

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: P933821

Luminaire Tested: SQ4-FA-025U-050D-927-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933821
REPORT IS A COMBINATION OF REPORTS P933673 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-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

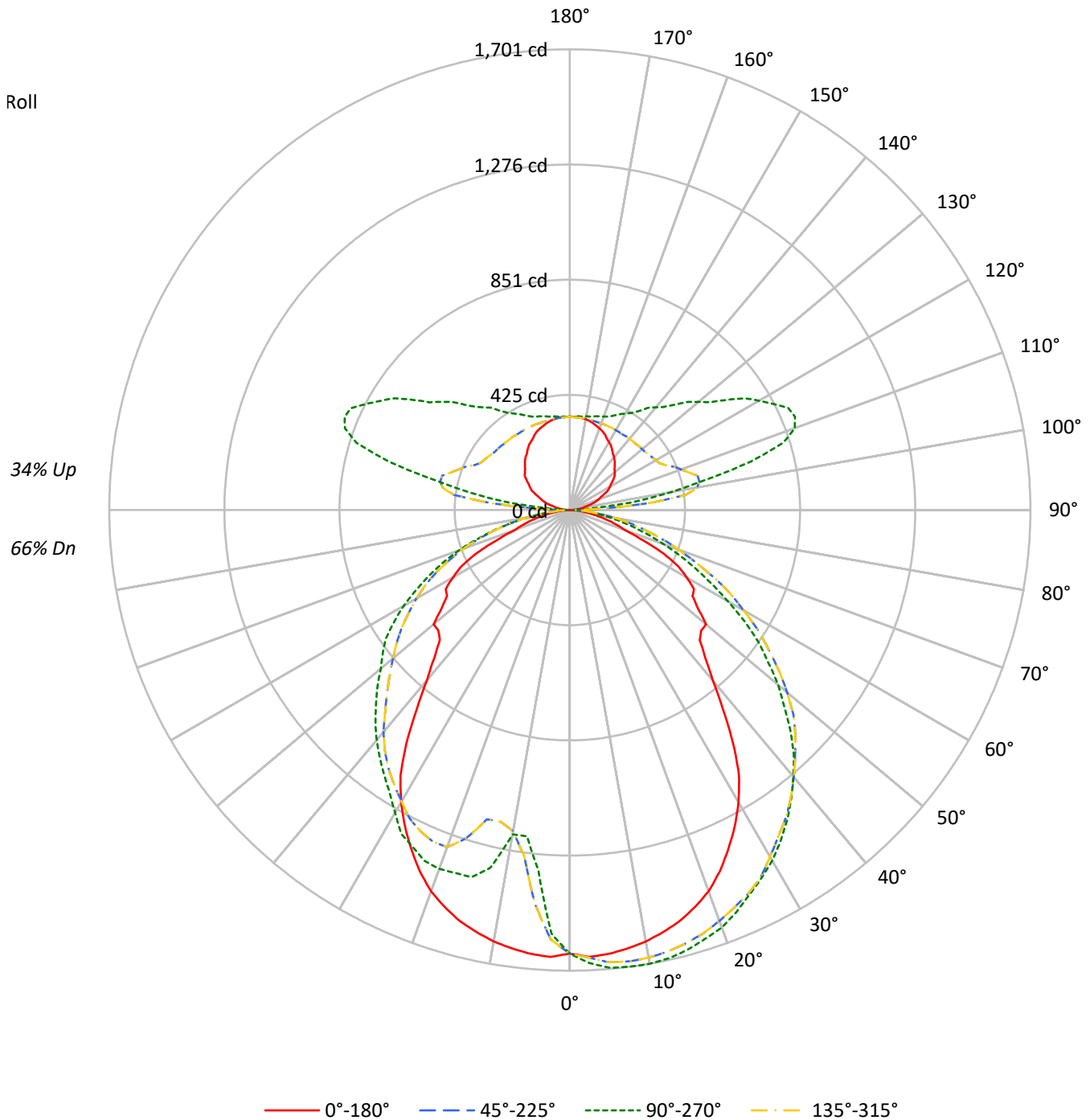
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6481.8 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: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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	2.3
10°-20°	419.7	6.5
20°-30°	648.8	10.0
30°-40°	774.5	11.9
40°-50°	779.0	12.0
50°-60°	677.8	10.5
60°-70°	480.6	7.4
70°-80°	254.3	3.9
80°-90°	64.6	1.0
90°-100°	168.0	2.6
100°-110°	441.8	6.8
110°-120°	458.1	7.1
120°-130°	367.4	5.7
130°-140°	288.3	4.4
140°-150°	221.3	3.4
150°-160°	159.4	2.5
160°-170°	97.5	1.5
170°-180°	32.9	0.5
0°-30°	1216.3	18.8
0°-40°	1990.7	30.7
0°-60°	3447.6	53.2
0°-90°	4247.1	65.5
90°-120°	1067.9	16.5
90°-150°	1944.9	30.0
90°-180°	2235.0	34.5
0°-180°	6481.8	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°	2	9	2	9	2	3
95°	22	102	22	102	22	25
105°	80	692	80	692	80	84
115°	141	891	141	891	141	140
125°	197	709	197	709	197	175
135°	234	550	234	550	234	181
145°	272	446	272	446	272	170
155°	307	384	307	384	307	141
165°	332	358	332	358	332	94
175°	345	347	345	347	345	33
180°	345	345	345	345	345	



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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°	2.3	4.2	6.0	6.5	10.2	15.1	17.6	15.6	11.7	8.8	8.8
92.5°	9.2	24.9	40.7	44.7	62.8	86.9	99.0	86.8	62.3	44.0	42.2
95°	22.2	51.0	79.8	87.0	154.5	244.5	289.4	258.3	196.0	149.2	143.9
97.5°	38.4	63.8	89.2	95.6	208.1	358.1	433.1	413.4	374.1	344.5	334.4
100°	50.9	73.9	96.9	102.7	227.6	394.1	477.3	478.8	481.6	483.8	471.8
102.5°	61.5	83.0	104.5	109.9	236.5	405.4	489.8	514.9	565.0	602.7	592.4
105°	79.6	97.8	116.0	120.5	243.2	406.6	488.4	544.6	657.1	741.5	736.0
107.5°	98.1	115.0	132.1	136.3	244.4	388.5	460.6	539.1	696.0	813.7	815.0
110°	110.6	125.9	141.2	145.1	242.6	372.5	437.5	525.2	700.6	832.2	838.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	122.9	137.4	152.1	155.7	242.6	358.5	416.5	506.3	685.8	820.4	829.3
115°	141.4	154.8	168.3	171.7	244.9	342.4	391.2	477.7	650.6	780.4	792.6
117.5°	159.6	171.9	184.1	187.2	249.4	332.4	373.9	452.0	608.1	725.1	738.7
120°	170.2	181.8	193.3	196.2	253.1	328.9	366.9	438.2	580.9	687.8	701.1
122.5°	180.7	192.3	203.9	206.8	258.4	327.2	361.6	425.8	554.2	650.6	663.6
125°	196.7	207.3	217.9	220.5	265.7	325.8	355.8	410.3	519.4	601.3	613.3
127.5°	209.6	220.3	231.0	233.7	272.8	324.9	351.0	397.8	491.5	561.7	571.9
130°	216.5	228.1	239.6	242.5	278.0	325.4	349.1	390.9	474.2	536.8	546.2
132.5°	223.8	235.2	246.8	249.6	282.3	325.8	347.5	384.8	459.5	515.5	523.9
135°	234.4	244.9	255.3	258.0	286.9	325.5	344.7	376.0	438.5	485.4	492.6
137.5°	245.2	255.6	266.0	268.6	293.8	327.5	344.3	370.7	423.5	463.2	469.1
140°	254.3	263.8	273.4	275.8	298.1	327.8	342.7	365.4	411.1	445.4	450.9
142.5°	261.2	270.0	278.9	281.1	301.6	328.9	342.7	362.7	402.8	432.9	437.7
145°	271.9	279.6	287.3	289.2	306.2	328.9	340.3	356.7	389.5	414.1	417.7
147.5°	282.5	290.0	297.5	299.4	313.0	331.3	340.3	353.3	379.1	398.4	401.4
150°	289.4	296.2	303.0	304.7	316.5	332.4	340.3	351.3	373.1	389.4	391.8
152.5°	296.6	301.8	306.8	308.2	318.9	333.2	340.3	349.7	368.3	382.2	384.1
155°	307.2	311.0	314.9	315.8	323.9	334.9	340.3	347.7	362.6	373.7	374.9
157.5°	315.1	318.8	322.6	323.5	329.1	336.6	340.3	346.1	357.6	366.2	367.1
160°	320.5	323.3	326.2	326.9	331.4	337.3	340.3	345.3	355.1	362.5	363.0
162.5°	325.8	327.9	330.1	330.6	333.9	338.2	340.3	344.5	352.8	359.1	359.5
165°	331.6	333.5	335.5	336.0	337.4	339.3	340.3	343.3	349.3	353.7	354.2
167.5°	336.9	337.8	338.7	339.0	340.2	341.8	342.7	344.6	348.5	351.4	351.7
170°	340.3	341.3	342.2	342.4	342.5	342.6	342.7	344.6	348.5	351.4	351.4
172.5°	342.2	342.4	342.6	342.7	342.7	342.7	342.7	344.2	347.3	349.6	349.4
175°	344.7	344.7	344.7	344.7	344.0	343.1	342.7	343.7	345.6	347.0	347.0
177.5°	344.7	344.7	344.7	344.7	344.2	343.5	343.1	343.9	345.4	346.6	346.3
180°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7



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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°	8.8	8.8	8.8	8.8	8.8	11.7	15.6	17.6	15.1	10.2	6.5
92.5°	35.3	28.3	35.3	42.2	44.0	62.3	86.8	99.0	86.9	62.8	44.7
95°	122.7	101.6	122.7	143.9	149.2	196.0	258.3	289.4	244.5	154.5	87.0
97.5°	294.1	253.8	294.1	334.4	344.5	374.1	413.4	433.1	358.1	208.1	95.6
100°	423.8	375.8	423.8	471.8	483.8	481.6	478.8	477.3	394.1	227.6	102.7
102.5°	551.2	510.1	551.2	592.4	602.7	565.0	514.9	489.8	405.4	236.5	109.9
105°	713.9	691.8	713.9	736.0	741.5	657.1	544.6	488.4	406.6	243.2	120.5
107.5°	820.4	825.7	820.4	815.0	813.7	696.0	539.1	460.6	388.5	244.4	136.3
110°	861.0	884.0	861.0	838.0	832.2	700.6	525.2	437.5	372.5	242.6	145.1



TEST NUMBER: P933821

CATALOG NUMBER: SQ4-FA-025U-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°	864.6	900.0	864.6	829.3	820.4	685.8	506.3	416.5	358.5	242.6	155.7
115°	841.7	890.7	841.7	792.6	780.4	650.6	477.7	391.2	342.4	244.9	171.7
117.5°	793.1	847.5	793.1	738.7	725.1	608.1	452.0	373.9	332.4	249.4	187.2
120°	753.9	806.7	753.9	701.1	687.8	580.9	438.2	366.9	328.9	253.1	196.2
122.5°	715.8	767.9	715.8	663.6	650.6	554.2	425.8	361.6	327.2	258.4	206.8
125°	661.3	709.3	661.3	613.3	601.3	519.4	410.3	355.8	325.8	265.7	220.5
127.5°	612.4	652.9	612.4	571.9	561.7	491.5	397.8	351.0	324.9	272.8	233.7
130°	583.6	621.0	583.6	546.2	536.8	474.2	390.9	349.1	325.4	278.0	242.5
132.5°	557.4	590.9	557.4	523.9	515.5	459.5	384.8	347.5	325.8	282.3	249.6
135°	521.5	550.4	521.5	492.6	485.4	438.5	376.0	344.7	325.5	286.9	258.0
137.5°	492.7	516.4	492.7	469.1	463.2	423.5	370.7	344.3	327.5	293.8	268.6
140°	473.0	495.1	473.0	450.9	445.4	411.1	365.4	342.7	327.8	298.1	275.8
142.5°	456.7	475.7	456.7	437.7	432.9	402.8	362.7	342.7	328.9	301.6	281.1
145°	432.1	446.5	432.1	417.7	414.1	389.5	356.7	340.3	328.9	306.2	289.2
147.5°	413.3	425.3	413.3	401.4	398.4	379.1	353.3	340.3	331.3	313.0	299.4
150°	401.5	411.1	401.5	391.8	389.4	373.1	351.3	340.3	332.4	316.5	304.7
152.5°	391.3	398.6	391.3	384.1	382.2	368.3	349.7	340.3	333.2	318.9	308.2
155°	379.7	384.5	379.7	374.9	373.7	362.6	347.7	340.3	334.9	323.9	315.8
157.5°	370.5	373.9	370.5	367.1	366.2	357.6	346.1	340.3	336.6	329.1	323.5
160°	365.0	366.9	365.0	363.0	362.5	355.1	345.3	340.3	337.3	331.4	326.9
162.5°	361.4	363.2	361.4	359.5	359.1	352.8	344.5	340.3	338.2	333.9	330.6
165°	356.2	358.1	356.2	354.2	353.7	349.3	343.3	340.3	339.3	337.4	336.0
167.5°	352.4	353.3	352.4	351.7	351.4	348.5	344.6	342.7	341.8	340.2	339.0
170°	351.4	351.4	351.4	351.4	351.4	348.5	344.6	342.7	342.6	342.5	342.4
172.5°	348.7	348.0	348.7	349.4	349.6	347.3	344.2	342.7	342.7	342.7	342.7
175°	347.0	347.0	347.0	347.0	347.0	345.6	343.7	342.7	343.1	344.0	344.7
177.5°	345.6	344.7	345.6	346.3	346.6	345.4	343.9	343.1	343.5	344.2	344.7
180°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7



TEST NUMBER: P933821

CATALOG NUMBER: SQ4-FA-025U-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°	6.0	4.2	2.3	4.2	6.0	6.5	10.2	15.1	17.6	15.6	11.7
92.5°	40.7	24.9	9.2	24.9	40.7	44.7	62.8	86.9	99.0	86.8	62.3
95°	79.8	51.0	22.2	51.0	79.8	87.0	154.5	244.5	289.4	258.3	196.0
97.5°	89.2	63.8	38.4	63.8	89.2	95.6	208.1	358.1	433.1	413.4	374.1
100°	96.9	73.9	50.9	73.9	96.9	102.7	227.6	394.1	477.3	478.8	481.6
102.5°	104.5	83.0	61.5	83.0	104.5	109.9	236.5	405.4	489.8	514.9	565.0
105°	116.0	97.8	79.6	97.8	116.0	120.5	243.2	406.6	488.4	544.6	657.1
107.5°	132.1	115.0	98.1	115.0	132.1	136.3	244.4	388.5	460.6	539.1	696.0
110°	141.2	125.9	110.6	125.9	141.2	145.1	242.6	372.5	437.5	525.2	700.6



TEST NUMBER: P933821

CATALOG NUMBER: SQ4-FA-025U-050D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	152.1	137.4	122.9	137.4	152.1	155.7	242.6	358.5	416.5	506.3	685.8
115°	168.3	154.8	141.4	154.8	168.3	171.7	244.9	342.4	391.2	477.7	650.6
117.5°	184.1	171.9	159.6	171.9	184.1	187.2	249.4	332.4	373.9	452.0	608.1
120°	193.3	181.8	170.2	181.8	193.3	196.2	253.1	328.9	366.9	438.2	580.9
122.5°	203.9	192.3	180.7	192.3	203.9	206.8	258.4	327.2	361.6	425.8	554.2
125°	217.9	207.3	196.7	207.3	217.9	220.5	265.7	325.8	355.8	410.3	519.4
127.5°	231.0	220.3	209.6	220.3	231.0	233.7	272.8	324.9	351.0	397.8	491.5
130°	239.6	228.1	216.5	228.1	239.6	242.5	278.0	325.4	349.1	390.9	474.2
132.5°	246.8	235.2	223.8	235.2	246.8	249.6	282.3	325.8	347.5	384.8	459.5
135°	255.3	244.9	234.4	244.9	255.3	258.0	286.9	325.5	344.7	376.0	438.5
137.5°	266.0	255.6	245.2	255.6	266.0	268.6	293.8	327.5	344.3	370.7	423.5
140°	273.4	263.8	254.3	263.8	273.4	275.8	298.1	327.8	342.7	365.4	411.1
142.5°	278.9	270.0	261.2	270.0	278.9	281.1	301.6	328.9	342.7	362.7	402.8
145°	287.3	279.6	271.9	279.6	287.3	289.2	306.2	328.9	340.3	356.7	389.5
147.5°	297.5	290.0	282.5	290.0	297.5	299.4	313.0	331.3	340.3	353.3	379.1
150°	303.0	296.2	289.4	296.2	303.0	304.7	316.5	332.4	340.3	351.3	373.1
152.5°	306.8	301.8	296.6	301.8	306.8	308.2	318.9	333.2	340.3	349.7	368.3
155°	314.9	311.0	307.2	311.0	314.9	315.8	323.9	334.9	340.3	347.7	362.6
157.5°	322.6	318.8	315.1	318.8	322.6	323.5	329.1	336.6	340.3	346.1	357.6
160°	326.2	323.3	320.5	323.3	326.2	326.9	331.4	337.3	340.3	345.3	355.1
162.5°	330.1	327.9	325.8	327.9	330.1	330.6	333.9	338.2	340.3	344.5	352.8
165°	335.5	333.5	331.6	333.5	335.5	336.0	337.4	339.3	340.3	343.3	349.3
167.5°	338.7	337.8	336.9	337.8	338.7	339.0	340.2	341.8	342.7	344.6	348.5
170°	342.2	341.3	340.3	341.3	342.2	342.4	342.5	342.6	342.7	344.6	348.5
172.5°	342.6	342.4	342.2	342.4	342.6	342.7	342.7	342.7	342.7	344.2	347.3
175°	344.7	344.7	344.7	344.7	344.7	344.7	344.0	343.1	342.7	343.7	345.6
177.5°	344.7	344.7	344.7	344.7	344.7	344.7	344.2	343.5	343.1	343.9	345.4
180°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7



TEST NUMBER: P933821

CATALOG NUMBER: SQ4-FA-025U-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°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	11.7	15.6	17.6	15.1
92.5°	44.0	42.2	35.3	28.3	35.3	42.2	44.0	62.3	86.8	99.0	86.9
95°	149.2	143.9	122.7	101.6	122.7	143.9	149.2	196.0	258.3	289.4	244.5
97.5°	344.5	334.4	294.1	253.8	294.1	334.4	344.5	374.1	413.4	433.1	358.1
100°	483.8	471.8	423.8	375.8	423.8	471.8	483.8	481.6	478.8	477.3	394.1
102.5°	602.7	592.4	551.2	510.1	551.2	592.4	602.7	565.0	514.9	489.8	405.4
105°	741.5	736.0	713.9	691.8	713.9	736.0	741.5	657.1	544.6	488.4	406.6
107.5°	813.7	815.0	820.4	825.7	820.4	815.0	813.7	696.0	539.1	460.6	388.5
110°	832.2	838.0	861.0	884.0	861.0	838.0	832.2	700.6	525.2	437.5	372.5



TEST NUMBER: P933821

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	820.4	829.3	864.6	900.0	864.6	829.3	820.4	685.8	506.3	416.5	358.5
115°	780.4	792.6	841.7	890.7	841.7	792.6	780.4	650.6	477.7	391.2	342.4
117.5°	725.1	738.7	793.1	847.5	793.1	738.7	725.1	608.1	452.0	373.9	332.4
120°	687.8	701.1	753.9	806.7	753.9	701.1	687.8	580.9	438.2	366.9	328.9
122.5°	650.6	663.6	715.8	767.9	715.8	663.6	650.6	554.2	425.8	361.6	327.2
125°	601.3	613.3	661.3	709.3	661.3	613.3	601.3	519.4	410.3	355.8	325.8
127.5°	561.7	571.9	612.4	652.9	612.4	571.9	561.7	491.5	397.8	351.0	324.9
130°	536.8	546.2	583.6	621.0	583.6	546.2	536.8	474.2	390.9	349.1	325.4
132.5°	515.5	523.9	557.4	590.9	557.4	523.9	515.5	459.5	384.8	347.5	325.8
135°	485.4	492.6	521.5	550.4	521.5	492.6	485.4	438.5	376.0	344.7	325.5
137.5°	463.2	469.1	492.7	516.4	492.7	469.1	463.2	423.5	370.7	344.3	327.5
140°	445.4	450.9	473.0	495.1	473.0	450.9	445.4	411.1	365.4	342.7	327.8
142.5°	432.9	437.7	456.7	475.7	456.7	437.7	432.9	402.8	362.7	342.7	328.9
145°	414.1	417.7	432.1	446.5	432.1	417.7	414.1	389.5	356.7	340.3	328.9
147.5°	398.4	401.4	413.3	425.3	413.3	401.4	398.4	379.1	353.3	340.3	331.3
150°	389.4	391.8	401.5	411.1	401.5	391.8	389.4	373.1	351.3	340.3	332.4
152.5°	382.2	384.1	391.3	398.6	391.3	384.1	382.2	368.3	349.7	340.3	333.2
155°	373.7	374.9	379.7	384.5	379.7	374.9	373.7	362.6	347.7	340.3	334.9
157.5°	366.2	367.1	370.5	373.9	370.5	367.1	366.2	357.6	346.1	340.3	336.6
160°	362.5	363.0	365.0	366.9	365.0	363.0	362.5	355.1	345.3	340.3	337.3
162.5°	359.1	359.5	361.4	363.2	361.4	359.5	359.1	352.8	344.5	340.3	338.2
165°	353.7	354.2	356.2	358.1	356.2	354.2	353.7	349.3	343.3	340.3	339.3
167.5°	351.4	351.7	352.4	353.3	352.4	351.7	351.4	348.5	344.6	342.7	341.8
170°	351.4	351.4	351.4	351.4	351.4	351.4	351.4	348.5	344.6	342.7	342.6
172.5°	349.6	349.4	348.7	348.0	348.7	349.4	349.6	347.3	344.2	342.7	342.7
175°	347.0	347.0	347.0	347.0	347.0	347.0	347.0	345.6	343.7	342.7	343.1
177.5°	346.6	346.3	345.6	344.7	345.6	346.3	346.6	345.4	343.9	343.1	343.5
180°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7



TEST NUMBER: P933821

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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°	10.2	6.5	6.0	4.2	2.3
92.5°	62.8	44.7	40.7	24.9	9.2
95°	154.5	87.0	79.8	51.0	22.2
97.5°	208.1	95.6	89.2	63.8	38.4
100°	227.6	102.7	96.9	73.9	50.9
102.5°	236.5	109.9	104.5	83.0	61.5
105°	243.2	120.5	116.0	97.8	79.6
107.5°	244.4	136.3	132.1	115.0	98.1
110°	242.6	145.1	141.2	125.9	110.6



TEST NUMBER: P933821

CATALOG NUMBER: SQ4-FA-025U-050D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	242.6	155.7	152.1	137.4	122.9
115°	244.9	171.7	168.3	154.8	141.4
117.5°	249.4	187.2	184.1	171.9	159.6
120°	253.1	196.2	193.3	181.8	170.2
122.5°	258.4	206.8	203.9	192.3	180.7
125°	265.7	220.5	217.9	207.3	196.7
127.5°	272.8	233.7	231.0	220.3	209.6
130°	278.0	242.5	239.6	228.1	216.5
132.5°	282.3	249.6	246.8	235.2	223.8
135°	286.9	258.0	255.3	244.9	234.4
137.5°	293.8	268.6	266.0	255.6	245.2
140°	298.1	275.8	273.4	263.8	254.3
142.5°	301.6	281.1	278.9	270.0	261.2
145°	306.2	289.2	287.3	279.6	271.9
147.5°	313.0	299.4	297.5	290.0	282.5
150°	316.5	304.7	303.0	296.2	289.4
152.5°	318.9	308.2	306.8	301.8	296.6
155°	323.9	315.8	314.9	311.0	307.2
157.5°	329.1	323.5	322.6	318.8	315.1
160°	331.4	326.9	326.2	323.3	320.5
162.5°	333.9	330.6	330.1	327.9	325.8
165°	337.4	336.0	335.5	333.5	331.6
167.5°	340.2	339.0	338.7	337.8	336.9
170°	342.5	342.4	342.2	341.3	340.3
172.5°	342.7	342.7	342.6	342.4	342.2
175°	344.0	344.7	344.7	344.7	344.7
177.5°	344.2	344.7	344.7	344.7	344.7
180°	344.7	344.7	344.7	344.7	344.7



TEST NUMBER: P933821
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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	13.63	14.66	14.62	15.64	15.43	16.48	17.51
	3H	12.26	13.18	13.08	14.02	15.08	15.99	16.90	16.81	17.74	18.80
	4H	12.46	13.32	13.30	14.17	15.24	16.44	17.31	17.28	18.16	19.23
	6H	12.58	13.38	13.44	14.24	15.32	16.74	17.54	17.59	18.40	19.48
	8H	12.59	13.35	13.45	14.23	15.31	16.82	17.58	17.68	18.46	19.54
	12H	12.57	13.29	13.44	14.16	15.27	16.87	17.59	17.74	18.46	19.57
4H	2H	12.83	13.69	13.67	14.54	15.61	15.05	15.91	15.89	16.76	17.83
	3H	13.87	14.59	14.73	15.47	16.56	16.58	17.30	17.43	18.18	19.27
	4H	14.15	14.81	15.02	15.69	16.80	17.11	17.77	17.99	18.65	19.76
	6H	14.29	14.85	15.17	15.76	16.87	17.49	18.06	18.38	18.97	20.08
	8H	14.30	14.82	15.18	15.72	16.85	17.61	18.14	18.50	19.04	20.17
	12H	14.27	14.75	15.18	15.67	16.80	17.68	18.15	18.59	19.07	20.21
8H	4H	14.62	15.15	15.51	16.05	17.18	17.25	17.78	18.14	18.68	19.81
	6H	14.89	15.33	15.81	16.27	17.40	17.70	18.14	18.62	19.08	20.21
	8H	14.93	15.32	15.86	16.26	17.40	17.86	18.25	18.78	19.18	20.33
	12H	14.93	15.27	15.85	16.19	17.39	17.97	18.31	18.90	19.24	20.43
12H	4H	14.64	15.11	15.54	16.03	17.17	17.22	17.70	18.13	18.62	19.75
	6H	14.95	15.34	15.88	16.28	17.42	17.70	18.09	18.62	19.02	20.17
	8H	15.03	15.37	15.96	16.30	17.49	17.87	18.21	18.80	19.14	20.34