

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: P934272

Luminaire Tested: SQ4-FA-050U-050D-935-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934272
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

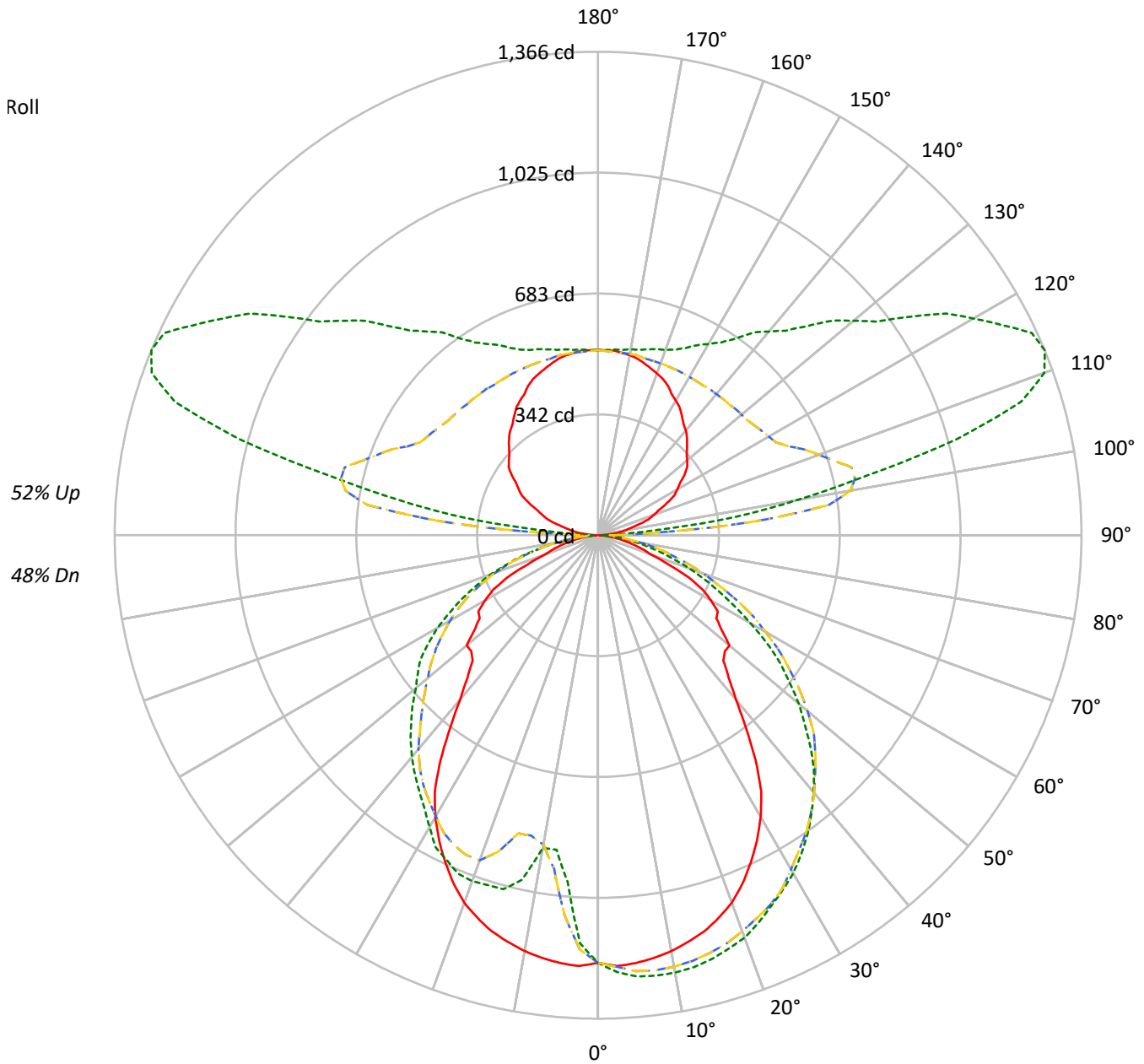
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6526.3 lumens
Efficiency: N/A
Efficacy: 114.9 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: General Diffuse

Input Watts (W): 56.8
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5605	5605	5605	5605
5°	5646	5657	5646	4449
10°	5609	5573	5609	3984
15°	5547	5452	5547	4553
20°	5431	5309	5431	4562
25°	5194	5100	5194	4465
30°	4887	4927	4887	4253
35°	4357	4708	4357	4020
40°	3630	4450	3630	3844
45°	3244	4148	3244	3641
50°	3446	3789	3446	3438
55°	3242	3400	3242	3320
60°	3342	2888	3342	3041
65°	3030	2388	3030	2668
70°	2098	1903	2098	2237
75°	1839	1406	1839	1685
80°	1482	929	1482	1012
85°	852	493	852	419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4971 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	1.7
10°-20°	309.6	4.7
20°-30°	478.6	7.3
30°-40°	571.3	8.8
40°-50°	574.7	8.8
50°-60°	500.0	7.7
60°-70°	354.5	5.4
70°-80°	187.6	2.9
80°-90°	48.7	0.7
90°-100°	255.1	3.9
100°-110°	670.6	10.3
110°-120°	695.4	10.7
120°-130°	557.8	8.5
130°-140°	437.7	6.7
140°-150°	335.9	5.1
150°-160°	241.9	3.7
160°-170°	148.0	2.3
170°-180°	50.0	0.8
0°-30°	897.2	13.7
0°-40°	1468.5	22.5
0°-60°	2543.1	39.0
0°-90°	3133.9	48.0
90°-120°	1621.1	24.8
90°-150°	2952.4	45.2
90°-180°	3392.0	52.0
0°-180°	6526.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1208	1208	1208	1208	1208	
5°	1214	1251	1214	984	1214	115
15°	1159	1240	1159	1035	1159	326
25°	1020	1156	1020	1012	1020	469
35°	776	1032	776	881	776	480
45°	501	850	501	746	501	401
55°	408	627	408	612	408	375
65°	283	378	283	423	283	271
75°	107	179	107	215	107	113
85°	18	46	18	39	18	25
90°	4	13	4	13	4	4
95°	34	154	34	154	34	37
105°	121	1050	121	1050	121	128
115°	215	1352	215	1352	215	212
125°	298	1077	298	1077	298	265
135°	356	836	356	836	356	275
145°	413	678	413	678	413	259
155°	466	584	466	584	466	214
165°	503	544	503	544	503	142
175°	523	527	523	527	523	50
180°	523	523	523	523	523	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1218.2	1218.2	1225.1	1227.4	1227.4	1223.9	1220.5	1223.9	1234.2	1237.6	1236.5
5°	1213.7	1222.8	1235.4	1237.6	1239.9	1238.8	1236.5	1238.8	1250.2	1252.5	1253.6
7.5°	1204.5	1221.7	1237.6	1241.1	1244.5	1241.1	1239.9	1242.2	1253.6	1255.9	1255.9
10°	1193.1	1217.1	1235.4	1237.6	1241.1	1237.6	1237.6	1242.2	1253.6	1255.9	1257.0
12.5°	1177.0	1210.2	1227.4	1229.6	1234.2	1233.1	1231.9	1236.5	1247.9	1250.2	1250.2
15°	1158.8	1197.7	1213.7	1215.9	1223.9	1221.7	1221.7	1226.2	1238.8	1242.2	1241.1
17.5°	1133.7	1181.6	1200.0	1203.4	1209.1	1208.0	1209.1	1213.7	1225.1	1227.4	1228.5
20°	1105.0	1159.9	1181.6	1185.0	1190.8	1190.8	1190.8	1196.5	1208.0	1212.5	1212.5
22.5°	1066.2	1137.1	1159.9	1162.2	1169.1	1169.1	1171.3	1179.3	1189.6	1190.8	1190.8
25°	1020.5	1111.9	1131.4	1138.2	1145.1	1148.5	1151.9	1156.5	1159.9	1158.8	1159.9
27.5°	972.6	1079.9	1105.0	1109.6	1118.8	1122.3	1126.8	1128.0	1129.1	1132.5	1130.3
30°	918.8	1035.4	1073.1	1077.7	1092.5	1094.8	1090.2	1092.5	1098.2	1100.5	1102.8
32.5°	858.2	969.1	1040.0	1050.3	1064.0	1057.1	1056.0	1059.4	1068.5	1068.5	1070.8
35°	775.9	917.7	1009.1	1018.2	1028.5	1020.5	1025.1	1026.2	1031.9	1035.4	1034.2
37.5°	685.7	873.1	977.1	984.0	992.0	981.7	988.5	992.0	996.5	994.2	994.2
40°	605.7	803.4	939.4	943.9	950.8	942.8	949.6	951.9	954.2	951.9	950.8
42.5°	546.2	726.8	899.4	905.1	900.5	906.3	908.5	913.1	909.7	905.1	905.1
45°	500.6	706.2	855.9	862.8	855.9	865.1	868.5	868.5	858.2	855.9	854.8
47.5°	485.7	665.1	812.6	812.6	809.1	820.6	826.3	818.3	808.0	804.5	804.5
50°	484.5	619.4	753.1	748.6	764.5	778.2	772.5	764.5	756.5	744.0	744.0
52.5°	440.0	563.4	676.6	693.7	718.8	726.8	717.6	709.7	696.0	690.2	685.7
55°	407.9	505.2	606.8	641.1	667.4	677.7	660.6	652.5	631.9	628.5	626.2
57.5°	401.1	420.5	542.8	586.3	618.2	617.1	606.8	592.0	574.8	571.4	570.2
60°	368.0	304.0	474.2	525.7	558.8	555.4	546.2	532.5	516.6	514.3	512.0
62.5°	333.7	220.6	396.5	454.8	501.7	500.6	492.5	472.0	460.5	454.8	450.3
65°	283.4	185.1	282.3	378.3	445.7	448.0	430.9	415.9	403.4	396.5	395.4
67.5°	216.0	150.9	190.8	315.4	392.0	389.7	368.0	361.2	345.1	341.7	334.8
70°	160.0	100.5	132.6	256.0	339.4	333.7	316.5	308.6	293.7	285.7	281.2
72.5°	132.6	81.1	97.1	198.9	285.7	278.9	263.9	254.8	242.3	235.4	230.8
75°	107.4	85.7	74.3	147.4	232.0	227.4	213.7	204.6	194.3	185.1	186.2
77.5°	78.9	80.0	59.4	108.5	184.0	177.1	169.1	157.7	153.1	144.0	144.0
80°	59.4	62.9	44.6	74.3	132.6	132.6	125.7	117.7	109.7	105.1	105.1
82.5°	40.0	40.0	33.1	46.9	90.3	86.8	82.3	80.0	75.4	73.1	73.1
85°	18.3	22.8	20.5	28.5	49.2	51.5	51.5	49.2	48.0	45.8	46.9
87.5°	5.7	10.3	12.6	16.0	25.1	26.3	27.4	27.4	27.4	28.5	28.5
90°	3.5	6.3	9.1	9.8	15.4	22.9	26.7	23.7	17.8	13.4	13.4
92.5°	14.1	37.9	61.9	67.8	95.3	132.0	150.3	131.7	94.6	66.7	64.1
95°	33.7	77.4	121.2	132.1	234.5	371.0	439.4	392.1	297.5	226.5	218.5
97.5°	58.3	96.8	135.4	145.0	315.8	543.6	657.5	627.6	567.8	523.0	507.6
100°	77.3	112.2	147.1	155.9	345.5	598.2	724.5	726.8	731.1	734.3	716.1
102.5°	93.5	126.1	158.6	166.8	359.0	615.4	743.5	781.6	857.8	914.9	899.3
105°	120.8	148.4	176.1	183.0	369.2	617.4	741.4	826.8	997.6	1125.7	1117.2
107.5°	148.9	174.7	200.4	206.9	371.0	589.8	699.2	818.3	1056.6	1235.2	1237.3
110°	167.8	191.1	214.4	220.2	368.2	565.5	664.1	797.3	1063.6	1263.3	1272.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	186.5	208.7	230.8	236.3	368.3	544.3	632.2	768.4	1041.0	1245.4	1258.8
115°	214.6	235.1	255.5	260.6	371.7	519.9	593.9	725.2	987.7	1184.6	1203.2
117.5°	242.3	260.9	279.5	284.1	378.6	504.6	567.5	686.0	923.0	1100.7	1121.3
120°	258.5	276.0	293.5	297.9	384.3	499.4	557.0	665.2	881.7	1044.1	1064.1
122.5°	274.3	291.9	309.5	314.0	392.3	496.7	548.9	646.4	841.4	987.6	1007.4
125°	298.5	314.6	330.7	334.7	403.2	494.5	540.2	623.0	788.6	912.8	931.1
127.5°	318.2	334.4	350.6	354.7	414.1	493.2	532.8	603.9	746.1	852.8	868.1
130°	328.7	346.2	363.7	368.1	422.0	494.0	529.9	593.2	719.9	814.8	829.0
132.5°	339.6	357.1	374.6	379.0	428.5	494.5	527.6	584.2	697.5	782.5	795.2
135°	355.8	371.7	387.6	391.6	435.5	494.0	523.3	570.8	665.7	736.8	747.8
137.5°	372.3	388.1	403.8	407.8	446.0	497.1	522.6	562.7	643.0	703.2	712.1
140°	386.0	400.5	415.0	418.7	452.5	497.6	520.1	554.8	624.1	676.1	684.4
142.5°	396.5	409.9	423.4	426.7	457.9	499.4	520.1	550.6	611.5	657.1	664.4
145°	412.7	424.4	436.1	439.0	464.9	499.4	516.7	541.5	591.4	628.7	634.1
147.5°	428.8	440.2	451.6	454.5	475.2	502.9	516.7	536.2	575.4	604.7	609.3
150°	439.4	449.7	460.0	462.6	480.6	504.6	516.7	533.2	566.3	591.1	594.8
152.5°	450.3	458.1	465.9	467.8	484.1	505.8	516.7	530.8	559.0	580.2	583.0
155°	466.4	472.2	478.0	479.4	491.9	508.4	516.7	527.9	550.3	567.2	569.1
157.5°	478.3	483.9	489.6	491.0	499.5	510.9	516.7	525.3	542.8	555.9	557.2
160°	486.4	490.8	495.2	496.3	503.1	512.1	516.7	524.2	539.1	550.3	551.1
162.5°	494.5	497.8	501.1	501.9	506.9	513.4	516.7	523.0	535.7	545.1	545.8
165°	503.3	506.3	509.2	509.9	512.1	515.1	516.7	521.2	530.2	537.0	537.8
167.5°	511.4	512.7	514.2	514.5	516.4	518.9	520.1	523.1	529.1	533.5	533.9
170°	516.7	518.0	519.5	519.8	519.9	520.1	520.1	523.1	529.1	533.5	533.5
172.5°	519.5	519.8	520.1	520.1	520.1	520.1	520.1	522.5	527.2	530.7	530.5
175°	523.3	523.3	523.3	523.3	522.3	520.8	520.1	521.6	524.6	526.8	526.8
177.5°	523.3	523.3	523.3	523.3	522.4	521.3	520.8	522.0	524.3	526.1	525.8
180°	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1238.8	1235.4	1238.8	1236.5	1237.6	1234.2	1223.9	1220.5	1223.9	1227.4	1227.4
5°	1253.6	1251.3	1253.6	1253.6	1252.5	1250.2	1238.8	1236.5	1238.8	1239.9	1237.6
7.5°	1258.2	1254.8	1258.2	1255.9	1255.9	1253.6	1242.2	1239.9	1241.1	1244.5	1241.1
10°	1258.2	1254.8	1258.2	1257.0	1255.9	1253.6	1242.2	1237.6	1237.6	1241.1	1237.6
12.5°	1252.5	1250.2	1252.5	1250.2	1250.2	1247.9	1236.5	1231.9	1233.1	1234.2	1229.6
15°	1243.3	1239.9	1243.3	1241.1	1242.2	1238.8	1226.2	1221.7	1221.7	1223.9	1215.9
17.5°	1229.6	1225.1	1229.6	1228.5	1227.4	1225.1	1213.7	1209.1	1208.0	1209.1	1203.4
20°	1213.7	1210.2	1213.7	1212.5	1212.5	1208.0	1196.5	1190.8	1190.8	1190.8	1185.0
22.5°	1188.5	1185.0	1188.5	1190.8	1190.8	1189.6	1179.3	1171.3	1169.1	1169.1	1162.2
25°	1159.9	1156.5	1159.9	1159.9	1158.8	1159.9	1156.5	1151.9	1148.5	1145.1	1138.2
27.5°	1132.5	1130.3	1132.5	1130.3	1132.5	1129.1	1128.0	1126.8	1122.3	1118.8	1109.6
30°	1105.0	1102.8	1105.0	1102.8	1100.5	1098.2	1092.5	1090.2	1094.8	1092.5	1077.7
32.5°	1070.8	1068.5	1070.8	1070.8	1068.5	1068.5	1059.4	1056.0	1057.1	1064.0	1050.3
35°	1035.4	1031.9	1035.4	1034.2	1035.4	1031.9	1026.2	1025.1	1020.5	1028.5	1018.2
37.5°	994.2	990.8	994.2	994.2	994.2	996.5	992.0	988.5	981.7	992.0	984.0
40°	951.9	947.3	951.9	950.8	951.9	954.2	951.9	949.6	942.8	950.8	943.9
42.5°	904.0	902.8	904.0	905.1	905.1	909.7	913.1	908.5	906.3	900.5	905.1
45°	852.5	850.2	852.5	854.8	855.9	858.2	868.5	868.5	865.1	855.9	862.8
47.5°	797.6	791.9	797.6	804.5	804.5	808.0	818.3	826.3	820.6	809.1	812.6
50°	739.4	740.6	739.4	744.0	744.0	756.5	764.5	772.5	778.2	764.5	748.6
52.5°	682.3	681.1	682.3	685.7	690.2	696.0	709.7	717.6	726.8	718.8	693.7
55°	625.1	627.4	625.1	626.2	628.5	631.9	652.5	660.6	677.7	667.4	641.1
57.5°	567.9	564.5	567.9	570.2	571.4	574.8	592.0	606.8	617.1	618.2	586.3
60°	501.7	497.1	501.7	512.0	514.3	516.6	532.5	546.2	555.4	558.8	525.7
62.5°	443.4	435.4	443.4	450.3	454.8	460.5	472.0	492.5	500.6	501.7	454.8
65°	381.7	378.3	381.7	395.4	396.5	403.4	415.9	430.9	448.0	445.7	378.3
67.5°	325.7	325.7	325.7	334.8	341.7	345.1	361.2	368.0	389.7	392.0	315.4
70°	274.3	273.2	274.3	281.2	285.7	293.7	308.6	316.5	333.7	339.4	256.0
72.5°	225.1	224.0	225.1	230.8	235.4	242.3	254.8	263.9	278.9	285.7	198.9
75°	181.7	179.4	181.7	186.2	185.1	194.3	204.6	213.7	227.4	232.0	147.4
77.5°	139.4	139.4	139.4	144.0	144.0	153.1	157.7	169.1	177.1	184.0	108.5
80°	104.0	102.8	104.0	105.1	105.1	109.7	117.7	125.7	132.6	132.6	74.3
82.5°	73.1	70.9	73.1	73.1	73.1	75.4	80.0	82.3	86.8	90.3	46.9
85°	45.8	45.8	45.8	46.9	45.8	48.0	49.2	51.5	51.5	49.2	28.5
87.5°	29.7	28.5	29.7	28.5	28.5	27.4	27.4	27.4	26.3	25.1	16.0
90°	13.4	13.4	13.4	13.4	13.4	17.8	23.7	26.7	22.9	15.4	9.8
92.5°	53.4	42.9	53.4	64.1	66.7	94.6	131.7	150.3	132.0	95.3	67.8
95°	186.3	154.2	186.3	218.5	226.5	297.5	392.1	439.4	371.0	234.5	132.1
97.5°	446.4	385.3	446.4	507.6	523.0	567.8	627.6	657.5	543.6	315.8	145.0
100°	643.3	570.3	643.3	716.1	734.3	731.1	726.8	724.5	598.2	345.5	155.9
102.5°	836.8	774.4	836.8	899.3	914.9	857.8	781.6	743.5	615.4	359.0	166.8
105°	1083.7	1050.1	1083.7	1117.2	1125.7	997.6	826.8	741.4	617.4	369.2	183.0
107.5°	1245.4	1253.5	1245.4	1237.3	1235.2	1056.6	818.3	699.2	589.8	371.0	206.9
110°	1307.0	1342.0	1307.0	1272.0	1263.3	1063.6	797.3	664.1	565.5	368.2	220.2



TEST NUMBER: P934272

CATALOG NUMBER: SQ4-FA-050U-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1312.5	1366.2	1312.5	1258.8	1245.4	1041.0	768.4	632.2	544.3	368.3	236.3
115°	1277.7	1352.1	1277.7	1203.2	1184.6	987.7	725.2	593.9	519.9	371.7	260.6
117.5°	1204.0	1286.5	1204.0	1121.3	1100.7	923.0	686.0	567.5	504.6	378.6	284.1
120°	1144.4	1224.7	1144.4	1064.1	1044.1	881.7	665.2	557.0	499.4	384.3	297.9
122.5°	1086.6	1165.7	1086.6	1007.4	987.6	841.4	646.4	548.9	496.7	392.3	314.0
125°	1003.9	1076.8	1003.9	931.1	912.8	788.6	623.0	540.2	494.5	403.2	334.7
127.5°	929.6	991.1	929.6	868.1	852.8	746.1	603.9	532.8	493.2	414.1	354.7
130°	885.8	942.7	885.8	829.0	814.8	719.9	593.2	529.9	494.0	422.0	368.1
132.5°	846.1	897.0	846.1	795.2	782.5	697.5	584.2	527.6	494.5	428.5	379.0
135°	791.7	835.6	791.7	747.8	736.8	665.7	570.8	523.3	494.0	435.5	391.6
137.5°	748.1	783.9	748.1	712.1	703.2	643.0	562.7	522.6	497.1	446.0	407.8
140°	718.0	751.5	718.0	684.4	676.1	624.1	554.8	520.1	497.6	452.5	418.7
142.5°	693.2	722.1	693.2	664.4	657.1	611.5	550.6	520.1	499.4	457.9	426.7
145°	656.0	677.9	656.0	634.1	628.7	591.4	541.5	516.7	499.4	464.9	439.0
147.5°	627.4	645.6	627.4	609.3	604.7	575.4	536.2	516.7	502.9	475.2	454.5
150°	609.4	624.1	609.4	594.8	591.1	566.3	533.2	516.7	504.6	480.6	462.6
152.5°	594.1	605.2	594.1	583.0	580.2	559.0	530.8	516.7	505.8	484.1	467.8
155°	576.4	583.7	576.4	569.1	567.2	550.3	527.9	516.7	508.4	491.9	479.4
157.5°	562.4	567.5	562.4	557.2	555.9	542.8	525.3	516.7	510.9	499.5	491.0
160°	554.1	557.0	554.1	551.1	550.3	539.1	524.2	516.7	512.1	503.1	496.3
162.5°	548.6	551.4	548.6	545.8	545.1	535.7	523.0	516.7	513.4	506.9	501.9
165°	540.7	543.7	540.7	537.8	537.0	530.2	521.2	516.7	515.1	512.1	509.9
167.5°	535.1	536.3	535.1	533.9	533.5	529.1	523.1	520.1	518.9	516.4	514.5
170°	533.5	533.5	533.5	533.5	533.5	529.1	523.1	520.1	520.1	519.9	519.8
172.5°	529.3	528.2	529.3	530.5	530.7	527.2	522.5	520.1	520.1	520.1	520.1
175°	526.8	526.8	526.8	526.8	526.8	524.6	521.6	520.1	520.8	522.3	523.3
177.5°	524.6	523.3	524.6	525.8	526.1	524.3	522.0	520.8	521.3	522.4	523.3
180°	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3



TEST NUMBER: P934272

CATALOG NUMBER: SQ4-FA-050U-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1225.1	1218.2	1218.2	1206.8	1202.3	1198.8	1193.1	1175.9	1171.3	1166.8	1173.6
5°	1235.4	1222.8	1213.7	1193.1	1175.9	1169.1	1147.4	1106.2	1078.8	1058.2	1046.8
7.5°	1237.6	1221.7	1204.5	1172.5	1131.4	1113.1	1046.8	971.4	950.8	932.5	921.1
10°	1235.4	1217.1	1193.1	1145.1	1048.0	1015.9	949.6	900.5	888.0	884.5	888.0
12.5°	1227.4	1210.2	1177.0	1097.1	961.1	939.4	900.5	871.9	869.6	875.3	906.3
15°	1213.7	1197.7	1158.8	1033.0	913.1	897.1	869.6	859.4	871.9	912.0	1004.5
17.5°	1200.0	1181.6	1133.7	970.3	876.5	865.1	845.7	866.2	937.1	990.8	1021.6
20°	1181.6	1159.9	1105.0	924.5	850.2	840.0	830.8	923.4	977.1	996.5	1013.6
22.5°	1159.9	1137.1	1066.2	892.6	822.8	814.9	820.6	955.3	977.1	990.8	1005.6
25°	1131.4	1111.9	1020.5	867.4	801.1	791.9	813.7	951.9	964.5	968.0	997.7
27.5°	1105.0	1079.9	972.6	844.5	774.8	771.4	819.4	937.1	946.2	949.6	981.7
30°	1073.1	1035.4	918.8	820.6	747.4	746.3	820.6	918.8	916.5	925.7	957.6
32.5°	1040.0	969.1	858.2	790.8	721.1	719.9	812.6	891.4	889.1	901.7	925.7
35°	1009.1	917.7	775.9	756.5	688.0	689.1	793.1	859.4	860.5	871.9	886.8
37.5°	977.1	873.1	685.7	718.8	656.0	656.0	766.8	829.7	827.4	830.8	851.4
40°	939.4	803.4	605.7	669.7	626.2	622.8	734.8	797.6	789.6	788.5	817.1
42.5°	899.4	726.8	546.2	604.6	592.0	587.4	696.0	758.8	744.0	747.4	783.9
45°	855.9	706.2	500.6	510.9	556.5	553.1	653.7	714.2	703.9	713.1	750.8
47.5°	812.6	665.1	485.7	424.0	518.9	517.7	606.8	670.8	665.1	674.3	714.2
50°	753.1	619.4	484.5	363.4	476.5	481.1	550.8	628.5	628.5	636.5	678.8
52.5°	676.6	563.4	440.0	329.1	427.4	441.1	501.7	592.0	594.3	602.3	639.9
55°	606.8	505.2	407.9	302.8	369.1	398.8	453.7	554.2	558.8	566.8	601.1
57.5°	542.8	420.5	401.1	272.0	315.4	344.0	411.4	517.7	520.0	526.8	559.9
60°	474.2	304.0	368.0	238.8	268.6	290.3	372.6	474.2	482.2	486.8	515.4
62.5°	396.5	220.6	333.7	216.0	245.7	250.2	340.5	433.2	443.4	446.9	464.0
65°	282.3	185.1	283.4	196.6	221.7	222.9	306.3	390.8	400.0	405.7	418.2
67.5°	190.8	150.9	216.0	178.2	203.5	204.6	273.2	341.7	354.3	358.9	366.9
70°	132.6	100.5	160.0	158.8	182.8	185.1	237.7	297.1	308.6	312.0	316.5
72.5°	97.1	81.1	132.6	142.9	161.1	163.4	201.2	246.8	258.2	261.7	263.9
75°	74.3	85.7	107.4	124.6	137.2	138.3	164.5	201.2	209.2	211.4	212.6
77.5°	59.4	80.0	78.9	100.5	112.0	109.7	129.2	155.4	162.3	162.3	162.3
80°	44.6	62.9	59.4	72.0	82.3	80.0	92.5	110.8	113.1	115.4	114.3
82.5°	33.1	40.0	40.0	45.8	54.9	52.6	61.7	72.0	72.0	72.0	74.3
85°	20.5	22.8	18.3	24.0	30.8	29.7	34.3	38.9	40.0	40.0	37.7
87.5°	12.6	10.3	5.7	9.1	13.7	13.7	16.0	17.1	16.0	16.0	16.0
90°	9.1	6.3	3.5	6.3	9.1	9.8	15.4	22.9	26.7	23.7	17.8
92.5°	61.9	37.9	14.1	37.9	61.9	67.8	95.3	132.0	150.3	131.7	94.6
95°	121.2	77.4	33.7	77.4	121.2	132.1	234.5	371.0	439.4	392.1	297.5
97.5°	135.4	96.8	58.3	96.8	135.4	145.0	315.8	543.6	657.5	627.6	567.8
100°	147.1	112.2	77.3	112.2	147.1	155.9	345.5	598.2	724.5	726.8	731.1
102.5°	158.6	126.1	93.5	126.1	158.6	166.8	359.0	615.4	743.5	781.6	857.8
105°	176.1	148.4	120.8	148.4	176.1	183.0	369.2	617.4	741.4	826.8	997.6
107.5°	200.4	174.7	148.9	174.7	200.4	206.9	371.0	589.8	699.2	818.3	1056.6
110°	214.4	191.1	167.8	191.1	214.4	220.2	368.2	565.5	664.1	797.3	1063.6



TEST NUMBER: P934272

CATALOG NUMBER: SQ4-FA-050U-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	230.8	208.7	186.5	208.7	230.8	236.3	368.3	544.3	632.2	768.4	1041.0
115°	255.5	235.1	214.6	235.1	255.5	260.6	371.7	519.9	593.9	725.2	987.7
117.5°	279.5	260.9	242.3	260.9	279.5	284.1	378.6	504.6	567.5	686.0	923.0
120°	293.5	276.0	258.5	276.0	293.5	297.9	384.3	499.4	557.0	665.2	881.7
122.5°	309.5	291.9	274.3	291.9	309.5	314.0	392.3	496.7	548.9	646.4	841.4
125°	330.7	314.6	298.5	314.6	330.7	334.7	403.2	494.5	540.2	623.0	788.6
127.5°	350.6	334.4	318.2	334.4	350.6	354.7	414.1	493.2	532.8	603.9	746.1
130°	363.7	346.2	328.7	346.2	363.7	368.1	422.0	494.0	529.9	593.2	719.9
132.5°	374.6	357.1	339.6	357.1	374.6	379.0	428.5	494.5	527.6	584.2	697.5
135°	387.6	371.7	355.8	371.7	387.6	391.6	435.5	494.0	523.3	570.8	665.7
137.5°	403.8	388.1	372.3	388.1	403.8	407.8	446.0	497.1	522.6	562.7	643.0
140°	415.0	400.5	386.0	400.5	415.0	418.7	452.5	497.6	520.1	554.8	624.1
142.5°	423.4	409.9	396.5	409.9	423.4	426.7	457.9	499.4	520.1	550.6	611.5
145°	436.1	424.4	412.7	424.4	436.1	439.0	464.9	499.4	516.7	541.5	591.4
147.5°	451.6	440.2	428.8	440.2	451.6	454.5	475.2	502.9	516.7	536.2	575.4
150°	460.0	449.7	439.4	449.7	460.0	462.6	480.6	504.6	516.7	533.2	566.3
152.5°	465.9	458.1	450.3	458.1	465.9	467.8	484.1	505.8	516.7	530.8	559.0
155°	478.0	472.2	466.4	472.2	478.0	479.4	491.9	508.4	516.7	527.9	550.3
157.5°	489.6	483.9	478.3	483.9	489.6	491.0	499.5	510.9	516.7	525.3	542.8
160°	495.2	490.8	486.4	490.8	495.2	496.3	503.1	512.1	516.7	524.2	539.1
162.5°	501.1	497.8	494.5	497.8	501.1	501.9	506.9	513.4	516.7	523.0	535.7
165°	509.2	506.3	503.3	506.3	509.2	509.9	512.1	515.1	516.7	521.2	530.2
167.5°	514.2	512.7	511.4	512.7	514.2	514.5	516.4	518.9	520.1	523.1	529.1
170°	519.5	518.0	516.7	518.0	519.5	519.8	519.9	520.1	520.1	523.1	529.1
172.5°	520.1	519.8	519.5	519.8	520.1	520.1	520.1	520.1	520.1	522.5	527.2
175°	523.3	523.3	523.3	523.3	523.3	523.3	522.3	520.8	520.1	521.6	524.6
177.5°	523.3	523.3	523.3	523.3	523.3	523.3	522.4	521.3	520.8	522.0	524.3
180°	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3



TEST NUMBER: P934272

CATALOG NUMBER: SQ4-FA-050U-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1165.6	1162.2	1166.8	1154.2	1166.8	1162.2	1165.6	1173.6	1166.8	1171.3	1175.9
5°	1022.8	1017.1	998.8	984.0	998.8	1017.1	1022.8	1046.8	1058.2	1078.8	1106.2
7.5°	914.2	909.7	905.1	896.0	905.1	909.7	914.2	921.1	932.5	950.8	971.4
10°	890.3	891.4	898.3	897.1	898.3	891.4	890.3	888.0	884.5	888.0	900.5
12.5°	951.9	962.2	999.9	997.7	999.9	962.2	951.9	906.3	875.3	869.6	871.9
15°	1022.8	1026.2	1034.2	1035.4	1034.2	1026.2	1022.8	1004.5	912.0	871.9	859.4
17.5°	1029.6	1030.8	1036.5	1036.5	1036.5	1030.8	1029.6	1021.6	990.8	937.1	866.2
20°	1023.9	1026.2	1037.7	1040.0	1037.7	1026.2	1023.9	1013.6	996.5	977.1	923.4
22.5°	1021.6	1026.2	1035.4	1034.2	1035.4	1026.2	1021.6	1005.6	990.8	977.1	955.3
25°	1010.2	1010.2	1011.4	1012.5	1011.4	1010.2	1010.2	997.7	968.0	964.5	951.9
27.5°	986.2	988.5	995.4	994.2	995.4	988.5	986.2	981.7	949.6	946.2	937.1
30°	964.5	962.2	956.5	951.9	956.5	962.2	964.5	957.6	925.7	916.5	918.8
32.5°	927.9	922.2	916.5	913.1	916.5	922.2	927.9	925.7	901.7	889.1	891.4
35°	884.5	885.7	884.5	881.1	884.5	885.7	884.5	886.8	871.9	860.5	859.4
37.5°	853.7	855.9	854.8	850.2	854.8	855.9	853.7	851.4	830.8	827.4	829.7
40°	821.7	822.8	821.7	818.3	821.7	822.8	821.7	817.1	788.5	789.6	797.6
42.5°	790.8	789.6	786.2	783.9	786.2	789.6	790.8	783.9	747.4	744.0	758.8
45°	755.4	756.5	749.7	746.3	749.7	756.5	755.4	750.8	713.1	703.9	714.2
47.5°	719.9	719.9	714.2	710.8	714.2	719.9	719.9	714.2	674.3	665.1	670.8
50°	682.3	681.1	673.1	672.0	673.1	681.1	682.3	678.8	636.5	628.5	628.5
52.5°	638.8	638.8	639.9	642.2	639.9	638.8	638.8	639.9	602.3	594.3	592.0
55°	601.1	602.3	610.3	612.5	610.3	602.3	601.1	601.1	566.8	558.8	554.2
57.5°	562.2	562.2	567.9	567.9	567.9	562.2	562.2	559.9	526.8	520.0	517.7
60°	517.7	520.0	524.6	523.4	524.6	520.0	517.7	515.4	486.8	482.2	474.2
62.5°	470.8	473.1	474.2	472.0	474.2	473.1	470.8	464.0	446.9	443.4	433.2
65°	421.7	424.0	425.1	422.8	425.1	424.0	421.7	418.2	405.7	400.0	390.8
67.5°	371.4	370.3	369.1	373.7	369.1	370.3	371.4	366.9	358.9	354.3	341.7
70°	320.0	320.0	318.8	321.1	318.8	320.0	320.0	316.5	312.0	308.6	297.1
72.5°	265.1	263.9	268.6	265.1	268.6	263.9	265.1	263.9	261.7	258.2	246.8
75°	211.4	213.7	211.4	214.9	211.4	213.7	211.4	212.6	211.4	209.2	201.2
77.5°	161.1	163.4	161.1	161.1	161.1	163.4	161.1	162.3	162.3	162.3	155.4
80°	114.3	113.1	113.1	112.0	113.1	113.1	114.3	114.3	115.4	113.1	110.8
82.5°	73.1	72.0	72.0	74.3	72.0	72.0	73.1	74.3	72.0	72.0	72.0
85°	40.0	41.2	38.9	38.9	38.9	41.2	40.0	37.7	40.0	40.0	38.9
87.5°	14.8	13.7	13.7	13.7	13.7	13.7	14.8	16.0	16.0	16.0	17.1
90°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	17.8	23.7	26.7	22.9
92.5°	66.7	64.1	53.4	42.9	53.4	64.1	66.7	94.6	131.7	150.3	132.0
95°	226.5	218.5	186.3	154.2	186.3	218.5	226.5	297.5	392.1	439.4	371.0
97.5°	523.0	507.6	446.4	385.3	446.4	507.6	523.0	567.8	627.6	657.5	543.6
100°	734.3	716.1	643.3	570.3	643.3	716.1	734.3	731.1	726.8	724.5	598.2
102.5°	914.9	899.3	836.8	774.4	836.8	899.3	914.9	857.8	781.6	743.5	615.4
105°	1125.7	1117.2	1083.7	1050.1	1083.7	1117.2	1125.7	997.6	826.8	741.4	617.4
107.5°	1235.2	1237.3	1245.4	1253.5	1245.4	1237.3	1235.2	1056.6	818.3	699.2	589.8
110°	1263.3	1272.0	1307.0	1342.0	1307.0	1272.0	1263.3	1063.6	797.3	664.1	565.5



TEST NUMBER: P934272

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1245.4	1258.8	1312.5	1366.2	1312.5	1258.8	1245.4	1041.0	768.4	632.2	544.3
115°	1184.6	1203.2	1277.7	1352.1	1277.7	1203.2	1184.6	987.7	725.2	593.9	519.9
117.5°	1100.7	1121.3	1204.0	1286.5	1204.0	1121.3	1100.7	923.0	686.0	567.5	504.6
120°	1044.1	1064.1	1144.4	1224.7	1144.4	1064.1	1044.1	881.7	665.2	557.0	499.4
122.5°	987.6	1007.4	1086.6	1165.7	1086.6	1007.4	987.6	841.4	646.4	548.9	496.7
125°	912.8	931.1	1003.9	1076.8	1003.9	931.1	912.8	788.6	623.0	540.2	494.5
127.5°	852.8	868.1	929.6	991.1	929.6	868.1	852.8	746.1	603.9	532.8	493.2
130°	814.8	829.0	885.8	942.7	885.8	829.0	814.8	719.9	593.2	529.9	494.0
132.5°	782.5	795.2	846.1	897.0	846.1	795.2	782.5	697.5	584.2	527.6	494.5
135°	736.8	747.8	791.7	835.6	791.7	747.8	736.8	665.7	570.8	523.3	494.0
137.5°	703.2	712.1	748.1	783.9	748.1	712.1	703.2	643.0	562.7	522.6	497.1
140°	676.1	684.4	718.0	751.5	718.0	684.4	676.1	624.1	554.8	520.1	497.6
142.5°	657.1	664.4	693.2	722.1	693.2	664.4	657.1	611.5	550.6	520.1	499.4
145°	628.7	634.1	656.0	677.9	656.0	634.1	628.7	591.4	541.5	516.7	499.4
147.5°	604.7	609.3	627.4	645.6	627.4	609.3	604.7	575.4	536.2	516.7	502.9
150°	591.1	594.8	609.4	624.1	609.4	594.8	591.1	566.3	533.2	516.7	504.6
152.5°	580.2	583.0	594.1	605.2	594.1	583.0	580.2	559.0	530.8	516.7	505.8
155°	567.2	569.1	576.4	583.7	576.4	569.1	567.2	550.3	527.9	516.7	508.4
157.5°	555.9	557.2	562.4	567.5	562.4	557.2	555.9	542.8	525.3	516.7	510.9
160°	550.3	551.1	554.1	557.0	554.1	551.1	550.3	539.1	524.2	516.7	512.1
162.5°	545.1	545.8	548.6	551.4	548.6	545.8	545.1	535.7	523.0	516.7	513.4
165°	537.0	537.8	540.7	543.7	540.7	537.8	537.0	530.2	521.2	516.7	515.1
167.5°	533.5	533.9	535.1	536.3	535.1	533.9	533.5	529.1	523.1	520.1	518.9
170°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	529.1	523.1	520.1	520.1
172.5°	530.7	530.5	529.3	528.2	529.3	530.5	530.7	527.2	522.5	520.1	520.1
175°	526.8	526.8	526.8	526.8	526.8	526.8	526.8	524.6	521.6	520.1	520.8
177.5°	526.1	525.8	524.6	523.3	524.6	525.8	526.1	524.3	522.0	520.8	521.3
180°	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3	523.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1193.1	1198.8	1202.3	1206.8	1218.2
5°	1147.4	1169.1	1175.9	1193.1	1213.7
7.5°	1046.8	1113.1	1131.4	1172.5	1204.5
10°	949.6	1015.9	1048.0	1145.1	1193.1
12.5°	900.5	939.4	961.1	1097.1	1177.0
15°	869.6	897.1	913.1	1033.0	1158.8
17.5°	845.7	865.1	876.5	970.3	1133.7
20°	830.8	840.0	850.2	924.5	1105.0
22.5°	820.6	814.9	822.8	892.6	1066.2
25°	813.7	791.9	801.1	867.4	1020.5
27.5°	819.4	771.4	774.8	844.5	972.6
30°	820.6	746.3	747.4	820.6	918.8
32.5°	812.6	719.9	721.1	790.8	858.2
35°	793.1	689.1	688.0	756.5	775.9
37.5°	766.8	656.0	656.0	718.8	685.7
40°	734.8	622.8	626.2	669.7	605.7
42.5°	696.0	587.4	592.0	604.6	546.2
45°	653.7	553.1	556.5	510.9	500.6
47.5°	606.8	517.7	518.9	424.0	485.7
50°	550.8	481.1	476.5	363.4	484.5
52.5°	501.7	441.1	427.4	329.1	440.0
55°	453.7	398.8	369.1	302.8	407.9
57.5°	411.4	344.0	315.4	272.0	401.1
60°	372.6	290.3	268.6	238.8	368.0
62.5°	340.5	250.2	245.7	216.0	333.7
65°	306.3	222.9	221.7	196.6	283.4
67.5°	273.2	204.6	203.5	178.2	216.0
70°	237.7	185.1	182.8	158.8	160.0
72.5°	201.2	163.4	161.1	142.9	132.6
75°	164.5	138.3	137.2	124.6	107.4
77.5°	129.2	109.7	112.0	100.5	78.9
80°	92.5	80.0	82.3	72.0	59.4
82.5°	61.7	52.6	54.9	45.8	40.0
85°	34.3	29.7	30.8	24.0	18.3
87.5°	16.0	13.7	13.7	9.1	5.7
90°	15.4	9.8	9.1	6.3	3.5
92.5°	95.3	67.8	61.9	37.9	14.1
95°	234.5	132.1	121.2	77.4	33.7
97.5°	315.8	145.0	135.4	96.8	58.3
100°	345.5	155.9	147.1	112.2	77.3
102.5°	359.0	166.8	158.6	126.1	93.5
105°	369.2	183.0	176.1	148.4	120.8
107.5°	371.0	206.9	200.4	174.7	148.9
110°	368.2	220.2	214.4	191.1	167.8



TEST NUMBER: P934272

CATALOG NUMBER: SQ4-FA-050U-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	368.3	236.3	230.8	208.7	186.5
115°	371.7	260.6	255.5	235.1	214.6
117.5°	378.6	284.1	279.5	260.9	242.3
120°	384.3	297.9	293.5	276.0	258.5
122.5°	392.3	314.0	309.5	291.9	274.3
125°	403.2	334.7	330.7	314.6	298.5
127.5°	414.1	354.7	350.6	334.4	318.2
130°	422.0	368.1	363.7	346.2	328.7
132.5°	428.5	379.0	374.6	357.1	339.6
135°	435.5	391.6	387.6	371.7	355.8
137.5°	446.0	407.8	403.8	388.1	372.3
140°	452.5	418.7	415.0	400.5	386.0
142.5°	457.9	426.7	423.4	409.9	396.5
145°	464.9	439.0	436.1	424.4	412.7
147.5°	475.2	454.5	451.6	440.2	428.8
150°	480.6	462.6	460.0	449.7	439.4
152.5°	484.1	467.8	465.9	458.1	450.3
155°	491.9	479.4	478.0	472.2	466.4
157.5°	499.5	491.0	489.6	483.9	478.3
160°	503.1	496.3	495.2	490.8	486.4
162.5°	506.9	501.9	501.1	497.8	494.5
165°	512.1	509.9	509.2	506.3	503.3
167.5°	516.4	514.5	514.2	512.7	511.4
170°	519.9	519.8	519.5	518.0	516.7
172.5°	520.1	520.1	520.1	519.8	519.5
175°	522.3	523.3	523.3	523.3	523.3
177.5°	522.4	523.3	523.3	523.3	523.3
180°	523.3	523.3	523.3	523.3	523.3



TEST NUMBER: P934272
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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	10.61	11.45	11.58	12.44	13.74	13.45	14.29	14.42	15.28	16.58
	3H	11.08	11.84	12.07	12.84	14.16	14.79	15.55	15.78	16.55	17.87
	4H	11.27	11.99	12.27	12.99	14.32	15.24	15.95	16.24	16.95	18.28
	6H	11.39	12.05	12.40	13.06	14.40	15.52	16.18	16.53	17.19	18.53
	8H	11.39	12.02	12.41	13.04	14.38	15.60	16.23	16.61	17.25	18.59
	12H	11.36	11.96	12.38	12.98	14.34	15.64	16.24	16.66	17.25	18.61
4H	2H	11.64	12.36	12.65	13.36	14.69	13.85	14.57	14.86	15.57	16.90
	3H	12.67	13.26	13.68	14.29	15.64	15.36	15.96	16.37	16.99	18.33
	4H	12.94	13.49	13.96	14.51	15.88	15.89	16.43	16.91	17.46	18.82
	6H	13.07	13.54	14.10	14.58	15.94	16.26	16.72	17.29	17.77	19.13
	8H	13.07	13.51	14.11	14.55	15.93	16.36	16.80	17.40	17.84	19.22
	12H	13.04	13.43	14.09	14.49	15.87	16.42	16.82	17.47	17.87	19.25
8H	4H	13.40	13.83	14.43	14.87	16.25	16.01	16.45	17.05	17.49	18.87
	6H	13.66	14.02	14.71	15.10	16.47	16.45	16.81	17.51	17.89	19.27
	8H	13.70	14.02	14.76	15.08	16.48	16.60	16.92	17.67	17.99	19.38
	12H	13.68	13.96	14.75	15.02	16.46	16.70	16.98	17.77	18.04	19.48
12H	4H	13.40	13.80	14.45	14.85	16.23	15.98	16.37	17.03	17.42	18.81
	6H	13.72	14.04	14.78	15.10	16.50	16.45	16.77	17.51	17.83	19.22
	8H	13.78	14.06	14.85	15.12	16.56	16.61	16.89	17.68	17.95	19.38