

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: P934699

Luminaire Tested: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934699
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

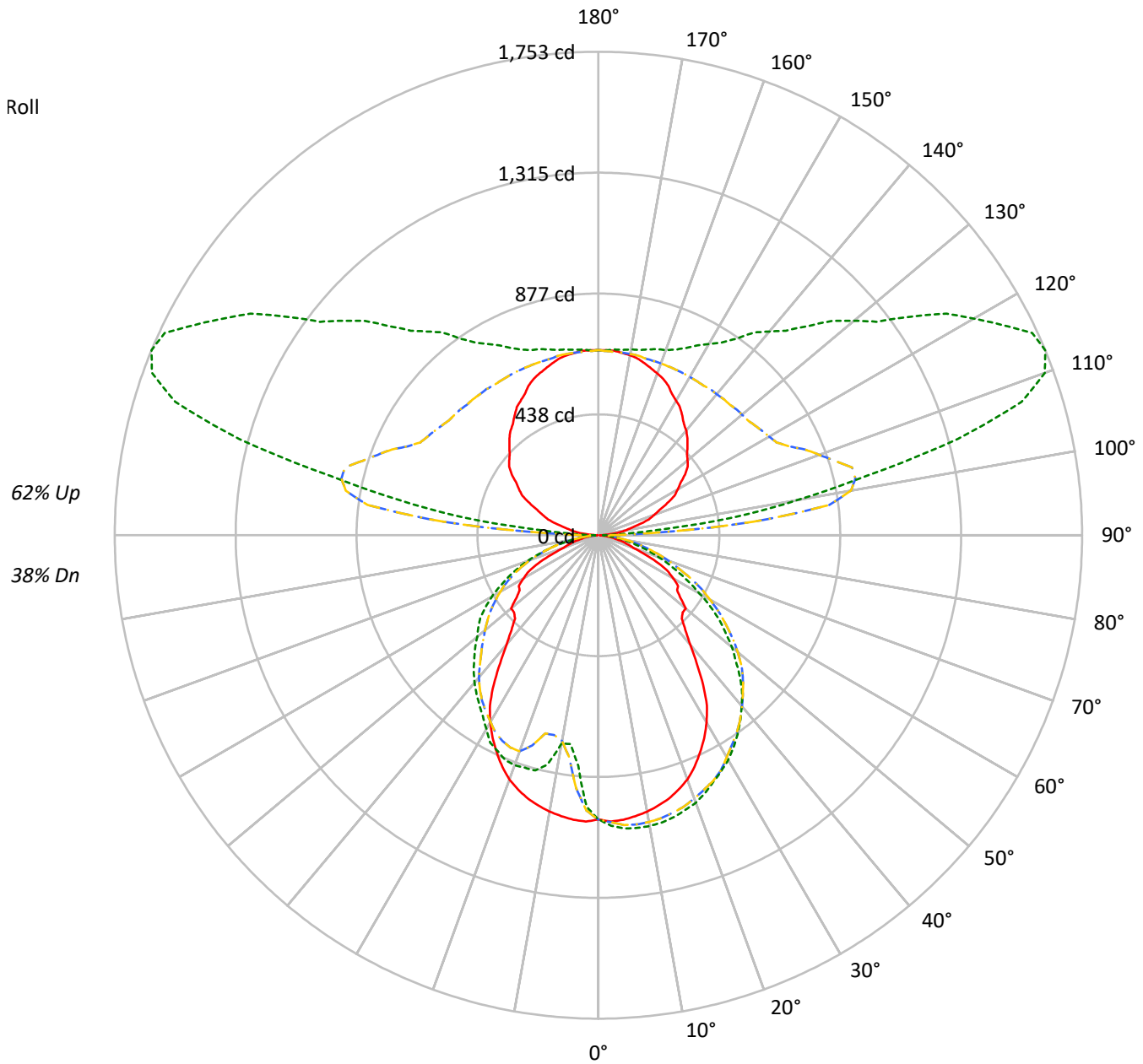
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7026.2 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 51.6
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: P934699
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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				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6374	6374	6374	6374
5°	6419	6434	6419	5059
10°	6373	6338	6373	4531
15°	6303	6201	6303	5177
20°	6168	6038	6168	5188
25°	5896	5801	5896	5079
30°	5545	5604	5545	4837
35°	4941	5354	4941	4572
40°	4115	5061	4115	4372
45°	3674	4718	3674	4141
50°	3900	4309	3900	3910
55°	3666	3868	3666	3776
60°	3775	3284	3775	3458
65°	3417	2716	3417	3035
70°	2359	2163	2359	2544
75°	2063	1599	2063	1915
80°	1650	1057	1650	1151
85°	930	560	930	475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5635 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	1.3
10°-20°	264.1	3.8
20°-30°	408.2	5.8
30°-40°	487.3	6.9
40°-50°	490.2	7.0
50°-60°	426.5	6.1
60°-70°	302.4	4.3
70°-80°	160.0	2.3
80°-90°	42.4	0.6
90°-100°	327.2	4.7
100°-110°	860.4	12.2
110°-120°	892.1	12.7
120°-130°	715.6	10.2
130°-140°	561.5	8.0
140°-150°	431.0	6.1
150°-160°	310.4	4.4
160°-170°	189.9	2.7
170°-180°	64.2	0.9
0°-30°	765.3	10.9
0°-40°	1252.6	17.8
0°-60°	2169.3	30.9
0°-90°	2674.1	38.1
90°-120°	2079.7	29.6
90°-150°	3787.7	53.9
90°-180°	4352.0	61.9
0°-180°	7026.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1030	1030	1030	1030	1030	
5°	1035	1067	1035	839	1035	98
15°	988	1058	988	883	988	278
25°	870	986	870	864	870	400
35°	662	880	662	752	662	409
45°	427	725	427	636	427	342
55°	348	535	348	522	348	320
65°	242	323	242	361	242	231
75°	92	153	92	183	92	96
85°	16	39	16	33	16	21
90°	4	17	4	17	4	4
95°	43	198	43	198	43	48
105°	155	1347	155	1347	155	164
115°	275	1735	275	1735	275	272
125°	383	1382	383	1382	383	340
135°	456	1072	456	1072	456	353
145°	530	870	530	870	530	332
155°	598	749	598	749	598	275
165°	646	698	646	698	646	182
175°	671	676	671	676	671	64
180°	671	671	671	671	671	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1039.2	1039.2	1045.0	1046.9	1046.9	1044.0	1041.1	1044.0	1052.8	1055.7	1054.8
5°	1035.2	1043.0	1053.8	1055.7	1057.7	1056.7	1054.8	1056.7	1066.4	1068.4	1069.4
7.5°	1027.4	1042.1	1055.7	1058.6	1061.5	1058.6	1057.7	1059.6	1069.4	1071.3	1071.3
10°	1017.6	1038.2	1053.8	1055.7	1058.6	1055.7	1055.7	1059.6	1069.4	1071.3	1072.3
12.5°	1004.1	1032.3	1046.9	1048.8	1052.8	1051.8	1050.8	1054.8	1064.4	1066.4	1066.4
15°	988.5	1021.6	1035.2	1037.2	1044.0	1042.1	1042.1	1045.9	1056.7	1059.6	1058.6
17.5°	967.0	1008.0	1023.6	1026.5	1031.3	1030.3	1031.3	1035.2	1045.0	1046.9	1047.9
20°	942.6	989.4	1008.0	1010.9	1015.7	1015.7	1015.7	1020.6	1030.3	1034.2	1034.2
22.5°	909.5	969.9	989.4	991.4	997.2	997.2	999.1	1006.0	1014.7	1015.7	1015.7
25°	870.5	948.5	965.0	970.9	976.8	979.7	982.6	986.5	989.4	988.5	989.4
27.5°	829.6	921.1	942.6	946.5	954.4	957.3	961.2	962.1	963.1	966.0	964.1
30°	783.7	883.1	915.3	919.2	931.9	933.8	929.9	931.9	936.7	938.8	940.7
32.5°	732.1	826.7	887.0	895.8	907.6	901.7	900.7	903.6	911.4	911.4	913.4
35°	661.9	782.8	860.8	868.5	877.3	870.5	874.4	875.4	880.2	883.1	882.2
37.5°	584.9	744.8	833.4	839.3	846.1	837.3	843.2	846.1	850.0	848.1	848.1
40°	516.7	685.3	801.3	805.1	811.1	804.2	810.1	812.0	814.0	812.0	811.1
42.5°	466.0	620.0	767.2	772.0	768.1	773.0	775.0	778.9	776.0	772.0	772.0
45°	426.9	602.4	730.1	736.0	730.1	737.9	740.8	740.8	732.1	730.1	729.2
47.5°	414.2	567.3	693.1	693.1	690.1	699.9	704.8	698.0	689.2	686.2	686.2
50°	413.3	528.3	642.4	638.5	652.1	663.9	658.9	652.1	645.4	634.6	634.6
52.5°	375.3	480.5	577.0	591.7	613.2	620.0	612.2	605.3	593.6	588.8	584.9
55°	348.0	430.8	517.6	546.9	569.3	578.0	563.5	556.6	539.1	536.1	534.2
57.5°	342.2	358.7	463.0	500.1	527.3	526.4	517.6	504.9	490.3	487.4	486.4
60°	313.9	259.3	404.6	448.5	476.7	473.7	466.0	454.3	440.6	438.7	436.7
62.5°	284.6	188.2	338.3	388.0	427.9	426.9	420.2	402.6	392.8	388.0	384.1
65°	241.8	157.9	240.8	322.7	380.1	382.1	367.5	354.8	344.1	338.3	337.3
67.5°	184.2	128.7	162.8	269.1	334.4	332.4	313.9	308.0	294.4	291.5	285.7
70°	136.4	85.8	113.1	218.3	289.5	284.6	270.1	263.2	250.5	243.7	239.8
72.5°	113.1	69.2	82.8	169.6	243.7	237.9	225.2	217.3	206.7	200.8	196.9
75°	91.7	73.1	63.4	125.8	197.9	194.0	182.3	174.5	165.7	157.9	158.9
77.5°	67.2	68.2	50.7	92.6	157.0	151.1	144.3	134.5	130.6	122.9	122.9
80°	50.7	53.6	38.0	63.4	113.1	113.1	107.3	100.4	93.6	89.7	89.7
82.5°	34.1	34.1	28.3	39.9	77.0	74.1	70.2	68.2	64.3	62.4	62.4
85°	15.6	19.5	17.5	24.3	42.0	43.9	43.9	42.0	41.0	39.0	39.9
87.5°	4.8	8.8	10.8	13.7	21.4	22.4	23.4	23.4	23.4	24.3	24.3
90°	4.5	8.0	11.7	12.6	19.8	29.4	34.2	30.4	22.9	17.2	17.2
92.5°	18.0	48.6	79.3	86.9	122.2	169.3	192.8	169.0	121.3	85.6	82.2
95°	43.2	99.3	155.3	169.4	300.8	476.1	563.7	503.0	381.6	290.6	280.3
97.5°	74.8	124.2	173.6	186.0	405.2	697.4	843.5	805.1	728.5	670.9	651.3
100°	99.1	144.0	188.9	200.1	443.2	767.4	929.6	932.4	938.0	942.2	918.8
102.5°	119.9	161.7	203.6	214.1	460.7	789.4	953.9	1002.7	1100.5	1173.7	1153.7
105°	155.0	190.5	226.0	234.8	473.6	792.0	951.2	1060.7	1279.8	1444.1	1433.3
107.5°	191.1	224.1	257.2	265.4	476.0	756.7	897.1	1049.9	1355.5	1584.7	1587.3
110°	215.4	245.3	275.0	282.5	472.3	725.5	852.0	1022.9	1364.5	1620.7	1632.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	239.2	267.6	296.1	303.2	472.5	698.2	811.1	985.9	1335.5	1597.7	1614.9
115°	275.3	301.6	327.7	334.3	476.8	666.9	761.9	930.3	1267.2	1519.8	1543.6
117.5°	310.9	334.7	358.5	364.5	485.8	647.3	728.1	880.1	1184.1	1412.1	1438.6
120°	331.6	354.1	376.5	382.1	492.9	640.7	714.6	853.5	1131.2	1339.5	1365.3
122.5°	351.9	374.5	397.2	402.8	503.3	637.3	704.3	829.3	1079.4	1267.0	1292.4
125°	382.9	403.6	424.2	429.4	517.3	634.4	693.0	799.2	1011.7	1171.0	1194.4
127.5°	408.2	429.1	449.8	455.0	531.2	632.8	683.5	774.7	957.2	1094.0	1113.8
130°	421.7	444.2	466.6	472.2	541.5	633.8	679.9	761.1	923.6	1045.4	1063.6
132.5°	435.7	458.1	480.5	486.1	549.7	634.4	676.7	749.4	894.9	1003.9	1020.2
135°	456.4	476.8	497.3	502.4	558.7	633.8	671.3	732.2	854.0	945.3	959.3
137.5°	477.6	497.8	518.0	523.1	572.2	637.7	670.5	721.9	824.8	902.0	913.6
140°	495.2	513.8	532.5	537.1	580.5	638.4	667.3	711.7	800.7	867.4	878.1
142.5°	508.7	526.0	543.2	547.5	587.4	640.6	667.3	706.3	784.4	843.0	852.3
145°	529.5	544.5	559.4	563.2	596.4	640.7	662.8	694.8	758.6	806.5	813.5
147.5°	550.1	564.7	579.4	583.0	609.6	645.1	662.8	687.9	738.2	775.9	781.7
150°	563.7	576.8	590.1	593.4	616.6	647.4	662.8	684.0	726.5	758.3	763.1
152.5°	577.6	587.7	597.7	600.2	621.0	648.8	662.8	680.9	717.2	744.4	748.0
155°	598.4	605.7	613.2	615.0	630.9	652.1	662.8	677.2	706.1	727.7	730.0
157.5°	613.7	620.9	628.1	629.9	640.9	655.5	662.8	674.0	696.4	713.3	714.9
160°	624.0	629.7	635.3	636.6	645.4	657.0	662.8	672.4	691.6	706.0	707.0
162.5°	634.4	638.7	642.8	643.9	650.2	658.6	662.8	670.9	687.1	699.3	700.2
165°	645.6	649.5	653.3	654.3	657.1	660.9	662.8	668.6	680.2	689.0	689.9
167.5°	656.0	657.9	659.6	660.1	662.5	665.7	667.3	671.0	678.7	684.4	684.8
170°	662.8	664.6	666.4	666.9	667.0	667.2	667.3	671.0	678.7	684.4	684.4
172.5°	666.4	666.8	667.2	667.3	667.3	667.3	667.3	670.3	676.3	680.8	680.4
175°	671.3	671.3	671.3	671.3	670.0	668.1	667.3	669.2	673.0	675.9	675.9
177.5°	671.3	671.3	671.3	671.3	670.3	668.9	668.2	669.8	672.8	675.0	674.6
180°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1056.7	1053.8	1056.7	1054.8	1055.7	1052.8	1044.0	1041.1	1044.0	1046.9	1046.9
5°	1069.4	1067.4	1069.4	1069.4	1068.4	1066.4	1056.7	1054.8	1056.7	1057.7	1055.7
7.5°	1073.3	1070.4	1073.3	1071.3	1071.3	1069.4	1059.6	1057.7	1058.6	1061.5	1058.6
10°	1073.3	1070.4	1073.3	1072.3	1071.3	1069.4	1059.6	1055.7	1055.7	1058.6	1055.7
12.5°	1068.4	1066.4	1068.4	1066.4	1066.4	1064.4	1054.8	1050.8	1051.8	1052.8	1048.8
15°	1060.6	1057.7	1060.6	1058.6	1059.6	1056.7	1045.9	1042.1	1042.1	1044.0	1037.2
17.5°	1048.8	1045.0	1048.8	1047.9	1046.9	1045.0	1035.2	1031.3	1030.3	1031.3	1026.5
20°	1035.2	1032.3	1035.2	1034.2	1034.2	1030.3	1020.6	1015.7	1015.7	1015.7	1010.9
22.5°	1013.8	1010.9	1013.8	1015.7	1015.7	1014.7	1006.0	999.1	997.2	997.2	991.4
25°	989.4	986.5	989.4	989.4	988.5	989.4	986.5	982.6	979.7	976.8	970.9
27.5°	966.0	964.1	966.0	964.1	966.0	963.1	962.1	961.2	957.3	954.4	946.5
30°	942.6	940.7	942.6	940.7	938.8	936.7	931.9	929.9	933.8	931.9	919.2
32.5°	913.4	911.4	913.4	913.4	911.4	911.4	903.6	900.7	901.7	907.6	895.8
35°	883.1	880.2	883.1	882.2	883.1	880.2	875.4	874.4	870.5	877.3	868.5
37.5°	848.1	845.2	848.1	848.1	848.1	850.0	846.1	843.2	837.3	846.1	839.3
40°	812.0	808.1	812.0	811.1	812.0	814.0	812.0	810.1	804.2	811.1	805.1
42.5°	771.0	770.1	771.0	772.0	772.0	776.0	778.9	775.0	773.0	768.1	772.0
45°	727.2	725.2	727.2	729.2	730.1	732.1	740.8	740.8	737.9	730.1	736.0
47.5°	680.4	675.5	680.4	686.2	686.2	689.2	698.0	704.8	699.9	690.1	693.1
50°	630.7	631.7	630.7	634.6	634.6	645.4	652.1	658.9	663.9	652.1	638.5
52.5°	582.0	581.0	582.0	584.9	588.8	593.6	605.3	612.2	620.0	613.2	591.7
55°	533.2	535.2	533.2	534.2	536.1	539.1	556.6	563.5	578.0	569.3	546.9
57.5°	484.5	481.6	484.5	486.4	487.4	490.3	504.9	517.6	526.4	527.3	500.1
60°	427.9	424.0	427.9	436.7	438.7	440.6	454.3	466.0	473.7	476.7	448.5
62.5°	378.2	371.4	378.2	384.1	388.0	392.8	402.6	420.2	426.9	427.9	388.0
65°	325.6	322.7	325.6	337.3	338.3	344.1	354.8	367.5	382.1	380.1	322.7
67.5°	277.8	277.8	277.8	285.7	291.5	294.4	308.0	313.9	332.4	334.4	269.1
70°	233.9	232.9	233.9	239.8	243.7	250.5	263.2	270.1	284.6	289.5	218.3
72.5°	192.1	191.1	192.1	196.9	200.8	206.7	217.3	225.2	237.9	243.7	169.6
75°	155.0	153.0	155.0	158.9	157.9	165.7	174.5	182.3	194.0	197.9	125.8
77.5°	118.9	118.9	118.9	122.9	122.9	130.6	134.5	144.3	151.1	157.0	92.6
80°	88.7	87.7	88.7	89.7	89.7	93.6	100.4	107.3	113.1	113.1	63.4
82.5°	62.4	60.5	62.4	62.4	62.4	64.3	68.2	70.2	74.1	77.0	39.9
85°	39.0	39.0	39.0	39.9	39.0	41.0	42.0	43.9	43.9	42.0	24.3
87.5°	25.4	24.3	25.4	24.3	24.3	23.4	23.4	23.4	22.4	21.4	13.7
90°	17.2	17.2	17.2	17.2	17.2	22.9	30.4	34.2	29.4	19.8	12.6
92.5°	68.5	54.9	68.5	82.2	85.6	121.3	169.0	192.8	169.3	122.2	86.9
95°	239.1	197.8	239.1	280.3	290.6	381.6	503.0	563.7	476.1	300.8	169.4
97.5°	572.8	494.3	572.8	651.3	670.9	728.5	805.1	843.5	697.4	405.2	186.0
100°	825.2	731.7	825.2	918.8	942.2	938.0	932.4	929.6	767.4	443.2	200.1
102.5°	1073.7	993.5	1073.7	1153.7	1173.7	1100.5	1002.7	953.9	789.4	460.7	214.1
105°	1390.2	1347.2	1390.2	1433.3	1444.1	1279.8	1060.7	951.2	792.0	473.6	234.8
107.5°	1597.7	1608.1	1597.7	1587.3	1584.7	1355.5	1049.9	897.1	756.7	476.0	265.4
110°	1676.8	1721.6	1676.8	1632.0	1620.7	1364.5	1022.9	852.0	725.5	472.3	282.5



TEST NUMBER: P934699

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1683.8	1752.7	1683.8	1614.9	1597.7	1335.5	985.9	811.1	698.2	472.5	303.2
115°	1639.2	1734.7	1639.2	1543.6	1519.8	1267.2	930.3	761.9	666.9	476.8	334.3
117.5°	1544.5	1650.4	1544.5	1438.6	1412.1	1184.1	880.1	728.1	647.3	485.8	364.5
120°	1468.2	1571.1	1468.2	1365.3	1339.5	1131.2	853.5	714.6	640.7	492.9	382.1
122.5°	1393.9	1495.5	1393.9	1292.4	1267.0	1079.4	829.3	704.3	637.3	503.3	402.8
125°	1288.0	1381.5	1288.0	1194.4	1171.0	1011.7	799.2	693.0	634.4	517.3	429.4
127.5°	1192.6	1271.5	1192.6	1113.8	1094.0	957.2	774.7	683.5	632.8	531.2	455.0
130°	1136.4	1209.3	1136.4	1063.6	1045.4	923.6	761.1	679.9	633.8	541.5	472.2
132.5°	1085.5	1150.8	1085.5	1020.2	1003.9	894.9	749.4	676.7	634.4	549.7	486.1
135°	1015.6	1071.9	1015.6	959.3	945.3	854.0	732.2	671.3	633.8	558.7	502.4
137.5°	959.6	1005.7	959.6	913.6	902.0	824.8	721.9	670.5	637.7	572.2	523.1
140°	921.2	964.3	921.2	878.1	867.4	800.7	711.7	667.3	638.4	580.5	537.1
142.5°	889.3	926.4	889.3	852.3	843.0	784.4	706.3	667.3	640.6	587.4	547.5
145°	841.6	869.6	841.6	813.5	806.5	758.6	694.8	662.8	640.7	596.4	563.2
147.5°	804.9	828.1	804.9	781.7	775.9	738.2	687.9	662.8	645.1	609.6	583.0
150°	781.9	800.7	781.9	763.1	758.3	726.5	684.0	662.8	647.4	616.6	593.4
152.5°	762.1	776.4	762.1	748.0	744.4	717.2	680.9	662.8	648.8	621.0	600.2
155°	739.4	748.8	739.4	730.0	727.7	706.1	677.2	662.8	652.1	630.9	615.0
157.5°	721.5	728.1	721.5	714.9	713.3	696.4	674.0	662.8	655.5	640.9	629.9
160°	710.8	714.6	710.8	707.0	706.0	691.6	672.4	662.8	657.0	645.4	636.6
162.5°	703.8	707.4	703.8	700.2	699.3	687.1	670.9	662.8	658.6	650.2	643.9
165°	693.7	697.5	693.7	689.9	689.0	680.2	668.6	662.8	660.9	657.1	654.3
167.5°	686.4	688.0	686.4	684.8	684.4	678.7	671.0	667.3	665.7	662.5	660.1
170°	684.4	684.4	684.4	684.4	684.4	678.7	671.0	667.3	667.2	667.0	666.9
172.5°	679.1	677.6	679.1	680.4	680.8	676.3	670.3	667.3	667.3	667.3	667.3
175°	675.9	675.9	675.9	675.9	675.9	673.0	669.2	667.3	668.1	670.0	671.3
177.5°	673.0	671.3	673.0	674.6	675.0	672.8	669.8	668.2	668.9	670.3	671.3
180°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3



TEST NUMBER: P934699

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1045.0	1039.2	1039.2	1029.4	1025.5	1022.6	1017.6	1003.1	999.1	995.3	1001.1
5°	1053.8	1043.0	1035.2	1017.6	1003.1	997.2	978.7	943.6	920.2	902.6	892.9
7.5°	1055.7	1042.1	1027.4	1000.1	965.0	949.4	892.9	828.6	811.1	795.5	785.7
10°	1053.8	1038.2	1017.6	976.8	893.9	866.6	810.1	768.1	757.4	754.5	757.4
12.5°	1046.9	1032.3	1004.1	935.8	819.8	801.3	768.1	743.8	741.8	746.7	773.0
15°	1035.2	1021.6	988.5	881.2	778.9	765.2	741.8	733.0	743.8	777.9	856.9
17.5°	1023.6	1008.0	967.0	827.6	747.7	737.9	721.3	738.9	799.3	845.2	871.4
20°	1008.0	989.4	942.6	788.6	725.2	716.5	708.6	787.6	833.4	850.0	864.6
22.5°	989.4	969.9	909.5	761.3	701.8	695.1	699.9	814.9	833.4	845.2	857.9
25°	965.0	948.5	870.5	739.8	683.3	675.5	694.1	812.0	822.7	825.7	851.0
27.5°	942.6	921.1	829.6	720.4	661.0	658.0	698.9	799.3	807.2	810.1	837.3
30°	915.3	883.1	783.7	699.9	637.5	636.5	699.9	783.7	781.8	789.5	816.9
32.5°	887.0	826.7	732.1	674.5	615.1	614.2	693.1	760.4	758.4	769.1	789.5
35°	860.8	782.8	661.9	645.4	586.8	587.8	676.5	733.0	734.0	743.8	756.4
37.5°	833.4	744.8	584.9	613.2	559.5	559.5	654.1	707.7	705.7	708.6	726.3
40°	801.3	685.3	516.7	571.2	534.2	531.3	626.7	680.4	673.6	672.6	697.0
42.5°	767.2	620.0	466.0	515.7	504.9	501.1	593.6	647.3	634.6	637.5	668.7
45°	730.1	602.4	426.9	435.8	474.7	471.8	557.6	609.2	600.5	608.2	640.4
47.5°	693.1	567.3	414.2	361.6	442.5	441.6	517.6	572.2	567.3	575.1	609.2
50°	642.4	528.3	413.3	310.0	406.5	410.4	469.9	536.1	536.1	542.9	579.1
52.5°	577.0	480.5	375.3	280.7	364.5	376.3	427.9	504.9	506.9	513.8	545.8
55°	517.6	430.8	348.0	258.3	314.8	340.2	387.0	472.8	476.7	483.5	512.7
57.5°	463.0	358.7	342.2	232.0	269.1	293.4	351.0	441.6	443.5	449.4	477.6
60°	404.6	259.3	313.9	203.7	229.1	247.6	317.7	404.6	411.3	415.2	439.6
62.5°	338.3	188.2	284.6	184.2	209.6	213.5	290.5	369.5	378.2	381.1	395.7
65°	240.8	157.9	241.8	167.6	189.1	190.1	261.2	333.3	341.2	346.0	356.8
67.5°	162.8	128.7	184.2	152.0	173.5	174.5	232.9	291.5	302.2	306.1	312.9
70°	113.1	85.8	136.4	135.5	156.0	157.9	202.7	253.5	263.2	266.1	270.1
72.5°	82.8	69.2	113.1	121.8	137.4	139.4	171.6	210.6	220.4	223.3	225.2
75°	63.4	73.1	91.7	106.3	117.0	117.9	140.4	171.6	178.4	180.3	181.3
77.5°	50.7	68.2	67.2	85.8	95.5	93.6	110.2	132.6	138.4	138.4	138.4
80°	38.0	53.6	50.7	61.4	70.2	68.2	79.0	94.6	96.5	98.5	97.5
82.5°	28.3	34.1	34.1	39.0	46.8	44.9	52.6	61.4	61.4	61.4	63.4
85°	17.5	19.5	15.6	20.4	26.4	25.4	29.3	33.1	34.1	34.1	32.2
87.5°	10.8	8.8	4.8	7.8	11.7	11.7	13.7	14.6	13.7	13.7	13.7
90°	11.7	8.0	4.5	8.0	11.7	12.6	19.8	29.4	34.2	30.4	22.9
92.5°	79.3	48.6	18.0	48.6	79.3	86.9	122.2	169.3	192.8	169.0	121.3
95°	155.3	99.3	43.2	99.3	155.3	169.4	300.8	476.1	563.7	503.0	381.6
97.5°	173.6	124.2	74.8	124.2	173.6	186.0	405.2	697.4	843.5	805.1	728.5
100°	188.9	144.0	99.1	144.0	188.9	200.1	443.2	767.4	929.6	932.4	938.0
102.5°	203.6	161.7	119.9	161.7	203.6	214.1	460.7	789.4	953.9	1002.7	1100.5
105°	226.0	190.5	155.0	190.5	226.0	234.8	473.6	792.0	951.2	1060.7	1279.8
107.5°	257.2	224.1	191.1	224.1	257.2	265.4	476.0	756.7	897.1	1049.9	1355.5
110°	275.0	245.3	215.4	245.3	275.0	282.5	472.3	725.5	852.0	1022.9	1364.5



TEST NUMBER: P934699

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	296.1	267.6	239.2	267.6	296.1	303.2	472.5	698.2	811.1	985.9	1335.5
115°	327.7	301.6	275.3	301.6	327.7	334.3	476.8	666.9	761.9	930.3	1267.2
117.5°	358.5	334.7	310.9	334.7	358.5	364.5	485.8	647.3	728.1	880.1	1184.1
120°	376.5	354.1	331.6	354.1	376.5	382.1	492.9	640.7	714.6	853.5	1131.2
122.5°	397.2	374.5	351.9	374.5	397.2	402.8	503.3	637.3	704.3	829.3	1079.4
125°	424.2	403.6	382.9	403.6	424.2	429.4	517.3	634.4	693.0	799.2	1011.7
127.5°	449.8	429.1	408.2	429.1	449.8	455.0	531.2	632.8	683.5	774.7	957.2
130°	466.6	444.2	421.7	444.2	466.6	472.2	541.5	633.8	679.9	761.1	923.6
132.5°	480.5	458.1	435.7	458.1	480.5	486.1	549.7	634.4	676.7	749.4	894.9
135°	497.3	476.8	456.4	476.8	497.3	502.4	558.7	633.8	671.3	732.2	854.0
137.5°	518.0	497.8	477.6	497.8	518.0	523.1	572.2	637.7	670.5	721.9	824.8
140°	532.5	513.8	495.2	513.8	532.5	537.1	580.5	638.4	667.3	711.7	800.7
142.5°	543.2	526.0	508.7	526.0	543.2	547.5	587.4	640.6	667.3	706.3	784.4
145°	559.4	544.5	529.5	544.5	559.4	563.2	596.4	640.7	662.8	694.8	758.6
147.5°	579.4	564.7	550.1	564.7	579.4	583.0	609.6	645.1	662.8	687.9	738.2
150°	590.1	576.8	563.7	576.8	590.1	593.4	616.6	647.4	662.8	684.0	726.5
152.5°	597.7	587.7	577.6	587.7	597.7	600.2	621.0	648.8	662.8	680.9	717.2
155°	613.2	605.7	598.4	605.7	613.2	615.0	630.9	652.1	662.8	677.2	706.1
157.5°	628.1	620.9	613.7	620.9	628.1	629.9	640.9	655.5	662.8	674.0	696.4
160°	635.3	629.7	624.0	629.7	635.3	636.6	645.4	657.0	662.8	672.4	691.6
162.5°	642.8	638.7	634.4	638.7	642.8	643.9	650.2	658.6	662.8	670.9	687.1
165°	653.3	649.5	645.6	649.5	653.3	654.3	657.1	660.9	662.8	668.6	680.2
167.5°	659.6	657.9	656.0	657.9	659.6	660.1	662.5	665.7	667.3	671.0	678.7
170°	666.4	664.6	662.8	664.6	666.4	666.9	667.0	667.2	667.3	671.0	678.7
172.5°	667.2	666.8	666.4	666.8	667.2	667.3	667.3	667.3	667.3	670.3	676.3
175°	671.3	671.3	671.3	671.3	671.3	671.3	670.0	668.1	667.3	669.2	673.0
177.5°	671.3	671.3	671.3	671.3	671.3	671.3	670.3	668.9	668.2	669.8	672.8
180°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3



TEST NUMBER: P934699

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	994.3	991.4	995.3	984.5	995.3	991.4	994.3	1001.1	995.3	999.1	1003.1
5°	872.5	867.5	851.9	839.3	851.9	867.5	872.5	892.9	902.6	920.2	943.6
7.5°	779.9	776.0	772.0	764.3	772.0	776.0	779.9	785.7	795.5	811.1	828.6
10°	759.4	760.4	766.2	765.2	766.2	760.4	759.4	757.4	754.5	757.4	768.1
12.5°	812.0	820.7	852.9	851.0	852.9	820.7	812.0	773.0	746.7	741.8	743.8
15°	872.5	875.4	882.2	883.1	882.2	875.4	872.5	856.9	777.9	743.8	733.0
17.5°	878.3	879.3	884.1	884.1	884.1	879.3	878.3	871.4	845.2	799.3	738.9
20°	873.5	875.4	885.1	887.0	885.1	875.4	873.5	864.6	850.0	833.4	787.6
22.5°	871.4	875.4	883.1	882.2	883.1	875.4	871.4	857.9	845.2	833.4	814.9
25°	861.7	861.7	862.7	863.7	862.7	861.7	861.7	851.0	825.7	822.7	812.0
27.5°	841.3	843.2	849.0	848.1	849.0	843.2	841.3	837.3	810.1	807.2	799.3
30°	822.7	820.7	815.9	812.0	815.9	820.7	822.7	816.9	789.5	781.8	783.7
32.5°	791.6	786.6	781.8	778.9	781.8	786.6	791.6	789.5	769.1	758.4	760.4
35°	754.5	755.4	754.5	751.6	754.5	755.4	754.5	756.4	743.8	734.0	733.0
37.5°	728.2	730.1	729.2	725.2	729.2	730.1	728.2	726.3	708.6	705.7	707.7
40°	700.9	701.8	700.9	698.0	700.9	701.8	700.9	697.0	672.6	673.6	680.4
42.5°	674.5	673.6	670.6	668.7	670.6	673.6	674.5	668.7	637.5	634.6	647.3
45°	644.4	645.4	639.4	636.5	639.4	645.4	644.4	640.4	608.2	600.5	609.2
47.5°	614.2	614.2	609.2	606.3	609.2	614.2	614.2	609.2	575.1	567.3	572.2
50°	582.0	581.0	574.1	573.2	574.1	581.0	582.0	579.1	542.9	536.1	536.1
52.5°	544.9	544.9	545.8	547.9	545.8	544.9	544.9	545.8	513.8	506.9	504.9
55°	512.7	513.8	520.5	522.5	520.5	513.8	512.7	512.7	483.5	476.7	472.8
57.5°	479.6	479.6	484.5	484.5	484.5	479.6	479.6	477.6	449.4	443.5	441.6
60°	441.6	443.5	447.4	446.4	447.4	443.5	441.6	439.6	415.2	411.3	404.6
62.5°	401.7	403.6	404.6	402.6	404.6	403.6	401.7	395.7	381.1	378.2	369.5
65°	359.7	361.6	362.6	360.7	362.6	361.6	359.7	356.8	346.0	341.2	333.3
67.5°	316.8	315.8	314.8	318.8	314.8	315.8	316.8	312.9	306.1	302.2	291.5
70°	273.0	273.0	272.0	273.9	272.0	273.0	273.0	270.1	266.1	263.2	253.5
72.5°	226.2	225.2	229.1	226.2	229.1	225.2	226.2	225.2	223.3	220.4	210.6
75°	180.3	182.3	180.3	183.2	180.3	182.3	180.3	181.3	180.3	178.4	171.6
77.5°	137.4	139.4	137.4	137.4	137.4	139.4	137.4	138.4	138.4	138.4	132.6
80°	97.5	96.5	96.5	95.5	96.5	96.5	97.5	97.5	98.5	96.5	94.6
82.5°	62.4	61.4	61.4	63.4	61.4	61.4	62.4	63.4	61.4	61.4	61.4
85°	34.1	35.1	33.1	33.1	33.1	35.1	34.1	32.2	34.1	34.1	33.1
87.5°	12.7	11.7	11.7	11.7	11.7	11.7	12.7	13.7	13.7	13.7	14.6
90°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	22.9	30.4	34.2	29.4
92.5°	85.6	82.2	68.5	54.9	68.5	82.2	85.6	121.3	169.0	192.8	169.3
95°	290.6	280.3	239.1	197.8	239.1	280.3	290.6	381.6	503.0	563.7	476.1
97.5°	670.9	651.3	572.8	494.3	572.8	651.3	670.9	728.5	805.1	843.5	697.4
100°	942.2	918.8	825.2	731.7	825.2	918.8	942.2	938.0	932.4	929.6	767.4
102.5°	1173.7	1153.7	1073.7	993.5	1073.7	1153.7	1173.7	1100.5	1002.7	953.9	789.4
105°	1444.1	1433.3	1390.2	1347.2	1390.2	1433.3	1444.1	1279.8	1060.7	951.2	792.0
107.5°	1584.7	1587.3	1597.7	1608.1	1597.7	1587.3	1584.7	1355.5	1049.9	897.1	756.7
110°	1620.7	1632.0	1676.8	1721.6	1676.8	1632.0	1620.7	1364.5	1022.9	852.0	725.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1597.7	1614.9	1683.8	1752.7	1683.8	1614.9	1597.7	1335.5	985.9	811.1	698.2
115°	1519.8	1543.6	1639.2	1734.7	1639.2	1543.6	1519.8	1267.2	930.3	761.9	666.9
117.5°	1412.1	1438.6	1544.5	1650.4	1544.5	1438.6	1412.1	1184.1	880.1	728.1	647.3
120°	1339.5	1365.3	1468.2	1571.1	1468.2	1365.3	1339.5	1131.2	853.5	714.6	640.7
122.5°	1267.0	1292.4	1393.9	1495.5	1393.9	1292.4	1267.0	1079.4	829.3	704.3	637.3
125°	1171.0	1194.4	1288.0	1381.5	1288.0	1194.4	1171.0	1011.7	799.2	693.0	634.4
127.5°	1094.0	1113.8	1192.6	1271.5	1192.6	1113.8	1094.0	957.2	774.7	683.5	632.8
130°	1045.4	1063.6	1136.4	1209.3	1136.4	1063.6	1045.4	923.6	761.1	679.9	633.8
132.5°	1003.9	1020.2	1085.5	1150.8	1085.5	1020.2	1003.9	894.9	749.4	676.7	634.4
135°	945.3	959.3	1015.6	1071.9	1015.6	959.3	945.3	854.0	732.2	671.3	633.8
137.5°	902.0	913.6	959.6	1005.7	959.6	913.6	902.0	824.8	721.9	670.5	637.7
140°	867.4	878.1	921.2	964.3	921.2	878.1	867.4	800.7	711.7	667.3	638.4
142.5°	843.0	852.3	889.3	926.4	889.3	852.3	843.0	784.4	706.3	667.3	640.6
145°	806.5	813.5	841.6	869.6	841.6	813.5	806.5	758.6	694.8	662.8	640.7
147.5°	775.9	781.7	804.9	828.1	804.9	781.7	775.9	738.2	687.9	662.8	645.1
150°	758.3	763.1	781.9	800.7	781.9	763.1	758.3	726.5	684.0	662.8	647.4
152.5°	744.4	748.0	762.1	776.4	762.1	748.0	744.4	717.2	680.9	662.8	648.8
155°	727.7	730.0	739.4	748.8	739.4	730.0	727.7	706.1	677.2	662.8	652.1
157.5°	713.3	714.9	721.5	728.1	721.5	714.9	713.3	696.4	674.0	662.8	655.5
160°	706.0	707.0	710.8	714.6	710.8	707.0	706.0	691.6	672.4	662.8	657.0
162.5°	699.3	700.2	703.8	707.4	703.8	700.2	699.3	687.1	670.9	662.8	658.6
165°	689.0	689.9	693.7	697.5	693.7	689.9	689.0	680.2	668.6	662.8	660.9
167.5°	684.4	684.8	686.4	688.0	686.4	684.8	684.4	678.7	671.0	667.3	665.7
170°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	678.7	671.0	667.3	667.2
172.5°	680.8	680.4	679.1	677.6	679.1	680.4	680.8	676.3	670.3	667.3	667.3
175°	675.9	675.9	675.9	675.9	675.9	675.9	675.9	673.0	669.2	667.3	668.1
177.5°	675.0	674.6	673.0	671.3	673.0	674.6	675.0	672.8	669.8	668.2	668.9
180°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1017.6	1022.6	1025.5	1029.4	1039.2
5°	978.7	997.2	1003.1	1017.6	1035.2
7.5°	892.9	949.4	965.0	1000.1	1027.4
10°	810.1	866.6	893.9	976.8	1017.6
12.5°	768.1	801.3	819.8	935.8	1004.1
15°	741.8	765.2	778.9	881.2	988.5
17.5°	721.3	737.9	747.7	827.6	967.0
20°	708.6	716.5	725.2	788.6	942.6
22.5°	699.9	695.1	701.8	761.3	909.5
25°	694.1	675.5	683.3	739.8	870.5
27.5°	698.9	658.0	661.0	720.4	829.6
30°	699.9	636.5	637.5	699.9	783.7
32.5°	693.1	614.2	615.1	674.5	732.1
35°	676.5	587.8	586.8	645.4	661.9
37.5°	654.1	559.5	559.5	613.2	584.9
40°	626.7	531.3	534.2	571.2	516.7
42.5°	593.6	501.1	504.9	515.7	466.0
45°	557.6	471.8	474.7	435.8	426.9
47.5°	517.6	441.6	442.5	361.6	414.2
50°	469.9	410.4	406.5	310.0	413.3
52.5°	427.9	376.3	364.5	280.7	375.3
55°	387.0	340.2	314.8	258.3	348.0
57.5°	351.0	293.4	269.1	232.0	342.2
60°	317.7	247.6	229.1	203.7	313.9
62.5°	290.5	213.5	209.6	184.2	284.6
65°	261.2	190.1	189.1	167.6	241.8
67.5°	232.9	174.5	173.5	152.0	184.2
70°	202.7	157.9	156.0	135.5	136.4
72.5°	171.6	139.4	137.4	121.8	113.1
75°	140.4	117.9	117.0	106.3	91.7
77.5°	110.2	93.6	95.5	85.8	67.2
80°	79.0	68.2	70.2	61.4	50.7
82.5°	52.6	44.9	46.8	39.0	34.1
85°	29.3	25.4	26.4	20.4	15.6
87.5°	13.7	11.7	11.7	7.8	4.8
90°	19.8	12.6	11.7	8.0	4.5
92.5°	122.2	86.9	79.3	48.6	18.0
95°	300.8	169.4	155.3	99.3	43.2
97.5°	405.2	186.0	173.6	124.2	74.8
100°	443.2	200.1	188.9	144.0	99.1
102.5°	460.7	214.1	203.6	161.7	119.9
105°	473.6	234.8	226.0	190.5	155.0
107.5°	476.0	265.4	257.2	224.1	191.1
110°	472.3	282.5	275.0	245.3	215.4



TEST NUMBER: P934699

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	472.5	303.2	296.1	267.6	239.2
115°	476.8	334.3	327.7	301.6	275.3
117.5°	485.8	364.5	358.5	334.7	310.9
120°	492.9	382.1	376.5	354.1	331.6
122.5°	503.3	402.8	397.2	374.5	351.9
125°	517.3	429.4	424.2	403.6	382.9
127.5°	531.2	455.0	449.8	429.1	408.2
130°	541.5	472.2	466.6	444.2	421.7
132.5°	549.7	486.1	480.5	458.1	435.7
135°	558.7	502.4	497.3	476.8	456.4
137.5°	572.2	523.1	518.0	497.8	477.6
140°	580.5	537.1	532.5	513.8	495.2
142.5°	587.4	547.5	543.2	526.0	508.7
145°	596.4	563.2	559.4	544.5	529.5
147.5°	609.6	583.0	579.4	564.7	550.1
150°	616.6	593.4	590.1	576.8	563.7
152.5°	621.0	600.2	597.7	587.7	577.6
155°	630.9	615.0	613.2	605.7	598.4
157.5°	640.9	629.9	628.1	620.9	613.7
160°	645.4	636.6	635.3	629.7	624.0
162.5°	650.2	643.9	642.8	638.7	634.4
165°	657.1	654.3	653.3	649.5	645.6
167.5°	662.5	660.1	659.6	657.9	656.0
170°	667.0	666.9	666.4	664.6	662.8
172.5°	667.3	667.3	667.2	666.8	666.4
175°	670.0	671.3	671.3	671.3	671.3
177.5°	670.3	671.3	671.3	671.3	671.3
180°	671.3	671.3	671.3	671.3	671.3



TEST NUMBER: P934699
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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	10.02	10.79	11.08	11.84	13.27	12.85	13.61	13.90	14.67	16.10
	3H	10.49	11.17	11.55	12.24	13.69	14.18	14.87	15.24	15.93	17.38
	4H	10.68	11.33	11.75	12.39	13.85	14.62	15.27	15.69	16.34	17.79
	6H	10.79	11.39	11.88	12.46	13.93	14.90	15.49	15.98	16.57	18.04
	8H	10.79	11.36	11.88	12.44	13.91	14.97	15.54	16.06	16.62	18.09
	12H	10.76	11.30	11.85	12.38	13.87	15.00	15.54	16.10	16.62	18.11
4H	2H	11.04	11.69	12.12	12.76	14.21	13.24	13.89	14.32	14.96	16.42
	3H	12.06	12.60	13.15	13.69	15.16	14.74	15.28	15.83	16.37	17.84
	4H	12.33	12.83	13.42	13.91	15.40	15.26	15.76	16.35	16.84	18.33
	6H	12.45	12.87	13.55	13.98	15.47	15.62	16.04	16.72	17.15	18.64
	8H	12.45	12.85	13.56	13.95	15.45	15.72	16.12	16.82	17.22	18.72
	12H	12.42	12.77	13.54	13.89	15.39	15.77	16.13	16.89	17.25	18.75
8H	4H	12.78	13.17	13.88	14.27	15.77	15.38	15.77	16.48	16.87	18.38
	6H	13.03	13.36	14.16	14.50	16.00	15.81	16.14	16.93	17.28	18.78
	8H	13.07	13.36	14.20	14.49	16.00	15.96	16.25	17.09	17.37	18.89
	12H	13.05	13.31	14.19	14.43	15.98	16.05	16.30	17.19	17.42	18.98
12H	4H	12.78	13.14	13.90	14.25	15.76	15.34	15.70	16.46	16.81	18.32
	6H	13.09	13.38	14.22	14.50	16.02	15.80	16.09	16.93	17.22	18.73
	8H	13.15	13.41	14.29	14.53	16.08	15.96	16.21	17.09	17.33	18.89