

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: P934718

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

Issue Date: 12/17/2024

**Test Information**

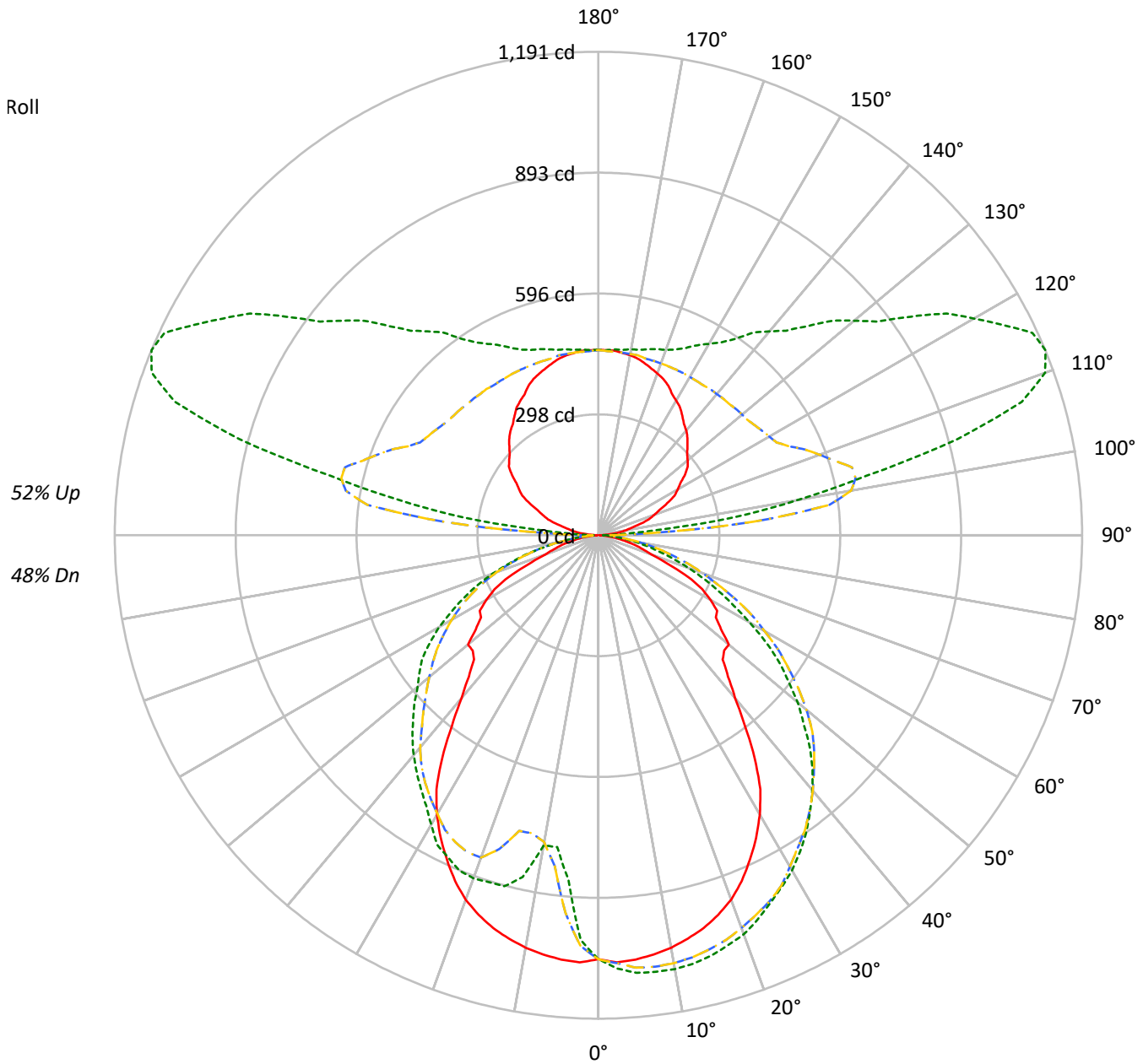
Test Method: LM-79-2019  
Report Number: P934718  
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5668.1 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 42.4  
Input Voltage (V): NR  
Input Current (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	
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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

**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	1.7
10°-20°	267.7	4.7
20°-30°	413.8	7.3
30°-40°	494.0	8.7
40°-50°	496.9	8.8
50°-60°	432.4	7.6
60°-70°	306.5	5.4
70°-80°	162.2	2.9
80°-90°	42.1	0.7
90°-100°	222.5	3.9
100°-110°	584.8	10.3
110°-120°	606.4	10.7
120°-130°	486.4	8.6
130°-140°	381.7	6.7
140°-150°	292.9	5.2
150°-160°	211.0	3.7
160°-170°	129.1	2.3
170°-180°	43.6	0.8
0°-30°	775.8	13.7
0°-40°	1269.7	22.4
0°-60°	2199.0	38.8
0°-90°	2709.8	47.8
90°-120°	1413.7	24.9
90°-150°	2574.7	45.4
90°-180°	2958.0	52.2
0°-180°	5668.1	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°	3	12	3	12	3	3
95°	29	134	29	134	29	33
105°	105	916	105	916	105	112
115°	187	1179	187	1179	187	185
125°	260	939	260	939	260	231
135°	310	729	310	729	310	240
145°	360	591	360	591	360	225
155°	407	509	407	509	407	187
165°	439	474	439	474	439	124
175°	456	459	456	459	456	43
180°	456	456	456	456	456	



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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°	3.1	5.5	8.0	8.6	13.5	20.1	23.3	20.7	15.5	11.7	11.7
92.5°	12.3	33.1	53.8	59.1	83.1	115.1	131.1	114.9	82.5	58.2	55.9
95°	29.4	67.6	105.7	115.2	204.5	323.6	383.1	341.8	259.4	197.5	190.5
97.5°	50.9	84.5	118.1	126.5	275.5	474.0	573.3	547.3	495.2	456.1	442.7
100°	67.4	97.8	128.3	135.9	301.2	521.7	631.8	633.7	637.6	640.4	624.5
102.5°	81.5	110.0	138.3	145.4	313.1	536.7	648.4	681.6	748.0	797.8	784.2
105°	105.3	129.4	153.5	159.6	321.9	538.4	646.5	721.0	869.9	981.6	974.3
107.5°	129.8	152.3	174.8	180.4	323.6	514.4	609.8	713.6	921.3	1077.1	1078.9
110°	146.4	166.7	187.0	192.1	321.1	493.1	579.2	695.3	927.4	1101.6	1109.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	162.6	182.0	201.3	206.1	321.2	474.6	551.3	670.2	907.8	1086.0	1097.8
115°	187.1	204.9	222.8	227.2	324.2	453.3	517.9	632.4	861.3	1033.1	1049.3
117.5°	211.3	227.5	243.7	247.8	330.2	440.0	494.9	598.2	804.8	959.8	977.8
120°	225.5	240.7	255.9	259.7	335.0	435.5	485.7	580.2	769.0	910.5	928.0
122.5°	239.2	254.6	269.9	273.8	342.0	433.1	478.7	563.7	733.7	861.2	878.5
125°	260.3	274.4	288.4	291.9	351.6	431.3	471.1	543.3	687.7	796.0	811.9
127.5°	277.5	291.7	305.8	309.3	361.1	430.2	464.7	526.7	650.7	743.7	757.1
130°	286.7	301.9	317.1	321.0	368.0	430.8	462.2	517.4	627.8	710.6	722.9
132.5°	296.2	311.4	326.6	330.5	373.7	431.3	460.0	509.4	608.3	682.4	693.5
135°	310.2	324.1	338.0	341.5	379.8	430.9	456.4	497.8	580.5	642.6	652.2
137.5°	324.7	338.4	352.1	355.6	389.0	433.5	455.8	490.7	560.7	613.2	621.0
140°	336.6	349.3	361.9	365.1	394.6	433.9	453.6	483.8	544.2	589.5	596.9
142.5°	345.8	357.5	369.1	372.1	399.3	435.5	453.6	480.2	533.2	573.0	579.4
145°	359.8	370.1	380.3	382.8	405.4	435.5	450.5	472.3	515.6	548.2	553.0
147.5°	374.0	383.8	393.8	396.3	414.4	438.5	450.5	467.6	501.8	527.4	531.3
150°	383.1	392.1	401.1	403.4	419.1	440.1	450.5	465.0	493.8	515.4	518.6
152.5°	392.6	399.4	406.3	407.9	422.2	441.0	450.5	462.9	487.5	506.0	508.3
155°	406.8	411.8	416.7	418.0	428.9	443.3	450.5	460.3	479.9	494.6	496.2
157.5°	417.1	422.1	427.0	428.2	435.6	445.6	450.5	458.1	473.4	484.8	485.9
160°	424.1	428.0	431.8	432.7	438.7	446.6	450.5	457.0	470.2	480.0	480.6
162.5°	431.3	434.1	437.0	437.7	441.9	447.7	450.5	456.1	467.0	475.3	475.9
165°	438.9	441.4	444.0	444.7	446.7	449.2	450.5	454.5	462.4	468.3	469.0
167.5°	445.9	447.1	448.4	448.7	450.3	452.5	453.6	456.2	461.4	465.2	465.5
170°	450.5	451.7	453.0	453.3	453.4	453.5	453.6	456.2	461.4	465.2	465.2
172.5°	453.0	453.3	453.5	453.6	453.6	453.6	453.6	455.7	459.7	462.8	462.6
175°	456.4	456.4	456.4	456.4	455.5	454.2	453.6	454.9	457.4	459.4	459.4
177.5°	456.4	456.4	456.4	456.4	455.7	454.7	454.2	455.2	457.2	458.8	458.5
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



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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°	11.7	11.7	11.7	11.7	11.7	15.5	20.7	23.3	20.1	13.5	8.6
92.5°	46.6	37.3	46.6	55.9	58.2	82.5	114.9	131.1	115.1	83.1	59.1
95°	162.5	134.5	162.5	190.5	197.5	259.4	341.8	383.1	323.6	204.5	115.2
97.5°	389.4	336.0	389.4	442.7	456.1	495.2	547.3	573.3	474.0	275.5	126.5
100°	561.0	497.4	561.0	624.5	640.4	637.6	633.7	631.8	521.7	301.2	135.9
102.5°	729.7	675.3	729.7	784.2	797.8	748.0	681.6	648.4	536.7	313.1	145.4
105°	945.0	915.8	945.0	974.3	981.6	869.9	721.0	646.5	538.4	321.9	159.6
107.5°	1086.0	1093.1	1086.0	1078.9	1077.1	921.3	713.6	609.8	514.4	323.6	180.4
110°	1139.8	1170.3	1139.8	1109.2	1101.6	927.4	695.3	579.2	493.1	321.1	192.1





TEST NUMBER: P934718

CATALOG NUMBER: SQ4-FA-075U-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°	1144.6	1191.4	1144.6	1097.8	1086.0	907.8	670.2	551.3	474.6	321.2	206.1
115°	1114.3	1179.2	1114.3	1049.3	1033.1	861.3	632.4	517.9	453.3	324.2	227.2
117.5°	1049.8	1121.9	1049.8	977.8	959.8	804.8	598.2	494.9	440.0	330.2	247.8
120°	998.0	1067.9	998.0	928.0	910.5	769.0	580.2	485.7	435.5	335.0	259.7
122.5°	947.5	1016.6	947.5	878.5	861.2	733.7	563.7	478.7	433.1	342.0	273.8
125°	875.5	939.0	875.5	811.9	796.0	687.7	543.3	471.1	431.3	351.6	291.9
127.5°	810.7	864.3	810.7	757.1	743.7	650.7	526.7	464.7	430.2	361.1	309.3
130°	772.5	822.0	772.5	722.9	710.6	627.8	517.4	462.2	430.8	368.0	321.0
132.5°	737.8	782.2	737.8	693.5	682.4	608.3	509.4	460.0	431.3	373.7	330.5
135°	690.4	728.6	690.4	652.2	642.6	580.5	497.8	456.4	430.9	379.8	341.5
137.5°	652.3	683.6	652.3	621.0	613.2	560.7	490.7	455.8	433.5	389.0	355.6
140°	626.2	655.4	626.2	596.9	589.5	544.2	483.8	453.6	433.9	394.6	365.1
142.5°	604.5	629.7	604.5	579.4	573.0	533.2	480.2	453.6	435.5	399.3	372.1
145°	572.1	591.1	572.1	553.0	548.2	515.6	472.3	450.5	435.5	405.4	382.8
147.5°	547.2	563.0	547.2	531.3	527.4	501.8	467.6	450.5	438.5	414.4	396.3
150°	531.4	544.3	531.4	518.6	515.4	493.8	465.0	450.5	440.1	419.1	403.4
152.5°	518.0	527.7	518.0	508.3	506.0	487.5	462.9	450.5	441.0	422.2	407.9
155°	502.6	509.0	502.6	496.2	494.6	479.9	460.3	450.5	443.3	428.9	418.0
157.5°	490.4	494.9	490.4	485.9	484.8	473.4	458.1	450.5	445.6	435.6	428.2
160°	483.1	485.7	483.1	480.6	480.0	470.2	457.0	450.5	446.6	438.7	432.7
162.5°	478.4	480.9	478.4	475.9	475.3	467.0	456.1	450.5	447.7	441.9	437.7
165°	471.6	474.1	471.6	469.0	468.3	462.4	454.5	450.5	449.2	446.7	444.7
167.5°	466.6	467.7	466.6	465.5	465.2	461.4	456.2	453.6	452.5	450.3	448.7
170°	465.2	465.2	465.2	465.2	465.2	461.4	456.2	453.6	453.5	453.4	453.3
172.5°	461.6	460.6	461.6	462.6	462.8	459.7	455.7	453.6	453.6	453.6	453.6
175°	459.4	459.4	459.4	459.4	459.4	457.4	454.9	453.6	454.2	455.5	456.4
177.5°	457.4	456.4	457.4	458.5	458.8	457.2	455.2	454.2	454.7	455.7	456.4
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



TEST NUMBER: P934718

CATALOG NUMBER: SQ4-FA-075U-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°	8.0	5.5	3.1	5.5	8.0	8.6	13.5	20.1	23.3	20.7	15.5
92.5°	53.8	33.1	12.3	33.1	53.8	59.1	83.1	115.1	131.1	114.9	82.5
95°	105.7	67.6	29.4	67.6	105.7	115.2	204.5	323.6	383.1	341.8	259.4
97.5°	118.1	84.5	50.9	84.5	118.1	126.5	275.5	474.0	573.3	547.3	495.2
100°	128.3	97.8	67.4	97.8	128.3	135.9	301.2	521.7	631.8	633.7	637.6
102.5°	138.3	110.0	81.5	110.0	138.3	145.4	313.1	536.7	648.4	681.6	748.0
105°	153.5	129.4	105.3	129.4	153.5	159.6	321.9	538.4	646.5	721.0	869.9
107.5°	174.8	152.3	129.8	152.3	174.8	180.4	323.6	514.4	609.8	713.6	921.3
110°	187.0	166.7	146.4	166.7	187.0	192.1	321.1	493.1	579.2	695.3	927.4



TEST NUMBER: P934718

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

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	201.3	182.0	162.6	182.0	201.3	206.1	321.2	474.6	551.3	670.2	907.8
115°	222.8	204.9	187.1	204.9	222.8	227.2	324.2	453.3	517.9	632.4	861.3
117.5°	243.7	227.5	211.3	227.5	243.7	247.8	330.2	440.0	494.9	598.2	804.8
120°	255.9	240.7	225.5	240.7	255.9	259.7	335.0	435.5	485.7	580.2	769.0
122.5°	269.9	254.6	239.2	254.6	269.9	273.8	342.0	433.1	478.7	563.7	733.7
125°	288.4	274.4	260.3	274.4	288.4	291.9	351.6	431.3	471.1	543.3	687.7
127.5°	305.8	291.7	277.5	291.7	305.8	309.3	361.1	430.2	464.7	526.7	650.7
130°	317.1	301.9	286.7	301.9	317.1	321.0	368.0	430.8	462.2	517.4	627.8
132.5°	326.6	311.4	296.2	311.4	326.6	330.5	373.7	431.3	460.0	509.4	608.3
135°	338.0	324.1	310.2	324.1	338.0	341.5	379.8	430.9	456.4	497.8	580.5
137.5°	352.1	338.4	324.7	338.4	352.1	355.6	389.0	433.5	455.8	490.7	560.7
140°	361.9	349.3	336.6	349.3	361.9	365.1	394.6	433.9	453.6	483.8	544.2
142.5°	369.1	357.5	345.8	357.5	369.1	372.1	399.3	435.5	453.6	480.2	533.2
145°	380.3	370.1	359.8	370.1	380.3	382.8	405.4	435.5	450.5	472.3	515.6
147.5°	393.8	383.8	374.0	383.8	393.8	396.3	414.4	438.5	450.5	467.6	501.8
150°	401.1	392.1	383.1	392.1	401.1	403.4	419.1	440.1	450.5	465.0	493.8
152.5°	406.3	399.4	392.6	399.4	406.3	407.9	422.2	441.0	450.5	462.9	487.5
155°	416.7	411.8	406.8	411.8	416.7	418.0	428.9	443.3	450.5	460.3	479.9
157.5°	427.0	422.1	417.1	422.1	427.0	428.2	435.6	445.6	450.5	458.1	473.4
160°	431.8	428.0	424.1	428.0	431.8	432.7	438.7	446.6	450.5	457.0	470.2
162.5°	437.0	434.1	431.3	434.1	437.0	437.7	441.9	447.7	450.5	456.1	467.0
165°	444.0	441.4	438.9	441.4	444.0	444.7	446.7	449.2	450.5	454.5	462.4
167.5°	448.4	447.1	445.9	447.1	448.4	448.7	450.3	452.5	453.6	456.2	461.4
170°	453.0	451.7	450.5	451.7	453.0	453.3	453.4	453.5	453.6	456.2	461.4
172.5°	453.5	453.3	453.0	453.3	453.5	453.6	453.6	453.6	453.6	455.7	459.7
175°	456.4	456.4	456.4	456.4	456.4	456.4	455.5	454.2	453.6	454.9	457.4
177.5°	456.4	456.4	456.4	456.4	456.4	456.4	455.7	454.7	454.2	455.2	457.2
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



TEST NUMBER: P934718  
 CATALOG NUMBER: SQ4-FA-075U-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°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	15.5	20.7	23.3	20.1
92.5°	58.2	55.9	46.6	37.3	46.6	55.9	58.2	82.5	114.9	131.1	115.1
95°	197.5	190.5	162.5	134.5	162.5	190.5	197.5	259.4	341.8	383.1	323.6
97.5°	456.1	442.7	389.4	336.0	389.4	442.7	456.1	495.2	547.3	573.3	474.0
100°	640.4	624.5	561.0	497.4	561.0	624.5	640.4	637.6	633.7	631.8	521.7
102.5°	797.8	784.2	729.7	675.3	729.7	784.2	797.8	748.0	681.6	648.4	536.7
105°	981.6	974.3	945.0	915.8	945.0	974.3	981.6	869.9	721.0	646.5	538.4
107.5°	1077.1	1078.9	1086.0	1093.1	1086.0	1078.9	1077.1	921.3	713.6	609.8	514.4
110°	1101.6	1109.2	1139.8	1170.3	1139.8	1109.2	1101.6	927.4	695.3	579.2	493.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1086.0	1097.8	1144.6	1191.4	1144.6	1097.8	1086.0	907.8	670.2	551.3	474.6
115°	1033.1	1049.3	1114.3	1179.2	1114.3	1049.3	1033.1	861.3	632.4	517.9	453.3
117.5°	959.8	977.8	1049.8	1121.9	1049.8	977.8	959.8	804.8	598.2	494.9	440.0
120°	910.5	928.0	998.0	1067.9	998.0	928.0	910.5	769.0	580.2	485.7	435.5
122.5°	861.2	878.5	947.5	1016.6	947.5	878.5	861.2	733.7	563.7	478.7	433.1
125°	796.0	811.9	875.5	939.0	875.5	811.9	796.0	687.7	543.3	471.1	431.3
127.5°	743.7	757.1	810.7	864.3	810.7	757.1	743.7	650.7	526.7	464.7	430.2
130°	710.6	722.9	772.5	822.0	772.5	722.9	710.6	627.8	517.4	462.2	430.8
132.5°	682.4	693.5	737.8	782.2	737.8	693.5	682.4	608.3	509.4	460.0	431.3
135°	642.6	652.2	690.4	728.6	690.4	652.2	642.6	580.5	497.8	456.4	430.9
137.5°	613.2	621.0	652.3	683.6	652.3	621.0	613.2	560.7	490.7	455.8	433.5
140°	589.5	596.9	626.2	655.4	626.2	596.9	589.5	544.2	483.8	453.6	433.9
142.5°	573.0	579.4	604.5	629.7	604.5	579.4	573.0	533.2	480.2	453.6	435.5
145°	548.2	553.0	572.1	591.1	572.1	553.0	548.2	515.6	472.3	450.5	435.5
147.5°	527.4	531.3	547.2	563.0	547.2	531.3	527.4	501.8	467.6	450.5	438.5
150°	515.4	518.6	531.4	544.3	531.4	518.6	515.4	493.8	465.0	450.5	440.1
152.5°	506.0	508.3	518.0	527.7	518.0	508.3	506.0	487.5	462.9	450.5	441.0
155°	494.6	496.2	502.6	509.0	502.6	496.2	494.6	479.9	460.3	450.5	443.3
157.5°	484.8	485.9	490.4	494.9	490.4	485.9	484.8	473.4	458.1	450.5	445.6
160°	480.0	480.6	483.1	485.7	483.1	480.6	480.0	470.2	457.0	450.5	446.6
162.5°	475.3	475.9	478.4	480.9	478.4	475.9	475.3	467.0	456.1	450.5	447.7
165°	468.3	469.0	471.6	474.1	471.6	469.0	468.3	462.4	454.5	450.5	449.2
167.5°	465.2	465.5	466.6	467.7	466.6	465.5	465.2	461.4	456.2	453.6	452.5
170°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	461.4	456.2	453.6	453.5
172.5°	462.8	462.6	461.6	460.6	461.6	462.6	462.8	459.7	455.7	453.6	453.6
175°	459.4	459.4	459.4	459.4	459.4	459.4	459.4	457.4	454.9	453.6	454.2
177.5°	458.8	458.5	457.4	456.4	457.4	458.5	458.8	457.2	455.2	454.2	454.7
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



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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°	13.5	8.6	8.0	5.5	3.1
92.5°	83.1	59.1	53.8	33.1	12.3
95°	204.5	115.2	105.7	67.6	29.4
97.5°	275.5	126.5	118.1	84.5	50.9
100°	301.2	135.9	128.3	97.8	67.4
102.5°	313.1	145.4	138.3	110.0	81.5
105°	321.9	159.6	153.5	129.4	105.3
107.5°	323.6	180.4	174.8	152.3	129.8
110°	321.1	192.1	187.0	166.7	146.4



TEST NUMBER: P934718

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

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	321.2	206.1	201.3	182.0	162.6
115°	324.2	227.2	222.8	204.9	187.1
117.5°	330.2	247.8	243.7	227.5	211.3
120°	335.0	259.7	255.9	240.7	225.5
122.5°	342.0	273.8	269.9	254.6	239.2
125°	351.6	291.9	288.4	274.4	260.3
127.5°	361.1	309.3	305.8	291.7	277.5
130°	368.0	321.0	317.1	301.9	286.7
132.5°	373.7	330.5	326.6	311.4	296.2
135°	379.8	341.5	338.0	324.1	310.2
137.5°	389.0	355.6	352.1	338.4	324.7
140°	394.6	365.1	361.9	349.3	336.6
142.5°	399.3	372.1	369.1	357.5	345.8
145°	405.4	382.8	380.3	370.1	359.8
147.5°	414.4	396.3	393.8	383.8	374.0
150°	419.1	403.4	401.1	392.1	383.1
152.5°	422.2	407.9	406.3	399.4	392.6
155°	428.9	418.0	416.7	411.8	406.8
157.5°	435.6	428.2	427.0	422.1	417.1
160°	438.7	432.7	431.8	428.0	424.1
162.5°	441.9	437.7	437.0	434.1	431.3
165°	446.7	444.7	444.0	441.4	438.9
167.5°	450.3	448.7	448.4	447.1	445.9
170°	453.4	453.3	453.0	451.7	450.5
172.5°	453.6	453.6	453.5	453.3	453.0
175°	455.5	456.4	456.4	456.4	456.4
177.5°	455.7	456.4	456.4	456.4	456.4
180°	456.4	456.4	456.4	456.4	456.4



TEST NUMBER: P934718  
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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	12.48	13.32	13.45	14.31	15.61	15.28	16.12	16.25	17.11	18.41
	3H	12.95	13.71	13.94	14.71	16.03	16.61	17.36	17.60	18.36	19.69
	4H	13.14	13.86	14.14	14.86	16.19	17.05	17.76	18.05	18.76	20.09
	6H	13.26	13.92	14.27	14.93	16.27	17.32	17.98	18.33	18.99	20.33
	8H	13.26	13.89	14.28	14.91	16.25	17.39	18.02	18.41	19.04	20.38
	12H	13.23	13.83	14.26	14.85	16.21	17.43	18.02	18.45	19.04	20.40
4H	2H	13.50	14.22	14.51	15.22	16.55	15.68	16.40	16.69	17.40	18.73
	3H	14.53	15.12	15.54	16.15	17.50	17.18	17.77	18.19	18.80	20.15
	4H	14.80	15.35	15.82	16.37	17.74	17.70	18.24	18.72	19.27	20.63
	6H	14.93	15.39	15.96	16.44	17.80	18.06	18.52	19.09	19.57	20.93
	8H	14.93	15.37	15.97	16.41	17.79	18.16	18.59	19.19	19.63	21.01
	12H	14.90	15.29	15.95	16.35	17.73	18.21	18.60	19.26	19.66	21.04
8H	4H	15.25	15.69	16.28	16.72	18.10	17.82	18.26	18.86	19.30	20.68
	6H	15.51	15.87	16.57	16.95	18.33	18.25	18.61	19.31	19.69	21.07
	8H	15.55	15.87	16.62	16.93	18.33	18.40	18.71	19.46	19.78	21.18
	12H	15.53	15.81	16.60	16.87	18.31	18.49	18.77	19.56	19.83	21.27
12H	4H	15.25	15.65	16.31	16.70	18.09	17.79	18.18	18.84	19.24	20.62
	6H	15.57	15.89	16.63	16.95	18.35	18.25	18.57	19.31	19.63	21.03
	8H	15.63	15.91	16.70	16.97	18.41	18.40	18.68	19.47	19.74	21.18