

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: P934611

Luminaire Tested: SQ4-FA-075U-050D-830-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

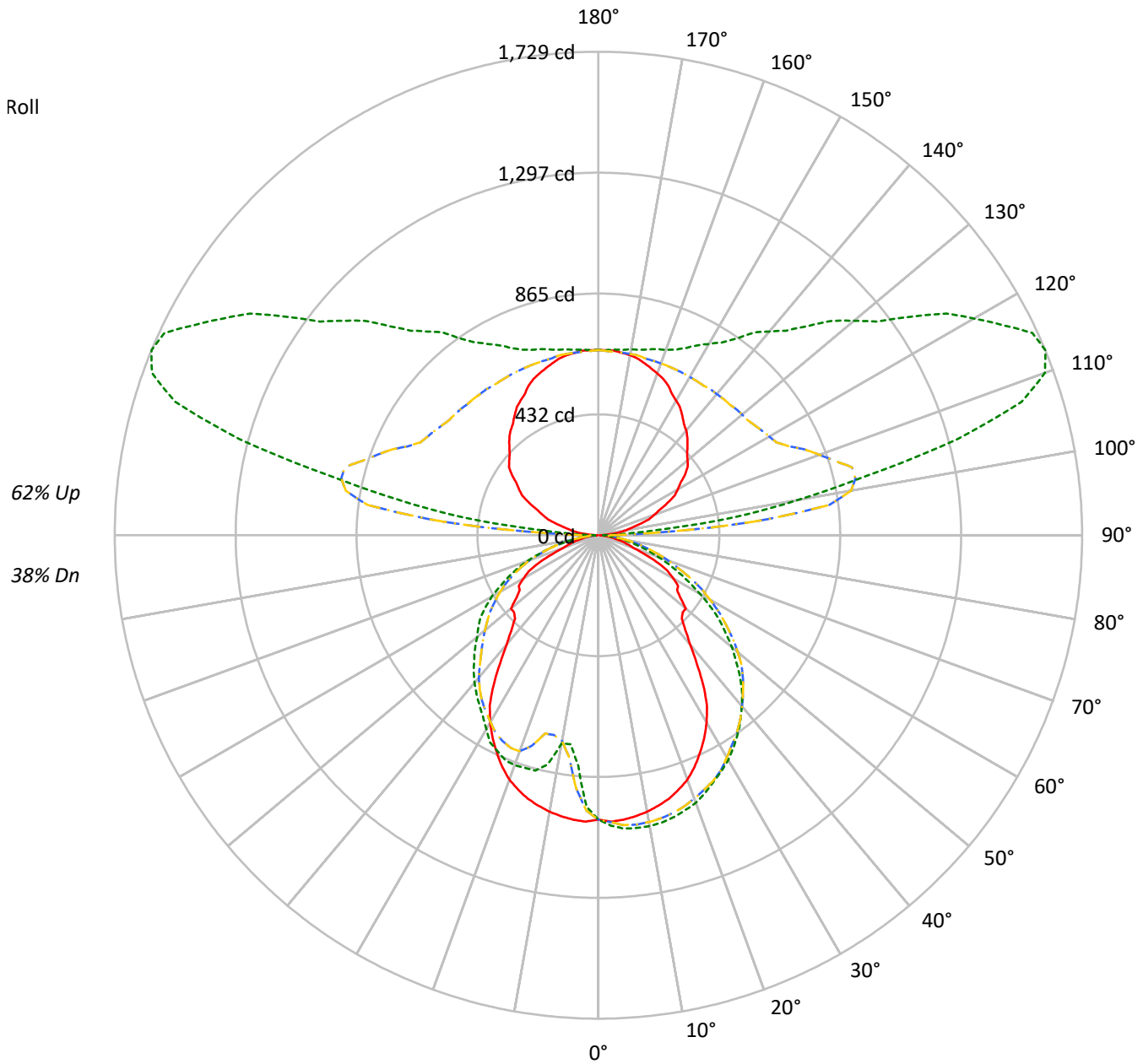
Test Method: LM-79-2019  
Report Number: P934611  
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6931.9 lumens  
Efficiency: N/A  
Efficacy: 134.3 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

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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°	6288	6288	6288	6288
5°	6333	6347	6333	4991
10°	6288	6253	6288	4471
15°	6218	6118	6218	5108
20°	6085	5957	6085	5119
25°	5817	5723	5817	5010
30°	5470	5529	5470	4772
35°	4875	5283	4875	4511
40°	4059	4994	4059	4313
45°	3624	4655	3624	4085
50°	3847	4251	3847	3857
55°	3616	3816	3616	3725
60°	3723	3240	3723	3411
65°	3371	2678	3371	2994
70°	2328	2134	2328	2510
75°	2034	1578	2034	1890
80°	1627	1043	1627	1137
85°	918	552	918	470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5559 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.8	1.3
10°-20°	260.5	3.8
20°-30°	402.7	5.8
30°-40°	480.8	6.9
40°-50°	483.6	7.0
50°-60°	420.8	6.1
60°-70°	298.3	4.3
70°-80°	157.8	2.3
80°-90°	41.8	0.6
90°-100°	322.8	4.7
100°-110°	848.8	12.2
110°-120°	880.1	12.7
120°-130°	706.0	10.2
130°-140°	553.9	8.0
140°-150°	425.2	6.1
150°-160°	306.2	4.4
160°-170°	187.3	2.7
170°-180°	63.3	0.9
0°-30°	755.0	10.9
0°-40°	1235.8	17.8
0°-60°	2140.2	30.9
0°-90°	2638.2	38.1
90°-120°	2051.8	29.6
90°-150°	3736.9	53.9
90°-180°	4294.0	61.9
0°-180°	6931.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1016	1016	1016	1016	1016	
5°	1021	1053	1021	828	1021	97
15°	975	1044	975	871	975	274
25°	859	973	859	852	859	394
35°	653	868	653	742	653	404
45°	421	716	421	628	421	337
55°	343	528	343	516	343	315
65°	238	318	238	356	238	228
75°	90	151	90	181	90	95
85°	15	38	15	33	15	21
90°	4	17	4	17	4	4
95°	43	195	43	195	43	47
105°	153	1329	153	1329	153	162
115°	272	1711	272	1711	272	268
125°	378	1363	378	1363	378	335
135°	450	1058	450	1058	450	348
145°	522	858	522	858	522	327
155°	590	739	590	739	590	271
165°	637	688	637	688	637	180
175°	662	667	662	667	662	63
180°	662	662	662	662	662	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1025.2	1025.2	1031.0	1032.9	1032.9	1030.0	1027.1	1030.0	1038.7	1041.6	1040.6
5°	1021.3	1029.0	1039.6	1041.6	1043.5	1042.5	1040.6	1042.5	1052.1	1054.1	1055.0
7.5°	1013.6	1028.1	1041.6	1044.4	1047.3	1044.4	1043.5	1045.4	1055.0	1057.0	1057.0
10°	1004.0	1024.3	1039.6	1041.6	1044.4	1041.6	1041.6	1045.4	1055.0	1057.0	1057.9
12.5°	990.6	1018.4	1032.9	1034.8	1038.7	1037.7	1036.7	1040.6	1050.2	1052.1	1052.1
15°	975.2	1007.9	1021.3	1023.3	1030.0	1028.1	1028.1	1031.9	1042.5	1045.4	1044.4
17.5°	954.0	994.4	1009.8	1012.7	1017.5	1016.5	1017.5	1021.3	1031.0	1032.9	1033.8
20°	930.0	976.2	994.4	997.3	1002.1	1002.1	1002.1	1007.0	1016.5	1020.3	1020.3
22.5°	897.3	956.9	976.2	978.1	983.8	983.8	985.7	992.5	1001.1	1002.1	1002.1
25°	858.8	935.7	952.1	957.9	963.6	966.5	969.4	973.3	976.2	975.2	976.2
27.5°	818.4	908.8	930.0	933.8	941.6	944.4	948.3	949.2	950.2	953.0	951.1
30°	773.2	871.3	903.0	906.9	919.4	921.3	917.5	919.4	924.2	926.2	928.1
32.5°	722.3	815.6	875.1	883.8	895.4	889.6	888.6	891.5	899.2	899.2	901.1
35°	653.0	772.3	849.2	856.9	865.6	858.8	862.7	863.7	868.4	871.3	870.3
37.5°	577.0	734.8	822.3	828.0	834.8	826.1	831.9	834.8	838.6	836.7	836.7
40°	509.7	676.1	790.5	794.3	800.2	793.4	799.2	801.1	803.0	801.1	800.2
42.5°	459.7	611.6	756.9	761.6	757.8	762.6	764.6	768.4	765.6	761.6	761.6
45°	421.2	594.3	720.3	726.1	720.3	728.0	730.9	730.9	722.3	720.3	719.4
47.5°	408.7	559.7	683.8	683.8	680.9	690.5	695.3	688.6	679.9	677.0	677.0
50°	407.7	521.2	633.7	629.9	643.4	655.0	650.1	643.4	636.7	626.1	626.1
52.5°	370.3	474.1	569.3	583.7	605.0	611.6	604.0	597.2	585.6	580.9	577.0
55°	343.3	425.0	510.7	539.6	561.6	570.3	555.9	549.1	531.8	529.0	527.0
57.5°	337.6	353.9	456.8	493.4	520.3	519.3	510.7	498.2	483.7	480.9	479.9
60°	309.6	255.8	399.1	442.4	470.3	467.4	459.7	448.2	434.7	432.8	430.9
62.5°	280.8	185.7	333.7	382.8	422.2	421.2	414.5	397.2	387.6	382.8	379.0
65°	238.5	155.8	237.6	318.3	375.0	377.0	362.6	350.1	339.5	333.7	332.8
67.5°	181.7	127.0	160.6	265.5	329.9	327.9	309.6	303.9	290.4	287.6	281.8
70°	134.6	84.6	111.6	215.4	285.7	280.8	266.4	259.6	247.1	240.4	236.6
72.5°	111.6	68.3	81.7	167.3	240.4	234.7	222.2	214.4	203.9	198.1	194.3
75°	90.4	72.1	62.5	124.1	195.2	191.4	179.8	172.2	163.5	155.8	156.8
77.5°	66.3	67.3	50.0	91.4	154.9	149.0	142.3	132.7	128.9	121.2	121.2
80°	50.0	52.9	37.5	62.5	111.6	111.6	105.8	99.0	92.3	88.5	88.5
82.5°	33.7	33.7	27.9	39.4	76.0	73.1	69.2	67.3	63.5	61.6	61.6
85°	15.4	19.2	17.3	24.0	41.4	43.3	43.3	41.4	40.4	38.4	39.4
87.5°	4.8	8.7	10.6	13.5	21.1	22.1	23.0	23.0	23.0	24.0	24.0
90°	4.4	7.9	11.6	12.4	19.5	29.0	33.7	30.0	22.6	16.9	16.9
92.5°	17.8	48.0	78.2	85.8	120.6	167.0	190.2	166.7	119.7	84.4	81.1
95°	42.6	98.0	153.2	167.1	296.7	469.7	556.1	496.3	376.5	286.7	276.6
97.5°	73.8	122.6	171.3	183.6	399.8	688.0	832.2	794.3	718.7	661.9	642.5
100°	97.8	142.1	186.3	197.4	437.3	757.2	917.1	919.9	925.4	929.5	906.5
102.5°	118.3	159.6	200.9	211.2	454.5	778.9	941.1	989.3	1085.7	1158.0	1138.2
105°	153.0	187.9	222.9	231.6	467.2	781.3	938.4	1046.4	1262.6	1424.7	1414.1
107.5°	188.5	221.1	253.7	261.8	469.6	746.5	885.1	1035.8	1337.3	1563.4	1566.0
110°	212.5	242.0	271.3	278.7	466.0	715.8	840.6	1009.2	1346.2	1599.0	1610.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	236.0	264.0	292.2	299.1	466.1	688.8	800.2	972.6	1317.6	1576.3	1593.3
115°	271.6	297.5	323.3	329.8	470.4	657.9	751.7	917.9	1250.2	1499.4	1522.9
117.5°	306.7	330.2	353.7	359.6	479.2	638.6	718.3	868.3	1168.2	1393.2	1419.3
120°	327.1	349.3	371.4	377.0	486.3	632.1	705.0	842.0	1116.0	1321.6	1347.0
122.5°	347.2	369.5	391.9	397.4	496.5	628.8	694.8	818.1	1064.9	1250.0	1275.0
125°	377.8	398.2	418.5	423.6	510.3	625.9	683.7	788.5	998.2	1155.3	1178.4
127.5°	402.8	423.3	443.8	448.9	524.1	624.3	674.4	764.3	944.3	1079.3	1098.8
130°	416.1	438.2	460.3	465.9	534.2	625.3	670.8	750.9	911.2	1031.3	1049.3
132.5°	429.8	452.0	474.1	479.6	542.3	625.9	667.7	739.4	882.9	990.4	1006.5
135°	450.3	470.4	490.6	495.7	551.2	625.3	662.3	722.4	842.5	932.6	946.4
137.5°	471.2	491.1	511.1	516.0	564.5	629.1	661.5	712.2	813.7	889.9	901.3
140°	488.5	506.9	525.3	529.9	572.7	629.8	658.3	702.2	789.9	855.7	866.3
142.5°	501.9	518.9	535.9	540.1	579.5	632.0	658.3	696.8	773.9	831.7	840.9
145°	522.4	537.2	551.9	555.6	588.4	632.1	653.9	685.5	748.5	795.7	802.6
147.5°	542.7	557.2	571.6	575.2	601.4	636.4	653.9	678.7	728.3	765.5	771.2
150°	556.1	569.1	582.2	585.5	608.3	638.7	653.9	674.8	716.7	748.2	752.8
152.5°	569.9	579.8	589.7	592.1	612.7	640.1	653.9	671.8	707.5	734.4	737.9
155°	590.3	597.6	605.0	606.8	622.5	643.4	653.9	668.1	696.6	718.0	720.3
157.5°	605.4	612.6	619.7	621.5	632.3	646.7	653.9	665.0	687.1	703.7	705.3
160°	615.7	621.2	626.8	628.1	636.7	648.2	653.9	663.4	682.3	696.5	697.5
162.5°	625.9	630.1	634.2	635.3	641.5	649.8	653.9	661.9	677.9	689.9	690.8
165°	637.0	640.8	644.5	645.5	648.3	652.0	653.9	659.6	671.1	679.7	680.7
167.5°	647.2	649.0	650.7	651.2	653.6	656.8	658.3	662.0	669.6	675.2	675.6
170°	653.9	655.7	657.4	657.9	658.0	658.2	658.3	662.0	669.6	675.2	675.2
172.5°	657.4	657.8	658.2	658.3	658.3	658.3	658.3	661.3	667.2	671.7	671.3
175°	662.3	662.3	662.3	662.3	661.0	659.2	658.3	660.2	663.9	666.8	666.8
177.5°	662.3	662.3	662.3	662.3	661.3	659.9	659.3	660.8	663.8	665.9	665.6
180°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1042.5	1039.6	1042.5	1040.6	1041.6	1038.7	1030.0	1027.1	1030.0	1032.9	1032.9
5°	1055.0	1053.0	1055.0	1055.0	1054.1	1052.1	1042.5	1040.6	1042.5	1043.5	1041.6
7.5°	1058.9	1056.0	1058.9	1057.0	1057.0	1055.0	1045.4	1043.5	1044.4	1047.3	1044.4
10°	1058.9	1056.0	1058.9	1057.9	1057.0	1055.0	1045.4	1041.6	1041.6	1044.4	1041.6
12.5°	1054.1	1052.1	1054.1	1052.1	1052.1	1050.2	1040.6	1036.7	1037.7	1038.7	1034.8
15°	1046.3	1043.5	1046.3	1044.4	1045.4	1042.5	1031.9	1028.1	1028.1	1030.0	1023.3
17.5°	1034.8	1031.0	1034.8	1033.8	1032.9	1031.0	1021.3	1017.5	1016.5	1017.5	1012.7
20°	1021.3	1018.4	1021.3	1020.3	1020.3	1016.5	1007.0	1002.1	1002.1	1002.1	997.3
22.5°	1000.2	997.3	1000.2	1002.1	1002.1	1001.1	992.5	985.7	983.8	983.8	978.1
25°	976.2	973.3	976.2	976.2	975.2	976.2	973.3	969.4	966.5	963.6	957.9
27.5°	953.0	951.1	953.0	951.1	953.0	950.2	949.2	948.3	944.4	941.6	933.8
30°	930.0	928.1	930.0	928.1	926.2	924.2	919.4	917.5	921.3	919.4	906.9
32.5°	901.1	899.2	901.1	901.1	899.2	899.2	891.5	888.6	889.6	895.4	883.8
35°	871.3	868.4	871.3	870.3	871.3	868.4	863.7	862.7	858.8	865.6	856.9
37.5°	836.7	833.8	836.7	836.7	836.7	838.6	834.8	831.9	826.1	834.8	828.0
40°	801.1	797.3	801.1	800.2	801.1	803.0	801.1	799.2	793.4	800.2	794.3
42.5°	760.7	759.7	760.7	761.6	761.6	765.6	768.4	764.6	762.6	757.8	761.6
45°	717.5	715.5	717.5	719.4	720.3	722.3	730.9	730.9	728.0	720.3	726.1
47.5°	671.3	666.4	671.3	677.0	677.0	679.9	688.6	695.3	690.5	680.9	683.8
50°	622.3	623.2	622.3	626.1	626.1	636.7	643.4	650.1	655.0	643.4	629.9
52.5°	574.2	573.2	574.2	577.0	580.9	585.6	597.2	604.0	611.6	605.0	583.7
55°	526.1	528.0	526.1	527.0	529.0	531.8	549.1	555.9	570.3	561.6	539.6
57.5°	478.0	475.1	478.0	479.9	480.9	483.7	498.2	510.7	519.3	520.3	493.4
60°	422.2	418.3	422.2	430.9	432.8	434.7	448.2	459.7	467.4	470.3	442.4
62.5°	373.1	366.4	373.1	379.0	382.8	387.6	397.2	414.5	421.2	422.2	382.8
65°	321.2	318.3	321.2	332.8	333.7	339.5	350.1	362.6	377.0	375.0	318.3
67.5°	274.1	274.1	274.1	281.8	287.6	290.4	303.9	309.6	327.9	329.9	265.5
70°	230.8	229.8	230.8	236.6	240.4	247.1	259.6	266.4	280.8	285.7	215.4
72.5°	189.5	188.5	189.5	194.3	198.1	203.9	214.4	222.2	234.7	240.4	167.3
75°	153.0	151.0	153.0	156.8	155.8	163.5	172.2	179.8	191.4	195.2	124.1
77.5°	117.3	117.3	117.3	121.2	121.2	128.9	132.7	142.3	149.0	154.9	91.4
80°	87.5	86.5	87.5	88.5	88.5	92.3	99.0	105.8	111.6	111.6	62.5
82.5°	61.6	59.7	61.6	61.6	61.6	63.5	67.3	69.2	73.1	76.0	39.4
85°	38.4	38.4	38.4	39.4	38.4	40.4	41.4	43.3	43.3	41.4	24.0
87.5°	25.0	24.0	25.0	24.0	24.0	23.0	23.0	23.0	22.1	21.1	13.5
90°	16.9	16.9	16.9	16.9	16.9	22.6	30.0	33.7	29.0	19.5	12.4
92.5°	67.6	54.2	67.6	81.1	84.4	119.7	166.7	190.2	167.0	120.6	85.8
95°	235.8	195.1	235.8	276.6	286.7	376.5	496.3	556.1	469.7	296.7	167.1
97.5°	565.1	487.7	565.1	642.5	661.9	718.7	794.3	832.2	688.0	399.8	183.6
100°	814.1	721.9	814.1	906.5	929.5	925.4	919.9	917.1	757.2	437.3	197.4
102.5°	1059.2	980.2	1059.2	1138.2	1158.0	1085.7	989.3	941.1	778.9	454.5	211.2
105°	1371.6	1329.1	1371.6	1414.1	1424.7	1262.6	1046.4	938.4	781.3	467.2	231.6
107.5°	1576.3	1586.5	1576.3	1566.0	1563.4	1337.3	1035.8	885.1	746.5	469.6	261.8
110°	1654.3	1698.5	1654.3	1610.1	1599.0	1346.2	1009.2	840.6	715.8	466.0	278.7





TEST NUMBER: P934611

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1661.2	1729.2	1661.2	1593.3	1576.3	1317.6	972.6	800.2	688.8	466.1	299.1
115°	1617.2	1711.4	1617.2	1522.9	1499.4	1250.2	917.9	751.7	657.9	470.4	329.8
117.5°	1523.8	1628.3	1523.8	1419.3	1393.2	1168.2	868.3	718.3	638.6	479.2	359.6
120°	1448.5	1550.1	1448.5	1347.0	1321.6	1116.0	842.0	705.0	632.1	486.3	377.0
122.5°	1375.2	1475.4	1375.2	1275.0	1250.0	1064.9	818.1	694.8	628.8	496.5	397.4
125°	1270.7	1363.0	1270.7	1178.4	1155.3	998.2	788.5	683.7	625.9	510.3	423.6
127.5°	1176.6	1254.5	1176.6	1098.8	1079.3	944.3	764.3	674.4	624.3	524.1	448.9
130°	1121.2	1193.1	1121.2	1049.3	1031.3	911.2	750.9	670.8	625.3	534.2	465.9
132.5°	1070.9	1135.3	1070.9	1006.5	990.4	882.9	739.4	667.7	625.9	542.3	479.6
135°	1002.0	1057.5	1002.0	946.4	932.6	842.5	722.4	662.3	625.3	551.2	495.7
137.5°	946.7	992.2	946.7	901.3	889.9	813.7	712.2	661.5	629.1	564.5	516.0
140°	908.9	951.3	908.9	866.3	855.7	789.9	702.2	658.3	629.8	572.7	529.9
142.5°	877.4	913.9	877.4	840.9	831.7	773.9	696.8	658.3	632.0	579.5	540.1
145°	830.3	857.9	830.3	802.6	795.7	748.5	685.5	653.9	632.1	588.4	555.6
147.5°	794.1	817.0	794.1	771.2	765.5	728.3	678.7	653.9	636.4	601.4	575.2
150°	771.4	789.9	771.4	752.8	748.2	716.7	674.8	653.9	638.7	608.3	585.5
152.5°	751.9	765.9	751.9	737.9	734.4	707.5	671.8	653.9	640.1	612.7	592.1
155°	729.5	738.8	729.5	720.3	718.0	696.6	668.1	653.9	643.4	622.5	606.8
157.5°	711.8	718.3	711.8	705.3	703.7	687.1	665.0	653.9	646.7	632.3	621.5
160°	701.2	705.0	701.2	697.5	696.5	682.3	663.4	653.9	648.2	636.7	628.1
162.5°	694.3	697.9	694.3	690.8	689.9	677.9	661.9	653.9	649.8	641.5	635.3
165°	684.4	688.1	684.4	680.7	679.7	671.1	659.6	653.9	652.0	648.3	645.5
167.5°	677.2	678.8	677.2	675.6	675.2	669.6	662.0	658.3	656.8	653.6	651.2
170°	675.2	675.2	675.2	675.2	675.2	669.6	662.0	658.3	658.2	658.0	657.9
172.5°	670.0	668.5	670.0	671.3	671.7	667.2	661.3	658.3	658.3	658.3	658.3
175°	666.8	666.8	666.8	666.8	666.8	663.9	660.2	658.3	659.2	661.0	662.3
177.5°	663.9	662.3	663.9	665.6	665.9	663.8	660.8	659.3	659.9	661.3	662.3
180°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3



TEST NUMBER: P934611

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1031.0	1025.2	1025.2	1015.6	1011.7	1008.9	1004.0	989.7	985.7	981.9	987.6
5°	1039.6	1029.0	1021.3	1004.0	989.7	983.8	965.6	931.0	907.8	890.5	881.0
7.5°	1041.6	1028.1	1013.6	986.7	952.1	936.7	881.0	817.5	800.2	784.8	775.1
10°	1039.6	1024.3	1004.0	963.6	881.9	855.0	799.2	757.8	747.2	744.3	747.2
12.5°	1032.9	1018.4	990.6	923.2	808.8	790.5	757.8	733.8	731.8	736.7	762.6
15°	1021.3	1007.9	975.2	869.4	768.4	755.0	731.8	723.2	733.8	767.5	845.4
17.5°	1009.8	994.4	954.0	816.5	737.6	728.0	711.6	728.9	788.6	833.8	859.7
20°	994.4	976.2	930.0	778.0	715.5	706.9	699.1	777.0	822.3	838.6	853.0
22.5°	976.2	956.9	897.3	751.1	692.4	685.7	690.5	804.0	822.3	833.8	846.3
25°	952.1	935.7	858.8	729.9	674.2	666.4	684.8	801.1	811.6	814.6	839.6
27.5°	930.0	908.8	818.4	710.7	652.1	649.1	689.6	788.6	796.3	799.2	826.1
30°	903.0	871.3	773.2	690.5	629.0	628.0	690.5	773.2	771.3	778.9	805.9
32.5°	875.1	815.6	722.3	665.5	606.9	605.9	683.8	750.2	748.3	758.8	778.9
35°	849.2	772.3	653.0	636.7	579.0	579.9	667.4	723.2	724.2	733.8	746.3
37.5°	822.3	734.8	577.0	605.0	552.0	552.0	645.3	698.2	696.3	699.1	716.5
40°	790.5	676.1	509.7	563.6	527.0	524.2	618.3	671.3	664.5	663.6	687.7
42.5°	756.9	611.6	459.7	508.8	498.2	494.3	585.6	638.6	626.1	629.0	659.7
45°	720.3	594.3	421.2	429.9	468.3	465.5	550.1	601.0	592.4	600.1	631.8
47.5°	683.8	559.7	408.7	356.8	436.6	435.6	510.7	564.5	559.7	567.4	601.0
50°	633.7	521.2	407.7	305.8	401.0	404.9	463.6	529.0	529.0	535.6	571.3
52.5°	569.3	474.1	370.3	277.0	359.6	371.2	422.2	498.2	500.1	506.9	538.5
55°	510.7	425.0	343.3	254.9	310.6	335.7	381.8	466.4	470.3	477.0	505.8
57.5°	456.8	353.9	337.6	228.9	265.5	289.5	346.3	435.6	437.6	443.4	471.2
60°	399.1	255.8	309.6	201.0	226.0	244.3	313.5	399.1	405.8	409.6	433.7
62.5°	333.7	185.7	280.8	181.7	206.8	210.6	286.6	364.5	373.1	376.0	390.4
65°	237.6	155.8	238.5	165.4	186.6	187.6	257.7	328.9	336.6	341.4	352.0
67.5°	160.6	127.0	181.7	150.0	171.2	172.2	229.8	287.6	298.2	302.0	308.7
70°	111.6	84.6	134.6	133.6	153.9	155.8	200.0	250.1	259.6	262.5	266.4
72.5°	81.7	68.3	111.6	120.2	135.6	137.6	169.3	207.7	217.4	220.3	222.2
75°	62.5	72.1	90.4	104.9	115.4	116.3	138.5	169.3	176.0	177.9	178.9
77.5°	50.0	67.3	66.3	84.6	94.3	92.3	108.7	130.8	136.5	136.5	136.5
80°	37.5	52.9	50.0	60.6	69.2	67.3	77.9	93.3	95.2	97.1	96.2
82.5°	27.9	33.7	33.7	38.4	46.2	44.3	51.9	60.6	60.6	60.6	62.5
85°	17.3	19.2	15.4	20.2	26.0	25.0	28.9	32.7	33.7	33.7	31.7
87.5°	10.6	8.7	4.8	7.6	11.6	11.6	13.5	14.4	13.5	13.5	13.5
90°	11.6	7.9	4.4	7.9	11.6	12.4	19.5	29.0	33.7	30.0	22.6
92.5°	78.2	48.0	17.8	48.0	78.2	85.8	120.6	167.0	190.2	166.7	119.7
95°	153.2	98.0	42.6	98.0	153.2	167.1	296.7	469.7	556.1	496.3	376.5
97.5°	171.3	122.6	73.8	122.6	171.3	183.6	399.8	688.0	832.2	794.3	718.7
100°	186.3	142.1	97.8	142.1	186.3	197.4	437.3	757.2	917.1	919.9	925.4
102.5°	200.9	159.6	118.3	159.6	200.9	211.2	454.5	778.9	941.1	989.3	1085.7
105°	222.9	187.9	153.0	187.9	222.9	231.6	467.2	781.3	938.4	1046.4	1262.6
107.5°	253.7	221.1	188.5	221.1	253.7	261.8	469.6	746.5	885.1	1035.8	1337.3
110°	271.3	242.0	212.5	242.0	271.3	278.7	466.0	715.8	840.6	1009.2	1346.2



TEST NUMBER: P934611

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	292.2	264.0	236.0	264.0	292.2	299.1	466.1	688.8	800.2	972.6	1317.6
115°	323.3	297.5	271.6	297.5	323.3	329.8	470.4	657.9	751.7	917.9	1250.2
117.5°	353.7	330.2	306.7	330.2	353.7	359.6	479.2	638.6	718.3	868.3	1168.2
120°	371.4	349.3	327.1	349.3	371.4	377.0	486.3	632.1	705.0	842.0	1116.0
122.5°	391.9	369.5	347.2	369.5	391.9	397.4	496.5	628.8	694.8	818.1	1064.9
125°	418.5	398.2	377.8	398.2	418.5	423.6	510.3	625.9	683.7	788.5	998.2
127.5°	443.8	423.3	402.8	423.3	443.8	448.9	524.1	624.3	674.4	764.3	944.3
130°	460.3	438.2	416.1	438.2	460.3	465.9	534.2	625.3	670.8	750.9	911.2
132.5°	474.1	452.0	429.8	452.0	474.1	479.6	542.3	625.9	667.7	739.4	882.9
135°	490.6	470.4	450.3	470.4	490.6	495.7	551.2	625.3	662.3	722.4	842.5
137.5°	511.1	491.1	471.2	491.1	511.1	516.0	564.5	629.1	661.5	712.2	813.7
140°	525.3	506.9	488.5	506.9	525.3	529.9	572.7	629.8	658.3	702.2	789.9
142.5°	535.9	518.9	501.9	518.9	535.9	540.1	579.5	632.0	658.3	696.8	773.9
145°	551.9	537.2	522.4	537.2	551.9	555.6	588.4	632.1	653.9	685.5	748.5
147.5°	571.6	557.2	542.7	557.2	571.6	575.2	601.4	636.4	653.9	678.7	728.3
150°	582.2	569.1	556.1	569.1	582.2	585.5	608.3	638.7	653.9	674.8	716.7
152.5°	589.7	579.8	569.9	579.8	589.7	592.1	612.7	640.1	653.9	671.8	707.5
155°	605.0	597.6	590.3	597.6	605.0	606.8	622.5	643.4	653.9	668.1	696.6
157.5°	619.7	612.6	605.4	612.6	619.7	621.5	632.3	646.7	653.9	665.0	687.1
160°	626.8	621.2	615.7	621.2	626.8	628.1	636.7	648.2	653.9	663.4	682.3
162.5°	634.2	630.1	625.9	630.1	634.2	635.3	641.5	649.8	653.9	661.9	677.9
165°	644.5	640.8	637.0	640.8	644.5	645.5	648.3	652.0	653.9	659.6	671.1
167.5°	650.7	649.0	647.2	649.0	650.7	651.2	653.6	656.8	658.3	662.0	669.6
170°	657.4	655.7	653.9	655.7	657.4	657.9	658.0	658.2	658.3	662.0	669.6
172.5°	658.2	657.8	657.4	657.8	658.2	658.3	658.3	658.3	658.3	661.3	667.2
175°	662.3	662.3	662.3	662.3	662.3	662.3	661.0	659.2	658.3	660.2	663.9
177.5°	662.3	662.3	662.3	662.3	662.3	662.3	661.3	659.9	659.3	660.8	663.8
180°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3



TEST NUMBER: P934611  
 CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	981.0	978.1	981.9	971.3	981.9	978.1	981.0	987.6	981.9	985.7	989.7
5°	860.8	855.9	840.5	828.0	840.5	855.9	860.8	881.0	890.5	907.8	931.0
7.5°	769.4	765.6	761.6	754.0	761.6	765.6	769.4	775.1	784.8	800.2	817.5
10°	749.2	750.2	755.9	755.0	755.9	750.2	749.2	747.2	744.3	747.2	757.8
12.5°	801.1	809.7	841.5	839.6	841.5	809.7	801.1	762.6	736.7	731.8	733.8
15°	860.8	863.7	870.3	871.3	870.3	863.7	860.8	845.4	767.5	733.8	723.2
17.5°	866.5	867.5	872.3	872.3	872.3	867.5	866.5	859.7	833.8	788.6	728.9
20°	861.7	863.7	873.2	875.1	873.2	863.7	861.7	853.0	838.6	822.3	777.0
22.5°	859.7	863.7	871.3	870.3	871.3	863.7	859.7	846.3	833.8	822.3	804.0
25°	850.2	850.2	851.1	852.1	851.1	850.2	850.2	839.6	814.6	811.6	801.1
27.5°	830.0	831.9	837.6	836.7	837.6	831.9	830.0	826.1	799.2	796.3	788.6
30°	811.6	809.7	805.0	801.1	805.0	809.7	811.6	805.9	778.9	771.3	773.2
32.5°	781.0	776.1	771.3	768.4	771.3	776.1	781.0	778.9	758.8	748.3	750.2
35°	744.3	745.3	744.3	741.5	744.3	745.3	744.3	746.3	733.8	724.2	723.2
37.5°	718.4	720.3	719.4	715.5	719.4	720.3	718.4	716.5	699.1	696.3	698.2
40°	691.5	692.4	691.5	688.6	691.5	692.4	691.5	687.7	663.6	664.5	671.3
42.5°	665.5	664.5	661.6	659.7	661.6	664.5	665.5	659.7	629.0	626.1	638.6
45°	635.7	636.7	630.9	628.0	630.9	636.7	635.7	631.8	600.1	592.4	601.0
47.5°	605.9	605.9	601.0	598.2	601.0	605.9	605.9	601.0	567.4	559.7	564.5
50°	574.2	573.2	566.4	565.5	566.4	573.2	574.2	571.3	535.6	529.0	529.0
52.5°	537.6	537.6	538.5	540.5	538.5	537.6	537.6	538.5	506.9	500.1	498.2
55°	505.8	506.9	513.6	515.5	513.6	506.9	505.8	505.8	477.0	470.3	466.4
57.5°	473.1	473.1	478.0	478.0	478.0	473.1	473.1	471.2	443.4	437.6	435.6
60°	435.6	437.6	441.4	440.4	441.4	437.6	435.6	433.7	409.6	405.8	399.1
62.5°	396.3	398.2	399.1	397.2	399.1	398.2	396.3	390.4	376.0	373.1	364.5
65°	354.9	356.8	357.7	355.8	357.7	356.8	354.9	352.0	341.4	336.6	328.9
67.5°	312.5	311.6	310.6	314.5	310.6	311.6	312.5	308.7	302.0	298.2	287.6
70°	269.3	269.3	268.3	270.3	268.3	269.3	269.3	266.4	262.5	259.6	250.1
72.5°	223.1	222.2	226.0	223.1	226.0	222.2	223.1	222.2	220.3	217.4	207.7
75°	177.9	179.8	177.9	180.8	177.9	179.8	177.9	178.9	177.9	176.0	169.3
77.5°	135.6	137.6	135.6	135.6	135.6	137.6	135.6	136.5	136.5	136.5	130.8
80°	96.2	95.2	95.2	94.3	95.2	95.2	96.2	96.2	97.1	95.2	93.3
82.5°	61.6	60.6	60.6	62.5	60.6	60.6	61.6	62.5	60.6	60.6	60.6
85°	33.7	34.6	32.7	32.7	32.7	34.6	33.7	31.7	33.7	33.7	32.7
87.5°	12.5	11.6	11.6	11.6	11.6	11.6	12.5	13.5	13.5	13.5	14.4
90°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	22.6	30.0	33.7	29.0
92.5°	84.4	81.1	67.6	54.2	67.6	81.1	84.4	119.7	166.7	190.2	167.0
95°	286.7	276.6	235.8	195.1	235.8	276.6	286.7	376.5	496.3	556.1	469.7
97.5°	661.9	642.5	565.1	487.7	565.1	642.5	661.9	718.7	794.3	832.2	688.0
100°	929.5	906.5	814.1	721.9	814.1	906.5	929.5	925.4	919.9	917.1	757.2
102.5°	1158.0	1138.2	1059.2	980.2	1059.2	1138.2	1158.0	1085.7	989.3	941.1	778.9
105°	1424.7	1414.1	1371.6	1329.1	1371.6	1414.1	1424.7	1262.6	1046.4	938.4	781.3
107.5°	1563.4	1566.0	1576.3	1586.5	1576.3	1566.0	1563.4	1337.3	1035.8	885.1	746.5
110°	1599.0	1610.1	1654.3	1698.5	1654.3	1610.1	1599.0	1346.2	1009.2	840.6	715.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1576.3	1593.3	1661.2	1729.2	1661.2	1593.3	1576.3	1317.6	972.6	800.2	688.8
115°	1499.4	1522.9	1617.2	1711.4	1617.2	1522.9	1499.4	1250.2	917.9	751.7	657.9
117.5°	1393.2	1419.3	1523.8	1628.3	1523.8	1419.3	1393.2	1168.2	868.3	718.3	638.6
120°	1321.6	1347.0	1448.5	1550.1	1448.5	1347.0	1321.6	1116.0	842.0	705.0	632.1
122.5°	1250.0	1275.0	1375.2	1475.4	1375.2	1275.0	1250.0	1064.9	818.1	694.8	628.8
125°	1155.3	1178.4	1270.7	1363.0	1270.7	1178.4	1155.3	998.2	788.5	683.7	625.9
127.5°	1079.3	1098.8	1176.6	1254.5	1176.6	1098.8	1079.3	944.3	764.3	674.4	624.3
130°	1031.3	1049.3	1121.2	1193.1	1121.2	1049.3	1031.3	911.2	750.9	670.8	625.3
132.5°	990.4	1006.5	1070.9	1135.3	1070.9	1006.5	990.4	882.9	739.4	667.7	625.9
135°	932.6	946.4	1002.0	1057.5	1002.0	946.4	932.6	842.5	722.4	662.3	625.3
137.5°	889.9	901.3	946.7	992.2	946.7	901.3	889.9	813.7	712.2	661.5	629.1
140°	855.7	866.3	908.9	951.3	908.9	866.3	855.7	789.9	702.2	658.3	629.8
142.5°	831.7	840.9	877.4	913.9	877.4	840.9	831.7	773.9	696.8	658.3	632.0
145°	795.7	802.6	830.3	857.9	830.3	802.6	795.7	748.5	685.5	653.9	632.1
147.5°	765.5	771.2	794.1	817.0	794.1	771.2	765.5	728.3	678.7	653.9	636.4
150°	748.2	752.8	771.4	789.9	771.4	752.8	748.2	716.7	674.8	653.9	638.7
152.5°	734.4	737.9	751.9	765.9	751.9	737.9	734.4	707.5	671.8	653.9	640.1
155°	718.0	720.3	729.5	738.8	729.5	720.3	718.0	696.6	668.1	653.9	643.4
157.5°	703.7	705.3	711.8	718.3	711.8	705.3	703.7	687.1	665.0	653.9	646.7
160°	696.5	697.5	701.2	705.0	701.2	697.5	696.5	682.3	663.4	653.9	648.2
162.5°	689.9	690.8	694.3	697.9	694.3	690.8	689.9	677.9	661.9	653.9	649.8
165°	679.7	680.7	684.4	688.1	684.4	680.7	679.7	671.1	659.6	653.9	652.0
167.5°	675.2	675.6	677.2	678.8	677.2	675.6	675.2	669.6	662.0	658.3	656.8
170°	675.2	675.2	675.2	675.2	675.2	675.2	675.2	669.6	662.0	658.3	658.2
172.5°	671.7	671.3	670.0	668.5	670.0	671.3	671.7	667.2	661.3	658.3	658.3
175°	666.8	666.8	666.8	666.8	666.8	666.8	666.8	663.9	660.2	658.3	659.2
177.5°	665.9	665.6	663.9	662.3	663.9	665.6	665.9	663.8	660.8	659.3	659.9
180°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1016.5	1016.5	1016.5	1016.5	1016.5
2.5°	1004.0	1008.9	1011.7	1015.6	1025.2
5°	965.6	983.8	989.7	1004.0	1021.3
7.5°	881.0	936.7	952.1	986.7	1013.6
10°	799.2	855.0	881.9	963.6	1004.0
12.5°	757.8	790.5	808.8	923.2	990.6
15°	731.8	755.0	768.4	869.4	975.2
17.5°	711.6	728.0	737.6	816.5	954.0
20°	699.1	706.9	715.5	778.0	930.0
22.5°	690.5	685.7	692.4	751.1	897.3
25°	684.8	666.4	674.2	729.9	858.8
27.5°	689.6	649.1	652.1	710.7	818.4
30°	690.5	628.0	629.0	690.5	773.2
32.5°	683.8	605.9	606.9	665.5	722.3
35°	667.4	579.9	579.0	636.7	653.0
37.5°	645.3	552.0	552.0	605.0	577.0
40°	618.3	524.2	527.0	563.6	509.7
42.5°	585.6	494.3	498.2	508.8	459.7
45°	550.1	465.5	468.3	429.9	421.2
47.5°	510.7	435.6	436.6	356.8	408.7
50°	463.6	404.9	401.0	305.8	407.7
52.5°	422.2	371.2	359.6	277.0	370.3
55°	381.8	335.7	310.6	254.9	343.3
57.5°	346.3	289.5	265.5	228.9	337.6
60°	313.5	244.3	226.0	201.0	309.6
62.5°	286.6	210.6	206.8	181.7	280.8
65°	257.7	187.6	186.6	165.4	238.5
67.5°	229.8	172.2	171.2	150.0	181.7
70°	200.0	155.8	153.9	133.6	134.6
72.5°	169.3	137.6	135.6	120.2	111.6
75°	138.5	116.3	115.4	104.9	90.4
77.5°	108.7	92.3	94.3	84.6	66.3
80°	77.9	67.3	69.2	60.6	50.0
82.5°	51.9	44.3	46.2	38.4	33.7
85°	28.9	25.0	26.0	20.2	15.4
87.5°	13.5	11.6	11.6	7.6	4.8
90°	19.5	12.4	11.6	7.9	4.4
92.5°	120.6	85.8	78.2	48.0	17.8
95°	296.7	167.1	153.2	98.0	42.6
97.5°	399.8	183.6	171.3	122.6	73.8
100°	437.3	197.4	186.3	142.1	97.8
102.5°	454.5	211.2	200.9	159.6	118.3
105°	467.2	231.6	222.9	187.9	153.0
107.5°	469.6	261.8	253.7	221.1	188.5
110°	466.0	278.7	271.3	242.0	212.5



TEST NUMBER: P934611

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	466.1	299.1	292.2	264.0	236.0
115°	470.4	329.8	323.3	297.5	271.6
117.5°	479.2	359.6	353.7	330.2	306.7
120°	486.3	377.0	371.4	349.3	327.1
122.5°	496.5	397.4	391.9	369.5	347.2
125°	510.3	423.6	418.5	398.2	377.8
127.5°	524.1	448.9	443.8	423.3	402.8
130°	534.2	465.9	460.3	438.2	416.1
132.5°	542.3	479.6	474.1	452.0	429.8
135°	551.2	495.7	490.6	470.4	450.3
137.5°	564.5	516.0	511.1	491.1	471.2
140°	572.7	529.9	525.3	506.9	488.5
142.5°	579.5	540.1	535.9	518.9	501.9
145°	588.4	555.6	551.9	537.2	522.4
147.5°	601.4	575.2	571.6	557.2	542.7
150°	608.3	585.5	582.2	569.1	556.1
152.5°	612.7	592.1	589.7	579.8	569.9
155°	622.5	606.8	605.0	597.6	590.3
157.5°	632.3	621.5	619.7	612.6	605.4
160°	636.7	628.1	626.8	621.2	615.7
162.5°	641.5	635.3	634.2	630.1	625.9
165°	648.3	645.5	644.5	640.8	637.0
167.5°	653.6	651.2	650.7	649.0	647.2
170°	658.0	657.9	657.4	655.7	653.9
172.5°	658.3	658.3	658.2	657.8	657.4
175°	661.0	662.3	662.3	662.3	662.3
177.5°	661.3	662.3	662.3	662.3	662.3
180°	662.3	662.3	662.3	662.3	662.3



TEST NUMBER: P934611  
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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	9.98	10.74	11.03	11.80	13.23	12.80	13.56	13.85	14.62	16.05
	3H	10.44	11.13	11.51	12.19	13.64	14.14	14.82	15.20	15.88	17.34
	4H	10.63	11.28	11.71	12.35	13.80	14.57	15.22	15.65	16.29	17.75
	6H	10.74	11.34	11.83	12.41	13.88	14.85	15.45	15.94	16.52	17.99
	8H	10.74	11.31	11.83	12.40	13.86	14.92	15.49	16.01	16.58	18.04
	12H	10.71	11.25	11.80	12.33	13.82	14.96	15.50	16.05	16.58	18.07
4H	2H	10.99	11.64	12.08	12.71	14.17	13.20	13.84	14.28	14.91	16.37
	3H	12.01	12.55	13.10	13.65	15.12	14.69	15.23	15.78	16.33	17.80
	4H	12.28	12.78	13.38	13.86	15.36	15.21	15.71	16.31	16.80	18.29
	6H	12.40	12.83	13.51	13.94	15.42	15.57	16.00	16.67	17.11	18.59
	8H	12.41	12.80	13.51	13.90	15.41	15.68	16.07	16.78	17.17	18.67
	12H	12.37	12.73	13.49	13.84	15.35	15.73	16.09	16.85	17.20	18.71
8H	4H	12.73	13.13	13.83	14.23	15.73	15.33	15.73	16.43	16.83	18.33
	6H	12.99	13.31	14.11	14.46	15.95	15.76	16.09	16.89	17.23	18.73
	8H	13.03	13.31	14.16	14.44	15.96	15.91	16.20	17.04	17.32	18.84
	12H	13.01	13.26	14.14	14.38	15.93	16.00	16.26	17.14	17.38	18.93
12H	4H	12.73	13.09	13.85	14.20	15.71	15.29	15.65	16.41	16.76	18.27
	6H	13.05	13.33	14.18	14.46	15.97	15.76	16.05	16.89	17.17	18.69
	8H	13.11	13.36	14.24	14.48	16.03	15.91	16.17	17.05	17.29	18.84