

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: P934570

Luminaire Tested: SQ4-FA-050U-125D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934570
REPORT IS A COMBINATION OF REPORTS P933702 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

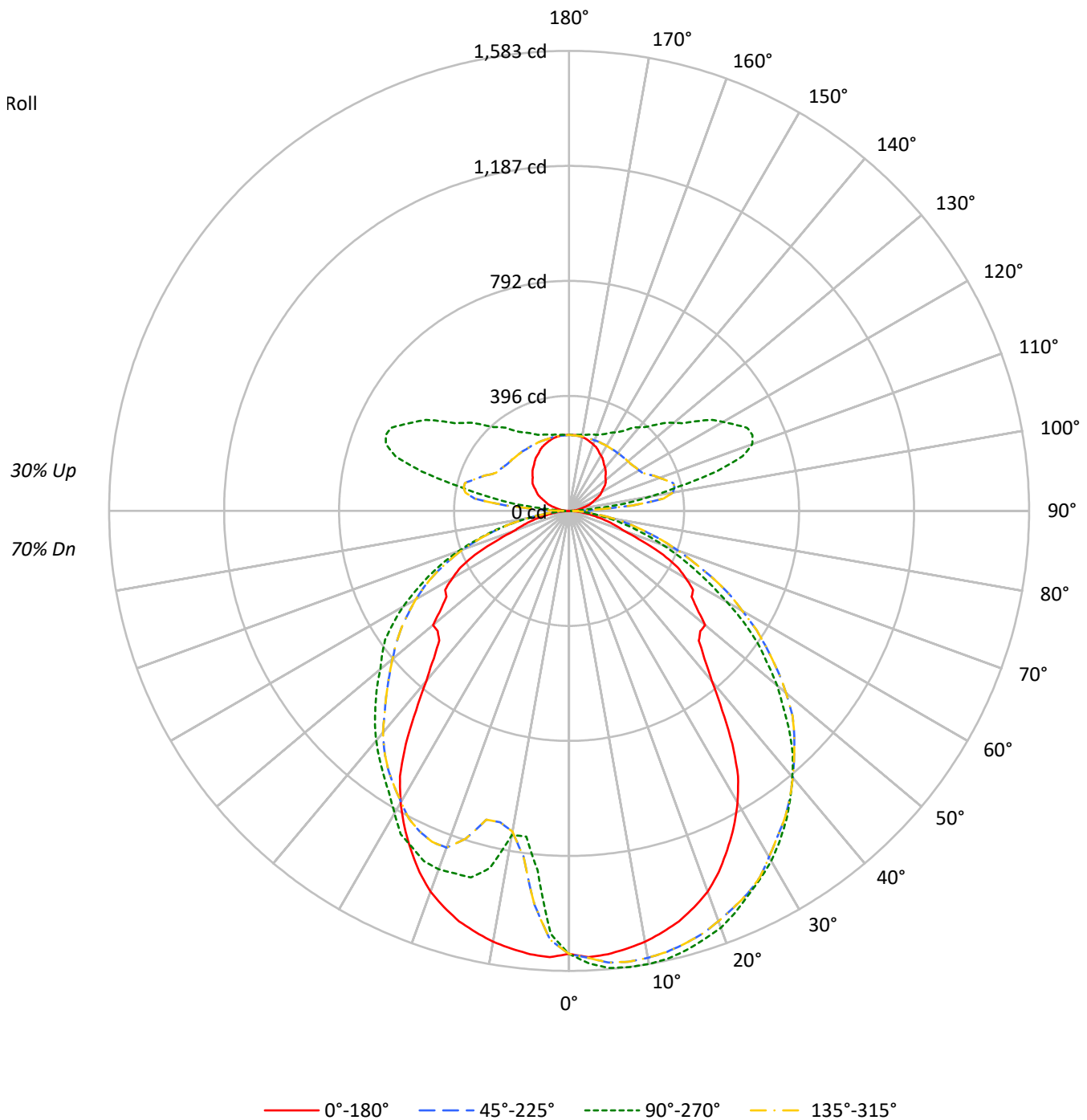
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5648.7 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14142	14142	14142	14142
5°	14232	14275	14232	11225
10°	14121	14062	14121	10054
15°	13951	13757	13951	11488
20°	13644	13397	13644	11512
25°	13030	12870	13030	11268
30°	12244	12433	12244	10733
35°	10899	11880	10899	10144
40°	9067	11230	9067	9699
45°	8085	10468	8085	9187
50°	8569	9559	8569	8674
55°	8041	8581	8041	8377
60°	8259	7287	8259	7673
65°	7452	6025	7452	6734
70°	5123	4801	5123	5644
75°	4447	3549	4447	4250
80°	3510	2347	3510	2555
85°	1913	1243	1913	1056

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12415 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	2.4
10°-20°	390.6	6.9
20°-30°	603.8	10.7
30°-40°	720.8	12.8
40°-50°	725.0	12.8
50°-60°	630.9	11.2
60°-70°	447.3	7.9
70°-80°	236.6	4.2
80°-90°	59.9	1.1
90°-100°	127.5	2.3
100°-110°	335.3	5.9
110°-120°	347.7	6.2
120°-130°	278.9	4.9
130°-140°	218.8	3.9
140°-150°	168.0	3.0
150°-160°	121.0	2.1
160°-170°	74.0	1.3
170°-180°	25.0	0.4
0°-30°	1132.0	20.0
0°-40°	1852.8	32.8
0°-60°	3208.7	56.8
0°-90°	3952.6	70.0
90°-120°	810.5	14.3
90°-150°	1476.2	26.1
90°-180°	1696.0	30.0
0°-180°	5648.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1524	1524	1524	1524	1524	
5°	1531	1579	1531	1241	1531	145
15°	1462	1564	1462	1306	1462	411
25°	1288	1459	1288	1278	1288	591
35°	979	1302	979	1112	979	606
45°	632	1073	632	942	632	506
55°	515	792	515	773	515	473
65°	358	477	358	534	358	342
75°	136	226	136	271	136	142
85°	23	58	23	49	23	31
90°	2	7	2	7	2	2
95°	17	77	17	77	17	19
105°	60	525	60	525	60	64
115°	107	676	107	676	107	106
125°	149	538	149	538	149	133
135°	178	418	178	418	178	138
145°	206	339	206	339	206	129
155°	233	292	233	292	233	107
165°	252	272	252	272	252	71
175°	262	263	262	263	262	25
180°	262	262	262	262	262	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1
2.5°	1537.0	1537.0	1545.7	1548.6	1548.6	1544.2	1539.9	1544.2	1557.2	1561.5	1560.1
5°	1531.2	1542.8	1558.6	1561.5	1564.4	1563.0	1560.1	1563.0	1577.4	1580.3	1581.7
7.5°	1519.7	1541.4	1561.5	1565.9	1570.2	1565.9	1564.4	1567.3	1581.7	1584.6	1584.6
10°	1505.3	1535.6	1558.6	1561.5	1565.9	1561.5	1561.5	1567.3	1581.7	1584.6	1586.1
12.5°	1485.1	1527.0	1548.6	1551.4	1557.2	1555.8	1554.3	1560.1	1574.5	1577.4	1577.4
15°	1462.0	1511.1	1531.2	1534.1	1544.2	1541.4	1541.4	1547.1	1563.0	1567.3	1565.9
17.5°	1430.3	1490.9	1513.9	1518.3	1525.5	1524.1	1525.5	1531.2	1545.7	1548.6	1550.0
20°	1394.3	1463.5	1490.9	1495.2	1502.4	1502.4	1502.4	1509.7	1524.1	1529.9	1529.9
22.5°	1345.2	1434.7	1463.5	1466.4	1475.0	1475.0	1477.9	1488.0	1501.0	1502.4	1502.4
25°	1287.5	1402.9	1427.4	1436.1	1444.7	1449.1	1453.4	1459.1	1463.5	1462.0	1463.5
27.5°	1227.1	1362.5	1394.3	1400.0	1411.6	1415.9	1421.6	1423.1	1424.5	1428.9	1426.0
30°	1159.2	1306.3	1353.9	1359.7	1378.5	1381.3	1375.6	1378.5	1385.6	1388.5	1391.4
32.5°	1082.8	1222.7	1312.1	1325.0	1342.4	1333.7	1332.3	1336.6	1348.1	1348.1	1351.0
35°	979.0	1157.8	1273.1	1284.7	1297.7	1287.5	1293.3	1294.8	1302.0	1306.3	1304.9
37.5°	865.1	1101.6	1232.8	1241.4	1251.5	1238.6	1247.2	1251.5	1257.3	1254.4	1254.4
40°	764.2	1013.6	1185.2	1191.0	1199.6	1189.6	1198.2	1201.1	1204.0	1201.1	1199.6
42.5°	689.2	917.0	1134.8	1141.9	1136.1	1143.4	1146.3	1152.1	1147.7	1141.9	1141.9
45°	631.5	891.1	1079.9	1088.6	1079.9	1091.5	1095.8	1095.8	1082.8	1079.9	1078.5
47.5°	612.8	839.1	1025.1	1025.1	1020.9	1035.3	1042.4	1032.4	1019.4	1015.1	1015.1
50°	611.3	781.5	950.2	944.4	964.6	981.9	974.7	964.6	954.5	938.6	938.6
52.5°	555.1	710.8	853.6	875.2	907.0	917.0	905.5	895.4	878.1	870.9	865.1
55°	514.8	637.3	765.6	808.9	842.0	855.0	833.4	823.3	797.4	793.0	790.1
57.5°	506.1	530.6	684.9	739.7	780.0	778.6	765.6	746.9	725.2	721.0	719.5
60°	464.3	383.6	598.4	663.3	705.0	700.8	689.2	671.9	651.7	648.8	646.0
62.5°	421.1	278.3	500.3	573.8	633.0	631.5	621.4	595.5	581.1	573.8	568.1
65°	357.6	233.6	356.1	477.3	562.3	565.2	543.6	524.8	509.0	500.3	498.8
67.5°	272.5	190.3	240.8	398.0	494.6	491.7	464.3	455.6	435.5	431.1	422.5
70°	201.8	126.9	167.2	323.0	428.2	421.1	399.4	389.3	370.5	360.5	354.7
72.5°	167.2	102.4	122.5	250.9	360.5	351.8	333.0	321.5	305.7	297.0	291.2
75°	135.6	108.1	93.7	186.0	292.7	287.0	269.7	258.1	245.1	233.6	235.0
77.5°	99.5	101.0	75.0	137.0	232.2	223.5	213.4	198.9	193.2	181.6	181.6
80°	75.0	79.3	56.2	93.7	167.2	167.2	158.6	148.5	138.4	132.7	132.7
82.5°	50.4	50.4	41.8	59.1	113.9	109.6	103.8	101.0	95.2	92.3	92.3
85°	23.1	28.8	26.0	36.0	62.0	64.9	64.9	62.0	60.6	57.7	59.1
87.5°	7.2	13.0	15.8	20.2	31.7	33.1	34.6	34.6	34.6	36.0	36.0
90°	1.8	3.2	4.6	4.9	7.8	11.5	13.4	11.8	8.9	6.6	6.6
92.5°	7.0	18.9	30.9	33.9	47.6	65.9	75.1	65.9	47.3	33.4	32.0
95°	16.9	38.7	60.6	66.0	117.2	185.5	219.6	196.0	148.7	113.2	109.2
97.5°	29.1	48.4	67.6	72.5	157.9	271.8	328.7	313.8	283.9	261.5	253.8
100°	38.6	56.1	73.6	78.0	172.7	299.1	362.3	363.4	365.6	367.2	358.1
102.5°	46.7	63.0	79.3	83.4	179.5	307.7	371.7	390.8	428.9	457.4	449.6
105°	60.4	74.2	88.0	91.5	184.5	308.7	370.7	413.4	498.8	562.8	558.7
107.5°	74.5	87.3	100.2	103.4	185.5	295.0	349.7	409.2	528.3	617.6	618.6
110°	83.9	95.5	107.2	110.1	184.1	282.8	332.1	398.7	531.8	631.7	636.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	93.2	104.3	115.4	118.2	184.1	272.1	316.1	384.3	520.5	622.7	629.5
115°	107.3	117.5	127.7	130.3	185.8	259.9	296.9	362.5	493.8	592.3	601.6
117.5°	121.2	130.4	139.7	142.0	189.3	252.3	283.8	343.0	461.4	550.3	560.6
120°	129.2	138.0	146.7	148.9	192.1	249.7	278.5	332.6	440.9	522.1	532.2
122.5°	137.2	146.0	154.8	157.0	196.1	248.4	274.4	323.2	420.7	493.8	503.7
125°	149.3	157.3	165.3	167.3	201.6	247.3	270.1	311.5	394.3	456.4	465.5
127.5°	159.1	167.2	175.3	177.4	207.0	246.7	266.4	301.9	373.0	426.3	434.0
130°	164.4	173.1	181.8	184.0	211.0	247.0	265.0	296.7	360.0	407.4	414.5
132.5°	169.8	178.6	187.3	189.5	214.3	247.3	263.8	292.1	348.7	391.2	397.6
135°	177.9	185.8	193.8	195.8	217.8	247.0	261.6	285.3	332.8	368.4	373.9
137.5°	186.2	194.0	201.9	203.9	223.1	248.5	261.3	281.3	321.5	351.5	356.1
140°	193.0	200.2	207.5	209.3	226.2	248.8	260.0	277.4	312.1	338.1	342.2
142.5°	198.3	205.0	211.6	213.3	228.9	249.6	260.0	275.3	305.7	328.5	332.1
145°	206.4	212.1	218.0	219.5	232.4	249.7	258.3	270.8	295.6	314.3	317.0
147.5°	214.4	220.2	225.8	227.2	237.6	251.4	258.3	268.1	287.7	302.4	304.7
150°	219.6	224.8	230.0	231.2	240.3	252.3	258.3	266.6	283.1	295.6	297.4
152.5°	225.1	229.0	232.9	233.9	242.1	252.9	258.3	265.4	279.5	290.1	291.5
155°	233.2	236.1	239.0	239.7	245.9	254.2	258.3	263.9	275.2	283.6	284.6
157.5°	239.2	242.0	244.8	245.5	249.7	255.4	258.3	262.7	271.4	278.0	278.7
160°	243.2	245.4	247.6	248.1	251.5	256.0	258.3	262.1	269.6	275.2	275.5
162.5°	247.3	248.9	250.5	250.9	253.4	256.7	258.3	261.5	267.8	272.6	272.9
165°	251.7	253.1	254.7	255.0	256.1	257.6	258.3	260.5	265.1	268.5	268.8
167.5°	255.7	256.4	257.0	257.2	258.2	259.4	260.0	261.6	264.5	266.8	266.9
170°	258.3	259.0	259.7	259.9	259.9	260.0	260.0	261.6	264.5	266.8	266.8
172.5°	259.7	259.9	260.0	260.0	260.0	260.0	260.0	261.2	263.5	265.3	265.1
175°	261.6	261.6	261.6	261.6	261.1	260.4	260.0	260.8	262.3	263.4	263.4
177.5°	261.6	261.6	261.6	261.6	261.2	260.7	260.5	261.1	262.2	263.1	262.9
180°	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1
2.5°	1563.0	1558.6	1563.0	1560.1	1561.5	1557.2	1544.2	1539.9	1544.2	1548.6	1548.6
5°	1581.7	1578.8	1581.7	1581.7	1580.3	1577.4	1563.0	1560.1	1563.0	1564.4	1561.5
7.5°	1587.4	1583.2	1587.4	1584.6	1584.6	1581.7	1567.3	1564.4	1565.9	1570.2	1565.9
10°	1587.4	1583.2	1587.4	1586.1	1584.6	1581.7	1567.3	1561.5	1561.5	1565.9	1561.5
12.5°	1580.3	1577.4	1580.3	1577.4	1577.4	1574.5	1560.1	1554.3	1555.8	1557.2	1551.4
15°	1568.7	1564.4	1568.7	1565.9	1567.3	1563.0	1547.1	1541.4	1541.4	1544.2	1534.1
17.5°	1551.4	1545.7	1551.4	1550.0	1548.6	1545.7	1531.2	1525.5	1524.1	1525.5	1518.3
20°	1531.2	1527.0	1531.2	1529.9	1529.9	1524.1	1509.7	1502.4	1502.4	1502.4	1495.2
22.5°	1499.5	1495.2	1499.5	1502.4	1502.4	1501.0	1488.0	1477.9	1475.0	1475.0	1466.4
25°	1463.5	1459.1	1463.5	1463.5	1462.0	1463.5	1459.1	1453.4	1449.1	1444.7	1436.1
27.5°	1428.9	1426.0	1428.9	1426.0	1428.9	1424.5	1423.1	1421.6	1415.9	1411.6	1400.0
30°	1394.3	1391.4	1394.3	1391.4	1388.5	1385.6	1378.5	1375.6	1381.3	1378.5	1359.7
32.5°	1351.0	1348.1	1351.0	1351.0	1348.1	1348.1	1336.6	1332.3	1333.7	1342.4	1325.0
35°	1306.3	1302.0	1306.3	1304.9	1306.3	1302.0	1294.8	1293.3	1287.5	1297.7	1284.7
37.5°	1254.4	1250.1	1254.4	1254.4	1254.4	1257.3	1251.5	1247.2	1238.6	1251.5	1241.4
40°	1201.1	1195.3	1201.1	1199.6	1201.1	1204.0	1201.1	1198.2	1189.6	1199.6	1191.0
42.5°	1140.5	1139.0	1140.5	1141.9	1141.9	1147.7	1152.1	1146.3	1143.4	1136.1	1141.9
45°	1075.6	1072.8	1075.6	1078.5	1079.9	1082.8	1095.8	1095.8	1091.5	1079.9	1088.6
47.5°	1006.4	999.2	1006.4	1015.1	1015.1	1019.4	1032.4	1042.4	1035.3	1020.9	1025.1
50°	932.9	934.3	932.9	938.6	938.6	954.5	964.6	974.7	981.9	964.6	944.4
52.5°	860.8	859.3	860.8	865.1	870.9	878.1	895.4	905.5	917.0	907.0	875.2
55°	788.7	791.6	788.7	790.1	793.0	797.4	823.3	833.4	855.0	842.0	808.9
57.5°	716.6	712.3	716.6	719.5	721.0	725.2	746.9	765.6	778.6	780.0	739.7
60°	633.0	627.2	633.0	646.0	648.8	651.7	671.9	689.2	700.8	705.0	663.3
62.5°	559.4	549.4	559.4	568.1	573.8	581.1	595.5	621.4	631.5	633.0	573.8
65°	481.6	477.3	481.6	498.8	500.3	509.0	524.8	543.6	565.2	562.3	477.3
67.5°	410.9	410.9	410.9	422.5	431.1	435.5	455.6	464.3	491.7	494.6	398.0
70°	346.1	344.6	346.1	354.7	360.5	370.5	389.3	399.4	421.1	428.2	323.0
72.5°	284.1	282.6	284.1	291.2	297.0	305.7	321.5	333.0	351.8	360.5	250.9
75°	229.3	226.4	229.3	235.0	233.6	245.1	258.1	269.7	287.0	292.7	186.0
77.5°	175.9	175.9	175.9	181.6	181.6	193.2	198.9	213.4	223.5	232.2	137.0
80°	131.2	129.8	131.2	132.7	132.7	138.4	148.5	158.6	167.2	167.2	93.7
82.5°	92.3	89.4	92.3	92.3	92.3	95.2	101.0	103.8	109.6	113.9	59.1
85°	57.7	57.7	57.7	59.1	57.7	60.6	62.0	64.9	64.9	62.0	36.0
87.5°	37.5	36.0	37.5	36.0	36.0	34.6	34.6	34.6	33.1	31.7	20.2
90°	6.6	6.6	6.6	6.6	6.6	8.9	11.8	13.4	11.5	7.8	4.9
92.5°	26.8	21.4	26.8	32.0	33.4	47.3	65.9	75.1	65.9	47.6	33.9
95°	93.1	77.1	93.1	109.2	113.2	148.7	196.0	219.6	185.5	117.2	66.0
97.5°	223.2	192.6	223.2	253.8	261.5	283.9	313.8	328.7	271.8	157.9	72.5
100°	321.6	285.2	321.6	358.1	367.2	365.6	363.4	362.3	299.1	172.7	78.0
102.5°	418.4	387.2	418.4	449.6	457.4	428.9	390.8	371.7	307.7	179.5	83.4
105°	541.9	525.1	541.9	558.7	562.8	498.8	413.4	370.7	308.7	184.5	91.5
107.5°	622.6	626.7	622.6	618.6	617.6	528.3	409.2	349.7	295.0	185.5	103.4
110°	653.5	670.9	653.5	636.0	631.7	531.8	398.7	332.1	282.8	184.1	110.1



TEST NUMBER: P934570

CATALOG NUMBER: SQ4-FA-050U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	656.3	683.1	656.3	629.5	622.7	520.5	384.3	316.1	272.1	184.1	118.2
115°	638.8	676.1	638.8	601.6	592.3	493.8	362.5	296.9	259.9	185.8	130.3
117.5°	601.9	643.3	601.9	560.6	550.3	461.4	343.0	283.8	252.3	189.3	142.0
120°	572.2	612.3	572.2	532.2	522.1	440.9	332.6	278.5	249.7	192.1	148.9
122.5°	543.3	582.9	543.3	503.7	493.8	420.7	323.2	274.4	248.4	196.1	157.0
125°	501.9	538.4	501.9	465.5	456.4	394.3	311.5	270.1	247.3	201.6	167.3
127.5°	464.8	495.5	464.8	434.0	426.3	373.0	301.9	266.4	246.7	207.0	177.4
130°	443.0	471.3	443.0	414.5	407.4	360.0	296.7	265.0	247.0	211.0	184.0
132.5°	423.0	448.5	423.0	397.6	391.2	348.7	292.1	263.8	247.3	214.3	189.5
135°	395.8	417.7	395.8	373.9	368.4	332.8	285.3	261.6	247.0	217.8	195.8
137.5°	373.9	391.9	373.9	356.1	351.5	321.5	281.3	261.3	248.5	223.1	203.9
140°	359.0	375.8	359.0	342.2	338.1	312.1	277.4	260.0	248.8	226.2	209.3
142.5°	346.6	361.1	346.6	332.1	328.5	305.7	275.3	260.0	249.6	228.9	213.3
145°	328.0	338.9	328.0	317.0	314.3	295.6	270.8	258.3	249.7	232.4	219.5
147.5°	313.7	322.7	313.7	304.7	302.4	287.7	268.1	258.3	251.4	237.6	227.2
150°	304.8	312.1	304.8	297.4	295.6	283.1	266.6	258.3	252.3	240.3	231.2
152.5°	297.0	302.5	297.0	291.5	290.1	279.5	265.4	258.3	252.9	242.1	233.9
155°	288.2	291.9	288.2	284.6	283.6	275.2	263.9	258.3	254.2	245.9	239.7
157.5°	281.2	283.8	281.2	278.7	278.0	271.4	262.7	258.3	255.4	249.7	245.5
160°	277.1	278.5	277.1	275.5	275.2	269.6	262.1	258.3	256.0	251.5	248.1
162.5°	274.3	275.7	274.3	272.9	272.6	267.8	261.5	258.3	256.7	253.4	250.9
165°	270.3	271.9	270.3	268.8	268.5	265.1	260.5	258.3	257.6	256.1	255.0
167.5°	267.5	268.1	267.5	266.9	266.8	264.5	261.6	260.0	259.4	258.2	257.2
170°	266.8	266.8	266.8	266.8	266.8	264.5	261.6	260.0	260.0	259.9	259.9
172.5°	264.6	264.1	264.6	265.1	265.3	263.5	261.2	260.0	260.0	260.0	260.0
175°	263.4	263.4	263.4	263.4	263.4	262.3	260.8	260.0	260.4	261.1	261.6
177.5°	262.3	261.6	262.3	262.9	263.1	262.2	261.1	260.5	260.7	261.2	261.6
180°	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6



TEST NUMBER: P934570
 CATALOG NUMBER: SQ4-FA-050U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1
2.5°	1545.7	1537.0	1537.0	1522.6	1516.8	1512.5	1505.3	1483.7	1477.9	1472.2	1480.8
5°	1558.6	1542.8	1531.2	1505.3	1483.7	1475.0	1447.6	1395.7	1361.2	1335.2	1320.8
7.5°	1561.5	1541.4	1519.7	1479.3	1427.4	1404.4	1320.8	1225.6	1199.6	1176.5	1162.1
10°	1558.6	1535.6	1505.3	1444.7	1322.2	1281.8	1198.2	1136.1	1120.3	1116.0	1120.3
12.5°	1548.6	1527.0	1485.1	1384.2	1212.6	1185.2	1136.1	1100.1	1097.3	1104.4	1143.4
15°	1531.2	1511.1	1462.0	1303.5	1152.1	1131.9	1097.3	1084.3	1100.1	1150.6	1267.4
17.5°	1513.9	1490.9	1430.3	1224.2	1105.9	1091.5	1067.0	1092.9	1182.3	1250.1	1289.0
20°	1490.9	1463.5	1394.3	1166.5	1072.8	1059.8	1048.2	1165.0	1232.8	1257.3	1278.9
22.5°	1463.5	1434.7	1345.2	1126.1	1038.2	1028.0	1035.3	1205.4	1232.8	1250.1	1268.8
25°	1427.4	1402.9	1287.5	1094.4	1010.7	999.2	1026.6	1201.1	1216.9	1221.3	1258.7
27.5°	1394.3	1362.5	1227.1	1065.5	977.6	973.2	1033.8	1182.3	1193.8	1198.2	1238.6
30°	1353.9	1306.3	1159.2	1035.3	943.0	941.5	1035.3	1159.2	1156.3	1167.9	1208.3
32.5°	1312.1	1222.7	1082.8	997.8	909.9	908.4	1025.1	1124.6	1121.7	1137.6	1167.9
35°	1273.1	1157.8	979.0	954.5	868.0	869.5	1000.7	1084.3	1085.7	1100.1	1118.8
37.5°	1232.8	1101.6	865.1	907.0	827.6	827.6	967.4	1046.8	1043.9	1048.2	1074.2
40°	1185.2	1013.6	764.2	844.9	790.1	785.8	927.1	1006.4	996.3	994.9	1030.9
42.5°	1134.8	917.0	689.2	762.7	746.9	741.2	878.1	957.4	938.6	943.0	989.1
45°	1079.9	891.1	631.5	644.5	702.2	697.9	824.7	901.2	888.2	899.7	947.3
47.5°	1025.1	839.1	612.8	535.0	654.6	653.1	765.6	846.4	839.1	850.7	901.2
50°	950.2	781.5	611.3	458.5	601.3	607.0	695.0	793.0	793.0	803.1	856.4
52.5°	853.6	710.8	555.1	415.3	539.2	556.5	633.0	746.9	749.8	759.9	807.4
55°	765.6	637.3	514.8	382.1	465.7	503.2	572.5	699.3	705.0	715.2	758.5
57.5°	684.9	530.6	506.1	343.2	398.0	434.0	519.0	653.1	656.0	664.7	706.5
60°	598.4	383.6	464.3	301.4	338.8	366.2	470.0	598.4	608.5	614.2	650.2
62.5°	500.3	278.3	421.1	272.5	310.0	315.8	429.7	546.5	559.4	563.8	585.4
65°	356.1	233.6	357.6	248.0	279.7	281.2	386.4	493.1	504.6	511.9	527.7
67.5°	240.8	190.3	272.5	224.9	256.6	258.1	344.6	431.1	447.0	452.8	462.8
70°	167.2	126.9	201.8	200.4	230.7	233.6	299.9	374.9	389.3	393.6	399.4
72.5°	122.5	102.4	167.2	180.2	203.3	206.2	253.7	311.4	325.9	330.2	333.0
75°	93.7	108.1	135.6	157.2	173.0	174.5	207.6	253.7	263.9	266.8	268.2
77.5°	75.0	101.0	99.5	126.9	141.3	138.4	162.9	196.1	204.7	204.7	204.7
80°	56.2	79.3	75.0	90.8	103.8	101.0	116.8	139.9	142.7	145.6	144.2
82.5°	41.8	50.4	50.4	57.7	69.2	66.3	77.9	90.8	90.8	90.8	93.7
85°	26.0	28.8	23.1	30.2	38.9	37.5	43.3	49.0	50.4	50.4	47.5
87.5°	15.8	13.0	7.2	11.5	17.3	17.3	20.2	21.6	20.2	20.2	20.2
90°	4.6	3.2	1.8	3.2	4.6	4.9	7.8	11.5	13.4	11.8	8.9
92.5°	30.9	18.9	7.0	18.9	30.9	33.9	47.6	65.9	75.1	65.9	47.3
95°	60.6	38.7	16.9	38.7	60.6	66.0	117.2	185.5	219.6	196.0	148.7
97.5°	67.6	48.4	29.1	48.4	67.6	72.5	157.9	271.8	328.7	313.8	283.9
100°	73.6	56.1	38.6	56.1	73.6	78.0	172.7	299.1	362.3	363.4	365.6
102.5°	79.3	63.0	46.7	63.0	79.3	83.4	179.5	307.7	371.7	390.8	428.9
105°	88.0	74.2	60.4	74.2	88.0	91.5	184.5	308.7	370.7	413.4	498.8
107.5°	100.2	87.3	74.5	87.3	100.2	103.4	185.5	295.0	349.7	409.2	528.3
110°	107.2	95.5	83.9	95.5	107.2	110.1	184.1	282.8	332.1	398.7	531.8



TEST NUMBER: P934570

CATALOG NUMBER: SQ4-FA-050U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	115.4	104.3	93.2	104.3	115.4	118.2	184.1	272.1	316.1	384.3	520.5
115°	127.7	117.5	107.3	117.5	127.7	130.3	185.8	259.9	296.9	362.5	493.8
117.5°	139.7	130.4	121.2	130.4	139.7	142.0	189.3	252.3	283.8	343.0	461.4
120°	146.7	138.0	129.2	138.0	146.7	148.9	192.1	249.7	278.5	332.6	440.9
122.5°	154.8	146.0	137.2	146.0	154.8	157.0	196.1	248.4	274.4	323.2	420.7
125°	165.3	157.3	149.3	157.3	165.3	167.3	201.6	247.3	270.1	311.5	394.3
127.5°	175.3	167.2	159.1	167.2	175.3	177.4	207.0	246.7	266.4	301.9	373.0
130°	181.8	173.1	164.4	173.1	181.8	184.0	211.0	247.0	265.0	296.7	360.0
132.5°	187.3	178.6	169.8	178.6	187.3	189.5	214.3	247.3	263.8	292.1	348.7
135°	193.8	185.8	177.9	185.8	193.8	195.8	217.8	247.0	261.6	285.3	332.8
137.5°	201.9	194.0	186.2	194.0	201.9	203.9	223.1	248.5	261.3	281.3	321.5
140°	207.5	200.2	193.0	200.2	207.5	209.3	226.2	248.8	260.0	277.4	312.1
142.5°	211.6	205.0	198.3	205.0	211.6	213.3	228.9	249.6	260.0	275.3	305.7
145°	218.0	212.1	206.4	212.1	218.0	219.5	232.4	249.7	258.3	270.8	295.6
147.5°	225.8	220.2	214.4	220.2	225.8	227.2	237.6	251.4	258.3	268.1	287.7
150°	230.0	224.8	219.6	224.8	230.0	231.2	240.3	252.3	258.3	266.6	283.1
152.5°	232.9	229.0	225.1	229.0	232.9	233.9	242.1	252.9	258.3	265.4	279.5
155°	239.0	236.1	233.2	236.1	239.0	239.7	245.9	254.2	258.3	263.9	275.2
157.5°	244.8	242.0	239.2	242.0	244.8	245.5	249.7	255.4	258.3	262.7	271.4
160°	247.6	245.4	243.2	245.4	247.6	248.1	251.5	256.0	258.3	262.1	269.6
162.5°	250.5	248.9	247.3	248.9	250.5	250.9	253.4	256.7	258.3	261.5	267.8
165°	254.7	253.1	251.7	253.1	254.7	255.0	256.1	257.6	258.3	260.5	265.1
167.5°	257.0	256.4	255.7	256.4	257.0	257.2	258.2	259.4	260.0	261.6	264.5
170°	259.7	259.0	258.3	259.0	259.7	259.9	259.9	260.0	260.0	261.6	264.5
172.5°	260.0	259.9	259.7	259.9	260.0	260.0	260.0	260.0	260.0	261.2	263.5
175°	261.6	261.6	261.6	261.6	261.6	261.6	261.1	260.4	260.0	260.8	262.3
177.5°	261.6	261.6	261.6	261.6	261.6	261.6	261.2	260.7	260.5	261.1	262.2
180°	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6



TEST NUMBER: P934570
 CATALOG NUMBER: SQ4-FA-050U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1	1524.1
2.5°	1470.7	1466.4	1472.2	1456.2	1472.2	1466.4	1470.7	1480.8	1472.2	1477.9	1483.7
5°	1290.4	1283.3	1260.2	1241.4	1260.2	1283.3	1290.4	1320.8	1335.2	1361.2	1395.7
7.5°	1153.5	1147.7	1141.9	1130.4	1141.9	1147.7	1153.5	1162.1	1176.5	1199.6	1225.6
10°	1123.2	1124.6	1133.3	1131.9	1133.3	1124.6	1123.2	1120.3	1116.0	1120.3	1136.1
12.5°	1201.1	1214.0	1261.6	1258.7	1261.6	1214.0	1201.1	1143.4	1104.4	1097.3	1100.1
15°	1290.4	1294.8	1304.9	1306.3	1304.9	1294.8	1290.4	1267.4	1150.6	1100.1	1084.3
17.5°	1299.1	1300.6	1307.7	1307.7	1307.7	1300.6	1299.1	1289.0	1250.1	1182.3	1092.9
20°	1291.9	1294.8	1309.2	1312.1	1309.2	1294.8	1291.9	1278.9	1257.3	1232.8	1165.0
22.5°	1289.0	1294.8	1306.3	1304.9	1306.3	1294.8	1289.0	1268.8	1250.1	1232.8	1205.4
25°	1274.6	1274.6	1276.0	1277.5	1276.0	1274.6	1274.6	1258.7	1221.3	1216.9	1201.1
27.5°	1244.3	1247.2	1255.8	1254.4	1255.8	1247.2	1244.3	1238.6	1198.2	1193.8	1182.3
30°	1216.9	1214.0	1206.9	1201.1	1206.9	1214.0	1216.9	1208.3	1167.9	1156.3	1159.2
32.5°	1170.8	1163.6	1156.3	1152.1	1156.3	1163.6	1170.8	1167.9	1137.6	1121.7	1124.6
35°	1116.0	1117.4	1116.0	1111.7	1116.0	1117.4	1116.0	1118.8	1100.1	1085.7	1084.3
37.5°	1077.1	1079.9	1078.5	1072.8	1078.5	1079.9	1077.1	1074.2	1048.2	1043.9	1046.8
40°	1036.7	1038.2	1036.7	1032.4	1036.7	1038.2	1036.7	1030.9	994.9	996.3	1006.4
42.5°	997.8	996.3	992.0	989.1	992.0	996.3	997.8	989.1	943.0	938.6	957.4
45°	953.0	954.5	945.9	941.5	945.9	954.5	953.0	947.3	899.7	888.2	901.2
47.5°	908.4	908.4	901.2	896.8	901.2	908.4	908.4	901.2	850.7	839.1	846.4
50°	860.8	859.3	849.3	847.8	849.3	859.3	860.8	856.4	803.1	793.0	793.0
52.5°	806.0	806.0	807.4	810.3	807.4	806.0	806.0	807.4	759.9	749.8	746.9
55°	758.5	759.9	770.0	772.8	770.0	759.9	758.5	758.5	715.2	705.0	699.3
57.5°	709.4	709.4	716.6	716.6	716.6	709.4	709.4	706.5	664.7	656.0	653.1
60°	653.1	656.0	661.8	660.4	661.8	656.0	653.1	650.2	614.2	608.5	598.4
62.5°	594.0	596.9	598.4	595.5	598.4	596.9	594.0	585.4	563.8	559.4	546.5
65°	532.1	535.0	536.3	533.5	536.3	535.0	532.1	527.7	511.9	504.6	493.1
67.5°	468.6	467.2	465.7	471.5	465.7	467.2	468.6	462.8	452.8	447.0	431.1
70°	403.7	403.7	402.3	405.1	402.3	403.7	403.7	399.4	393.6	389.3	374.9
72.5°	334.5	333.0	338.8	334.5	338.8	333.0	334.5	333.0	330.2	325.9	311.4
75°	266.8	269.7	266.8	271.1	266.8	269.7	266.8	268.2	266.8	263.9	253.7
77.5°	203.3	206.2	203.3	203.3	203.3	206.2	203.3	204.7	204.7	204.7	196.1
80°	144.2	142.7	142.7	141.3	142.7	142.7	144.2	144.2	145.6	142.7	139.9
82.5°	92.3	90.8	90.8	93.7	90.8	90.8	92.3	93.7	90.8	90.8	90.8
85°	50.4	51.9	49.0	49.0	49.0	51.9	50.4	47.5	50.4	50.4	49.0
87.5°	18.7	17.3	17.3	17.3	17.3	17.3	18.7	20.2	20.2	20.2	21.6
90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.9	11.8	13.4	11.5
92.5°	33.4	32.0	26.8	21.4	26.8	32.0	33.4	47.3	65.9	75.1	65.9
95°	113.2	109.2	93.1	77.1	93.1	109.2	113.2	148.7	196.0	219.6	185.5
97.5°	261.5	253.8	223.2	192.6	223.2	253.8	261.5	283.9	313.8	328.7	271.8
100°	367.2	358.1	321.6	285.2	321.6	358.1	367.2	365.6	363.4	362.3	299.1
102.5°	457.4	449.6	418.4	387.2	418.4	449.6	457.4	428.9	390.8	371.7	307.7
105°	562.8	558.7	541.9	525.1	541.9	558.7	562.8	498.8	413.4	370.7	308.7
107.5°	617.6	618.6	622.6	626.7	622.6	618.6	617.6	528.3	409.2	349.7	295.0
110°	631.7	636.0	653.5	670.9	653.5	636.0	631.7	531.8	398.7	332.1	282.8



TEST NUMBER: P934570

CATALOG NUMBER: SQ4-FA-050U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	622.7	629.5	656.3	683.1	656.3	629.5	622.7	520.5	384.3	316.1	272.1
115°	592.3	601.6	638.8	676.1	638.8	601.6	592.3	493.8	362.5	296.9	259.9
117.5°	550.3	560.6	601.9	643.3	601.9	560.6	550.3	461.4	343.0	283.8	252.3
120°	522.1	532.2	572.2	612.3	572.2	532.2	522.1	440.9	332.6	278.5	249.7
122.5°	493.8	503.7	543.3	582.9	543.3	503.7	493.8	420.7	323.2	274.4	248.4
125°	456.4	465.5	501.9	538.4	501.9	465.5	456.4	394.3	311.5	270.1	247.3
127.5°	426.3	434.0	464.8	495.5	464.8	434.0	426.3	373.0	301.9	266.4	246.7
130°	407.4	414.5	443.0	471.3	443.0	414.5	407.4	360.0	296.7	265.0	247.0
132.5°	391.2	397.6	423.0	448.5	423.0	397.6	391.2	348.7	292.1	263.8	247.3
135°	368.4	373.9	395.8	417.7	395.8	373.9	368.4	332.8	285.3	261.6	247.0
137.5°	351.5	356.1	373.9	391.9	373.9	356.1	351.5	321.5	281.3	261.3	248.5
140°	338.1	342.2	359.0	375.8	359.0	342.2	338.1	312.1	277.4	260.0	248.8
142.5°	328.5	332.1	346.6	361.1	346.6	332.1	328.5	305.7	275.3	260.0	249.6
145°	314.3	317.0	328.0	338.9	328.0	317.0	314.3	295.6	270.8	258.3	249.7
147.5°	302.4	304.7	313.7	322.7	313.7	304.7	302.4	287.7	268.1	258.3	251.4
150°	295.6	297.4	304.8	312.1	304.8	297.4	295.6	283.1	266.6	258.3	252.3
152.5°	290.1	291.5	297.0	302.5	297.0	291.5	290.1	279.5	265.4	258.3	252.9
155°	283.6	284.6	288.2	291.9	288.2	284.6	283.6	275.2	263.9	258.3	254.2
157.5°	278.0	278.7	281.2	283.8	281.2	278.7	278.0	271.4	262.7	258.3	255.4
160°	275.2	275.5	277.1	278.5	277.1	275.5	275.2	269.6	262.1	258.3	256.0
162.5°	272.6	272.9	274.3	275.7	274.3	272.9	272.6	267.8	261.5	258.3	256.7
165°	268.5	268.8	270.3	271.9	270.3	268.8	268.5	265.1	260.5	258.3	257.6
167.5°	266.8	266.9	267.5	268.1	267.5	266.9	266.8	264.5	261.6	260.0	259.4
170°	266.8	266.8	266.8	266.8	266.8	266.8	266.8	264.5	261.6	260.0	260.0
172.5°	265.3	265.1	264.6	264.1	264.6	265.1	265.3	263.5	261.2	260.0	260.0
175°	263.4	263.4	263.4	263.4	263.4	263.4	263.4	262.3	260.8	260.0	260.4
177.5°	263.1	262.9	262.3	261.6	262.3	262.9	263.1	262.2	261.1	260.5	260.7
180°	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6



TEST NUMBER: P934570
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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1524.1	1524.1	1524.1	1524.1	1524.1
2.5°	1505.3	1512.5	1516.8	1522.6	1537.0
5°	1447.6	1475.0	1483.7	1505.3	1531.2
7.5°	1320.8	1404.4	1427.4	1479.3	1519.7
10°	1198.2	1281.8	1322.2	1444.7	1505.3
12.5°	1136.1	1185.2	1212.6	1384.2	1485.1
15°	1097.3	1131.9	1152.1	1303.5	1462.0
17.5°	1067.0	1091.5	1105.9	1224.2	1430.3
20°	1048.2	1059.8	1072.8	1166.5	1394.3
22.5°	1035.3	1028.0	1038.2	1126.1	1345.2
25°	1026.6	999.2	1010.7	1094.4	1287.5
27.5°	1033.8	973.2	977.6	1065.5	1227.1
30°	1035.3	941.5	943.0	1035.3	1159.2
32.5°	1025.1	908.4	909.9	997.8	1082.8
35°	1000.7	869.5	868.0	954.5	979.0
37.5°	967.4	827.6	827.6	907.0	865.1
40°	927.1	785.8	790.1	844.9	764.2
42.5°	878.1	741.2	746.9	762.7	689.2
45°	824.7	697.9	702.2	644.5	631.5
47.5°	765.6	653.1	654.6	535.0	612.8
50°	695.0	607.0	601.3	458.5	611.3
52.5°	633.0	556.5	539.2	415.3	555.1
55°	572.5	503.2	465.7	382.1	514.8
57.5°	519.0	434.0	398.0	343.2	506.1
60°	470.0	366.2	338.8	301.4	464.3
62.5°	429.7	315.8	310.0	272.5	421.1
65°	386.4	281.2	279.7	248.0	357.6
67.5°	344.6	258.1	256.6	224.9	272.5
70°	299.9	233.6	230.7	200.4	201.8
72.5°	253.7	206.2	203.3	180.2	167.2
75°	207.6	174.5	173.0	157.2	135.6
77.5°	162.9	138.4	141.3	126.9	99.5
80°	116.8	101.0	103.8	90.8	75.0
82.5°	77.9	66.3	69.2	57.7	50.4
85°	43.3	37.5	38.9	30.2	23.1
87.5°	20.2	17.3	17.3	11.5	7.2
90°	7.8	4.9	4.6	3.2	1.8
92.5°	47.6	33.9	30.9	18.9	7.0
95°	117.2	66.0	60.6	38.7	16.9
97.5°	157.9	72.5	67.6	48.4	29.1
100°	172.7	78.0	73.6	56.1	38.6
102.5°	179.5	83.4	79.3	63.0	46.7
105°	184.5	91.5	88.0	74.2	60.4
107.5°	185.5	103.4	100.2	87.3	74.5
110°	184.1	110.1	107.2	95.5	83.9



TEST NUMBER: P934570

CATALOG NUMBER: SQ4-FA-050U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	184.1	118.2	115.4	104.3	93.2
115°	185.8	130.3	127.7	117.5	107.3
117.5°	189.3	142.0	139.7	130.4	121.2
120°	192.1	148.9	146.7	138.0	129.2
122.5°	196.1	157.0	154.8	146.0	137.2
125°	201.6	167.3	165.3	157.3	149.3
127.5°	207.0	177.4	175.3	167.2	159.1
130°	211.0	184.0	181.8	173.1	164.4
132.5°	214.3	189.5	187.3	178.6	169.8
135°	217.8	195.8	193.8	185.8	177.9
137.5°	223.1	203.9	201.9	194.0	186.2
140°	226.2	209.3	207.5	200.2	193.0
142.5°	228.9	213.3	211.6	205.0	198.3
145°	232.4	219.5	218.0	212.1	206.4
147.5°	237.6	227.2	225.8	220.2	214.4
150°	240.3	231.2	230.0	224.8	219.6
152.5°	242.1	233.9	232.9	229.0	225.1
155°	245.9	239.7	239.0	236.1	233.2
157.5°	249.7	245.5	244.8	242.0	239.2
160°	251.5	248.1	247.6	245.4	243.2
162.5°	253.4	250.9	250.5	248.9	247.3
165°	256.1	255.0	254.7	253.1	251.7
167.5°	258.2	257.2	257.0	256.4	255.7
170°	259.9	259.9	259.7	259.0	258.3
172.5°	260.0	260.0	260.0	259.9	259.7
175°	261.1	261.6	261.6	261.6	261.6
177.5°	261.2	261.6	261.6	261.6	261.6
180°	261.6	261.6	261.6	261.6	261.6



TEST NUMBER: P934570
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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	15.66	16.74	16.43	17.53	18.48	18.46	19.54	19.23	20.32	21.28
	3H	16.16	17.12	16.94	17.92	18.90	19.81	20.78	20.59	21.58	22.56
	4H	16.36	17.27	17.15	18.07	19.07	20.26	21.17	21.06	21.98	22.97
	6H	16.49	17.33	17.30	18.14	19.15	20.55	21.39	21.36	22.20	23.21
	8H	16.50	17.30	17.31	18.13	19.14	20.63	21.43	21.44	22.26	23.27
	12H	16.48	17.24	17.30	18.06	19.10	20.67	21.43	21.49	22.26	23.29
4H	2H	16.72	17.63	17.52	18.43	19.43	18.90	19.81	19.70	20.61	21.61
	3H	17.76	18.52	18.57	19.36	20.37	20.41	21.17	21.23	22.01	23.03
	4H	18.05	18.74	18.87	19.58	20.62	20.95	21.64	21.77	22.47	23.51
	6H	18.18	18.78	19.03	19.64	20.69	21.31	21.91	22.16	22.77	23.82
	8H	18.20	18.75	19.04	19.61	20.67	21.42	21.98	22.27	22.84	23.89
	12H	18.17	18.67	19.04	19.55	20.62	21.48	21.99	22.35	22.86	23.93
8H	4H	18.51	19.07	19.36	19.93	20.99	21.09	21.65	21.93	22.50	23.56
	6H	18.78	19.24	19.66	20.14	21.20	21.52	21.99	22.40	22.89	23.94
	8H	18.83	19.24	19.71	20.13	21.21	21.67	22.08	22.56	22.98	24.05
	12H	18.82	19.18	19.71	20.07	21.20	21.78	22.14	22.66	23.02	24.15
12H	4H	18.53	19.03	19.39	19.91	20.97	21.06	21.56	21.93	22.44	23.51
	6H	18.84	19.25	19.73	20.15	21.22	21.52	21.93	22.41	22.83	23.90
	8H	18.92	19.28	19.81	20.17	21.30	21.69	22.05	22.58	22.94	24.07