

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: P934612

Luminaire Tested: SQ4-FA-075U-050D-830-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934612
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-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

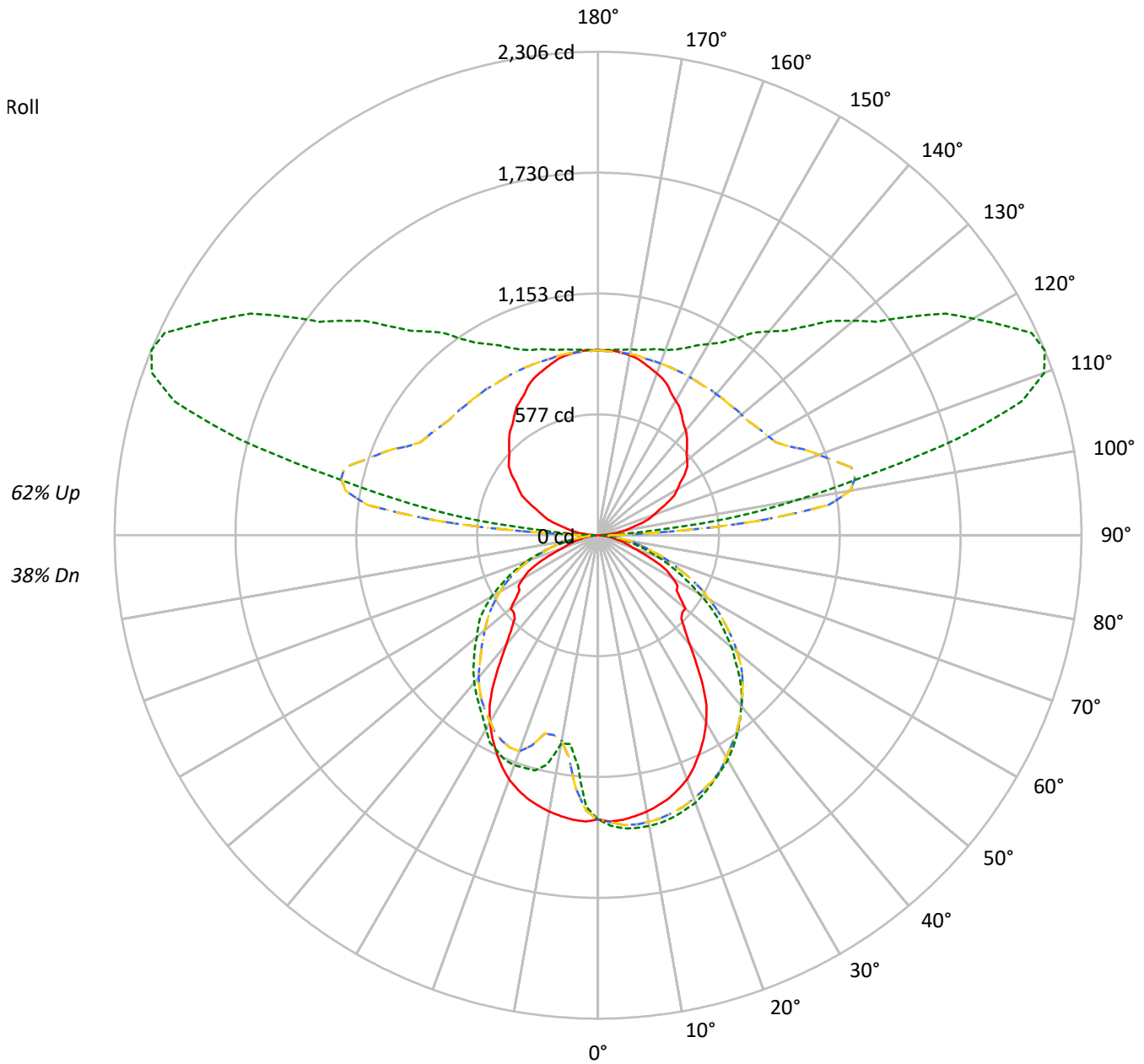
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9242.6 lumens
Efficiency: N/A
Efficacy: 134.3 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

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	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°	6289	6289	6289	6289
5°	6335	6348	6335	4992
10°	6293	6253	6293	4470
15°	6225	6118	6225	5108
20°	6094	5957	6094	5119
25°	5828	5723	5828	5010
30°	5484	5529	5484	4772
35°	4888	5283	4888	4510
40°	4073	4993	4073	4313
45°	3639	4655	3639	4086
50°	3867	4251	3867	3857
55°	3637	3816	3637	3725
60°	3750	3241	3750	3412
65°	3400	2679	3400	2995
70°	2354	2135	2354	2510
75°	2066	1578	2066	1890
80°	1662	1043	1662	1135
85°	960	553	960	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5578 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	1.3
10°-20°	347.4	3.8
20°-30°	537.0	5.8
30°-40°	641.0	6.9
40°-50°	644.8	7.0
50°-60°	561.1	6.1
60°-70°	397.8	4.3
70°-80°	210.5	2.3
80°-90°	55.8	0.6
90°-100°	430.5	4.7
100°-110°	1131.8	12.2
110°-120°	1173.5	12.7
120°-130°	941.3	10.2
130°-140°	738.6	8.0
140°-150°	566.9	6.1
150°-160°	408.3	4.4
160°-170°	249.8	2.7
170°-180°	84.4	0.9
0°-30°	1006.7	10.9
0°-40°	1647.7	17.8
0°-60°	2853.6	30.9
0°-90°	3517.6	38.1
90°-120°	2735.8	29.6
90°-150°	4982.6	53.9
90°-180°	5725.0	61.9
0°-180°	9242.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1355	1355	1355	1355	1355	
5°	1362	1404	1362	1104	1362	129
15°	1300	1391	1300	1162	1300	366
25°	1145	1298	1145	1136	1145	526
35°	871	1158	871	989	871	539
45°	562	954	562	837	562	450
55°	458	704	458	687	458	421
65°	318	424	318	474	318	304
75°	121	201	121	241	121	127
85°	21	51	21	44	21	28
90°	6	23	6	23	6	6
95°	57	260	57	260	57	63
105°	204	1772	204	1772	204	216
115°	362	2282	362	2282	362	358
125°	504	1817	504	1817	504	447
135°	600	1410	600	1410	600	465
145°	696	1144	696	1144	696	436
155°	787	985	787	985	787	362
165°	849	918	849	918	849	240
175°	883	889	883	889	883	84
180°	883	883	883	883	883	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1366.9	1366.9	1374.6	1377.2	1377.2	1373.3	1369.5	1373.3	1384.9	1388.7	1387.4
5°	1361.8	1372.1	1386.2	1388.7	1391.3	1390.0	1387.4	1390.0	1402.8	1405.4	1406.7
7.5°	1351.5	1370.8	1388.7	1392.6	1396.4	1392.6	1391.3	1393.8	1406.7	1409.2	1409.2
10°	1338.7	1365.6	1386.2	1388.7	1392.6	1388.7	1388.7	1393.8	1406.7	1409.2	1410.5
12.5°	1320.7	1357.9	1377.2	1379.7	1384.9	1383.6	1382.3	1387.4	1400.3	1402.8	1402.8
15°	1300.3	1343.8	1361.8	1364.3	1373.3	1370.8	1370.8	1375.9	1390.0	1393.8	1392.6
17.5°	1272.1	1325.9	1346.4	1350.3	1356.7	1355.4	1356.7	1361.8	1374.6	1377.2	1378.5
20°	1239.9	1301.5	1325.9	1329.7	1336.1	1336.1	1336.1	1342.5	1355.4	1360.5	1360.5
22.5°	1196.3	1275.9	1301.5	1304.1	1311.8	1311.8	1314.3	1323.3	1334.9	1336.1	1336.1
25°	1145.1	1247.7	1269.5	1277.1	1284.9	1288.7	1292.5	1297.7	1301.5	1300.3	1301.5
27.5°	1091.3	1211.7	1239.9	1245.1	1255.3	1259.2	1264.3	1265.6	1266.9	1270.7	1268.2
30°	1031.0	1161.7	1204.1	1209.2	1225.9	1228.5	1223.3	1225.9	1232.3	1234.9	1237.4
32.5°	963.0	1087.4	1166.9	1178.5	1193.9	1186.1	1184.9	1188.7	1198.9	1198.9	1201.5
35°	870.6	1029.7	1132.3	1142.5	1154.1	1145.1	1150.3	1151.5	1157.9	1161.7	1160.5
37.5°	769.4	979.7	1096.3	1104.1	1113.1	1101.5	1109.2	1113.1	1118.1	1115.6	1115.6
40°	679.6	901.4	1054.1	1059.2	1066.9	1057.9	1065.6	1068.1	1070.7	1068.1	1066.9
42.5°	612.9	815.6	1009.2	1015.6	1010.4	1016.9	1019.4	1024.5	1020.7	1015.6	1015.6
45°	561.6	792.4	960.4	968.1	960.4	970.7	974.5	974.5	963.0	960.4	959.2
47.5°	545.0	746.3	911.7	911.7	907.8	920.7	927.1	918.1	906.6	902.8	902.8
50°	543.7	695.0	845.0	839.9	857.8	873.2	866.8	857.8	848.8	834.8	834.8
52.5°	493.7	632.2	759.2	778.4	806.6	815.6	805.2	796.3	781.0	774.5	769.4
55°	457.7	566.8	680.9	719.4	748.8	760.4	741.2	732.2	709.1	705.2	702.7
57.5°	450.1	471.9	609.1	657.8	693.7	692.4	680.9	664.2	645.0	641.2	639.9
60°	412.9	341.1	532.1	589.9	627.0	623.2	612.9	597.5	579.6	577.0	574.5
62.5°	374.5	247.5	444.9	510.3	562.9	561.6	552.7	529.6	516.7	510.3	505.2
65°	318.0	207.7	316.7	424.5	500.1	502.7	483.4	466.7	452.7	444.9	443.7
67.5°	242.3	169.3	214.1	353.9	439.9	437.3	412.9	405.2	387.3	383.5	375.7
70°	179.5	112.8	148.8	287.3	380.9	374.5	355.2	346.3	329.5	320.5	315.5
72.5°	148.8	91.0	109.0	223.1	320.5	312.9	296.2	285.9	271.9	264.1	259.0
75°	120.6	96.2	83.4	165.4	260.3	255.2	239.8	229.5	218.0	207.7	209.0
77.5°	88.5	89.8	66.6	121.8	206.5	198.8	189.8	177.0	171.8	161.6	161.6
80°	66.6	70.6	50.0	83.4	148.8	148.8	141.0	132.1	123.1	118.0	118.0
82.5°	44.8	44.8	37.2	52.6	101.3	97.4	92.3	89.8	84.6	82.0	82.0
85°	20.6	25.6	23.0	32.0	55.2	57.7	57.7	55.2	53.8	51.3	52.6
87.5°	6.4	11.6	14.1	18.0	28.2	29.5	30.8	30.8	30.8	32.0	32.0
90°	5.9	10.7	15.5	16.6	26.1	38.7	45.0	40.1	30.0	22.6	22.6
92.5°	23.7	64.1	104.4	114.4	160.9	222.7	253.7	222.4	159.7	112.6	108.1
95°	56.9	130.7	204.4	222.8	395.7	626.2	741.5	661.6	502.0	382.3	368.7
97.5°	98.4	163.5	228.6	244.8	533.1	917.4	1109.5	1059.1	958.2	882.6	856.8
100°	130.4	189.4	248.5	263.2	583.1	1009.5	1222.7	1226.5	1233.8	1239.4	1208.6
102.5°	157.6	212.7	267.8	281.5	605.9	1038.5	1254.8	1319.0	1447.6	1544.0	1517.6
105°	203.9	250.6	297.1	308.8	622.9	1041.8	1251.2	1395.3	1683.4	1899.6	1885.4
107.5°	251.3	294.8	338.2	349.1	626.1	995.4	1180.1	1381.0	1783.0	2084.6	2088.0
110°	283.4	322.6	361.8	371.6	621.3	954.3	1120.8	1345.5	1794.9	2132.0	2146.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	314.7	352.1	389.5	398.8	621.5	918.4	1066.9	1296.9	1756.8	2101.8	2124.4
115°	362.1	396.6	431.2	439.8	627.2	877.2	1002.3	1223.8	1666.9	1999.2	2030.6
117.5°	409.0	440.3	471.7	479.5	639.0	851.5	957.8	1157.7	1557.6	1857.5	1892.3
120°	436.2	465.7	495.2	502.6	648.4	842.8	940.0	1122.7	1488.1	1762.1	1795.9
122.5°	462.9	492.7	522.5	529.9	662.0	838.2	926.4	1090.9	1419.9	1666.7	1700.1
125°	503.8	531.0	558.0	564.8	680.4	834.5	911.5	1051.3	1330.8	1540.4	1571.2
127.5°	537.0	564.4	591.8	598.6	698.8	832.4	899.1	1019.1	1259.1	1439.1	1465.0
130°	554.8	584.2	613.8	621.1	712.2	833.7	894.4	1001.2	1214.9	1375.1	1399.1
132.5°	573.1	602.7	632.2	639.6	723.1	834.5	890.2	985.8	1177.1	1320.5	1342.0
135°	600.4	627.2	654.2	660.9	735.0	833.7	883.2	963.3	1123.4	1243.5	1262.0
137.5°	628.3	654.9	681.4	688.1	752.8	838.9	881.9	949.6	1085.1	1186.6	1201.7
140°	651.4	675.9	700.4	706.5	763.6	839.8	877.8	936.3	1053.2	1141.0	1155.1
142.5°	669.2	691.9	714.5	720.2	772.7	842.8	877.8	929.1	1031.9	1109.0	1121.1
145°	696.4	716.2	735.9	740.9	784.6	842.8	871.9	913.9	998.0	1061.0	1070.1
147.5°	723.7	742.9	762.2	767.0	802.0	848.5	871.9	904.9	971.0	1020.6	1028.3
150°	741.5	758.9	776.3	780.6	811.0	851.6	871.9	899.8	955.6	997.5	1003.7
152.5°	759.8	773.0	786.2	789.5	816.9	853.5	871.9	895.7	943.4	979.1	983.8
155°	787.1	796.8	806.6	809.1	830.0	857.9	871.9	890.8	928.8	957.2	960.3
157.5°	807.2	816.7	826.2	828.6	843.0	862.2	871.9	886.6	916.1	938.2	940.4
160°	820.9	828.3	835.6	837.5	848.9	864.2	871.9	884.5	909.8	928.8	930.0
162.5°	834.5	840.0	845.6	847.0	855.3	866.3	871.9	882.6	903.9	919.9	921.0
165°	849.3	854.3	859.3	860.6	864.3	869.4	871.9	879.5	894.8	906.3	907.5
167.5°	863.0	865.4	867.8	868.3	871.5	875.7	877.8	882.8	892.8	900.4	900.8
170°	871.9	874.3	876.7	877.2	877.4	877.7	877.8	882.8	892.8	900.4	900.4
172.5°	876.7	877.1	877.7	877.8	877.8	877.8	877.8	881.7	889.7	895.6	895.1
175°	883.2	883.2	883.2	883.2	881.3	878.9	877.8	880.3	885.4	889.1	889.1
177.5°	883.2	883.2	883.2	883.2	881.7	879.9	878.9	881.0	884.9	887.8	887.4
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1390.0	1386.2	1390.0	1387.4	1388.7	1384.9	1373.3	1369.5	1373.3	1377.2	1377.2
5°	1406.7	1404.1	1406.7	1406.7	1405.4	1402.8	1390.0	1387.4	1390.0	1391.3	1388.7
7.5°	1411.8	1408.0	1411.8	1409.2	1409.2	1406.7	1393.8	1391.3	1392.6	1396.4	1392.6
10°	1411.8	1408.0	1411.8	1410.5	1409.2	1406.7	1393.8	1388.7	1388.7	1392.6	1388.7
12.5°	1405.4	1402.8	1405.4	1402.8	1402.8	1400.3	1387.4	1382.3	1383.6	1384.9	1379.7
15°	1395.1	1391.3	1395.1	1392.6	1393.8	1390.0	1375.9	1370.8	1370.8	1373.3	1364.3
17.5°	1379.7	1374.6	1379.7	1378.5	1377.2	1374.6	1361.8	1356.7	1355.4	1356.7	1350.3
20°	1361.8	1357.9	1361.8	1360.5	1360.5	1355.4	1342.5	1336.1	1336.1	1336.1	1329.7
22.5°	1333.6	1329.7	1333.6	1336.1	1336.1	1334.9	1323.3	1314.3	1311.8	1311.8	1304.1
25°	1301.5	1297.7	1301.5	1301.5	1300.3	1301.5	1297.7	1292.5	1288.7	1284.9	1277.1
27.5°	1270.7	1268.2	1270.7	1268.2	1270.7	1266.9	1265.6	1264.3	1259.2	1255.3	1245.1
30°	1239.9	1237.4	1239.9	1237.4	1234.9	1232.3	1225.9	1223.3	1228.5	1225.9	1209.2
32.5°	1201.5	1198.9	1201.5	1201.5	1198.9	1198.9	1188.7	1184.9	1186.1	1193.9	1178.5
35°	1161.7	1157.9	1161.7	1160.5	1161.7	1157.9	1151.5	1150.3	1145.1	1154.1	1142.5
37.5°	1115.6	1111.7	1115.6	1115.6	1115.6	1118.1	1113.1	1109.2	1101.5	1113.1	1104.1
40°	1068.1	1063.0	1068.1	1066.9	1068.1	1070.7	1068.1	1065.6	1057.9	1066.9	1059.2
42.5°	1014.3	1013.0	1014.3	1015.6	1015.6	1020.7	1024.5	1019.4	1016.9	1010.4	1015.6
45°	956.6	954.0	956.6	959.2	960.4	963.0	974.5	974.5	970.7	960.4	968.1
47.5°	895.0	888.6	895.0	902.8	902.8	906.6	918.1	927.1	920.7	907.8	911.7
50°	829.6	831.0	829.6	834.8	834.8	848.8	857.8	866.8	873.2	857.8	839.9
52.5°	765.6	764.2	765.6	769.4	774.5	781.0	796.3	805.2	815.6	806.6	778.4
55°	701.4	704.0	701.4	702.7	705.2	709.1	732.2	741.2	760.4	748.8	719.4
57.5°	637.3	633.4	637.3	639.9	641.2	645.0	664.2	680.9	692.4	693.7	657.8
60°	562.9	557.8	562.9	574.5	577.0	579.6	597.5	612.9	623.2	627.0	589.9
62.5°	497.5	488.5	497.5	505.2	510.3	516.7	529.6	552.7	561.6	562.9	510.3
65°	428.3	424.5	428.3	443.7	444.9	452.7	466.7	483.4	502.7	500.1	424.5
67.5°	365.5	365.5	365.5	375.7	383.5	387.3	405.2	412.9	437.3	439.9	353.9
70°	307.7	306.5	307.7	315.5	320.5	329.5	346.3	355.2	374.5	380.9	287.3
72.5°	252.6	251.3	252.6	259.0	264.1	271.9	285.9	296.2	312.9	320.5	223.1
75°	203.9	201.3	203.9	209.0	207.7	218.0	229.5	239.8	255.2	260.3	165.4
77.5°	156.4	156.4	156.4	161.6	161.6	171.8	177.0	189.8	198.8	206.5	121.8
80°	116.7	115.4	116.7	118.0	118.0	123.1	132.1	141.0	148.8	148.8	83.4
82.5°	82.0	79.5	82.0	82.0	82.0	84.6	89.8	92.3	97.4	101.3	52.6
85°	51.3	51.3	51.3	52.6	51.3	53.8	55.2	57.7	57.7	55.2	32.0
87.5°	33.4	32.0	33.4	32.0	32.0	30.8	30.8	30.8	29.5	28.2	18.0
90°	22.6	22.6	22.6	22.6	22.6	30.0	40.1	45.0	38.7	26.1	16.6
92.5°	90.2	72.3	90.2	108.1	112.6	159.7	222.4	253.7	222.7	160.9	114.4
95°	314.5	260.2	314.5	368.7	382.3	502.0	661.6	741.5	626.2	395.7	222.8
97.5°	753.4	650.2	753.4	856.8	882.6	958.2	1059.1	1109.5	917.4	533.1	244.8
100°	1085.6	962.6	1085.6	1208.6	1239.4	1233.8	1226.5	1222.7	1009.5	583.1	263.2
102.5°	1412.3	1306.9	1412.3	1517.6	1544.0	1447.6	1319.0	1254.8	1038.5	605.9	281.5
105°	1828.7	1772.1	1828.7	1885.4	1899.6	1683.4	1395.3	1251.2	1041.8	622.9	308.8
107.5°	2101.7	2115.3	2101.7	2088.0	2084.6	1783.0	1381.0	1180.1	995.4	626.1	349.1
110°	2205.8	2264.8	2205.8	2146.7	2132.0	1794.9	1345.5	1120.8	954.3	621.3	371.6



TEST NUMBER: P934612

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2215.0	2305.6	2215.0	2124.4	2101.8	1756.8	1296.9	1066.9	918.4	621.5	398.8
115°	2156.3	2281.9	2156.3	2030.6	1999.2	1666.9	1223.8	1002.3	877.2	627.2	439.8
117.5°	2031.7	2171.1	2031.7	1892.3	1857.5	1557.6	1157.7	957.8	851.5	639.0	479.5
120°	1931.4	2066.8	1931.4	1795.9	1762.1	1488.1	1122.7	940.0	842.8	648.4	502.6
122.5°	1833.6	1967.2	1833.6	1700.1	1666.7	1419.9	1090.9	926.4	838.2	662.0	529.9
125°	1694.2	1817.3	1694.2	1571.2	1540.4	1330.8	1051.3	911.5	834.5	680.4	564.8
127.5°	1568.8	1672.6	1568.8	1465.0	1439.1	1259.1	1019.1	899.1	832.4	698.8	598.6
130°	1494.9	1590.8	1494.9	1399.1	1375.1	1214.9	1001.2	894.4	833.7	712.2	621.1
132.5°	1427.9	1513.7	1427.9	1342.0	1320.5	1177.1	985.8	890.2	834.5	723.1	639.6
135°	1336.0	1410.0	1336.0	1262.0	1243.5	1123.4	963.3	883.2	833.7	735.0	660.9
137.5°	1262.3	1322.9	1262.3	1201.7	1186.6	1085.1	949.6	881.9	838.9	752.8	688.1
140°	1211.8	1268.4	1211.8	1155.1	1141.0	1053.2	936.3	877.8	839.8	763.6	706.5
142.5°	1169.9	1218.6	1169.9	1121.1	1109.0	1031.9	929.1	877.8	842.8	772.7	720.2
145°	1107.0	1143.9	1107.0	1070.1	1061.0	998.0	913.9	871.9	842.8	784.6	740.9
147.5°	1058.8	1089.4	1058.8	1028.3	1020.6	971.0	904.9	871.9	848.5	802.0	767.0
150°	1028.5	1053.2	1028.5	1003.7	997.5	955.6	899.8	871.9	851.6	811.0	780.6
152.5°	1002.5	1021.2	1002.5	983.8	979.1	943.4	895.7	871.9	853.5	816.9	789.5
155°	972.7	985.1	972.7	960.3	957.2	928.8	890.8	871.9	857.9	830.0	809.1
157.5°	949.1	957.8	949.1	940.4	938.2	916.1	886.6	871.9	862.2	843.0	828.6
160°	935.1	940.0	935.1	930.0	928.8	909.8	884.5	871.9	864.2	848.9	837.5
162.5°	925.8	930.6	925.8	921.0	919.9	903.9	882.6	871.9	866.3	855.3	847.0
165°	912.5	917.5	912.5	907.5	906.3	894.8	879.5	871.9	869.4	864.3	860.6
167.5°	902.9	905.0	902.9	900.8	900.4	892.8	882.8	877.8	875.7	871.5	868.3
170°	900.4	900.4	900.4	900.4	900.4	892.8	882.8	877.8	877.7	877.4	877.2
172.5°	893.3	891.5	893.3	895.1	895.6	889.7	881.7	877.8	877.8	877.8	877.8
175°	889.1	889.1	889.1	889.1	889.1	885.4	880.3	877.8	878.9	881.3	883.2
177.5°	885.3	883.2	885.3	887.4	887.8	884.9	881.0	878.9	879.9	881.7	883.2
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



TEST NUMBER: P934612

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1374.6	1366.9	1366.9	1354.1	1349.0	1345.1	1338.7	1319.5	1314.3	1309.2	1316.9
5°	1386.2	1372.1	1361.8	1338.7	1319.5	1311.8	1287.4	1241.3	1210.5	1187.4	1174.5
7.5°	1388.7	1370.8	1351.5	1315.6	1269.5	1248.9	1174.5	1089.9	1066.9	1046.3	1033.5
10°	1386.2	1365.6	1338.7	1284.9	1175.9	1139.9	1065.6	1010.4	996.3	992.5	996.3
12.5°	1377.2	1357.9	1320.7	1231.0	1078.4	1054.1	1010.4	978.4	975.8	982.2	1016.9
15°	1361.8	1343.8	1300.3	1159.1	1024.5	1006.6	975.8	964.3	978.4	1023.3	1127.1
17.5°	1346.4	1325.9	1272.1	1088.7	983.5	970.7	948.9	972.0	1051.5	1111.7	1146.3
20°	1325.9	1301.5	1239.9	1037.4	954.0	942.5	932.2	1036.1	1096.3	1118.1	1137.4
22.5°	1301.5	1275.9	1196.3	1001.5	923.2	914.3	920.7	1072.0	1096.3	1111.7	1128.4
25°	1269.5	1247.7	1145.1	973.3	898.9	888.6	913.0	1068.1	1082.3	1086.1	1119.5
27.5°	1239.9	1211.7	1091.3	947.6	869.4	865.6	919.4	1051.5	1061.7	1065.6	1101.5
30°	1204.1	1161.7	1031.0	920.7	838.6	837.4	920.7	1031.0	1028.4	1038.7	1074.5
32.5°	1166.9	1087.4	963.0	887.4	809.2	807.8	911.7	1000.2	997.6	1011.7	1038.7
35°	1132.3	1029.7	870.6	848.8	772.0	773.2	889.9	964.3	965.6	978.4	995.1
37.5°	1096.3	979.7	769.4	806.6	736.0	736.0	860.4	931.0	928.4	932.2	955.3
40°	1054.1	901.4	679.6	751.4	702.7	698.8	824.6	895.0	886.0	884.8	916.8
42.5°	1009.2	815.6	612.9	678.4	664.2	659.1	781.0	851.4	834.8	838.6	879.6
45°	960.4	792.4	561.6	573.2	624.5	620.6	733.4	801.4	789.8	800.2	842.4
47.5°	911.7	746.3	545.0	475.7	582.2	580.9	680.9	752.7	746.3	756.6	801.4
50°	845.0	695.0	543.7	407.7	534.7	539.9	618.1	705.2	705.2	714.2	761.6
52.5°	759.2	632.2	493.7	369.3	479.5	494.9	562.9	664.2	666.8	675.8	718.1
55°	680.9	566.8	457.7	339.8	414.1	447.5	509.1	621.9	627.0	636.0	674.5
57.5°	609.1	471.9	450.1	305.2	353.9	385.9	461.7	580.9	583.4	591.1	628.3
60°	532.1	341.1	412.9	268.0	301.3	325.7	418.1	532.1	541.1	546.3	578.3
62.5°	444.9	247.5	374.5	242.3	275.7	280.8	382.1	486.0	497.5	501.4	520.6
65°	316.7	207.7	318.0	220.5	248.8	250.1	343.7	438.5	448.8	455.2	469.3
67.5°	214.1	169.3	242.3	200.0	228.3	229.5	306.5	383.5	397.5	402.7	411.7
70°	148.8	112.8	179.5	178.2	205.2	207.7	266.7	333.4	346.3	350.1	355.2
72.5°	109.0	91.0	148.8	160.3	180.8	183.4	225.7	277.0	289.8	293.7	296.2
75°	83.4	96.2	120.6	139.8	153.9	155.2	184.6	225.7	234.7	237.2	238.5
77.5°	66.6	89.8	88.5	112.8	125.6	123.1	144.9	174.4	182.1	182.1	182.1
80°	50.0	70.6	66.6	80.8	92.3	89.8	103.8	124.4	127.0	129.5	128.2
82.5°	37.2	44.8	44.8	51.3	61.6	59.0	69.2	80.8	80.8	80.8	83.4
85°	23.0	25.6	20.6	27.0	34.6	33.4	38.4	43.6	44.8	44.8	42.4
87.5°	14.1	11.6	6.4	10.2	15.4	15.4	18.0	19.2	18.0	18.0	18.0
90°	15.5	10.7	5.9	10.7	15.5	16.6	26.1	38.7	45.0	40.1	30.0
92.5°	104.4	64.1	23.7	64.1	104.4	114.4	160.9	222.7	253.7	222.4	159.7
95°	204.4	130.7	56.9	130.7	204.4	222.8	395.7	626.2	741.5	661.6	502.0
97.5°	228.6	163.5	98.4	163.5	228.6	244.8	533.1	917.4	1109.5	1059.1	958.2
100°	248.5	189.4	130.4	189.4	248.5	263.2	583.1	1009.5	1222.7	1226.5	1233.8
102.5°	267.8	212.7	157.6	212.7	267.8	281.5	605.9	1038.5	1254.8	1319.0	1447.6
105°	297.1	250.6	203.9	250.6	297.1	308.8	622.9	1041.8	1251.2	1395.3	1683.4
107.5°	338.2	294.8	251.3	294.8	338.2	349.1	626.1	995.4	1180.1	1381.0	1783.0
110°	361.8	322.6	283.4	322.6	361.8	371.6	621.3	954.3	1120.8	1345.5	1794.9



TEST NUMBER: P934612

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	389.5	352.1	314.7	352.1	389.5	398.8	621.5	918.4	1066.9	1296.9	1756.8
115°	431.2	396.6	362.1	396.6	431.2	439.8	627.2	877.2	1002.3	1223.8	1666.9
117.5°	471.7	440.3	409.0	440.3	471.7	479.5	639.0	851.5	957.8	1157.7	1557.6
120°	495.2	465.7	436.2	465.7	495.2	502.6	648.4	842.8	940.0	1122.7	1488.1
122.5°	522.5	492.7	462.9	492.7	522.5	529.9	662.0	838.2	926.4	1090.9	1419.9
125°	558.0	531.0	503.8	531.0	558.0	564.8	680.4	834.5	911.5	1051.3	1330.8
127.5°	591.8	564.4	537.0	564.4	591.8	598.6	698.8	832.4	899.1	1019.1	1259.1
130°	613.8	584.2	554.8	584.2	613.8	621.1	712.2	833.7	894.4	1001.2	1214.9
132.5°	632.2	602.7	573.1	602.7	632.2	639.6	723.1	834.5	890.2	985.8	1177.1
135°	654.2	627.2	600.4	627.2	654.2	660.9	735.0	833.7	883.2	963.3	1123.4
137.5°	681.4	654.9	628.3	654.9	681.4	688.1	752.8	838.9	881.9	949.6	1085.1
140°	700.4	675.9	651.4	675.9	700.4	706.5	763.6	839.8	877.8	936.3	1053.2
142.5°	714.5	691.9	669.2	691.9	714.5	720.2	772.7	842.8	877.8	929.1	1031.9
145°	735.9	716.2	696.4	716.2	735.9	740.9	784.6	842.8	871.9	913.9	998.0
147.5°	762.2	742.9	723.7	742.9	762.2	767.0	802.0	848.5	871.9	904.9	971.0
150°	776.3	758.9	741.5	758.9	776.3	780.6	811.0	851.6	871.9	899.8	955.6
152.5°	786.2	773.0	759.8	773.0	786.2	789.5	816.9	853.5	871.9	895.7	943.4
155°	806.6	796.8	787.1	796.8	806.6	809.1	830.0	857.9	871.9	890.8	928.8
157.5°	826.2	816.7	807.2	816.7	826.2	828.6	843.0	862.2	871.9	886.6	916.1
160°	835.6	828.3	820.9	828.3	835.6	837.5	848.9	864.2	871.9	884.5	909.8
162.5°	845.6	840.0	834.5	840.0	845.6	847.0	855.3	866.3	871.9	882.6	903.9
165°	859.3	854.3	849.3	854.3	859.3	860.6	864.3	869.4	871.9	879.5	894.8
167.5°	867.8	865.4	863.0	865.4	867.8	868.3	871.5	875.7	877.8	882.8	892.8
170°	876.7	874.3	871.9	874.3	876.7	877.2	877.4	877.7	877.8	882.8	892.8
172.5°	877.7	877.1	876.7	877.1	877.7	877.8	877.8	877.8	877.8	881.7	889.7
175°	883.2	883.2	883.2	883.2	883.2	883.2	881.3	878.9	877.8	880.3	885.4
177.5°	883.2	883.2	883.2	883.2	883.2	883.2	881.7	879.9	878.9	881.0	884.9
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



TEST NUMBER: P934612

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1307.9	1304.1	1309.2	1295.1	1309.2	1304.1	1307.9	1316.9	1309.2	1314.3	1319.5
5°	1147.7	1141.3	1120.7	1104.1	1120.7	1141.3	1147.7	1174.5	1187.4	1210.5	1241.3
7.5°	1025.8	1020.7	1015.6	1005.3	1015.6	1020.7	1025.8	1033.5	1046.3	1066.9	1089.9
10°	998.9	1000.2	1007.9	1006.6	1007.9	1000.2	998.9	996.3	992.5	996.3	1010.4
12.5°	1068.1	1079.7	1122.0	1119.5	1122.0	1079.7	1068.1	1016.9	982.2	975.8	978.4
15°	1147.7	1151.5	1160.5	1161.7	1160.5	1151.5	1147.7	1127.1	1023.3	978.4	964.3
17.5°	1155.3	1156.7	1163.1	1163.1	1163.1	1156.7	1155.3	1146.3	1111.7	1051.5	972.0
20°	1148.9	1151.5	1164.3	1166.9	1164.3	1151.5	1148.9	1137.4	1118.1	1096.3	1036.1
22.5°	1146.3	1151.5	1161.7	1160.5	1161.7	1151.5	1146.3	1128.4	1111.7	1096.3	1072.0
25°	1133.5	1133.5	1134.9	1136.1	1134.9	1133.5	1133.5	1119.5	1086.1	1082.3	1068.1
27.5°	1106.6	1109.2	1116.9	1115.6	1116.9	1109.2	1106.6	1101.5	1065.6	1061.7	1051.5
30°	1082.3	1079.7	1073.3	1068.1	1073.3	1079.7	1082.3	1074.5	1038.7	1028.4	1031.0
32.5°	1041.2	1034.8	1028.4	1024.5	1028.4	1034.8	1041.2	1038.7	1011.7	997.6	1000.2
35°	992.5	993.8	992.5	988.6	992.5	993.8	992.5	995.1	978.4	965.6	964.3
37.5°	957.9	960.4	959.2	954.0	959.2	960.4	957.9	955.3	932.2	928.4	931.0
40°	922.0	923.2	922.0	918.1	922.0	923.2	922.0	916.8	884.8	886.0	895.0
42.5°	887.4	886.0	882.2	879.6	882.2	886.0	887.4	879.6	838.6	834.8	851.4
45°	847.6	848.8	841.2	837.4	841.2	848.8	847.6	842.4	800.2	789.8	801.4
47.5°	807.8	807.8	801.4	797.6	801.4	807.8	807.8	801.4	756.6	746.3	752.7
50°	765.6	764.2	755.2	754.0	755.2	764.2	765.6	761.6	714.2	705.2	705.2
52.5°	716.8	716.8	718.1	720.6	718.1	716.8	716.8	718.1	675.8	666.8	664.2
55°	674.5	675.8	684.8	687.3	684.8	675.8	674.5	674.5	636.0	627.0	621.9
57.5°	630.9	630.9	637.3	637.3	637.3	630.9	630.9	628.3	591.1	583.4	580.9
60°	580.9	583.4	588.6	587.3	588.6	583.4	580.9	578.3	546.3	541.1	532.1
62.5°	528.3	530.9	532.1	529.6	532.1	530.9	528.3	520.6	501.4	497.5	486.0
65°	473.1	475.7	477.0	474.5	477.0	475.7	473.1	469.3	455.2	448.8	438.5
67.5°	416.7	415.5	414.1	419.3	414.1	415.5	416.7	411.7	402.7	397.5	383.5
70°	359.1	359.1	357.7	360.3	357.7	359.1	359.1	355.2	350.1	346.3	333.4
72.5°	297.5	296.2	301.3	297.5	301.3	296.2	297.5	296.2	293.7	289.8	277.0
75°	237.2	239.8	237.2	241.1	237.2	239.8	237.2	238.5	237.2	234.7	225.7
77.5°	180.8	183.4	180.8	180.8	180.8	183.4	180.8	182.1	182.1	182.1	174.4
80°	128.2	127.0	127.0	125.6	127.0	127.0	128.2	128.2	129.5	127.0	124.4
82.5°	82.0	80.8	80.8	83.4	80.8	80.8	82.0	83.4	80.8	80.8	80.8
85°	44.8	46.2	43.6	43.6	43.6	46.2	44.8	42.4	44.8	44.8	43.6
87.5°	16.6	15.4	15.4	15.4	15.4	15.4	16.6	18.0	18.0	18.0	19.2
90°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	30.0	40.1	45.0	38.7
92.5°	112.6	108.1	90.2	72.3	90.2	108.1	112.6	159.7	222.4	253.7	222.7
95°	382.3	368.7	314.5	260.2	314.5	368.7	382.3	502.0	661.6	741.5	626.2
97.5°	882.6	856.8	753.4	650.2	753.4	856.8	882.6	958.2	1059.1	1109.5	917.4
100°	1239.4	1208.6	1085.6	962.6	1085.6	1208.6	1239.4	1233.8	1226.5	1222.7	1009.5
102.5°	1544.0	1517.6	1412.3	1306.9	1412.3	1517.6	1544.0	1447.6	1319.0	1254.8	1038.5
105°	1899.6	1885.4	1828.7	1772.1	1828.7	1885.4	1899.6	1683.4	1395.3	1251.2	1041.8
107.5°	2084.6	2088.0	2101.7	2115.3	2101.7	2088.0	2084.6	1783.0	1381.0	1180.1	995.4
110°	2132.0	2146.7	2205.8	2264.8	2205.8	2146.7	2132.0	1794.9	1345.5	1120.8	954.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2101.8	2124.4	2215.0	2305.6	2215.0	2124.4	2101.8	1756.8	1296.9	1066.9	918.4
115°	1999.2	2030.6	2156.3	2281.9	2156.3	2030.6	1999.2	1666.9	1223.8	1002.3	877.2
117.5°	1857.5	1892.3	2031.7	2171.1	2031.7	1892.3	1857.5	1557.6	1157.7	957.8	851.5
120°	1762.1	1795.9	1931.4	2066.8	1931.4	1795.9	1762.1	1488.1	1122.7	940.0	842.8
122.5°	1666.7	1700.1	1833.6	1967.2	1833.6	1700.1	1666.7	1419.9	1090.9	926.4	838.2
125°	1540.4	1571.2	1694.2	1817.3	1694.2	1571.2	1540.4	1330.8	1051.3	911.5	834.5
127.5°	1439.1	1465.0	1568.8	1672.6	1568.8	1465.0	1439.1	1259.1	1019.1	899.1	832.4
130°	1375.1	1399.1	1494.9	1590.8	1494.9	1399.1	1375.1	1214.9	1001.2	894.4	833.7
132.5°	1320.5	1342.0	1427.9	1513.7	1427.9	1342.0	1320.5	1177.1	985.8	890.2	834.5
135°	1243.5	1262.0	1336.0	1410.0	1336.0	1262.0	1243.5	1123.4	963.3	883.2	833.7
137.5°	1186.6	1201.7	1262.3	1322.9	1262.3	1201.7	1186.6	1085.1	949.6	881.9	838.9
140°	1141.0	1155.1	1211.8	1268.4	1211.8	1155.1	1141.0	1053.2	936.3	877.8	839.8
142.5°	1109.0	1121.1	1169.9	1218.6	1169.9	1121.1	1109.0	1031.9	929.1	877.8	842.8
145°	1061.0	1070.1	1107.0	1143.9	1107.0	1070.1	1061.0	998.0	913.9	871.9	842.8
147.5°	1020.6	1028.3	1058.8	1089.4	1058.8	1028.3	1020.6	971.0	904.9	871.9	848.5
150°	997.5	1003.7	1028.5	1053.2	1028.5	1003.7	997.5	955.6	899.8	871.9	851.6
152.5°	979.1	983.8	1002.5	1021.2	1002.5	983.8	979.1	943.4	895.7	871.9	853.5
155°	957.2	960.3	972.7	985.1	972.7	960.3	957.2	928.8	890.8	871.9	857.9
157.5°	938.2	940.4	949.1	957.8	949.1	940.4	938.2	916.1	886.6	871.9	862.2
160°	928.8	930.0	935.1	940.0	935.1	930.0	928.8	909.8	884.5	871.9	864.2
162.5°	919.9	921.0	925.8	930.6	925.8	921.0	919.9	903.9	882.6	871.9	866.3
165°	906.3	907.5	912.5	917.5	912.5	907.5	906.3	894.8	879.5	871.9	869.4
167.5°	900.4	900.8	902.9	905.0	902.9	900.8	900.4	892.8	882.8	877.8	875.7
170°	900.4	900.4	900.4	900.4	900.4	900.4	900.4	892.8	882.8	877.8	877.7
172.5°	895.6	895.1	893.3	891.5	893.3	895.1	895.6	889.7	881.7	877.8	877.8
175°	889.1	889.1	889.1	889.1	889.1	889.1	889.1	885.4	880.3	877.8	878.9
177.5°	887.8	887.4	885.3	883.2	885.3	887.4	887.8	884.9	881.0	878.9	879.9
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1338.7	1345.1	1349.0	1354.1	1366.9
5°	1287.4	1311.8	1319.5	1338.7	1361.8
7.5°	1174.5	1248.9	1269.5	1315.6	1351.5
10°	1065.6	1139.9	1175.9	1284.9	1338.7
12.5°	1010.4	1054.1	1078.4	1231.0	1320.7
15°	975.8	1006.6	1024.5	1159.1	1300.3
17.5°	948.9	970.7	983.5	1088.7	1272.1
20°	932.2	942.5	954.0	1037.4	1239.9
22.5°	920.7	914.3	923.2	1001.5	1196.3
25°	913.0	888.6	898.9	973.3	1145.1
27.5°	919.4	865.6	869.4	947.6	1091.3
30°	920.7	837.4	838.6	920.7	1031.0
32.5°	911.7	807.8	809.2	887.4	963.0
35°	889.9	773.2	772.0	848.8	870.6
37.5°	860.4	736.0	736.0	806.6	769.4
40°	824.6	698.8	702.7	751.4	679.6
42.5°	781.0	659.1	664.2	678.4	612.9
45°	733.4	620.6	624.5	573.2	561.6
47.5°	680.9	580.9	582.2	475.7	545.0
50°	618.1	539.9	534.7	407.7	543.7
52.5°	562.9	494.9	479.5	369.3	493.7
55°	509.1	447.5	414.1	339.8	457.7
57.5°	461.7	385.9	353.9	305.2	450.1
60°	418.1	325.7	301.3	268.0	412.9
62.5°	382.1	280.8	275.7	242.3	374.5
65°	343.7	250.1	248.8	220.5	318.0
67.5°	306.5	229.5	228.3	200.0	242.3
70°	266.7	207.7	205.2	178.2	179.5
72.5°	225.7	183.4	180.8	160.3	148.8
75°	184.6	155.2	153.9	139.8	120.6
77.5°	144.9	123.1	125.6	112.8	88.5
80°	103.8	89.8	92.3	80.8	66.6
82.5°	69.2	59.0	61.6	51.3	44.8
85°	38.4	33.4	34.6	27.0	20.6
87.5°	18.0	15.4	15.4	10.2	6.4
90°	26.1	16.6	15.5	10.7	5.9
92.5°	160.9	114.4	104.4	64.1	23.7
95°	395.7	222.8	204.4	130.7	56.9
97.5°	533.1	244.8	228.6	163.5	98.4
100°	583.1	263.2	248.5	189.4	130.4
102.5°	605.9	281.5	267.8	212.7	157.6
105°	622.9	308.8	297.1	250.6	203.9
107.5°	626.1	349.1	338.2	294.8	251.3
110°	621.3	371.6	361.8	322.6	283.4



TEST NUMBER: P934612

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	621.5	398.8	389.5	352.1	314.7
115°	627.2	439.8	431.2	396.6	362.1
117.5°	639.0	479.5	471.7	440.3	409.0
120°	648.4	502.6	495.2	465.7	436.2
122.5°	662.0	529.9	522.5	492.7	462.9
125°	680.4	564.8	558.0	531.0	503.8
127.5°	698.8	598.6	591.8	564.4	537.0
130°	712.2	621.1	613.8	584.2	554.8
132.5°	723.1	639.6	632.2	602.7	573.1
135°	735.0	660.9	654.2	627.2	600.4
137.5°	752.8	688.1	681.4	654.9	628.3
140°	763.6	706.5	700.4	675.9	651.4
142.5°	772.7	720.2	714.5	691.9	669.2
145°	784.6	740.9	735.9	716.2	696.4
147.5°	802.0	767.0	762.2	742.9	723.7
150°	811.0	780.6	776.3	758.9	741.5
152.5°	816.9	789.5	786.2	773.0	759.8
155°	830.0	809.1	806.6	796.8	787.1
157.5°	843.0	828.6	826.2	816.7	807.2
160°	848.9	837.5	835.6	828.3	820.9
162.5°	855.3	847.0	845.6	840.0	834.5
165°	864.3	860.6	859.3	854.3	849.3
167.5°	871.5	868.3	867.8	865.4	863.0
170°	877.4	877.2	876.7	874.3	871.9
172.5°	877.8	877.8	877.7	877.1	876.7
175°	881.3	883.2	883.2	883.2	883.2
177.5°	881.7	883.2	883.2	883.2	883.2
180°	883.2	883.2	883.2	883.2	883.2



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.98	10.74	11.03	11.80	13.23	12.82	13.58	13.87	14.64	16.07
	3H	10.45	11.13	11.51	12.20	13.65	14.16	14.84	15.22	15.91	17.36
	4H	10.64	11.28	11.71	12.35	13.81	14.60	15.25	15.67	16.31	17.77
	6H	10.75	11.35	11.83	12.42	13.89	14.88	15.48	15.96	16.55	18.02
	8H	10.75	11.31	11.84	12.40	13.87	14.95	15.52	16.04	16.61	18.07
	12H	10.71	11.25	11.81	12.34	13.82	14.99	15.53	16.08	16.61	18.10
4H	2H	11.00	11.65	12.08	12.72	14.17	13.21	13.86	14.30	14.93	16.39
	3H	12.02	12.56	13.11	13.65	15.13	14.71	15.25	15.80	16.35	17.82
	4H	12.29	12.79	13.39	13.87	15.36	15.24	15.73	16.33	16.82	18.31
	6H	12.41	12.84	13.51	13.94	15.43	15.60	16.02	16.70	17.13	18.62
	8H	12.41	12.81	13.52	13.91	15.41	15.71	16.10	16.81	17.20	18.70
	12H	12.38	12.74	13.50	13.85	15.36	15.76	16.12	16.88	17.23	18.74
8H	4H	12.74	13.14	13.84	14.24	15.74	15.35	15.75	16.46	16.85	18.35
	6H	13.00	13.32	14.12	14.47	15.96	15.79	16.12	16.91	17.26	18.76
	8H	13.04	13.32	14.17	14.45	15.97	15.94	16.23	17.07	17.35	18.87
	12H	13.02	13.27	14.15	14.39	15.94	16.04	16.29	17.17	17.41	18.96
12H	4H	12.74	13.10	13.86	14.21	15.72	15.31	15.67	16.43	16.79	18.29
	6H	13.06	13.34	14.19	14.47	15.98	15.79	16.07	16.92	17.20	18.71
	8H	13.12	13.37	14.25	14.49	16.05	15.94	16.20	17.08	17.32	18.87