

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: P933899

Luminaire Tested: SQ4-FA-025U-050D-B35-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933899
REPORT IS A COMBINATION OF REPORTS P933675 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-B35-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

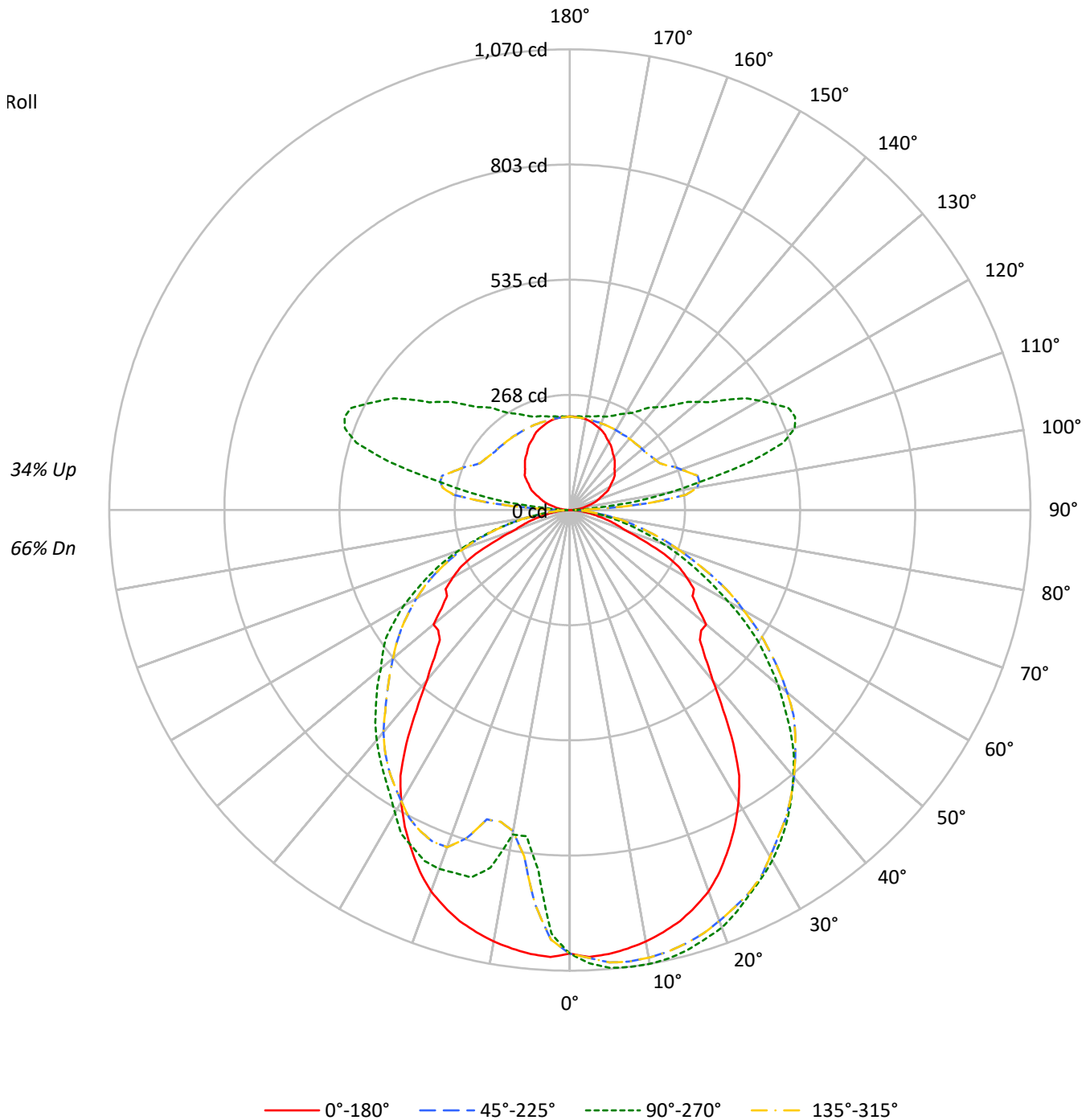
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4078.5 lumens
Efficiency: N/A
Efficacy: 123.6 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-Direct

Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

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	2.3
10°-20°	264.1	6.5
20°-30°	408.2	10.0
30°-40°	487.3	11.9
40°-50°	490.2	12.0
50°-60°	426.5	10.5
60°-70°	302.4	7.4
70°-80°	160.0	3.9
80°-90°	40.7	1.0
90°-100°	105.7	2.6
100°-110°	278.0	6.8
110°-120°	288.2	7.1
120°-130°	231.2	5.7
130°-140°	181.4	4.4
140°-150°	139.2	3.4
150°-160°	100.3	2.5
160°-170°	61.4	1.5
170°-180°	20.7	0.5
0°-30°	765.3	18.8
0°-40°	1252.6	30.7
0°-60°	2169.3	53.2
0°-90°	2672.4	65.5
90°-120°	671.9	16.5
90°-150°	1223.8	30.0
90°-180°	1406.0	34.5
0°-180°	4078.5	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°	2	6	2	6	2	2
95°	14	64	14	64	14	16
105°	50	435	50	435	50	53
115°	89	560	89	560	89	88
125°	124	446	124	446	124	110
135°	148	346	148	346	148	114
145°	171	281	171	281	171	107
155°	193	242	193	242	193	89
165°	209	225	209	225	209	59
175°	217	218	217	218	217	21
180°	217	217	217	217	217	



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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°	1.5	2.6	3.8	4.1	6.4	9.5	11.0	9.8	7.4	5.5	5.5
92.5°	5.8	15.7	25.6	28.1	39.5	54.7	62.3	54.6	39.1	27.6	26.6
95°	14.0	32.1	50.2	54.7	97.2	153.8	182.1	162.5	123.3	93.9	90.6
97.5°	24.1	40.1	56.1	60.1	130.9	225.3	272.5	260.1	235.4	216.8	210.5
100°	32.1	46.5	61.0	64.6	143.2	248.0	300.3	301.2	303.0	304.4	296.8
102.5°	38.8	52.3	65.8	69.2	148.8	255.0	308.1	323.9	355.5	379.3	372.8
105°	50.1	61.5	73.0	75.9	153.0	255.8	307.3	342.6	413.5	466.6	463.1
107.5°	61.7	72.4	83.0	85.8	153.8	244.5	289.8	339.2	438.0	512.0	512.9
110°	69.6	79.3	88.9	91.3	152.6	234.4	275.3	330.5	440.9	523.6	527.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	77.3	86.5	95.6	98.0	152.6	225.6	262.0	318.5	431.5	516.2	521.7
115°	89.0	97.5	105.9	108.0	154.1	215.4	246.1	300.6	409.4	491.0	498.7
117.5°	100.5	108.1	115.8	117.7	156.9	209.1	235.3	284.4	382.6	456.2	464.7
120°	107.2	114.4	121.6	123.5	159.3	207.1	230.9	275.8	365.5	432.9	441.2
122.5°	113.7	121.0	128.3	130.1	162.6	205.9	227.5	267.9	348.7	409.4	417.6
125°	123.7	130.4	137.1	138.8	167.2	205.0	223.9	258.2	326.9	378.4	386.0
127.5°	131.9	138.6	145.4	147.0	171.6	204.5	220.8	250.3	309.3	353.5	359.9
130°	136.2	143.5	150.7	152.5	174.9	204.7	219.7	245.9	298.4	337.7	343.6
132.5°	140.8	148.1	155.2	157.1	177.6	205.0	218.7	242.2	289.1	324.3	329.6
135°	147.5	154.1	160.7	162.3	180.5	204.8	217.0	236.6	276.0	305.4	310.0
137.5°	154.4	160.9	167.3	169.0	184.9	206.1	216.7	233.3	266.6	291.5	295.2
140°	160.0	166.0	172.0	173.5	187.6	206.3	215.6	229.9	258.7	280.2	283.7
142.5°	164.3	169.9	175.5	176.8	189.7	207.0	215.6	228.2	253.5	272.4	275.4
145°	171.0	175.9	180.7	182.0	192.7	207.0	214.1	224.4	245.1	260.6	262.8
147.5°	177.7	182.5	187.2	188.4	197.0	208.4	214.1	222.3	238.5	250.7	252.5
150°	182.1	186.3	190.7	191.8	199.2	209.2	214.1	221.0	234.7	245.0	246.5
152.5°	186.6	189.8	193.1	193.9	200.7	209.7	214.1	220.0	231.7	240.5	241.7
155°	193.3	195.7	198.2	198.7	203.9	210.8	214.1	218.8	228.1	235.1	235.9
157.5°	198.3	200.6	202.9	203.5	207.1	211.8	214.1	217.7	225.0	230.4	231.0
160°	201.6	203.5	205.2	205.7	208.5	212.3	214.1	217.2	223.5	228.1	228.4
162.5°	204.9	206.3	207.7	208.0	210.1	212.8	214.1	216.8	222.0	226.0	226.3
165°	208.6	209.8	211.0	211.3	212.3	213.6	214.1	216.0	219.8	222.6	222.9
167.5°	211.9	212.5	213.1	213.3	214.1	215.1	215.6	216.9	219.3	221.1	221.2
170°	214.1	214.7	215.3	215.4	215.5	215.6	215.6	216.9	219.3	221.1	221.1
172.5°	215.3	215.4	215.6	215.6	215.6	215.6	215.6	216.6	218.5	220.0	219.9
175°	217.0	217.0	217.0	217.0	216.5	215.9	215.6	216.2	217.4	218.4	218.4
177.5°	217.0	217.0	217.0	217.0	216.6	216.1	215.9	216.4	217.3	218.1	218.0
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



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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°	5.5	5.5	5.5	5.5	5.5	7.4	9.8	11.0	9.5	6.4	4.1
92.5°	22.1	17.7	22.1	26.6	27.6	39.1	54.6	62.3	54.7	39.5	28.1
95°	77.2	64.0	77.2	90.6	93.9	123.3	162.5	182.1	153.8	97.2	54.7
97.5°	185.1	159.7	185.1	210.5	216.8	235.4	260.1	272.5	225.3	130.9	60.1
100°	266.7	236.4	266.7	296.8	304.4	303.0	301.2	300.3	248.0	143.2	64.6
102.5°	346.9	321.0	346.9	372.8	379.3	355.5	323.9	308.1	255.0	148.8	69.2
105°	449.2	435.3	449.2	463.1	466.6	413.5	342.6	307.3	255.8	153.0	75.9
107.5°	516.2	519.6	516.2	512.9	512.0	438.0	339.2	289.8	244.5	153.8	85.8
110°	541.8	556.3	541.8	527.2	523.6	440.9	330.5	275.3	234.4	152.6	91.3



TEST NUMBER: P933899

CATALOG NUMBER: SQ4-FA-025U-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°	544.0	566.3	544.0	521.7	516.2	431.5	318.5	262.0	225.6	152.6	98.0
115°	529.6	560.5	529.6	498.7	491.0	409.4	300.6	246.1	215.4	154.1	108.0
117.5°	499.0	533.2	499.0	464.7	456.2	382.6	284.4	235.3	209.1	156.9	117.7
120°	474.4	507.7	474.4	441.2	432.9	365.5	275.8	230.9	207.1	159.3	123.5
122.5°	450.4	483.1	450.4	417.6	409.4	348.7	267.9	227.5	205.9	162.6	130.1
125°	416.1	446.3	416.1	386.0	378.4	326.9	258.2	223.9	205.0	167.2	138.8
127.5°	385.4	410.9	385.4	359.9	353.5	309.3	250.3	220.8	204.5	171.6	147.0
130°	367.2	390.7	367.2	343.6	337.7	298.4	245.9	219.7	204.7	174.9	152.5
132.5°	350.7	371.8	350.7	329.6	324.3	289.1	242.2	218.7	205.0	177.6	157.1
135°	328.1	346.3	328.1	310.0	305.4	276.0	236.6	217.0	204.8	180.5	162.3
137.5°	310.1	324.9	310.1	295.2	291.5	266.6	233.3	216.7	206.1	184.9	169.0
140°	297.6	311.5	297.6	283.7	280.2	258.7	229.9	215.6	206.3	187.6	173.5
142.5°	287.3	299.3	287.3	275.4	272.4	253.5	228.2	215.6	207.0	189.7	176.8
145°	271.9	281.0	271.9	262.8	260.6	245.1	224.4	214.1	207.0	192.7	182.0
147.5°	260.1	267.5	260.1	252.5	250.7	238.5	222.3	214.1	208.4	197.0	188.4
150°	252.6	258.7	252.6	246.5	245.0	234.7	221.0	214.1	209.2	199.2	191.8
152.5°	246.2	250.9	246.2	241.7	240.5	231.7	220.0	214.1	209.7	200.7	193.9
155°	238.9	242.0	238.9	235.9	235.1	228.1	218.8	214.1	210.8	203.9	198.7
157.5°	233.1	235.3	233.1	231.0	230.4	225.0	217.7	214.1	211.8	207.1	203.5
160°	229.7	230.9	229.7	228.4	228.1	223.5	217.2	214.1	212.3	208.5	205.7
162.5°	227.4	228.6	227.4	226.3	226.0	222.0	216.8	214.1	212.8	210.1	208.0
165°	224.1	225.4	224.1	222.9	222.6	219.8	216.0	214.1	213.6	212.3	211.3
167.5°	221.8	222.3	221.8	221.2	221.1	219.3	216.9	215.6	215.1	214.1	213.3
170°	221.1	221.1	221.1	221.1	221.1	219.3	216.9	215.6	215.6	215.5	215.4
172.5°	219.4	219.0	219.4	219.9	220.0	218.5	216.6	215.6	215.6	215.6	215.6
175°	218.4	218.4	218.4	218.4	218.4	217.4	216.2	215.6	215.9	216.5	217.0
177.5°	217.4	217.0	217.4	218.0	218.1	217.3	216.4	215.9	216.1	216.6	217.0
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



TEST NUMBER: P933899

CATALOG NUMBER: SQ4-FA-025U-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°	3.8	2.6	1.5	2.6	3.8	4.1	6.4	9.5	11.0	9.8	7.4
92.5°	25.6	15.7	5.8	15.7	25.6	28.1	39.5	54.7	62.3	54.6	39.1
95°	50.2	32.1	14.0	32.1	50.2	54.7	97.2	153.8	182.1	162.5	123.3
97.5°	56.1	40.1	24.1	40.1	56.1	60.1	130.9	225.3	272.5	260.1	235.4
100°	61.0	46.5	32.1	46.5	61.0	64.6	143.2	248.0	300.3	301.2	303.0
102.5°	65.8	52.3	38.8	52.3	65.8	69.2	148.8	255.0	308.1	323.9	355.5
105°	73.0	61.5	50.1	61.5	73.0	75.9	153.0	255.8	307.3	342.6	413.5
107.5°	83.0	72.4	61.7	72.4	83.0	85.8	153.8	244.5	289.8	339.2	438.0
110°	88.9	79.3	69.6	79.3	88.9	91.3	152.6	234.4	275.3	330.5	440.9



TEST NUMBER: P933899

CATALOG NUMBER: SQ4-FA-025U-050D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	95.6	86.5	77.3	86.5	95.6	98.0	152.6	225.6	262.0	318.5	431.5
115°	105.9	97.5	89.0	97.5	105.9	108.0	154.1	215.4	246.1	300.6	409.4
117.5°	115.8	108.1	100.5	108.1	115.8	117.7	156.9	209.1	235.3	284.4	382.6
120°	121.6	114.4	107.2	114.4	121.6	123.5	159.3	207.1	230.9	275.8	365.5
122.5°	128.3	121.0	113.7	121.0	128.3	130.1	162.6	205.9	227.5	267.9	348.7
125°	137.1	130.4	123.7	130.4	137.1	138.8	167.2	205.0	223.9	258.2	326.9
127.5°	145.4	138.6	131.9	138.6	145.4	147.0	171.6	204.5	220.8	250.3	309.3
130°	150.7	143.5	136.2	143.5	150.7	152.5	174.9	204.7	219.7	245.9	298.4
132.5°	155.2	148.1	140.8	148.1	155.2	157.1	177.6	205.0	218.7	242.2	289.1
135°	160.7	154.1	147.5	154.1	160.7	162.3	180.5	204.8	217.0	236.6	276.0
137.5°	167.3	160.9	154.4	160.9	167.3	169.0	184.9	206.1	216.7	233.3	266.6
140°	172.0	166.0	160.0	166.0	172.0	173.5	187.6	206.3	215.6	229.9	258.7
142.5°	175.5	169.9	164.3	169.9	175.5	176.8	189.7	207.0	215.6	228.2	253.5
145°	180.7	175.9	171.0	175.9	180.7	182.0	192.7	207.0	214.1	224.4	245.1
147.5°	187.2	182.5	177.7	182.5	187.2	188.4	197.0	208.4	214.1	222.3	238.5
150°	190.7	186.3	182.1	186.3	190.7	191.8	199.2	209.2	214.1	221.0	234.7
152.5°	193.1	189.8	186.6	189.8	193.1	193.9	200.7	209.7	214.1	220.0	231.7
155°	198.2	195.7	193.3	195.7	198.2	198.7	203.9	210.8	214.1	218.8	228.1
157.5°	202.9	200.6	198.3	200.6	202.9	203.5	207.1	211.8	214.1	217.7	225.0
160°	205.2	203.5	201.6	203.5	205.2	205.7	208.5	212.3	214.1	217.2	223.5
162.5°	207.7	206.3	204.9	206.3	207.7	208.0	210.1	212.8	214.1	216.8	222.0
165°	211.0	209.8	208.6	209.8	211.0	211.3	212.3	213.6	214.1	216.0	219.8
167.5°	213.1	212.5	211.9	212.5	213.1	213.3	214.1	215.1	215.6	216.9	219.3
170°	215.3	214.7	214.1	214.7	215.3	215.4	215.5	215.6	215.6	216.9	219.3
172.5°	215.6	215.4	215.3	215.4	215.6	215.6	215.6	215.6	215.6	216.6	218.5
175°	217.0	217.0	217.0	217.0	217.0	217.0	216.5	215.9	215.6	216.2	217.4
177.5°	217.0	217.0	217.0	217.0	217.0	217.0	216.6	216.1	215.9	216.4	217.3
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



TEST NUMBER: P933899
 CATALOG NUMBER: SQ4-FA-025U-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°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	9.8	11.0	9.5
92.5°	27.6	26.6	22.1	17.7	22.1	26.6	27.6	39.1	54.6	62.3	54.7
95°	93.9	90.6	77.2	64.0	77.2	90.6	93.9	123.3	162.5	182.1	153.8
97.5°	216.8	210.5	185.1	159.7	185.1	210.5	216.8	235.4	260.1	272.5	225.3
100°	304.4	296.8	266.7	236.4	266.7	296.8	304.4	303.0	301.2	300.3	248.0
102.5°	379.3	372.8	346.9	321.0	346.9	372.8	379.3	355.5	323.9	308.1	255.0
105°	466.6	463.1	449.2	435.3	449.2	463.1	466.6	413.5	342.6	307.3	255.8
107.5°	512.0	512.9	516.2	519.6	516.2	512.9	512.0	438.0	339.2	289.8	244.5
110°	523.6	527.2	541.8	556.3	541.8	527.2	523.6	440.9	330.5	275.3	234.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	516.2	521.7	544.0	566.3	544.0	521.7	516.2	431.5	318.5	262.0	225.6
115°	491.0	498.7	529.6	560.5	529.6	498.7	491.0	409.4	300.6	246.1	215.4
117.5°	456.2	464.7	499.0	533.2	499.0	464.7	456.2	382.6	284.4	235.3	209.1
120°	432.9	441.2	474.4	507.7	474.4	441.2	432.9	365.5	275.8	230.9	207.1
122.5°	409.4	417.6	450.4	483.1	450.4	417.6	409.4	348.7	267.9	227.5	205.9
125°	378.4	386.0	416.1	446.3	416.1	386.0	378.4	326.9	258.2	223.9	205.0
127.5°	353.5	359.9	385.4	410.9	385.4	359.9	353.5	309.3	250.3	220.8	204.5
130°	337.7	343.6	367.2	390.7	367.2	343.6	337.7	298.4	245.9	219.7	204.7
132.5°	324.3	329.6	350.7	371.8	350.7	329.6	324.3	289.1	242.2	218.7	205.0
135°	305.4	310.0	328.1	346.3	328.1	310.0	305.4	276.0	236.6	217.0	204.8
137.5°	291.5	295.2	310.1	324.9	310.1	295.2	291.5	266.6	233.3	216.7	206.1
140°	280.2	283.7	297.6	311.5	297.6	283.7	280.2	258.7	229.9	215.6	206.3
142.5°	272.4	275.4	287.3	299.3	287.3	275.4	272.4	253.5	228.2	215.6	207.0
145°	260.6	262.8	271.9	281.0	271.9	262.8	260.6	245.1	224.4	214.1	207.0
147.5°	250.7	252.5	260.1	267.5	260.1	252.5	250.7	238.5	222.3	214.1	208.4
150°	245.0	246.5	252.6	258.7	252.6	246.5	245.0	234.7	221.0	214.1	209.2
152.5°	240.5	241.7	246.2	250.9	246.2	241.7	240.5	231.7	220.0	214.1	209.7
155°	235.1	235.9	238.9	242.0	238.9	235.9	235.1	228.1	218.8	214.1	210.8
157.5°	230.4	231.0	233.1	235.3	233.1	231.0	230.4	225.0	217.7	214.1	211.8
160°	228.1	228.4	229.7	230.9	229.7	228.4	228.1	223.5	217.2	214.1	212.3
162.5°	226.0	226.3	227.4	228.6	227.4	226.3	226.0	222.0	216.8	214.1	212.8
165°	222.6	222.9	224.1	225.4	224.1	222.9	222.6	219.8	216.0	214.1	213.6
167.5°	221.1	221.2	221.8	222.3	221.8	221.2	221.1	219.3	216.9	215.6	215.1
170°	221.1	221.1	221.1	221.1	221.1	221.1	221.1	219.3	216.9	215.6	215.6
172.5°	220.0	219.9	219.4	219.0	219.4	219.9	220.0	218.5	216.6	215.6	215.6
175°	218.4	218.4	218.4	218.4	218.4	218.4	218.4	217.4	216.2	215.6	215.9
177.5°	218.1	218.0	217.4	217.0	217.4	218.0	218.1	217.3	216.4	215.9	216.1
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



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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°	6.4	4.1	3.8	2.6	1.5
92.5°	39.5	28.1	25.6	15.7	5.8
95°	97.2	54.7	50.2	32.1	14.0
97.5°	130.9	60.1	56.1	40.1	24.1
100°	143.2	64.6	61.0	46.5	32.1
102.5°	148.8	69.2	65.8	52.3	38.8
105°	153.0	75.9	73.0	61.5	50.1
107.5°	153.8	85.8	83.0	72.4	61.7
110°	152.6	91.3	88.9	79.3	69.6



TEST NUMBER: P933899

CATALOG NUMBER: SQ4-FA-025U-050D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	152.6	98.0	95.6	86.5	77.3
115°	154.1	108.0	105.9	97.5	89.0
117.5°	156.9	117.7	115.8	108.1	100.5
120°	159.3	123.5	121.6	114.4	107.2
122.5°	162.6	130.1	128.3	121.0	113.7
125°	167.2	138.8	137.1	130.4	123.7
127.5°	171.6	147.0	145.4	138.6	131.9
130°	174.9	152.5	150.7	143.5	136.2
132.5°	177.6	157.1	155.2	148.1	140.8
135°	180.5	162.3	160.7	154.1	147.5
137.5°	184.9	169.0	167.3	160.9	154.4
140°	187.6	173.5	172.0	166.0	160.0
142.5°	189.7	176.8	175.5	169.9	164.3
145°	192.7	182.0	180.7	175.9	171.0
147.5°	197.0	188.4	187.2	182.5	177.7
150°	199.2	191.8	190.7	186.3	182.1
152.5°	200.7	193.9	193.1	189.8	186.6
155°	203.9	198.7	198.2	195.7	193.3
157.5°	207.1	203.5	202.9	200.6	198.3
160°	208.5	205.7	205.2	203.5	201.6
162.5°	210.1	208.0	207.7	206.3	204.9
165°	212.3	211.3	211.0	209.8	208.6
167.5°	214.1	213.3	213.1	212.5	211.9
170°	215.5	215.4	215.3	214.7	214.1
172.5°	215.6	215.6	215.6	215.4	215.3
175°	216.5	217.0	217.0	217.0	217.0
177.5°	216.6	217.0	217.0	217.0	217.0
180°	217.0	217.0	217.0	217.0	217.0



TEST NUMBER: P933899
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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	12.56	13.58	13.37	14.41	15.44	15.38	16.40	16.19	17.24	18.27
	3H	13.05	13.96	13.87	14.81	15.87	16.74	17.65	17.56	18.50	19.56
	4H	13.25	14.11	14.09	14.96	16.03	17.19	18.05	18.03	18.91	19.97
	6H	13.37	14.17	14.23	15.03	16.11	17.48	18.28	18.33	19.14	20.22
	8H	13.38	14.14	14.24	15.02	16.10	17.56	18.32	18.42	19.20	20.28
	12H	13.36	14.08	14.22	14.95	16.06	17.60	18.33	18.47	19.20	20.31
4H	2H	13.61	14.47	14.46	15.33	16.40	15.81	16.68	16.66	17.53	18.60
	3H	14.65	15.37	15.51	16.26	17.34	17.33	18.05	18.19	18.94	20.02
	4H	14.93	15.59	15.80	16.47	17.58	17.86	18.52	18.73	19.40	20.51
	6H	15.07	15.64	15.95	16.54	17.66	18.24	18.80	19.12	19.71	20.82
	8H	15.08	15.61	15.97	16.51	17.64	18.35	18.88	19.24	19.78	20.91
	12H	15.05	15.53	15.96	16.45	17.58	18.41	18.89	19.32	19.81	20.94
8H	4H	15.40	15.93	16.29	16.83	17.96	18.00	18.53	18.89	19.43	20.56
	6H	15.67	16.11	16.58	17.05	18.18	18.44	18.88	19.36	19.82	20.95
	8H	15.71	16.10	16.64	17.03	18.18	18.60	18.98	19.52	19.92	21.06
	12H	15.70	16.05	16.63	16.97	18.17	18.70	19.04	19.63	19.97	21.17
12H	4H	15.41	15.89	16.32	16.81	17.94	17.97	18.45	18.88	19.37	20.50
	6H	15.73	16.12	16.66	17.05	18.20	18.44	18.83	19.37	19.76	20.91
	8H	15.80	16.15	16.73	17.07	18.27	18.61	18.95	19.54	19.88	21.08