

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: P933824

Luminaire Tested: SQ4-FA-025U-050D-927-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

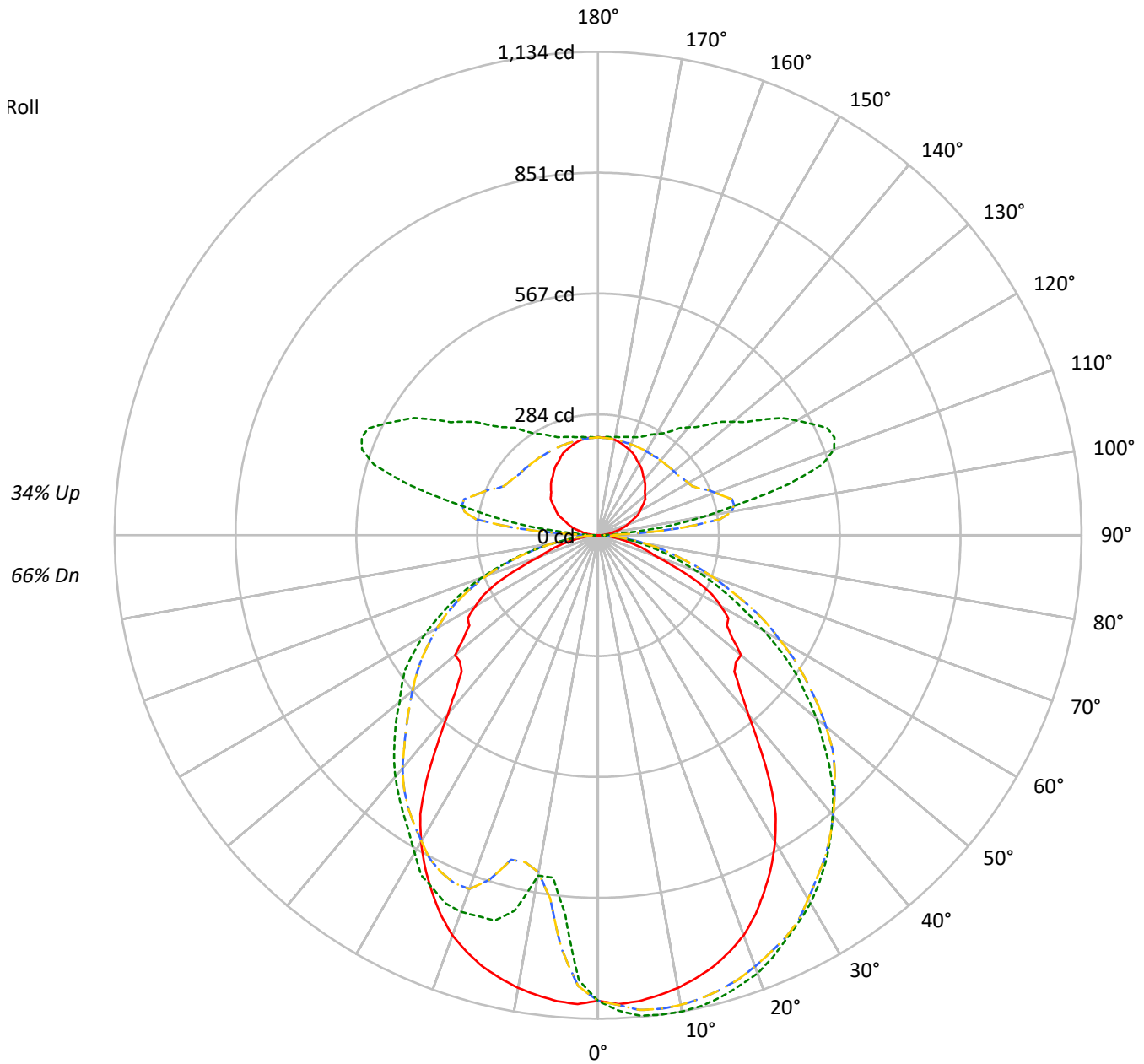
Test Method: LM-79-2019  
Report Number: P933824  
REPORT IS A COMBINATION OF REPORTS P933676 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-927-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4321.3 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    ··· 90°-270°    - · 135°-315°



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

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	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°	5065	5065	5065	5065
5°	5103	5113	5103	4020
10°	5068	5037	5068	3600
15°	5014	4927	5014	4114
20°	4909	4798	4909	4123
25°	4694	4609	4694	4036
30°	4417	4453	4417	3844
35°	3937	4255	3937	3633
40°	3281	4022	3281	3474
45°	2932	3749	2932	3290
50°	3114	3424	3114	3107
55°	2930	3073	2930	3000
60°	3021	2610	3021	2748
65°	2738	2158	2738	2412
70°	1896	1720	1896	2021
75°	1663	1271	1663	1522
80°	1340	840	1340	915
85°	773	445	773	378

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4493 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	2.3
10°-20°	279.8	6.5
20°-30°	432.5	10.0
30°-40°	516.3	11.9
40°-50°	519.3	12.0
50°-60°	451.9	10.5
60°-70°	320.4	7.4
70°-80°	169.5	3.9
80°-90°	43.1	1.0
90°-100°	112.0	2.6
100°-110°	294.5	6.8
110°-120°	305.4	7.1
120°-130°	245.0	5.7
130°-140°	192.2	4.4
140°-150°	147.5	3.4
150°-160°	106.2	2.5
160°-170°	65.0	1.5
170°-180°	22.0	0.5
0°-30°	810.8	18.8
0°-40°	1327.2	30.7
0°-60°	2298.4	53.2
0°-90°	2831.4	65.5
90°-120°	711.9	16.5
90°-150°	1296.7	30.0
90°-180°	1490.0	34.5
0°-180°	4321.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1092	1092	1092	1092	1092	
5°	1097	1131	1097	889	1097	104
15°	1047	1121	1047	936	1047	295
25°	922	1045	922	915	922	423
35°	701	933	701	796	701	434
45°	452	768	452	674	452	362
55°	369	567	369	554	369	339
65°	256	342	256	382	256	245
75°	97	162	97	194	97	102
85°	17	41	17	35	17	22
90°	2	6	2	6	2	2
95°	15	68	15	68	15	16
105°	53	461	53	461	53	56
115°	94	594	94	594	94	93
125°	131	473	131	473	131	116
135°	156	367	156	367	156	121
145°	181	298	181	298	181	114
155°	205	256	205	256	205	94
165°	221	239	221	239	221	62
175°	230	231	230	231	230	22
180°	230	230	230	230	230	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1100.9	1100.9	1107.2	1109.3	1109.3	1106.1	1103.0	1106.1	1115.4	1118.5	1117.5
5°	1096.9	1105.1	1116.5	1118.5	1120.6	1119.6	1117.5	1119.6	1129.9	1132.0	1133.0
7.5°	1088.5	1104.1	1118.5	1121.7	1124.7	1121.7	1120.6	1122.7	1133.0	1135.1	1135.1
10°	1078.2	1099.9	1116.5	1118.5	1121.7	1118.5	1118.5	1122.7	1133.0	1135.1	1136.1
12.5°	1063.8	1093.7	1109.3	1111.3	1115.4	1114.4	1113.3	1117.5	1127.8	1129.9	1129.9
15°	1047.3	1082.4	1096.9	1098.9	1106.1	1104.1	1104.1	1108.2	1119.6	1122.7	1121.7
17.5°	1024.6	1067.9	1084.5	1087.5	1092.7	1091.7	1092.7	1096.9	1107.2	1109.3	1110.3
20°	998.7	1048.3	1067.9	1071.0	1076.2	1076.2	1076.2	1081.3	1091.7	1095.8	1095.8
22.5°	963.6	1027.6	1048.3	1050.4	1056.6	1056.6	1058.6	1065.8	1075.2	1076.2	1076.2
25°	922.3	1004.9	1022.5	1028.6	1034.9	1038.0	1041.0	1045.2	1048.3	1047.3	1048.3
27.5°	879.0	976.0	998.7	1002.8	1011.1	1014.2	1018.3	1019.4	1020.4	1023.5	1021.5
30°	830.4	935.7	969.8	974.0	987.4	989.4	985.3	987.4	992.5	994.6	996.7
32.5°	775.6	875.8	939.9	949.2	961.6	955.3	954.3	957.4	965.7	965.7	967.7
35°	701.2	829.4	912.0	920.2	929.5	922.3	926.5	927.5	932.6	935.7	934.7
37.5°	619.7	789.1	883.0	889.3	896.5	887.2	893.4	896.5	900.6	898.5	898.5
40°	547.4	726.0	849.0	853.1	859.3	852.1	858.2	860.3	862.4	860.3	859.3
42.5°	493.6	656.9	812.8	818.0	813.8	819.0	821.1	825.2	822.1	818.0	818.0
45°	452.4	638.3	773.5	779.8	773.5	781.9	784.9	784.9	775.6	773.5	772.5
47.5°	439.0	601.1	734.3	734.3	731.2	741.6	746.7	739.5	730.2	727.1	727.1
50°	437.9	559.8	680.6	676.5	690.9	703.3	698.2	690.9	683.7	672.4	672.4
52.5°	397.6	509.2	611.5	626.9	649.6	656.9	648.6	641.4	629.0	623.8	619.7
55°	368.7	456.5	548.4	579.4	603.1	612.5	597.0	589.7	571.1	568.0	566.0
57.5°	362.5	380.1	490.6	529.8	558.7	557.7	548.4	535.0	519.5	516.4	515.4
60°	332.6	274.7	428.6	475.1	505.0	502.0	493.6	481.2	466.9	464.8	462.7
62.5°	301.6	199.4	358.4	411.0	453.4	452.4	445.1	426.6	416.2	411.0	406.9
65°	256.1	167.3	255.1	341.9	402.8	404.9	389.4	375.9	364.6	358.4	357.4
67.5°	195.2	136.4	172.5	285.1	354.3	352.2	332.6	326.4	311.9	308.8	302.6
70°	144.6	90.9	119.8	231.4	306.8	301.6	286.1	278.9	265.4	258.2	254.1
72.5°	119.8	73.3	87.8	179.7	258.2	252.0	238.5	230.3	219.0	212.8	208.6
75°	97.1	77.5	67.1	133.2	209.7	205.5	193.1	184.9	175.6	167.3	168.3
77.5°	71.3	72.3	53.7	98.1	166.3	160.1	152.8	142.5	138.4	130.1	130.1
80°	53.7	56.8	40.3	67.1	119.8	119.8	113.6	106.4	99.2	95.0	95.0
82.5°	36.1	36.1	30.0	42.4	81.6	78.5	74.4	72.3	68.1	66.1	66.1
85°	16.6	20.6	18.6	25.8	44.4	46.5	46.5	44.4	43.4	41.3	42.4
87.5°	5.2	9.3	11.4	14.5	22.7	23.8	24.8	24.8	24.8	25.8	25.8
90°	1.5	2.8	4.0	4.3	6.8	10.1	11.7	10.4	7.8	5.9	5.9
92.5°	6.2	16.6	27.2	29.8	41.9	58.0	66.0	57.8	41.6	29.3	28.2
95°	14.8	34.0	53.2	58.0	102.9	162.9	193.0	172.2	130.7	99.5	95.9
97.5°	25.6	42.6	59.4	63.7	138.7	238.7	288.8	275.7	249.4	229.7	223.0
100°	34.0	49.3	64.6	68.5	151.7	262.6	318.2	319.2	321.1	322.6	314.5
102.5°	41.0	55.4	69.7	73.2	157.7	270.3	326.6	343.3	376.7	401.8	394.9
105°	53.1	65.2	77.4	80.4	162.2	271.1	325.6	363.1	438.1	494.3	490.6
107.5°	65.4	76.7	88.0	90.9	162.9	259.0	307.1	359.4	464.0	542.5	543.4
110°	73.8	83.9	94.2	96.7	161.7	248.3	291.7	350.1	467.1	554.8	558.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	81.9	91.6	101.3	103.8	161.8	239.0	277.7	337.5	457.1	546.9	552.9
115°	94.2	103.2	112.2	114.4	163.2	228.3	260.8	318.5	433.8	520.3	528.5
117.5°	106.4	114.6	122.7	124.8	166.3	221.6	249.2	301.3	405.3	483.4	492.5
120°	113.5	121.2	128.9	130.8	168.8	219.4	244.6	292.1	387.2	458.5	467.3
122.5°	120.4	128.2	136.0	137.9	172.3	218.1	241.1	283.9	369.5	433.7	442.4
125°	131.1	138.2	145.2	147.0	177.1	217.2	237.2	273.6	346.3	400.9	408.9
127.5°	139.8	146.8	154.0	155.8	181.9	216.6	234.0	265.3	327.7	374.5	381.3
130°	144.4	152.1	159.7	161.6	185.3	217.0	232.8	260.6	316.2	357.8	364.1
132.5°	149.1	156.8	164.5	166.4	188.2	217.2	231.7	256.6	306.3	343.7	349.3
135°	156.2	163.2	170.2	172.0	191.3	217.0	229.8	250.7	292.4	323.6	328.4
137.5°	163.5	170.4	177.3	179.1	195.9	218.3	229.5	247.2	282.4	308.8	312.7
140°	169.5	175.9	182.3	183.9	198.7	218.5	228.5	243.7	274.1	296.9	300.6
142.5°	174.2	180.0	186.0	187.4	201.1	219.4	228.5	241.9	268.6	288.6	291.8
145°	181.3	186.4	191.5	192.8	204.2	219.4	226.9	237.9	259.7	276.1	278.5
147.5°	188.3	193.3	198.4	199.6	208.7	220.8	226.9	235.5	252.7	265.6	267.6
150°	193.0	197.5	202.0	203.1	211.1	221.6	226.9	234.2	248.7	259.6	261.2
152.5°	197.7	201.1	204.6	205.4	212.6	222.1	226.9	233.1	245.5	254.8	256.0
155°	204.8	207.4	209.9	210.5	216.0	223.3	226.9	231.8	241.7	249.1	249.9
157.5°	210.1	212.5	215.0	215.6	219.4	224.4	226.9	230.8	238.4	244.2	244.7
160°	213.6	215.5	217.4	217.9	220.9	224.9	226.9	230.2	236.8	241.7	242.0
162.5°	217.1	218.6	220.0	220.4	222.5	225.5	226.9	229.7	235.2	239.4	239.7
165°	221.1	222.4	223.7	224.0	225.0	226.3	226.9	228.9	232.8	235.9	236.2
167.5°	224.6	225.2	225.8	226.0	226.8	227.9	228.5	229.8	232.4	234.3	234.5
170°	226.9	227.5	228.2	228.3	228.4	228.5	228.5	229.8	232.4	234.3	234.3
172.5°	228.2	228.3	228.5	228.5	228.5	228.5	228.5	229.5	231.5	233.1	232.9
175°	229.8	229.8	229.8	229.8	229.4	228.8	228.5	229.1	230.4	231.4	231.4
177.5°	229.8	229.8	229.8	229.8	229.5	229.0	228.8	229.3	230.3	231.1	230.9
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1119.6	1116.5	1119.6	1117.5	1118.5	1115.4	1106.1	1103.0	1106.1	1109.3	1109.3
5°	1133.0	1130.9	1133.0	1133.0	1132.0	1129.9	1119.6	1117.5	1119.6	1120.6	1118.5
7.5°	1137.1	1134.1	1137.1	1135.1	1135.1	1133.0	1122.7	1120.6	1121.7	1124.7	1121.7
10°	1137.1	1134.1	1137.1	1136.1	1135.1	1133.0	1122.7	1118.5	1118.5	1121.7	1118.5
12.5°	1132.0	1129.9	1132.0	1129.9	1129.9	1127.8	1117.5	1113.3	1114.4	1115.4	1111.3
15°	1123.7	1120.6	1123.7	1121.7	1122.7	1119.6	1108.2	1104.1	1104.1	1106.1	1098.9
17.5°	1111.3	1107.2	1111.3	1110.3	1109.3	1107.2	1096.9	1092.7	1091.7	1092.7	1087.5
20°	1096.9	1093.7	1096.9	1095.8	1095.8	1091.7	1081.3	1076.2	1076.2	1076.2	1071.0
22.5°	1074.2	1071.0	1074.2	1076.2	1076.2	1075.2	1065.8	1058.6	1056.6	1056.6	1050.4
25°	1048.3	1045.2	1048.3	1048.3	1047.3	1048.3	1045.2	1041.0	1038.0	1034.9	1028.6
27.5°	1023.5	1021.5	1023.5	1021.5	1023.5	1020.4	1019.4	1018.3	1014.2	1011.1	1002.8
30°	998.7	996.7	998.7	996.7	994.6	992.5	987.4	985.3	989.4	987.4	974.0
32.5°	967.7	965.7	967.7	967.7	965.7	965.7	957.4	954.3	955.3	961.6	949.2
35°	935.7	932.6	935.7	934.7	935.7	932.6	927.5	926.5	922.3	929.5	920.2
37.5°	898.5	895.4	898.5	898.5	898.5	900.6	896.5	893.4	887.2	896.5	889.3
40°	860.3	856.2	860.3	859.3	860.3	862.4	860.3	858.2	852.1	859.3	853.1
42.5°	817.0	815.9	817.0	818.0	818.0	822.1	825.2	821.1	819.0	813.8	818.0
45°	770.5	768.4	770.5	772.5	773.5	775.6	784.9	784.9	781.9	773.5	779.8
47.5°	720.9	715.7	720.9	727.1	727.1	730.2	739.5	746.7	741.6	731.2	734.3
50°	668.2	669.3	668.2	672.4	672.4	683.7	690.9	698.2	703.3	690.9	676.5
52.5°	616.6	615.5	616.6	619.7	623.8	629.0	641.4	648.6	656.9	649.6	626.9
55°	564.9	567.0	564.9	566.0	568.0	571.1	589.7	597.0	612.5	603.1	579.4
57.5°	513.3	510.2	513.3	515.4	516.4	519.5	535.0	548.4	557.7	558.7	529.8
60°	453.4	449.3	453.4	462.7	464.8	466.9	481.2	493.6	502.0	505.0	475.1
62.5°	400.7	393.5	400.7	406.9	411.0	416.2	426.6	445.1	452.4	453.4	411.0
65°	345.0	341.9	345.0	357.4	358.4	364.6	375.9	389.4	404.9	402.8	341.9
67.5°	294.4	294.4	294.4	302.6	308.8	311.9	326.4	332.6	352.2	354.3	285.1
70°	247.9	246.9	247.9	254.1	258.2	265.4	278.9	286.1	301.6	306.8	231.4
72.5°	203.4	202.4	203.4	208.6	212.8	219.0	230.3	238.5	252.0	258.2	179.7
75°	164.2	162.2	164.2	168.3	167.3	175.6	184.9	193.1	205.5	209.7	133.2
77.5°	126.0	126.0	126.0	130.1	130.1	138.4	142.5	152.8	160.1	166.3	98.1
80°	94.0	92.9	94.0	95.0	95.0	99.2	106.4	113.6	119.8	119.8	67.1
82.5°	66.1	64.1	66.1	66.1	66.1	68.1	72.3	74.4	78.5	81.6	42.4
85°	41.3	41.3	41.3	42.4	41.3	43.4	44.4	46.5	46.5	44.4	25.8
87.5°	26.9	25.8	26.9	25.8	25.8	24.8	24.8	24.8	23.8	22.7	14.5
90°	5.9	5.9	5.9	5.9	5.9	7.8	10.4	11.7	10.1	6.8	4.3
92.5°	23.5	18.8	23.5	28.2	29.3	41.6	57.8	66.0	58.0	41.9	29.8
95°	81.9	67.7	81.9	95.9	99.5	130.7	172.2	193.0	162.9	102.9	58.0
97.5°	196.0	169.2	196.0	223.0	229.7	249.4	275.7	288.8	238.7	138.7	63.7
100°	282.5	250.5	282.5	314.5	322.6	321.1	319.2	318.2	262.6	151.7	68.5
102.5°	367.5	340.1	367.5	394.9	401.8	376.7	343.3	326.6	270.3	157.7	73.2
105°	475.9	461.2	475.9	490.6	494.3	438.1	363.1	325.6	271.1	162.2	80.4
107.5°	546.9	550.5	546.9	543.4	542.5	464.0	359.4	307.1	259.0	162.9	90.9
110°	574.0	589.4	574.0	558.6	554.8	467.1	350.1	291.7	248.3	161.7	96.7





TEST NUMBER: P933824

CATALOG NUMBER: SQ4-FA-025U-050D-927-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	576.4	600.0	576.4	552.9	546.9	457.1	337.5	277.7	239.0	161.8	103.8
115°	561.2	593.8	561.2	528.5	520.3	433.8	318.5	260.8	228.3	163.2	114.4
117.5°	528.8	565.0	528.8	492.5	483.4	405.3	301.3	249.2	221.6	166.3	124.8
120°	502.6	537.8	502.6	467.3	458.5	387.2	292.1	244.6	219.4	168.8	130.8
122.5°	477.2	511.9	477.2	442.4	433.7	369.5	283.9	241.1	218.1	172.3	137.9
125°	440.9	472.9	440.9	408.9	400.9	346.3	273.6	237.2	217.2	177.1	147.0
127.5°	408.3	435.3	408.3	381.3	374.5	327.7	265.3	234.0	216.6	181.9	155.8
130°	389.0	414.0	389.0	364.1	357.8	316.2	260.6	232.8	217.0	185.3	161.6
132.5°	371.6	393.9	371.6	349.3	343.7	306.3	256.6	231.7	217.2	188.2	166.4
135°	347.7	366.9	347.7	328.4	323.6	292.4	250.7	229.8	217.0	191.3	172.0
137.5°	328.5	344.3	328.5	312.7	308.8	282.4	247.2	229.5	218.3	195.9	179.1
140°	315.3	330.1	315.3	300.6	296.9	274.1	243.7	228.5	218.5	198.7	183.9
142.5°	304.5	317.1	304.5	291.8	288.6	268.6	241.9	228.5	219.4	201.1	187.4
145°	288.1	297.7	288.1	278.5	276.1	259.7	237.9	226.9	219.4	204.2	192.8
147.5°	275.5	283.5	275.5	267.6	265.6	252.7	235.5	226.9	220.8	208.7	199.6
150°	267.7	274.1	267.7	261.2	259.6	248.7	234.2	226.9	221.6	211.1	203.1
152.5°	260.9	265.7	260.9	256.0	254.8	245.5	233.1	226.9	222.1	212.6	205.4
155°	253.1	256.3	253.1	249.9	249.1	241.7	231.8	226.9	223.3	216.0	210.5
157.5°	247.0	249.2	247.0	244.7	244.2	238.4	230.8	226.9	224.4	219.4	215.6
160°	243.3	244.6	243.3	242.0	241.7	236.8	230.2	226.9	224.9	220.9	217.9
162.5°	240.9	242.2	240.9	239.7	239.4	235.2	229.7	226.9	225.5	222.5	220.4
165°	237.5	238.8	237.5	236.2	235.9	232.8	228.9	226.9	226.3	225.0	224.0
167.5°	235.0	235.5	235.0	234.5	234.3	232.4	229.8	228.5	227.9	226.8	226.0
170°	234.3	234.3	234.3	234.3	234.3	232.4	229.8	228.5	228.5	228.4	228.3
172.5°	232.5	232.0	232.5	232.9	233.1	231.5	229.5	228.5	228.5	228.5	228.5
175°	231.4	231.4	231.4	231.4	231.4	230.4	229.1	228.5	228.8	229.4	229.8
177.5°	230.4	229.8	230.4	230.9	231.1	230.3	229.3	228.8	229.0	229.5	229.8
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P933824

CATALOG NUMBER: SQ4-FA-025U-050D-927-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1107.2	1100.9	1100.9	1090.6	1086.5	1083.4	1078.2	1062.8	1058.6	1054.5	1060.7
5°	1116.5	1105.1	1096.9	1078.2	1062.8	1056.6	1037.0	999.8	975.0	956.3	946.0
7.5°	1118.5	1104.1	1088.5	1059.7	1022.5	1005.9	946.0	877.9	859.3	842.8	832.4
10°	1116.5	1099.9	1078.2	1034.9	947.1	918.1	858.2	813.8	802.5	799.4	802.5
12.5°	1109.3	1093.7	1063.8	991.5	868.6	849.0	813.8	788.0	785.9	791.1	819.0
15°	1096.9	1082.4	1047.3	933.6	825.2	810.7	785.9	776.7	788.0	824.2	907.8
17.5°	1084.5	1067.9	1024.6	876.9	792.2	781.9	764.3	782.9	846.9	895.4	923.3
20°	1067.9	1048.3	998.7	835.5	768.4	759.1	750.8	834.5	883.0	900.6	916.1
22.5°	1048.3	1027.6	963.6	806.7	743.6	736.4	741.6	863.4	883.0	895.4	908.8
25°	1022.5	1004.9	922.3	783.9	724.0	715.7	735.4	860.3	871.7	874.8	901.7
27.5°	998.7	976.0	879.0	763.2	700.2	697.2	740.5	846.9	855.2	858.2	887.2
30°	969.8	935.7	830.4	741.6	675.4	674.4	741.6	830.4	828.3	836.6	865.5
32.5°	939.9	875.8	775.6	714.7	651.7	650.6	734.3	805.6	803.5	814.9	836.6
35°	912.0	829.4	701.2	683.7	621.8	622.8	716.8	776.7	777.7	788.0	801.5
37.5°	883.0	789.1	619.7	649.6	592.8	592.8	693.0	749.8	747.7	750.8	769.5
40°	849.0	726.0	547.4	605.2	566.0	562.9	664.1	720.9	713.6	712.6	738.4
42.5°	812.8	656.9	493.6	546.4	535.0	530.8	629.0	685.8	672.4	675.4	708.5
45°	773.5	638.3	452.4	461.7	503.0	499.9	590.7	645.5	636.2	644.5	678.5
47.5°	734.3	601.1	439.0	383.2	468.9	467.9	548.4	606.2	601.1	609.4	645.5
50°	680.6	559.8	437.9	328.4	430.7	434.8	497.8	568.0	568.0	575.3	613.5
52.5°	611.5	509.2	397.6	297.5	386.2	398.6	453.4	535.0	537.1	544.3	578.3
55°	548.4	456.5	368.7	273.7	333.6	360.4	410.0	500.9	505.0	512.3	543.2
57.5°	490.6	380.1	362.5	245.8	285.1	310.8	371.8	467.9	469.9	476.1	506.0
60°	428.6	274.7	332.6	215.8	242.7	262.3	336.7	428.6	435.8	440.0	465.8
62.5°	358.4	199.4	301.6	195.2	222.1	226.1	307.8	391.5	400.7	403.9	419.3
65°	255.1	167.3	256.1	177.6	200.4	201.4	276.8	353.2	361.5	366.7	378.0
67.5°	172.5	136.4	195.2	161.1	183.9	184.9	246.9	308.8	320.2	324.3	331.6
70°	119.8	90.9	144.6	143.5	165.2	167.3	214.8	268.5	278.9	282.0	286.1
72.5°	87.8	73.3	119.8	129.1	145.6	147.7	181.8	223.1	233.4	236.5	238.5
75°	67.1	77.5	97.1	112.6	124.0	125.0	148.7	181.8	189.0	191.0	192.1
77.5°	53.7	72.3	71.3	90.9	101.2	99.2	116.7	140.4	146.7	146.7	146.7
80°	40.3	56.8	53.7	65.1	74.4	72.3	83.6	100.2	102.3	104.3	103.3
82.5°	30.0	36.1	36.1	41.3	49.6	47.5	55.7	65.1	65.1	65.1	67.1
85°	18.6	20.6	16.6	21.7	27.9	26.9	31.0	35.1	36.1	36.1	34.1
87.5°	11.4	9.3	5.2	8.2	12.4	12.4	14.5	15.5	14.5	14.5	14.5
90°	4.0	2.8	1.5	2.8	4.0	4.3	6.8	10.1	11.7	10.4	7.8
92.5°	27.2	16.6	6.2	16.6	27.2	29.8	41.9	58.0	66.0	57.8	41.6
95°	53.2	34.0	14.8	34.0	53.2	58.0	102.9	162.9	193.0	172.2	130.7
97.5°	59.4	42.6	25.6	42.6	59.4	63.7	138.7	238.7	288.8	275.7	249.4
100°	64.6	49.3	34.0	49.3	64.6	68.5	151.7	262.6	318.2	319.2	321.1
102.5°	69.7	55.4	41.0	55.4	69.7	73.2	157.7	270.3	326.6	343.3	376.7
105°	77.4	65.2	53.1	65.2	77.4	80.4	162.2	271.1	325.6	363.1	438.1
107.5°	88.0	76.7	65.4	76.7	88.0	90.9	162.9	259.0	307.1	359.4	464.0
110°	94.2	83.9	73.8	83.9	94.2	96.7	161.7	248.3	291.7	350.1	467.1



TEST NUMBER: P933824

CATALOG NUMBER: SQ4-FA-025U-050D-927-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	101.3	91.6	81.9	91.6	101.3	103.8	161.8	239.0	277.7	337.5	457.1
115°	112.2	103.2	94.2	103.2	112.2	114.4	163.2	228.3	260.8	318.5	433.8
117.5°	122.7	114.6	106.4	114.6	122.7	124.8	166.3	221.6	249.2	301.3	405.3
120°	128.9	121.2	113.5	121.2	128.9	130.8	168.8	219.4	244.6	292.1	387.2
122.5°	136.0	128.2	120.4	128.2	136.0	137.9	172.3	218.1	241.1	283.9	369.5
125°	145.2	138.2	131.1	138.2	145.2	147.0	177.1	217.2	237.2	273.6	346.3
127.5°	154.0	146.8	139.8	146.8	154.0	155.8	181.9	216.6	234.0	265.3	327.7
130°	159.7	152.1	144.4	152.1	159.7	161.6	185.3	217.0	232.8	260.6	316.2
132.5°	164.5	156.8	149.1	156.8	164.5	166.4	188.2	217.2	231.7	256.6	306.3
135°	170.2	163.2	156.2	163.2	170.2	172.0	191.3	217.0	229.8	250.7	292.4
137.5°	177.3	170.4	163.5	170.4	177.3	179.1	195.9	218.3	229.5	247.2	282.4
140°	182.3	175.9	169.5	175.9	182.3	183.9	198.7	218.5	228.5	243.7	274.1
142.5°	186.0	180.0	174.2	180.0	186.0	187.4	201.1	219.4	228.5	241.9	268.6
145°	191.5	186.4	181.3	186.4	191.5	192.8	204.2	219.4	226.9	237.9	259.7
147.5°	198.4	193.3	188.3	193.3	198.4	199.6	208.7	220.8	226.9	235.5	252.7
150°	202.0	197.5	193.0	197.5	202.0	203.1	211.1	221.6	226.9	234.2	248.7
152.5°	204.6	201.1	197.7	201.1	204.6	205.4	212.6	222.1	226.9	233.1	245.5
155°	209.9	207.4	204.8	207.4	209.9	210.5	216.0	223.3	226.9	231.8	241.7
157.5°	215.0	212.5	210.1	212.5	215.0	215.6	219.4	224.4	226.9	230.8	238.4
160°	217.4	215.5	213.6	215.5	217.4	217.9	220.9	224.9	226.9	230.2	236.8
162.5°	220.0	218.6	217.1	218.6	220.0	220.4	222.5	225.5	226.9	229.7	235.2
165°	223.7	222.4	221.1	222.4	223.7	224.0	225.0	226.3	226.9	228.9	232.8
167.5°	225.8	225.2	224.6	225.2	225.8	226.0	226.8	227.9	228.5	229.8	232.4
170°	228.2	227.5	226.9	227.5	228.2	228.3	228.4	228.5	228.5	229.8	232.4
172.5°	228.5	228.3	228.2	228.3	228.5	228.5	228.5	228.5	228.5	229.5	231.5
175°	229.8	229.8	229.8	229.8	229.8	229.8	229.4	228.8	228.5	229.1	230.4
177.5°	229.8	229.8	229.8	229.8	229.8	229.8	229.5	229.0	228.8	229.3	230.3
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P933824

CATALOG NUMBER: SQ4-FA-025U-050D-927-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1053.4	1050.4	1054.5	1043.1	1054.5	1050.4	1053.4	1060.7	1054.5	1058.6	1062.8
5°	924.4	919.2	902.7	889.3	902.7	919.2	924.4	946.0	956.3	975.0	999.8
7.5°	826.2	822.1	818.0	809.7	818.0	822.1	826.2	832.4	842.8	859.3	877.9
10°	804.6	805.6	811.8	810.7	811.8	805.6	804.6	802.5	799.4	802.5	813.8
12.5°	860.3	869.6	903.7	901.7	903.7	869.6	860.3	819.0	791.1	785.9	788.0
15°	924.4	927.5	934.7	935.7	934.7	927.5	924.4	907.8	824.2	788.0	776.7
17.5°	930.5	931.6	936.8	936.8	936.8	931.6	930.5	923.3	895.4	846.9	782.9
20°	925.4	927.5	937.8	939.9	937.8	927.5	925.4	916.1	900.6	883.0	834.5
22.5°	923.3	927.5	935.7	934.7	935.7	927.5	923.3	908.8	895.4	883.0	863.4
25°	913.0	913.0	914.1	915.1	914.1	913.0	913.0	901.7	874.8	871.7	860.3
27.5°	891.3	893.4	899.6	898.5	899.6	893.4	891.3	887.2	858.2	855.2	846.9
30°	871.7	869.6	864.5	860.3	864.5	869.6	871.7	865.5	836.6	828.3	830.4
32.5°	838.6	833.4	828.3	825.2	828.3	833.4	838.6	836.6	814.9	803.5	805.6
35°	799.4	800.4	799.4	796.3	799.4	800.4	799.4	801.5	788.0	777.7	776.7
37.5°	771.5	773.5	772.5	768.4	772.5	773.5	771.5	769.5	750.8	747.7	749.8
40°	742.6	743.6	742.6	739.5	742.6	743.6	742.6	738.4	712.6	713.6	720.9
42.5°	714.7	713.6	710.6	708.5	710.6	713.6	714.7	708.5	675.4	672.4	685.8
45°	682.7	683.7	677.5	674.4	677.5	683.7	682.7	678.5	644.5	636.2	645.5
47.5°	650.6	650.6	645.5	642.4	645.5	650.6	650.6	645.5	609.4	601.1	606.2
50°	616.6	615.5	608.3	607.3	608.3	615.5	616.6	613.5	575.3	568.0	568.0
52.5°	577.3	577.3	578.3	580.4	578.3	577.3	577.3	578.3	544.3	537.1	535.0
55°	543.2	544.3	551.6	553.6	551.6	544.3	543.2	543.2	512.3	505.0	500.9
57.5°	508.1	508.1	513.3	513.3	513.3	508.1	508.1	506.0	476.1	469.9	467.9
60°	467.9	469.9	474.1	473.0	474.1	469.9	467.9	465.8	440.0	435.8	428.6
62.5°	425.5	427.6	428.6	426.6	428.6	427.6	425.5	419.3	403.9	400.7	391.5
65°	381.1	383.2	384.2	382.2	384.2	383.2	381.1	378.0	366.7	361.5	353.2
67.5°	335.6	334.6	333.6	337.7	333.6	334.6	335.6	331.6	324.3	320.2	308.8
70°	289.2	289.2	288.1	290.2	288.1	289.2	289.2	286.1	282.0	278.9	268.5
72.5°	239.6	238.5	242.7	239.6	242.7	238.5	239.6	238.5	236.5	233.4	223.1
75°	191.0	193.1	191.0	194.2	191.0	193.1	191.0	192.1	191.0	189.0	181.8
77.5°	145.6	147.7	145.6	145.6	145.6	147.7	145.6	146.7	146.7	146.7	140.4
80°	103.3	102.3	102.3	101.2	102.3	102.3	103.3	103.3	104.3	102.3	100.2
82.5°	66.1	65.1	65.1	67.1	65.1	65.1	66.1	67.1	65.1	65.1	65.1
85°	36.1	37.2	35.1	35.1	35.1	37.2	36.1	34.1	36.1	36.1	35.1
87.5°	13.4	12.4	12.4	12.4	12.4	12.4	13.4	14.5	14.5	14.5	15.5
90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.8	10.4	11.7	10.1
92.5°	29.3	28.2	23.5	18.8	23.5	28.2	29.3	41.6	57.8	66.0	58.0
95°	99.5	95.9	81.9	67.7	81.9	95.9	99.5	130.7	172.2	193.0	162.9
97.5°	229.7	223.0	196.0	169.2	196.0	223.0	229.7	249.4	275.7	288.8	238.7
100°	322.6	314.5	282.5	250.5	282.5	314.5	322.6	321.1	319.2	318.2	262.6
102.5°	401.8	394.9	367.5	340.1	367.5	394.9	401.8	376.7	343.3	326.6	270.3
105°	494.3	490.6	475.9	461.2	475.9	490.6	494.3	438.1	363.1	325.6	271.1
107.5°	542.5	543.4	546.9	550.5	546.9	543.4	542.5	464.0	359.4	307.1	259.0
110°	554.8	558.6	574.0	589.4	574.0	558.6	554.8	467.1	350.1	291.7	248.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	546.9	552.9	576.4	600.0	576.4	552.9	546.9	457.1	337.5	277.7	239.0
115°	520.3	528.5	561.2	593.8	561.2	528.5	520.3	433.8	318.5	260.8	228.3
117.5°	483.4	492.5	528.8	565.0	528.8	492.5	483.4	405.3	301.3	249.2	221.6
120°	458.5	467.3	502.6	537.8	502.6	467.3	458.5	387.2	292.1	244.6	219.4
122.5°	433.7	442.4	477.2	511.9	477.2	442.4	433.7	369.5	283.9	241.1	218.1
125°	400.9	408.9	440.9	472.9	440.9	408.9	400.9	346.3	273.6	237.2	217.2
127.5°	374.5	381.3	408.3	435.3	408.3	381.3	374.5	327.7	265.3	234.0	216.6
130°	357.8	364.1	389.0	414.0	389.0	364.1	357.8	316.2	260.6	232.8	217.0
132.5°	343.7	349.3	371.6	393.9	371.6	349.3	343.7	306.3	256.6	231.7	217.2
135°	323.6	328.4	347.7	366.9	347.7	328.4	323.6	292.4	250.7	229.8	217.0
137.5°	308.8	312.7	328.5	344.3	328.5	312.7	308.8	282.4	247.2	229.5	218.3
140°	296.9	300.6	315.3	330.1	315.3	300.6	296.9	274.1	243.7	228.5	218.5
142.5°	288.6	291.8	304.5	317.1	304.5	291.8	288.6	268.6	241.9	228.5	219.4
145°	276.1	278.5	288.1	297.7	288.1	278.5	276.1	259.7	237.9	226.9	219.4
147.5°	265.6	267.6	275.5	283.5	275.5	267.6	265.6	252.7	235.5	226.9	220.8
150°	259.6	261.2	267.7	274.1	267.7	261.2	259.6	248.7	234.2	226.9	221.6
152.5°	254.8	256.0	260.9	265.7	260.9	256.0	254.8	245.5	233.1	226.9	222.1
155°	249.1	249.9	253.1	256.3	253.1	249.9	249.1	241.7	231.8	226.9	223.3
157.5°	244.2	244.7	247.0	249.2	247.0	244.7	244.2	238.4	230.8	226.9	224.4
160°	241.7	242.0	243.3	244.6	243.3	242.0	241.7	236.8	230.2	226.9	224.9
162.5°	239.4	239.7	240.9	242.2	240.9	239.7	239.4	235.2	229.7	226.9	225.5
165°	235.9	236.2	237.5	238.8	237.5	236.2	235.9	232.8	228.9	226.9	226.3
167.5°	234.3	234.5	235.0	235.5	235.0	234.5	234.3	232.4	229.8	228.5	227.9
170°	234.3	234.3	234.3	234.3	234.3	234.3	234.3	232.4	229.8	228.5	228.5
172.5°	233.1	232.9	232.5	232.0	232.5	232.9	233.1	231.5	229.5	228.5	228.5
175°	231.4	231.4	231.4	231.4	231.4	231.4	231.4	230.4	229.1	228.5	228.8
177.5°	231.1	230.9	230.4	229.8	230.4	230.9	231.1	230.3	229.3	228.8	229.0
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1091.7	1091.7	1091.7	1091.7	1091.7
2.5°	1078.2	1083.4	1086.5	1090.6	1100.9
5°	1037.0	1056.6	1062.8	1078.2	1096.9
7.5°	946.0	1005.9	1022.5	1059.7	1088.5
10°	858.2	918.1	947.1	1034.9	1078.2
12.5°	813.8	849.0	868.6	991.5	1063.8
15°	785.9	810.7	825.2	933.6	1047.3
17.5°	764.3	781.9	792.2	876.9	1024.6
20°	750.8	759.1	768.4	835.5	998.7
22.5°	741.6	736.4	743.6	806.7	963.6
25°	735.4	715.7	724.0	783.9	922.3
27.5°	740.5	697.2	700.2	763.2	879.0
30°	741.6	674.4	675.4	741.6	830.4
32.5°	734.3	650.6	651.7	714.7	775.6
35°	716.8	622.8	621.8	683.7	701.2
37.5°	693.0	592.8	592.8	649.6	619.7
40°	664.1	562.9	566.0	605.2	547.4
42.5°	629.0	530.8	535.0	546.4	493.6
45°	590.7	499.9	503.0	461.7	452.4
47.5°	548.4	467.9	468.9	383.2	439.0
50°	497.8	434.8	430.7	328.4	437.9
52.5°	453.4	398.6	386.2	297.5	397.6
55°	410.0	360.4	333.6	273.7	368.7
57.5°	371.8	310.8	285.1	245.8	362.5
60°	336.7	262.3	242.7	215.8	332.6
62.5°	307.8	226.1	222.1	195.2	301.6
65°	276.8	201.4	200.4	177.6	256.1
67.5°	246.9	184.9	183.9	161.1	195.2
70°	214.8	167.3	165.2	143.5	144.6
72.5°	181.8	147.7	145.6	129.1	119.8
75°	148.7	125.0	124.0	112.6	97.1
77.5°	116.7	99.2	101.2	90.9	71.3
80°	83.6	72.3	74.4	65.1	53.7
82.5°	55.7	47.5	49.6	41.3	36.1
85°	31.0	26.9	27.9	21.7	16.6
87.5°	14.5	12.4	12.4	8.2	5.2
90°	6.8	4.3	4.0	2.8	1.5
92.5°	41.9	29.8	27.2	16.6	6.2
95°	102.9	58.0	53.2	34.0	14.8
97.5°	138.7	63.7	59.4	42.6	25.6
100°	151.7	68.5	64.6	49.3	34.0
102.5°	157.7	73.2	69.7	55.4	41.0
105°	162.2	80.4	77.4	65.2	53.1
107.5°	162.9	90.9	88.0	76.7	65.4
110°	161.7	96.7	94.2	83.9	73.8



TEST NUMBER: P933824

CATALOG NUMBER: SQ4-FA-025U-050D-927-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	161.8	103.8	101.3	91.6	81.9
115°	163.2	114.4	112.2	103.2	94.2
117.5°	166.3	124.8	122.7	114.6	106.4
120°	168.8	130.8	128.9	121.2	113.5
122.5°	172.3	137.9	136.0	128.2	120.4
125°	177.1	147.0	145.2	138.2	131.1
127.5°	181.9	155.8	154.0	146.8	139.8
130°	185.3	161.6	159.7	152.1	144.4
132.5°	188.2	166.4	164.5	156.8	149.1
135°	191.3	172.0	170.2	163.2	156.2
137.5°	195.9	179.1	177.3	170.4	163.5
140°	198.7	183.9	182.3	175.9	169.5
142.5°	201.1	187.4	186.0	180.0	174.2
145°	204.2	192.8	191.5	186.4	181.3
147.5°	208.7	199.6	198.4	193.3	188.3
150°	211.1	203.1	202.0	197.5	193.0
152.5°	212.6	205.4	204.6	201.1	197.7
155°	216.0	210.5	209.9	207.4	204.8
157.5°	219.4	215.6	215.0	212.5	210.1
160°	220.9	217.9	217.4	215.5	213.6
162.5°	222.5	220.4	220.0	218.6	217.1
165°	225.0	224.0	223.7	222.4	221.1
167.5°	226.8	226.0	225.8	225.2	224.6
170°	228.4	228.3	228.2	227.5	226.9
172.5°	228.5	228.5	228.5	228.3	228.2
175°	229.4	229.8	229.8	229.8	229.8
177.5°	229.5	229.8	229.8	229.8	229.8
180°	229.8	229.8	229.8	229.8	229.8



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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	11.77	12.79	12.58	13.62	14.65	14.60	15.62	15.41	16.46	17.49
	3H	12.25	13.17	13.08	14.01	15.07	15.96	16.88	16.79	17.72	18.78
	4H	12.45	13.32	13.29	14.17	15.24	16.42	17.28	17.26	18.13	19.20
	6H	12.58	13.38	13.43	14.24	15.32	16.71	17.51	17.57	18.37	19.45
	8H	12.59	13.35	13.45	14.22	15.31	16.79	17.55	17.65	18.43	19.51
	12H	12.56	13.29	13.43	14.16	15.27	16.84	17.56	17.71	18.43	19.54
4H	2H	12.82	13.68	13.67	14.53	15.60	15.03	15.90	15.88	16.75	17.82
	3H	13.86	14.58	14.72	15.47	16.55	16.55	17.28	17.41	18.16	19.24
	4H	14.14	14.80	15.01	15.68	16.79	17.09	17.75	17.96	18.63	19.74
	6H	14.28	14.84	15.16	15.75	16.87	17.47	18.03	18.35	18.94	20.05
	8H	14.29	14.82	15.18	15.72	16.85	17.58	18.11	18.47	19.01	20.14
	12H	14.26	14.74	15.17	15.66	16.79	17.64	18.12	18.55	19.04	20.17
8H	4H	14.61	15.14	15.50	16.04	17.17	17.23	17.76	18.12	18.66	19.79
	6H	14.88	15.32	15.80	16.26	17.39	17.67	18.11	18.59	19.05	20.18
	8H	14.92	15.31	15.85	16.25	17.39	17.83	18.22	18.75	19.15	20.30
	12H	14.92	15.26	15.84	16.18	17.38	17.93	18.28	18.86	19.20	20.40
12H	4H	14.63	15.10	15.53	16.02	17.16	17.20	17.68	18.11	18.60	19.73
	6H	14.94	15.33	15.87	16.27	17.41	17.67	18.06	18.60	18.99	20.14
	8H	15.02	15.36	15.95	16.28	17.48	17.84	18.18	18.77	19.11	20.31