

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: P934221

Luminaire Tested: SQ4-FA-050U-050D-927-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934221
REPORT IS A COMBINATION OF REPORTS P933689 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-927-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

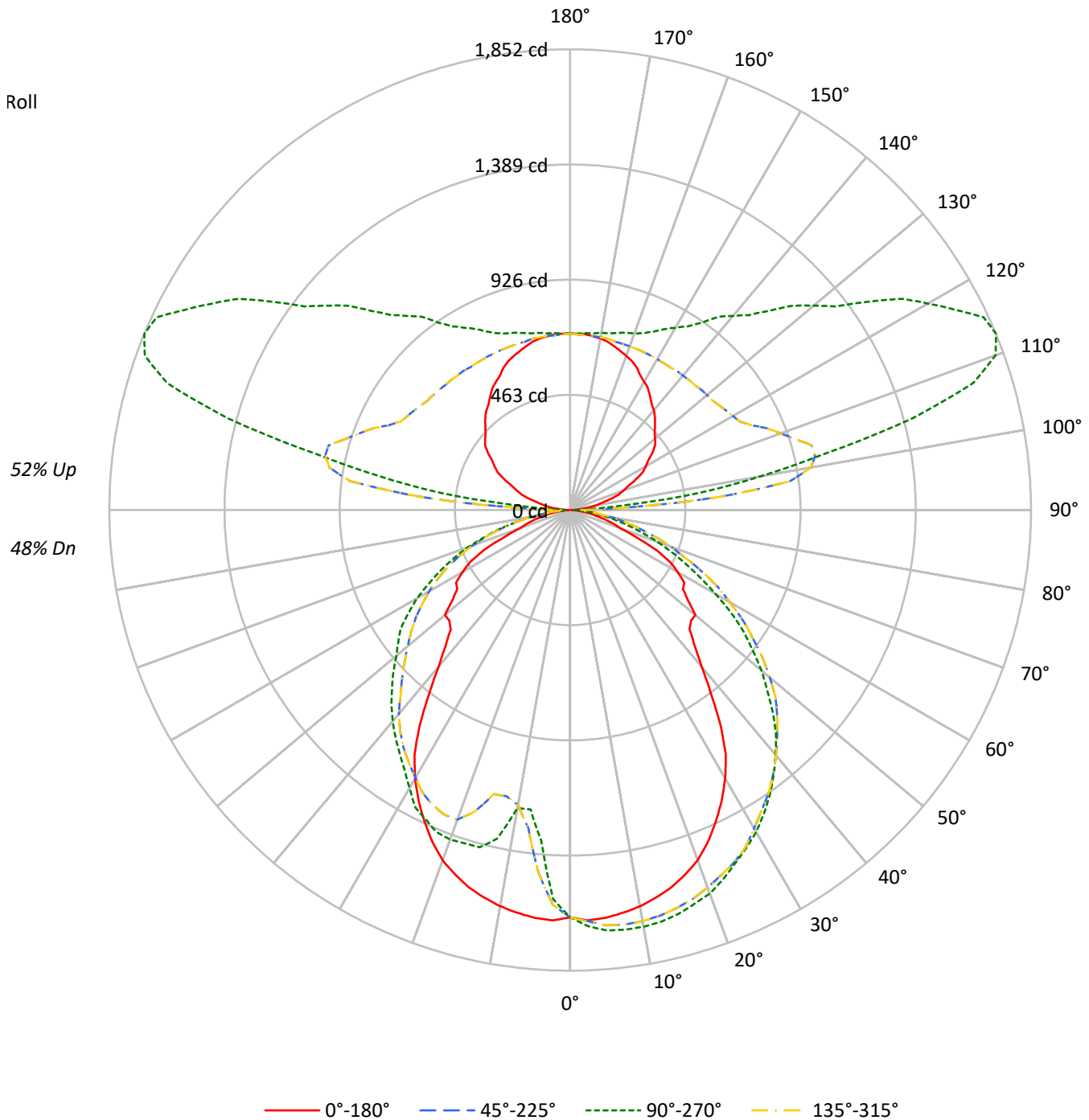
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8847.3 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 85.2
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				
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°	5065	5065	5065	5065
5°	5105	5113	5105	4020
10°	5072	5036	5072	3601
15°	5019	4927	5019	4114
20°	4916	4798	4916	4123
25°	4703	4609	4703	4036
30°	4427	4453	4427	3844
35°	3949	4255	3949	3633
40°	3292	4022	3292	3474
45°	2943	3749	2943	3290
50°	3130	3423	3130	3107
55°	2948	3073	2948	3000
60°	3042	2610	3042	2748
65°	2763	2158	2763	2412
70°	1918	1720	1918	2022
75°	1688	1271	1688	1522
80°	1369	840	1369	915
85°	804	445	804	378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4509 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.7
10°-20°	419.7	4.7
20°-30°	648.8	7.3
30°-40°	774.5	8.8
40°-50°	779.0	8.8
50°-60°	677.8	7.7
60°-70°	480.6	5.4
70°-80°	254.3	2.9
80°-90°	66.0	0.7
90°-100°	345.8	3.9
100°-110°	909.1	10.3
110°-120°	942.7	10.7
120°-130°	756.1	8.5
130°-140°	593.3	6.7
140°-150°	455.4	5.1
150°-160°	328.0	3.7
160°-170°	200.7	2.3
170°-180°	67.8	0.8
0°-30°	1216.3	13.7
0°-40°	1990.7	22.5
0°-60°	3447.6	39.0
0°-90°	4248.5	48.0
90°-120°	2197.6	24.8
90°-150°	4002.4	45.2
90°-180°	4599.0	52.0
0°-180°	8847.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1638	1638	1638	1638	1638	
5°	1645	1696	1645	1334	1645	156
15°	1571	1681	1571	1404	1571	442
25°	1384	1568	1384	1373	1384	635
35°	1052	1399	1052	1194	1052	651
45°	678	1153	678	1012	678	544
55°	553	850	553	830	553	508
65°	384	513	384	573	384	367
75°	146	243	146	291	146	153
85°	25	62	25	53	25	33
90°	5	18	5	18	5	5
95°	46	209	46	209	46	51
105°	164	1424	164	1424	164	174
115°	291	1833	291	1833	291	287
125°	405	1460	405	1460	405	359
135°	482	1133	482	1133	482	373
145°	559	919	559	919	559	350
155°	632	791	632	791	632	291
165°	682	737	682	737	682	193
175°	709	714	709	714	709	67
180°	709	709	709	709	709	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5
2.5°	1651.4	1651.4	1660.7	1663.8	1663.8	1659.2	1654.6	1659.2	1673.1	1677.8	1676.2
5°	1645.3	1657.7	1674.7	1677.8	1680.9	1679.4	1676.2	1679.4	1694.8	1697.9	1699.5
7.5°	1632.9	1656.1	1677.8	1682.4	1687.1	1682.4	1680.9	1684.0	1699.5	1702.5	1702.5
10°	1617.4	1649.9	1674.7	1677.8	1682.4	1677.8	1677.8	1684.0	1699.5	1702.5	1704.2
12.5°	1595.7	1640.6	1663.8	1667.0	1673.1	1671.6	1670.1	1676.2	1691.8	1694.8	1694.8
15°	1570.9	1623.5	1645.3	1648.3	1659.2	1656.1	1656.1	1662.3	1679.4	1684.0	1682.4
17.5°	1536.8	1601.9	1626.7	1631.3	1639.1	1637.5	1639.1	1645.3	1660.7	1663.8	1665.4
20°	1498.1	1572.4	1601.9	1606.5	1614.3	1614.3	1614.3	1622.0	1637.5	1643.7	1643.7
22.5°	1445.4	1541.5	1572.4	1575.6	1584.8	1584.8	1588.0	1598.8	1612.7	1614.3	1614.3
25°	1383.5	1507.4	1533.7	1543.0	1552.3	1556.9	1561.6	1567.8	1572.4	1570.9	1572.4
27.5°	1318.4	1464.0	1498.1	1504.3	1516.7	1521.3	1527.5	1529.1	1530.6	1535.2	1532.1
30°	1245.6	1403.6	1454.7	1460.9	1481.0	1484.2	1477.9	1481.0	1488.8	1491.9	1495.0
32.5°	1163.5	1313.7	1409.8	1423.7	1442.3	1433.0	1431.4	1436.1	1448.5	1448.5	1451.6
35°	1051.9	1244.0	1368.0	1380.4	1394.3	1383.5	1389.6	1391.2	1398.9	1403.6	1402.0
37.5°	929.5	1183.6	1324.6	1333.9	1344.7	1330.8	1340.0	1344.7	1350.9	1347.8	1347.8
40°	821.1	1089.1	1273.4	1279.7	1288.9	1278.1	1287.4	1290.5	1293.6	1290.5	1288.9
42.5°	740.5	985.3	1219.2	1227.0	1220.8	1228.5	1231.6	1237.9	1233.2	1227.0	1227.0
45°	678.5	957.4	1160.4	1169.6	1160.4	1172.8	1177.4	1177.4	1163.5	1160.4	1158.8
47.5°	658.4	901.7	1101.5	1101.5	1096.9	1112.3	1120.0	1109.3	1095.3	1090.6	1090.6
50°	656.9	839.7	1020.9	1014.7	1036.4	1055.0	1047.3	1036.4	1025.6	1008.5	1008.5
52.5°	596.4	763.8	917.1	940.4	974.4	985.3	972.9	962.0	943.5	935.7	929.5
55°	553.1	684.8	822.6	869.1	904.8	918.7	895.4	884.6	856.7	852.1	849.0
57.5°	543.8	570.1	735.9	794.7	838.1	836.6	822.6	802.5	779.2	774.6	773.1
60°	498.9	412.1	643.0	712.6	757.5	752.9	740.5	722.0	700.2	697.2	694.1
62.5°	452.4	299.0	537.5	616.6	680.1	678.5	667.7	639.8	624.3	616.6	610.4
65°	384.2	250.9	382.7	512.8	604.2	607.3	584.0	563.9	546.9	537.5	536.0
67.5°	292.8	204.5	258.7	427.6	531.4	528.3	498.9	489.6	467.9	463.2	453.9
70°	216.9	136.4	179.7	347.0	460.2	452.4	429.1	418.3	398.2	387.3	381.1
72.5°	179.7	110.0	131.7	269.6	387.3	378.0	357.9	345.5	328.4	319.2	312.9
75°	145.6	116.2	100.7	199.8	314.5	308.3	289.7	277.3	263.3	250.9	252.5
77.5°	106.9	108.4	80.5	147.1	249.4	240.2	229.3	213.8	207.6	195.2	195.2
80°	80.5	85.2	60.4	100.7	179.7	179.7	170.4	159.5	148.7	142.5	142.5
82.5°	54.2	54.2	44.9	63.5	122.4	117.7	111.6	108.4	102.3	99.2	99.2
85°	24.8	31.0	27.9	38.7	66.6	69.7	69.7	66.6	65.1	62.0	63.5
87.5°	7.8	13.9	17.0	21.7	34.1	35.7	37.2	37.2	37.2	38.7	38.7
90°	4.8	8.5	12.4	13.3	20.9	31.1	36.2	32.2	24.1	18.1	18.1
92.5°	19.0	51.4	83.8	91.9	129.1	178.9	203.7	178.6	128.2	90.5	86.9
95°	45.7	105.0	164.2	179.0	317.9	503.0	595.6	531.5	403.2	307.1	296.1
97.5°	79.0	131.3	183.6	196.7	428.2	736.9	891.3	850.8	769.7	708.9	688.2
100°	104.7	152.2	199.5	211.4	468.3	810.9	982.2	985.1	991.1	995.5	970.8
102.5°	126.7	170.9	215.1	226.1	486.7	834.2	1007.9	1059.5	1162.8	1240.2	1219.1
105°	163.8	201.2	238.6	248.0	500.3	836.8	1005.1	1120.8	1352.3	1525.9	1514.5
107.5°	201.9	236.8	271.7	280.4	503.0	799.6	947.9	1109.4	1432.4	1674.5	1677.3
110°	227.6	259.1	290.7	298.5	499.1	766.6	900.4	1080.8	1441.8	1712.6	1724.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	252.8	282.8	312.9	320.4	499.3	737.7	857.0	1041.7	1411.2	1688.3	1706.5
115°	290.9	318.6	346.3	353.3	503.9	704.7	805.1	983.1	1339.0	1605.9	1631.2
117.5°	328.5	353.7	378.8	385.2	513.2	684.0	769.4	930.0	1251.2	1492.1	1520.1
120°	350.4	374.1	397.8	403.7	520.8	677.1	755.1	901.9	1195.3	1415.5	1442.7
122.5°	371.8	395.8	419.6	425.7	531.8	673.4	744.1	876.3	1140.6	1338.8	1365.6
125°	404.7	426.5	448.3	453.8	546.6	670.4	732.3	844.5	1069.0	1237.4	1262.1
127.5°	431.4	453.4	475.4	480.9	561.3	668.6	722.3	818.7	1011.4	1156.0	1176.9
130°	445.7	469.4	493.0	499.0	572.1	669.7	718.5	804.3	975.9	1104.6	1123.8
132.5°	460.4	484.1	507.8	513.7	580.9	670.4	715.1	791.9	945.6	1060.8	1078.0
135°	482.3	503.9	525.4	530.8	590.4	669.7	709.4	773.8	902.4	998.9	1013.8
137.5°	504.7	526.1	547.5	552.8	604.7	673.9	708.5	762.8	871.6	953.2	965.3
140°	523.2	542.9	562.6	567.5	613.4	674.5	705.1	752.1	846.1	916.5	927.9
142.5°	537.5	555.7	574.0	578.5	620.7	677.0	705.1	746.4	828.9	890.8	900.6
145°	559.4	575.3	591.1	595.1	630.2	677.0	700.4	734.1	801.6	852.2	859.6
147.5°	581.4	596.8	612.2	616.1	644.2	681.7	700.4	727.0	780.1	819.9	826.1
150°	595.6	609.5	623.5	627.0	651.5	684.1	700.4	722.8	767.6	801.3	806.3
152.5°	610.4	620.9	631.6	634.2	656.3	685.7	700.4	719.6	757.8	786.6	790.3
155°	632.2	640.1	648.0	649.9	666.7	689.2	700.4	715.6	746.1	768.9	771.4
157.5°	648.5	656.1	663.7	665.6	677.2	692.7	700.4	712.2	735.9	753.7	755.4
160°	659.4	665.4	671.3	672.7	682.0	694.2	700.4	710.6	730.8	746.1	747.1
162.5°	670.4	674.8	679.3	680.4	687.1	695.9	700.4	708.9	726.0	738.9	739.8
165°	682.3	686.3	690.3	691.3	694.3	698.4	700.4	706.6	718.8	728.0	729.0
167.5°	693.2	695.1	697.0	697.5	700.0	703.4	705.1	709.1	717.2	723.2	723.6
170°	700.4	702.2	704.2	704.6	704.8	705.0	705.1	709.1	717.2	723.2	723.2
172.5°	704.2	704.6	705.0	705.1	705.1	705.1	705.1	708.2	714.6	719.4	719.0
175°	709.4	709.4	709.4	709.4	707.9	706.0	705.1	707.1	711.2	714.2	714.2
177.5°	709.4	709.4	709.4	709.4	708.3	706.9	706.1	707.7	710.9	713.3	712.8
180°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5
2.5°	1679.4	1674.7	1679.4	1676.2	1677.8	1673.1	1659.2	1654.6	1659.2	1663.8	1663.8
5°	1699.5	1696.4	1699.5	1699.5	1697.9	1694.8	1679.4	1676.2	1679.4	1680.9	1677.8
7.5°	1705.7	1701.0	1705.7	1702.5	1702.5	1699.5	1684.0	1680.9	1682.4	1687.1	1682.4
10°	1705.7	1701.0	1705.7	1704.2	1702.5	1699.5	1684.0	1677.8	1677.8	1682.4	1677.8
12.5°	1697.9	1694.8	1697.9	1694.8	1694.8	1691.8	1676.2	1670.1	1671.6	1673.1	1667.0
15°	1685.5	1680.9	1685.5	1682.4	1684.0	1679.4	1662.3	1656.1	1656.1	1659.2	1648.3
17.5°	1667.0	1660.7	1667.0	1665.4	1663.8	1660.7	1645.3	1639.1	1637.5	1639.1	1631.3
20°	1645.3	1640.6	1645.3	1643.7	1643.7	1637.5	1622.0	1614.3	1614.3	1614.3	1606.5
22.5°	1611.1	1606.5	1611.1	1614.3	1614.3	1612.7	1598.8	1588.0	1584.8	1584.8	1575.6
25°	1572.4	1567.8	1572.4	1572.4	1570.9	1572.4	1567.8	1561.6	1556.9	1552.3	1543.0
27.5°	1535.2	1532.1	1535.2	1532.1	1535.2	1530.6	1529.1	1527.5	1521.3	1516.7	1504.3
30°	1498.1	1495.0	1498.1	1495.0	1491.9	1488.8	1481.0	1477.9	1484.2	1481.0	1460.9
32.5°	1451.6	1448.5	1451.6	1451.6	1448.5	1448.5	1436.1	1431.4	1433.0	1442.3	1423.7
35°	1403.6	1398.9	1403.6	1402.0	1403.6	1398.9	1391.2	1389.6	1383.5	1394.3	1380.4
37.5°	1347.8	1343.2	1347.8	1347.8	1347.8	1350.9	1344.7	1340.0	1330.8	1344.7	1333.9
40°	1290.5	1284.3	1290.5	1288.9	1290.5	1293.6	1290.5	1287.4	1278.1	1288.9	1279.7
42.5°	1225.5	1223.8	1225.5	1227.0	1227.0	1233.2	1237.9	1231.6	1228.5	1220.8	1227.0
45°	1155.7	1152.6	1155.7	1158.8	1160.4	1163.5	1177.4	1177.4	1172.8	1160.4	1169.6
47.5°	1081.3	1073.6	1081.3	1090.6	1090.6	1095.3	1109.3	1120.0	1112.3	1096.9	1101.5
50°	1002.3	1003.8	1002.3	1008.5	1008.5	1025.6	1036.4	1047.3	1055.0	1036.4	1014.7
52.5°	924.8	923.3	924.8	929.5	935.7	943.5	962.0	972.9	985.3	974.4	940.4
55°	847.4	850.5	847.4	849.0	852.1	856.7	884.6	895.4	918.7	904.8	869.1
57.5°	769.9	765.3	769.9	773.1	774.6	779.2	802.5	822.6	836.6	838.1	794.7
60°	680.1	673.9	680.1	694.1	697.2	700.2	722.0	740.5	752.9	757.5	712.6
62.5°	601.1	590.3	601.1	610.4	616.6	624.3	639.8	667.7	678.5	680.1	616.6
65°	517.4	512.8	517.4	536.0	537.5	546.9	563.9	584.0	607.3	604.2	512.8
67.5°	441.5	441.5	441.5	453.9	463.2	467.9	489.6	498.9	528.3	531.4	427.6
70°	371.8	370.3	371.8	381.1	387.3	398.2	418.3	429.1	452.4	460.2	347.0
72.5°	305.2	303.6	305.2	312.9	319.2	328.4	345.5	357.9	378.0	387.3	269.6
75°	246.3	243.2	246.3	252.5	250.9	263.3	277.3	289.7	308.3	314.5	199.8
77.5°	189.0	189.0	189.0	195.2	195.2	207.6	213.8	229.3	240.2	249.4	147.1
80°	141.0	139.4	141.0	142.5	142.5	148.7	159.5	170.4	179.7	179.7	100.7
82.5°	99.2	96.0	99.2	99.2	99.2	102.3	108.4	111.6	117.7	122.4	63.5
85°	62.0	62.0	62.0	63.5	62.0	65.1	66.6	69.7	69.7	66.6	38.7
87.5°	40.3	38.7	40.3	38.7	38.7	37.2	37.2	37.2	35.7	34.1	21.7
90°	18.1	18.1	18.1	18.1	18.1	24.1	32.2	36.2	31.1	20.9	13.3
92.5°	72.5	58.1	72.5	86.9	90.5	128.2	178.6	203.7	178.9	129.1	91.9
95°	252.6	209.0	252.6	296.1	307.1	403.2	531.5	595.6	503.0	317.9	179.0
97.5°	605.2	522.3	605.2	688.2	708.9	769.7	850.8	891.3	736.9	428.2	196.7
100°	872.0	773.2	872.0	970.8	995.5	991.1	985.1	982.2	810.9	468.3	211.4
102.5°	1134.4	1049.8	1134.4	1219.1	1240.2	1162.8	1059.5	1007.9	834.2	486.7	226.1
105°	1469.1	1423.6	1469.1	1514.5	1525.9	1352.3	1120.8	1005.1	836.8	500.3	248.0
107.5°	1688.2	1699.2	1688.2	1677.3	1674.5	1432.4	1109.4	947.9	799.6	503.0	280.4
110°	1771.8	1819.2	1771.8	1724.4	1712.6	1441.8	1080.8	900.4	766.6	499.1	298.5



TEST NUMBER: P934221

CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1779.3	1852.1	1779.3	1706.5	1688.3	1411.2	1041.7	857.0	737.7	499.3	320.4
115°	1732.1	1833.1	1732.1	1631.2	1605.9	1339.0	983.1	805.1	704.7	503.9	353.3
117.5°	1632.0	1744.0	1632.0	1520.1	1492.1	1251.2	930.0	769.4	684.0	513.2	385.2
120°	1551.5	1660.2	1551.5	1442.7	1415.5	1195.3	901.9	755.1	677.1	520.8	403.7
122.5°	1472.9	1580.2	1472.9	1365.6	1338.8	1140.6	876.3	744.1	673.4	531.8	425.7
125°	1360.9	1459.8	1360.9	1262.1	1237.4	1069.0	844.5	732.3	670.4	546.6	453.8
127.5°	1260.2	1343.6	1260.2	1176.9	1156.0	1011.4	818.7	722.3	668.6	561.3	480.9
130°	1200.9	1277.9	1200.9	1123.8	1104.6	975.9	804.3	718.5	669.7	572.1	499.0
132.5°	1147.0	1216.0	1147.0	1078.0	1060.8	945.6	791.9	715.1	670.4	580.9	513.7
135°	1073.2	1132.7	1073.2	1013.8	998.9	902.4	773.8	709.4	669.7	590.4	530.8
137.5°	1014.0	1062.7	1014.0	965.3	953.2	871.6	762.8	708.5	673.9	604.7	552.8
140°	973.4	1018.9	973.4	927.9	916.5	846.1	752.1	705.1	674.5	613.4	567.5
142.5°	939.8	978.9	939.8	900.6	890.8	828.9	746.4	705.1	677.0	620.7	578.5
145°	889.3	918.9	889.3	859.6	852.2	801.6	734.1	700.4	677.0	630.2	595.1
147.5°	850.5	875.1	850.5	826.1	819.9	780.1	727.0	700.4	681.7	644.2	616.1
150°	826.1	846.1	826.1	806.3	801.3	767.6	722.8	700.4	684.1	651.5	627.0
152.5°	805.3	820.4	805.3	790.3	786.6	757.8	719.6	700.4	685.7	656.3	634.2
155°	781.4	791.3	781.4	771.4	768.9	746.1	715.6	700.4	689.2	666.7	649.9
157.5°	762.4	769.4	762.4	755.4	753.7	735.9	712.2	700.4	692.7	677.2	665.6
160°	751.1	755.1	751.1	747.1	746.1	730.8	710.6	700.4	694.2	682.0	672.7
162.5°	743.7	747.5	743.7	739.8	738.9	726.0	708.9	700.4	695.9	687.1	680.4
165°	733.0	737.0	733.0	729.0	728.0	718.8	706.6	700.4	698.4	694.3	691.3
167.5°	725.3	727.0	725.3	723.6	723.2	717.2	709.1	705.1	703.4	700.0	697.5
170°	723.2	723.2	723.2	723.2	723.2	717.2	709.1	705.1	705.0	704.8	704.6
172.5°	717.6	716.1	717.6	719.0	719.4	714.6	708.2	705.1	705.1	705.1	705.1
175°	714.2	714.2	714.2	714.2	714.2	711.2	707.1	705.1	706.0	707.9	709.4
177.5°	711.1	709.4	711.1	712.8	713.3	710.9	707.7	706.1	706.9	708.3	709.4
180°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4



TEST NUMBER: P934221

CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5
2.5°	1660.7	1651.4	1651.4	1635.9	1629.8	1625.1	1617.4	1594.1	1588.0	1581.7	1591.1
5°	1674.7	1657.7	1645.3	1617.4	1594.1	1584.8	1555.4	1499.7	1462.5	1434.6	1419.1
7.5°	1677.8	1656.1	1632.9	1589.5	1533.7	1508.9	1419.1	1316.9	1288.9	1264.2	1248.6
10°	1674.7	1649.9	1617.4	1552.3	1420.6	1377.2	1287.4	1220.8	1203.7	1199.1	1203.7
12.5°	1663.8	1640.6	1595.7	1487.3	1302.9	1273.4	1220.8	1182.0	1178.9	1186.7	1228.5
15°	1645.3	1623.5	1570.9	1400.5	1237.9	1216.1	1178.9	1165.0	1182.0	1236.2	1361.7
17.5°	1626.7	1601.9	1536.8	1315.3	1188.3	1172.8	1146.4	1174.3	1270.3	1343.2	1385.0
20°	1601.9	1572.4	1498.1	1253.3	1152.6	1138.7	1126.3	1251.8	1324.6	1350.9	1374.1
22.5°	1572.4	1541.5	1445.4	1209.9	1115.4	1104.6	1112.3	1295.1	1324.6	1343.2	1363.3
25°	1533.7	1507.4	1383.5	1175.9	1086.0	1073.6	1103.0	1290.5	1307.5	1312.2	1352.4
27.5°	1498.1	1464.0	1318.4	1144.8	1050.4	1045.7	1110.8	1270.3	1282.7	1287.4	1330.8
30°	1454.7	1403.6	1245.6	1112.3	1013.2	1011.6	1112.3	1245.6	1242.5	1254.9	1298.2
32.5°	1409.8	1313.7	1163.5	1072.1	977.5	976.0	1101.5	1208.4	1205.3	1222.3	1254.9
35°	1368.0	1244.0	1051.9	1025.6	932.6	934.2	1075.2	1165.0	1166.6	1182.0	1202.2
37.5°	1324.6	1183.6	929.5	974.4	889.3	889.3	1039.5	1124.7	1121.7	1126.3	1154.2
40°	1273.4	1089.1	821.1	907.8	849.0	844.3	996.1	1081.3	1070.5	1069.0	1107.6
42.5°	1219.2	985.3	740.5	819.5	802.5	796.3	943.5	1028.6	1008.5	1013.2	1062.8
45°	1160.4	957.4	678.5	692.5	754.4	749.8	886.1	968.3	954.3	966.7	1017.9
47.5°	1101.5	901.7	658.4	574.7	703.3	701.8	822.6	909.4	901.7	914.1	968.3
50°	1020.9	839.7	656.9	492.6	646.0	652.2	746.7	852.1	852.1	862.9	920.2
52.5°	917.1	763.8	596.4	446.1	579.4	598.0	680.1	802.5	805.6	816.4	867.6
55°	822.6	684.8	553.1	410.6	500.4	540.7	615.0	751.4	757.5	768.4	814.9
57.5°	735.9	570.1	543.8	368.7	427.6	466.3	557.7	701.8	704.9	714.2	759.1
60°	643.0	412.1	498.9	323.8	364.1	393.5	505.0	643.0	653.7	660.0	698.7
62.5°	537.5	299.0	452.4	292.8	333.1	339.3	461.7	587.1	601.1	605.8	629.0
65°	382.7	250.9	384.2	266.5	300.5	302.1	415.2	529.8	542.2	549.9	567.0
67.5°	258.7	204.5	292.8	241.7	275.7	277.3	370.3	463.2	480.2	486.5	497.3
70°	179.7	136.4	216.9	215.4	247.9	250.9	322.2	402.8	418.3	423.0	429.1
72.5°	131.7	110.0	179.7	193.7	218.4	221.5	272.7	334.6	350.1	354.7	357.9
75°	100.7	116.2	145.6	168.9	185.9	187.4	223.1	272.7	283.5	286.6	288.1
77.5°	80.5	108.4	106.9	136.4	151.8	148.7	175.1	210.7	220.0	220.0	220.0
80°	60.4	85.2	80.5	97.6	111.6	108.4	125.5	150.3	153.4	156.5	154.9
82.5°	44.9	54.2	54.2	62.0	74.4	71.3	83.6	97.6	97.6	97.6	100.7
85°	27.9	31.0	24.8	32.6	41.8	40.3	46.5	52.7	54.2	54.2	51.1
87.5°	17.0	13.9	7.8	12.4	18.6	18.6	21.7	23.3	21.7	21.7	21.7
90°	12.4	8.5	4.8	8.5	12.4	13.3	20.9	31.1	36.2	32.2	24.1
92.5°	83.8	51.4	19.0	51.4	83.8	91.9	129.1	178.9	203.7	178.6	128.2
95°	164.2	105.0	45.7	105.0	164.2	179.0	317.9	503.0	595.6	531.5	403.2
97.5°	183.6	131.3	79.0	131.3	183.6	196.7	428.2	736.9	891.3	850.8	769.7
100°	199.5	152.2	104.7	152.2	199.5	211.4	468.3	810.9	982.2	985.1	991.1
102.5°	215.1	170.9	126.7	170.9	215.1	226.1	486.7	834.2	1007.9	1059.5	1162.8
105°	238.6	201.2	163.8	201.2	238.6	248.0	500.3	836.8	1005.1	1120.8	1352.3
107.5°	271.7	236.8	201.9	236.8	271.7	280.4	503.0	799.6	947.9	1109.4	1432.4
110°	290.7	259.1	227.6	259.1	290.7	298.5	499.1	766.6	900.4	1080.8	1441.8



TEST NUMBER: P934221

CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	312.9	282.8	252.8	282.8	312.9	320.4	499.3	737.7	857.0	1041.7	1411.2
115°	346.3	318.6	290.9	318.6	346.3	353.3	503.9	704.7	805.1	983.1	1339.0
117.5°	378.8	353.7	328.5	353.7	378.8	385.2	513.2	684.0	769.4	930.0	1251.2
120°	397.8	374.1	350.4	374.1	397.8	403.7	520.8	677.1	755.1	901.9	1195.3
122.5°	419.6	395.8	371.8	395.8	419.6	425.7	531.8	673.4	744.1	876.3	1140.6
125°	448.3	426.5	404.7	426.5	448.3	453.8	546.6	670.4	732.3	844.5	1069.0
127.5°	475.4	453.4	431.4	453.4	475.4	480.9	561.3	668.6	722.3	818.7	1011.4
130°	493.0	469.4	445.7	469.4	493.0	499.0	572.1	669.7	718.5	804.3	975.9
132.5°	507.8	484.1	460.4	484.1	507.8	513.7	580.9	670.4	715.1	791.9	945.6
135°	525.4	503.9	482.3	503.9	525.4	530.8	590.4	669.7	709.4	773.8	902.4
137.5°	547.5	526.1	504.7	526.1	547.5	552.8	604.7	673.9	708.5	762.8	871.6
140°	562.6	542.9	523.2	542.9	562.6	567.5	613.4	674.5	705.1	752.1	846.1
142.5°	574.0	555.7	537.5	555.7	574.0	578.5	620.7	677.0	705.1	746.4	828.9
145°	591.1	575.3	559.4	575.3	591.1	595.1	630.2	677.0	700.4	734.1	801.6
147.5°	612.2	596.8	581.4	596.8	612.2	616.1	644.2	681.7	700.4	727.0	780.1
150°	623.5	609.5	595.6	609.5	623.5	627.0	651.5	684.1	700.4	722.8	767.6
152.5°	631.6	620.9	610.4	620.9	631.6	634.2	656.3	685.7	700.4	719.6	757.8
155°	648.0	640.1	632.2	640.1	648.0	649.9	666.7	689.2	700.4	715.6	746.1
157.5°	663.7	656.1	648.5	656.1	663.7	665.6	677.2	692.7	700.4	712.2	735.9
160°	671.3	665.4	659.4	665.4	671.3	672.7	682.0	694.2	700.4	710.6	730.8
162.5°	679.3	674.8	670.4	674.8	679.3	680.4	687.1	695.9	700.4	708.9	726.0
165°	690.3	686.3	682.3	686.3	690.3	691.3	694.3	698.4	700.4	706.6	718.8
167.5°	697.0	695.1	693.2	695.1	697.0	697.5	700.0	703.4	705.1	709.1	717.2
170°	704.2	702.2	700.4	702.2	704.2	704.6	704.8	705.0	705.1	709.1	717.2
172.5°	705.0	704.6	704.2	704.6	705.0	705.1	705.1	705.1	705.1	708.2	714.6
175°	709.4	709.4	709.4	709.4	709.4	709.4	707.9	706.0	705.1	707.1	711.2
177.5°	709.4	709.4	709.4	709.4	709.4	709.4	708.3	706.9	706.1	707.7	710.9
180°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4



TEST NUMBER: P934221
 CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5
2.5°	1580.2	1575.6	1581.7	1564.7	1581.7	1575.6	1580.2	1591.1	1581.7	1588.0	1594.1
5°	1386.5	1378.8	1354.0	1333.9	1354.0	1378.8	1386.5	1419.1	1434.6	1462.5	1499.7
7.5°	1239.4	1233.2	1227.0	1214.6	1227.0	1233.2	1239.4	1248.6	1264.2	1288.9	1316.9
10°	1206.8	1208.4	1217.7	1216.1	1217.7	1208.4	1206.8	1203.7	1199.1	1203.7	1220.8
12.5°	1290.5	1304.5	1355.6	1352.4	1355.6	1304.5	1290.5	1228.5	1186.7	1178.9	1182.0
15°	1386.5	1391.2	1402.0	1403.6	1402.0	1391.2	1386.5	1361.7	1236.2	1182.0	1165.0
17.5°	1395.9	1397.4	1405.1	1405.1	1405.1	1397.4	1395.9	1385.0	1343.2	1270.3	1174.3
20°	1388.1	1391.2	1406.7	1409.8	1406.7	1391.2	1388.1	1374.1	1350.9	1324.6	1251.8
22.5°	1385.0	1391.2	1403.6	1402.0	1403.6	1391.2	1385.0	1363.3	1343.2	1324.6	1295.1
25°	1369.5	1369.5	1371.1	1372.6	1371.1	1369.5	1369.5	1352.4	1312.2	1307.5	1290.5
27.5°	1337.0	1340.0	1349.3	1347.8	1349.3	1340.0	1337.0	1330.8	1287.4	1282.7	1270.3
30°	1307.5	1304.5	1296.7	1290.5	1296.7	1304.5	1307.5	1298.2	1254.9	1242.5	1245.6
32.5°	1257.9	1250.2	1242.5	1237.9	1242.5	1250.2	1257.9	1254.9	1222.3	1205.3	1208.4
35°	1199.1	1200.7	1199.1	1194.4	1199.1	1200.7	1199.1	1202.2	1182.0	1166.6	1165.0
37.5°	1157.2	1160.4	1158.8	1152.6	1158.8	1160.4	1157.2	1154.2	1126.3	1121.7	1124.7
40°	1113.9	1115.4	1113.9	1109.3	1113.9	1115.4	1113.9	1107.6	1069.0	1070.5	1081.3
42.5°	1072.1	1070.5	1065.8	1062.8	1065.8	1070.5	1072.1	1062.8	1013.2	1008.5	1028.6
45°	1024.0	1025.6	1016.2	1011.6	1016.2	1025.6	1024.0	1017.9	966.7	954.3	968.3
47.5°	976.0	976.0	968.3	963.6	968.3	976.0	976.0	968.3	914.1	901.7	909.4
50°	924.8	923.3	912.4	910.9	912.4	923.3	924.8	920.2	862.9	852.1	852.1
52.5°	866.0	866.0	867.6	870.6	867.6	866.0	866.0	867.6	816.4	805.6	802.5
55°	814.9	816.4	827.3	830.4	827.3	816.4	814.9	814.9	768.4	757.5	751.4
57.5°	762.2	762.2	769.9	769.9	769.9	762.2	762.2	759.1	714.2	704.9	701.8
60°	701.8	704.9	711.1	709.6	711.1	704.9	701.8	698.7	660.0	653.7	643.0
62.5°	638.3	641.4	643.0	639.8	643.0	641.4	638.3	629.0	605.8	601.1	587.1
65°	571.6	574.7	576.3	573.2	576.3	574.7	571.6	567.0	549.9	542.2	529.8
67.5°	503.5	502.0	500.4	506.6	500.4	502.0	503.5	497.3	486.5	480.2	463.2
70°	433.7	433.7	432.2	435.4	432.2	433.7	433.7	429.1	423.0	418.3	402.8
72.5°	359.4	357.9	364.1	359.4	364.1	357.9	359.4	357.9	354.7	350.1	334.6
75°	286.6	289.7	286.6	291.2	286.6	289.7	286.6	288.1	286.6	283.5	272.7
77.5°	218.4	221.5	218.4	218.4	218.4	221.5	218.4	220.0	220.0	220.0	210.7
80°	154.9	153.4	153.4	151.8	153.4	153.4	154.9	154.9	156.5	153.4	150.3
82.5°	99.2	97.6	97.6	100.7	97.6	97.6	99.2	100.7	97.6	97.6	97.6
85°	54.2	55.7	52.7	52.7	52.7	55.7	54.2	51.1	54.2	54.2	52.7
87.5°	20.2	18.6	18.6	18.6	18.6	18.6	20.2	21.7	21.7	21.7	23.3
90°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	24.1	32.2	36.2	31.1
92.5°	90.5	86.9	72.5	58.1	72.5	86.9	90.5	128.2	178.6	203.7	178.9
95°	307.1	296.1	252.6	209.0	252.6	296.1	307.1	403.2	531.5	595.6	503.0
97.5°	708.9	688.2	605.2	522.3	605.2	688.2	708.9	769.7	850.8	891.3	736.9
100°	995.5	970.8	872.0	773.2	872.0	970.8	995.5	991.1	985.1	982.2	810.9
102.5°	1240.2	1219.1	1134.4	1049.8	1134.4	1219.1	1240.2	1162.8	1059.5	1007.9	834.2
105°	1525.9	1514.5	1469.1	1423.6	1469.1	1514.5	1525.9	1352.3	1120.8	1005.1	836.8
107.5°	1674.5	1677.3	1688.2	1699.2	1688.2	1677.3	1674.5	1432.4	1109.4	947.9	799.6
110°	1712.6	1724.4	1771.8	1819.2	1771.8	1724.4	1712.6	1441.8	1080.8	900.4	766.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1688.3	1706.5	1779.3	1852.1	1779.3	1706.5	1688.3	1411.2	1041.7	857.0	737.7
115°	1605.9	1631.2	1732.1	1833.1	1732.1	1631.2	1605.9	1339.0	983.1	805.1	704.7
117.5°	1492.1	1520.1	1632.0	1744.0	1632.0	1520.1	1492.1	1251.2	930.0	769.4	684.0
120°	1415.5	1442.7	1551.5	1660.2	1551.5	1442.7	1415.5	1195.3	901.9	755.1	677.1
122.5°	1338.8	1365.6	1472.9	1580.2	1472.9	1365.6	1338.8	1140.6	876.3	744.1	673.4
125°	1237.4	1262.1	1360.9	1459.8	1360.9	1262.1	1237.4	1069.0	844.5	732.3	670.4
127.5°	1156.0	1176.9	1260.2	1343.6	1260.2	1176.9	1156.0	1011.4	818.7	722.3	668.6
130°	1104.6	1123.8	1200.9	1277.9	1200.9	1123.8	1104.6	975.9	804.3	718.5	669.7
132.5°	1060.8	1078.0	1147.0	1216.0	1147.0	1078.0	1060.8	945.6	791.9	715.1	670.4
135°	998.9	1013.8	1073.2	1132.7	1073.2	1013.8	998.9	902.4	773.8	709.4	669.7
137.5°	953.2	965.3	1014.0	1062.7	1014.0	965.3	953.2	871.6	762.8	708.5	673.9
140°	916.5	927.9	973.4	1018.9	973.4	927.9	916.5	846.1	752.1	705.1	674.5
142.5°	890.8	900.6	939.8	978.9	939.8	900.6	890.8	828.9	746.4	705.1	677.0
145°	852.2	859.6	889.3	918.9	889.3	859.6	852.2	801.6	734.1	700.4	677.0
147.5°	819.9	826.1	850.5	875.1	850.5	826.1	819.9	780.1	727.0	700.4	681.7
150°	801.3	806.3	826.1	846.1	826.1	806.3	801.3	767.6	722.8	700.4	684.1
152.5°	786.6	790.3	805.3	820.4	805.3	790.3	786.6	757.8	719.6	700.4	685.7
155°	768.9	771.4	781.4	791.3	781.4	771.4	768.9	746.1	715.6	700.4	689.2
157.5°	753.7	755.4	762.4	769.4	762.4	755.4	753.7	735.9	712.2	700.4	692.7
160°	746.1	747.1	751.1	755.1	751.1	747.1	746.1	730.8	710.6	700.4	694.2
162.5°	738.9	739.8	743.7	747.5	743.7	739.8	738.9	726.0	708.9	700.4	695.9
165°	728.0	729.0	733.0	737.0	733.0	729.0	728.0	718.8	706.6	700.4	698.4
167.5°	723.2	723.6	725.3	727.0	725.3	723.6	723.2	717.2	709.1	705.1	703.4
170°	723.2	723.2	723.2	723.2	723.2	723.2	723.2	717.2	709.1	705.1	705.0
172.5°	719.4	719.0	717.6	716.1	717.6	719.0	719.4	714.6	708.2	705.1	705.1
175°	714.2	714.2	714.2	714.2	714.2	714.2	714.2	711.2	707.1	705.1	706.0
177.5°	713.3	712.8	711.1	709.4	711.1	712.8	713.3	710.9	707.7	706.1	706.9
180°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1637.5	1637.5	1637.5	1637.5	1637.5
2.5°	1617.4	1625.1	1629.8	1635.9	1651.4
5°	1555.4	1584.8	1594.1	1617.4	1645.3
7.5°	1419.1	1508.9	1533.7	1589.5	1632.9
10°	1287.4	1377.2	1420.6	1552.3	1617.4
12.5°	1220.8	1273.4	1302.9	1487.3	1595.7
15°	1178.9	1216.1	1237.9	1400.5	1570.9
17.5°	1146.4	1172.8	1188.3	1315.3	1536.8
20°	1126.3	1138.7	1152.6	1253.3	1498.1
22.5°	1112.3	1104.6	1115.4	1209.9	1445.4
25°	1103.0	1073.6	1086.0	1175.9	1383.5
27.5°	1110.8	1045.7	1050.4	1144.8	1318.4
30°	1112.3	1011.6	1013.2	1112.3	1245.6
32.5°	1101.5	976.0	977.5	1072.1	1163.5
35°	1075.2	934.2	932.6	1025.6	1051.9
37.5°	1039.5	889.3	889.3	974.4	929.5
40°	996.1	844.3	849.0	907.8	821.1
42.5°	943.5	796.3	802.5	819.5	740.5
45°	886.1	749.8	754.4	692.5	678.5
47.5°	822.6	701.8	703.3	574.7	658.4
50°	746.7	652.2	646.0	492.6	656.9
52.5°	680.1	598.0	579.4	446.1	596.4
55°	615.0	540.7	500.4	410.6	553.1
57.5°	557.7	466.3	427.6	368.7	543.8
60°	505.0	393.5	364.1	323.8	498.9
62.5°	461.7	339.3	333.1	292.8	452.4
65°	415.2	302.1	300.5	266.5	384.2
67.5°	370.3	277.3	275.7	241.7	292.8
70°	322.2	250.9	247.9	215.4	216.9
72.5°	272.7	221.5	218.4	193.7	179.7
75°	223.1	187.4	185.9	168.9	145.6
77.5°	175.1	148.7	151.8	136.4	106.9
80°	125.5	108.4	111.6	97.6	80.5
82.5°	83.6	71.3	74.4	62.0	54.2
85°	46.5	40.3	41.8	32.6	24.8
87.5°	21.7	18.6	18.6	12.4	7.8
90°	20.9	13.3	12.4	8.5	4.8
92.5°	129.1	91.9	83.8	51.4	19.0
95°	317.9	179.0	164.2	105.0	45.7
97.5°	428.2	196.7	183.6	131.3	79.0
100°	468.3	211.4	199.5	152.2	104.7
102.5°	486.7	226.1	215.1	170.9	126.7
105°	500.3	248.0	238.6	201.2	163.8
107.5°	503.0	280.4	271.7	236.8	201.9
110°	499.1	298.5	290.7	259.1	227.6



TEST NUMBER: P934221

CATALOG NUMBER: SQ4-FA-050U-050D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	499.3	320.4	312.9	282.8	252.8
115°	503.9	353.3	346.3	318.6	290.9
117.5°	513.2	385.2	378.8	353.7	328.5
120°	520.8	403.7	397.8	374.1	350.4
122.5°	531.8	425.7	419.6	395.8	371.8
125°	546.6	453.8	448.3	426.5	404.7
127.5°	561.3	480.9	475.4	453.4	431.4
130°	572.1	499.0	493.0	469.4	445.7
132.5°	580.9	513.7	507.8	484.1	460.4
135°	590.4	530.8	525.4	503.9	482.3
137.5°	604.7	552.8	547.5	526.1	504.7
140°	613.4	567.5	562.6	542.9	523.2
142.5°	620.7	578.5	574.0	555.7	537.5
145°	630.2	595.1	591.1	575.3	559.4
147.5°	644.2	616.1	612.2	596.8	581.4
150°	651.5	627.0	623.5	609.5	595.6
152.5°	656.3	634.2	631.6	620.9	610.4
155°	666.7	649.9	648.0	640.1	632.2
157.5°	677.2	665.6	663.7	656.1	648.5
160°	682.0	672.7	671.3	665.4	659.4
162.5°	687.1	680.4	679.3	674.8	670.4
165°	694.3	691.3	690.3	686.3	682.3
167.5°	700.0	697.5	697.0	695.1	693.2
170°	704.8	704.6	704.2	702.2	700.4
172.5°	705.1	705.1	705.0	704.6	704.2
175°	707.9	709.4	709.4	709.4	709.4
177.5°	708.3	709.4	709.4	709.4	709.4
180°	709.4	709.4	709.4	709.4	709.4



TEST NUMBER: P934221
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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	10.26	11.11	11.24	12.09	13.39	13.11	13.96	14.09	14.95	16.24
	3H	10.74	11.49	11.72	12.49	13.81	14.46	15.22	15.45	16.22	17.54
	4H	10.93	11.64	11.93	12.64	13.97	14.91	15.63	15.91	16.63	17.96
	6H	11.05	11.71	12.06	12.71	14.05	15.20	15.86	16.21	16.87	18.21
	8H	11.05	11.67	12.06	12.70	14.03	15.28	15.91	16.29	16.93	18.27
	12H	11.02	11.61	12.04	12.63	13.99	15.32	15.92	16.34	16.93	18.29
4H	2H	11.30	12.01	12.30	13.01	14.34	13.52	14.24	14.52	15.24	16.56
	3H	12.32	12.92	13.34	13.95	15.29	15.03	15.63	16.04	16.66	18.00
	4H	12.60	13.14	13.62	14.17	15.53	15.56	16.11	16.58	17.13	18.49
	6H	12.72	13.19	13.76	14.24	15.60	15.93	16.40	16.96	17.45	18.81
	8H	12.73	13.17	13.76	14.20	15.58	16.04	16.48	17.07	17.52	18.89
	12H	12.69	13.09	13.75	14.14	15.53	16.10	16.50	17.15	17.55	18.93
8H	4H	13.05	13.49	14.09	14.53	15.91	15.68	16.12	16.72	17.16	18.54
	6H	13.32	13.68	14.37	14.76	16.13	16.13	16.49	17.18	17.57	18.94
	8H	13.36	13.68	14.42	14.74	16.13	16.28	16.60	17.35	17.66	19.06
	12H	13.34	13.62	14.41	14.68	16.12	16.38	16.66	17.45	17.72	19.16
12H	4H	13.06	13.46	14.11	14.51	15.89	15.65	16.04	16.70	17.10	18.48
	6H	13.38	13.70	14.44	14.76	16.15	16.12	16.44	17.19	17.51	18.90
	8H	13.44	13.72	14.51	14.78	16.22	16.29	16.57	17.36	17.63	19.06