

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: P936098

Luminaire Tested: SQ4-FA-150U-100D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936098
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-100D-B35-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

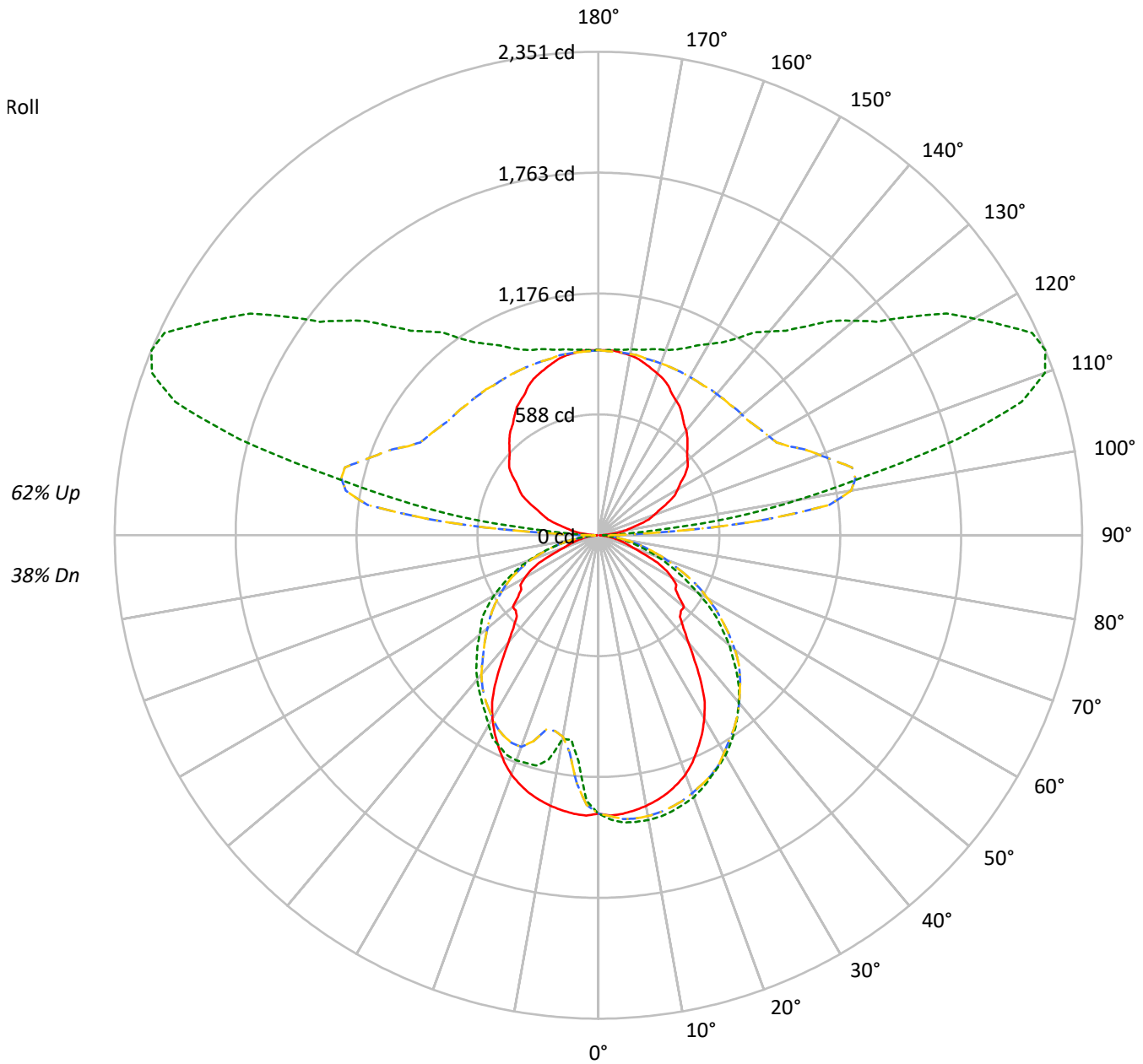
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9349.9 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 72.4
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	94	94	94	94	76	76	76	60	60	60	45	45	45	38			38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32			32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27			27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23			23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19			19
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	29	26	23	22	20	18	15			15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13			13
8	52	40	32	27	47	37	30	25	30	25	21	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	10			10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9			9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12557	12557	12557	12557
5°	12638	12676	12638	9967
10°	12539	12486	12539	8927
15°	12388	12216	12388	10200
20°	12115	11895	12115	10221
25°	11571	11428	11571	10005
30°	10873	11040	10873	9530
35°	9678	10549	9678	9007
40°	8051	9971	8051	8612
45°	7180	9294	7180	8159
50°	7609	8489	7609	7702
55°	7140	7619	7140	7438
60°	7332	6471	7332	6812
65°	6616	5348	6616	5979
70°	4552	4263	4552	5013
75°	3945	3151	3945	3773
80°	3117	2083	3117	2269
85°	1689	1103	1689	937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11024 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.3
10°-20°	346.8	3.7
20°-30°	536.1	5.7
30°-40°	640.0	6.8
40°-50°	643.8	6.9
50°-60°	560.2	6.0
60°-70°	397.2	4.2
70°-80°	210.1	2.2
80°-90°	55.8	0.6
90°-100°	439.0	4.7
100°-110°	1154.1	12.3
110°-120°	1196.6	12.8
120°-130°	959.8	10.3
130°-140°	753.1	8.1
140°-150°	578.1	6.2
150°-160°	416.3	4.5
160°-170°	254.7	2.7
170°-180°	86.1	0.9
0°-30°	1005.1	10.8
0°-40°	1645.2	17.6
0°-60°	2849.1	30.5
0°-90°	3512.2	37.6
90°-120°	2789.6	29.8
90°-150°	5080.6	54.3
90°-180°	5838.0	62.4
0°-180°	9349.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1353	1353	1353	1353	1353	
5°	1360	1402	1360	1102	1360	129
15°	1298	1389	1298	1160	1298	365
25°	1143	1296	1143	1134	1143	525
35°	869	1156	869	987	869	538
45°	561	952	561	836	561	449
55°	457	703	457	686	457	420
65°	318	424	318	474	318	303
75°	120	201	120	241	120	127
85°	20	51	20	44	20	28
90°	6	23	6	23	6	6
95°	58	265	58	265	58	64
105°	208	1807	208	1807	208	220
115°	369	2327	369	2327	369	365
125°	514	1853	514	1853	514	456
135°	612	1438	612	1438	612	474
145°	710	1166	710	1166	710	445
155°	803	1004	803	1004	803	369
165°	866	936	866	936	866	244
175°	900	907	900	907	900	85
180°	900	900	900	900	900	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1364.7	1364.7	1372.5	1375.0	1375.0	1371.1	1367.4	1371.1	1382.7	1386.5	1385.3
5°	1359.7	1369.9	1384.0	1386.5	1389.1	1387.8	1385.3	1387.8	1400.6	1403.2	1404.5
7.5°	1349.4	1368.6	1386.5	1390.4	1394.2	1390.4	1389.1	1391.7	1404.5	1407.0	1407.0
10°	1336.6	1363.5	1384.0	1386.5	1390.4	1386.5	1386.5	1391.7	1404.5	1407.0	1408.3
12.5°	1318.7	1355.8	1375.0	1377.6	1382.7	1381.4	1380.1	1385.3	1398.1	1400.6	1400.6
15°	1298.2	1341.8	1359.7	1362.2	1371.1	1368.6	1368.6	1373.8	1387.8	1391.7	1390.4
17.5°	1270.1	1323.8	1344.3	1348.2	1354.6	1353.2	1354.6	1359.7	1372.5	1375.0	1376.3
20°	1238.0	1299.5	1323.8	1327.6	1334.0	1334.0	1334.0	1340.4	1353.2	1358.3	1358.3
22.5°	1194.5	1273.8	1299.5	1302.0	1309.7	1309.7	1312.3	1321.2	1332.8	1334.0	1334.0
25°	1143.3	1245.7	1267.5	1275.2	1282.9	1286.6	1290.5	1295.6	1299.5	1298.2	1299.5
27.5°	1089.5	1209.9	1238.0	1243.1	1253.4	1257.3	1262.3	1263.7	1264.9	1268.7	1266.2
30°	1029.4	1159.9	1202.1	1207.3	1223.9	1226.5	1221.4	1223.9	1230.3	1233.0	1235.5
32.5°	961.4	1085.7	1165.0	1176.6	1192.0	1184.2	1183.0	1186.8	1197.1	1197.1	1199.6
35°	869.3	1028.1	1130.5	1140.7	1152.2	1143.3	1148.4	1149.7	1156.1	1159.9	1158.6
37.5°	768.1	978.1	1094.7	1102.3	1111.2	1099.7	1107.5	1111.2	1116.4	1113.9	1113.9
40°	678.6	900.0	1052.4	1057.5	1065.2	1056.2	1063.9	1066.5	1069.0	1066.5	1065.2
42.5°	612.0	814.3	1007.6	1014.0	1008.8	1015.2	1017.8	1023.0	1019.1	1014.0	1014.0
45°	560.8	791.2	958.9	966.6	958.9	969.2	973.0	973.0	961.4	958.9	957.7
47.5°	544.1	745.2	910.3	910.3	906.4	919.2	925.7	916.7	905.1	901.4	901.4
50°	542.8	693.9	843.7	838.6	856.5	871.9	865.5	856.5	847.6	833.4	833.4
52.5°	492.9	631.2	758.0	777.1	805.3	814.3	804.0	795.1	779.7	773.3	768.1
55°	457.1	565.9	679.9	718.2	747.7	759.2	740.0	731.0	708.0	704.2	701.6
57.5°	449.4	471.1	608.1	656.8	692.6	691.4	679.9	663.2	644.0	640.1	638.9
60°	412.2	340.5	531.3	589.0	626.1	622.2	612.0	596.6	578.7	576.2	573.6
62.5°	373.8	247.1	444.3	509.6	562.0	560.8	551.8	528.8	516.0	509.6	504.5
65°	317.5	207.4	316.2	423.7	499.3	501.8	482.7	466.0	451.9	444.3	442.9
67.5°	242.0	169.0	213.8	353.4	439.2	436.5	412.2	404.6	386.6	382.8	375.1
70°	179.3	112.7	148.5	286.8	380.2	373.8	354.7	345.6	329.1	320.1	314.9
72.5°	148.5	90.9	108.8	222.8	320.1	312.4	295.7	285.5	271.4	263.8	258.6
75°	120.3	96.0	83.2	165.1	259.9	254.8	239.4	229.2	217.6	207.4	208.7
77.5°	88.4	89.6	66.6	121.6	206.1	198.5	189.4	176.6	171.5	161.3	161.3
80°	66.6	70.4	49.9	83.2	148.5	148.5	140.8	131.9	122.9	117.8	117.8
82.5°	44.8	44.8	37.1	52.5	101.2	97.3	92.2	89.6	84.5	82.0	82.0
85°	20.4	25.6	23.1	32.0	55.0	57.7	57.7	55.0	53.8	51.2	52.5
87.5°	6.4	11.5	14.1	17.9	28.2	29.5	30.7	30.7	30.7	32.0	32.0
90°	6.0	10.9	15.7	17.0	26.6	39.5	45.9	40.8	30.6	23.0	23.0
92.5°	24.1	65.2	106.4	116.7	164.0	227.0	258.6	226.6	162.8	114.8	110.3
95°	58.0	133.2	208.4	227.2	403.5	638.6	756.1	674.7	511.9	389.8	376.0
97.5°	100.3	166.7	233.0	249.6	543.5	935.5	1131.4	1080.0	977.0	899.9	873.6
100°	132.9	193.1	253.3	268.3	594.5	1029.4	1246.8	1250.6	1258.1	1263.8	1232.4
102.5°	160.8	217.0	273.1	287.1	617.9	1058.9	1279.5	1345.0	1476.1	1574.4	1547.6
105°	207.9	255.5	303.0	314.9	635.2	1062.2	1275.8	1422.7	1716.6	1937.0	1922.6
107.5°	256.3	300.6	345.0	356.0	638.5	1015.0	1203.3	1408.2	1818.1	2125.6	2129.1
110°	288.9	328.9	369.0	379.0	633.6	973.1	1142.8	1372.0	1830.2	2174.0	2189.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	320.9	359.1	397.3	406.8	633.8	936.5	1087.9	1322.4	1791.4	2143.1	2166.2
115°	369.3	404.5	439.6	448.5	639.6	894.6	1022.0	1247.9	1699.7	2038.6	2070.7
117.5°	417.1	449.0	481.0	489.0	651.6	868.3	976.7	1180.5	1588.3	1894.1	1929.7
120°	444.8	474.9	504.9	512.5	661.1	859.4	958.5	1144.8	1517.4	1796.8	1831.3
122.5°	472.0	502.3	532.8	540.3	675.1	854.9	944.7	1112.4	1447.9	1699.5	1733.5
125°	513.8	541.4	569.1	576.0	693.8	851.0	929.6	1072.0	1357.0	1570.7	1602.1
127.5°	547.6	575.5	603.4	610.4	712.5	848.7	916.9	1039.3	1283.9	1467.5	1493.9
130°	565.7	595.7	625.8	633.3	726.3	850.1	912.0	1020.9	1238.8	1402.1	1426.6
132.5°	584.4	614.5	644.6	652.1	737.3	851.0	907.8	1005.2	1200.3	1346.5	1368.4
135°	612.2	639.6	667.0	673.8	749.4	850.1	900.5	982.2	1145.5	1267.9	1286.8
137.5°	640.6	667.7	694.9	701.7	767.5	855.4	899.3	968.3	1106.4	1210.0	1225.4
140°	664.2	689.2	714.2	720.5	778.7	856.3	895.1	954.7	1073.9	1163.4	1177.8
142.5°	682.4	705.4	728.5	734.3	787.9	859.3	895.1	947.5	1052.2	1130.8	1143.2
145°	710.2	730.3	750.4	755.4	800.0	859.4	889.1	931.9	1017.5	1081.8	1091.2
147.5°	737.9	757.6	777.1	782.1	817.7	865.3	889.1	922.8	990.1	1040.7	1048.5
150°	756.1	773.8	791.5	795.9	826.9	868.3	889.1	917.5	974.4	1017.2	1023.5
152.5°	774.8	788.3	801.7	805.0	833.0	870.4	889.1	913.4	962.0	998.5	1003.2
155°	802.6	812.6	822.5	825.0	846.3	874.8	889.1	908.4	947.1	976.1	979.3
157.5°	823.2	832.9	842.4	844.9	859.6	879.3	889.1	904.1	934.1	956.7	958.9
160°	837.0	844.6	852.1	854.0	865.7	881.3	889.1	901.9	927.7	947.0	948.3
162.5°	851.0	856.6	862.2	863.7	872.1	883.4	889.1	899.9	921.7	938.0	939.2
165°	866.1	871.1	876.3	877.5	881.4	886.5	889.1	896.8	912.4	924.0	925.3
167.5°	879.9	882.4	884.8	885.4	888.6	892.9	895.1	900.2	910.4	918.0	918.6
170°	889.1	891.5	893.9	894.5	894.7	895.0	895.1	900.2	910.4	918.0	918.0
172.5°	893.9	894.4	895.0	895.1	895.1	895.1	895.1	899.1	907.2	913.2	912.7
175°	900.5	900.5	900.5	900.5	898.7	896.2	895.1	897.6	902.7	906.6	906.6
177.5°	900.5	900.5	900.5	900.5	899.1	897.3	896.3	898.4	902.3	905.3	904.8
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1387.8	1384.0	1387.8	1385.3	1386.5	1382.7	1371.1	1367.4	1371.1	1375.0	1375.0
5°	1404.5	1401.9	1404.5	1404.5	1403.2	1400.6	1387.8	1385.3	1387.8	1389.1	1386.5
7.5°	1409.6	1405.7	1409.6	1407.0	1407.0	1404.5	1391.7	1389.1	1390.4	1394.2	1390.4
10°	1409.6	1405.7	1409.6	1408.3	1407.0	1404.5	1391.7	1386.5	1386.5	1390.4	1386.5
12.5°	1403.2	1400.6	1403.2	1400.6	1400.6	1398.1	1385.3	1380.1	1381.4	1382.7	1377.6
15°	1392.9	1389.1	1392.9	1390.4	1391.7	1387.8	1373.8	1368.6	1368.6	1371.1	1362.2
17.5°	1377.6	1372.5	1377.6	1376.3	1375.0	1372.5	1359.7	1354.6	1353.2	1354.6	1348.2
20°	1359.7	1355.8	1359.7	1358.3	1358.3	1353.2	1340.4	1334.0	1334.0	1334.0	1327.6
22.5°	1331.5	1327.6	1331.5	1334.0	1334.0	1332.8	1321.2	1312.3	1309.7	1309.7	1302.0
25°	1299.5	1295.6	1299.5	1299.5	1298.2	1299.5	1295.6	1290.5	1286.6	1282.9	1275.2
27.5°	1268.7	1266.2	1268.7	1266.2	1268.7	1264.9	1263.7	1262.3	1257.3	1253.4	1243.1
30°	1238.0	1235.5	1238.0	1235.5	1233.0	1230.3	1223.9	1221.4	1226.5	1223.9	1207.3
32.5°	1199.6	1197.1	1199.6	1199.6	1197.1	1197.1	1186.8	1183.0	1184.2	1192.0	1176.6
35°	1159.9	1156.1	1159.9	1158.6	1159.9	1156.1	1149.7	1148.4	1143.3	1152.2	1140.7
37.5°	1113.9	1110.0	1113.9	1113.9	1113.9	1116.4	1111.2	1107.5	1099.7	1111.2	1102.3
40°	1066.5	1061.3	1066.5	1065.2	1066.5	1069.0	1066.5	1063.9	1056.2	1065.2	1057.5
42.5°	1012.7	1011.4	1012.7	1014.0	1014.0	1019.1	1023.0	1017.8	1015.2	1008.8	1014.0
45°	955.0	952.5	955.0	957.7	958.9	961.4	973.0	973.0	969.2	958.9	966.6
47.5°	893.6	887.2	893.6	901.4	901.4	905.1	916.7	925.7	919.2	906.4	910.3
50°	828.3	829.7	828.3	833.4	833.4	847.6	856.5	865.5	871.9	856.5	838.6
52.5°	764.3	763.1	764.3	768.1	773.3	779.7	795.1	804.0	814.3	805.3	777.1
55°	700.3	702.9	700.3	701.6	704.2	708.0	731.0	740.0	759.2	747.7	718.2
57.5°	636.3	632.5	636.3	638.9	640.1	644.0	663.2	679.9	691.4	692.6	656.8
60°	562.0	556.9	562.0	573.6	576.2	578.7	596.6	612.0	622.2	626.1	589.0
62.5°	496.7	487.8	496.7	504.5	509.6	516.0	528.8	551.8	560.8	562.0	509.6
65°	427.6	423.7	427.6	442.9	444.3	451.9	466.0	482.7	501.8	499.3	423.7
67.5°	364.9	364.9	364.9	375.1	382.8	386.6	404.6	412.2	436.5	439.2	353.4
70°	307.3	306.0	307.3	314.9	320.1	329.1	345.6	354.7	373.8	380.2	286.8
72.5°	252.2	251.0	252.2	258.6	263.8	271.4	285.5	295.7	312.4	320.1	222.8
75°	203.6	201.0	203.6	208.7	207.4	217.6	229.2	239.4	254.8	259.9	165.1
77.5°	156.2	156.2	156.2	161.3	161.3	171.5	176.6	189.4	198.5	206.1	121.6
80°	116.5	115.2	116.5	117.8	117.8	122.9	131.9	140.8	148.5	148.5	83.2
82.5°	82.0	79.4	82.0	82.0	82.0	84.5	89.6	92.2	97.3	101.2	52.5
85°	51.2	51.2	51.2	52.5	51.2	53.8	55.0	57.7	57.7	55.0	32.0
87.5°	33.3	32.0	33.3	32.0	32.0	30.7	30.7	30.7	29.5	28.2	17.9
90°	23.0	23.0	23.0	23.0	23.0	30.6	40.8	45.9	39.5	26.6	17.0
92.5°	92.0	73.7	92.0	110.3	114.8	162.8	226.6	258.6	227.0	164.0	116.7
95°	320.6	265.3	320.6	376.0	389.8	511.9	674.7	756.1	638.6	403.5	227.2
97.5°	768.3	663.0	768.3	873.6	899.9	977.0	1080.0	1131.4	935.5	543.5	249.6
100°	1107.0	981.5	1107.0	1232.4	1263.8	1258.1	1250.6	1246.8	1029.4	594.5	268.3
102.5°	1440.1	1332.7	1440.1	1547.6	1574.4	1476.1	1345.0	1279.5	1058.9	617.9	287.1
105°	1864.8	1807.1	1864.8	1922.6	1937.0	1716.6	1422.7	1275.8	1062.2	635.2	314.9
107.5°	2143.0	2157.0	2143.0	2129.1	2125.6	1818.1	1408.2	1203.3	1015.0	638.5	356.0
110°	2249.1	2309.3	2249.1	2189.0	2174.0	1830.2	1372.0	1142.8	973.1	633.6	379.0



TEST NUMBER: P936098

CATALOG NUMBER: SQ4-FA-150U-100D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2258.6	2351.0	2258.6	2166.2	2143.1	1791.4	1322.4	1087.9	936.5	633.8	406.8
115°	2198.8	2326.9	2198.8	2070.7	2038.6	1699.7	1247.9	1022.0	894.6	639.6	448.5
117.5°	2071.7	2213.8	2071.7	1929.7	1894.1	1588.3	1180.5	976.7	868.3	651.6	489.0
120°	1969.4	2107.5	1969.4	1831.3	1796.8	1517.4	1144.8	958.5	859.4	661.1	512.5
122.5°	1869.8	2005.9	1869.8	1733.5	1699.5	1447.9	1112.4	944.7	854.9	675.1	540.3
125°	1727.5	1853.0	1727.5	1602.1	1570.7	1357.0	1072.0	929.6	851.0	693.8	576.0
127.5°	1599.7	1705.5	1599.7	1493.9	1467.5	1283.9	1039.3	916.9	848.7	712.5	610.4
130°	1524.3	1622.1	1524.3	1426.6	1402.1	1238.8	1020.9	912.0	850.1	726.3	633.3
132.5°	1455.9	1543.5	1455.9	1368.4	1346.5	1200.3	1005.2	907.8	851.0	737.3	652.1
135°	1362.3	1437.8	1362.3	1286.8	1267.9	1145.5	982.2	900.5	850.1	749.4	673.8
137.5°	1287.2	1348.9	1287.2	1225.4	1210.0	1106.4	968.3	899.3	855.4	767.5	701.7
140°	1235.6	1293.3	1235.6	1177.8	1163.4	1073.9	954.7	895.1	856.3	778.7	720.5
142.5°	1192.9	1242.5	1192.9	1143.2	1130.8	1052.2	947.5	895.1	859.3	787.9	734.3
145°	1128.9	1166.5	1128.9	1091.2	1081.8	1017.5	931.9	889.1	859.4	800.0	755.4
147.5°	1079.7	1110.9	1079.7	1048.5	1040.7	990.1	922.8	889.1	865.3	817.7	782.1
150°	1048.7	1073.9	1048.7	1023.5	1017.2	974.4	917.5	889.1	868.3	826.9	795.9
152.5°	1022.3	1041.3	1022.3	1003.2	998.5	962.0	913.4	889.1	870.4	833.0	805.0
155°	991.9	1004.5	991.9	979.3	976.1	947.1	908.4	889.1	874.8	846.3	825.0
157.5°	967.7	976.7	967.7	958.9	956.7	934.1	904.1	889.1	879.3	859.6	844.9
160°	953.4	958.5	953.4	948.3	947.0	927.7	901.9	889.1	881.3	865.7	854.0
162.5°	944.0	948.8	944.0	939.2	938.0	921.7	899.9	889.1	883.4	872.1	863.7
165°	930.4	935.6	930.4	925.3	924.0	912.4	896.8	889.1	886.5	881.4	877.5
167.5°	920.7	922.9	920.7	918.6	918.0	910.4	900.2	895.1	892.9	888.6	885.4
170°	918.0	918.0	918.0	918.0	918.0	910.4	900.2	895.1	895.0	894.7	894.5
172.5°	910.9	909.0	910.9	912.7	913.2	907.2	899.1	895.1	895.1	895.1	895.1
175°	906.6	906.6	906.6	906.6	906.6	902.7	897.6	895.1	896.2	898.7	900.5
177.5°	902.6	900.5	902.6	904.8	905.3	902.3	898.4	896.3	897.3	899.1	900.5
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



TEST NUMBER: P936098

CATALOG NUMBER: SQ4-FA-150U-100D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1372.5	1364.7	1364.7	1351.9	1346.8	1343.0	1336.6	1317.5	1312.3	1307.2	1314.8
5°	1384.0	1369.9	1359.7	1336.6	1317.5	1309.7	1285.4	1239.4	1208.5	1185.6	1172.8
7.5°	1386.5	1368.6	1349.4	1313.6	1267.5	1247.0	1172.8	1088.3	1065.2	1044.7	1031.9
10°	1384.0	1363.5	1336.6	1282.9	1174.0	1138.2	1063.9	1008.8	994.8	990.9	994.8
12.5°	1375.0	1355.8	1318.7	1229.1	1076.8	1052.4	1008.8	976.8	974.3	980.7	1015.2
15°	1359.7	1341.8	1298.2	1157.4	1023.0	1005.0	974.3	962.8	976.8	1021.6	1125.4
17.5°	1344.3	1323.8	1270.1	1086.9	982.0	969.2	947.4	970.5	1049.8	1110.0	1144.6
20°	1323.8	1299.5	1238.0	1035.8	952.5	941.0	930.7	1034.5	1094.7	1116.4	1135.6
22.5°	1299.5	1273.8	1194.5	999.9	921.8	912.8	919.2	1070.4	1094.7	1110.0	1126.7
25°	1267.5	1245.7	1143.3	971.7	897.5	887.2	911.5	1066.5	1080.5	1084.4	1117.6
27.5°	1238.0	1209.9	1089.5	946.1	868.0	864.2	917.9	1049.8	1060.1	1063.9	1099.7
30°	1202.1	1159.9	1029.4	919.2	837.3	836.1	919.2	1029.4	1026.8	1037.0	1072.9
32.5°	1165.0	1085.7	961.4	886.0	807.9	806.6	910.3	998.7	996.0	1010.2	1037.0
35°	1130.5	1028.1	869.3	847.6	770.7	772.0	888.5	962.8	964.1	976.8	993.5
37.5°	1094.7	978.1	768.1	805.3	734.9	734.9	859.0	929.5	926.9	930.7	953.8
40°	1052.4	900.0	678.6	750.2	701.6	697.8	823.3	893.6	884.7	883.4	915.4
42.5°	1007.6	814.3	612.0	677.2	663.2	658.0	779.7	850.1	833.4	837.3	878.3
45°	958.9	791.2	560.8	572.3	623.5	619.7	732.3	800.2	788.7	798.9	841.2
47.5°	910.3	745.2	544.1	475.0	581.2	579.9	679.9	751.6	745.2	755.3	800.2
50°	843.7	693.9	542.8	407.2	533.9	539.0	617.1	704.2	704.2	713.1	760.5
52.5°	758.0	631.2	492.9	368.7	478.8	494.2	562.0	663.2	665.7	674.7	717.0
55°	679.9	565.9	457.1	339.2	413.6	446.8	508.2	620.9	626.1	635.0	673.5
57.5°	608.1	471.1	449.4	304.8	353.4	385.4	460.9	579.9	582.6	590.2	627.3
60°	531.3	340.5	412.2	267.5	300.9	325.2	417.3	531.3	540.3	545.4	577.4
62.5°	444.3	247.1	373.8	242.0	275.3	280.4	381.5	485.2	496.7	500.6	519.8
65°	316.2	207.4	317.5	220.3	248.4	249.6	343.1	437.9	448.1	454.5	468.6
67.5°	213.8	169.0	242.0	199.7	227.9	229.2	306.0	382.8	396.9	402.0	411.0
70°	148.5	112.7	179.3	178.0	204.8	207.4	266.3	332.9	345.6	349.5	354.7
72.5°	108.8	90.9	148.5	160.1	180.5	183.0	225.3	276.6	289.3	293.2	295.7
75°	83.2	96.0	120.3	139.5	153.6	154.9	184.4	225.3	234.3	236.8	238.1
77.5°	66.6	89.6	88.4	112.7	125.5	122.9	144.7	174.1	181.8	181.8	181.8
80°	49.9	70.4	66.6	80.6	92.2	89.6	103.7	124.2	126.7	129.3	128.0
82.5°	37.1	44.8	44.8	51.2	61.4	58.9	69.1	80.6	80.6	80.6	83.2
85°	23.1	25.6	20.4	26.8	34.6	33.3	38.4	43.5	44.8	44.8	42.2
87.5°	14.1	11.5	6.4	10.3	15.4	15.4	17.9	19.2	17.9	17.9	17.9
90°	15.7	10.9	6.0	10.9	15.7	17.0	26.6	39.5	45.9	40.8	30.6
92.5°	106.4	65.2	24.1	65.2	106.4	116.7	164.0	227.0	258.6	226.6	162.8
95°	208.4	133.2	58.0	133.2	208.4	227.2	403.5	638.6	756.1	674.7	511.9
97.5°	233.0	166.7	100.3	166.7	233.0	249.6	543.5	935.5	1131.4	1080.0	977.0
100°	253.3	193.1	132.9	193.1	253.3	268.3	594.5	1029.4	1246.8	1250.6	1258.1
102.5°	273.1	217.0	160.8	217.0	273.1	287.1	617.9	1058.9	1279.5	1345.0	1476.1
105°	303.0	255.5	207.9	255.5	303.0	314.9	635.2	1062.2	1275.8	1422.7	1716.6
107.5°	345.0	300.6	256.3	300.6	345.0	356.0	638.5	1015.0	1203.3	1408.2	1818.1
110°	369.0	328.9	288.9	328.9	369.0	379.0	633.6	973.1	1142.8	1372.0	1830.2



TEST NUMBER: P936098

CATALOG NUMBER: SQ4-FA-150U-100D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	397.3	359.1	320.9	359.1	397.3	406.8	633.8	936.5	1087.9	1322.4	1791.4
115°	439.6	404.5	369.3	404.5	439.6	448.5	639.6	894.6	1022.0	1247.9	1699.7
117.5°	481.0	449.0	417.1	449.0	481.0	489.0	651.6	868.3	976.7	1180.5	1588.3
120°	504.9	474.9	444.8	474.9	504.9	512.5	661.1	859.4	958.5	1144.8	1517.4
122.5°	532.8	502.3	472.0	502.3	532.8	540.3	675.1	854.9	944.7	1112.4	1447.9
125°	569.1	541.4	513.8	541.4	569.1	576.0	693.8	851.0	929.6	1072.0	1357.0
127.5°	603.4	575.5	547.6	575.5	603.4	610.4	712.5	848.7	916.9	1039.3	1283.9
130°	625.8	595.7	565.7	595.7	625.8	633.3	726.3	850.1	912.0	1020.9	1238.8
132.5°	644.6	614.5	584.4	614.5	644.6	652.1	737.3	851.0	907.8	1005.2	1200.3
135°	667.0	639.6	612.2	639.6	667.0	673.8	749.4	850.1	900.5	982.2	1145.5
137.5°	694.9	667.7	640.6	667.7	694.9	701.7	767.5	855.4	899.3	968.3	1106.4
140°	714.2	689.2	664.2	689.2	714.2	720.5	778.7	856.3	895.1	954.7	1073.9
142.5°	728.5	705.4	682.4	705.4	728.5	734.3	787.9	859.3	895.1	947.5	1052.2
145°	750.4	730.3	710.2	730.3	750.4	755.4	800.0	859.4	889.1	931.9	1017.5
147.5°	777.1	757.6	737.9	757.6	777.1	782.1	817.7	865.3	889.1	922.8	990.1
150°	791.5	773.8	756.1	773.8	791.5	795.9	826.9	868.3	889.1	917.5	974.4
152.5°	801.7	788.3	774.8	788.3	801.7	805.0	833.0	870.4	889.1	913.4	962.0
155°	822.5	812.6	802.6	812.6	822.5	825.0	846.3	874.8	889.1	908.4	947.1
157.5°	842.4	832.9	823.2	832.9	842.4	844.9	859.6	879.3	889.1	904.1	934.1
160°	852.1	844.6	837.0	844.6	852.1	854.0	865.7	881.3	889.1	901.9	927.7
162.5°	862.2	856.6	851.0	856.6	862.2	863.7	872.1	883.4	889.1	899.9	921.7
165°	876.3	871.1	866.1	871.1	876.3	877.5	881.4	886.5	889.1	896.8	912.4
167.5°	884.8	882.4	879.9	882.4	884.8	885.4	888.6	892.9	895.1	900.2	910.4
170°	893.9	891.5	889.1	891.5	893.9	894.5	894.7	895.0	895.1	900.2	910.4
172.5°	895.0	894.4	893.9	894.4	895.0	895.1	895.1	895.1	895.1	899.1	907.2
175°	900.5	900.5	900.5	900.5	900.5	900.5	898.7	896.2	895.1	897.6	902.7
177.5°	900.5	900.5	900.5	900.5	900.5	900.5	899.1	897.3	896.3	898.4	902.3
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



TEST NUMBER: P936098
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1305.9	1302.0	1307.2	1293.0	1307.2	1302.0	1305.9	1314.8	1307.2	1312.3	1317.5
5°	1145.8	1139.4	1119.0	1102.3	1119.0	1139.4	1145.8	1172.8	1185.6	1208.5	1239.4
7.5°	1024.2	1019.1	1014.0	1003.7	1014.0	1019.1	1024.2	1031.9	1044.7	1065.2	1088.3
10°	997.3	998.7	1006.3	1005.0	1006.3	998.7	997.3	994.8	990.9	994.8	1008.8
12.5°	1066.5	1078.0	1120.3	1117.6	1120.3	1078.0	1066.5	1015.2	980.7	974.3	976.8
15°	1145.8	1149.7	1158.6	1159.9	1158.6	1149.7	1145.8	1125.4	1021.6	976.8	962.8
17.5°	1153.5	1154.9	1161.2	1161.2	1161.2	1154.9	1153.5	1144.6	1110.0	1049.8	970.5
20°	1147.1	1149.7	1162.5	1165.0	1162.5	1149.7	1147.1	1135.6	1116.4	1094.7	1034.5
22.5°	1144.6	1149.7	1159.9	1158.6	1159.9	1149.7	1144.6	1126.7	1110.0	1094.7	1070.4
25°	1131.8	1131.8	1133.1	1134.3	1133.1	1131.8	1131.8	1117.6	1084.4	1080.5	1066.5
27.5°	1104.9	1107.5	1115.1	1113.9	1115.1	1107.5	1104.9	1099.7	1063.9	1060.1	1049.8
30°	1080.5	1078.0	1071.6	1066.5	1071.6	1078.0	1080.5	1072.9	1037.0	1026.8	1029.4
32.5°	1039.5	1033.1	1026.8	1023.0	1026.8	1033.1	1039.5	1037.0	1010.2	996.0	998.7
35°	990.9	992.3	990.9	987.1	990.9	992.3	990.9	993.5	976.8	964.1	962.8
37.5°	956.4	958.9	957.7	952.5	957.7	958.9	956.4	953.8	930.7	926.9	929.5
40°	920.6	921.8	920.6	916.7	920.6	921.8	920.6	915.4	883.4	884.7	893.6
42.5°	886.0	884.7	880.8	878.3	880.8	884.7	886.0	878.3	837.3	833.4	850.1
45°	846.2	847.6	839.8	836.1	839.8	847.6	846.2	841.2	798.9	788.7	800.2
47.5°	806.6	806.6	800.2	796.3	800.2	806.6	806.6	800.2	755.3	745.2	751.6
50°	764.3	763.1	754.1	752.8	754.1	763.1	764.3	760.5	713.1	704.2	704.2
52.5°	715.7	715.7	717.0	719.5	717.0	715.7	715.7	717.0	674.7	665.7	663.2
55°	673.5	674.7	683.6	686.2	683.6	674.7	673.5	673.5	635.0	626.1	620.9
57.5°	629.8	629.8	636.3	636.3	636.3	629.8	629.8	627.3	590.2	582.6	579.9
60°	579.9	582.6	587.6	586.3	587.6	582.6	579.9	577.4	545.4	540.3	531.3
62.5°	527.4	530.0	531.3	528.8	531.3	530.0	527.4	519.8	500.6	496.7	485.2
65°	472.4	475.0	476.3	473.7	476.3	475.0	472.4	468.6	454.5	448.1	437.9
67.5°	416.1	414.8	413.6	418.6	413.6	414.8	416.1	411.0	402.0	396.9	382.8
70°	358.4	358.4	357.2	359.8	357.2	358.4	358.4	354.7	349.5	345.6	332.9
72.5°	297.0	295.7	300.9	297.0	300.9	295.7	297.0	295.7	293.2	289.3	276.6
75°	236.8	239.4	236.8	240.7	236.8	239.4	236.8	238.1	236.8	234.3	225.3
77.5°	180.5	183.0	180.5	180.5	180.5	183.0	180.5	181.8	181.8	181.8	174.1
80°	128.0	126.7	126.7	125.5	126.7	126.7	128.0	128.0	129.3	126.7	124.2
82.5°	82.0	80.6	80.6	83.2	80.6	80.6	82.0	83.2	80.6	80.6	80.6
85°	44.8	46.1	43.5	43.5	43.5	46.1	44.8	42.2	44.8	44.8	43.5
87.5°	16.7	15.4	15.4	15.4	15.4	15.4	16.7	17.9	17.9	17.9	19.2
90°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	30.6	40.8	45.9	39.5
92.5°	114.8	110.3	92.0	73.7	92.0	110.3	114.8	162.8	226.6	258.6	227.0
95°	389.8	376.0	320.6	265.3	320.6	376.0	389.8	511.9	674.7	756.1	638.6
97.5°	899.9	873.6	768.3	663.0	768.3	873.6	899.9	977.0	1080.0	1131.4	935.5
100°	1263.8	1232.4	1107.0	981.5	1107.0	1232.4	1263.8	1258.1	1250.6	1246.8	1029.4
102.5°	1574.4	1547.6	1440.1	1332.7	1440.1	1547.6	1574.4	1476.1	1345.0	1279.5	1058.9
105°	1937.0	1922.6	1864.8	1807.1	1864.8	1922.6	1937.0	1716.6	1422.7	1275.8	1062.2
107.5°	2125.6	2129.1	2143.0	2157.0	2143.0	2129.1	2125.6	1818.1	1408.2	1203.3	1015.0
110°	2174.0	2189.0	2249.1	2309.3	2249.1	2189.0	2174.0	1830.2	1372.0	1142.8	973.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2143.1	2166.2	2258.6	2351.0	2258.6	2166.2	2143.1	1791.4	1322.4	1087.9	936.5
115°	2038.6	2070.7	2198.8	2326.9	2198.8	2070.7	2038.6	1699.7	1247.9	1022.0	894.6
117.5°	1894.1	1929.7	2071.7	2213.8	2071.7	1929.7	1894.1	1588.3	1180.5	976.7	868.3
120°	1796.8	1831.3	1969.4	2107.5	1969.4	1831.3	1796.8	1517.4	1144.8	958.5	859.4
122.5°	1699.5	1733.5	1869.8	2005.9	1869.8	1733.5	1699.5	1447.9	1112.4	944.7	854.9
125°	1570.7	1602.1	1727.5	1853.0	1727.5	1602.1	1570.7	1357.0	1072.0	929.6	851.0
127.5°	1467.5	1493.9	1599.7	1705.5	1599.7	1493.9	1467.5	1283.9	1039.3	916.9	848.7
130°	1402.1	1426.6	1524.3	1622.1	1524.3	1426.6	1402.1	1238.8	1020.9	912.0	850.1
132.5°	1346.5	1368.4	1455.9	1543.5	1455.9	1368.4	1346.5	1200.3	1005.2	907.8	851.0
135°	1267.9	1286.8	1362.3	1437.8	1362.3	1286.8	1267.9	1145.5	982.2	900.5	850.1
137.5°	1210.0	1225.4	1287.2	1348.9	1287.2	1225.4	1210.0	1106.4	968.3	899.3	855.4
140°	1163.4	1177.8	1235.6	1293.3	1235.6	1177.8	1163.4	1073.9	954.7	895.1	856.3
142.5°	1130.8	1143.2	1192.9	1242.5	1192.9	1143.2	1130.8	1052.2	947.5	895.1	859.3
145°	1081.8	1091.2	1128.9	1166.5	1128.9	1091.2	1081.8	1017.5	931.9	889.1	859.4
147.5°	1040.7	1048.5	1079.7	1110.9	1079.7	1048.5	1040.7	990.1	922.8	889.1	865.3
150°	1017.2	1023.5	1048.7	1073.9	1048.7	1023.5	1017.2	974.4	917.5	889.1	868.3
152.5°	998.5	1003.2	1022.3	1041.3	1022.3	1003.2	998.5	962.0	913.4	889.1	870.4
155°	976.1	979.3	991.9	1004.5	991.9	979.3	976.1	947.1	908.4	889.1	874.8
157.5°	956.7	958.9	967.7	976.7	967.7	958.9	956.7	934.1	904.1	889.1	879.3
160°	947.0	948.3	953.4	958.5	953.4	948.3	947.0	927.7	901.9	889.1	881.3
162.5°	938.0	939.2	944.0	948.8	944.0	939.2	938.0	921.7	899.9	889.1	883.4
165°	924.0	925.3	930.4	935.6	930.4	925.3	924.0	912.4	896.8	889.1	886.5
167.5°	918.0	918.6	920.7	922.9	920.7	918.6	918.0	910.4	900.2	895.1	892.9
170°	918.0	918.0	918.0	918.0	918.0	918.0	918.0	910.4	900.2	895.1	895.0
172.5°	913.2	912.7	910.9	909.0	910.9	912.7	913.2	907.2	899.1	895.1	895.1
175°	906.6	906.6	906.6	906.6	906.6	906.6	906.6	902.7	897.6	895.1	896.2
177.5°	905.3	904.8	902.6	900.5	902.6	904.8	905.3	902.3	898.4	896.3	897.3
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1336.6	1343.0	1346.8	1351.9	1364.7
5°	1285.4	1309.7	1317.5	1336.6	1359.7
7.5°	1172.8	1247.0	1267.5	1313.6	1349.4
10°	1063.9	1138.2	1174.0	1282.9	1336.6
12.5°	1008.8	1052.4	1076.8	1229.1	1318.7
15°	974.3	1005.0	1023.0	1157.4	1298.2
17.5°	947.4	969.2	982.0	1086.9	1270.1
20°	930.7	941.0	952.5	1035.8	1238.0
22.5°	919.2	912.8	921.8	999.9	1194.5
25°	911.5	887.2	897.5	971.7	1143.3
27.5°	917.9	864.2	868.0	946.1	1089.5
30°	919.2	836.1	837.3	919.2	1029.4
32.5°	910.3	806.6	807.9	886.0	961.4
35°	888.5	772.0	770.7	847.6	869.3
37.5°	859.0	734.9	734.9	805.3	768.1
40°	823.3	697.8	701.6	750.2	678.6
42.5°	779.7	658.0	663.2	677.2	612.0
45°	732.3	619.7	623.5	572.3	560.8
47.5°	679.9	579.9	581.2	475.0	544.1
50°	617.1	539.0	533.9	407.2	542.8
52.5°	562.0	494.2	478.8	368.7	492.9
55°	508.2	446.8	413.6	339.2	457.1
57.5°	460.9	385.4	353.4	304.8	449.4
60°	417.3	325.2	300.9	267.5	412.2
62.5°	381.5	280.4	275.3	242.0	373.8
65°	343.1	249.6	248.4	220.3	317.5
67.5°	306.0	229.2	227.9	199.7	242.0
70°	266.3	207.4	204.8	178.0	179.3
72.5°	225.3	183.0	180.5	160.1	148.5
75°	184.4	154.9	153.6	139.5	120.3
77.5°	144.7	122.9	125.5	112.7	88.4
80°	103.7	89.6	92.2	80.6	66.6
82.5°	69.1	58.9	61.4	51.2	44.8
85°	38.4	33.3	34.6	26.8	20.4
87.5°	17.9	15.4	15.4	10.3	6.4
90°	26.6	17.0	15.7	10.9	6.0
92.5°	164.0	116.7	106.4	65.2	24.1
95°	403.5	227.2	208.4	133.2	58.0
97.5°	543.5	249.6	233.0	166.7	100.3
100°	594.5	268.3	253.3	193.1	132.9
102.5°	617.9	287.1	273.1	217.0	160.8
105°	635.2	314.9	303.0	255.5	207.9
107.5°	638.5	356.0	345.0	300.6	256.3
110°	633.6	379.0	369.0	328.9	288.9



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CATALOG NUMBER: SQ4-FA-150U-100D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	633.8	406.8	397.3	359.1	320.9
115°	639.6	448.5	439.6	404.5	369.3
117.5°	651.6	489.0	481.0	449.0	417.1
120°	661.1	512.5	504.9	474.9	444.8
122.5°	675.1	540.3	532.8	502.3	472.0
125°	693.8	576.0	569.1	541.4	513.8
127.5°	712.5	610.4	603.4	575.5	547.6
130°	726.3	633.3	625.8	595.7	565.7
132.5°	737.3	652.1	644.6	614.5	584.4
135°	749.4	673.8	667.0	639.6	612.2
137.5°	767.5	701.7	694.9	667.7	640.6
140°	778.7	720.5	714.2	689.2	664.2
142.5°	787.9	734.3	728.5	705.4	682.4
145°	800.0	755.4	750.4	730.3	710.2
147.5°	817.7	782.1	777.1	757.6	737.9
150°	826.9	795.9	791.5	773.8	756.1
152.5°	833.0	805.0	801.7	788.3	774.8
155°	846.3	825.0	822.5	812.6	802.6
157.5°	859.6	844.9	842.4	832.9	823.2
160°	865.7	854.0	852.1	844.6	837.0
162.5°	872.1	863.7	862.2	856.6	851.0
165°	881.4	877.5	876.3	871.1	866.1
167.5°	888.6	885.4	884.8	882.4	879.9
170°	894.7	894.5	893.9	891.5	889.1
172.5°	895.1	895.1	895.0	894.4	893.9
175°	898.7	900.5	900.5	900.5	900.5
177.5°	899.1	900.5	900.5	900.5	900.5
180°	900.5	900.5	900.5	900.5	900.5



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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	12.31	13.07	13.37	14.13	15.57	15.11	15.87	16.17	16.93	18.37
	3H	12.78	13.46	13.85	14.53	15.99	16.44	17.12	17.50	18.19	19.64
	4H	12.97	13.61	14.05	14.68	16.15	16.87	17.52	17.95	18.59	20.05
	6H	13.08	13.68	14.17	14.75	16.23	17.14	17.74	18.23	18.81	20.29
	8H	13.08	13.64	14.17	14.74	16.21	17.21	17.77	18.30	18.87	20.33
	12H	13.05	13.58	14.14	14.67	16.16	17.24	17.78	18.34	18.86	20.35
4H	2H	13.32	13.97	14.41	15.04	16.50	15.51	16.15	16.59	17.22	18.69
	3H	14.34	14.88	15.43	15.98	17.45	16.99	17.53	18.09	18.63	20.11
	4H	14.61	15.11	15.71	16.19	17.69	17.51	18.00	18.61	19.09	20.59
	6H	14.73	15.16	15.84	16.27	17.76	17.86	18.29	18.97	19.40	20.89
	8H	14.74	15.13	15.84	16.24	17.74	17.96	18.36	19.07	19.46	20.97
	12H	14.70	15.06	15.82	16.17	17.68	18.01	18.37	19.13	19.48	21.00
8H	4H	15.05	15.45	16.16	16.55	18.06	17.63	18.02	18.73	19.13	20.63
	6H	15.31	15.64	16.44	16.78	18.29	18.05	18.38	19.18	19.52	21.03
	8H	15.35	15.64	16.49	16.76	18.29	18.20	18.48	19.33	19.61	21.13
	12H	15.33	15.58	16.47	16.71	18.27	18.29	18.54	19.42	19.66	21.22
12H	4H	15.05	15.41	16.18	16.53	18.04	17.59	17.95	18.71	19.06	20.57
	6H	15.37	15.66	16.50	16.78	18.31	18.05	18.33	19.18	19.46	20.99
	8H	15.43	15.68	16.57	16.81	18.37	18.20	18.45	19.34	19.58	21.14