

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: P934318

Luminaire Tested: SQ4-FA-050U-075D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

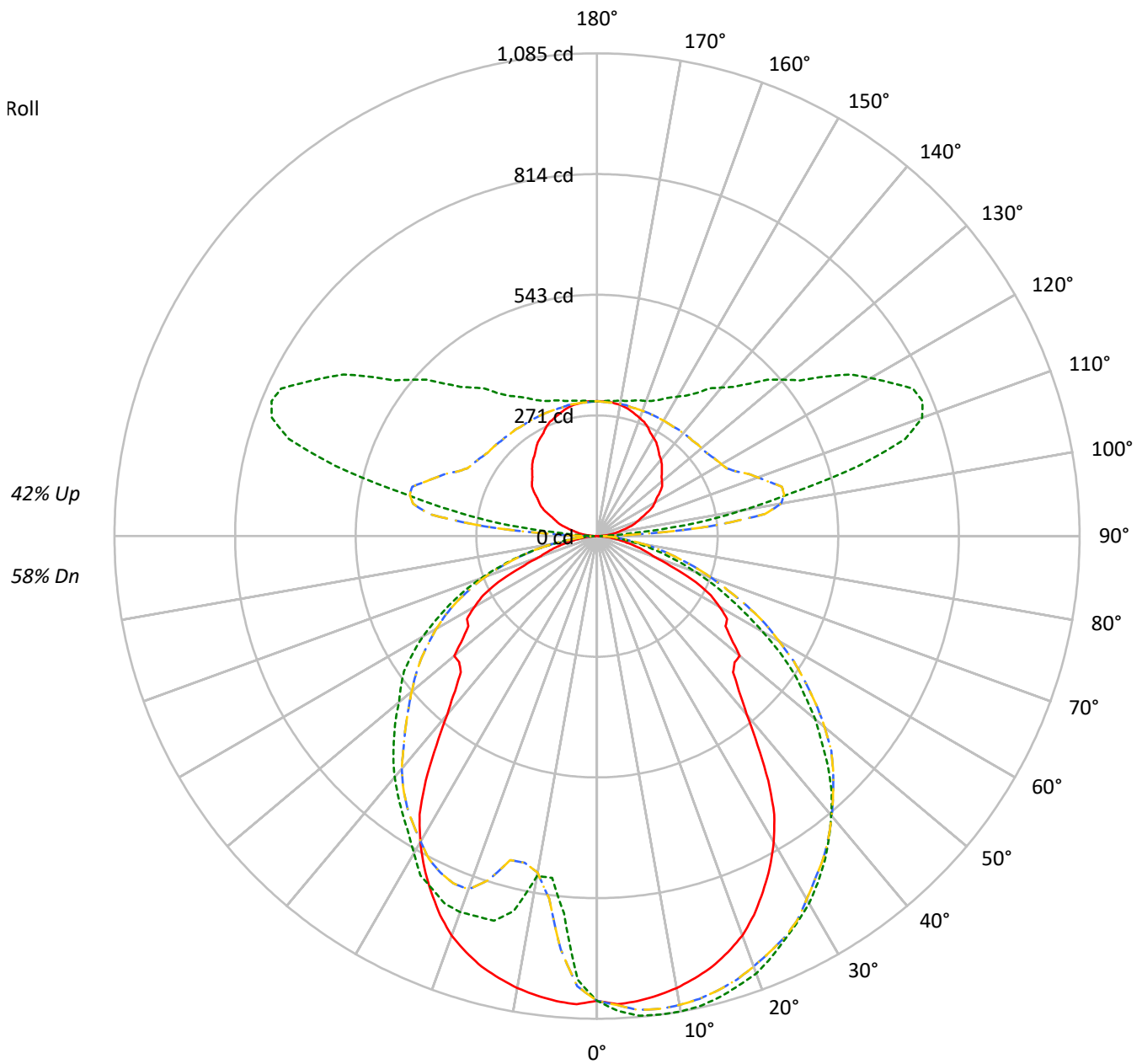
Test Method: LM-79-2019  
Report Number: P934318  
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4676.1 lumens  
Efficiency: N/A  
Efficacy: 128.5 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): 36.4  
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

TEST NUMBER: P934318  
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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	50	30	10	0
RCR																					
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

**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	2.0
10°-20°	267.7	5.7
20°-30°	413.8	8.8
30°-40°	494.0	10.6
40°-50°	496.9	10.6
50°-60°	432.4	9.2
60°-70°	306.5	6.6
70°-80°	162.2	3.5
80°-90°	41.5	0.9
90°-100°	147.9	3.2
100°-110°	388.9	8.3
110°-120°	403.2	8.6
120°-130°	323.4	6.9
130°-140°	253.8	5.4
140°-150°	194.8	4.2
150°-160°	140.3	3.0
160°-170°	85.8	1.8
170°-180°	29.0	0.6
0°-30°	775.8	16.6
0°-40°	1269.7	27.2
0°-60°	2199.0	47.0
0°-90°	2709.2	57.9
90°-120°	939.9	20.1
90°-150°	1711.8	36.6
90°-180°	1967.0	42.1
0°-180°	4676.1	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°	2	8	2	8	2	2
95°	20	89	20	89	20	22
105°	70	609	70	609	70	74
115°	124	784	124	784	124	123
125°	173	624	173	624	173	154
135°	206	484	206	484	206	160
145°	239	393	239	393	239	150
155°	270	338	270	338	270	124
165°	292	315	292	315	292	82
175°	303	306	303	306	303	29
180°	303	303	303	303	303	



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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°	2.1	3.7	5.3	5.7	9.0	13.3	15.5	13.7	10.3	7.7	7.7
92.5°	8.1	21.9	35.9	39.3	55.2	76.5	87.1	76.4	54.8	38.7	37.1
95°	19.6	44.9	70.2	76.6	135.9	215.1	254.7	227.2	172.4	131.3	126.7
97.5°	33.8	56.1	78.4	84.1	183.1	315.2	381.2	363.9	329.2	303.2	294.3
100°	44.8	65.0	85.4	90.4	200.3	346.8	420.1	421.4	424.0	425.8	415.3
102.5°	54.1	73.1	92.0	96.7	208.2	356.8	431.1	453.2	497.4	530.5	521.4
105°	70.0	86.1	102.1	106.1	214.0	358.0	429.9	479.4	578.4	652.7	647.8
107.5°	86.4	101.3	116.2	119.9	215.1	342.0	405.5	474.5	612.7	716.2	717.4
110°	97.3	110.8	124.3	127.6	213.5	327.9	385.1	462.3	616.7	732.5	737.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	108.1	120.9	133.8	137.0	213.5	315.6	366.5	445.6	603.6	722.1	729.9
115°	124.4	136.2	148.1	151.1	215.5	301.3	344.3	420.4	572.6	686.9	697.6
117.5°	140.5	151.3	162.0	164.7	219.5	292.5	329.1	397.8	535.1	638.1	650.1
120°	149.9	160.1	170.1	172.7	222.8	289.6	323.0	385.7	511.3	605.4	617.1
122.5°	159.1	169.3	179.5	182.1	227.4	288.0	318.2	374.7	487.9	572.6	584.1
125°	173.1	182.4	191.7	194.0	233.8	286.7	313.2	361.2	457.2	529.3	539.8
127.5°	184.5	193.9	203.3	205.7	240.1	286.0	308.9	350.1	432.5	494.4	503.3
130°	190.6	200.8	210.8	213.4	244.7	286.4	307.3	344.0	417.4	472.5	480.7
132.5°	196.9	207.1	217.2	219.7	248.5	286.7	305.9	338.7	404.4	453.7	461.1
135°	206.3	215.5	224.8	227.0	252.5	286.4	303.4	330.9	385.9	427.2	433.5
137.5°	215.9	225.0	234.2	236.4	258.7	288.2	303.0	326.2	372.8	407.6	412.9
140°	223.8	232.2	240.7	242.8	262.3	288.5	301.5	321.7	361.9	392.0	396.9
142.5°	229.9	237.7	245.4	247.4	265.5	289.5	301.5	319.2	354.5	381.0	385.1
145°	239.3	246.0	252.8	254.5	269.5	289.6	299.6	314.0	342.8	364.5	367.6
147.5°	248.7	255.3	261.8	263.5	275.6	291.6	299.6	310.9	333.6	350.6	353.3
150°	254.7	260.6	266.7	268.1	278.6	292.5	299.6	309.1	328.3	342.7	344.9
152.5°	261.0	265.6	270.1	271.2	280.7	293.2	299.6	307.8	324.2	336.4	338.0
155°	270.4	273.8	277.1	277.9	285.1	294.7	299.6	306.1	319.1	328.9	330.0
157.5°	277.3	280.6	283.9	284.6	289.6	296.2	299.6	304.6	314.8	322.4	323.2
160°	282.1	284.5	287.1	287.7	291.7	296.9	299.6	303.9	312.6	319.1	319.5
162.5°	286.7	288.6	290.5	291.0	293.8	297.7	299.6	303.2	310.5	316.1	316.5
165°	291.9	293.5	295.3	295.7	297.0	298.7	299.6	302.1	307.4	311.3	311.7
167.5°	296.5	297.3	298.1	298.3	299.4	300.8	301.5	303.3	306.8	309.3	309.5
170°	299.6	300.4	301.1	301.3	301.4	301.5	301.5	303.3	306.8	309.3	309.3
172.5°	301.1	301.3	301.5	301.5	301.5	301.5	301.5	302.9	305.6	307.7	307.5
175°	303.4	303.4	303.4	303.4	302.8	301.9	301.5	302.4	304.2	305.5	305.5
177.5°	303.4	303.4	303.4	303.4	302.9	302.3	302.0	302.7	304.1	305.1	304.9
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



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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°	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3	9.0	5.7
92.5°	31.0	24.8	31.0	37.1	38.7	54.8	76.4	87.1	76.5	55.2	39.3
95°	108.0	89.4	108.0	126.7	131.3	172.4	227.2	254.7	215.1	135.9	76.6
97.5°	258.9	223.4	258.9	294.3	303.2	329.2	363.9	381.2	315.2	183.1	84.1
100°	373.0	330.7	373.0	415.3	425.8	424.0	421.4	420.1	346.8	200.3	90.4
102.5°	485.2	449.0	485.2	521.4	530.5	497.4	453.2	431.1	356.8	208.2	96.7
105°	628.4	608.9	628.4	647.8	652.7	578.4	479.4	429.9	358.0	214.0	106.1
107.5°	722.0	726.8	722.0	717.4	716.2	612.7	474.5	405.5	342.0	215.1	119.9
110°	757.8	778.0	757.8	737.5	732.5	616.7	462.3	385.1	327.9	213.5	127.6





TEST NUMBER: P934318

CATALOG NUMBER: SQ4-FA-050U-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°	761.1	792.2	761.1	729.9	722.1	603.6	445.6	366.5	315.6	213.5	137.0
115°	740.8	784.0	740.8	697.6	686.9	572.6	420.4	344.3	301.3	215.5	151.1
117.5°	698.0	745.9	698.0	650.1	638.1	535.1	397.8	329.1	292.5	219.5	164.7
120°	663.5	710.1	663.5	617.1	605.4	511.3	385.7	323.0	289.6	222.8	172.7
122.5°	630.0	675.9	630.0	584.1	572.6	487.9	374.7	318.2	288.0	227.4	182.1
125°	582.0	624.3	582.0	539.8	529.3	457.2	361.2	313.2	286.7	233.8	194.0
127.5°	539.0	574.6	539.0	503.3	494.4	432.5	350.1	308.9	286.0	240.1	205.7
130°	513.7	546.6	513.7	480.7	472.5	417.4	344.0	307.3	286.4	244.7	213.4
132.5°	490.5	520.1	490.5	461.1	453.7	404.4	338.7	305.9	286.7	248.5	219.7
135°	459.0	484.4	459.0	433.5	427.2	385.9	330.9	303.4	286.4	252.5	227.0
137.5°	433.6	454.5	433.6	412.9	407.6	372.8	326.2	303.0	288.2	258.7	236.4
140°	416.3	435.8	416.3	396.9	392.0	361.9	321.7	301.5	288.5	262.3	242.8
142.5°	401.9	418.7	401.9	385.1	381.0	354.5	319.2	301.5	289.5	265.5	247.4
145°	380.4	393.0	380.4	367.6	364.5	342.8	314.0	299.6	289.6	269.5	254.5
147.5°	363.8	374.3	363.8	353.3	350.6	333.6	310.9	299.6	291.6	275.6	263.5
150°	353.4	361.9	353.4	344.9	342.7	328.3	309.1	299.6	292.5	278.6	268.1
152.5°	344.4	350.8	344.4	338.0	336.4	324.2	307.8	299.6	293.2	280.7	271.2
155°	334.2	338.5	334.2	330.0	328.9	319.1	306.1	299.6	294.7	285.1	277.9
157.5°	326.1	329.1	326.1	323.2	322.4	314.8	304.6	299.6	296.2	289.6	284.6
160°	321.3	323.0	321.3	319.5	319.1	312.6	303.9	299.6	296.9	291.7	287.7
162.5°	318.1	319.7	318.1	316.5	316.1	310.5	303.2	299.6	297.7	293.8	291.0
165°	313.5	315.3	313.5	311.7	311.3	307.4	302.1	299.6	298.7	297.0	295.7
167.5°	310.2	310.9	310.2	309.5	309.3	306.8	303.3	301.5	300.8	299.4	298.3
170°	309.3	309.3	309.3	309.3	309.3	306.8	303.3	301.5	301.5	301.4	301.3
172.5°	306.9	306.3	306.9	307.5	307.7	305.6	302.9	301.5	301.5	301.5	301.5
175°	305.5	305.5	305.5	305.5	305.5	304.2	302.4	301.5	301.9	302.8	303.4
177.5°	304.2	303.4	304.2	304.9	305.1	304.1	302.7	302.0	302.3	302.9	303.4
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934318

CATALOG NUMBER: SQ4-FA-050U-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°	5.3	3.7	2.1	3.7	5.3	5.7	9.0	13.3	15.5	13.7	10.3
92.5°	35.9	21.9	8.1	21.9	35.9	39.3	55.2	76.5	87.1	76.4	54.8
95°	70.2	44.9	19.6	44.9	70.2	76.6	135.9	215.1	254.7	227.2	172.4
97.5°	78.4	56.1	33.8	56.1	78.4	84.1	183.1	315.2	381.2	363.9	329.2
100°	85.4	65.0	44.8	65.0	85.4	90.4	200.3	346.8	420.1	421.4	424.0
102.5°	92.0	73.1	54.1	73.1	92.0	96.7	208.2	356.8	431.1	453.2	497.4
105°	102.1	86.1	70.0	86.1	102.1	106.1	214.0	358.0	429.9	479.4	578.4
107.5°	116.2	101.3	86.4	101.3	116.2	119.9	215.1	342.0	405.5	474.5	612.7
110°	124.3	110.8	97.3	110.8	124.3	127.6	213.5	327.9	385.1	462.3	616.7



TEST NUMBER: P934318

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	133.8	120.9	108.1	120.9	133.8	137.0	213.5	315.6	366.5	445.6	603.6
115°	148.1	136.2	124.4	136.2	148.1	151.1	215.5	301.3	344.3	420.4	572.6
117.5°	162.0	151.3	140.5	151.3	162.0	164.7	219.5	292.5	329.1	397.8	535.1
120°	170.1	160.1	149.9	160.1	170.1	172.7	222.8	289.6	323.0	385.7	511.3
122.5°	179.5	169.3	159.1	169.3	179.5	182.1	227.4	288.0	318.2	374.7	487.9
125°	191.7	182.4	173.1	182.4	191.7	194.0	233.8	286.7	313.2	361.2	457.2
127.5°	203.3	193.9	184.5	193.9	203.3	205.7	240.1	286.0	308.9	350.1	432.5
130°	210.8	200.8	190.6	200.8	210.8	213.4	244.7	286.4	307.3	344.0	417.4
132.5°	217.2	207.1	196.9	207.1	217.2	219.7	248.5	286.7	305.9	338.7	404.4
135°	224.8	215.5	206.3	215.5	224.8	227.0	252.5	286.4	303.4	330.9	385.9
137.5°	234.2	225.0	215.9	225.0	234.2	236.4	258.7	288.2	303.0	326.2	372.8
140°	240.7	232.2	223.8	232.2	240.7	242.8	262.3	288.5	301.5	321.7	361.9
142.5°	245.4	237.7	229.9	237.7	245.4	247.4	265.5	289.5	301.5	319.2	354.5
145°	252.8	246.0	239.3	246.0	252.8	254.5	269.5	289.6	299.6	314.0	342.8
147.5°	261.8	255.3	248.7	255.3	261.8	263.5	275.6	291.6	299.6	310.9	333.6
150°	266.7	260.6	254.7	260.6	266.7	268.1	278.6	292.5	299.6	309.1	328.3
152.5°	270.1	265.6	261.0	265.6	270.1	271.2	280.7	293.2	299.6	307.8	324.2
155°	277.1	273.8	270.4	273.8	277.1	277.9	285.1	294.7	299.6	306.1	319.1
157.5°	283.9	280.6	277.3	280.6	283.9	284.6	289.6	296.2	299.6	304.6	314.8
160°	287.1	284.5	282.1	284.5	287.1	287.7	291.7	296.9	299.6	303.9	312.6
162.5°	290.5	288.6	286.7	288.6	290.5	291.0	293.8	297.7	299.6	303.2	310.5
165°	295.3	293.5	291.9	293.5	295.3	295.7	297.0	298.7	299.6	302.1	307.4
167.5°	298.1	297.3	296.5	297.3	298.1	298.3	299.4	300.8	301.5	303.3	306.8
170°	301.1	300.4	299.6	300.4	301.1	301.3	301.4	301.5	301.5	303.3	306.8
172.5°	301.5	301.3	301.1	301.3	301.5	301.5	301.5	301.5	301.5	302.9	305.6
175°	303.4	303.4	303.4	303.4	303.4	303.4	302.8	301.9	301.5	302.4	304.2
177.5°	303.4	303.4	303.4	303.4	303.4	303.4	302.9	302.3	302.0	302.7	304.1
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934318  
 CATALOG NUMBER: SQ4-FA-050U-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°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3
92.5°	38.7	37.1	31.0	24.8	31.0	37.1	38.7	54.8	76.4	87.1	76.5
95°	131.3	126.7	108.0	89.4	108.0	126.7	131.3	172.4	227.2	254.7	215.1
97.5°	303.2	294.3	258.9	223.4	258.9	294.3	303.2	329.2	363.9	381.2	315.2
100°	425.8	415.3	373.0	330.7	373.0	415.3	425.8	424.0	421.4	420.1	346.8
102.5°	530.5	521.4	485.2	449.0	485.2	521.4	530.5	497.4	453.2	431.1	356.8
105°	652.7	647.8	628.4	608.9	628.4	647.8	652.7	578.4	479.4	429.9	358.0
107.5°	716.2	717.4	722.0	726.8	722.0	717.4	716.2	612.7	474.5	405.5	342.0
110°	732.5	737.5	757.8	778.0	757.8	737.5	732.5	616.7	462.3	385.1	327.9



TEST NUMBER: P934318

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	722.1	729.9	761.1	792.2	761.1	729.9	722.1	603.6	445.6	366.5	315.6
115°	686.9	697.6	740.8	784.0	740.8	697.6	686.9	572.6	420.4	344.3	301.3
117.5°	638.1	650.1	698.0	745.9	698.0	650.1	638.1	535.1	397.8	329.1	292.5
120°	605.4	617.1	663.5	710.1	663.5	617.1	605.4	511.3	385.7	323.0	289.6
122.5°	572.6	584.1	630.0	675.9	630.0	584.1	572.6	487.9	374.7	318.2	288.0
125°	529.3	539.8	582.0	624.3	582.0	539.8	529.3	457.2	361.2	313.2	286.7
127.5°	494.4	503.3	539.0	574.6	539.0	503.3	494.4	432.5	350.1	308.9	286.0
130°	472.5	480.7	513.7	546.6	513.7	480.7	472.5	417.4	344.0	307.3	286.4
132.5°	453.7	461.1	490.5	520.1	490.5	461.1	453.7	404.4	338.7	305.9	286.7
135°	427.2	433.5	459.0	484.4	459.0	433.5	427.2	385.9	330.9	303.4	286.4
137.5°	407.6	412.9	433.6	454.5	433.6	412.9	407.6	372.8	326.2	303.0	288.2
140°	392.0	396.9	416.3	435.8	416.3	396.9	392.0	361.9	321.7	301.5	288.5
142.5°	381.0	385.1	401.9	418.7	401.9	385.1	381.0	354.5	319.2	301.5	289.5
145°	364.5	367.6	380.4	393.0	380.4	367.6	364.5	342.8	314.0	299.6	289.6
147.5°	350.6	353.3	363.8	374.3	363.8	353.3	350.6	333.6	310.9	299.6	291.6
150°	342.7	344.9	353.4	361.9	353.4	344.9	342.7	328.3	309.1	299.6	292.5
152.5°	336.4	338.0	344.4	350.8	344.4	338.0	336.4	324.2	307.8	299.6	293.2
155°	328.9	330.0	334.2	338.5	334.2	330.0	328.9	319.1	306.1	299.6	294.7
157.5°	322.4	323.2	326.1	329.1	326.1	323.2	322.4	314.8	304.6	299.6	296.2
160°	319.1	319.5	321.3	323.0	321.3	319.5	319.1	312.6	303.9	299.6	296.9
162.5°	316.1	316.5	318.1	319.7	318.1	316.5	316.1	310.5	303.2	299.6	297.7
165°	311.3	311.7	313.5	315.3	313.5	311.7	311.3	307.4	302.1	299.6	298.7
167.5°	309.3	309.5	310.2	310.9	310.2	309.5	309.3	306.8	303.3	301.5	300.8
170°	309.3	309.3	309.3	309.3	309.3	309.3	309.3	306.8	303.3	301.5	301.5
172.5°	307.7	307.5	306.9	306.3	306.9	307.5	307.7	305.6	302.9	301.5	301.5
175°	305.5	305.5	305.5	305.5	305.5	305.5	305.5	304.2	302.4	301.5	301.9
177.5°	305.1	304.9	304.2	303.4	304.2	304.9	305.1	304.1	302.7	302.0	302.3
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934318

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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°	9.0	5.7	5.3	3.7	2.1
92.5°	55.2	39.3	35.9	21.9	8.1
95°	135.9	76.6	70.2	44.9	19.6
97.5°	183.1	84.1	78.4	56.1	33.8
100°	200.3	90.4	85.4	65.0	44.8
102.5°	208.2	96.7	92.0	73.1	54.1
105°	214.0	106.1	102.1	86.1	70.0
107.5°	215.1	119.9	116.2	101.3	86.4
110°	213.5	127.6	124.3	110.8	97.3



TEST NUMBER: P934318

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	213.5	137.0	133.8	120.9	108.1
115°	215.5	151.1	148.1	136.2	124.4
117.5°	219.5	164.7	162.0	151.3	140.5
120°	222.8	172.7	170.1	160.1	149.9
122.5°	227.4	182.1	179.5	169.3	159.1
125°	233.8	194.0	191.7	182.4	173.1
127.5°	240.1	205.7	203.3	193.9	184.5
130°	244.7	213.4	210.8	200.8	190.6
132.5°	248.5	219.7	217.2	207.1	196.9
135°	252.5	227.0	224.8	215.5	206.3
137.5°	258.7	236.4	234.2	225.0	215.9
140°	262.3	242.8	240.7	232.2	223.8
142.5°	265.5	247.4	245.4	237.7	229.9
145°	269.5	254.5	252.8	246.0	239.3
147.5°	275.6	263.5	261.8	255.3	248.7
150°	278.6	268.1	266.7	260.6	254.7
152.5°	280.7	271.2	270.1	265.6	261.0
155°	285.1	277.9	277.1	273.8	270.4
157.5°	289.6	284.6	283.9	280.6	277.3
160°	291.7	287.7	287.1	284.5	282.1
162.5°	293.8	291.0	290.5	288.6	286.7
165°	297.0	295.7	295.3	293.5	291.9
167.5°	299.4	298.3	298.1	297.3	296.5
170°	301.4	301.3	301.1	300.4	299.6
172.5°	301.5	301.5	301.5	301.3	301.1
175°	302.8	303.4	303.4	303.4	303.4
177.5°	302.9	303.4	303.4	303.4	303.4
180°	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934318  
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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	13.39	14.32	14.27	15.23	16.38	16.18	17.12	17.07	18.03	19.18
	3H	13.87	14.71	14.77	15.63	16.80	17.53	18.37	18.42	19.28	20.46
	4H	14.06	14.86	14.98	15.78	16.97	17.97	18.76	18.88	19.68	20.87
	6H	14.19	14.92	15.11	15.85	17.05	18.25	18.98	19.17	19.91	21.11
	8H	14.19	14.89	15.12	15.83	17.03	18.32	19.02	19.25	19.96	21.16
	12H	14.16	14.83	15.10	15.77	16.99	18.36	19.02	19.30	19.96	21.18
4H	2H	14.42	15.22	15.34	16.14	17.33	16.61	17.40	17.52	18.32	19.51
	3H	15.45	16.12	16.38	17.07	18.27	18.11	18.77	19.04	19.72	20.92
	4H	15.73	16.34	16.67	17.29	18.51	18.63	19.24	19.57	20.18	21.41
	6H	15.86	16.38	16.82	17.36	18.58	18.99	19.51	19.95	20.49	21.71
	8H	15.87	16.36	16.83	17.32	18.56	19.10	19.58	20.05	20.55	21.79
	12H	15.84	16.28	16.82	17.26	18.51	19.15	19.59	20.13	20.57	21.82
8H	4H	16.19	16.68	17.14	17.64	18.88	18.76	19.25	19.72	20.21	21.46
	6H	16.45	16.86	17.43	17.86	19.10	19.20	19.60	20.18	20.60	21.84
	8H	16.50	16.85	17.49	17.85	19.11	19.34	19.70	20.33	20.69	21.95
	12H	16.48	16.80	17.48	17.79	19.09	19.44	19.75	20.43	20.74	22.05
12H	4H	16.20	16.64	17.17	17.62	18.87	18.73	19.17	19.71	20.15	21.40
	6H	16.51	16.87	17.50	17.86	19.12	19.19	19.55	20.18	20.54	21.80
	8H	16.58	16.90	17.58	17.88	19.19	19.35	19.67	20.35	20.65	21.96