

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: P934724

Luminaire Tested: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934724
REPORT IS A COMBINATION OF REPORTS P933712 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

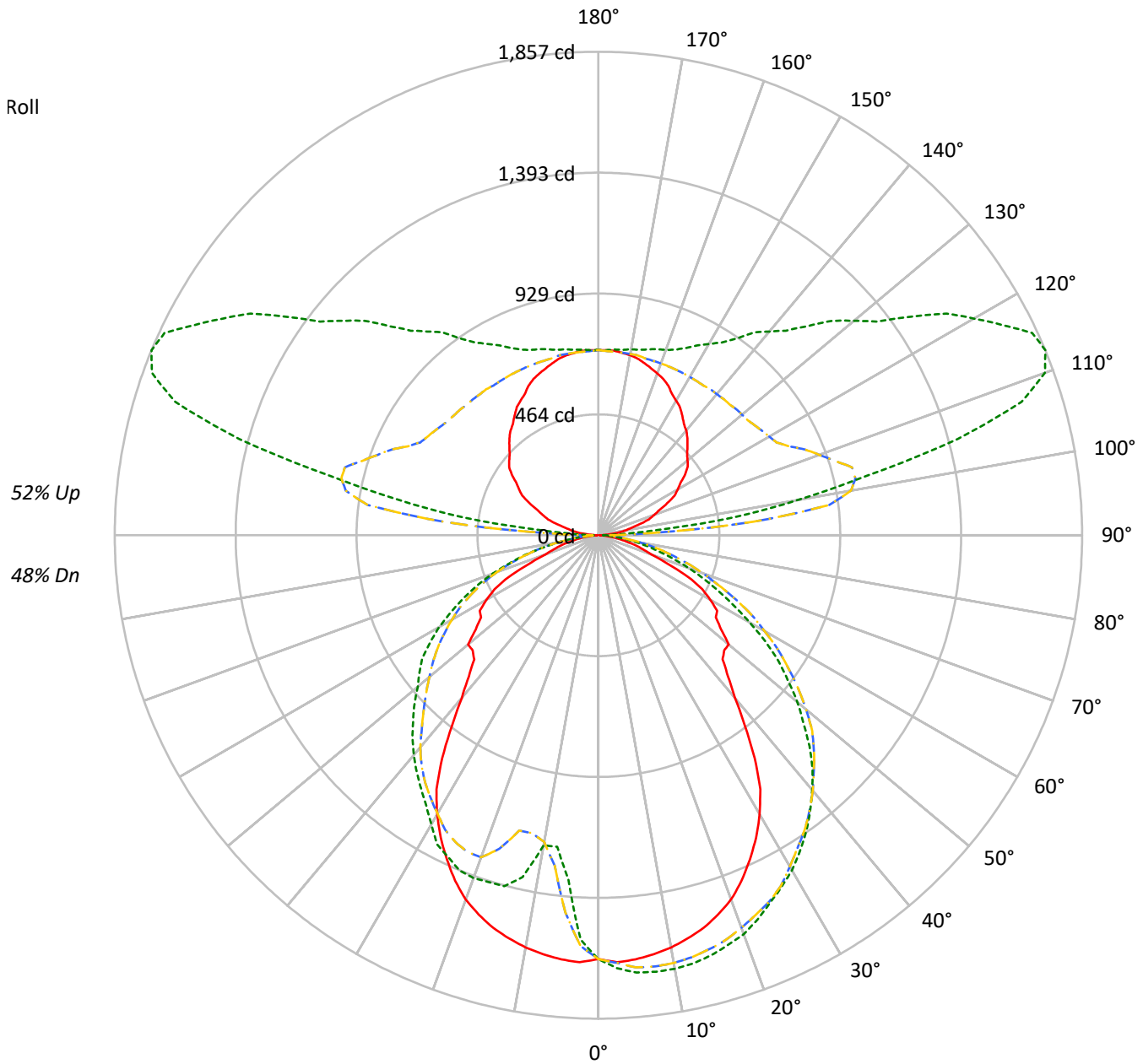
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8834.2 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 84.8
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: P934724
CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

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
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7552	7552	7552	7552
5°	7608	7623	7608	5994
10°	7558	7509	7558	5368
15°	7475	7347	7475	6135
20°	7319	7154	7319	6147
25°	6999	6873	6999	6017
30°	6585	6639	6585	5731
35°	5871	6344	5871	5417
40°	4892	5997	4892	5179
45°	4371	5590	4371	4906
50°	4644	5104	4644	4632
55°	4369	4582	4369	4474
60°	4504	3892	4504	4097
65°	4083	3217	4083	3596
70°	2828	2564	2828	3014
75°	2480	1895	2480	2269
80°	1998	1253	1998	1364
85°	1146	664	1146	565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 6699 cd/sqm



TEST NUMBER: P934724

CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	1.7
10°-20°	417.2	4.7
20°-30°	644.9	7.3
30°-40°	769.8	8.7
40°-50°	774.3	8.8
50°-60°	673.8	7.6
60°-70°	477.7	5.4
70°-80°	252.7	2.9
80°-90°	65.7	0.7
90°-100°	346.7	3.9
100°-110°	911.6	10.3
110°-120°	945.2	10.7
120°-130°	758.2	8.6
130°-140°	594.9	6.7
140°-150°	456.6	5.2
150°-160°	328.8	3.7
160°-170°	201.2	2.3
170°-180°	68.0	0.8
0°-30°	1209.0	13.7
0°-40°	1978.8	22.4
0°-60°	3426.9	38.8
0°-90°	4223.1	47.8
90°-120°	2203.5	24.9
90°-150°	4013.1	45.4
90°-180°	4611.0	52.2
0°-180°	8834.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1628	1628	1628	1628	1628	
5°	1635	1686	1635	1326	1635	155
15°	1562	1671	1562	1395	1562	439
25°	1375	1558	1375	1364	1375	631
35°	1046	1390	1046	1187	1046	647
45°	674	1146	674	1006	674	540
55°	550	846	550	825	550	505
65°	382	510	382	570	382	365
75°	145	242	145	290	145	152
85°	25	62	25	52	25	33
90°	5	18	5	18	5	5
95°	46	210	46	210	46	51
105°	164	1427	164	1427	164	174
115°	292	1838	292	1838	292	288
125°	406	1464	406	1464	406	360
135°	484	1136	484	1136	484	374
145°	561	921	561	921	561	351
155°	634	793	634	793	634	291
165°	684	739	684	739	684	193
175°	711	716	711	716	711	68
180°	711	711	711	711	711	



TEST NUMBER: P934724

CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7
2.5°	1641.6	1641.6	1650.8	1653.9	1653.9	1649.3	1644.6	1649.3	1663.1	1667.7	1666.2
5°	1635.4	1647.7	1664.7	1667.7	1670.8	1669.3	1666.2	1669.3	1684.7	1687.8	1689.3
7.5°	1623.1	1646.2	1667.7	1672.4	1677.0	1672.4	1670.8	1673.9	1689.3	1692.4	1692.4
10°	1607.7	1640.0	1664.7	1667.7	1672.4	1667.7	1667.7	1673.9	1689.3	1692.4	1693.9
12.5°	1586.1	1630.8	1653.9	1657.0	1663.1	1661.6	1660.0	1666.2	1681.6	1684.7	1684.7
15°	1561.5	1613.8	1635.4	1638.5	1649.3	1646.2	1646.2	1652.3	1669.3	1673.9	1672.4
17.5°	1527.6	1592.3	1616.9	1621.5	1629.2	1627.7	1629.2	1635.4	1650.8	1653.9	1655.4
20°	1489.1	1563.0	1592.3	1596.9	1604.6	1604.6	1604.6	1612.3	1627.7	1633.9	1633.9
22.5°	1436.7	1532.2	1563.0	1566.1	1575.3	1575.3	1578.4	1589.2	1603.1	1604.6	1604.6
25°	1375.1	1498.3	1524.5	1533.8	1543.0	1547.6	1552.2	1558.4	1563.0	1561.5	1563.0
27.5°	1310.5	1455.2	1489.1	1495.3	1507.6	1512.2	1518.4	1519.9	1521.4	1526.1	1523.0
30°	1238.1	1395.2	1446.0	1452.1	1472.2	1475.2	1469.1	1472.2	1479.9	1482.9	1486.0
32.5°	1156.5	1305.8	1401.3	1415.2	1433.7	1424.4	1422.9	1427.5	1439.8	1439.8	1442.9
35°	1045.6	1236.5	1359.7	1372.1	1385.9	1375.1	1381.3	1382.8	1390.5	1395.2	1393.6
37.5°	923.9	1176.5	1316.6	1325.9	1336.6	1322.8	1332.0	1336.6	1342.8	1339.7	1339.7
40°	816.2	1082.5	1265.8	1272.0	1281.2	1270.4	1279.7	1282.7	1285.8	1282.7	1281.2
42.5°	736.1	979.4	1211.9	1219.6	1213.4	1221.1	1224.2	1230.4	1225.8	1219.6	1219.6
45°	674.5	951.6	1153.4	1162.6	1153.4	1165.7	1170.3	1170.3	1156.5	1153.4	1151.8
47.5°	654.5	896.3	1094.9	1094.9	1090.2	1105.6	1113.3	1102.6	1088.7	1084.1	1084.1
50°	653.0	834.7	1014.8	1008.6	1030.2	1048.7	1041.0	1030.2	1019.4	1002.5	1002.5
52.5°	592.9	759.2	911.7	934.7	968.6	979.4	967.0	956.3	937.8	930.1	923.9
55°	549.8	680.7	817.7	863.9	899.4	913.2	890.1	879.3	851.6	847.0	843.9
57.5°	540.5	566.7	731.5	790.0	833.1	831.6	817.7	797.7	774.6	770.0	768.5
60°	495.9	409.6	639.1	708.4	753.1	748.4	736.1	717.6	696.1	693.0	689.9
62.5°	449.7	297.2	534.4	612.9	676.1	674.5	663.7	636.0	620.6	612.9	606.8
65°	381.9	249.5	380.4	509.7	600.6	603.7	580.6	560.6	543.6	534.4	532.8
67.5°	291.1	203.3	257.2	425.0	528.2	525.1	495.9	486.6	465.1	460.5	451.2
70°	215.6	135.5	178.6	345.0	457.4	449.7	426.6	415.8	395.8	385.0	378.8
72.5°	178.6	109.3	130.9	268.0	385.0	375.8	355.7	343.4	326.5	317.2	311.1
75°	144.8	115.5	100.1	198.7	312.6	306.5	288.0	275.7	261.8	249.5	251.0
77.5°	106.3	107.8	80.1	146.3	247.9	238.7	227.9	212.5	206.4	194.0	194.0
80°	80.1	84.7	60.1	100.1	178.6	178.6	169.4	158.6	147.8	141.7	141.7
82.5°	53.9	53.9	44.7	63.1	121.7	117.0	110.9	107.8	101.6	98.6	98.6
85°	24.6	30.8	27.7	38.5	66.2	69.3	69.3	66.2	64.7	61.6	63.1
87.5°	7.7	13.9	16.9	21.6	33.9	35.4	37.0	37.0	37.0	38.5	38.5
90°	4.8	8.6	12.5	13.4	21.0	31.2	36.3	32.3	24.2	18.2	18.2
92.5°	19.1	51.6	84.1	92.2	129.6	179.4	204.4	179.1	128.6	90.7	87.1
95°	45.8	105.3	164.6	179.5	318.7	504.4	597.2	532.9	404.3	307.9	297.0
97.5°	79.2	131.7	184.1	197.2	429.4	738.9	893.7	853.0	771.8	710.9	690.1
100°	105.0	152.5	200.1	212.0	469.6	813.1	984.8	987.8	993.8	998.2	973.4
102.5°	127.0	171.3	215.7	226.8	488.0	836.5	1010.6	1062.4	1165.9	1243.6	1222.4
105°	164.2	201.8	239.3	248.7	501.7	839.1	1007.8	1123.8	1355.9	1530.0	1518.6
107.5°	202.4	237.5	272.4	281.2	504.3	801.7	950.5	1112.3	1436.1	1679.0	1681.8
110°	228.2	259.8	291.4	299.3	500.4	768.6	902.7	1083.7	1445.7	1717.2	1729.0



TEST NUMBER: P934724

CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	253.5	283.6	313.7	321.2	500.6	739.7	859.3	1044.6	1415.0	1692.8	1711.1
115°	291.7	319.5	347.3	354.2	505.2	706.6	807.3	985.7	1342.6	1610.2	1635.6
117.5°	329.4	354.7	379.9	386.2	514.7	685.8	771.5	932.5	1254.6	1496.1	1524.1
120°	351.4	375.1	398.9	404.8	522.2	678.8	757.1	904.3	1198.6	1419.3	1446.5
122.5°	372.8	396.9	420.8	426.8	533.2	675.1	746.1	878.6	1143.7	1342.4	1369.3
125°	405.8	427.7	449.4	454.9	548.0	672.1	734.2	846.8	1071.8	1240.7	1265.5
127.5°	432.5	454.6	476.6	482.2	562.9	670.4	724.2	820.8	1014.1	1159.1	1179.9
130°	446.8	470.5	494.3	500.3	573.6	671.5	720.4	806.4	978.5	1107.6	1126.9
132.5°	461.6	485.4	509.2	515.1	582.4	672.1	717.0	794.0	948.1	1063.6	1080.9
135°	483.6	505.2	526.9	532.3	592.0	671.5	711.3	775.9	904.8	1001.5	1016.5
137.5°	506.0	527.4	548.9	554.2	606.3	675.7	710.3	764.8	874.0	955.7	967.9
140°	524.7	544.4	564.1	569.0	615.0	676.4	707.0	754.1	848.3	919.0	930.4
142.5°	539.0	557.2	575.5	580.0	622.4	678.8	707.0	748.4	831.1	893.2	903.0
145°	560.9	576.9	592.7	596.8	631.9	678.8	702.2	736.1	803.8	854.5	861.9
147.5°	582.9	598.4	613.9	617.8	646.0	683.5	702.2	728.9	782.1	822.1	828.2
150°	597.2	611.2	625.2	628.7	653.2	685.9	702.2	724.7	769.7	803.4	808.4
152.5°	612.0	622.6	633.2	635.9	658.0	687.5	702.2	721.4	759.8	788.6	792.4
155°	633.9	641.8	649.6	651.7	668.5	691.0	702.2	717.5	748.1	771.0	773.5
157.5°	650.2	657.8	665.4	667.4	679.0	694.5	702.2	714.1	737.9	755.7	757.4
160°	661.2	667.1	673.1	674.5	683.8	696.1	702.2	712.4	732.8	748.1	749.1
162.5°	672.1	676.6	681.1	682.2	688.9	697.8	702.2	710.9	728.0	740.9	741.8
165°	684.1	688.1	692.2	693.2	696.2	700.2	702.2	708.4	720.7	730.0	731.0
167.5°	695.1	697.0	698.9	699.4	701.9	705.3	707.0	711.0	719.1	725.2	725.6
170°	702.2	704.2	706.1	706.6	706.7	706.9	707.0	711.0	719.1	725.2	725.2
172.5°	706.1	706.5	706.9	707.0	707.0	707.0	707.0	710.2	716.6	721.3	721.0
175°	711.3	711.3	711.3	711.3	709.9	707.9	707.0	709.0	713.1	716.1	716.1
177.5°	711.3	711.3	711.3	711.3	710.2	708.7	707.9	709.6	712.7	715.1	714.7
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7
2.5°	1669.3	1664.7	1669.3	1666.2	1667.7	1663.1	1649.3	1644.6	1649.3	1653.9	1653.9
5°	1689.3	1686.2	1689.3	1689.3	1687.8	1684.7	1669.3	1666.2	1669.3	1670.8	1667.7
7.5°	1695.5	1690.8	1695.5	1692.4	1692.4	1689.3	1673.9	1670.8	1672.4	1677.0	1672.4
10°	1695.5	1690.8	1695.5	1693.9	1692.4	1689.3	1673.9	1667.7	1667.7	1672.4	1667.7
12.5°	1687.8	1684.7	1687.8	1684.7	1684.7	1681.6	1666.2	1660.0	1661.6	1663.1	1657.0
15°	1675.4	1670.8	1675.4	1672.4	1673.9	1669.3	1652.3	1646.2	1646.2	1649.3	1638.5
17.5°	1657.0	1650.8	1657.0	1655.4	1653.9	1650.8	1635.4	1629.2	1627.7	1629.2	1621.5
20°	1635.4	1630.8	1635.4	1633.9	1633.9	1627.7	1612.3	1604.6	1604.6	1604.6	1596.9
22.5°	1601.5	1596.9	1601.5	1604.6	1604.6	1603.1	1589.2	1578.4	1575.3	1575.3	1566.1
25°	1563.0	1558.4	1563.0	1563.0	1561.5	1563.0	1558.4	1552.2	1547.6	1543.0	1533.8
27.5°	1526.1	1523.0	1526.1	1523.0	1526.1	1521.4	1519.9	1518.4	1512.2	1507.6	1495.3
30°	1489.1	1486.0	1489.1	1486.0	1482.9	1479.9	1472.2	1469.1	1475.2	1472.2	1452.1
32.5°	1442.9	1439.8	1442.9	1442.9	1439.8	1439.8	1427.5	1422.9	1424.4	1433.7	1415.2
35°	1395.2	1390.5	1395.2	1393.6	1395.2	1390.5	1382.8	1381.3	1375.1	1385.9	1372.1
37.5°	1339.7	1335.1	1339.7	1339.7	1339.7	1342.8	1336.6	1332.0	1322.8	1336.6	1325.9
40°	1282.7	1276.6	1282.7	1281.2	1282.7	1285.8	1282.7	1279.7	1270.4	1281.2	1272.0
42.5°	1218.1	1216.5	1218.1	1219.6	1219.6	1225.8	1230.4	1224.2	1221.1	1213.4	1219.6
45°	1148.8	1145.7	1148.8	1151.8	1153.4	1156.5	1170.3	1170.3	1165.7	1153.4	1162.6
47.5°	1074.8	1067.1	1074.8	1084.1	1084.1	1088.7	1102.6	1113.3	1105.6	1090.2	1094.9
50°	996.3	997.8	996.3	1002.5	1002.5	1019.4	1030.2	1041.0	1048.7	1030.2	1008.6
52.5°	919.3	917.8	919.3	923.9	930.1	937.8	956.3	967.0	979.4	968.6	934.7
55°	842.4	845.5	842.4	843.9	847.0	851.6	879.3	890.1	913.2	899.4	863.9
57.5°	765.4	760.8	765.4	768.5	770.0	774.6	797.7	817.7	831.6	833.1	790.0
60°	676.1	669.9	676.1	689.9	693.0	696.1	717.6	736.1	748.4	753.1	708.4
62.5°	597.5	586.7	597.5	606.8	612.9	620.6	636.0	663.7	674.5	676.1	612.9
65°	514.4	509.7	514.4	532.8	534.4	543.6	560.6	580.6	603.7	600.6	509.7
67.5°	438.9	438.9	438.9	451.2	460.5	465.1	486.6	495.9	525.1	528.2	425.0
70°	369.6	368.1	369.6	378.8	385.0	395.8	415.8	426.6	449.7	457.4	345.0
72.5°	303.4	301.8	303.4	311.1	317.2	326.5	343.4	355.7	375.8	385.0	268.0
75°	244.9	241.8	244.9	251.0	249.5	261.8	275.7	288.0	306.5	312.6	198.7
77.5°	187.9	187.9	187.9	194.0	194.0	206.4	212.5	227.9	238.7	247.9	146.3
80°	140.1	138.6	140.1	141.7	141.7	147.8	158.6	169.4	178.6	178.6	100.1
82.5°	98.6	95.5	98.6	98.6	98.6	101.6	107.8	110.9	117.0	121.7	63.1
85°	61.6	61.6	61.6	63.1	61.6	64.7	66.2	69.3	69.3	66.2	38.5
87.5°	40.0	38.5	40.0	38.5	38.5	37.0	37.0	37.0	35.4	33.9	21.6
90°	18.2	18.2	18.2	18.2	18.2	24.2	32.3	36.3	31.2	21.0	13.4
92.5°	72.7	58.2	72.7	87.1	90.7	128.6	179.1	204.4	179.4	129.6	92.2
95°	253.3	209.6	253.3	297.0	307.9	404.3	532.9	597.2	504.4	318.7	179.5
97.5°	606.8	523.7	606.8	690.1	710.9	771.8	853.0	893.7	738.9	429.4	197.2
100°	874.4	775.3	874.4	973.4	998.2	993.8	987.8	984.8	813.1	469.6	212.0
102.5°	1137.5	1052.7	1137.5	1222.4	1243.6	1165.9	1062.4	1010.6	836.5	488.0	226.8
105°	1472.9	1427.3	1472.9	1518.6	1530.0	1355.9	1123.8	1007.8	839.1	501.7	248.7
107.5°	1692.8	1703.8	1692.8	1681.8	1679.0	1436.1	1112.3	950.5	801.7	504.3	281.2
110°	1776.6	1824.1	1776.6	1729.0	1717.2	1445.7	1083.7	902.7	768.6	500.4	299.3



TEST NUMBER: P934724

CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1784.0	1857.0	1784.0	1711.1	1692.8	1415.0	1044.6	859.3	739.7	500.6	321.2
115°	1736.7	1837.9	1736.7	1635.6	1610.2	1342.6	985.7	807.3	706.6	505.2	354.2
117.5°	1636.4	1748.7	1636.4	1524.1	1496.1	1254.6	932.5	771.5	685.8	514.7	386.2
120°	1555.6	1664.7	1555.6	1446.5	1419.3	1198.6	904.3	757.1	678.8	522.2	404.8
122.5°	1476.9	1584.4	1476.9	1369.3	1342.4	1143.7	878.6	746.1	675.1	533.2	426.8
125°	1364.6	1463.7	1364.6	1265.5	1240.7	1071.8	846.8	734.2	672.1	548.0	454.9
127.5°	1263.6	1347.2	1263.6	1179.9	1159.1	1014.1	820.8	724.2	670.4	562.9	482.2
130°	1204.0	1281.3	1204.0	1126.9	1107.6	978.5	806.4	720.4	671.5	573.6	500.3
132.5°	1150.1	1219.2	1150.1	1080.9	1063.6	948.1	794.0	717.0	672.1	582.4	515.1
135°	1076.1	1135.7	1076.1	1016.5	1001.5	904.8	775.9	711.3	671.5	592.0	532.3
137.5°	1016.7	1065.5	1016.7	967.9	955.7	874.0	764.8	710.3	675.7	606.3	554.2
140°	976.1	1021.6	976.1	930.4	919.0	848.3	754.1	707.0	676.4	615.0	569.0
142.5°	942.2	981.5	942.2	903.0	893.2	831.1	748.4	707.0	678.8	622.4	580.0
145°	891.7	921.4	891.7	861.9	854.5	803.8	736.1	702.2	678.8	631.9	596.8
147.5°	852.8	877.4	852.8	828.2	822.1	782.1	728.9	702.2	683.5	646.0	617.8
150°	828.4	848.3	828.4	808.4	803.4	769.7	724.7	702.2	685.9	653.2	628.7
152.5°	807.4	822.5	807.4	792.4	788.6	759.8	721.4	702.2	687.5	658.0	635.9
155°	783.5	793.4	783.5	773.5	771.0	748.1	717.5	702.2	691.0	668.5	651.7
157.5°	764.5	771.5	764.5	757.4	755.7	737.9	714.1	702.2	694.5	679.0	667.4
160°	753.1	757.1	753.1	749.1	748.1	732.8	712.4	702.2	696.1	683.8	674.5
162.5°	745.7	749.5	745.7	741.8	740.9	728.0	710.9	702.2	697.8	688.9	682.2
165°	735.0	739.0	735.0	731.0	730.0	720.7	708.4	702.2	700.2	696.2	693.2
167.5°	727.3	729.0	727.3	725.6	725.2	719.1	711.0	707.0	705.3	701.9	699.4
170°	725.2	725.2	725.2	725.2	725.2	719.1	711.0	707.0	706.9	706.7	706.6
172.5°	719.5	718.0	719.5	721.0	721.3	716.6	710.2	707.0	707.0	707.0	707.0
175°	716.1	716.1	716.1	716.1	716.1	713.1	709.0	707.0	707.9	709.9	711.3
177.5°	713.0	711.3	713.0	714.7	715.1	712.7	709.6	707.9	708.7	710.2	711.3
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



TEST NUMBER: P934724

CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7
2.5°	1650.8	1641.6	1641.6	1626.2	1620.0	1615.4	1607.7	1584.6	1578.4	1572.3	1581.5
5°	1664.7	1647.7	1635.4	1607.7	1584.6	1575.3	1546.1	1490.6	1453.7	1426.0	1410.6
7.5°	1667.7	1646.2	1623.1	1580.0	1524.5	1499.9	1410.6	1308.9	1281.2	1256.6	1241.2
10°	1664.7	1640.0	1607.7	1543.0	1412.1	1369.0	1279.7	1213.4	1196.5	1191.9	1196.5
12.5°	1653.9	1630.8	1586.1	1478.3	1295.1	1265.8	1213.4	1174.9	1171.9	1179.6	1221.1
15°	1635.4	1613.8	1561.5	1392.1	1230.4	1208.8	1171.9	1158.0	1174.9	1228.8	1353.6
17.5°	1616.9	1592.3	1527.6	1307.4	1181.1	1165.7	1139.5	1167.2	1262.7	1335.1	1376.7
20°	1592.3	1563.0	1489.1	1245.8	1145.7	1131.8	1119.5	1244.2	1316.6	1342.8	1365.9
22.5°	1563.0	1532.2	1436.7	1202.7	1108.7	1097.9	1105.6	1287.4	1316.6	1335.1	1355.1
25°	1524.5	1498.3	1375.1	1168.8	1079.5	1067.1	1096.4	1282.7	1299.7	1304.3	1344.3
27.5°	1489.1	1455.2	1310.5	1138.0	1044.0	1039.4	1104.1	1262.7	1275.0	1279.7	1322.8
30°	1446.0	1395.2	1238.1	1105.6	1007.1	1005.5	1105.6	1238.1	1235.0	1247.3	1290.4
32.5°	1401.3	1305.8	1156.5	1065.6	971.7	970.1	1094.9	1201.1	1198.0	1215.0	1247.3
35°	1359.7	1236.5	1045.6	1019.4	927.0	928.5	1068.7	1158.0	1159.5	1174.9	1195.0
37.5°	1316.6	1176.5	923.9	968.6	884.0	884.0	1033.3	1118.0	1114.9	1119.5	1147.2
40°	1265.8	1082.5	816.2	902.4	843.9	839.3	990.1	1074.8	1064.1	1062.5	1101.0
42.5°	1211.9	979.4	736.1	814.7	797.7	791.6	937.8	1022.5	1002.5	1007.1	1056.4
45°	1153.4	951.6	674.5	688.4	750.0	745.4	880.9	962.4	948.6	960.9	1011.7
47.5°	1094.9	896.3	654.5	571.3	699.2	697.6	817.7	904.0	896.3	908.6	962.4
50°	1014.8	834.7	653.0	489.7	642.2	648.3	742.3	847.0	847.0	857.8	914.8
52.5°	911.7	759.2	592.9	443.5	576.0	594.4	676.1	797.7	800.8	811.6	862.4
55°	817.7	680.7	549.8	408.1	497.4	537.5	611.4	746.9	753.1	763.8	810.0
57.5°	731.5	566.7	540.5	366.5	425.0	463.5	554.4	697.6	700.7	709.9	754.6
60°	639.1	409.6	495.9	321.9	361.9	391.2	502.0	639.1	649.9	656.0	694.5
62.5°	534.4	297.2	449.7	291.1	331.1	337.3	458.9	583.7	597.5	602.1	625.2
65°	380.4	249.5	381.9	264.9	298.8	300.3	412.7	526.7	539.0	546.7	563.6
67.5°	257.2	203.3	291.1	240.2	274.1	275.7	368.1	460.5	477.4	483.6	494.3
70°	178.6	135.5	215.6	214.1	246.4	249.5	320.3	400.4	415.8	420.4	426.6
72.5°	130.9	109.3	178.6	192.5	217.1	220.2	271.0	332.6	348.0	352.7	355.7
75°	100.1	115.5	144.8	167.9	184.8	186.3	221.8	271.0	281.8	284.9	286.4
77.5°	80.1	107.8	106.3	135.5	150.9	147.8	174.0	209.4	218.7	218.7	218.7
80°	60.1	84.7	80.1	97.0	110.9	107.8	124.7	149.4	152.5	155.5	154.0
82.5°	44.7	53.9	53.9	61.6	73.9	70.8	83.2	97.0	97.0	97.0	100.1
85°	27.7	30.8	24.6	32.3	41.6	40.0	46.2	52.4	53.9	53.9	50.8
87.5°	16.9	13.9	7.7	12.3	18.5	18.5	21.6	23.1	21.6	21.6	21.6
90°	12.5	8.6	4.8	8.6	12.5	13.4	21.0	31.2	36.3	32.3	24.2
92.5°	84.1	51.6	19.1	51.6	84.1	92.2	129.6	179.4	204.4	179.1	128.6
95°	164.6	105.3	45.8	105.3	164.6	179.5	318.7	504.4	597.2	532.9	404.3
97.5°	184.1	131.7	79.2	131.7	184.1	197.2	429.4	738.9	893.7	853.0	771.8
100°	200.1	152.5	105.0	152.5	200.1	212.0	469.6	813.1	984.8	987.8	993.8
102.5°	215.7	171.3	127.0	171.3	215.7	226.8	488.0	836.5	1010.6	1062.4	1165.9
105°	239.3	201.8	164.2	201.8	239.3	248.7	501.7	839.1	1007.8	1123.8	1355.9
107.5°	272.4	237.5	202.4	237.5	272.4	281.2	504.3	801.7	950.5	1112.3	1436.1
110°	291.4	259.8	228.2	259.8	291.4	299.3	500.4	768.6	902.7	1083.7	1445.7



TEST NUMBER: P934724

CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	313.7	283.6	253.5	283.6	313.7	321.2	500.6	739.7	859.3	1044.6	1415.0
115°	347.3	319.5	291.7	319.5	347.3	354.2	505.2	706.6	807.3	985.7	1342.6
117.5°	379.9	354.7	329.4	354.7	379.9	386.2	514.7	685.8	771.5	932.5	1254.6
120°	398.9	375.1	351.4	375.1	398.9	404.8	522.2	678.8	757.1	904.3	1198.6
122.5°	420.8	396.9	372.8	396.9	420.8	426.8	533.2	675.1	746.1	878.6	1143.7
125°	449.4	427.7	405.8	427.7	449.4	454.9	548.0	672.1	734.2	846.8	1071.8
127.5°	476.6	454.6	432.5	454.6	476.6	482.2	562.9	670.4	724.2	820.8	1014.1
130°	494.3	470.5	446.8	470.5	494.3	500.3	573.6	671.5	720.4	806.4	978.5
132.5°	509.2	485.4	461.6	485.4	509.2	515.1	582.4	672.1	717.0	794.0	948.1
135°	526.9	505.2	483.6	505.2	526.9	532.3	592.0	671.5	711.3	775.9	904.8
137.5°	548.9	527.4	506.0	527.4	548.9	554.2	606.3	675.7	710.3	764.8	874.0
140°	564.1	544.4	524.7	544.4	564.1	569.0	615.0	676.4	707.0	754.1	848.3
142.5°	575.5	557.2	539.0	557.2	575.5	580.0	622.4	678.8	707.0	748.4	831.1
145°	592.7	576.9	560.9	576.9	592.7	596.8	631.9	678.8	702.2	736.1	803.8
147.5°	613.9	598.4	582.9	598.4	613.9	617.8	646.0	683.5	702.2	728.9	782.1
150°	625.2	611.2	597.2	611.2	625.2	628.7	653.2	685.9	702.2	724.7	769.7
152.5°	633.2	622.6	612.0	622.6	633.2	635.9	658.0	687.5	702.2	721.4	759.8
155°	649.6	641.8	633.9	641.8	649.6	651.7	668.5	691.0	702.2	717.5	748.1
157.5°	665.4	657.8	650.2	657.8	665.4	667.4	679.0	694.5	702.2	714.1	737.9
160°	673.1	667.1	661.2	667.1	673.1	674.5	683.8	696.1	702.2	712.4	732.8
162.5°	681.1	676.6	672.1	676.6	681.1	682.2	688.9	697.8	702.2	710.9	728.0
165°	692.2	688.1	684.1	688.1	692.2	693.2	696.2	700.2	702.2	708.4	720.7
167.5°	698.9	697.0	695.1	697.0	698.9	699.4	701.9	705.3	707.0	711.0	719.1
170°	706.1	704.2	702.2	704.2	706.1	706.6	706.7	706.9	707.0	711.0	719.1
172.5°	706.9	706.5	706.1	706.5	706.9	707.0	707.0	707.0	707.0	710.2	716.6
175°	711.3	711.3	711.3	711.3	711.3	711.3	709.9	707.9	707.0	709.0	713.1
177.5°	711.3	711.3	711.3	711.3	711.3	711.3	710.2	708.7	707.9	709.6	712.7
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



TEST NUMBER: P934724

CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7	1627.7
2.5°	1570.7	1566.1	1572.3	1555.3	1572.3	1566.1	1570.7	1581.5	1572.3	1578.4	1584.6
5°	1378.2	1370.5	1345.9	1325.9	1345.9	1370.5	1378.2	1410.6	1426.0	1453.7	1490.6
7.5°	1231.9	1225.8	1219.6	1207.3	1219.6	1225.8	1231.9	1241.2	1256.6	1281.2	1308.9
10°	1199.6	1201.1	1210.4	1208.8	1210.4	1201.1	1199.6	1196.5	1191.9	1196.5	1213.4
12.5°	1282.7	1296.6	1347.4	1344.3	1347.4	1296.6	1282.7	1221.1	1179.6	1171.9	1174.9
15°	1378.2	1382.8	1393.6	1395.2	1393.6	1382.8	1378.2	1353.6	1228.8	1174.9	1158.0
17.5°	1387.5	1389.0	1396.7	1396.7	1396.7	1389.0	1387.5	1376.7	1335.1	1262.7	1167.2
20°	1379.8	1382.8	1398.2	1401.3	1398.2	1382.8	1379.8	1365.9	1342.8	1316.6	1244.2
22.5°	1376.7	1382.8	1395.2	1393.6	1395.2	1382.8	1376.7	1355.1	1335.1	1316.6	1287.4
25°	1361.3	1361.3	1362.8	1364.4	1362.8	1361.3	1361.3	1344.3	1304.3	1299.7	1282.7
27.5°	1328.9	1332.0	1341.3	1339.7	1341.3	1332.0	1328.9	1322.8	1279.7	1275.0	1262.7
30°	1299.7	1296.6	1288.9	1282.7	1288.9	1296.6	1299.7	1290.4	1247.3	1235.0	1238.1
32.5°	1250.4	1242.7	1235.0	1230.4	1235.0	1242.7	1250.4	1247.3	1215.0	1198.0	1201.1
35°	1191.9	1193.4	1191.9	1187.3	1191.9	1193.4	1191.9	1195.0	1174.9	1159.5	1158.0
37.5°	1150.3	1153.4	1151.8	1145.7	1151.8	1153.4	1150.3	1147.2	1119.5	1114.9	1118.0
40°	1107.2	1108.7	1107.2	1102.6	1107.2	1108.7	1107.2	1101.0	1062.5	1064.1	1074.8
42.5°	1065.6	1064.1	1059.4	1056.4	1059.4	1064.1	1065.6	1056.4	1007.1	1002.5	1022.5
45°	1017.9	1019.4	1010.2	1005.5	1010.2	1019.4	1017.9	1011.7	960.9	948.6	962.4
47.5°	970.1	970.1	962.4	957.8	962.4	970.1	970.1	962.4	908.6	896.3	904.0
50°	919.3	917.8	907.1	905.5	907.1	917.8	919.3	914.8	857.8	847.0	847.0
52.5°	860.9	860.9	862.4	865.5	862.4	860.9	860.9	862.4	811.6	800.8	797.7
55°	810.0	811.6	822.4	825.4	822.4	811.6	810.0	810.0	763.8	753.1	746.9
57.5°	757.7	757.7	765.4	765.4	765.4	757.7	757.7	754.6	709.9	700.7	697.6
60°	697.6	700.7	706.9	705.3	706.9	700.7	697.6	694.5	656.0	649.9	639.1
62.5°	634.5	637.6	639.1	636.0	639.1	637.6	634.5	625.2	602.1	597.5	583.7
65°	568.3	571.3	572.9	569.8	572.9	571.3	568.3	563.6	546.7	539.0	526.7
67.5°	500.5	499.0	497.4	503.6	497.4	499.0	500.5	494.3	483.6	477.4	460.5
70°	431.2	431.2	429.7	432.7	429.7	431.2	431.2	426.6	420.4	415.8	400.4
72.5°	357.3	355.7	361.9	357.3	361.9	355.7	357.3	355.7	352.7	348.0	332.6
75°	284.9	288.0	284.9	289.5	284.9	288.0	284.9	286.4	284.9	281.8	271.0
77.5°	217.1	220.2	217.1	217.1	217.1	220.2	217.1	218.7	218.7	218.7	209.4
80°	154.0	152.5	152.5	150.9	152.5	152.5	154.0	154.0	155.5	152.5	149.4
82.5°	98.6	97.0	97.0	100.1	97.0	97.0	98.6	100.1	97.0	97.0	97.0
85°	53.9	55.4	52.4	52.4	52.4	55.4	53.9	50.8	53.9	53.9	52.4
87.5°	20.0	18.5	18.5	18.5	18.5	18.5	20.0	21.6	21.6	21.6	23.1
90°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	24.2	32.3	36.3	31.2
92.5°	90.7	87.1	72.7	58.2	72.7	87.1	90.7	128.6	179.1	204.4	179.4
95°	307.9	297.0	253.3	209.6	253.3	297.0	307.9	404.3	532.9	597.2	504.4
97.5°	710.9	690.1	606.8	523.7	606.8	690.1	710.9	771.8	853.0	893.7	738.9
100°	998.2	973.4	874.4	775.3	874.4	973.4	998.2	993.8	987.8	984.8	813.1
102.5°	1243.6	1222.4	1137.5	1052.7	1137.5	1222.4	1243.6	1165.9	1062.4	1010.6	836.5
105°	1530.0	1518.6	1472.9	1427.3	1472.9	1518.6	1530.0	1355.9	1123.8	1007.8	839.1
107.5°	1679.0	1681.8	1692.8	1703.8	1692.8	1681.8	1679.0	1436.1	1112.3	950.5	801.7
110°	1717.2	1729.0	1776.6	1824.1	1776.6	1729.0	1717.2	1445.7	1083.7	902.7	768.6



TEST NUMBER: P934724

CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1692.8	1711.1	1784.0	1857.0	1784.0	1711.1	1692.8	1415.0	1044.6	859.3	739.7
115°	1610.2	1635.6	1736.7	1837.9	1736.7	1635.6	1610.2	1342.6	985.7	807.3	706.6
117.5°	1496.1	1524.1	1636.4	1748.7	1636.4	1524.1	1496.1	1254.6	932.5	771.5	685.8
120°	1419.3	1446.5	1555.6	1664.7	1555.6	1446.5	1419.3	1198.6	904.3	757.1	678.8
122.5°	1342.4	1369.3	1476.9	1584.4	1476.9	1369.3	1342.4	1143.7	878.6	746.1	675.1
125°	1240.7	1265.5	1364.6	1463.7	1364.6	1265.5	1240.7	1071.8	846.8	734.2	672.1
127.5°	1159.1	1179.9	1263.6	1347.2	1263.6	1179.9	1159.1	1014.1	820.8	724.2	670.4
130°	1107.6	1126.9	1204.0	1281.3	1204.0	1126.9	1107.6	978.5	806.4	720.4	671.5
132.5°	1063.6	1080.9	1150.1	1219.2	1150.1	1080.9	1063.6	948.1	794.0	717.0	672.1
135°	1001.5	1016.5	1076.1	1135.7	1076.1	1016.5	1001.5	904.8	775.9	711.3	671.5
137.5°	955.7	967.9	1016.7	1065.5	1016.7	967.9	955.7	874.0	764.8	710.3	675.7
140°	919.0	930.4	976.1	1021.6	976.1	930.4	919.0	848.3	754.1	707.0	676.4
142.5°	893.2	903.0	942.2	981.5	942.2	903.0	893.2	831.1	748.4	707.0	678.8
145°	854.5	861.9	891.7	921.4	891.7	861.9	854.5	803.8	736.1	702.2	678.8
147.5°	822.1	828.2	852.8	877.4	852.8	828.2	822.1	782.1	728.9	702.2	683.5
150°	803.4	808.4	828.4	848.3	828.4	808.4	803.4	769.7	724.7	702.2	685.9
152.5°	788.6	792.4	807.4	822.5	807.4	792.4	788.6	759.8	721.4	702.2	687.5
155°	771.0	773.5	783.5	793.4	783.5	773.5	771.0	748.1	717.5	702.2	691.0
157.5°	755.7	757.4	764.5	771.5	764.5	757.4	755.7	737.9	714.1	702.2	694.5
160°	748.1	749.1	753.1	757.1	753.1	749.1	748.1	732.8	712.4	702.2	696.1
162.5°	740.9	741.8	745.7	749.5	745.7	741.8	740.9	728.0	710.9	702.2	697.8
165°	730.0	731.0	735.0	739.0	735.0	731.0	730.0	720.7	708.4	702.2	700.2
167.5°	725.2	725.6	727.3	729.0	727.3	725.6	725.2	719.1	711.0	707.0	705.3
170°	725.2	725.2	725.2	725.2	725.2	725.2	725.2	719.1	711.0	707.0	706.9
172.5°	721.3	721.0	719.5	718.0	719.5	721.0	721.3	716.6	710.2	707.0	707.0
175°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	713.1	709.0	707.0	707.9
177.5°	715.1	714.7	713.0	711.3	713.0	714.7	715.1	712.7	709.6	707.9	708.7
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



TEST NUMBER: P934724

CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1627.7	1627.7	1627.7	1627.7	1627.7
2.5°	1607.7	1615.4	1620.0	1626.2	1641.6
5°	1546.1	1575.3	1584.6	1607.7	1635.4
7.5°	1410.6	1499.9	1524.5	1580.0	1623.1
10°	1279.7	1369.0	1412.1	1543.0	1607.7
12.5°	1213.4	1265.8	1295.1	1478.3	1586.1
15°	1171.9	1208.8	1230.4	1392.1	1561.5
17.5°	1139.5	1165.7	1181.1	1307.4	1527.6
20°	1119.5	1131.8	1145.7	1245.8	1489.1
22.5°	1105.6	1097.9	1108.7	1202.7	1436.7
25°	1096.4	1067.1	1079.5	1168.8	1375.1
27.5°	1104.1	1039.4	1044.0	1138.0	1310.5
30°	1105.6	1005.5	1007.1	1105.6	1238.1
32.5°	1094.9	970.1	971.7	1065.6	1156.5
35°	1068.7	928.5	927.0	1019.4	1045.6
37.5°	1033.3	884.0	884.0	968.6	923.9
40°	990.1	839.3	843.9	902.4	816.2
42.5°	937.8	791.6	797.7	814.7	736.1
45°	880.9	745.4	750.0	688.4	674.5
47.5°	817.7	697.6	699.2	571.3	654.5
50°	742.3	648.3	642.2	489.7	653.0
52.5°	676.1	594.4	576.0	443.5	592.9
55°	611.4	537.5	497.4	408.1	549.8
57.5°	554.4	463.5	425.0	366.5	540.5
60°	502.0	391.2	361.9	321.9	495.9
62.5°	458.9	337.3	331.1	291.1	449.7
65°	412.7	300.3	298.8	264.9	381.9
67.5°	368.1	275.7	274.1	240.2	291.1
70°	320.3	249.5	246.4	214.1	215.6
72.5°	271.0	220.2	217.1	192.5	178.6
75°	221.8	186.3	184.8	167.9	144.8
77.5°	174.0	147.8	150.9	135.5	106.3
80°	124.7	107.8	110.9	97.0	80.1
82.5°	83.2	70.8	73.9	61.6	53.9
85°	46.2	40.0	41.6	32.3	24.6
87.5°	21.6	18.5	18.5	12.3	7.7
90°	21.0	13.4	12.5	8.6	4.8
92.5°	129.6	92.2	84.1	51.6	19.1
95°	318.7	179.5	164.6	105.3	45.8
97.5°	429.4	197.2	184.1	131.7	79.2
100°	469.6	212.0	200.1	152.5	105.0
102.5°	488.0	226.8	215.7	171.3	127.0
105°	501.7	248.7	239.3	201.8	164.2
107.5°	504.3	281.2	272.4	237.5	202.4
110°	500.4	299.3	291.4	259.8	228.2



TEST NUMBER: P934724

CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	500.6	321.2	313.7	283.6	253.5
115°	505.2	354.2	347.3	319.5	291.7
117.5°	514.7	386.2	379.9	354.7	329.4
120°	522.2	404.8	398.9	375.1	351.4
122.5°	533.2	426.8	420.8	396.9	372.8
125°	548.0	454.9	449.4	427.7	405.8
127.5°	562.9	482.2	476.6	454.6	432.5
130°	573.6	500.3	494.3	470.5	446.8
132.5°	582.4	515.1	509.2	485.4	461.6
135°	592.0	532.3	526.9	505.2	483.6
137.5°	606.3	554.2	548.9	527.4	506.0
140°	615.0	569.0	564.1	544.4	524.7
142.5°	622.4	580.0	575.5	557.2	539.0
145°	631.9	596.8	592.7	576.9	560.9
147.5°	646.0	617.8	613.9	598.4	582.9
150°	653.2	628.7	625.2	611.2	597.2
152.5°	658.0	635.9	633.2	622.6	612.0
155°	668.5	651.7	649.6	641.8	633.9
157.5°	679.0	667.4	665.4	657.8	650.2
160°	683.8	674.5	673.1	667.1	661.2
162.5°	688.9	682.2	681.1	676.6	672.1
165°	696.2	693.2	692.2	688.1	684.1
167.5°	701.9	699.4	698.9	697.0	695.1
170°	706.7	706.6	706.1	704.2	702.2
172.5°	707.0	707.0	706.9	706.5	706.1
175°	709.9	711.3	711.3	711.3	711.3
177.5°	710.2	711.3	711.3	711.3	711.3
180°	711.3	711.3	711.3	711.3	711.3



TEST NUMBER: P934724

CATALOG NUMBER: SQ4-FA-075U-075D-927-1D-UNV-STD-W-8

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	11.63	12.47	12.60	13.46	14.76	14.46	15.31	15.44	16.29	17.60
	3H	12.10	12.86	13.09	13.85	15.18	15.81	16.56	16.80	17.56	18.89
	4H	12.29	13.00	13.29	14.01	15.34	16.25	16.97	17.25	17.97	19.30
	6H	12.41	13.07	13.42	14.07	15.42	16.54	17.20	17.55	18.20	19.55
	8H	12.41	13.04	13.43	14.06	15.40	16.62	17.24	17.63	18.26	19.61
	12H	12.38	12.98	13.40	13.99	15.36	16.65	17.25	17.68	18.27	19.63
4H	2H	12.66	13.37	13.66	14.37	15.71	14.87	15.58	15.88	16.59	17.92
	3H	13.68	14.28	14.70	15.31	16.65	16.38	16.97	17.39	18.00	19.35
	4H	13.96	14.50	14.98	15.53	16.89	16.90	17.45	17.93	18.47	19.84
	6H	14.08	14.55	15.12	15.60	16.96	17.27	17.74	18.30	18.79	20.15
	8H	14.09	14.52	15.12	15.56	16.94	17.38	17.82	18.41	18.85	20.24
	12H	14.05	14.45	15.11	15.50	16.89	17.44	17.83	18.49	18.88	20.27
8H	4H	14.41	14.85	15.45	15.89	17.27	17.03	17.46	18.06	18.50	19.88
	6H	14.67	15.03	15.73	16.11	17.49	17.47	17.83	18.52	18.91	20.29
	8H	14.71	15.03	15.78	16.10	17.49	17.62	17.94	18.68	19.00	20.40
	12H	14.70	14.98	15.77	16.04	17.48	17.72	18.00	18.79	19.06	20.50
12H	4H	14.42	14.81	15.47	15.87	17.25	16.99	17.39	18.04	18.44	19.83
	6H	14.73	15.05	15.80	16.12	17.51	17.46	17.78	18.53	18.85	20.24
	8H	14.80	15.08	15.87	16.14	17.58	17.62	17.90	18.69	18.96	20.40