

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: P934700

Luminaire Tested: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934700
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

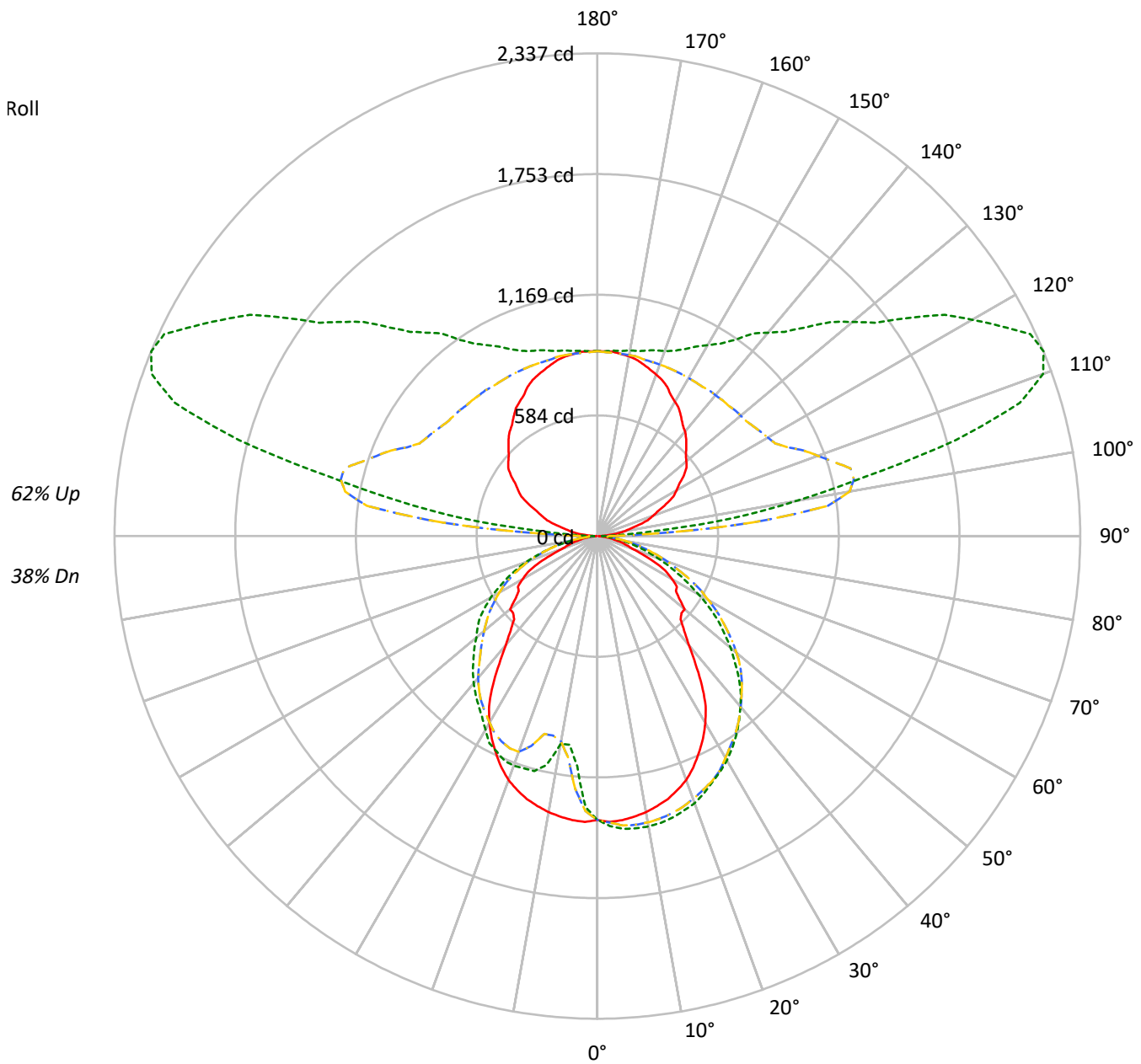
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9368.3 lumens
Efficiency: N/A
Efficacy: 136.2 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: Semi-Indirect

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: P934700
CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-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-050D-B35-1D-UNV-STD-W-8

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6374	6374	6374	6374
5°	6422	6434	6422	5059
10°	6379	6338	6379	4531
15°	6309	6201	6309	5177
20°	6177	6038	6177	5189
25°	5907	5801	5907	5079
30°	5558	5604	5558	4837
35°	4955	5355	4955	4571
40°	4129	5061	4129	4371
45°	3689	4718	3689	4141
50°	3919	4309	3919	3910
55°	3687	3868	3687	3775
60°	3801	3285	3801	3458
65°	3446	2715	3446	3035
70°	2387	2164	2387	2544
75°	2093	1600	2093	1916
80°	1684	1058	1684	1151
85°	969	560	969	476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5654 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.3
10°-20°	352.1	3.8
20°-30°	544.3	5.8
30°-40°	649.8	6.9
40°-50°	653.6	7.0
50°-60°	568.7	6.1
60°-70°	403.2	4.3
70°-80°	213.3	2.3
80°-90°	56.5	0.6
90°-100°	436.4	4.7
100°-110°	1147.2	12.2
110°-120°	1189.5	12.7
120°-130°	954.1	10.2
130°-140°	748.6	8.0
140°-150°	574.6	6.1
150°-160°	413.8	4.4
160°-170°	253.2	2.7
170°-180°	85.5	0.9
0°-30°	1020.4	10.9
0°-40°	1670.1	17.8
0°-60°	2892.4	30.9
0°-90°	3565.5	38.1
90°-120°	2773.0	29.6
90°-150°	5050.3	53.9
90°-180°	5803.0	61.9
0°-180°	9368.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1374	1374	1374	1374	1374	
5°	1380	1423	1380	1119	1380	131
15°	1318	1410	1318	1178	1318	371
25°	1161	1315	1161	1152	1161	533
35°	882	1174	882	1002	882	546
45°	569	967	569	849	569	456
55°	464	714	464	697	464	426
65°	322	430	322	481	322	308
75°	122	204	122	244	122	128
85°	21	52	21	44	21	28
90°	6	23	6	23	6	6
95°	58	264	58	264	58	64
105°	207	1796	207	1796	207	219
115°	367	2313	367	2313	367	363
125°	511	1842	511	1842	511	453
135°	608	1429	608	1429	608	471
145°	706	1160	706	1160	706	442
155°	798	998	798	998	798	367
165°	861	930	861	930	861	243
175°	895	901	895	901	895	85
180°	895	895	895	895	895	



TEST NUMBER: P934700
 CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1385.5	1385.5	1393.3	1395.9	1395.9	1392.0	1388.1	1392.0	1403.7	1407.6	1406.3
5°	1380.3	1390.7	1405.0	1407.6	1410.2	1408.9	1406.3	1408.9	1421.9	1424.5	1425.8
7.5°	1369.9	1389.4	1407.6	1411.5	1415.4	1411.5	1410.2	1412.8	1425.8	1428.4	1428.4
10°	1356.9	1384.2	1405.0	1407.6	1411.5	1407.6	1407.6	1412.8	1425.8	1428.4	1429.7
12.5°	1338.7	1376.4	1395.9	1398.5	1403.7	1402.4	1401.1	1406.3	1419.3	1421.9	1421.9
15°	1317.9	1362.1	1380.3	1382.9	1392.0	1389.4	1389.4	1394.6	1408.9	1412.8	1411.5
17.5°	1289.4	1343.9	1364.7	1368.6	1375.1	1373.8	1375.1	1380.3	1393.3	1395.9	1397.2
20°	1256.8	1319.2	1343.9	1347.8	1354.3	1354.3	1354.3	1360.8	1373.8	1379.0	1379.0
22.5°	1212.6	1293.2	1319.2	1321.8	1329.7	1329.7	1332.2	1341.3	1353.0	1354.3	1354.3
25°	1160.7	1264.6	1286.7	1294.5	1302.3	1306.2	1310.1	1315.3	1319.2	1317.9	1319.2
27.5°	1106.1	1228.2	1256.8	1262.0	1272.4	1276.4	1281.5	1282.9	1284.1	1288.0	1285.5
30°	1045.0	1177.5	1220.5	1225.7	1242.5	1245.2	1239.9	1242.5	1249.0	1251.7	1254.3
32.5°	976.1	1102.1	1182.8	1194.5	1210.1	1202.2	1201.0	1204.9	1215.2	1215.2	1217.8
35°	882.5	1043.7	1147.7	1158.1	1169.8	1160.7	1165.9	1167.2	1173.7	1177.5	1176.3
37.5°	779.9	993.0	1111.2	1119.1	1128.2	1116.5	1124.2	1128.2	1133.3	1130.7	1130.7
40°	688.9	913.7	1068.4	1073.6	1081.4	1072.3	1080.0	1082.7	1085.3	1082.7	1081.4
42.5°	621.2	826.7	1022.9	1029.4	1024.1	1030.7	1033.2	1038.5	1034.6	1029.4	1029.4
45°	569.3	803.2	973.5	981.3	973.5	983.9	987.8	987.8	976.1	973.5	972.2
47.5°	552.4	756.4	924.1	924.1	920.2	933.2	939.7	930.6	918.9	915.0	915.0
50°	551.1	704.5	856.5	851.4	869.5	885.1	878.6	869.5	860.4	846.1	846.1
52.5°	500.4	640.8	769.5	789.0	817.5	826.7	816.2	807.2	791.6	785.0	779.9
55°	464.0	574.5	690.1	729.2	759.0	770.7	751.3	742.2	718.7	714.8	712.2
57.5°	456.2	478.3	617.3	666.8	703.1	701.8	690.1	673.3	653.8	649.9	648.6
60°	418.5	345.7	539.3	597.9	635.6	631.7	621.2	605.6	587.5	584.9	582.3
62.5°	379.6	250.9	451.0	517.3	570.5	569.3	560.2	536.8	523.7	517.3	512.1
65°	322.3	210.6	321.0	430.2	506.9	509.5	490.0	473.1	458.8	451.0	449.7
67.5°	245.6	171.6	217.1	358.7	445.8	443.2	418.5	410.8	392.5	388.7	380.8
70°	182.0	114.3	150.8	291.2	386.0	379.6	360.0	351.0	334.0	324.9	319.8
72.5°	150.8	92.2	110.5	226.2	324.9	317.2	300.2	289.8	275.6	267.7	262.5
75°	122.2	97.5	84.5	167.6	263.9	258.6	243.0	232.7	220.9	210.6	211.8
77.5°	89.7	91.0	67.5	123.5	209.3	201.5	192.3	179.4	174.1	163.8	163.8
80°	67.5	71.5	50.7	84.5	150.8	150.8	142.9	133.9	124.8	119.6	119.6
82.5°	45.4	45.4	37.7	53.3	102.7	98.7	93.6	91.0	85.8	83.1	83.1
85°	20.8	26.0	23.4	32.5	55.9	58.5	58.5	55.9	54.6	52.0	53.3
87.5°	6.5	11.7	14.3	18.2	28.6	29.9	31.2	31.2	31.2	32.5	32.5
90°	6.0	10.9	15.7	16.9	26.5	39.2	45.6	40.6	30.4	22.9	22.9
92.5°	24.0	64.9	105.8	116.0	163.1	225.8	257.2	225.4	161.8	114.1	109.6
95°	57.7	132.5	207.2	225.9	401.1	634.7	751.6	670.6	508.8	387.5	373.7
97.5°	99.7	165.7	231.7	248.2	540.3	929.9	1124.6	1073.5	971.2	894.6	868.4
100°	132.2	192.0	251.8	266.8	591.0	1023.3	1239.4	1243.1	1250.6	1256.2	1225.0
102.5°	159.8	215.6	271.4	285.4	614.2	1052.6	1271.8	1336.9	1467.3	1565.0	1538.3
105°	206.7	254.0	301.2	313.0	631.4	1055.9	1268.2	1414.3	1706.3	1925.4	1911.1
107.5°	254.8	298.8	342.8	353.9	634.6	1008.9	1196.1	1399.8	1807.3	2112.9	2116.4
110°	287.2	326.9	366.7	376.7	629.8	967.3	1136.1	1363.8	1819.3	2161.0	2175.9



TEST NUMBER: P934700

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	319.0	356.9	394.8	404.3	629.9	930.9	1081.4	1314.5	1780.7	2130.3	2153.3
115°	367.1	402.0	437.0	445.7	635.8	889.2	1015.9	1240.4	1689.5	2026.4	2058.3
117.5°	414.5	446.3	478.1	486.1	647.7	863.1	970.8	1173.5	1578.8	1882.8	1918.0
120°	442.2	472.0	501.9	509.4	657.2	854.3	952.8	1138.0	1508.3	1786.1	1820.4
122.5°	469.2	499.4	529.6	537.1	671.0	849.6	939.0	1105.7	1439.3	1689.4	1723.2
125°	510.7	538.2	565.6	572.5	689.6	845.8	923.9	1065.6	1348.8	1561.3	1592.6
127.5°	544.3	572.1	599.8	606.8	708.3	843.7	911.3	1033.0	1276.2	1458.6	1484.9
130°	562.3	592.2	622.1	629.6	721.9	845.1	906.6	1014.8	1231.4	1393.8	1418.1
132.5°	580.9	610.9	640.8	648.3	733.0	845.8	902.3	999.2	1193.1	1338.5	1360.3
135°	608.5	635.8	663.1	669.9	745.0	845.1	895.2	976.4	1138.7	1260.4	1279.2
137.5°	636.8	663.8	690.7	697.5	763.0	850.3	893.9	962.5	1099.8	1202.7	1218.0
140°	660.3	685.1	709.9	716.1	773.9	851.2	889.7	949.0	1067.5	1156.5	1170.8
142.5°	678.3	701.3	724.2	729.9	783.2	854.3	889.7	941.8	1045.9	1124.0	1136.3
145°	705.9	726.0	745.9	751.0	795.3	854.3	883.7	926.4	1011.5	1075.4	1084.7
147.5°	733.5	753.0	772.6	777.4	812.9	860.1	883.7	917.3	984.2	1034.5	1042.3
150°	751.6	769.2	786.8	791.2	822.0	863.2	883.7	912.0	968.6	1011.1	1017.4
152.5°	770.2	783.5	796.9	800.2	828.0	865.1	883.7	907.9	956.2	992.4	997.2
155°	797.8	807.7	817.5	820.1	841.3	869.6	883.7	902.9	941.4	970.3	973.4
157.5°	818.2	827.8	837.4	839.8	854.5	873.9	883.7	898.7	928.6	951.0	953.2
160°	832.1	839.5	847.0	848.8	860.5	876.0	883.7	896.5	922.2	941.4	942.6
162.5°	845.8	851.5	857.1	858.5	867.0	878.1	883.7	894.6	916.2	932.4	933.5
165°	860.9	865.9	871.0	872.3	876.1	881.2	883.7	891.5	907.0	918.6	919.9
167.5°	874.7	877.1	879.6	880.1	883.3	887.6	889.7	894.8	904.9	912.6	913.1
170°	883.7	886.2	888.6	889.2	889.3	889.6	889.7	894.8	904.9	912.6	912.6
172.5°	888.6	889.1	889.6	889.7	889.7	889.7	889.7	893.7	901.8	907.8	907.3
175°	895.2	895.2	895.2	895.2	893.3	890.9	889.7	892.3	897.4	901.2	901.2
177.5°	895.2	895.2	895.2	895.2	893.7	891.9	890.9	892.9	896.9	899.9	899.4
180°	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2



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CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1408.9	1405.0	1408.9	1406.3	1407.6	1403.7	1392.0	1388.1	1392.0	1395.9	1395.9
5°	1425.8	1423.2	1425.8	1425.8	1424.5	1421.9	1408.9	1406.3	1408.9	1410.2	1407.6
7.5°	1431.0	1427.1	1431.0	1428.4	1428.4	1425.8	1412.8	1410.2	1411.5	1415.4	1411.5
10°	1431.0	1427.1	1431.0	1429.7	1428.4	1425.8	1412.8	1407.6	1407.6	1411.5	1407.6
12.5°	1424.5	1421.9	1424.5	1421.9	1421.9	1419.3	1406.3	1401.1	1402.4	1403.7	1398.5
15°	1414.1	1410.2	1414.1	1411.5	1412.8	1408.9	1394.6	1389.4	1389.4	1392.0	1382.9
17.5°	1398.5	1393.3	1398.5	1397.2	1395.9	1393.3	1380.3	1375.1	1373.8	1375.1	1368.6
20°	1380.3	1376.4	1380.3	1379.0	1379.0	1373.8	1360.8	1354.3	1354.3	1354.3	1347.8
22.5°	1351.8	1347.8	1351.8	1354.3	1354.3	1353.0	1341.3	1332.2	1329.7	1329.7	1321.8
25°	1319.2	1315.3	1319.2	1319.2	1317.9	1319.2	1315.3	1310.1	1306.2	1302.3	1294.5
27.5°	1288.0	1285.5	1288.0	1285.5	1288.0	1284.1	1282.9	1281.5	1276.4	1272.4	1262.0
30°	1256.8	1254.3	1256.8	1254.3	1251.7	1249.0	1242.5	1239.9	1245.2	1242.5	1225.7
32.5°	1217.8	1215.2	1217.8	1217.8	1215.2	1215.2	1204.9	1201.0	1202.2	1210.1	1194.5
35°	1177.5	1173.7	1177.5	1176.3	1177.5	1173.7	1167.2	1165.9	1160.7	1169.8	1158.1
37.5°	1130.7	1126.9	1130.7	1130.7	1130.7	1133.3	1128.2	1124.2	1116.5	1128.2	1119.1
40°	1082.7	1077.4	1082.7	1081.4	1082.7	1085.3	1082.7	1080.0	1072.3	1081.4	1073.6
42.5°	1028.1	1026.8	1028.1	1029.4	1029.4	1034.6	1038.5	1033.2	1030.7	1024.1	1029.4
45°	969.6	967.0	969.6	972.2	973.5	976.1	987.8	987.8	983.9	973.5	981.3
47.5°	907.2	900.7	907.2	915.0	915.0	918.9	930.6	939.7	933.2	920.2	924.1
50°	840.9	842.3	840.9	846.1	846.1	860.4	869.5	878.6	885.1	869.5	851.4
52.5°	776.0	774.6	776.0	779.9	785.0	791.6	807.2	816.2	826.7	817.5	789.0
55°	711.0	713.6	711.0	712.2	714.8	718.7	742.2	751.3	770.7	759.0	729.2
57.5°	645.9	642.1	645.9	648.6	649.9	653.8	673.3	690.1	701.8	703.1	666.8
60°	570.5	565.4	570.5	582.3	584.9	587.5	605.6	621.2	631.7	635.6	597.9
62.5°	504.3	495.2	504.3	512.1	517.3	523.7	536.8	560.2	569.3	570.5	517.3
65°	434.1	430.2	434.1	449.7	451.0	458.8	473.1	490.0	509.5	506.9	430.2
67.5°	370.4	370.4	370.4	380.8	388.7	392.5	410.8	418.5	443.2	445.8	358.7
70°	311.9	310.7	311.9	319.8	324.9	334.0	351.0	360.0	379.6	386.0	291.2
72.5°	256.0	254.8	256.0	262.5	267.7	275.6	289.8	300.2	317.2	324.9	226.2
75°	206.7	204.1	206.7	211.8	210.6	220.9	232.7	243.0	258.6	263.9	167.6
77.5°	158.5	158.5	158.5	163.8	163.8	174.1	179.4	192.3	201.5	209.3	123.5
80°	118.3	117.0	118.3	119.6	119.6	124.8	133.9	142.9	150.8	150.8	84.5
82.5°	83.1	80.6	83.1	83.1	83.1	85.8	91.0	93.6	98.7	102.7	53.3
85°	52.0	52.0	52.0	53.3	52.0	54.6	55.9	58.5	58.5	55.9	32.5
87.5°	33.8	32.5	33.8	32.5	32.5	31.2	31.2	31.2	29.9	28.6	18.2
90°	22.9	22.9	22.9	22.9	22.9	30.4	40.6	45.6	39.2	26.5	16.9
92.5°	91.5	73.3	91.5	109.6	114.1	161.8	225.4	257.2	225.8	163.1	116.0
95°	318.8	263.8	318.8	373.7	387.5	508.8	670.6	751.6	634.7	401.1	225.9
97.5°	763.7	659.0	763.7	868.4	894.6	971.2	1073.5	1124.6	929.9	540.3	248.2
100°	1100.4	975.7	1100.4	1225.0	1256.2	1250.6	1243.1	1239.4	1023.3	591.0	266.8
102.5°	1431.5	1324.7	1431.5	1538.3	1565.0	1467.3	1336.9	1271.8	1052.6	614.2	285.4
105°	1853.6	1796.2	1853.6	1911.1	1925.4	1706.3	1414.3	1268.2	1055.9	631.4	313.0
107.5°	2130.2	2144.1	2130.2	2116.4	2112.9	1807.3	1399.8	1196.1	1008.9	634.6	353.9
110°	2235.8	2295.6	2235.8	2175.9	2161.0	1819.3	1363.8	1136.1	967.3	629.8	376.7



TEST NUMBER: P934700

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2245.1	2336.9	2245.1	2153.3	2130.3	1780.7	1314.5	1081.4	930.9	629.9	404.3
115°	2185.6	2312.9	2185.6	2058.3	2026.4	1689.5	1240.4	1015.9	889.2	635.8	445.7
117.5°	2059.3	2200.6	2059.3	1918.0	1882.8	1578.8	1173.5	970.8	863.1	647.7	486.1
120°	1957.7	2094.9	1957.7	1820.4	1786.1	1508.3	1138.0	952.8	854.3	657.2	509.4
122.5°	1858.5	1993.9	1858.5	1723.2	1689.4	1439.3	1105.7	939.0	849.6	671.0	537.1
125°	1717.3	1842.0	1717.3	1592.6	1561.3	1348.8	1065.6	923.9	845.8	689.6	572.5
127.5°	1590.1	1695.4	1590.1	1484.9	1458.6	1276.2	1033.0	911.3	843.7	708.3	606.8
130°	1515.2	1612.4	1515.2	1418.1	1393.8	1231.4	1014.8	906.6	845.1	721.9	629.6
132.5°	1447.3	1534.3	1447.3	1360.3	1338.5	1193.1	999.2	902.3	845.8	733.0	648.3
135°	1354.2	1429.2	1354.2	1279.2	1260.4	1138.7	976.4	895.2	845.1	745.0	669.9
137.5°	1279.5	1340.9	1279.5	1218.0	1202.7	1099.8	962.5	893.9	850.3	763.0	697.5
140°	1228.3	1285.7	1228.3	1170.8	1156.5	1067.5	949.0	889.7	851.2	773.9	716.1
142.5°	1185.8	1235.2	1185.8	1136.3	1124.0	1045.9	941.8	889.7	854.3	783.2	729.9
145°	1122.1	1159.5	1122.1	1084.7	1075.4	1011.5	926.4	883.7	854.3	795.3	751.0
147.5°	1073.2	1104.2	1073.2	1042.3	1034.5	984.2	917.3	883.7	860.1	812.9	777.4
150°	1042.5	1067.5	1042.5	1017.4	1011.1	968.6	912.0	883.7	863.2	822.0	791.2
152.5°	1016.1	1035.1	1016.1	997.2	992.4	956.2	907.9	883.7	865.1	828.0	800.2
155°	986.0	998.5	986.0	973.4	970.3	941.4	902.9	883.7	869.6	841.3	820.1
157.5°	962.0	970.8	962.0	953.2	951.0	928.6	898.7	883.7	873.9	854.5	839.8
160°	947.8	952.8	947.8	942.6	941.4	922.2	896.5	883.7	876.0	860.5	848.8
162.5°	938.4	943.2	938.4	933.5	932.4	916.2	894.6	883.7	878.1	867.0	858.5
165°	924.9	929.9	924.9	919.9	918.6	907.0	891.5	883.7	881.2	876.1	872.3
167.5°	915.2	917.4	915.2	913.1	912.6	904.9	894.8	889.7	887.6	883.3	880.1
170°	912.6	912.6	912.6	912.6	912.6	904.9	894.8	889.7	889.6	889.3	889.2
172.5°	905.4	903.6	905.4	907.3	907.8	901.8	893.7	889.7	889.7	889.7	889.7
175°	901.2	901.2	901.2	901.2	901.2	897.4	892.3	889.7	890.9	893.3	895.2
177.5°	897.3	895.2	897.3	899.4	899.9	896.9	892.9	890.9	891.9	893.7	895.2
180°	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2



TEST NUMBER: P934700

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1393.3	1385.5	1385.5	1372.5	1367.4	1363.4	1356.9	1337.4	1332.2	1327.0	1334.8
5°	1405.0	1390.7	1380.3	1356.9	1337.4	1329.7	1305.0	1258.1	1226.9	1203.5	1190.5
7.5°	1407.6	1389.4	1369.9	1333.5	1286.7	1265.9	1190.5	1104.8	1081.4	1060.6	1047.6
10°	1405.0	1384.2	1356.9	1302.3	1191.9	1155.4	1080.0	1024.1	1009.9	1006.0	1009.9
12.5°	1395.9	1376.4	1338.7	1247.8	1093.0	1068.4	1024.1	991.7	989.1	995.6	1030.7
15°	1380.3	1362.1	1317.9	1174.9	1038.5	1020.3	989.1	977.4	991.7	1037.2	1142.5
17.5°	1364.7	1343.9	1289.4	1103.5	996.9	983.9	961.8	985.2	1065.8	1126.9	1161.9
20°	1343.9	1319.2	1256.8	1051.5	967.0	955.3	944.9	1050.2	1111.2	1133.3	1152.8
22.5°	1319.2	1293.2	1212.6	1015.1	935.8	926.8	933.2	1086.5	1111.2	1126.9	1143.7
25°	1286.7	1264.6	1160.7	986.5	911.2	900.7	925.4	1082.7	1097.0	1100.9	1134.7
27.5°	1256.8	1228.2	1106.1	960.5	881.2	877.3	931.9	1065.8	1076.2	1080.0	1116.5
30°	1220.5	1177.5	1045.0	933.2	850.0	848.7	933.2	1045.0	1042.4	1052.8	1089.2
32.5°	1182.8	1102.1	976.1	899.4	820.2	818.8	924.1	1013.8	1011.2	1025.5	1052.8
35°	1147.7	1043.7	882.5	860.4	782.5	783.7	902.0	977.4	978.7	991.7	1008.6
37.5°	1111.2	993.0	779.9	817.5	746.0	746.0	872.1	943.6	941.0	944.9	968.3
40°	1068.4	913.7	688.9	761.6	712.2	708.3	835.8	907.2	898.1	896.8	929.3
42.5°	1022.9	826.7	621.2	687.6	673.3	668.0	791.6	863.0	846.1	850.0	891.6
45°	973.5	803.2	569.3	581.0	633.0	629.1	743.4	812.3	800.6	811.1	853.9
47.5°	924.1	756.4	552.4	482.2	590.1	588.8	690.1	762.9	756.4	766.9	812.3
50°	856.5	704.5	551.1	413.3	542.0	547.2	626.5	714.8	714.8	723.9	772.0
52.5°	769.5	640.8	500.4	374.3	486.1	501.7	570.5	673.3	675.9	685.0	727.8
55°	690.1	574.5	464.0	344.4	419.8	453.6	516.0	630.3	635.6	644.7	683.6
57.5°	617.3	478.3	456.2	309.3	358.7	391.2	467.9	588.8	591.4	599.1	636.8
60°	539.3	345.7	418.5	271.6	305.4	330.1	423.7	539.3	548.5	553.7	586.1
62.5°	451.0	250.9	379.6	245.6	279.5	284.6	387.3	492.6	504.3	508.2	527.7
65°	321.0	210.6	322.3	223.5	252.1	253.5	348.4	444.5	454.9	461.4	475.7
67.5°	217.1	171.6	245.6	202.7	231.4	232.7	310.7	388.7	402.9	408.1	417.3
70°	150.8	114.3	182.0	180.6	207.9	210.6	270.4	337.9	351.0	354.8	360.0
72.5°	110.5	92.2	150.8	162.5	183.2	185.9	228.8	280.7	293.7	297.7	300.2
75°	84.5	97.5	122.2	141.7	156.0	157.3	187.1	228.8	237.9	240.4	241.8
77.5°	67.5	91.0	89.7	114.3	127.3	124.8	146.9	176.7	184.6	184.6	184.6
80°	50.7	71.5	67.5	81.9	93.6	91.0	105.2	126.1	128.7	131.3	129.9
82.5°	37.7	45.4	45.4	52.0	62.4	59.8	70.2	81.9	81.9	81.9	84.5
85°	23.4	26.0	20.8	27.3	35.1	33.8	39.0	44.2	45.4	45.4	42.9
87.5°	14.3	11.7	6.5	10.4	15.6	15.6	18.2	19.5	18.2	18.2	18.2
90°	15.7	10.9	6.0	10.9	15.7	16.9	26.5	39.2	45.6	40.6	30.4
92.5°	105.8	64.9	24.0	64.9	105.8	116.0	163.1	225.8	257.2	225.4	161.8
95°	207.2	132.5	57.7	132.5	207.2	225.9	401.1	634.7	751.6	670.6	508.8
97.5°	231.7	165.7	99.7	165.7	231.7	248.2	540.3	929.9	1124.6	1073.5	971.2
100°	251.8	192.0	132.2	192.0	251.8	266.8	591.0	1023.3	1239.4	1243.1	1250.6
102.5°	271.4	215.6	159.8	215.6	271.4	285.4	614.2	1052.6	1271.8	1336.9	1467.3
105°	301.2	254.0	206.7	254.0	301.2	313.0	631.4	1055.9	1268.2	1414.3	1706.3
107.5°	342.8	298.8	254.8	298.8	342.8	353.9	634.6	1008.9	1196.1	1399.8	1807.3
110°	366.7	326.9	287.2	326.9	366.7	376.7	629.8	967.3	1136.1	1363.8	1819.3



TEST NUMBER: P934700

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	394.8	356.9	319.0	356.9	394.8	404.3	629.9	930.9	1081.4	1314.5	1780.7
115°	437.0	402.0	367.1	402.0	437.0	445.7	635.8	889.2	1015.9	1240.4	1689.5
117.5°	478.1	446.3	414.5	446.3	478.1	486.1	647.7	863.1	970.8	1173.5	1578.8
120°	501.9	472.0	442.2	472.0	501.9	509.4	657.2	854.3	952.8	1138.0	1508.3
122.5°	529.6	499.4	469.2	499.4	529.6	537.1	671.0	849.6	939.0	1105.7	1439.3
125°	565.6	538.2	510.7	538.2	565.6	572.5	689.6	845.8	923.9	1065.6	1348.8
127.5°	599.8	572.1	544.3	572.1	599.8	606.8	708.3	843.7	911.3	1033.0	1276.2
130°	622.1	592.2	562.3	592.2	622.1	629.6	721.9	845.1	906.6	1014.8	1231.4
132.5°	640.8	610.9	580.9	610.9	640.8	648.3	733.0	845.8	902.3	999.2	1193.1
135°	663.1	635.8	608.5	635.8	663.1	669.9	745.0	845.1	895.2	976.4	1138.7
137.5°	690.7	663.8	636.8	663.8	690.7	697.5	763.0	850.3	893.9	962.5	1099.8
140°	709.9	685.1	660.3	685.1	709.9	716.1	773.9	851.2	889.7	949.0	1067.5
142.5°	724.2	701.3	678.3	701.3	724.2	729.9	783.2	854.3	889.7	941.8	1045.9
145°	745.9	726.0	705.9	726.0	745.9	751.0	795.3	854.3	883.7	926.4	1011.5
147.5°	772.6	753.0	733.5	753.0	772.6	777.4	812.9	860.1	883.7	917.3	984.2
150°	786.8	769.2	751.6	769.2	786.8	791.2	822.0	863.2	883.7	912.0	968.6
152.5°	796.9	783.5	770.2	783.5	796.9	800.2	828.0	865.1	883.7	907.9	956.2
155°	817.5	807.7	797.8	807.7	817.5	820.1	841.3	869.6	883.7	902.9	941.4
157.5°	837.4	827.8	818.2	827.8	837.4	839.8	854.5	873.9	883.7	898.7	928.6
160°	847.0	839.5	832.1	839.5	847.0	848.8	860.5	876.0	883.7	896.5	922.2
162.5°	857.1	851.5	845.8	851.5	857.1	858.5	867.0	878.1	883.7	894.6	916.2
165°	871.0	865.9	860.9	865.9	871.0	872.3	876.1	881.2	883.7	891.5	907.0
167.5°	879.6	877.1	874.7	877.1	879.6	880.1	883.3	887.6	889.7	894.8	904.9
170°	888.6	886.2	883.7	886.2	888.6	889.2	889.3	889.6	889.7	894.8	904.9
172.5°	889.6	889.1	888.6	889.1	889.6	889.7	889.7	889.7	889.7	893.7	901.8
175°	895.2	895.2	895.2	895.2	895.2	895.2	893.3	890.9	889.7	892.3	897.4
177.5°	895.2	895.2	895.2	895.2	895.2	895.2	893.7	891.9	890.9	892.9	896.9
180°	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2



TEST NUMBER: P934700
 CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1325.7	1321.8	1327.0	1312.7	1327.0	1321.8	1325.7	1334.8	1327.0	1332.2	1337.4
5°	1163.3	1156.8	1136.0	1119.1	1136.0	1156.8	1163.3	1190.5	1203.5	1226.9	1258.1
7.5°	1039.7	1034.6	1029.4	1019.0	1029.4	1034.6	1039.7	1047.6	1060.6	1081.4	1104.8
10°	1012.5	1013.8	1021.6	1020.3	1021.6	1013.8	1012.5	1009.9	1006.0	1009.9	1024.1
12.5°	1082.7	1094.4	1137.2	1134.7	1137.2	1094.4	1082.7	1030.7	995.6	989.1	991.7
15°	1163.3	1167.2	1176.3	1177.5	1176.3	1167.2	1163.3	1142.5	1037.2	991.7	977.4
17.5°	1171.0	1172.4	1178.9	1178.9	1178.9	1172.4	1171.0	1161.9	1126.9	1065.8	985.2
20°	1164.5	1167.2	1180.1	1182.8	1180.1	1167.2	1164.5	1152.8	1133.3	1111.2	1050.2
22.5°	1161.9	1167.2	1177.5	1176.3	1177.5	1167.2	1161.9	1143.7	1126.9	1111.2	1086.5
25°	1148.9	1148.9	1150.3	1151.6	1150.3	1148.9	1148.9	1134.7	1100.9	1097.0	1082.7
27.5°	1121.6	1124.2	1132.1	1130.7	1132.1	1124.2	1121.6	1116.5	1080.0	1076.2	1065.8
30°	1097.0	1094.4	1087.9	1082.7	1087.9	1094.4	1097.0	1089.2	1052.8	1042.4	1045.0
32.5°	1055.3	1048.8	1042.4	1038.5	1042.4	1048.8	1055.3	1052.8	1025.5	1011.2	1013.8
35°	1006.0	1007.3	1006.0	1002.0	1006.0	1007.3	1006.0	1008.6	991.7	978.7	977.4
37.5°	970.9	973.5	972.2	967.0	972.2	973.5	970.9	968.3	944.9	941.0	943.6
40°	934.5	935.8	934.5	930.6	934.5	935.8	934.5	929.3	896.8	898.1	907.2
42.5°	899.4	898.1	894.2	891.6	894.2	898.1	899.4	891.6	850.0	846.1	863.0
45°	859.1	860.4	852.6	848.7	852.6	860.4	859.1	853.9	811.1	800.6	812.3
47.5°	818.8	818.8	812.3	808.4	812.3	818.8	818.8	812.3	766.9	756.4	762.9
50°	776.0	774.6	765.5	764.3	765.5	774.6	776.0	772.0	723.9	714.8	714.8
52.5°	726.6	726.6	727.8	730.4	727.8	726.6	726.6	727.8	685.0	675.9	673.3
55°	683.6	685.0	694.1	696.6	694.1	685.0	683.6	683.6	644.7	635.6	630.3
57.5°	639.4	639.4	645.9	645.9	645.9	639.4	639.4	636.8	599.1	591.4	588.8
60°	588.8	591.4	596.6	595.3	596.6	591.4	588.8	586.1	553.7	548.5	539.3
62.5°	535.5	538.1	539.3	536.8	539.3	538.1	535.5	527.7	508.2	504.3	492.6
65°	479.6	482.2	483.5	480.9	483.5	482.2	479.6	475.7	461.4	454.9	444.5
67.5°	422.4	421.1	419.8	425.0	419.8	421.1	422.4	417.3	408.1	402.9	388.7
70°	364.0	364.0	362.6	365.2	362.6	364.0	364.0	360.0	354.8	351.0	337.9
72.5°	301.6	300.2	305.4	301.6	305.4	300.2	301.6	300.2	297.7	293.7	280.7
75°	240.4	243.0	240.4	244.4	240.4	243.0	240.4	241.8	240.4	237.9	228.8
77.5°	183.2	185.9	183.2	183.2	183.2	185.9	183.2	184.6	184.6	184.6	176.7
80°	129.9	128.7	128.7	127.3	128.7	128.7	129.9	129.9	131.3	128.7	126.1
82.5°	83.1	81.9	81.9	84.5	81.9	81.9	83.1	84.5	81.9	81.9	81.9
85°	45.4	46.8	44.2	44.2	44.2	46.8	45.4	42.9	45.4	45.4	44.2
87.5°	16.9	15.6	15.6	15.6	15.6	15.6	16.9	18.2	18.2	18.2	19.5
90°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	30.4	40.6	45.6	39.2
92.5°	114.1	109.6	91.5	73.3	91.5	109.6	114.1	161.8	225.4	257.2	225.8
95°	387.5	373.7	318.8	263.8	318.8	373.7	387.5	508.8	670.6	751.6	634.7
97.5°	894.6	868.4	763.7	659.0	763.7	868.4	894.6	971.2	1073.5	1124.6	929.9
100°	1256.2	1225.0	1100.4	975.7	1100.4	1225.0	1256.2	1250.6	1243.1	1239.4	1023.3
102.5°	1565.0	1538.3	1431.5	1324.7	1431.5	1538.3	1565.0	1467.3	1336.9	1271.8	1052.6
105°	1925.4	1911.1	1853.6	1796.2	1853.6	1911.1	1925.4	1706.3	1414.3	1268.2	1055.9
107.5°	2112.9	2116.4	2130.2	2144.1	2130.2	2116.4	2112.9	1807.3	1399.8	1196.1	1008.9
110°	2161.0	2175.9	2235.8	2295.6	2235.8	2175.9	2161.0	1819.3	1363.8	1136.1	967.3



TEST NUMBER: P934700

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2130.3	2153.3	2245.1	2336.9	2245.1	2153.3	2130.3	1780.7	1314.5	1081.4	930.9
115°	2026.4	2058.3	2185.6	2312.9	2185.6	2058.3	2026.4	1689.5	1240.4	1015.9	889.2
117.5°	1882.8	1918.0	2059.3	2200.6	2059.3	1918.0	1882.8	1578.8	1173.5	970.8	863.1
120°	1786.1	1820.4	1957.7	2094.9	1957.7	1820.4	1786.1	1508.3	1138.0	952.8	854.3
122.5°	1689.4	1723.2	1858.5	1993.9	1858.5	1723.2	1689.4	1439.3	1105.7	939.0	849.6
125°	1561.3	1592.6	1717.3	1842.0	1717.3	1592.6	1561.3	1348.8	1065.6	923.9	845.8
127.5°	1458.6	1484.9	1590.1	1695.4	1590.1	1484.9	1458.6	1276.2	1033.0	911.3	843.7
130°	1393.8	1418.1	1515.2	1612.4	1515.2	1418.1	1393.8	1231.4	1014.8	906.6	845.1
132.5°	1338.5	1360.3	1447.3	1534.3	1447.3	1360.3	1338.5	1193.1	999.2	902.3	845.8
135°	1260.4	1279.2	1354.2	1429.2	1354.2	1279.2	1260.4	1138.7	976.4	895.2	845.1
137.5°	1202.7	1218.0	1279.5	1340.9	1279.5	1218.0	1202.7	1099.8	962.5	893.9	850.3
140°	1156.5	1170.8	1228.3	1285.7	1228.3	1170.8	1156.5	1067.5	949.0	889.7	851.2
142.5°	1124.0	1136.3	1185.8	1235.2	1185.8	1136.3	1124.0	1045.9	941.8	889.7	854.3
145°	1075.4	1084.7	1122.1	1159.5	1122.1	1084.7	1075.4	1011.5	926.4	883.7	854.3
147.5°	1034.5	1042.3	1073.2	1104.2	1073.2	1042.3	1034.5	984.2	917.3	883.7	860.1
150°	1011.1	1017.4	1042.5	1067.5	1042.5	1017.4	1011.1	968.6	912.0	883.7	863.2
152.5°	992.4	997.2	1016.1	1035.1	1016.1	997.2	992.4	956.2	907.9	883.7	865.1
155°	970.3	973.4	986.0	998.5	986.0	973.4	970.3	941.4	902.9	883.7	869.6
157.5°	951.0	953.2	962.0	970.8	962.0	953.2	951.0	928.6	898.7	883.7	873.9
160°	941.4	942.6	947.8	952.8	947.8	942.6	941.4	922.2	896.5	883.7	876.0
162.5°	932.4	933.5	938.4	943.2	938.4	933.5	932.4	916.2	894.6	883.7	878.1
165°	918.6	919.9	924.9	929.9	924.9	919.9	918.6	907.0	891.5	883.7	881.2
167.5°	912.6	913.1	915.2	917.4	915.2	913.1	912.6	904.9	894.8	889.7	887.6
170°	912.6	912.6	912.6	912.6	912.6	912.6	912.6	904.9	894.8	889.7	889.6
172.5°	907.8	907.3	905.4	903.6	905.4	907.3	907.8	901.8	893.7	889.7	889.7
175°	901.2	901.2	901.2	901.2	901.2	901.2	901.2	897.4	892.3	889.7	890.9
177.5°	899.9	899.4	897.3	895.2	897.3	899.4	899.9	896.9	892.9	890.9	891.9
180°	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2	895.2



TEST NUMBER: P934700
 CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1356.9	1363.4	1367.4	1372.5	1385.5
5°	1305.0	1329.7	1337.4	1356.9	1380.3
7.5°	1190.5	1265.9	1286.7	1333.5	1369.9
10°	1080.0	1155.4	1191.9	1302.3	1356.9
12.5°	1024.1	1068.4	1093.0	1247.8	1338.7
15°	989.1	1020.3	1038.5	1174.9	1317.9
17.5°	961.8	983.9	996.9	1103.5	1289.4
20°	944.9	955.3	967.0	1051.5	1256.8
22.5°	933.2	926.8	935.8	1015.1	1212.6
25°	925.4	900.7	911.2	986.5	1160.7
27.5°	931.9	877.3	881.2	960.5	1106.1
30°	933.2	848.7	850.0	933.2	1045.0
32.5°	924.1	818.8	820.2	899.4	976.1
35°	902.0	783.7	782.5	860.4	882.5
37.5°	872.1	746.0	746.0	817.5	779.9
40°	835.8	708.3	712.2	761.6	688.9
42.5°	791.6	668.0	673.3	687.6	621.2
45°	743.4	629.1	633.0	581.0	569.3
47.5°	690.1	588.8	590.1	482.2	552.4
50°	626.5	547.2	542.0	413.3	551.1
52.5°	570.5	501.7	486.1	374.3	500.4
55°	516.0	453.6	419.8	344.4	464.0
57.5°	467.9	391.2	358.7	309.3	456.2
60°	423.7	330.1	305.4	271.6	418.5
62.5°	387.3	284.6	279.5	245.6	379.6
65°	348.4	253.5	252.1	223.5	322.3
67.5°	310.7	232.7	231.4	202.7	245.6
70°	270.4	210.6	207.9	180.6	182.0
72.5°	228.8	185.9	183.2	162.5	150.8
75°	187.1	157.3	156.0	141.7	122.2
77.5°	146.9	124.8	127.3	114.3	89.7
80°	105.2	91.0	93.6	81.9	67.5
82.5°	70.2	59.8	62.4	52.0	45.4
85°	39.0	33.8	35.1	27.3	20.8
87.5°	18.2	15.6	15.6	10.4	6.5
90°	26.5	16.9	15.7	10.9	6.0
92.5°	163.1	116.0	105.8	64.9	24.0
95°	401.1	225.9	207.2	132.5	57.7
97.5°	540.3	248.2	231.7	165.7	99.7
100°	591.0	266.8	251.8	192.0	132.2
102.5°	614.2	285.4	271.4	215.6	159.8
105°	631.4	313.0	301.2	254.0	206.7
107.5°	634.6	353.9	342.8	298.8	254.8
110°	629.8	376.7	366.7	326.9	287.2



TEST NUMBER: P934700

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	629.9	404.3	394.8	356.9	319.0
115°	635.8	445.7	437.0	402.0	367.1
117.5°	647.7	486.1	478.1	446.3	414.5
120°	657.2	509.4	501.9	472.0	442.2
122.5°	671.0	537.1	529.6	499.4	469.2
125°	689.6	572.5	565.6	538.2	510.7
127.5°	708.3	606.8	599.8	572.1	544.3
130°	721.9	629.6	622.1	592.2	562.3
132.5°	733.0	648.3	640.8	610.9	580.9
135°	745.0	669.9	663.1	635.8	608.5
137.5°	763.0	697.5	690.7	663.8	636.8
140°	773.9	716.1	709.9	685.1	660.3
142.5°	783.2	729.9	724.2	701.3	678.3
145°	795.3	751.0	745.9	726.0	705.9
147.5°	812.9	777.4	772.6	753.0	733.5
150°	822.0	791.2	786.8	769.2	751.6
152.5°	828.0	800.2	796.9	783.5	770.2
155°	841.3	820.1	817.5	807.7	797.8
157.5°	854.5	839.8	837.4	827.8	818.2
160°	860.5	848.8	847.0	839.5	832.1
162.5°	867.0	858.5	857.1	851.5	845.8
165°	876.1	872.3	871.0	865.9	860.9
167.5°	883.3	880.1	879.6	877.1	874.7
170°	889.3	889.2	888.6	886.2	883.7
172.5°	889.7	889.7	889.6	889.1	888.6
175°	893.3	895.2	895.2	895.2	895.2
177.5°	893.7	895.2	895.2	895.2	895.2
180°	895.2	895.2	895.2	895.2	895.2



TEST NUMBER: P934700
 CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-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	10.03	10.79	11.08	11.85	13.28	12.86	13.63	13.92	14.68	16.12
	3H	10.50	11.18	11.56	12.24	13.70	14.20	14.89	15.27	15.95	17.40
	4H	10.68	11.33	11.76	12.40	13.86	14.65	15.29	15.72	16.36	17.82
	6H	10.80	11.39	11.88	12.46	13.93	14.93	15.52	16.01	16.60	18.06
	8H	10.79	11.36	11.88	12.45	13.91	15.00	15.57	16.09	16.65	18.12
	12H	10.76	11.30	11.85	12.38	13.87	15.04	15.58	16.13	16.66	18.14
4H	2H	11.05	11.70	12.13	12.76	14.22	13.26	13.91	14.34	14.98	16.43
	3H	12.07	12.61	13.15	13.70	15.17	14.76	15.30	15.85	16.39	17.87
	4H	12.34	12.83	13.43	13.92	15.41	15.29	15.78	16.38	16.87	18.36
	6H	12.46	12.88	13.56	13.99	15.48	15.65	16.07	16.75	17.18	18.67
	8H	12.46	12.86	13.56	13.96	15.46	15.75	16.15	16.85	17.25	18.75
	12H	12.42	12.78	13.54	13.90	15.40	15.81	16.16	16.92	17.28	18.78
8H	4H	12.78	13.18	13.89	14.28	15.78	15.40	15.80	16.50	16.90	18.40
	6H	13.04	13.37	14.17	14.51	16.01	15.84	16.16	16.96	17.31	18.80
	8H	13.08	13.37	14.21	14.49	16.01	15.99	16.27	17.12	17.40	18.92
	12H	13.06	13.32	14.20	14.44	15.99	16.08	16.34	17.22	17.46	19.01
12H	4H	12.79	13.15	13.91	14.26	15.77	15.36	15.72	16.48	16.83	18.34
	6H	13.10	13.39	14.23	14.51	16.03	15.83	16.12	16.96	17.24	18.76
	8H	13.16	13.42	14.30	14.54	16.09	15.99	16.24	17.12	17.36	18.92