

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: P933811

Luminaire Tested: SQ4-FA-025U-050D-830-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

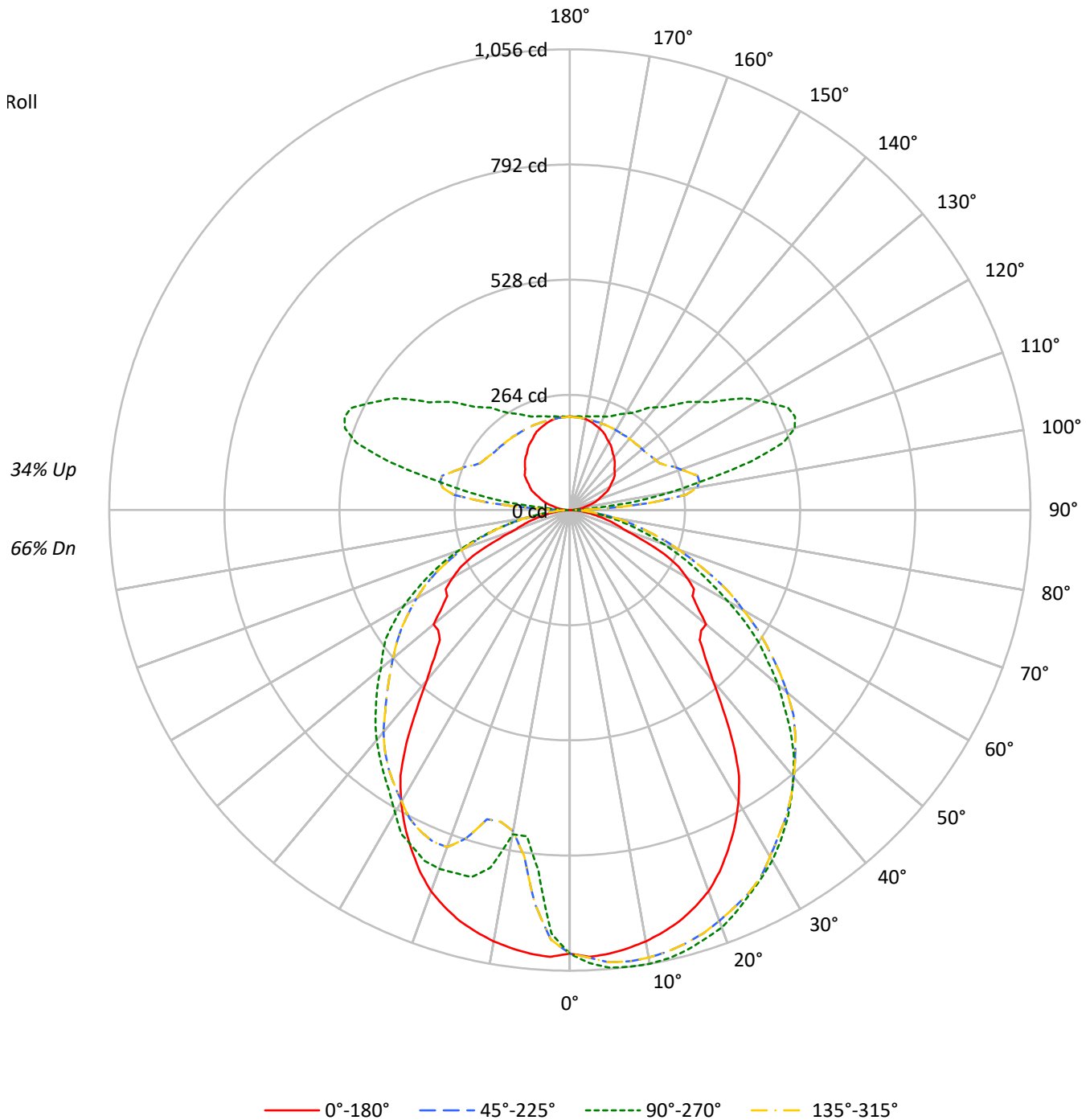
Test Method: LM-79-2019  
Report Number: P933811  
REPORT IS A COMBINATION OF REPORTS P933675 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4023.8 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**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	2.3
10°-20°	260.5	6.5
20°-30°	402.7	10.0
30°-40°	480.8	11.9
40°-50°	483.6	12.0
50°-60°	420.8	10.5
60°-70°	298.3	7.4
70°-80°	157.8	3.9
80°-90°	40.1	1.0
90°-100°	104.3	2.6
100°-110°	274.2	6.8
110°-120°	284.4	7.1
120°-130°	228.1	5.7
130°-140°	179.0	4.4
140°-150°	137.4	3.4
150°-160°	98.9	2.5
160°-170°	60.5	1.5
170°-180°	20.5	0.5
0°-30°	755.0	18.8
0°-40°	1235.8	30.7
0°-60°	2140.2	53.2
0°-90°	2636.5	65.5
90°-120°	662.9	16.5
90°-150°	1207.4	30.0
90°-180°	1387.0	34.5
0°-180°	4023.8	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°	1	5	1	5	1	2
95°	14	63	14	63	14	15
105°	49	429	49	429	49	52
115°	88	553	88	553	88	87
125°	122	440	122	440	122	108
135°	146	342	146	342	146	113
145°	169	277	169	277	169	106
155°	191	239	191	239	191	88
165°	206	222	206	222	206	58
175°	214	216	214	216	214	20
180°	214	214	214	214	214	



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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°	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.7	7.3	5.4	5.4
92.5°	5.7	15.5	25.2	27.7	39.0	54.0	61.5	53.8	38.6	27.2	26.2
95°	13.8	31.6	49.5	54.0	95.9	151.7	179.6	160.3	121.6	92.6	89.4
97.5°	23.8	39.6	55.4	59.3	129.2	222.3	268.8	256.6	232.2	213.9	207.6
100°	31.6	45.9	60.2	63.8	141.3	244.6	296.3	297.1	298.9	300.3	292.8
102.5°	38.2	51.6	64.9	68.3	146.8	251.6	304.0	319.6	350.8	374.2	367.8
105°	49.4	60.7	72.0	74.9	151.0	252.4	303.1	338.0	407.9	460.3	456.9
107.5°	60.9	71.4	81.9	84.6	151.7	241.2	285.9	334.7	432.1	505.2	506.0
110°	68.6	78.2	87.7	90.1	150.6	231.3	271.6	326.1	435.0	516.6	520.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	76.3	85.4	94.4	96.7	150.6	222.6	258.5	314.2	425.7	509.3	514.7
115°	87.8	96.2	104.5	106.6	152.0	212.5	242.8	296.6	403.9	484.4	492.1
117.5°	99.1	106.7	114.2	116.2	154.8	206.3	232.1	280.6	377.4	450.1	458.5
120°	105.7	112.9	120.0	121.8	157.2	204.3	227.8	272.1	360.6	427.0	435.3
122.5°	112.1	119.4	126.6	128.4	160.4	203.2	224.5	264.3	344.1	403.9	412.0
125°	122.1	128.7	135.3	136.9	164.9	202.3	220.9	254.8	322.6	373.3	380.8
127.5°	130.1	136.7	143.4	145.0	169.3	201.7	217.9	246.9	305.2	348.7	355.1
130°	134.4	141.6	148.7	150.5	172.6	202.0	216.7	242.6	294.4	333.2	339.0
132.5°	138.9	146.1	153.2	155.0	175.2	202.3	215.8	238.9	285.3	320.0	325.1
135°	145.5	152.0	158.5	160.1	178.1	202.1	214.0	233.5	272.3	301.3	305.8
137.5°	152.3	158.7	165.1	166.7	182.4	203.3	213.8	230.2	263.0	287.6	291.2
140°	157.8	163.8	169.7	171.2	185.1	203.5	212.7	226.9	255.3	276.5	279.9
142.5°	162.1	167.6	173.1	174.5	187.2	204.2	212.7	225.1	250.1	268.7	271.7
145°	168.7	173.5	178.3	179.5	190.1	204.2	211.3	221.4	241.8	257.1	259.3
147.5°	175.3	180.0	184.7	185.8	194.4	205.6	211.3	219.3	235.3	247.3	249.1
150°	179.6	183.8	188.1	189.2	196.6	206.4	211.3	218.1	231.5	241.7	243.2
152.5°	184.1	187.3	190.5	191.3	198.0	206.9	211.3	217.0	228.6	237.3	238.4
155°	190.7	193.1	195.5	196.1	201.1	207.9	211.3	215.9	225.0	231.9	232.7
157.5°	195.6	197.9	200.2	200.8	204.3	209.0	211.3	214.8	222.0	227.3	227.9
160°	198.9	200.8	202.5	203.0	205.7	209.5	211.3	214.3	220.5	225.0	225.3
162.5°	202.2	203.5	204.9	205.3	207.3	209.9	211.3	213.9	219.0	222.9	223.2
165°	205.8	207.0	208.2	208.5	209.5	210.7	211.3	213.1	216.8	219.6	219.9
167.5°	209.1	209.7	210.2	210.4	211.2	212.2	212.7	214.0	216.3	218.2	218.3
170°	211.3	211.8	212.4	212.5	212.6	212.7	212.7	214.0	216.3	218.2	218.2
172.5°	212.4	212.5	212.7	212.7	212.7	212.7	212.7	213.7	215.6	217.0	216.9
175°	214.0	214.0	214.0	214.0	213.6	213.0	212.7	213.3	214.5	215.5	215.5
177.5°	214.0	214.0	214.0	214.0	213.7	213.2	213.0	213.5	214.4	215.2	215.1
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



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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°	5.4	5.4	5.4	5.4	5.4	7.3	9.7	10.9	9.4	6.3	4.0
92.5°	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.5	54.0	39.0	27.7
95°	76.2	63.1	76.2	89.4	92.6	121.6	160.3	179.6	151.7	95.9	54.0
97.5°	182.6	157.5	182.6	207.6	213.9	232.2	256.6	268.8	222.3	129.2	59.3
100°	263.1	233.3	263.1	292.8	300.3	298.9	297.1	296.3	244.6	141.3	63.8
102.5°	342.2	316.7	342.2	367.8	374.2	350.8	319.6	304.0	251.6	146.8	68.3
105°	443.2	429.4	443.2	456.9	460.3	407.9	338.0	303.1	252.4	151.0	74.9
107.5°	509.3	512.6	509.3	506.0	505.2	432.1	334.7	285.9	241.2	151.7	84.6
110°	534.5	548.8	534.5	520.2	516.6	435.0	326.1	271.6	231.3	150.6	90.1





TEST NUMBER: P933811

CATALOG NUMBER: SQ4-FA-025U-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°	536.7	558.7	536.7	514.7	509.3	425.7	314.2	258.5	222.6	150.6	96.7
115°	522.5	553.0	522.5	492.1	484.4	403.9	296.6	242.8	212.5	152.0	106.6
117.5°	492.3	526.1	492.3	458.5	450.1	377.4	280.6	232.1	206.3	154.8	116.2
120°	468.1	500.8	468.1	435.3	427.0	360.6	272.1	227.8	204.3	157.2	121.8
122.5°	444.3	476.7	444.3	412.0	403.9	344.1	264.3	224.5	203.2	160.4	128.4
125°	410.5	440.3	410.5	380.8	373.3	322.6	254.8	220.9	202.3	164.9	136.9
127.5°	380.2	405.3	380.2	355.1	348.7	305.2	246.9	217.9	201.7	169.3	145.0
130°	362.2	385.5	362.2	339.0	333.2	294.4	242.6	216.7	202.0	172.6	150.5
132.5°	346.0	366.8	346.0	325.1	320.0	285.3	238.9	215.8	202.3	175.2	155.0
135°	323.7	341.7	323.7	305.8	301.3	272.3	233.5	214.0	202.1	178.1	160.1
137.5°	305.9	320.5	305.9	291.2	287.6	263.0	230.2	213.8	203.3	182.4	166.7
140°	293.6	307.4	293.6	279.9	276.5	255.3	226.9	212.7	203.5	185.1	171.2
142.5°	283.5	295.3	283.5	271.7	268.7	250.1	225.1	212.7	204.2	187.2	174.5
145°	268.3	277.2	268.3	259.3	257.1	241.8	221.4	211.3	204.2	190.1	179.5
147.5°	256.6	264.0	256.6	249.1	247.3	235.3	219.3	211.3	205.6	194.4	185.8
150°	249.2	255.3	249.2	243.2	241.7	231.5	218.1	211.3	206.4	196.6	189.2
152.5°	242.9	247.5	242.9	238.4	237.3	228.6	217.0	211.3	206.9	198.0	191.3
155°	235.7	238.7	235.7	232.7	231.9	225.0	215.9	211.3	207.9	201.1	196.1
157.5°	230.0	232.1	230.0	227.9	227.3	222.0	214.8	211.3	209.0	204.3	200.8
160°	226.6	227.8	226.6	225.3	225.0	220.5	214.3	211.3	209.5	205.7	203.0
162.5°	224.4	225.5	224.4	223.2	222.9	219.0	213.9	211.3	209.9	207.3	205.3
165°	221.1	222.4	221.1	219.9	219.6	216.8	213.1	211.3	210.7	209.5	208.5
167.5°	218.8	219.3	218.8	218.3	218.2	216.3	214.0	212.7	212.2	211.2	210.4
170°	218.2	218.2	218.2	218.2	218.2	216.3	214.0	212.7	212.7	212.6	212.5
172.5°	216.4	216.1	216.4	216.9	217.0	215.6	213.7	212.7	212.7	212.7	212.7
175°	215.5	215.5	215.5	215.5	215.5	214.5	213.3	212.7	213.0	213.6	214.0
177.5°	214.5	214.0	214.5	215.1	215.2	214.4	213.5	213.0	213.2	213.7	214.0
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



TEST NUMBER: P933811

CATALOG NUMBER: SQ4-FA-025U-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°	3.7	2.6	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.7	7.3
92.5°	25.2	15.5	5.7	15.5	25.2	27.7	39.0	54.0	61.5	53.8	38.6
95°	49.5	31.6	13.8	31.6	49.5	54.0	95.9	151.7	179.6	160.3	121.6
97.5°	55.4	39.6	23.8	39.6	55.4	59.3	129.2	222.3	268.8	256.6	232.2
100°	60.2	45.9	31.6	45.9	60.2	63.8	141.3	244.6	296.3	297.1	298.9
102.5°	64.9	51.6	38.2	51.6	64.9	68.3	146.8	251.6	304.0	319.6	350.8
105°	72.0	60.7	49.4	60.7	72.0	74.9	151.0	252.4	303.1	338.0	407.9
107.5°	81.9	71.4	60.9	71.4	81.9	84.6	151.7	241.2	285.9	334.7	432.1
110°	87.7	78.2	68.6	78.2	87.7	90.1	150.6	231.3	271.6	326.1	435.0



TEST NUMBER: P933811

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	94.4	85.4	76.3	85.4	94.4	96.7	150.6	222.6	258.5	314.2	425.7
115°	104.5	96.2	87.8	96.2	104.5	106.6	152.0	212.5	242.8	296.6	403.9
117.5°	114.2	106.7	99.1	106.7	114.2	116.2	154.8	206.3	232.1	280.6	377.4
120°	120.0	112.9	105.7	112.9	120.0	121.8	157.2	204.3	227.8	272.1	360.6
122.5°	126.6	119.4	112.1	119.4	126.6	128.4	160.4	203.2	224.5	264.3	344.1
125°	135.3	128.7	122.1	128.7	135.3	136.9	164.9	202.3	220.9	254.8	322.6
127.5°	143.4	136.7	130.1	136.7	143.4	145.0	169.3	201.7	217.9	246.9	305.2
130°	148.7	141.6	134.4	141.6	148.7	150.5	172.6	202.0	216.7	242.6	294.4
132.5°	153.2	146.1	138.9	146.1	153.2	155.0	175.2	202.3	215.8	238.9	285.3
135°	158.5	152.0	145.5	152.0	158.5	160.1	178.1	202.1	214.0	233.5	272.3
137.5°	165.1	158.7	152.3	158.7	165.1	166.7	182.4	203.3	213.8	230.2	263.0
140°	169.7	163.8	157.8	163.8	169.7	171.2	185.1	203.5	212.7	226.9	255.3
142.5°	173.1	167.6	162.1	167.6	173.1	174.5	187.2	204.2	212.7	225.1	250.1
145°	178.3	173.5	168.7	173.5	178.3	179.5	190.1	204.2	211.3	221.4	241.8
147.5°	184.7	180.0	175.3	180.0	184.7	185.8	194.4	205.6	211.3	219.3	235.3
150°	188.1	183.8	179.6	183.8	188.1	189.2	196.6	206.4	211.3	218.1	231.5
152.5°	190.5	187.3	184.1	187.3	190.5	191.3	198.0	206.9	211.3	217.0	228.6
155°	195.5	193.1	190.7	193.1	195.5	196.1	201.1	207.9	211.3	215.9	225.0
157.5°	200.2	197.9	195.6	197.9	200.2	200.8	204.3	209.0	211.3	214.8	222.0
160°	202.5	200.8	198.9	200.8	202.5	203.0	205.7	209.5	211.3	214.3	220.5
162.5°	204.9	203.5	202.2	203.5	204.9	205.3	207.3	209.9	211.3	213.9	219.0
165°	208.2	207.0	205.8	207.0	208.2	208.5	209.5	210.7	211.3	213.1	216.8
167.5°	210.2	209.7	209.1	209.7	210.2	210.4	211.2	212.2	212.7	214.0	216.3
170°	212.4	211.8	211.3	211.8	212.4	212.5	212.6	212.7	212.7	214.0	216.3
172.5°	212.7	212.5	212.4	212.5	212.7	212.7	212.7	212.7	212.7	213.7	215.6
175°	214.0	214.0	214.0	214.0	214.0	214.0	213.6	213.0	212.7	213.3	214.5
177.5°	214.0	214.0	214.0	214.0	214.0	214.0	213.7	213.2	213.0	213.5	214.4
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



TEST NUMBER: P933811

CATALOG NUMBER: SQ4-FA-025U-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°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.3	9.7	10.9	9.4
92.5°	27.2	26.2	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.5	54.0
95°	92.6	89.4	76.2	63.1	76.2	89.4	92.6	121.6	160.3	179.6	151.7
97.5°	213.9	207.6	182.6	157.5	182.6	207.6	213.9	232.2	256.6	268.8	222.3
100°	300.3	292.8	263.1	233.3	263.1	292.8	300.3	298.9	297.1	296.3	244.6
102.5°	374.2	367.8	342.2	316.7	342.2	367.8	374.2	350.8	319.6	304.0	251.6
105°	460.3	456.9	443.2	429.4	443.2	456.9	460.3	407.9	338.0	303.1	252.4
107.5°	505.2	506.0	509.3	512.6	509.3	506.0	505.2	432.1	334.7	285.9	241.2
110°	516.6	520.2	534.5	548.8	534.5	520.2	516.6	435.0	326.1	271.6	231.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	509.3	514.7	536.7	558.7	536.7	514.7	509.3	425.7	314.2	258.5	222.6
115°	484.4	492.1	522.5	553.0	522.5	492.1	484.4	403.9	296.6	242.8	212.5
117.5°	450.1	458.5	492.3	526.1	492.3	458.5	450.1	377.4	280.6	232.1	206.3
120°	427.0	435.3	468.1	500.8	468.1	435.3	427.0	360.6	272.1	227.8	204.3
122.5°	403.9	412.0	444.3	476.7	444.3	412.0	403.9	344.1	264.3	224.5	203.2
125°	373.3	380.8	410.5	440.3	410.5	380.8	373.3	322.6	254.8	220.9	202.3
127.5°	348.7	355.1	380.2	405.3	380.2	355.1	348.7	305.2	246.9	217.9	201.7
130°	333.2	339.0	362.2	385.5	362.2	339.0	333.2	294.4	242.6	216.7	202.0
132.5°	320.0	325.1	346.0	366.8	346.0	325.1	320.0	285.3	238.9	215.8	202.3
135°	301.3	305.8	323.7	341.7	323.7	305.8	301.3	272.3	233.5	214.0	202.1
137.5°	287.6	291.2	305.9	320.5	305.9	291.2	287.6	263.0	230.2	213.8	203.3
140°	276.5	279.9	293.6	307.4	293.6	279.9	276.5	255.3	226.9	212.7	203.5
142.5°	268.7	271.7	283.5	295.3	283.5	271.7	268.7	250.1	225.1	212.7	204.2
145°	257.1	259.3	268.3	277.2	268.3	259.3	257.1	241.8	221.4	211.3	204.2
147.5°	247.3	249.1	256.6	264.0	256.6	249.1	247.3	235.3	219.3	211.3	205.6
150°	241.7	243.2	249.2	255.3	249.2	243.2	241.7	231.5	218.1	211.3	206.4
152.5°	237.3	238.4	242.9	247.5	242.9	238.4	237.3	228.6	217.0	211.3	206.9
155°	231.9	232.7	235.7	238.7	235.7	232.7	231.9	225.0	215.9	211.3	207.9
157.5°	227.3	227.9	230.0	232.1	230.0	227.9	227.3	222.0	214.8	211.3	209.0
160°	225.0	225.3	226.6	227.8	226.6	225.3	225.0	220.5	214.3	211.3	209.5
162.5°	222.9	223.2	224.4	225.5	224.4	223.2	222.9	219.0	213.9	211.3	209.9
165°	219.6	219.9	221.1	222.4	221.1	219.9	219.6	216.8	213.1	211.3	210.7
167.5°	218.2	218.3	218.8	219.3	218.8	218.3	218.2	216.3	214.0	212.7	212.2
170°	218.2	218.2	218.2	218.2	218.2	218.2	218.2	216.3	214.0	212.7	212.7
172.5°	217.0	216.9	216.4	216.1	216.4	216.9	217.0	215.6	213.7	212.7	212.7
175°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	214.5	213.3	212.7	213.0
177.5°	215.2	215.1	214.5	214.0	214.5	215.1	215.2	214.4	213.5	213.0	213.2
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



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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°	6.3	4.0	3.7	2.6	1.4
92.5°	39.0	27.7	25.2	15.5	5.7
95°	95.9	54.0	49.5	31.6	13.8
97.5°	129.2	59.3	55.4	39.6	23.8
100°	141.3	63.8	60.2	45.9	31.6
102.5°	146.8	68.3	64.9	51.6	38.2
105°	151.0	74.9	72.0	60.7	49.4
107.5°	151.7	84.6	81.9	71.4	60.9
110°	150.6	90.1	87.7	78.2	68.6



TEST NUMBER: P933811

CATALOG NUMBER: SQ4-FA-025U-050D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	150.6	96.7	94.4	85.4	76.3
115°	152.0	106.6	104.5	96.2	87.8
117.5°	154.8	116.2	114.2	106.7	99.1
120°	157.2	121.8	120.0	112.9	105.7
122.5°	160.4	128.4	126.6	119.4	112.1
125°	164.9	136.9	135.3	128.7	122.1
127.5°	169.3	145.0	143.4	136.7	130.1
130°	172.6	150.5	148.7	141.6	134.4
132.5°	175.2	155.0	153.2	146.1	138.9
135°	178.1	160.1	158.5	152.0	145.5
137.5°	182.4	166.7	165.1	158.7	152.3
140°	185.1	171.2	169.7	163.8	157.8
142.5°	187.2	174.5	173.1	167.6	162.1
145°	190.1	179.5	178.3	173.5	168.7
147.5°	194.4	185.8	184.7	180.0	175.3
150°	196.6	189.2	188.1	183.8	179.6
152.5°	198.0	191.3	190.5	187.3	184.1
155°	201.1	196.1	195.5	193.1	190.7
157.5°	204.3	200.8	200.2	197.9	195.6
160°	205.7	203.0	202.5	200.8	198.9
162.5°	207.3	205.3	204.9	203.5	202.2
165°	209.5	208.5	208.2	207.0	205.8
167.5°	211.2	210.4	210.2	209.7	209.1
170°	212.6	212.5	212.4	211.8	211.3
172.5°	212.7	212.7	212.7	212.5	212.4
175°	213.6	214.0	214.0	214.0	214.0
177.5°	213.7	214.0	214.0	214.0	214.0
180°	214.0	214.0	214.0	214.0	214.0



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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	12.51	13.53	13.32	14.37	15.40	15.34	16.36	16.15	17.19	18.22
	3H	13.00	13.92	13.83	14.76	15.82	16.69	17.61	17.52	18.45	19.51
	4H	13.20	14.06	14.04	14.92	15.99	17.14	18.01	17.98	18.86	19.93
	6H	13.33	14.12	14.18	14.98	16.07	17.43	18.23	18.29	19.09	20.17
	8H	13.33	14.09	14.20	14.97	16.05	17.51	18.27	18.38	19.15	20.23
	12H	13.31	14.03	14.18	14.90	16.01	17.56	18.28	18.42	19.15	20.26
4H	2H	13.56	14.43	14.41	15.28	16.35	15.77	16.63	16.61	17.48	18.55
	3H	14.60	15.33	15.46	16.21	17.29	17.28	18.00	18.14	18.89	19.97
	4H	14.89	15.54	15.76	16.42	17.54	17.82	18.47	18.69	19.36	20.47
	6H	15.02	15.59	15.91	16.49	17.61	18.19	18.76	19.08	19.66	20.78
	8H	15.03	15.56	15.92	16.46	17.59	18.30	18.83	19.19	19.73	20.86
	12H	15.01	15.48	15.91	16.40	17.54	18.36	18.84	19.27	19.76	20.89
8H	4H	15.35	15.88	16.24	16.78	17.91	17.96	18.48	18.84	19.38	20.51
	6H	15.62	16.06	16.54	17.00	18.13	18.40	18.84	19.31	19.78	20.91
	8H	15.67	16.05	16.59	16.99	18.13	18.55	18.94	19.48	19.87	21.02
	12H	15.66	16.00	16.59	16.92	18.12	18.65	19.00	19.58	19.92	21.12
12H	4H	15.37	15.84	16.28	16.76	17.90	17.93	18.40	18.84	19.32	20.46
	6H	15.68	16.07	16.61	17.01	18.15	18.40	18.78	19.32	19.72	20.86
	8H	15.76	16.10	16.69	17.03	18.22	18.56	18.91	19.49	19.83	21.03