

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: P934304

Luminaire Tested: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934304
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

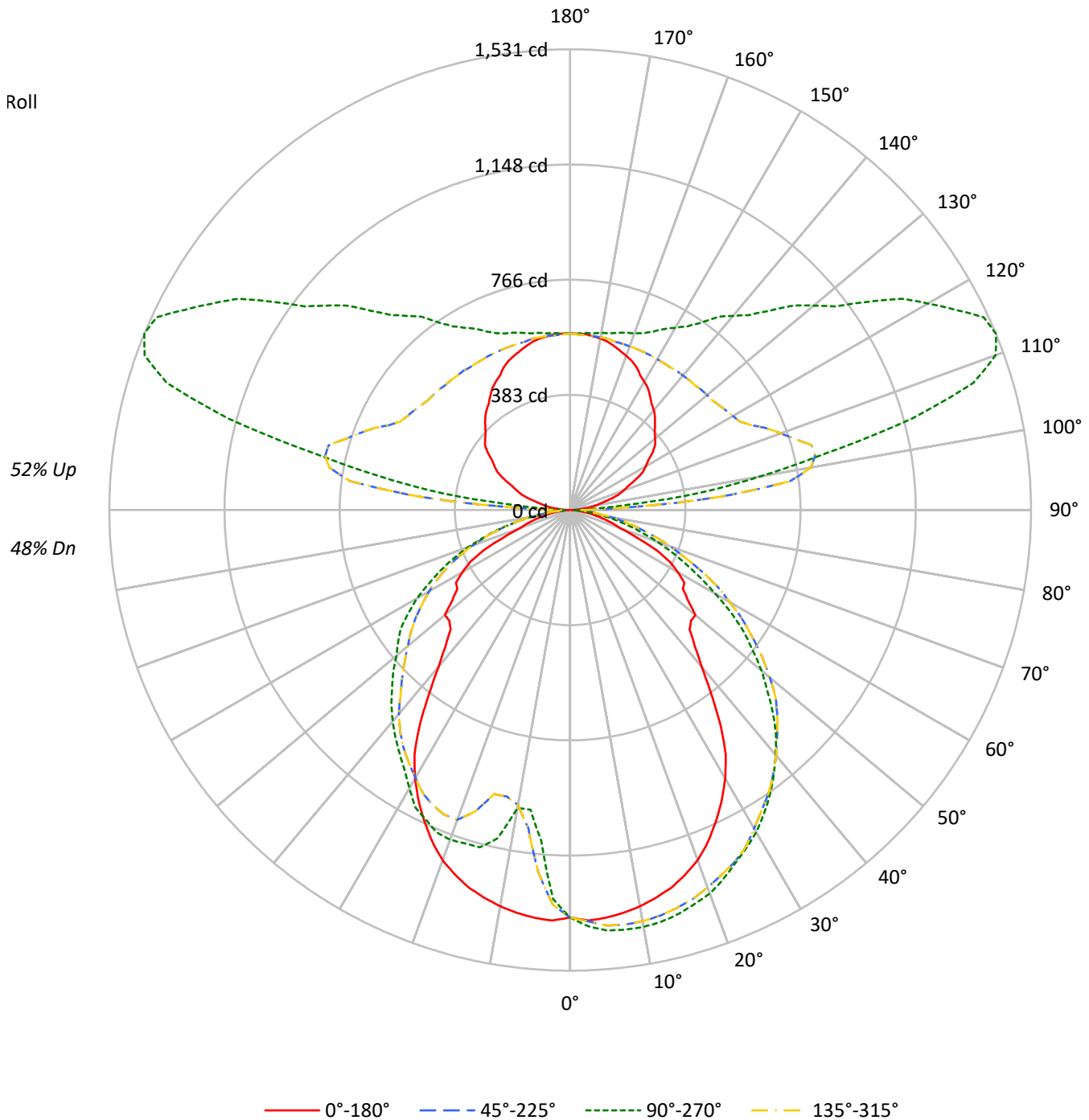
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7315.3 lumens
Efficiency: N/A
Efficacy: 128.8 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): 56.8
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





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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6282	6282	6282	6282
5°	6329	6341	6329	4986
10°	6286	6246	6286	4466
15°	6218	6111	6218	5103
20°	6088	5951	6088	5114
25°	5822	5717	5822	5005
30°	5478	5523	5478	4767
35°	4883	5277	4883	4506
40°	4069	4988	4069	4308
45°	3636	4650	3636	4081
50°	3863	4247	3863	3853
55°	3634	3812	3634	3721
60°	3747	3237	3747	3408
65°	3396	2676	3396	2992
70°	2352	2133	2352	2507
75°	2062	1576	2062	1888
80°	1662	1042	1662	1135
85°	955	553	955	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5572 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.7
10°-20°	347.0	4.7
20°-30°	536.4	7.3
30°-40°	640.4	8.8
40°-50°	644.1	8.8
50°-60°	560.5	7.7
60°-70°	397.4	5.4
70°-80°	210.2	2.9
80°-90°	54.6	0.7
90°-100°	285.9	3.9
100°-110°	751.7	10.3
110°-120°	779.4	10.7
120°-130°	625.2	8.5
130°-140°	490.6	6.7
140°-150°	376.5	5.1
150°-160°	271.2	3.7
160°-170°	165.9	2.3
170°-180°	56.1	0.8
0°-30°	1005.6	13.7
0°-40°	1646.0	22.5
0°-60°	2850.6	39.0
0°-90°	3512.8	48.0
90°-120°	1817.1	24.8
90°-150°	3309.4	45.2
90°-180°	3802.0	52.0
0°-180°	7315.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1354	1354	1354	1354	1354	
5°	1360	1403	1360	1103	1360	129
15°	1299	1390	1299	1160	1299	365
25°	1144	1296	1144	1135	1144	525
35°	870	1157	870	988	870	538
45°	561	953	561	836	561	449
55°	457	703	457	686	457	420
65°	318	424	318	474	318	304
75°	120	201	120	241	120	127
85°	20	51	20	44	20	28
90°	4	15	4	15	4	4
95°	38	173	38	173	38	42
105°	135	1177	135	1177	135	144
115°	241	1516	241	1516	241	238
125°	335	1207	335	1207	335	297
135°	399	937	399	937	399	309
145°	463	760	463	760	463	290
155°	523	654	523	654	523	240
165°	564	609	564	609	564	159
175°	587	590	587	590	587	56
180°	587	587	587	587	587	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1365.5	1365.5	1373.2	1375.8	1375.8	1371.9	1368.0	1371.9	1383.4	1387.2	1386.0
5°	1360.4	1370.6	1384.8	1387.2	1389.8	1388.6	1386.0	1388.6	1401.4	1403.9	1405.2
7.5°	1350.1	1369.4	1387.2	1391.1	1395.0	1391.1	1389.8	1392.4	1405.2	1407.8	1407.8
10°	1337.3	1364.2	1384.8	1387.2	1391.1	1387.2	1387.2	1392.4	1405.2	1407.8	1409.0
12.5°	1319.3	1356.5	1375.8	1378.3	1383.4	1382.2	1380.8	1386.0	1398.8	1401.4	1401.4
15°	1298.9	1342.4	1360.4	1362.9	1371.9	1369.4	1369.4	1374.4	1388.6	1392.4	1391.1
17.5°	1270.7	1324.5	1345.0	1348.8	1355.2	1354.0	1355.2	1360.4	1373.2	1375.8	1377.0
20°	1238.6	1300.1	1324.5	1328.3	1334.7	1334.7	1334.7	1341.1	1354.0	1359.1	1359.1
22.5°	1195.1	1274.5	1300.1	1302.7	1310.5	1310.5	1312.9	1321.9	1333.5	1334.7	1334.7
25°	1143.9	1246.4	1268.1	1275.8	1283.5	1287.3	1291.2	1296.3	1300.1	1298.9	1300.1
27.5°	1090.1	1210.5	1238.6	1243.8	1254.0	1257.9	1263.0	1264.3	1265.6	1269.4	1266.9
30°	1029.9	1160.5	1202.8	1208.0	1224.6	1227.2	1222.0	1224.6	1231.0	1233.6	1236.2
32.5°	962.0	1086.2	1165.7	1177.2	1192.6	1184.9	1183.6	1187.4	1197.7	1197.7	1200.2
35°	869.7	1028.6	1131.1	1141.3	1152.9	1143.9	1149.1	1150.3	1156.7	1160.5	1159.3
37.5°	768.6	978.7	1095.2	1102.9	1111.9	1100.4	1108.0	1111.9	1117.0	1114.4	1114.4
40°	678.9	900.5	1053.0	1058.0	1065.8	1056.8	1064.4	1067.0	1069.6	1067.0	1065.8
42.5°	612.3	814.7	1008.1	1014.5	1009.3	1015.8	1018.3	1023.5	1019.7	1014.5	1014.5
45°	561.1	791.6	959.4	967.1	959.4	969.7	973.5	973.5	962.0	959.4	958.2
47.5°	544.4	745.5	910.8	910.8	906.9	919.8	926.2	917.2	905.6	901.8	901.8
50°	543.1	694.3	844.1	839.1	856.9	872.3	865.9	856.9	847.9	833.9	833.9
52.5°	493.2	631.5	758.4	777.6	805.7	814.7	804.4	795.5	780.1	773.6	768.6
55°	457.3	566.2	680.2	718.6	748.1	759.6	740.4	731.4	708.3	704.5	701.9
57.5°	449.6	471.4	608.4	657.1	692.9	691.7	680.2	663.5	644.3	640.5	639.2
60°	412.5	340.7	531.6	589.2	626.4	622.6	612.3	596.9	579.0	576.4	573.9
62.5°	374.1	247.2	444.5	509.8	562.3	561.1	552.1	529.1	516.2	509.8	504.7
65°	317.6	207.5	316.4	424.0	499.6	502.1	482.9	466.2	452.2	444.5	443.2
67.5°	242.1	169.1	213.9	353.5	439.4	436.8	412.5	404.8	386.9	383.1	375.3
70°	179.3	112.7	148.6	287.0	380.5	374.1	354.8	345.9	329.2	320.2	315.2
72.5°	148.6	90.9	108.9	222.9	320.2	312.6	295.9	285.6	271.6	263.9	258.7
75°	120.4	96.1	83.3	165.2	260.0	254.9	239.5	229.3	217.7	207.5	208.8
77.5°	88.4	89.7	66.6	121.7	206.3	198.5	189.6	176.8	171.6	161.4	161.4
80°	66.6	70.5	49.9	83.3	148.6	148.6	140.9	132.0	123.0	117.8	117.8
82.5°	44.8	44.8	37.1	52.5	101.2	97.3	92.3	89.7	84.5	81.9	81.9
85°	20.5	25.6	23.0	32.0	55.1	57.7	57.7	55.1	53.8	51.3	52.5
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°	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.5	20.0	15.0	15.0
92.5°	15.8	42.5	69.3	76.0	106.9	147.9	168.5	147.6	106.0	74.8	71.8
95°	37.8	86.8	135.8	148.0	262.8	415.9	492.5	439.5	333.5	253.9	245.0
97.5°	65.3	108.5	151.7	162.5	354.0	609.3	737.0	703.5	636.4	586.2	569.0
100°	86.6	125.8	164.9	174.8	387.3	670.5	812.1	814.6	819.5	823.1	802.7
102.5°	104.8	141.3	177.8	187.0	402.4	689.8	833.4	876.1	961.5	1025.5	1008.0
105°	135.4	166.4	197.4	205.1	413.8	692.0	831.0	926.7	1118.2	1261.7	1252.3
107.5°	166.9	195.8	224.6	231.9	415.8	661.1	783.8	917.3	1184.3	1384.6	1386.9
110°	188.1	214.2	240.4	246.9	412.8	633.8	744.4	893.7	1192.1	1416.0	1425.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	209.0	233.9	258.7	264.9	412.8	610.1	708.6	861.3	1166.8	1395.9	1411.0
115°	240.6	263.5	286.4	292.1	416.7	582.7	665.7	812.9	1107.1	1327.8	1348.7
117.5°	271.6	292.4	313.2	318.5	424.4	565.6	636.1	769.0	1034.6	1233.8	1256.9
120°	289.7	309.3	329.0	333.9	430.7	559.8	624.4	745.7	988.3	1170.4	1192.8
122.5°	307.4	327.2	347.0	351.9	439.7	556.8	615.3	724.6	943.2	1107.0	1129.2
125°	334.6	352.6	370.6	375.1	451.9	554.3	605.5	698.3	883.9	1023.2	1043.6
127.5°	356.7	374.8	393.0	397.6	464.1	552.8	597.2	676.9	836.3	955.9	973.0
130°	368.4	388.0	407.7	412.6	473.0	553.7	594.0	665.0	806.9	913.3	929.2
132.5°	380.7	400.2	419.9	424.8	480.3	554.3	591.3	654.8	781.9	877.1	891.3
135°	398.8	416.7	434.4	438.9	488.1	553.7	586.6	639.8	746.1	825.9	838.2
137.5°	417.3	435.0	452.7	457.1	499.9	557.1	585.8	630.8	720.7	788.2	798.2
140°	432.6	448.9	465.2	469.3	507.2	557.7	583.0	621.9	699.5	757.8	767.2
142.5°	444.5	459.5	474.5	478.3	513.2	559.7	583.0	617.1	685.4	736.6	744.7
145°	462.6	475.7	488.9	492.1	521.1	559.8	579.1	607.0	662.9	704.7	710.8
147.5°	480.7	493.4	506.2	509.4	532.6	563.6	579.1	601.1	644.9	677.9	682.9
150°	492.5	504.0	515.6	518.5	538.7	565.6	579.1	597.6	634.8	662.6	666.7
152.5°	504.7	513.5	522.2	524.4	542.6	567.0	579.1	595.0	626.6	650.4	653.5
155°	522.8	529.3	535.8	537.4	551.3	569.8	579.1	591.7	616.8	635.7	637.8
157.5°	536.1	542.4	548.7	550.4	559.9	572.7	579.1	588.9	608.4	623.1	624.6
160°	545.2	550.2	555.0	556.3	563.9	574.1	579.1	587.5	604.2	616.8	617.7
162.5°	554.3	558.0	561.6	562.6	568.1	575.5	579.1	586.2	600.4	611.0	611.8
165°	564.1	567.5	570.7	571.6	574.1	577.4	579.1	584.2	594.3	601.9	602.8
167.5°	573.2	574.7	576.3	576.7	578.8	581.6	583.0	586.4	593.1	598.0	598.4
170°	579.1	580.6	582.3	582.6	582.7	582.9	583.0	586.4	593.1	598.0	598.0
172.5°	582.3	582.6	582.9	583.0	583.0	583.0	583.0	585.7	591.0	594.9	594.6
175°	586.6	586.6	586.6	586.6	585.4	583.8	583.0	584.7	588.0	590.5	590.5
177.5°	586.6	586.6	586.6	586.6	585.6	584.4	583.8	585.1	587.7	589.7	589.3
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1388.6	1384.8	1388.6	1386.0	1387.2	1383.4	1371.9	1368.0	1371.9	1375.8	1375.8
5°	1405.2	1402.6	1405.2	1405.2	1403.9	1401.4	1388.6	1386.0	1388.6	1389.8	1387.2
7.5°	1410.3	1406.5	1410.3	1407.8	1407.8	1405.2	1392.4	1389.8	1391.1	1395.0	1391.1
10°	1410.3	1406.5	1410.3	1409.0	1407.8	1405.2	1392.4	1387.2	1387.2	1391.1	1387.2
12.5°	1403.9	1401.4	1403.9	1401.4	1401.4	1398.8	1386.0	1380.8	1382.2	1383.4	1378.3
15°	1393.6	1389.8	1393.6	1391.1	1392.4	1388.6	1374.4	1369.4	1369.4	1371.9	1362.9
17.5°	1378.3	1373.2	1378.3	1377.0	1375.8	1373.2	1360.4	1355.2	1354.0	1355.2	1348.8
20°	1360.4	1356.5	1360.4	1359.1	1359.1	1354.0	1341.1	1334.7	1334.7	1334.7	1328.3
22.5°	1332.2	1328.3	1332.2	1334.7	1334.7	1333.5	1321.9	1312.9	1310.5	1310.5	1302.7
25°	1300.1	1296.3	1300.1	1300.1	1298.9	1300.1	1296.3	1291.2	1287.3	1283.5	1275.8
27.5°	1269.4	1266.9	1269.4	1266.9	1269.4	1265.6	1264.3	1263.0	1257.9	1254.0	1243.8
30°	1238.6	1236.2	1238.6	1236.2	1233.6	1231.0	1224.6	1222.0	1227.2	1224.6	1208.0
32.5°	1200.2	1197.7	1200.2	1200.2	1197.7	1197.7	1187.4	1183.6	1184.9	1192.6	1177.2
35°	1160.5	1156.7	1160.5	1159.3	1160.5	1156.7	1150.3	1149.1	1143.9	1152.9	1141.3
37.5°	1114.4	1110.6	1114.4	1114.4	1114.4	1117.0	1111.9	1108.0	1100.4	1111.9	1102.9
40°	1067.0	1061.9	1067.0	1065.8	1067.0	1069.6	1067.0	1064.4	1056.8	1065.8	1058.0
42.5°	1013.3	1011.9	1013.3	1014.5	1014.5	1019.7	1023.5	1018.3	1015.8	1009.3	1014.5
45°	955.6	953.0	955.6	958.2	959.4	962.0	973.5	973.5	969.7	959.4	967.1
47.5°	894.1	887.7	894.1	901.8	901.8	905.6	917.2	926.2	919.8	906.9	910.8
50°	828.7	830.1	828.7	833.9	833.9	847.9	856.9	865.9	872.3	856.9	839.1
52.5°	764.8	763.4	764.8	768.6	773.6	780.1	795.5	804.4	814.7	805.7	777.6
55°	700.7	703.3	700.7	701.9	704.5	708.3	731.4	740.4	759.6	748.1	718.6
57.5°	636.6	632.8	636.6	639.2	640.5	644.3	663.5	680.2	691.7	692.9	657.1
60°	562.3	557.2	562.3	573.9	576.4	579.0	596.9	612.3	622.6	626.4	589.2
62.5°	497.0	488.0	497.0	504.7	509.8	516.2	529.1	552.1	561.1	562.3	509.8
65°	427.8	424.0	427.8	443.2	444.5	452.2	466.2	482.9	502.1	499.6	424.0
67.5°	365.1	365.1	365.1	375.3	383.1	386.9	404.8	412.5	436.8	439.4	353.5
70°	307.4	306.2	307.4	315.2	320.2	329.2	345.9	354.8	374.1	380.5	287.0
72.5°	252.3	251.1	252.3	258.7	263.9	271.6	285.6	295.9	312.6	320.2	222.9
75°	203.7	201.1	203.7	208.8	207.5	217.7	229.3	239.5	254.9	260.0	165.2
77.5°	156.2	156.2	156.2	161.4	161.4	171.6	176.8	189.6	198.5	206.3	121.7
80°	116.6	115.3	116.6	117.8	117.8	123.0	132.0	140.9	148.6	148.6	83.3
82.5°	81.9	79.5	81.9	81.9	81.9	84.5	89.7	92.3	97.3	101.2	52.5
85°	51.3	51.3	51.3	52.5	51.3	53.8	55.1	57.7	57.7	55.1	32.0
87.5°	33.3	32.0	33.3	32.0	32.0	30.8	30.8	30.8	29.5	28.2	18.0
90°	15.0	15.0	15.0	15.0	15.0	20.0	26.5	29.9	25.7	17.3	11.0
92.5°	59.9	48.0	59.9	71.8	74.8	106.0	147.6	168.5	147.9	106.9	76.0
95°	208.9	172.9	208.9	245.0	253.9	333.5	439.5	492.5	415.9	262.8	148.0
97.5°	500.4	431.9	500.4	569.0	586.2	636.4	703.5	737.0	609.3	354.0	162.5
100°	721.0	639.3	721.0	802.7	823.1	819.5	814.6	812.1	670.5	387.3	174.8
102.5°	938.0	868.0	938.0	1008.0	1025.5	961.5	876.1	833.4	689.8	402.4	187.0
105°	1214.7	1177.0	1214.7	1252.3	1261.7	1118.2	926.7	831.0	692.0	413.8	205.1
107.5°	1395.9	1405.0	1395.9	1386.9	1384.6	1184.3	917.3	783.8	661.1	415.8	231.9
110°	1465.0	1504.2	1465.0	1425.8	1416.0	1192.1	893.7	744.4	633.8	412.8	246.9



TEST NUMBER: P934304

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1471.2	1531.3	1471.2	1411.0	1395.9	1166.8	861.3	708.6	610.1	412.8	264.9
115°	1432.1	1515.6	1432.1	1348.7	1327.8	1107.1	812.9	665.7	582.7	416.7	292.1
117.5°	1349.5	1442.0	1349.5	1256.9	1233.8	1034.6	769.0	636.1	565.6	424.4	318.5
120°	1282.8	1372.7	1282.8	1192.8	1170.4	988.3	745.7	624.4	559.8	430.7	333.9
122.5°	1217.9	1306.6	1217.9	1129.2	1107.0	943.2	724.6	615.3	556.8	439.7	351.9
125°	1125.3	1207.0	1125.3	1043.6	1023.2	883.9	698.3	605.5	554.3	451.9	375.1
127.5°	1042.0	1111.0	1042.0	973.0	955.9	836.3	676.9	597.2	552.8	464.1	397.6
130°	992.9	1056.6	992.9	929.2	913.3	806.9	665.0	594.0	553.7	473.0	412.6
132.5°	948.4	1005.4	948.4	891.3	877.1	781.9	654.8	591.3	554.3	480.3	424.8
135°	887.4	936.6	887.4	838.2	825.9	746.1	639.8	586.6	553.7	488.1	438.9
137.5°	838.5	878.7	838.5	798.2	788.2	720.7	630.8	585.8	557.1	499.9	457.1
140°	804.8	842.4	804.8	767.2	757.8	699.5	621.9	583.0	557.7	507.2	469.3
142.5°	777.0	809.4	777.0	744.7	736.6	685.4	617.1	583.0	559.7	513.2	478.3
145°	735.4	759.8	735.4	710.8	704.7	662.9	607.0	579.1	559.8	521.1	492.1
147.5°	703.3	723.6	703.3	682.9	677.9	644.9	601.1	579.1	563.6	532.6	509.4
150°	683.1	699.5	683.1	666.7	662.6	634.8	597.6	579.1	565.6	538.7	518.5
152.5°	665.9	678.3	665.9	653.5	650.4	626.6	595.0	579.1	567.0	542.6	524.4
155°	646.1	654.3	646.1	637.8	635.7	616.8	591.7	579.1	569.8	551.3	537.4
157.5°	630.4	636.1	630.4	624.6	623.1	608.4	588.9	579.1	572.7	559.9	550.4
160°	621.0	624.4	621.0	617.7	616.8	604.2	587.5	579.1	574.1	563.9	556.3
162.5°	614.9	618.1	614.9	611.8	611.0	600.4	586.2	579.1	575.5	568.1	562.6
165°	606.0	609.4	606.0	602.8	601.9	594.3	584.2	579.1	577.4	574.1	571.6
167.5°	599.7	601.2	599.7	598.4	598.0	593.1	586.4	583.0	581.6	578.8	576.7
170°	598.0	598.0	598.0	598.0	598.0	593.1	586.4	583.0	582.9	582.7	582.6
172.5°	593.3	592.1	593.3	594.6	594.9	591.0	585.7	583.0	583.0	583.0	583.0
175°	590.5	590.5	590.5	590.5	590.5	588.0	584.7	583.0	583.8	585.4	586.6
177.5°	588.0	586.6	588.0	589.3	589.7	587.7	585.1	583.8	584.4	585.6	586.6
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6



TEST NUMBER: P934304

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1373.2	1365.5	1365.5	1352.7	1347.6	1343.7	1337.3	1318.1	1312.9	1307.9	1315.5
5°	1384.8	1370.6	1360.4	1337.3	1318.1	1310.5	1286.1	1240.0	1209.2	1186.1	1173.3
7.5°	1387.2	1369.4	1350.1	1314.3	1268.1	1247.6	1173.3	1088.8	1065.8	1045.2	1032.5
10°	1384.8	1364.2	1337.3	1283.5	1174.6	1138.7	1064.4	1009.3	995.3	991.5	995.3
12.5°	1375.8	1356.5	1319.3	1229.8	1077.2	1053.0	1009.3	977.3	974.8	981.2	1015.8
15°	1360.4	1342.4	1298.9	1157.9	1023.5	1005.5	974.8	963.3	977.3	1022.2	1125.9
17.5°	1345.0	1324.5	1270.7	1087.6	982.5	969.7	947.9	970.9	1050.4	1110.6	1145.1
20°	1324.5	1300.1	1238.6	1036.3	953.0	941.5	931.2	1035.0	1095.2	1117.0	1136.2
22.5°	1300.1	1274.5	1195.1	1000.5	922.2	913.4	919.8	1070.8	1095.2	1110.6	1127.2
25°	1268.1	1246.4	1143.9	972.3	898.0	887.7	912.0	1067.0	1081.2	1085.0	1118.3
27.5°	1238.6	1210.5	1090.1	946.6	868.5	864.7	918.4	1050.4	1060.6	1064.4	1100.4
30°	1202.8	1160.5	1029.9	919.8	837.7	836.5	919.8	1029.9	1027.3	1037.6	1073.4
32.5°	1165.7	1086.2	962.0	886.4	808.3	807.0	910.8	999.1	996.5	1010.7	1037.6
35°	1131.1	1028.6	869.7	847.9	771.2	772.4	889.0	963.3	964.6	977.3	994.1
37.5°	1095.2	978.7	768.6	805.7	735.3	735.3	859.5	930.0	927.4	931.2	954.3
40°	1053.0	900.5	678.9	750.6	701.9	698.1	823.7	894.1	885.1	883.9	915.8
42.5°	1008.1	814.7	612.3	677.7	663.5	658.4	780.1	850.5	833.9	837.7	878.7
45°	959.4	791.6	561.1	572.6	623.8	620.0	732.7	800.6	789.0	799.3	841.5
47.5°	910.8	745.5	544.4	475.2	581.6	580.3	680.2	751.9	745.5	755.8	800.6
50°	844.1	694.3	543.1	407.3	534.1	539.3	617.4	704.5	704.5	713.5	760.8
52.5°	758.4	631.5	493.2	368.9	479.0	494.4	562.3	663.5	666.1	675.1	717.3
55°	680.2	566.2	457.3	339.4	413.7	447.0	508.5	621.2	626.4	635.4	673.8
57.5°	608.4	471.4	449.6	304.8	353.5	385.5	461.2	580.3	582.8	590.5	627.6
60°	531.6	340.7	412.5	267.7	301.0	325.4	417.6	531.6	540.5	545.7	577.7
62.5°	444.5	247.2	374.1	242.1	275.4	280.5	381.7	485.5	497.0	500.9	520.1
65°	316.4	207.5	317.6	220.3	248.5	249.8	343.3	438.1	448.4	454.8	468.8
67.5°	213.9	169.1	242.1	199.8	228.1	229.3	306.2	383.1	397.1	402.2	411.2
70°	148.6	112.7	179.3	178.0	204.9	207.5	266.4	333.0	345.9	349.7	354.8
72.5°	108.9	90.9	148.6	160.2	180.6	183.2	225.5	276.7	289.5	293.4	295.9
75°	83.3	96.1	120.4	139.6	153.8	155.0	184.4	225.5	234.5	236.9	238.3
77.5°	66.6	89.7	88.4	112.7	125.5	123.0	144.8	174.2	181.9	181.9	181.9
80°	49.9	70.5	66.6	80.7	92.3	89.7	103.7	124.2	126.8	129.4	128.1
82.5°	37.1	44.8	44.8	51.3	61.5	58.9	69.1	80.7	80.7	80.7	83.3
85°	23.0	25.6	20.5	26.9	34.6	33.3	38.4	43.5	44.8	44.8	42.3
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°	10.2	7.1	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.5	20.0
92.5°	69.3	42.5	15.8	42.5	69.3	76.0	106.9	147.9	168.5	147.6	106.0
95°	135.8	86.8	37.8	86.8	135.8	148.0	262.8	415.9	492.5	439.5	333.5
97.5°	151.7	108.5	65.3	108.5	151.7	162.5	354.0	609.3	737.0	703.5	636.4
100°	164.9	125.8	86.6	125.8	164.9	174.8	387.3	670.5	812.1	814.6	819.5
102.5°	177.8	141.3	104.8	141.3	177.8	187.0	402.4	689.8	833.4	876.1	961.5
105°	197.4	166.4	135.4	166.4	197.4	205.1	413.8	692.0	831.0	926.7	1118.2
107.5°	224.6	195.8	166.9	195.8	224.6	231.9	415.8	661.1	783.8	917.3	1184.3
110°	240.4	214.2	188.1	214.2	240.4	246.9	412.8	633.8	744.4	893.7	1192.1



TEST NUMBER: P934304

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	258.7	233.9	209.0	233.9	258.7	264.9	412.8	610.1	708.6	861.3	1166.8
115°	286.4	263.5	240.6	263.5	286.4	292.1	416.7	582.7	665.7	812.9	1107.1
117.5°	313.2	292.4	271.6	292.4	313.2	318.5	424.4	565.6	636.1	769.0	1034.6
120°	329.0	309.3	289.7	309.3	329.0	333.9	430.7	559.8	624.4	745.7	988.3
122.5°	347.0	327.2	307.4	327.2	347.0	351.9	439.7	556.8	615.3	724.6	943.2
125°	370.6	352.6	334.6	352.6	370.6	375.1	451.9	554.3	605.5	698.3	883.9
127.5°	393.0	374.8	356.7	374.8	393.0	397.6	464.1	552.8	597.2	676.9	836.3
130°	407.7	388.0	368.4	388.0	407.7	412.6	473.0	553.7	594.0	665.0	806.9
132.5°	419.9	400.2	380.7	400.2	419.9	424.8	480.3	554.3	591.3	654.8	781.9
135°	434.4	416.7	398.8	416.7	434.4	438.9	488.1	553.7	586.6	639.8	746.1
137.5°	452.7	435.0	417.3	435.0	452.7	457.1	499.9	557.1	585.8	630.8	720.7
140°	465.2	448.9	432.6	448.9	465.2	469.3	507.2	557.7	583.0	621.9	699.5
142.5°	474.5	459.5	444.5	459.5	474.5	478.3	513.2	559.7	583.0	617.1	685.4
145°	488.9	475.7	462.6	475.7	488.9	492.1	521.1	559.8	579.1	607.0	662.9
147.5°	506.2	493.4	480.7	493.4	506.2	509.4	532.6	563.6	579.1	601.1	644.9
150°	515.6	504.0	492.5	504.0	515.6	518.5	538.7	565.6	579.1	597.6	634.8
152.5°	522.2	513.5	504.7	513.5	522.2	524.4	542.6	567.0	579.1	595.0	626.6
155°	535.8	529.3	522.8	529.3	535.8	537.4	551.3	569.8	579.1	591.7	616.8
157.5°	548.7	542.4	536.1	542.4	548.7	550.4	559.9	572.7	579.1	588.9	608.4
160°	555.0	550.2	545.2	550.2	555.0	556.3	563.9	574.1	579.1	587.5	604.2
162.5°	561.6	558.0	554.3	558.0	561.6	562.6	568.1	575.5	579.1	586.2	600.4
165°	570.7	567.5	564.1	567.5	570.7	571.6	574.1	577.4	579.1	584.2	594.3
167.5°	576.3	574.7	573.2	574.7	576.3	576.7	578.8	581.6	583.0	586.4	593.1
170°	582.3	580.6	579.1	580.6	582.3	582.6	582.7	582.9	583.0	586.4	593.1
172.5°	582.9	582.6	582.3	582.6	582.9	583.0	583.0	583.0	583.0	585.7	591.0
175°	586.6	586.6	586.6	586.6	586.6	586.6	585.4	583.8	583.0	584.7	588.0
177.5°	586.6	586.6	586.6	586.6	586.6	586.6	585.6	584.4	583.8	585.1	587.7
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6



TEST NUMBER: P934304
 CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1306.5	1302.7	1307.9	1293.7	1307.9	1302.7	1306.5	1315.5	1307.9	1312.9	1318.1
5°	1146.5	1140.1	1119.5	1102.9	1119.5	1140.1	1146.5	1173.3	1186.1	1209.2	1240.0
7.5°	1024.7	1019.7	1014.5	1004.3	1014.5	1019.7	1024.7	1032.5	1045.2	1065.8	1088.8
10°	997.9	999.1	1006.9	1005.5	1006.9	999.1	997.9	995.3	991.5	995.3	1009.3
12.5°	1067.0	1078.6	1120.8	1118.3	1120.8	1078.6	1067.0	1015.8	981.2	974.8	977.3
15°	1146.5	1150.3	1159.3	1160.5	1159.3	1150.3	1146.5	1125.9	1022.2	977.3	963.3
17.5°	1154.1	1155.5	1161.9	1161.9	1161.9	1155.5	1154.1	1145.1	1110.6	1050.4	970.9
20°	1147.7	1150.3	1163.1	1165.7	1163.1	1150.3	1147.7	1136.2	1117.0	1095.2	1035.0
22.5°	1145.1	1150.3	1160.5	1159.3	1160.5	1150.3	1145.1	1127.2	1110.6	1095.2	1070.8
25°	1132.3	1132.3	1133.7	1134.9	1133.7	1132.3	1132.3	1118.3	1085.0	1081.2	1067.0
27.5°	1105.4	1108.0	1115.7	1114.4	1115.7	1108.0	1105.4	1100.4	1064.4	1060.6	1050.4
30°	1081.2	1078.6	1072.2	1067.0	1072.2	1078.6	1081.2	1073.4	1037.6	1027.3	1029.9
32.5°	1040.1	1033.7	1027.3	1023.5	1027.3	1033.7	1040.1	1037.6	1010.7	996.5	999.1
35°	991.5	992.7	991.5	987.6	991.5	992.7	991.5	994.1	977.3	964.6	963.3
37.5°	956.9	959.4	958.2	953.0	958.2	959.4	956.9	954.3	931.2	927.4	930.0
40°	921.0	922.2	921.0	917.2	921.0	922.2	921.0	915.8	883.9	885.1	894.1
42.5°	886.4	885.1	881.3	878.7	881.3	885.1	886.4	878.7	837.7	833.9	850.5
45°	846.7	847.9	840.3	836.5	840.3	847.9	846.7	841.5	799.3	789.0	800.6
47.5°	807.0	807.0	800.6	796.8	800.6	807.0	807.0	800.6	755.8	745.5	751.9
50°	764.8	763.4	754.4	753.2	754.4	763.4	764.8	760.8	713.5	704.5	704.5
52.5°	716.1	716.1	717.3	719.9	717.3	716.1	716.1	717.3	675.1	666.1	663.5
55°	673.8	675.1	684.1	686.5	684.1	675.1	673.8	673.8	635.4	626.4	621.2
57.5°	630.2	630.2	636.6	636.6	636.6	630.2	630.2	627.6	590.5	582.8	580.3
60°	580.3	582.8	588.0	586.7	588.0	582.8	580.3	577.7	545.7	540.5	531.6
62.5°	527.7	530.3	531.6	529.1	531.6	530.3	527.7	520.1	500.9	497.0	485.5
65°	472.6	475.2	476.5	474.0	476.5	475.2	472.6	468.8	454.8	448.4	438.1
67.5°	416.3	415.0	413.7	418.9	413.7	415.0	416.3	411.2	402.2	397.1	383.1
70°	358.7	358.7	357.4	359.9	357.4	358.7	358.7	354.8	349.7	345.9	333.0
72.5°	297.2	295.9	301.0	297.2	301.0	295.9	297.2	295.9	293.4	289.5	276.7
75°	236.9	239.5	236.9	240.9	236.9	239.5	236.9	238.3	236.9	234.5	225.5
77.5°	180.6	183.2	180.6	180.6	180.6	183.2	180.6	181.9	181.9	181.9	174.2
80°	128.1	126.8	126.8	125.5	126.8	126.8	128.1	128.1	129.4	126.8	124.2
82.5°	81.9	80.7	80.7	83.3	80.7	80.7	81.9	83.3	80.7	80.7	80.7
85°	44.8	46.1	43.5	43.5	43.5	46.1	44.8	42.3	44.8	44.8	43.5
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°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	20.0	26.5	29.9	25.7
92.5°	74.8	71.8	59.9	48.0	59.9	71.8	74.8	106.0	147.6	168.5	147.9
95°	253.9	245.0	208.9	172.9	208.9	245.0	253.9	333.5	439.5	492.5	415.9
97.5°	586.2	569.0	500.4	431.9	500.4	569.0	586.2	636.4	703.5	737.0	609.3
100°	823.1	802.7	721.0	639.3	721.0	802.7	823.1	819.5	814.6	812.1	670.5
102.5°	1025.5	1008.0	938.0	868.0	938.0	1008.0	1025.5	961.5	876.1	833.4	689.8
105°	1261.7	1252.3	1214.7	1177.0	1214.7	1252.3	1261.7	1118.2	926.7	831.0	692.0
107.5°	1384.6	1386.9	1395.9	1405.0	1395.9	1386.9	1384.6	1184.3	917.3	783.8	661.1
110°	1416.0	1425.8	1465.0	1504.2	1465.0	1425.8	1416.0	1192.1	893.7	744.4	633.8



TEST NUMBER: P934304

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1395.9	1411.0	1471.2	1531.3	1471.2	1411.0	1395.9	1166.8	861.3	708.6	610.1
115°	1327.8	1348.7	1432.1	1515.6	1432.1	1348.7	1327.8	1107.1	812.9	665.7	582.7
117.5°	1233.8	1256.9	1349.5	1442.0	1349.5	1256.9	1233.8	1034.6	769.0	636.1	565.6
120°	1170.4	1192.8	1282.8	1372.7	1282.8	1192.8	1170.4	988.3	745.7	624.4	559.8
122.5°	1107.0	1129.2	1217.9	1306.6	1217.9	1129.2	1107.0	943.2	724.6	615.3	556.8
125°	1023.2	1043.6	1125.3	1207.0	1125.3	1043.6	1023.2	883.9	698.3	605.5	554.3
127.5°	955.9	973.0	1042.0	1111.0	1042.0	973.0	955.9	836.3	676.9	597.2	552.8
130°	913.3	929.2	992.9	1056.6	992.9	929.2	913.3	806.9	665.0	594.0	553.7
132.5°	877.1	891.3	948.4	1005.4	948.4	891.3	877.1	781.9	654.8	591.3	554.3
135°	825.9	838.2	887.4	936.6	887.4	838.2	825.9	746.1	639.8	586.6	553.7
137.5°	788.2	798.2	838.5	878.7	838.5	798.2	788.2	720.7	630.8	585.8	557.1
140°	757.8	767.2	804.8	842.4	804.8	767.2	757.8	699.5	621.9	583.0	557.7
142.5°	736.6	744.7	777.0	809.4	777.0	744.7	736.6	685.4	617.1	583.0	559.7
145°	704.7	710.8	735.4	759.8	735.4	710.8	704.7	662.9	607.0	579.1	559.8
147.5°	677.9	682.9	703.3	723.6	703.3	682.9	677.9	644.9	601.1	579.1	563.6
150°	662.6	666.7	683.1	699.5	683.1	666.7	662.6	634.8	597.6	579.1	565.6
152.5°	650.4	653.5	665.9	678.3	665.9	653.5	650.4	626.6	595.0	579.1	567.0
155°	635.7	637.8	646.1	654.3	646.1	637.8	635.7	616.8	591.7	579.1	569.8
157.5°	623.1	624.6	630.4	636.1	630.4	624.6	623.1	608.4	588.9	579.1	572.7
160°	616.8	617.7	621.0	624.4	621.0	617.7	616.8	604.2	587.5	579.1	574.1
162.5°	611.0	611.8	614.9	618.1	614.9	611.8	611.0	600.4	586.2	579.1	575.5
165°	601.9	602.8	606.0	609.4	606.0	602.8	601.9	594.3	584.2	579.1	577.4
167.5°	598.0	598.4	599.7	601.2	599.7	598.4	598.0	593.1	586.4	583.0	581.6
170°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	593.1	586.4	583.0	582.9
172.5°	594.9	594.6	593.3	592.1	593.3	594.6	594.9	591.0	585.7	583.0	583.0
175°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	588.0	584.7	583.0	583.8
177.5°	589.7	589.3	588.0	586.6	588.0	589.3	589.7	587.7	585.1	583.8	584.4
180°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6



TEST NUMBER: P934304

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1337.3	1343.7	1347.6	1352.7	1365.5
5°	1286.1	1310.5	1318.1	1337.3	1360.4
7.5°	1173.3	1247.6	1268.1	1314.3	1350.1
10°	1064.4	1138.7	1174.6	1283.5	1337.3
12.5°	1009.3	1053.0	1077.2	1229.8	1319.3
15°	974.8	1005.5	1023.5	1157.9	1298.9
17.5°	947.9	969.7	982.5	1087.6	1270.7
20°	931.2	941.5	953.0	1036.3	1238.6
22.5°	919.8	913.4	922.2	1000.5	1195.1
25°	912.0	887.7	898.0	972.3	1143.9
27.5°	918.4	864.7	868.5	946.6	1090.1
30°	919.8	836.5	837.7	919.8	1029.9
32.5°	910.8	807.0	808.3	886.4	962.0
35°	889.0	772.4	771.2	847.9	869.7
37.5°	859.5	735.3	735.3	805.7	768.6
40°	823.7	698.1	701.9	750.6	678.9
42.5°	780.1	658.4	663.5	677.7	612.3
45°	732.7	620.0	623.8	572.6	561.1
47.5°	680.2	580.3	581.6	475.2	544.4
50°	617.4	539.3	534.1	407.3	543.1
52.5°	562.3	494.4	479.0	368.9	493.2
55°	508.5	447.0	413.7	339.4	457.3
57.5°	461.2	385.5	353.5	304.8	449.6
60°	417.6	325.4	301.0	267.7	412.5
62.5°	381.7	280.5	275.4	242.1	374.1
65°	343.3	249.8	248.5	220.3	317.6
67.5°	306.2	229.3	228.1	199.8	242.1
70°	266.4	207.5	204.9	178.0	179.3
72.5°	225.5	183.2	180.6	160.2	148.6
75°	184.4	155.0	153.8	139.6	120.4
77.5°	144.8	123.0	125.5	112.7	88.4
80°	103.7	89.7	92.3	80.7	66.6
82.5°	69.1	58.9	61.5	51.3	44.8
85°	38.4	33.3	34.6	26.9	20.5
87.5°	18.0	15.4	15.4	10.2	6.4
90°	17.3	11.0	10.2	7.1	3.9
92.5°	106.9	76.0	69.3	42.5	15.8
95°	262.8	148.0	135.8	86.8	37.8
97.5°	354.0	162.5	151.7	108.5	65.3
100°	387.3	174.8	164.9	125.8	86.6
102.5°	402.4	187.0	177.8	141.3	104.8
105°	413.8	205.1	197.4	166.4	135.4
107.5°	415.8	231.9	224.6	195.8	166.9
110°	412.8	246.9	240.4	214.2	188.1



TEST NUMBER: P934304

CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	412.8	264.9	258.7	233.9	209.0
115°	416.7	292.1	286.4	263.5	240.6
117.5°	424.4	318.5	313.2	292.4	271.6
120°	430.7	333.9	329.0	309.3	289.7
122.5°	439.7	351.9	347.0	327.2	307.4
125°	451.9	375.1	370.6	352.6	334.6
127.5°	464.1	397.6	393.0	374.8	356.7
130°	473.0	412.6	407.7	388.0	368.4
132.5°	480.3	424.8	419.9	400.2	380.7
135°	488.1	438.9	434.4	416.7	398.8
137.5°	499.9	457.1	452.7	435.0	417.3
140°	507.2	469.3	465.2	448.9	432.6
142.5°	513.2	478.3	474.5	459.5	444.5
145°	521.1	492.1	488.9	475.7	462.6
147.5°	532.6	509.4	506.2	493.4	480.7
150°	538.7	518.5	515.6	504.0	492.5
152.5°	542.6	524.4	522.2	513.5	504.7
155°	551.3	537.4	535.8	529.3	522.8
157.5°	559.9	550.4	548.7	542.4	536.1
160°	563.9	556.3	555.0	550.2	545.2
162.5°	568.1	562.6	561.6	558.0	554.3
165°	574.1	571.6	570.7	567.5	564.1
167.5°	578.8	576.7	576.3	574.7	573.2
170°	582.7	582.6	582.3	580.6	579.1
172.5°	583.0	583.0	582.9	582.6	582.3
175°	585.4	586.6	586.6	586.6	586.6
177.5°	585.6	586.6	586.6	586.6	586.6
180°	586.6	586.6	586.6	586.6	586.6



TEST NUMBER: P934304
 CATALOG NUMBER: SQ4-FA-050U-050D-B40-1D-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	11.01	11.85	11.98	12.84	14.14	13.84	14.69	14.82	15.68	16.97
	3H	11.48	12.24	12.47	13.23	14.55	15.19	15.95	16.18	16.94	18.26
	4H	11.67	12.39	12.67	13.39	14.72	15.64	16.35	16.63	17.35	18.68
	6H	11.79	12.45	12.80	13.45	14.80	15.92	16.58	16.93	17.59	18.93
	8H	11.79	12.42	12.81	13.44	14.78	16.00	16.62	17.01	17.65	18.98
	12H	11.76	12.36	12.78	13.37	14.74	16.04	16.63	17.06	17.65	19.01
4H	2H	12.04	12.75	13.04	13.75	15.08	14.25	14.97	15.25	15.97	17.30
	3H	13.06	13.66	14.08	14.69	16.03	15.76	16.35	16.77	17.38	18.73
	4H	13.34	13.88	14.36	14.91	16.27	16.29	16.83	17.31	17.85	19.22
	6H	13.46	13.93	14.50	14.98	16.34	16.65	17.12	17.68	18.17	19.53
	8H	13.47	13.91	14.50	14.94	16.32	16.76	17.20	17.79	18.24	19.61
	12H	13.43	13.83	14.49	14.88	16.27	16.82	17.21	17.87	18.27	19.65
8H	4H	13.79	14.23	14.83	15.27	16.65	16.41	16.85	17.44	17.88	19.26
	6H	14.05	14.42	15.11	15.49	16.87	16.85	17.21	17.90	18.29	19.66
	8H	14.10	14.41	15.16	15.48	16.87	17.00	17.32	18.06	18.38	19.78
	12H	14.08	14.36	15.15	15.42	16.85	17.10	17.38	18.17	18.44	19.87
12H	4H	13.80	14.19	14.85	15.25	16.63	16.37	16.77	17.42	17.82	19.20
	6H	14.11	14.43	15.18	15.50	16.89	16.84	17.16	17.91	18.23	19.62
	8H	14.18	14.46	15.25	15.52	16.96	17.00	17.29	18.07	18.34	19.78