

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: P933918

Luminaire Tested: SQ4-FA-025U-075D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933918
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

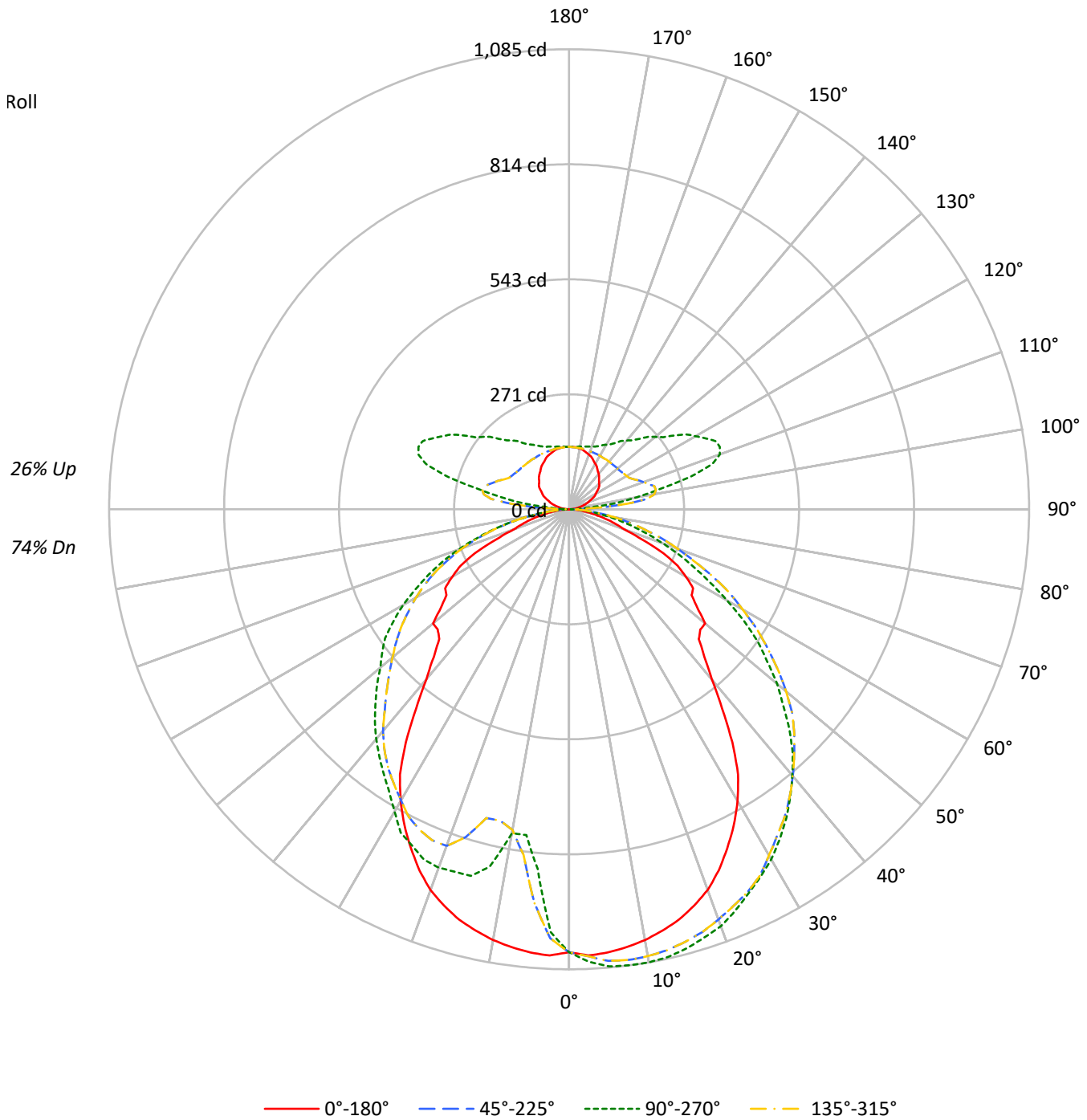
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3664.4 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 30
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9691	9691	9691	9691
5°	9753	9784	9753	7693
10°	9677	9637	9677	6890
15°	9561	9429	9561	7872
20°	9350	9181	9350	7889
25°	8930	8820	8930	7722
30°	8392	8520	8392	7355
35°	7470	8142	7470	6951
40°	6213	7696	6213	6647
45°	5541	7174	5541	6297
50°	5874	6551	5874	5944
55°	5511	5881	5511	5742
60°	5658	4995	5658	5259
65°	5106	4128	5106	4616
70°	3511	3289	3511	3867
75°	3046	2432	3046	2911
80°	2406	1607	2406	1750
85°	1308	851	1308	724

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8509 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	2.6
10°-20°	267.7	7.3
20°-30°	413.8	11.3
30°-40°	494.0	13.5
40°-50°	496.9	13.6
50°-60°	432.4	11.8
60°-70°	306.5	8.4
70°-80°	162.2	4.4
80°-90°	40.9	1.1
90°-100°	71.9	2.0
100°-110°	189.0	5.2
110°-120°	195.9	5.3
120°-130°	157.1	4.3
130°-140°	123.3	3.4
140°-150°	94.6	2.6
150°-160°	68.2	1.9
160°-170°	41.7	1.1
170°-180°	14.1	0.4
0°-30°	775.8	21.2
0°-40°	1269.7	34.7
0°-60°	2199.0	60.0
0°-90°	2708.6	73.9
90°-120°	456.8	12.5
90°-150°	831.9	22.7
90°-180°	956.0	26.1
0°-180°	3664.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1044	1044	1044	1044	1044	
5°	1049	1082	1049	851	1049	100
15°	1002	1072	1002	895	1002	282
25°	882	1000	882	876	882	405
35°	671	892	671	762	671	415
45°	433	735	433	645	433	347
55°	353	542	353	530	353	324
65°	245	327	245	366	245	234
75°	93	155	93	186	93	98
85°	16	40	16	34	16	21
90°	1	4	1	4	1	1
95°	10	44	10	44	10	11
105°	34	296	34	296	34	36
115°	60	381	60	381	60	60
125°	84	303	84	303	84	75
135°	100	235	100	235	100	78
145°	116	191	116	191	116	73
155°	131	164	131	164	131	60
165°	142	153	142	153	142	40
175°	147	148	147	148	147	14
180°	147	147	147	147	147	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1053.3	1053.3	1059.3	1061.3	1061.3	1058.3	1055.4	1058.3	1067.2	1070.2	1069.2
5°	1049.4	1057.4	1068.2	1070.2	1072.2	1071.2	1069.2	1071.2	1081.1	1083.0	1084.0
7.5°	1041.5	1056.4	1070.2	1073.2	1076.1	1073.2	1072.2	1074.2	1084.0	1086.0	1086.0
10°	1031.6	1052.3	1068.2	1070.2	1073.2	1070.2	1070.2	1074.2	1084.0	1086.0	1087.0
12.5°	1017.7	1046.4	1061.3	1063.3	1067.2	1066.2	1065.3	1069.2	1079.1	1081.1	1081.1
15°	1001.9	1035.5	1049.4	1051.3	1058.3	1056.4	1056.4	1060.3	1071.2	1074.2	1073.2
17.5°	980.2	1021.7	1037.5	1040.5	1045.4	1044.4	1045.4	1049.4	1059.3	1061.3	1062.3
20°	955.5	1002.9	1021.7	1024.7	1029.6	1029.6	1029.6	1034.5	1044.4	1048.4	1048.4
22.5°	921.9	983.2	1002.9	1004.9	1010.8	1010.8	1012.8	1019.7	1028.6	1029.6	1029.6
25°	882.4	961.4	978.2	984.1	990.1	993.0	996.0	1000.0	1002.9	1001.9	1002.9
27.5°	840.9	933.8	955.5	959.4	967.4	970.3	974.3	975.3	976.2	979.2	977.2
30°	794.5	895.2	927.8	931.8	944.6	946.6	942.7	944.6	949.6	951.5	953.5
32.5°	742.1	837.9	899.2	908.1	919.9	914.0	913.0	916.0	923.9	923.9	925.9
35°	671.0	793.5	872.5	880.4	889.3	882.4	886.3	887.3	892.3	895.2	894.2
37.5°	592.9	754.9	844.8	850.8	857.7	848.8	854.7	857.7	861.6	859.7	859.7
40°	523.7	694.7	812.2	816.2	822.1	815.2	821.1	823.1	825.1	823.1	822.1
42.5°	472.4	628.5	777.7	782.6	778.6	783.6	785.6	789.5	786.5	782.6	782.6
45°	432.8	610.7	740.1	746.0	740.1	748.0	751.0	751.0	742.1	740.1	739.1
47.5°	420.0	575.1	702.6	702.6	699.6	709.5	714.4	707.5	698.6	695.7	695.7
50°	419.0	535.6	651.2	647.2	661.1	672.9	668.0	661.1	654.2	643.3	643.3
52.5°	380.5	487.2	585.0	599.8	621.6	628.5	620.6	613.6	601.8	596.9	592.9
55°	352.8	436.8	524.7	554.4	577.1	586.0	571.2	564.2	546.5	543.5	541.5
57.5°	346.8	363.7	469.4	506.9	534.6	533.6	524.7	511.9	497.1	494.1	493.1
60°	318.1	262.8	410.1	454.6	483.2	480.3	472.4	460.5	446.7	444.7	442.7
62.5°	288.5	190.7	342.8	393.3	433.8	432.8	425.9	408.1	398.3	393.3	389.4
65°	245.0	160.1	244.0	327.0	385.4	387.4	372.6	359.7	348.8	342.8	341.8
67.5°	186.7	130.4	165.0	272.7	338.9	336.9	318.1	312.2	298.4	295.4	289.5
70°	138.3	86.9	114.6	221.3	293.4	288.5	273.7	266.8	253.9	247.0	243.0
72.5°	114.6	70.1	84.0	171.9	247.0	241.1	228.2	220.3	209.5	203.5	199.6
75°	92.9	74.1	64.2	127.5	200.6	196.6	184.8	176.9	168.0	160.1	161.0
77.5°	68.2	69.2	51.4	93.9	159.1	153.1	146.2	136.3	132.4	124.5	124.5
80°	51.4	54.3	38.5	64.2	114.6	114.6	108.7	101.8	94.8	90.9	90.9
82.5°	34.6	34.6	28.7	40.5	78.1	75.1	71.1	69.2	65.2	63.2	63.2
85°	15.8	19.8	17.8	24.7	42.5	44.5	44.5	42.5	41.5	39.5	40.5
87.5°	4.9	8.9	10.9	13.8	21.7	22.7	23.7	23.7	23.7	24.7	24.7
90°	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0	3.8	3.8
92.5°	4.0	10.7	17.4	19.1	26.9	37.2	42.4	37.1	26.7	18.8	18.0
95°	9.5	21.8	34.2	37.2	66.1	104.5	123.8	110.5	83.8	63.8	61.6
97.5°	16.4	27.3	38.1	40.9	89.0	153.1	185.2	176.9	160.0	147.3	143.0
100°	21.7	31.6	41.5	44.0	97.3	168.6	204.1	204.7	206.0	206.9	201.7
102.5°	26.3	35.5	44.8	47.0	101.2	173.4	209.5	220.2	241.7	257.8	253.3
105°	34.1	41.9	49.6	51.6	104.0	173.9	208.9	233.0	281.1	317.1	314.8
107.5°	42.0	49.2	56.5	58.3	104.5	166.2	197.0	230.6	297.7	348.1	348.7
110°	47.3	53.8	60.4	62.0	103.7	159.4	187.1	224.7	299.7	356.0	358.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	52.6	58.8	65.0	66.6	103.7	153.3	178.1	216.6	293.3	350.9	354.7
115°	60.5	66.2	71.9	73.4	104.7	146.5	167.4	204.3	278.3	333.7	339.0
117.5°	68.3	73.5	78.7	80.0	106.7	142.2	160.0	193.4	260.0	310.1	316.0
120°	72.8	77.8	82.7	83.9	108.2	140.7	156.9	187.4	248.5	294.2	299.9
122.5°	77.3	82.2	87.1	88.4	110.5	139.9	154.6	182.1	237.0	278.2	283.8
125°	84.1	88.6	93.2	94.4	113.6	139.3	152.2	175.5	222.2	257.2	262.3
127.5°	89.6	94.3	98.8	100.0	116.7	138.9	150.1	170.1	210.2	240.3	244.6
130°	92.6	97.5	102.5	103.7	119.0	139.2	149.3	167.2	202.8	229.6	233.6
132.5°	95.7	100.7	105.6	106.8	120.7	139.3	148.6	164.6	196.5	220.5	224.1
135°	100.3	104.7	109.3	110.4	122.7	139.2	147.4	160.7	187.5	207.6	210.6
137.5°	104.9	109.4	113.8	114.9	125.7	140.0	147.2	158.5	181.1	198.1	200.7
140°	108.8	112.8	117.0	118.0	127.5	140.2	146.5	156.3	175.9	190.5	192.9
142.5°	111.7	115.5	119.3	120.2	129.0	140.7	146.5	155.1	172.3	185.2	187.2
145°	116.3	119.5	122.9	123.7	131.0	140.7	145.5	152.5	166.6	177.1	178.7
147.5°	120.8	124.0	127.3	128.0	133.9	141.7	145.5	151.1	162.1	170.4	171.7
150°	123.8	126.7	129.6	130.3	135.4	142.2	145.5	150.2	159.6	166.6	167.6
152.5°	126.9	129.0	131.2	131.8	136.3	142.5	145.5	149.5	157.5	163.5	164.3
155°	131.4	133.0	134.7	135.1	138.5	143.2	145.5	148.7	155.1	159.9	160.4
157.5°	134.8	136.3	137.9	138.3	140.7	144.0	145.5	148.0	152.9	156.6	157.0
160°	137.0	138.2	139.5	139.8	141.7	144.2	145.5	147.6	151.9	155.0	155.2
162.5°	139.3	140.2	141.2	141.4	142.8	144.6	145.5	147.3	150.9	153.5	153.7
165°	141.8	142.6	143.5	143.7	144.2	145.1	145.5	146.8	149.4	151.3	151.5
167.5°	144.1	144.4	144.8	144.9	145.4	146.1	146.5	147.3	149.0	150.3	150.4
170°	145.5	145.9	146.3	146.4	146.4	146.5	146.5	147.3	149.0	150.3	150.3
172.5°	146.3	146.4	146.5	146.5	146.5	146.5	146.5	147.2	148.5	149.5	149.4
175°	147.4	147.4	147.4	147.4	147.1	146.7	146.5	146.9	147.8	148.4	148.4
177.5°	147.4	147.4	147.4	147.4	147.2	146.9	146.7	147.0	147.7	148.2	148.1
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1071.2	1068.2	1071.2	1069.2	1070.2	1067.2	1058.3	1055.4	1058.3	1061.3	1061.3
5°	1084.0	1082.1	1084.0	1084.0	1083.0	1081.1	1071.2	1069.2	1071.2	1072.2	1070.2
7.5°	1088.0	1085.0	1088.0	1086.0	1086.0	1084.0	1074.2	1072.2	1073.2	1076.1	1073.2
10°	1088.0	1085.0	1088.0	1087.0	1086.0	1084.0	1074.2	1070.2	1070.2	1073.2	1070.2
12.5°	1083.0	1081.1	1083.0	1081.1	1081.1	1079.1	1069.2	1065.3	1066.2	1067.2	1063.3
15°	1075.1	1072.2	1075.1	1073.2	1074.2	1071.2	1060.3	1056.4	1056.4	1058.3	1051.3
17.5°	1063.3	1059.3	1063.3	1062.3	1061.3	1059.3	1049.4	1045.4	1044.4	1045.4	1040.5
20°	1049.4	1046.4	1049.4	1048.4	1048.4	1044.4	1034.5	1029.6	1029.6	1029.6	1024.7
22.5°	1027.6	1024.7	1027.6	1029.6	1029.6	1028.6	1019.7	1012.8	1010.8	1010.8	1004.9
25°	1002.9	1000.0	1002.9	1002.9	1001.9	1002.9	1000.0	996.0	993.0	990.1	984.1
27.5°	979.2	977.2	979.2	977.2	979.2	976.2	975.3	974.3	970.3	967.4	959.4
30°	955.5	953.5	955.5	953.5	951.5	949.6	944.6	942.7	946.6	944.6	931.8
32.5°	925.9	923.9	925.9	925.9	923.9	923.9	916.0	913.0	914.0	919.9	908.1
35°	895.2	892.3	895.2	894.2	895.2	892.3	887.3	886.3	882.4	889.3	880.4
37.5°	859.7	856.7	859.7	859.7	859.7	861.6	857.7	854.7	848.8	857.7	850.8
40°	823.1	819.2	823.1	822.1	823.1	825.1	823.1	821.1	815.2	822.1	816.2
42.5°	781.6	780.6	781.6	782.6	782.6	786.5	789.5	785.6	783.6	778.6	782.6
45°	737.1	735.2	737.1	739.1	740.1	742.1	751.0	751.0	748.0	740.1	746.0
47.5°	689.7	684.8	689.7	695.7	695.7	698.6	707.5	714.4	709.5	699.6	702.6
50°	639.3	640.3	639.3	643.3	643.3	654.2	661.1	668.0	672.9	661.1	647.2
52.5°	589.9	588.9	589.9	592.9	596.9	601.8	613.6	620.6	628.5	621.6	599.8
55°	540.5	542.5	540.5	541.5	543.5	546.5	564.2	571.2	586.0	577.1	554.4
57.5°	491.1	488.2	491.1	493.1	494.1	497.1	511.9	524.7	533.6	534.6	506.9
60°	433.8	429.9	433.8	442.7	444.7	446.7	460.5	472.4	480.3	483.2	454.6
62.5°	383.4	376.5	383.4	389.4	393.3	398.3	408.1	425.9	432.8	433.8	393.3
65°	330.0	327.0	330.0	341.8	342.8	348.8	359.7	372.6	387.4	385.4	327.0
67.5°	281.6	281.6	281.6	289.5	295.4	298.4	312.2	318.1	336.9	338.9	272.7
70°	237.1	236.1	237.1	243.0	247.0	253.9	266.8	273.7	288.5	293.4	221.3
72.5°	194.6	193.6	194.6	199.6	203.5	209.5	220.3	228.2	241.1	247.0	171.9
75°	157.1	155.1	157.1	161.0	160.1	168.0	176.9	184.8	196.6	200.6	127.5
77.5°	120.5	120.5	120.5	124.5	124.5	132.4	136.3	146.2	153.1	159.1	93.9
80°	89.9	88.9	89.9	90.9	90.9	94.8	101.8	108.7	114.6	114.6	64.2
82.5°	63.2	61.3	63.2	63.2	63.2	65.2	69.2	71.1	75.1	78.1	40.5
85°	39.5	39.5	39.5	40.5	39.5	41.5	42.5	44.5	44.5	42.5	24.7
87.5°	25.7	24.7	25.7	24.7	24.7	23.7	23.7	23.7	22.7	21.7	13.8
90°	3.8	3.8	3.8	3.8	3.8	5.0	6.7	7.5	6.4	4.3	2.8
92.5°	15.0	12.1	15.0	18.0	18.8	26.7	37.1	42.4	37.2	26.9	19.1
95°	52.6	43.5	52.6	61.6	63.8	83.8	110.5	123.8	104.5	66.1	37.2
97.5°	125.8	108.6	125.8	143.0	147.3	160.0	176.9	185.2	153.1	89.0	40.9
100°	181.3	160.7	181.3	201.7	206.9	206.0	204.7	204.1	168.6	97.3	44.0
102.5°	235.7	218.2	235.7	253.3	257.8	241.7	220.2	209.5	173.4	101.2	47.0
105°	305.4	295.9	305.4	314.8	317.1	281.1	233.0	208.9	173.9	104.0	51.6
107.5°	350.9	353.2	350.9	348.7	348.1	297.7	230.6	197.0	166.2	104.5	58.3
110°	368.2	378.1	368.2	358.4	356.0	299.7	224.7	187.1	159.4	103.7	62.0



TEST NUMBER: P933918

CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	369.8	384.9	369.8	354.7	350.9	293.3	216.6	178.1	153.3	103.7	66.6
115°	360.0	381.0	360.0	339.0	333.7	278.3	204.3	167.4	146.5	104.7	73.4
117.5°	339.2	362.5	339.2	316.0	310.1	260.0	193.4	160.0	142.2	106.7	80.0
120°	322.5	345.0	322.5	299.9	294.2	248.5	187.4	156.9	140.7	108.2	83.9
122.5°	306.1	328.4	306.1	283.8	278.2	237.0	182.1	154.6	139.9	110.5	88.4
125°	282.9	303.4	282.9	262.3	257.2	222.2	175.5	152.2	139.3	113.6	94.4
127.5°	261.9	279.2	261.9	244.6	240.3	210.2	170.1	150.1	138.9	116.7	100.0
130°	249.6	265.6	249.6	233.6	229.6	202.8	167.2	149.3	139.2	119.0	103.7
132.5°	238.4	252.7	238.4	224.1	220.5	196.5	164.6	148.6	139.3	120.7	106.8
135°	223.1	235.4	223.1	210.6	207.6	187.5	160.7	147.4	139.2	122.7	110.4
137.5°	210.7	220.9	210.7	200.7	198.1	181.1	158.5	147.2	140.0	125.7	114.9
140°	202.2	211.7	202.2	192.9	190.5	175.9	156.3	146.5	140.2	127.5	118.0
142.5°	195.3	203.4	195.3	187.2	185.2	172.3	155.1	146.5	140.7	129.0	120.2
145°	184.9	191.0	184.9	178.7	177.1	166.6	152.5	145.5	140.7	131.0	123.7
147.5°	176.8	181.9	176.8	171.7	170.4	162.1	151.1	145.5	141.7	133.9	128.0
150°	171.7	175.9	171.7	167.6	166.6	159.6	150.2	145.5	142.2	135.4	130.3
152.5°	167.4	170.5	167.4	164.3	163.5	157.5	149.5	145.5	142.5	136.3	131.8
155°	162.4	164.5	162.4	160.4	159.9	155.1	148.7	145.5	143.2	138.5	135.1
157.5°	158.5	160.0	158.5	157.0	156.6	152.9	148.0	145.5	144.0	140.7	138.3
160°	156.1	156.9	156.1	155.2	155.0	151.9	147.6	145.5	144.2	141.7	139.8
162.5°	154.5	155.3	154.5	153.7	153.5	150.9	147.3	145.5	144.6	142.8	141.4
165°	152.3	153.1	152.3	151.5	151.3	149.4	146.8	145.5	145.1	144.2	143.7
167.5°	150.7	151.1	150.7	150.4	150.3	149.0	147.3	146.5	146.1	145.4	144.9
170°	150.3	150.3	150.3	150.3	150.3	149.0	147.3	146.5	146.5	146.4	146.4
172.5°	149.1	148.8	149.1	149.4	149.5	148.5	147.2	146.5	146.5	146.5	146.5
175°	148.4	148.4	148.4	148.4	148.4	147.8	146.9	146.5	146.7	147.1	147.4
177.5°	147.8	147.4	147.8	148.1	148.2	147.7	147.0	146.7	146.9	147.2	147.4
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



TEST NUMBER: P933918

CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1059.3	1053.3	1053.3	1043.4	1039.5	1036.5	1031.6	1016.8	1012.8	1008.8	1014.8
5°	1068.2	1057.4	1049.4	1031.6	1016.8	1010.8	992.1	956.5	932.8	915.0	905.1
7.5°	1070.2	1056.4	1041.5	1013.8	978.2	962.4	905.1	839.9	822.1	806.3	796.4
10°	1068.2	1052.3	1031.6	990.1	906.1	878.4	821.1	778.6	767.8	764.8	767.8
12.5°	1061.3	1046.4	1017.7	948.6	831.0	812.2	778.6	753.9	752.0	756.9	783.6
15°	1049.4	1035.5	1001.9	893.3	789.5	775.7	752.0	743.1	753.9	788.5	868.6
17.5°	1037.5	1021.7	980.2	838.9	757.9	748.0	731.2	749.0	810.3	856.7	883.4
20°	1021.7	1002.9	955.5	799.4	735.2	726.3	718.4	798.4	844.8	861.6	876.5
22.5°	1002.9	983.2	921.9	771.7	711.5	704.5	709.5	826.1	844.8	856.7	869.5
25°	978.2	961.4	882.4	750.0	692.7	684.8	703.6	823.1	834.0	836.9	862.6
27.5°	955.5	933.8	840.9	730.2	670.0	667.0	708.5	810.3	818.2	821.1	848.8
30°	927.8	895.2	794.5	709.5	646.3	645.3	709.5	794.5	792.5	800.4	828.0
32.5°	899.2	837.9	742.1	683.8	623.5	622.5	702.6	770.7	768.8	779.6	800.4
35°	872.5	793.5	671.0	654.2	594.9	595.9	685.8	743.1	744.1	753.9	766.8
37.5°	844.8	754.9	592.9	621.6	567.2	567.2	663.0	717.4	715.4	718.4	736.2
40°	812.2	694.7	523.7	579.1	541.5	538.6	635.4	689.7	682.8	681.8	706.5
42.5°	777.7	628.5	472.4	522.8	511.9	507.9	601.8	656.1	643.3	646.3	677.9
45°	740.1	610.7	432.8	441.7	481.3	478.3	565.2	617.6	608.7	616.6	649.2
47.5°	702.6	575.1	420.0	366.6	448.7	447.7	524.7	580.1	575.1	583.0	617.6
50°	651.2	535.6	419.0	314.2	412.1	416.0	476.3	543.5	543.5	550.4	587.0
52.5°	585.0	487.2	380.5	284.5	369.6	381.5	433.8	511.9	513.9	520.8	553.4
55°	524.7	436.8	352.8	261.8	319.1	344.8	392.3	479.3	483.2	490.1	519.8
57.5°	469.4	363.7	346.8	235.1	272.7	297.4	355.8	447.7	449.6	455.6	484.2
60°	410.1	262.8	318.1	206.5	232.2	251.0	322.1	410.1	417.0	421.0	445.7
62.5°	342.8	190.7	288.5	186.7	212.4	216.4	294.4	374.6	383.4	386.4	401.2
65°	244.0	160.1	245.0	169.9	191.7	192.7	264.8	337.9	345.8	350.7	361.7
67.5°	165.0	130.4	186.7	154.1	175.9	176.9	236.1	295.4	306.3	310.2	317.1
70°	114.6	86.9	138.3	137.3	158.1	160.1	205.5	256.9	266.8	269.7	273.7
72.5°	84.0	70.1	114.6	123.5	139.3	141.3	173.9	213.4	223.3	226.3	228.2
75°	64.2	74.1	92.9	107.7	118.6	119.5	142.3	173.9	180.8	182.8	183.8
77.5°	51.4	69.2	68.2	86.9	96.8	94.8	111.6	134.4	140.3	140.3	140.3
80°	38.5	54.3	51.4	62.2	71.1	69.2	80.0	95.8	97.8	99.8	98.8
82.5°	28.7	34.6	34.6	39.5	47.4	45.4	53.4	62.2	62.2	62.2	64.2
85°	17.8	19.8	15.8	20.7	26.7	25.7	29.6	33.6	34.6	34.6	32.6
87.5°	10.9	8.9	4.9	7.9	11.9	11.9	13.8	14.8	13.8	13.8	13.8
90°	2.6	1.8	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0
92.5°	17.4	10.7	4.0	10.7	17.4	19.1	26.9	37.2	42.4	37.1	26.7
95°	34.2	21.8	9.5	21.8	34.2	37.2	66.1	104.5	123.8	110.5	83.8
97.5°	38.1	27.3	16.4	27.3	38.1	40.9	89.0	153.1	185.2	176.9	160.0
100°	41.5	31.6	21.7	31.6	41.5	44.0	97.3	168.6	204.1	204.7	206.0
102.5°	44.8	35.5	26.3	35.5	44.8	47.0	101.2	173.4	209.5	220.2	241.7
105°	49.6	41.9	34.1	41.9	49.6	51.6	104.0	173.9	208.9	233.0	281.1
107.5°	56.5	49.2	42.0	49.2	56.5	58.3	104.5	166.2	197.0	230.6	297.7
110°	60.4	53.8	47.3	53.8	60.4	62.0	103.7	159.4	187.1	224.7	299.7



TEST NUMBER: P933918

CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	65.0	58.8	52.6	58.8	65.0	66.6	103.7	153.3	178.1	216.6	293.3
115°	71.9	66.2	60.5	66.2	71.9	73.4	104.7	146.5	167.4	204.3	278.3
117.5°	78.7	73.5	68.3	73.5	78.7	80.0	106.7	142.2	160.0	193.4	260.0
120°	82.7	77.8	72.8	77.8	82.7	83.9	108.2	140.7	156.9	187.4	248.5
122.5°	87.1	82.2	77.3	82.2	87.1	88.4	110.5	139.9	154.6	182.1	237.0
125°	93.2	88.6	84.1	88.6	93.2	94.4	113.6	139.3	152.2	175.5	222.2
127.5°	98.8	94.3	89.6	94.3	98.8	100.0	116.7	138.9	150.1	170.1	210.2
130°	102.5	97.5	92.6	97.5	102.5	103.7	119.0	139.2	149.3	167.2	202.8
132.5°	105.6	100.7	95.7	100.7	105.6	106.8	120.7	139.3	148.6	164.6	196.5
135°	109.3	104.7	100.3	104.7	109.3	110.4	122.7	139.2	147.4	160.7	187.5
137.5°	113.8	109.4	104.9	109.4	113.8	114.9	125.7	140.0	147.2	158.5	181.1
140°	117.0	112.8	108.8	112.8	117.0	118.0	127.5	140.2	146.5	156.3	175.9
142.5°	119.3	115.5	111.7	115.5	119.3	120.2	129.0	140.7	146.5	155.1	172.3
145°	122.9	119.5	116.3	119.5	122.9	123.7	131.0	140.7	145.5	152.5	166.6
147.5°	127.3	124.0	120.8	124.0	127.3	128.0	133.9	141.7	145.5	151.1	162.1
150°	129.6	126.7	123.8	126.7	129.6	130.3	135.4	142.2	145.5	150.2	159.6
152.5°	131.2	129.0	126.9	129.0	131.2	131.8	136.3	142.5	145.5	149.5	157.5
155°	134.7	133.0	131.4	133.0	134.7	135.1	138.5	143.2	145.5	148.7	155.1
157.5°	137.9	136.3	134.8	136.3	137.9	138.3	140.7	144.0	145.5	148.0	152.9
160°	139.5	138.2	137.0	138.2	139.5	139.8	141.7	144.2	145.5	147.6	151.9
162.5°	141.2	140.2	139.3	140.2	141.2	141.4	142.8	144.6	145.5	147.3	150.9
165°	143.5	142.6	141.8	142.6	143.5	143.7	144.2	145.1	145.5	146.8	149.4
167.5°	144.8	144.4	144.1	144.4	144.8	144.9	145.4	146.1	146.5	147.3	149.0
170°	146.3	145.9	145.5	145.9	146.3	146.4	146.4	146.5	146.5	147.3	149.0
172.5°	146.5	146.4	146.3	146.4	146.5	146.5	146.5	146.5	146.5	147.2	148.5
175°	147.4	147.4	147.4	147.4	147.4	147.4	147.1	146.7	146.5	146.9	147.8
177.5°	147.4	147.4	147.4	147.4	147.4	147.4	147.2	146.9	146.7	147.0	147.7
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



TEST NUMBER: P933918
 CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1007.9	1004.9	1008.8	998.0	1008.8	1004.9	1007.9	1014.8	1008.8	1012.8	1016.8
5°	884.4	879.4	863.6	850.8	863.6	879.4	884.4	905.1	915.0	932.8	956.5
7.5°	790.5	786.5	782.6	774.7	782.6	786.5	790.5	796.4	806.3	822.1	839.9
10°	769.8	770.7	776.7	775.7	776.7	770.7	769.8	767.8	764.8	767.8	778.6
12.5°	823.1	832.0	864.6	862.6	864.6	832.0	823.1	783.6	756.9	752.0	753.9
15°	884.4	887.3	894.2	895.2	894.2	887.3	884.4	868.6	788.5	753.9	743.1
17.5°	890.3	891.3	896.2	896.2	896.2	891.3	890.3	883.4	856.7	810.3	749.0
20°	885.3	887.3	897.2	899.2	897.2	887.3	885.3	876.5	861.6	844.8	798.4
22.5°	883.4	887.3	895.2	894.2	895.2	887.3	883.4	869.5	856.7	844.8	826.1
25°	873.5	873.5	874.5	875.5	874.5	873.5	873.5	862.6	836.9	834.0	823.1
27.5°	852.7	854.7	860.6	859.7	860.6	854.7	852.7	848.8	821.1	818.2	810.3
30°	834.0	832.0	827.1	823.1	827.1	832.0	834.0	828.0	800.4	792.5	794.5
32.5°	802.4	797.4	792.5	789.5	792.5	797.4	802.4	800.4	779.6	768.8	770.7
35°	764.8	765.8	764.8	761.8	764.8	765.8	764.8	766.8	753.9	744.1	743.1
37.5°	738.1	740.1	739.1	735.2	739.1	740.1	738.1	736.2	718.4	715.4	717.4
40°	710.5	711.5	710.5	707.5	710.5	711.5	710.5	706.5	681.8	682.8	689.7
42.5°	683.8	682.8	679.8	677.9	679.8	682.8	683.8	677.9	646.3	643.3	656.1
45°	653.2	654.2	648.2	645.3	648.2	654.2	653.2	649.2	616.6	608.7	617.6
47.5°	622.5	622.5	617.6	614.6	617.6	622.5	622.5	617.6	583.0	575.1	580.1
50°	589.9	588.9	582.0	581.0	582.0	588.9	589.9	587.0	550.4	543.5	543.5
52.5°	552.4	552.4	553.4	555.4	553.4	552.4	552.4	553.4	520.8	513.9	511.9
55°	519.8	520.8	527.7	529.7	527.7	520.8	519.8	519.8	490.1	483.2	479.3
57.5°	486.2	486.2	491.1	491.1	491.1	486.2	486.2	484.2	455.6	449.6	447.7
60°	447.7	449.6	453.6	452.6	453.6	449.6	447.7	445.7	421.0	417.0	410.1
62.5°	407.2	409.1	410.1	408.1	410.1	409.1	407.2	401.2	386.4	383.4	374.6
65°	364.7	366.6	367.6	365.7	367.6	366.6	364.7	361.7	350.7	345.8	337.9
67.5°	321.1	320.1	319.1	323.1	319.1	320.1	321.1	317.1	310.2	306.3	295.4
70°	276.6	276.6	275.7	277.6	275.7	276.6	276.6	273.7	269.7	266.8	256.9
72.5°	229.2	228.2	232.2	229.2	232.2	228.2	229.2	228.2	226.3	223.3	213.4
75°	182.8	184.8	182.8	185.7	182.8	184.8	182.8	183.8	182.8	180.8	173.9
77.5°	139.3	141.3	139.3	139.3	139.3	141.3	139.3	140.3	140.3	140.3	134.4
80°	98.8	97.8	97.8	96.8	97.8	97.8	98.8	98.8	99.8	97.8	95.8
82.5°	63.2	62.2	62.2	64.2	62.2	62.2	63.2	64.2	62.2	62.2	62.2
85°	34.6	35.6	33.6	33.6	33.6	35.6	34.6	32.6	34.6	34.6	33.6
87.5°	12.8	11.9	11.9	11.9	11.9	11.9	12.8	13.8	13.8	13.8	14.8
90°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.0	6.7	7.5	6.4
92.5°	18.8	18.0	15.0	12.1	15.0	18.0	18.8	26.7	37.1	42.4	37.2
95°	63.8	61.6	52.6	43.5	52.6	61.6	63.8	83.8	110.5	123.8	104.5
97.5°	147.3	143.0	125.8	108.6	125.8	143.0	147.3	160.0	176.9	185.2	153.1
100°	206.9	201.7	181.3	160.7	181.3	201.7	206.9	206.0	204.7	204.1	168.6
102.5°	257.8	253.3	235.7	218.2	235.7	253.3	257.8	241.7	220.2	209.5	173.4
105°	317.1	314.8	305.4	295.9	305.4	314.8	317.1	281.1	233.0	208.9	173.9
107.5°	348.1	348.7	350.9	353.2	350.9	348.7	348.1	297.7	230.6	197.0	166.2
110°	356.0	358.4	368.2	378.1	368.2	358.4	356.0	299.7	224.7	187.1	159.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	350.9	354.7	369.8	384.9	369.8	354.7	350.9	293.3	216.6	178.1	153.3
115°	333.7	339.0	360.0	381.0	360.0	339.0	333.7	278.3	204.3	167.4	146.5
117.5°	310.1	316.0	339.2	362.5	339.2	316.0	310.1	260.0	193.4	160.0	142.2
120°	294.2	299.9	322.5	345.0	322.5	299.9	294.2	248.5	187.4	156.9	140.7
122.5°	278.2	283.8	306.1	328.4	306.1	283.8	278.2	237.0	182.1	154.6	139.9
125°	257.2	262.3	282.9	303.4	282.9	262.3	257.2	222.2	175.5	152.2	139.3
127.5°	240.3	244.6	261.9	279.2	261.9	244.6	240.3	210.2	170.1	150.1	138.9
130°	229.6	233.6	249.6	265.6	249.6	233.6	229.6	202.8	167.2	149.3	139.2
132.5°	220.5	224.1	238.4	252.7	238.4	224.1	220.5	196.5	164.6	148.6	139.3
135°	207.6	210.6	223.1	235.4	223.1	210.6	207.6	187.5	160.7	147.4	139.2
137.5°	198.1	200.7	210.7	220.9	210.7	200.7	198.1	181.1	158.5	147.2	140.0
140°	190.5	192.9	202.2	211.7	202.2	192.9	190.5	175.9	156.3	146.5	140.2
142.5°	185.2	187.2	195.3	203.4	195.3	187.2	185.2	172.3	155.1	146.5	140.7
145°	177.1	178.7	184.9	191.0	184.9	178.7	177.1	166.6	152.5	145.5	140.7
147.5°	170.4	171.7	176.8	181.9	176.8	171.7	170.4	162.1	151.1	145.5	141.7
150°	166.6	167.6	171.7	175.9	171.7	167.6	166.6	159.6	150.2	145.5	142.2
152.5°	163.5	164.3	167.4	170.5	167.4	164.3	163.5	157.5	149.5	145.5	142.5
155°	159.9	160.4	162.4	164.5	162.4	160.4	159.9	155.1	148.7	145.5	143.2
157.5°	156.6	157.0	158.5	160.0	158.5	157.0	156.6	152.9	148.0	145.5	144.0
160°	155.0	155.2	156.1	156.9	156.1	155.2	155.0	151.9	147.6	145.5	144.2
162.5°	153.5	153.7	154.5	155.3	154.5	153.7	153.5	150.9	147.3	145.5	144.6
165°	151.3	151.5	152.3	153.1	152.3	151.5	151.3	149.4	146.8	145.5	145.1
167.5°	150.3	150.4	150.7	151.1	150.7	150.4	150.3	149.0	147.3	146.5	146.1
170°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	149.0	147.3	146.5	146.5
172.5°	149.5	149.4	149.1	148.8	149.1	149.4	149.5	148.5	147.2	146.5	146.5
175°	148.4	148.4	148.4	148.4	148.4	148.4	148.4	147.8	146.9	146.5	146.7
177.5°	148.2	148.1	147.8	147.4	147.8	148.1	148.2	147.7	147.0	146.7	146.9
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1031.6	1036.5	1039.5	1043.4	1053.3
5°	992.1	1010.8	1016.8	1031.6	1049.4
7.5°	905.1	962.4	978.2	1013.8	1041.5
10°	821.1	878.4	906.1	990.1	1031.6
12.5°	778.6	812.2	831.0	948.6	1017.7
15°	752.0	775.7	789.5	893.3	1001.9
17.5°	731.2	748.0	757.9	838.9	980.2
20°	718.4	726.3	735.2	799.4	955.5
22.5°	709.5	704.5	711.5	771.7	921.9
25°	703.6	684.8	692.7	750.0	882.4
27.5°	708.5	667.0	670.0	730.2	840.9
30°	709.5	645.3	646.3	709.5	794.5
32.5°	702.6	622.5	623.5	683.8	742.1
35°	685.8	595.9	594.9	654.2	671.0
37.5°	663.0	567.2	567.2	621.6	592.9
40°	635.4	538.6	541.5	579.1	523.7
42.5°	601.8	507.9	511.9	522.8	472.4
45°	565.2	478.3	481.3	441.7	432.8
47.5°	524.7	447.7	448.7	366.6	420.0
50°	476.3	416.0	412.1	314.2	419.0
52.5°	433.8	381.5	369.6	284.5	380.5
55°	392.3	344.8	319.1	261.8	352.8
57.5°	355.8	297.4	272.7	235.1	346.8
60°	322.1	251.0	232.2	206.5	318.1
62.5°	294.4	216.4	212.4	186.7	288.5
65°	264.8	192.7	191.7	169.9	245.0
67.5°	236.1	176.9	175.9	154.1	186.7
70°	205.5	160.1	158.1	137.3	138.3
72.5°	173.9	141.3	139.3	123.5	114.6
75°	142.3	119.5	118.6	107.7	92.9
77.5°	111.6	94.8	96.8	86.9	68.2
80°	80.0	69.2	71.1	62.2	51.4
82.5°	53.4	45.4	47.4	39.5	34.6
85°	29.6	25.7	26.7	20.7	15.8
87.5°	13.8	11.9	11.9	7.9	4.9
90°	4.3	2.8	2.6	1.8	1.0
92.5°	26.9	19.1	17.4	10.7	4.0
95°	66.1	37.2	34.2	21.8	9.5
97.5°	89.0	40.9	38.1	27.3	16.4
100°	97.3	44.0	41.5	31.6	21.7
102.5°	101.2	47.0	44.8	35.5	26.3
105°	104.0	51.6	49.6	41.9	34.1
107.5°	104.5	58.3	56.5	49.2	42.0
110°	103.7	62.0	60.4	53.8	47.3



TEST NUMBER: P933918

CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	103.7	66.6	65.0	58.8	52.6
115°	104.7	73.4	71.9	66.2	60.5
117.5°	106.7	80.0	78.7	73.5	68.3
120°	108.2	83.9	82.7	77.8	72.8
122.5°	110.5	88.4	87.1	82.2	77.3
125°	113.6	94.4	93.2	88.6	84.1
127.5°	116.7	100.0	98.8	94.3	89.6
130°	119.0	103.7	102.5	97.5	92.6
132.5°	120.7	106.8	105.6	100.7	95.7
135°	122.7	110.4	109.3	104.7	100.3
137.5°	125.7	114.9	113.8	109.4	104.9
140°	127.5	118.0	117.0	112.8	108.8
142.5°	129.0	120.2	119.3	115.5	111.7
145°	131.0	123.7	122.9	119.5	116.3
147.5°	133.9	128.0	127.3	124.0	120.8
150°	135.4	130.3	129.6	126.7	123.8
152.5°	136.3	131.8	131.2	129.0	126.9
155°	138.5	135.1	134.7	133.0	131.4
157.5°	140.7	138.3	137.9	136.3	134.8
160°	141.7	139.8	139.5	138.2	137.0
162.5°	142.8	141.4	141.2	140.2	139.3
165°	144.2	143.7	143.5	142.6	141.8
167.5°	145.4	144.9	144.8	144.4	144.1
170°	146.4	146.4	146.3	145.9	145.5
172.5°	146.5	146.5	146.5	146.4	146.3
175°	147.1	147.4	147.4	147.4	147.4
177.5°	147.2	147.4	147.4	147.4	147.4
180°	147.4	147.4	147.4	147.4	147.4



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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	14.65	15.78	15.37	16.52	17.40	17.45	18.57	18.17	19.32	20.20
	3H	15.15	16.16	15.88	16.91	17.82	18.80	19.81	19.54	20.57	21.48
	4H	15.35	16.30	16.10	17.07	17.99	19.25	20.21	20.01	20.97	21.89
	6H	15.48	16.36	16.25	17.13	18.07	19.54	20.42	20.31	21.19	22.13
	8H	15.49	16.33	16.27	17.12	18.06	19.62	20.46	20.40	21.25	22.19
	12H	15.47	16.27	16.25	17.06	18.03	19.66	20.46	20.45	21.25	22.22
4H	2H	15.71	16.66	16.46	17.42	18.35	17.89	18.85	18.65	19.61	20.53
	3H	16.76	17.55	17.53	18.35	19.29	19.41	20.21	20.18	21.00	21.95
	4H	17.04	17.77	17.83	18.56	19.54	19.94	20.67	20.73	21.46	22.44
	6H	17.19	17.81	17.99	18.63	19.61	20.32	20.94	21.12	21.76	22.74
	8H	17.20	17.78	18.00	18.60	19.59	20.42	21.01	21.23	21.82	22.82
	12H	17.18	17.70	18.00	18.54	19.54	20.49	21.01	21.31	21.85	22.85
8H	4H	17.51	18.10	18.32	18.92	19.91	20.09	20.67	20.90	21.49	22.48
	6H	17.79	18.27	18.62	19.13	20.12	20.53	21.01	21.36	21.87	22.86
	8H	17.83	18.26	18.68	19.12	20.13	20.68	21.11	21.52	21.96	22.97
	12H	17.83	18.21	18.68	19.05	20.12	20.78	21.16	21.63	22.01	23.07
12H	4H	17.53	18.06	18.36	18.90	19.89	20.07	20.59	20.89	21.43	22.43
	6H	17.85	18.28	18.69	19.14	20.14	20.53	20.96	21.37	21.82	22.82
	8H	17.93	18.31	18.78	19.15	20.22	20.70	21.08	21.55	21.92	22.99