73.8	38.3
85°	37.4	37.4	37.4	38.3	37.4	39.2	40.2	42.0	42.0	40.2	23.4
87.5°	24.3	23.4	24.3	23.4	23.4	22.4	22.4	22.4	21.5	20.5	13.1
90°	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.0	19.0	12.8	8.1
92.5°	44.1	35.3	44.1	52.9	55.0	78.0	108.6	123.9	108.8	78.5	55.9
95°	153.6	127.1	153.6	180.1	186.7	245.2	323.2	362.2	305.9	193.3	108.9
97.5°	368.1	317.7	368.1	418.5	431.1	468.1	517.3	542.0	448.1	260.4	119.6
100°	530.3	470.2	530.3	590.4	605.4	602.7	599.1	597.3	493.2	284.8	128.5
102.5°	689.9	638.4	689.9	741.3	754.2	707.1	644.4	613.0	507.3	296.0	137.5
105°	893.4	865.7	893.4	921.0	927.9	822.4	681.6	611.2	508.9	304.3	150.8
107.5°	1026.7	1033.4	1026.7	1019.9	1018.2	871.0	674.6	576.5	486.2	305.9	170.5
110°	1077.5	1106.3	1077.5	1048.6	1041.4	876.7	657.3	547.5	466.2	303.6	181.6



TEST NUMBER: P934806

CATALOG NUMBER: SQ4-FA-075U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1082.0	1126.3	1082.0	1037.8	1026.7	858.2	633.5	521.2	448.7	303.6	194.8
115°	1053.4	1114.7	1053.4	991.9	976.6	814.3	597.9	489.6	428.5	306.4	214.8
117.5°	992.5	1060.6	992.5	924.4	907.4	760.8	565.5	467.8	415.9	312.1	234.2
120°	943.4	1009.6	943.4	877.3	860.8	726.9	548.4	459.2	411.7	316.7	245.5
122.5°	895.7	961.0	895.7	830.5	814.2	693.6	532.8	452.5	409.5	323.4	258.8
125°	827.6	887.7	827.6	767.6	752.5	650.2	513.6	445.3	407.7	332.4	275.9
127.5°	766.3	817.1	766.3	715.7	703.0	615.1	497.9	439.3	406.7	341.4	292.4
130°	730.3	777.1	730.3	683.4	671.7	593.5	489.1	436.9	407.2	347.9	303.5
132.5°	697.5	739.4	697.5	655.6	645.1	575.1	481.6	434.9	407.7	353.2	312.4
135°	652.7	688.8	652.7	616.5	607.5	548.8	470.5	431.4	407.3	359.0	322.8
137.5°	616.6	646.2	616.6	587.0	579.6	530.0	463.9	430.9	409.8	367.7	336.1
140°	592.0	619.6	592.0	564.2	557.3	514.4	457.4	428.8	410.2	373.0	345.1
142.5°	571.4	595.2	571.4	547.7	541.7	504.1	453.9	428.8	411.7	377.4	351.7
145°	540.8	558.8	540.8	522.8	518.3	487.5	446.5	425.9	411.7	383.2	361.9
147.5°	517.2	532.2	517.2	502.3	498.6	474.4	442.1	425.9	414.5	391.7	374.6
150°	502.4	514.5	502.4	490.3	487.3	466.8	439.5	425.9	416.0	396.2	381.4
152.5°	489.7	498.8	489.7	480.5	478.3	460.8	437.6	425.9	416.9	399.1	385.6
155°	475.1	481.2	475.1	469.1	467.6	453.6	435.2	425.9	419.1	405.4	395.2
157.5°	463.6	467.8	463.6	459.3	458.3	447.5	433.1	425.9	421.2	411.8	404.8
160°	456.7	459.2	456.7	454.3	453.7	444.5	432.1	425.9	422.2	414.7	409.1
162.5°	452.2	454.6	452.2	449.9	449.3	441.5	431.1	425.9	423.2	417.8	413.8
165°	445.8	448.2	445.8	443.4	442.7	437.1	429.6	425.9	424.7	422.3	420.4
167.5°	441.1	442.2	441.1	440.1	439.8	436.2	431.2	428.8	427.8	425.7	424.1
170°	439.8	439.8	439.8	439.8	439.8	436.2	431.2	428.8	428.7	428.6	428.5
172.5°	436.4	435.4	436.4	437.3	437.5	434.6	430.8	428.8	428.8	428.8	428.8
175°	434.3	434.3	434.3	434.3	434.3	432.4	430.0	428.8	429.4	430.6	431.4
177.5°	432.4	431.4	432.4	433.5	433.7	432.3	430.3	429.4	429.8	430.8	431.4
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P934806
 CATALOG NUMBER: SQ4-FA-075U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	1001.4	995.7	995.7	986.4	982.7	979.9	975.2	961.2	957.4	953.7	959.3
5°	1009.8	999.6	992.0	975.2	961.2	955.6	937.8	904.2	881.8	865.0	855.6
7.5°	1011.7	998.6	984.5	958.4	924.8	909.8	855.6	794.0	777.2	762.2	752.9
10°	1009.8	994.8	975.2	936.0	856.6	830.4	776.2	736.1	725.8	723.0	725.8
12.5°	1003.3	989.2	962.1	896.7	785.6	767.8	736.1	712.7	710.9	715.5	740.8
15°	992.0	978.9	947.2	844.4	746.4	733.3	710.9	702.5	712.7	745.4	821.1
17.5°	980.8	965.8	926.6	793.1	716.5	707.1	691.3	708.1	766.0	809.9	835.1
20°	965.8	948.1	903.3	755.7	695.0	686.6	679.1	754.8	798.7	814.5	828.6
22.5°	948.1	929.4	871.5	729.5	672.6	666.0	670.7	780.9	798.7	809.9	822.0
25°	924.8	908.9	834.2	709.0	654.8	647.4	665.1	778.1	788.4	791.2	815.5
27.5°	903.3	882.7	794.9	690.3	633.3	630.5	669.8	766.0	773.4	776.2	802.4
30°	877.1	846.3	751.0	670.7	610.9	610.0	670.7	751.0	749.2	756.6	782.8
32.5°	850.0	792.1	701.5	646.4	589.4	588.5	664.2	728.6	726.7	737.0	756.6
35°	824.8	750.1	634.3	618.4	562.4	563.3	648.3	702.5	703.4	712.7	724.9
37.5°	798.7	713.7	560.5	587.6	536.2	536.2	626.8	678.2	676.3	679.1	695.9
40°	767.8	656.7	495.1	547.4	511.9	509.1	600.7	652.0	645.5	644.6	667.9
42.5°	735.2	594.1	446.5	494.2	483.9	480.2	568.9	620.3	608.1	610.9	640.8
45°	699.7	577.3	409.2	417.6	455.0	452.1	534.3	583.8	575.4	582.9	613.7
47.5°	664.2	543.7	397.0	346.6	424.1	423.2	496.0	548.4	543.7	551.2	583.8
50°	615.6	506.3	396.1	297.0	389.6	393.3	450.3	513.8	513.8	520.3	554.9
52.5°	553.0	460.6	359.7	269.0	349.4	360.6	410.1	483.9	485.8	492.3	523.1
55°	496.0	412.9	333.5	247.5	301.7	326.0	370.9	453.1	456.8	463.4	491.4
57.5°	443.7	343.8	327.8	222.3	257.8	281.1	336.3	423.2	425.1	430.7	457.8
60°	387.7	248.4	300.7	195.2	219.5	237.2	304.5	387.7	394.2	398.0	421.3
62.5°	324.1	180.3	272.7	176.5	200.8	204.5	278.3	354.1	362.5	365.3	379.3
65°	230.7	151.3	231.6	160.6	181.2	182.1	250.3	319.4	326.9	331.6	341.9
67.5°	156.0	123.3	176.5	145.7	166.3	167.2	223.2	279.3	289.5	293.3	299.8
70°	108.3	82.2	130.8	129.8	149.4	151.3	194.3	242.8	252.2	255.0	258.7
72.5°	79.4	66.3	108.3	116.8	131.7	133.6	164.4	201.7	211.1	213.9	215.8
75°	60.7	70.0	87.8	101.8	112.1	113.0	134.5	164.4	170.9	172.8	173.7
77.5°	48.6	65.4	64.4	82.2	91.5	89.7	105.5	127.0	132.6	132.6	132.6
80°	36.4	51.4	48.6	58.8	67.2	65.4	75.7	90.6	92.5	94.3	93.4
82.5°	27.1	32.7	32.7	37.4	44.8	43.0	50.4	58.8	58.8	58.8	60.7
85°	16.8	18.7	14.9	19.6	25.2	24.3	28.0	31.8	32.7	32.7	30.8
87.5°	10.3	8.4	4.7	7.5	11.2	11.2	13.1	14.0	13.1	13.1	13.1
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.8	19.0	22.0	19.6	14.7
92.5°	50.9	31.3	11.6	31.3	50.9	55.9	78.5	108.8	123.9	108.6	78.0
95°	99.9	63.9	27.8	63.9	99.9	108.9	193.3	305.9	362.2	323.2	245.2
97.5°	111.6	79.9	48.1	79.9	111.6	119.6	260.4	448.1	542.0	517.3	468.1
100°	121.3	92.5	63.7	92.5	121.3	128.5	284.8	493.2	597.3	599.1	602.7
102.5°	130.8	104.0	77.1	104.0	130.8	137.5	296.0	507.3	613.0	644.4	707.1
105°	145.1	122.4	99.6	122.4	145.1	150.8	304.3	508.9	611.2	681.6	822.4
107.5°	165.2	144.0	122.7	144.0	165.2	170.5	305.9	486.2	576.5	674.6	871.0
110°	176.8	157.6	138.4	157.6	176.8	181.6	303.6	466.2	547.5	657.3	876.7



TEST NUMBER: P934806

CATALOG NUMBER: SQ4-FA-075U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	190.3	172.0	153.7	172.0	190.3	194.8	303.6	448.7	521.2	633.5	858.2
115°	210.6	193.7	176.9	193.7	210.6	214.8	306.4	428.5	489.6	597.9	814.3
117.5°	230.4	215.1	199.8	215.1	230.4	234.2	312.1	415.9	467.8	565.5	760.8
120°	241.9	227.5	213.1	227.5	241.9	245.5	316.7	411.7	459.2	548.4	726.9
122.5°	255.2	240.7	226.1	240.7	255.2	258.8	323.4	409.5	452.5	532.8	693.6
125°	272.6	259.4	246.1	259.4	272.6	275.9	332.4	407.7	445.3	513.6	650.2
127.5°	289.1	275.7	262.4	275.7	289.1	292.4	341.4	406.7	439.3	497.9	615.1
130°	299.8	285.4	271.0	285.4	299.8	303.5	347.9	407.2	436.9	489.1	593.5
132.5°	308.8	294.4	280.0	294.4	308.8	312.4	353.2	407.7	434.9	481.6	575.1
135°	319.5	306.4	293.3	306.4	319.5	322.8	359.0	407.3	431.4	470.5	548.8
137.5°	332.9	319.9	306.9	319.9	332.9	336.1	367.7	409.8	430.9	463.9	530.0
140°	342.1	330.2	318.2	330.2	342.1	345.1	373.0	410.2	428.8	457.4	514.4
142.5°	348.9	337.9	326.9	337.9	348.9	351.7	377.4	411.7	428.8	453.9	504.1
145°	359.5	349.9	340.2	349.9	359.5	361.9	383.2	411.7	425.9	446.5	487.5
147.5°	372.3	362.9	353.5	362.9	372.3	374.6	391.7	414.5	425.9	442.1	474.4
150°	379.2	370.7	362.2	370.7	379.2	381.4	396.2	416.0	425.9	439.5	466.8
152.5°	384.1	377.6	371.2	377.6	384.1	385.6	399.1	416.9	425.9	437.6	460.8
155°	394.0	389.3	384.5	389.3	394.0	395.2	405.4	419.1	425.9	435.2	453.6
157.5°	403.7	399.0	394.3	399.0	403.7	404.8	411.8	421.2	425.9	433.1	447.5
160°	408.2	404.6	401.0	404.6	408.2	409.1	414.7	422.2	425.9	432.1	444.5
162.5°	413.1	410.4	407.7	410.4	413.1	413.8	417.8	423.2	425.9	431.1	441.5
165°	419.7	417.3	414.9	417.3	419.7	420.4	422.3	424.7	425.9	429.6	437.1
167.5°	423.8	422.6	421.5	422.6	423.8	424.1	425.7	427.8	428.8	431.2	436.2
170°	428.2	427.0	425.9	427.0	428.2	428.5	428.6	428.7	428.8	431.2	436.2
172.5°	428.7	428.5	428.2	428.5	428.7	428.8	428.8	428.8	428.8	430.8	434.6
175°	431.4	431.4	431.4	431.4	431.4	431.4	430.6	429.4	428.8	430.0	432.4
177.5°	431.4	431.4	431.4	431.4	431.4	431.4	430.8	429.8	429.4	430.3	432.3
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P934806
 CATALOG NUMBER: SQ4-FA-075U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	952.8	950.0	953.7	943.4	953.7	950.0	952.8	959.3	953.7	957.4	961.2
5°	836.0	831.4	816.4	804.3	816.4	831.4	836.0	855.6	865.0	881.8	904.2
7.5°	747.3	743.6	739.8	732.3	739.8	743.6	747.3	752.9	762.2	777.2	794.0
10°	727.7	728.6	734.2	733.3	734.2	728.6	727.7	725.8	723.0	725.8	736.1
12.5°	778.1	786.5	817.3	815.5	817.3	786.5	778.1	740.8	715.5	710.9	712.7
15°	836.0	838.8	845.4	846.3	845.4	838.8	836.0	821.1	745.4	712.7	702.5
17.5°	841.6	842.6	847.2	847.2	847.2	842.6	841.6	835.1	809.9	766.0	708.1
20°	837.0	838.8	848.2	850.0	848.2	838.8	837.0	828.6	814.5	798.7	754.8
22.5°	835.1	838.8	846.3	845.4	846.3	838.8	835.1	822.0	809.9	798.7	780.9
25°	825.7	825.7	826.7	827.6	826.7	825.7	825.7	815.5	791.2	788.4	778.1
27.5°	806.1	808.0	813.6	812.7	813.6	808.0	806.1	802.4	776.2	773.4	766.0
30°	788.4	786.5	781.9	778.1	781.9	786.5	788.4	782.8	756.6	749.2	751.0
32.5°	758.5	753.8	749.2	746.4	749.2	753.8	758.5	756.6	737.0	726.7	728.6
35°	723.0	723.9	723.0	720.2	723.0	723.9	723.0	724.9	712.7	703.4	702.5
37.5°	697.8	699.7	698.7	695.0	698.7	699.7	697.8	695.9	679.1	676.3	678.2
40°	671.6	672.6	671.6	668.8	671.6	672.6	671.6	667.9	644.6	645.5	652.0
42.5°	646.4	645.5	642.7	640.8	642.7	645.5	646.4	640.8	610.9	608.1	620.3
45°	617.5	618.4	612.8	610.0	612.8	618.4	617.5	613.7	582.9	575.4	583.8
47.5°	588.5	588.5	583.8	581.0	583.8	588.5	588.5	583.8	551.2	543.7	548.4
50°	557.7	556.8	550.2	549.3	550.2	556.8	557.7	554.9	520.3	513.8	513.8
52.5°	522.2	522.2	523.1	525.0	523.1	522.2	522.2	523.1	492.3	485.8	483.9
55°	491.4	492.3	498.8	500.7	498.8	492.3	491.4	491.4	463.4	456.8	453.1
57.5°	459.6	459.6	464.3	464.3	464.3	459.6	459.6	457.8	430.7	425.1	423.2
60°	423.2	425.1	428.8	427.9	428.8	425.1	423.2	421.3	398.0	394.2	387.7
62.5°	384.9	386.8	387.7	385.8	387.7	386.8	384.9	379.3	365.3	362.5	354.1
65°	344.7	346.6	347.5	345.7	347.5	346.6	344.7	341.9	331.6	326.9	319.4
67.5°	303.6	302.6	301.7	305.4	301.7	302.6	303.6	299.8	293.3	289.5	279.3
70°	261.5	261.5	260.6	262.5	260.6	261.5	261.5	258.7	255.0	252.2	242.8
72.5°	216.7	215.8	219.5	216.7	219.5	215.8	216.7	215.8	213.9	211.1	201.7
75°	172.8	174.7	172.8	175.6	172.8	174.7	172.8	173.7	172.8	170.9	164.4
77.5°	131.7	133.6	131.7	131.7	131.7	133.6	131.7	132.6	132.6	132.6	127.0
80°	93.4	92.5	92.5	91.5	92.5	92.5	93.4	93.4	94.3	92.5	90.6
82.5°	59.8	58.8	58.8	60.7	58.8	58.8	59.8	60.7	58.8	58.8	58.8
85°	32.7	33.6	31.8	31.8	31.8	33.6	32.7	30.8	32.7	32.7	31.8
87.5°	12.1	11.2	11.2	11.2	11.2	11.2	12.1	13.1	13.1	13.1	14.0
90°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.0	19.0
92.5°	55.0	52.9	44.1	35.3	44.1	52.9	55.0	78.0	108.6	123.9	108.8
95°	186.7	180.1	153.6	127.1	153.6	180.1	186.7	245.2	323.2	362.2	305.9
97.5°	431.1	418.5	368.1	317.7	368.1	418.5	431.1	468.1	517.3	542.0	448.1
100°	605.4	590.4	530.3	470.2	530.3	590.4	605.4	602.7	599.1	597.3	493.2
102.5°	754.2	741.3	689.9	638.4	689.9	741.3	754.2	707.1	644.4	613.0	507.3
105°	927.9	921.0	893.4	865.7	893.4	921.0	927.9	822.4	681.6	611.2	508.9
107.5°	1018.2	1019.9	1026.7	1033.4	1026.7	1019.9	1018.2	871.0	674.6	576.5	486.2
110°	1041.4	1048.6	1077.5	1106.3	1077.5	1048.6	1041.4	876.7	657.3	547.5	466.2



TEST NUMBER: P934806

CATALOG NUMBER: SQ4-FA-075U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1026.7	1037.8	1082.0	1126.3	1082.0	1037.8	1026.7	858.2	633.5	521.2	448.7
115°	976.6	991.9	1053.4	1114.7	1053.4	991.9	976.6	814.3	597.9	489.6	428.5
117.5°	907.4	924.4	992.5	1060.6	992.5	924.4	907.4	760.8	565.5	467.8	415.9
120°	860.8	877.3	943.4	1009.6	943.4	877.3	860.8	726.9	548.4	459.2	411.7
122.5°	814.2	830.5	895.7	961.0	895.7	830.5	814.2	693.6	532.8	452.5	409.5
125°	752.5	767.6	827.6	887.7	827.6	767.6	752.5	650.2	513.6	445.3	407.7
127.5°	703.0	715.7	766.3	817.1	766.3	715.7	703.0	615.1	497.9	439.3	406.7
130°	671.7	683.4	730.3	777.1	730.3	683.4	671.7	593.5	489.1	436.9	407.2
132.5°	645.1	655.6	697.5	739.4	697.5	655.6	645.1	575.1	481.6	434.9	407.7
135°	607.5	616.5	652.7	688.8	652.7	616.5	607.5	548.8	470.5	431.4	407.3
137.5°	579.6	587.0	616.6	646.2	616.6	587.0	579.6	530.0	463.9	430.9	409.8
140°	557.3	564.2	592.0	619.6	592.0	564.2	557.3	514.4	457.4	428.8	410.2
142.5°	541.7	547.7	571.4	595.2	571.4	547.7	541.7	504.1	453.9	428.8	411.7
145°	518.3	522.8	540.8	558.8	540.8	522.8	518.3	487.5	446.5	425.9	411.7
147.5°	498.6	502.3	517.2	532.2	517.2	502.3	498.6	474.4	442.1	425.9	414.5
150°	487.3	490.3	502.4	514.5	502.4	490.3	487.3	466.8	439.5	425.9	416.0
152.5°	478.3	480.5	489.7	498.8	489.7	480.5	478.3	460.8	437.6	425.9	416.9
155°	467.6	469.1	475.1	481.2	475.1	469.1	467.6	453.6	435.2	425.9	419.1
157.5°	458.3	459.3	463.6	467.8	463.6	459.3	458.3	447.5	433.1	425.9	421.2
160°	453.7	454.3	456.7	459.2	456.7	454.3	453.7	444.5	432.1	425.9	422.2
162.5°	449.3	449.9	452.2	454.6	452.2	449.9	449.3	441.5	431.1	425.9	423.2
165°	442.7	443.4	445.8	448.2	445.8	443.4	442.7	437.1	429.6	425.9	424.7
167.5°	439.8	440.1	441.1	442.2	441.1	440.1	439.8	436.2	431.2	428.8	427.8
170°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	436.2	431.2	428.8	428.7
172.5°	437.5	437.3	436.4	435.4	436.4	437.3	437.5	434.6	430.8	428.8	428.8
175°	434.3	434.3	434.3	434.3	434.3	434.3	434.3	432.4	430.0	428.8	429.4
177.5°	433.7	433.5	432.4	431.4	432.4	433.5	433.7	432.3	430.3	429.4	429.8
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P934806

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	987.3	987.3	987.3	987.3	987.3
2.5°	975.2	979.9	982.7	986.4	995.7
5°	937.8	955.6	961.2	975.2	992.0
7.5°	855.6	909.8	924.8	958.4	984.5
10°	776.2	830.4	856.6	936.0	975.2
12.5°	736.1	767.8	785.6	896.7	962.1
15°	710.9	733.3	746.4	844.4	947.2
17.5°	691.3	707.1	716.5	793.1	926.6
20°	679.1	686.6	695.0	755.7	903.3
22.5°	670.7	666.0	672.6	729.5	871.5
25°	665.1	647.4	654.8	709.0	834.2
27.5°	669.8	630.5	633.3	690.3	794.9
30°	670.7	610.0	610.9	670.7	751.0
32.5°	664.2	588.5	589.4	646.4	701.5
35°	648.3	563.3	562.4	618.4	634.3
37.5°	626.8	536.2	536.2	587.6	560.5
40°	600.7	509.1	511.9	547.4	495.1
42.5°	568.9	480.2	483.9	494.2	446.5
45°	534.3	452.1	455.0	417.6	409.2
47.5°	496.0	423.2	424.1	346.6	397.0
50°	450.3	393.3	389.6	297.0	396.1
52.5°	410.1	360.6	349.4	269.0	359.7
55°	370.9	326.0	301.7	247.5	333.5
57.5°	336.3	281.1	257.8	222.3	327.8
60°	304.5	237.2	219.5	195.2	300.7
62.5°	278.3	204.5	200.8	176.5	272.7
65°	250.3	182.1	181.2	160.6	231.6
67.5°	223.2	167.2	166.3	145.7	176.5
70°	194.3	151.3	149.4	129.8	130.8
72.5°	164.4	133.6	131.7	116.8	108.3
75°	134.5	113.0	112.1	101.8	87.8
77.5°	105.5	89.7	91.5	82.2	64.4
80°	75.7	65.4	67.2	58.8	48.6
82.5°	50.4	43.0	44.8	37.4	32.7
85°	28.0	24.3	25.2	19.6	14.9
87.5°	13.1	11.2	11.2	7.5	4.7
90°	12.8	8.1	7.6	5.2	2.9
92.5°	78.5	55.9	50.9	31.3	11.6
95°	193.3	108.9	99.9	63.9	27.8
97.5°	260.4	119.6	111.6	79.9	48.1
100°	284.8	128.5	121.3	92.5	63.7
102.5°	296.0	137.5	130.8	104.0	77.1
105°	304.3	150.8	145.1	122.4	99.6
107.5°	305.9	170.5	165.2	144.0	122.7
110°	303.6	181.6	176.8	157.6	138.4



TEST NUMBER: P934806

CATALOG NUMBER: SQ4-FA-075U-075D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	303.6	194.8	190.3	172.0	153.7
115°	306.4	214.8	210.6	193.7	176.9
117.5°	312.1	234.2	230.4	215.1	199.8
120°	316.7	245.5	241.9	227.5	213.1
122.5°	323.4	258.8	255.2	240.7	226.1
125°	332.4	275.9	272.6	259.4	246.1
127.5°	341.4	292.4	289.1	275.7	262.4
130°	347.9	303.5	299.8	285.4	271.0
132.5°	353.2	312.4	308.8	294.4	280.0
135°	359.0	322.8	319.5	306.4	293.3
137.5°	367.7	336.1	332.9	319.9	306.9
140°	373.0	345.1	342.1	330.2	318.2
142.5°	377.4	351.7	348.9	337.9	326.9
145°	383.2	361.9	359.5	349.9	340.2
147.5°	391.7	374.6	372.3	362.9	353.5
150°	396.2	381.4	379.2	370.7	362.2
152.5°	399.1	385.6	384.1	377.6	371.2
155°	405.4	395.2	394.0	389.3	384.5
157.5°	411.8	404.8	403.7	399.0	394.3
160°	414.7	409.1	408.2	404.6	401.0
162.5°	417.8	413.8	413.1	410.4	407.7
165°	422.3	420.4	419.7	417.3	414.9
167.5°	425.7	424.1	423.8	422.6	421.5
170°	428.6	428.5	428.2	427.0	425.9
172.5°	428.8	428.8	428.7	428.5	428.2
175°	430.6	431.4	431.4	431.4	431.4
177.5°	430.8	431.4	431.4	431.4	431.4
180°	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P934806
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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	12.28	13.12	13.26	14.11	15.42	15.08	15.92	16.06	16.91	18.21
	3H	12.76	13.51	13.75	14.51	15.84	16.42	17.17	17.40	18.17	19.49
	4H	12.95	13.66	13.95	14.66	16.00	16.85	17.57	17.85	18.57	19.90
	6H	13.07	13.72	14.08	14.73	16.08	17.13	17.79	18.14	18.79	20.14
	8H	13.07	13.69	14.08	14.72	16.06	17.20	17.82	18.21	18.85	20.19
	12H	13.04	13.63	14.06	14.65	16.02	17.23	17.83	18.25	18.84	20.21
4H	2H	13.31	14.02	14.31	15.02	16.35	15.49	16.20	16.50	17.21	18.54
	3H	14.33	14.93	15.35	15.96	17.30	16.98	17.58	18.00	18.61	19.96
	4H	14.61	15.15	15.63	16.17	17.54	17.50	18.05	18.53	19.07	20.44
	6H	14.73	15.20	15.76	16.24	17.61	17.86	18.33	18.89	19.37	20.74
	8H	14.74	15.17	15.77	16.21	17.59	17.96	18.40	19.00	19.44	20.82
	12H	14.70	15.10	15.75	16.15	17.54	18.01	18.41	19.07	19.46	20.85
8H	4H	15.05	15.49	16.09	16.53	17.91	17.63	18.06	18.66	19.10	20.48
	6H	15.31	15.67	16.37	16.76	18.13	18.06	18.42	19.11	19.50	20.88
	8H	15.36	15.67	16.42	16.74	18.14	18.20	18.52	19.27	19.59	20.98
	12H	15.34	15.62	16.41	16.68	18.12	18.29	18.57	19.36	19.63	21.07
12H	4H	15.06	15.45	16.11	16.51	17.89	17.59	17.99	18.64	19.04	20.43
	6H	15.37	15.69	16.44	16.76	18.15	18.05	18.37	19.12	19.44	20.83
	8H	15.44	15.72	16.51	16.78	18.22	18.21	18.49	19.28	19.55	20.99