

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: P935370

Luminaire Tested: SQ4-FA-100U-125D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935370
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

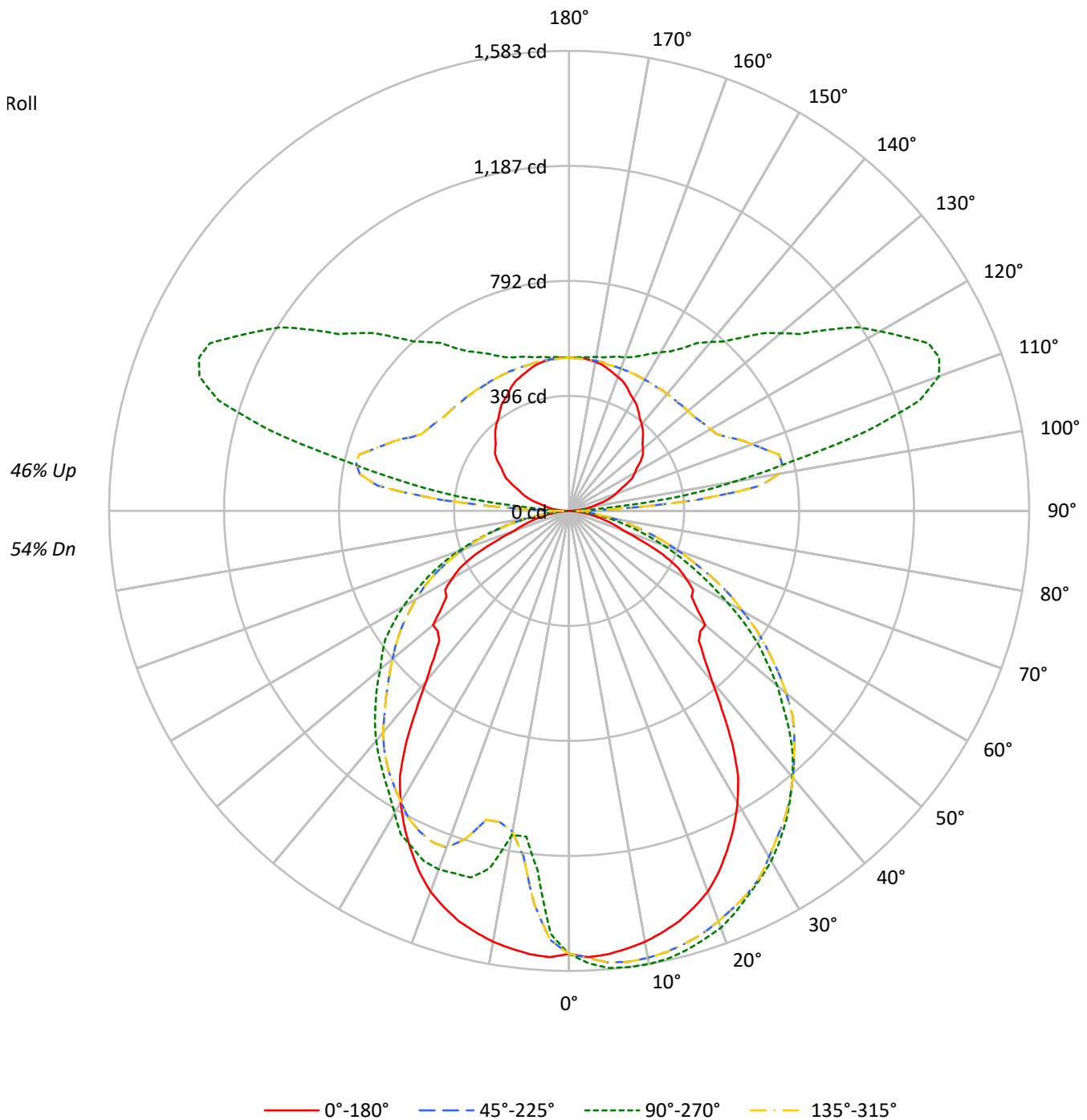
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7376.6 lumens
Efficiency: N/A
Efficacy: 107.2 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: General Diffuse

Input Watts (W): 68.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P935370
CATALOG NUMBER: SQ4-FA-100U-125D-935-1D-UNV-STD-W-4

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54			
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45			
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38			
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36	32			
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28			
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24			
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21			
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19			
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19	17			
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15			
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13			

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



TEST NUMBER: P935370

CATALOG NUMBER: SQ4-FA-100U-125D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.9
10°-20°	390.6	5.3
20°-30°	603.8	8.2
30°-40°	720.8	9.8
40°-50°	725.0	9.8
50°-60°	630.9	8.6
60°-70°	447.3	6.1
70°-80°	236.6	3.2
80°-90°	60.9	0.8
90°-100°	257.4	3.5
100°-110°	676.7	9.2
110°-120°	701.7	9.5
120°-130°	562.8	7.6
130°-140°	441.6	6.0
140°-150°	339.0	4.6
150°-160°	244.1	3.3
160°-170°	149.4	2.0
170°-180°	50.5	0.7
0°-30°	1132.0	15.3
0°-40°	1852.8	25.1
0°-60°	3208.7	43.5
0°-90°	3953.6	53.6
90°-120°	1635.7	22.2
90°-150°	2979.1	40.4
90°-180°	3423.0	46.4
0°-180°	7376.6	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°	4	14	4	14	4	4
95°	34	156	34	156	34	38
105°	122	1060	122	1060	122	129
115°	216	1364	216	1364	216	214
125°	301	1087	301	1087	301	267
135°	359	843	359	843	359	278
145°	416	684	416	684	416	261
155°	471	589	471	589	471	216
165°	508	549	508	549	508	143
175°	528	532	528	532	528	50
180°	528	528	528	528	528	



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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°	3.6	6.4	9.2	9.9	15.6	23.2	26.9	23.9	18.0	13.5	13.5
92.5°	14.1	38.3	62.4	68.4	96.2	133.2	151.7	132.9	95.4	67.3	64.7
95°	34.0	78.1	122.3	133.3	236.6	374.4	443.3	395.6	300.2	228.6	220.5
97.5°	58.8	97.7	136.7	146.4	318.7	548.5	663.4	633.2	572.9	527.6	512.2
100°	78.0	113.2	148.5	157.4	348.6	603.6	731.1	733.3	737.7	741.0	722.6
102.5°	94.2	127.2	160.1	168.4	362.4	620.9	750.3	788.7	865.5	923.1	907.4
105°	121.9	149.8	177.6	184.6	372.5	622.9	748.1	834.3	1006.6	1135.8	1127.4
107.5°	150.3	176.3	202.3	208.7	374.4	595.1	705.5	825.8	1066.1	1246.4	1248.4
110°	169.4	192.9	216.3	222.2	371.5	570.6	670.1	804.5	1073.2	1274.7	1283.5



TEST NUMBER: P935370

CATALOG NUMBER: SQ4-FA-100U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	188.2	210.5	232.9	238.5	371.6	549.1	637.9	775.4	1050.3	1256.6	1270.2
115°	216.5	237.1	257.7	262.9	375.1	524.6	599.3	731.8	996.7	1195.4	1214.1
117.5°	244.5	263.3	282.0	286.7	382.0	509.2	572.7	692.2	931.3	1110.7	1131.5
120°	260.8	278.4	296.1	300.5	387.7	504.0	562.1	671.3	889.7	1053.6	1073.9
122.5°	276.8	294.6	312.4	316.9	395.8	501.2	553.9	652.2	848.9	996.5	1016.4
125°	301.3	317.5	333.6	337.7	406.8	498.9	545.0	628.6	795.7	921.0	939.4
127.5°	321.0	337.4	353.8	357.9	417.8	497.7	537.6	609.4	752.8	860.4	875.9
130°	331.7	349.3	367.0	371.4	425.8	498.5	534.8	598.7	726.4	822.2	836.5
132.5°	342.7	360.3	377.9	382.4	432.3	498.9	532.2	589.4	703.8	789.5	802.4
135°	359.0	375.1	391.2	395.2	439.5	498.5	528.1	576.0	671.6	743.5	754.5
137.5°	375.6	391.6	407.4	411.4	450.0	501.6	527.3	567.8	648.7	709.5	718.5
140°	389.4	404.1	418.8	422.4	456.6	502.1	524.8	559.8	629.7	682.2	690.6
142.5°	400.1	413.6	427.2	430.6	462.0	503.9	524.8	555.5	616.9	663.0	670.4
145°	416.4	428.2	440.0	443.0	469.1	504.0	521.3	546.5	596.7	634.3	639.9
147.5°	432.7	444.2	455.6	458.5	479.5	507.4	521.3	541.1	580.6	610.3	614.9
150°	443.3	453.7	464.1	466.7	485.0	509.2	521.3	538.0	571.4	596.4	600.1
152.5°	454.3	462.1	470.0	472.0	488.5	510.3	521.3	535.6	564.0	585.4	588.2
155°	470.6	476.4	482.3	483.8	496.3	513.0	521.3	532.7	555.3	572.3	574.2
157.5°	482.7	488.4	494.0	495.4	504.0	515.5	521.3	530.1	547.8	561.0	562.2
160°	490.8	495.3	499.6	500.7	507.6	516.7	521.3	528.9	544.0	555.3	556.1
162.5°	498.9	502.3	505.6	506.4	511.4	518.0	521.3	527.7	540.4	550.0	550.6
165°	507.8	510.8	513.8	514.5	516.8	519.8	521.3	525.9	535.1	541.9	542.6
167.5°	516.0	517.4	518.9	519.2	521.1	523.6	524.8	527.8	533.8	538.3	538.6
170°	521.3	522.7	524.2	524.5	524.6	524.7	524.8	527.8	533.8	538.3	538.3
172.5°	524.2	524.5	524.7	524.8	524.8	524.8	524.8	527.2	531.9	535.5	535.2
175°	528.1	528.1	528.1	528.1	527.0	525.5	524.8	526.4	529.3	531.6	531.6
177.5°	528.1	528.1	528.1	528.1	527.2	526.1	525.5	526.7	529.1	530.9	530.5
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



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CATALOG NUMBER: SQ4-FA-100U-125D-935-1D-UNV-STD-W-4

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°	13.5	13.5	13.5	13.5	13.5	18.0	23.9	26.9	23.2	15.6	9.9
92.5°	53.9	43.2	53.9	64.7	67.3	95.4	132.9	151.7	133.2	96.2	68.4
95°	188.0	155.6	188.0	220.5	228.6	300.2	395.6	443.3	374.4	236.6	133.3
97.5°	450.5	388.8	450.5	512.2	527.6	572.9	633.2	663.4	548.5	318.7	146.4
100°	649.1	575.5	649.1	722.6	741.0	737.7	733.3	731.1	603.6	348.6	157.4
102.5°	844.4	781.5	844.4	907.4	923.1	865.5	788.7	750.3	620.9	362.4	168.4
105°	1093.5	1059.6	1093.5	1127.4	1135.8	1006.6	834.3	748.1	622.9	372.5	184.6
107.5°	1256.6	1264.8	1256.6	1248.4	1246.4	1066.1	825.8	705.5	595.1	374.4	208.7
110°	1318.8	1354.1	1318.8	1283.5	1274.7	1073.2	804.5	670.1	570.6	371.5	222.2



TEST NUMBER: P935370

CATALOG NUMBER: SQ4-FA-100U-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°	1324.3	1378.5	1324.3	1270.2	1256.6	1050.3	775.4	637.9	549.1	371.6	238.5
115°	1289.2	1364.4	1289.2	1214.1	1195.4	996.7	731.8	599.3	524.6	375.1	262.9
117.5°	1214.8	1298.1	1214.8	1131.5	1110.7	931.3	692.2	572.7	509.2	382.0	286.7
120°	1154.8	1235.7	1154.8	1073.9	1053.6	889.7	671.3	562.1	504.0	387.7	300.5
122.5°	1096.4	1176.2	1096.4	1016.4	996.5	848.9	652.2	553.9	501.2	395.8	316.9
125°	1012.9	1086.6	1012.9	939.4	921.0	795.7	628.6	545.0	498.9	406.8	337.7
127.5°	938.1	1000.1	938.1	875.9	860.4	752.8	609.4	537.6	497.7	417.8	357.9
130°	893.8	951.2	893.8	836.5	822.2	726.4	598.7	534.8	498.5	425.8	371.4
132.5°	853.7	905.1	853.7	802.4	789.5	703.8	589.4	532.2	498.9	432.3	382.4
135°	798.8	843.1	798.8	754.5	743.5	671.6	576.0	528.1	498.5	439.5	395.2
137.5°	754.8	791.0	754.8	718.5	709.5	648.7	567.8	527.3	501.6	450.0	411.4
140°	724.5	758.4	724.5	690.6	682.2	629.7	559.8	524.8	502.1	456.6	422.4
142.5°	699.5	728.6	699.5	670.4	663.0	616.9	555.5	524.8	503.9	462.0	430.6
145°	661.9	684.0	661.9	639.9	634.3	596.7	546.5	521.3	504.0	469.1	443.0
147.5°	633.1	651.4	633.1	614.9	610.3	580.6	541.1	521.3	507.4	479.5	458.5
150°	614.9	629.7	614.9	600.1	596.4	571.4	538.0	521.3	509.2	485.0	466.7
152.5°	599.4	610.6	599.4	588.2	585.4	564.0	535.6	521.3	510.3	488.5	472.0
155°	581.6	589.0	581.6	574.2	572.3	555.3	532.7	521.3	513.0	496.3	483.8
157.5°	567.5	572.7	567.5	562.2	561.0	547.8	530.1	521.3	515.5	504.0	495.4
160°	559.1	562.1	559.1	556.1	555.3	544.0	528.9	521.3	516.7	507.6	500.7
162.5°	553.5	556.4	553.5	550.6	550.0	540.4	527.7	521.3	518.0	511.4	506.4
165°	545.6	548.6	545.6	542.6	541.9	535.1	525.9	521.3	519.8	516.8	514.5
167.5°	539.8	541.1	539.8	538.6	538.3	533.8	527.8	524.8	523.6	521.1	519.2
170°	538.3	538.3	538.3	538.3	538.3	533.8	527.8	524.8	524.7	524.6	524.5
172.5°	534.1	533.0	534.1	535.2	535.5	531.9	527.2	524.8	524.8	524.8	524.8
175°	531.6	531.6	531.6	531.6	531.6	529.3	526.4	524.8	525.5	527.0	528.1
177.5°	529.3	528.1	529.3	530.5	530.9	529.1	526.7	525.5	526.1	527.2	528.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935370
 CATALOG NUMBER: SQ4-FA-100U-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°	9.2	6.4	3.6	6.4	9.2	9.9	15.6	23.2	26.9	23.9	18.0
92.5°	62.4	38.3	14.1	38.3	62.4	68.4	96.2	133.2	151.7	132.9	95.4
95°	122.3	78.1	34.0	78.1	122.3	133.3	236.6	374.4	443.3	395.6	300.2
97.5°	136.7	97.7	58.8	97.7	136.7	146.4	318.7	548.5	663.4	633.2	572.9
100°	148.5	113.2	78.0	113.2	148.5	157.4	348.6	603.6	731.1	733.3	737.7
102.5°	160.1	127.2	94.2	127.2	160.1	168.4	362.4	620.9	750.3	788.7	865.5
105°	177.6	149.8	121.9	149.8	177.6	184.6	372.5	622.9	748.1	834.3	1006.6
107.5°	202.3	176.3	150.3	176.3	202.3	208.7	374.4	595.1	705.5	825.8	1066.1
110°	216.3	192.9	169.4	192.9	216.3	222.2	371.5	570.6	670.1	804.5	1073.2



TEST NUMBER: P935370

CATALOG NUMBER: SQ4-FA-100U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	232.9	210.5	188.2	210.5	232.9	238.5	371.6	549.1	637.9	775.4	1050.3
115°	257.7	237.1	216.5	237.1	257.7	262.9	375.1	524.6	599.3	731.8	996.7
117.5°	282.0	263.3	244.5	263.3	282.0	286.7	382.0	509.2	572.7	692.2	931.3
120°	296.1	278.4	260.8	278.4	296.1	300.5	387.7	504.0	562.1	671.3	889.7
122.5°	312.4	294.6	276.8	294.6	312.4	316.9	395.8	501.2	553.9	652.2	848.9
125°	333.6	317.5	301.3	317.5	333.6	337.7	406.8	498.9	545.0	628.6	795.7
127.5°	353.8	337.4	321.0	337.4	353.8	357.9	417.8	497.7	537.6	609.4	752.8
130°	367.0	349.3	331.7	349.3	367.0	371.4	425.8	498.5	534.8	598.7	726.4
132.5°	377.9	360.3	342.7	360.3	377.9	382.4	432.3	498.9	532.2	589.4	703.8
135°	391.2	375.1	359.0	375.1	391.2	395.2	439.5	498.5	528.1	576.0	671.6
137.5°	407.4	391.6	375.6	391.6	407.4	411.4	450.0	501.6	527.3	567.8	648.7
140°	418.8	404.1	389.4	404.1	418.8	422.4	456.6	502.1	524.8	559.8	629.7
142.5°	427.2	413.6	400.1	413.6	427.2	430.6	462.0	503.9	524.8	555.5	616.9
145°	440.0	428.2	416.4	428.2	440.0	443.0	469.1	504.0	521.3	546.5	596.7
147.5°	455.6	444.2	432.7	444.2	455.6	458.5	479.5	507.4	521.3	541.1	580.6
150°	464.1	453.7	443.3	453.7	464.1	466.7	485.0	509.2	521.3	538.0	571.4
152.5°	470.0	462.1	454.3	462.1	470.0	472.0	488.5	510.3	521.3	535.6	564.0
155°	482.3	476.4	470.6	476.4	482.3	483.8	496.3	513.0	521.3	532.7	555.3
157.5°	494.0	488.4	482.7	488.4	494.0	495.4	504.0	515.5	521.3	530.1	547.8
160°	499.6	495.3	490.8	495.3	499.6	500.7	507.6	516.7	521.3	528.9	544.0
162.5°	505.6	502.3	498.9	502.3	505.6	506.4	511.4	518.0	521.3	527.7	540.4
165°	513.8	510.8	507.8	510.8	513.8	514.5	516.8	519.8	521.3	525.9	535.1
167.5°	518.9	517.4	516.0	517.4	518.9	519.2	521.1	523.6	524.8	527.8	533.8
170°	524.2	522.7	521.3	522.7	524.2	524.5	524.6	524.7	524.8	527.8	533.8
172.5°	524.7	524.5	524.2	524.5	524.7	524.8	524.8	524.8	524.8	527.2	531.9
175°	528.1	528.1	528.1	528.1	528.1	528.1	527.0	525.5	524.8	526.4	529.3
177.5°	528.1	528.1	528.1	528.1	528.1	528.1	527.2	526.1	525.5	526.7	529.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935370
 CATALOG NUMBER: SQ4-FA-100U-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°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	23.9	26.9	23.2
92.5°	67.3	64.7	53.9	43.2	53.9	64.7	67.3	95.4	132.9	151.7	133.2
95°	228.6	220.5	188.0	155.6	188.0	220.5	228.6	300.2	395.6	443.3	374.4
97.5°	527.6	512.2	450.5	388.8	450.5	512.2	527.6	572.9	633.2	663.4	548.5
100°	741.0	722.6	649.1	575.5	649.1	722.6	741.0	737.7	733.3	731.1	603.6
102.5°	923.1	907.4	844.4	781.5	844.4	907.4	923.1	865.5	788.7	750.3	620.9
105°	1135.8	1127.4	1093.5	1059.6	1093.5	1127.4	1135.8	1006.6	834.3	748.1	622.9
107.5°	1246.4	1248.4	1256.6	1264.8	1256.6	1248.4	1246.4	1066.1	825.8	705.5	595.1
110°	1274.7	1283.5	1318.8	1354.1	1318.8	1283.5	1274.7	1073.2	804.5	670.1	570.6



TEST NUMBER: P935370
 CATALOG NUMBER: SQ4-FA-100U-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°	1256.6	1270.2	1324.3	1378.5	1324.3	1270.2	1256.6	1050.3	775.4	637.9	549.1
115°	1195.4	1214.1	1289.2	1364.4	1289.2	1214.1	1195.4	996.7	731.8	599.3	524.6
117.5°	1110.7	1131.5	1214.8	1298.1	1214.8	1131.5	1110.7	931.3	692.2	572.7	509.2
120°	1053.6	1073.9	1154.8	1235.7	1154.8	1073.9	1053.6	889.7	671.3	562.1	504.0
122.5°	996.5	1016.4	1096.4	1176.2	1096.4	1016.4	996.5	848.9	652.2	553.9	501.2
125°	921.0	939.4	1012.9	1086.6	1012.9	939.4	921.0	795.7	628.6	545.0	498.9
127.5°	860.4	875.9	938.1	1000.1	938.1	875.9	860.4	752.8	609.4	537.6	497.7
130°	822.2	836.5	893.8	951.2	893.8	836.5	822.2	726.4	598.7	534.8	498.5
132.5°	789.5	802.4	853.7	905.1	853.7	802.4	789.5	703.8	589.4	532.2	498.9
135°	743.5	754.5	798.8	843.1	798.8	754.5	743.5	671.6	576.0	528.1	498.5
137.5°	709.5	718.5	754.8	791.0	754.8	718.5	709.5	648.7	567.8	527.3	501.6
140°	682.2	690.6	724.5	758.4	724.5	690.6	682.2	629.7	559.8	524.8	502.1
142.5°	663.0	670.4	699.5	728.6	699.5	670.4	663.0	616.9	555.5	524.8	503.9
145°	634.3	639.9	661.9	684.0	661.9	639.9	634.3	596.7	546.5	521.3	504.0
147.5°	610.3	614.9	633.1	651.4	633.1	614.9	610.3	580.6	541.1	521.3	507.4
150°	596.4	600.1	614.9	629.7	614.9	600.1	596.4	571.4	538.0	521.3	509.2
152.5°	585.4	588.2	599.4	610.6	599.4	588.2	585.4	564.0	535.6	521.3	510.3
155°	572.3	574.2	581.6	589.0	581.6	574.2	572.3	555.3	532.7	521.3	513.0
157.5°	561.0	562.2	567.5	572.7	567.5	562.2	561.0	547.8	530.1	521.3	515.5
160°	555.3	556.1	559.1	562.1	559.1	556.1	555.3	544.0	528.9	521.3	516.7
162.5°	550.0	550.6	553.5	556.4	553.5	550.6	550.0	540.4	527.7	521.3	518.0
165°	541.9	542.6	545.6	548.6	545.6	542.6	541.9	535.1	525.9	521.3	519.8
167.5°	538.3	538.6	539.8	541.1	539.8	538.6	538.3	533.8	527.8	524.8	523.6
170°	538.3	538.3	538.3	538.3	538.3	538.3	538.3	533.8	527.8	524.8	524.7
172.5°	535.5	535.2	534.1	533.0	534.1	535.2	535.5	531.9	527.2	524.8	524.8
175°	531.6	531.6	531.6	531.6	531.6	531.6	531.6	529.3	526.4	524.8	525.5
177.5°	530.9	530.5	529.3	528.1	529.3	530.5	530.9	529.1	526.7	525.5	526.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935370
 CATALOG NUMBER: SQ4-FA-100U-125D-935-1D-UNV-STD-W-4

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°	15.6	9.9	9.2	6.4	3.6
92.5°	96.2	68.4	62.4	38.3	14.1
95°	236.6	133.3	122.3	78.1	34.0
97.5°	318.7	146.4	136.7	97.7	58.8
100°	348.6	157.4	148.5	113.2	78.0
102.5°	362.4	168.4	160.1	127.2	94.2
105°	372.5	184.6	177.6	149.8	121.9
107.5°	374.4	208.7	202.3	176.3	150.3
110°	371.5	222.2	216.3	192.9	169.4



TEST NUMBER: P935370

CATALOG NUMBER: SQ4-FA-100U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	371.6	238.5	232.9	210.5	188.2
115°	375.1	262.9	257.7	237.1	216.5
117.5°	382.0	286.7	282.0	263.3	244.5
120°	387.7	300.5	296.1	278.4	260.8
122.5°	395.8	316.9	312.4	294.6	276.8
125°	406.8	337.7	333.6	317.5	301.3
127.5°	417.8	357.9	353.8	337.4	321.0
130°	425.8	371.4	367.0	349.3	331.7
132.5°	432.3	382.4	377.9	360.3	342.7
135°	439.5	395.2	391.2	375.1	359.0
137.5°	450.0	411.4	407.4	391.6	375.6
140°	456.6	422.4	418.8	404.1	389.4
142.5°	462.0	430.6	427.2	413.6	400.1
145°	469.1	443.0	440.0	428.2	416.4
147.5°	479.5	458.5	455.6	444.2	432.7
150°	485.0	466.7	464.1	453.7	443.3
152.5°	488.5	472.0	470.0	462.1	454.3
155°	496.3	483.8	482.3	476.4	470.6
157.5°	504.0	495.4	494.0	488.4	482.7
160°	507.6	500.7	499.6	495.3	490.8
162.5°	511.4	506.4	505.6	502.3	498.9
165°	516.8	514.5	513.8	510.8	507.8
167.5°	521.1	519.2	518.9	517.4	516.0
170°	524.6	524.5	524.2	522.7	521.3
172.5°	524.8	524.8	524.7	524.5	524.2
175°	527.0	528.1	528.1	528.1	528.1
177.5°	527.2	528.1	528.1	528.1	528.1
180°	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935370
 CATALOG NUMBER: SQ4-FA-100U-125D-935-1D-UNV-STD-W-4

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	14.32	15.22	15.25	16.16	17.38	17.12	18.02	18.05	18.96	20.18
	3H	14.80	15.61	15.74	16.56	17.80	18.46	19.26	19.40	20.21	21.46
	4H	15.00	15.76	15.95	16.71	17.96	18.90	19.66	19.85	20.61	21.87
	6H	15.12	15.82	16.08	16.78	18.04	19.18	19.88	20.14	20.84	22.10
	8H	15.12	15.79	16.09	16.77	18.03	19.25	19.91	20.22	20.89	22.16
	12H	15.09	15.73	16.07	16.70	17.99	19.28	19.92	20.26	20.89	22.18
4H	2H	15.35	16.11	16.31	17.07	18.32	17.54	18.29	18.49	19.25	20.50
	3H	16.38	17.01	17.35	18.00	19.27	19.04	19.67	20.00	20.66	21.92
	4H	16.66	17.24	17.64	18.22	19.51	19.56	20.14	20.54	21.12	22.41
	6H	16.79	17.29	17.78	18.29	19.58	19.92	20.41	20.91	21.42	22.71
	8H	16.79	17.26	17.79	18.26	19.56	20.02	20.48	21.01	21.48	22.79
	12H	16.76	17.18	17.77	18.20	19.50	20.07	20.49	21.08	21.51	22.82
8H	4H	17.11	17.58	18.10	18.57	19.88	19.69	20.15	20.68	21.15	22.45
	6H	17.37	17.76	18.39	18.80	20.10	20.12	20.50	21.13	21.54	22.84
	8H	17.42	17.76	18.44	18.78	20.10	20.26	20.60	21.29	21.63	22.95
	12H	17.40	17.70	18.43	18.72	20.09	20.36	20.66	21.39	21.68	23.04
12H	4H	17.12	17.54	18.13	18.55	19.86	19.65	20.07	20.66	21.09	22.39
	6H	17.43	17.77	18.46	18.80	20.12	20.11	20.45	21.14	21.48	22.80
	8H	17.50	17.80	18.53	18.82	20.19	20.27	20.57	21.30	21.59	22.96