

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: P935298

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935298
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-100D-B35-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

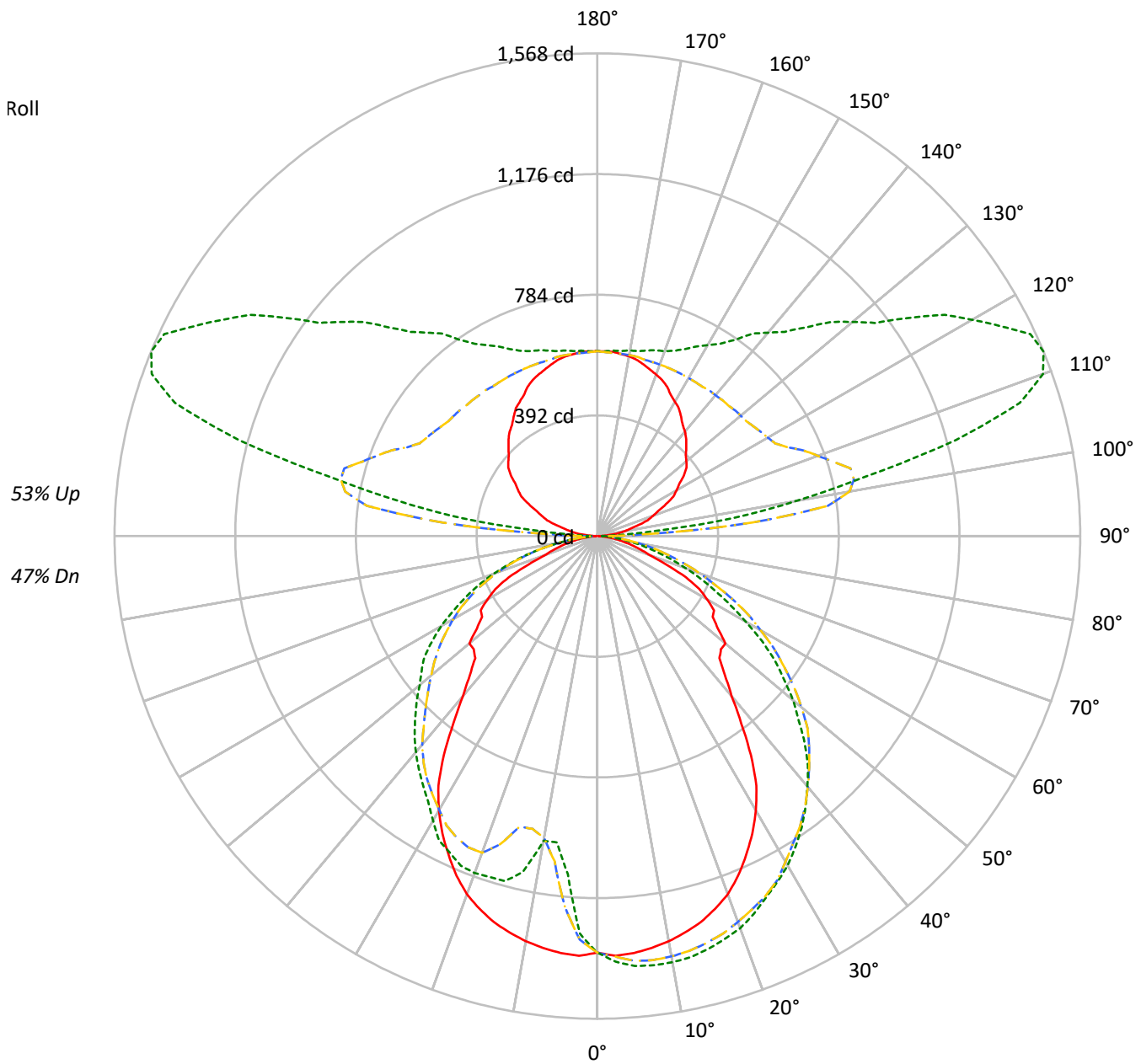
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7404.1 lumens
Efficiency: N/A
Efficacy: 127.7 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: General Diffuse

Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P935298
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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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

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	1.6
10°-20°	346.8	4.7
20°-30°	536.1	7.2
30°-40°	640.0	8.6
40°-50°	643.8	8.7
50°-60°	560.2	7.6
60°-70°	397.2	5.4
70°-80°	210.1	2.8
80°-90°	54.6	0.7
90°-100°	292.7	4.0
100°-110°	769.6	10.4
110°-120°	798.0	10.8
120°-130°	640.1	8.6
130°-140°	502.2	6.8
140°-150°	385.5	5.2
150°-160°	277.6	3.7
160°-170°	169.9	2.3
170°-180°	57.4	0.8
0°-30°	1005.1	13.6
0°-40°	1645.2	22.2
0°-60°	2849.1	38.5
0°-90°	3511.0	47.4
90°-120°	1860.4	25.1
90°-150°	3388.2	45.8
90°-180°	3893.0	52.6
0°-180°	7404.1	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°	4	15	4	15	4	4
95°	39	177	39	177	39	43
105°	139	1205	139	1205	139	147
115°	246	1552	246	1552	246	243
125°	343	1236	343	1236	343	304
135°	408	959	408	959	408	316
145°	474	778	474	778	474	297
155°	535	670	535	670	535	246
165°	578	624	578	624	578	163
175°	601	605	601	605	601	57
180°	601	601	601	601	601	



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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°	4.1	7.3	10.5	11.2	17.7	26.4	30.6	27.2	20.4	15.3	15.3
92.5°	16.1	43.5	70.9	77.8	109.4	151.5	172.5	151.2	108.5	76.6	73.5
95°	38.7	88.9	139.1	151.6	269.1	425.8	504.2	449.9	341.4	260.0	250.8
97.5°	66.9	111.1	155.4	166.5	362.5	623.8	754.5	720.2	651.6	600.1	582.6
100°	88.7	128.8	168.9	179.0	396.5	686.5	831.5	834.0	839.0	842.7	821.8
102.5°	107.2	144.7	182.1	191.5	412.1	706.2	853.3	897.0	984.4	1049.9	1032.0
105°	138.7	170.4	202.0	210.0	423.6	708.4	850.9	948.8	1144.8	1291.8	1282.2
107.5°	170.9	200.5	230.0	237.4	425.8	676.8	802.4	939.2	1212.5	1417.6	1419.9
110°	192.6	219.4	246.0	252.7	422.5	648.9	762.1	914.9	1220.6	1449.7	1459.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	214.1	239.4	264.8	271.2	422.7	624.5	725.5	881.9	1194.6	1429.2	1444.6
115°	246.2	269.7	293.1	299.0	426.6	596.6	681.6	832.3	1133.5	1359.5	1380.8
117.5°	278.1	299.4	320.7	326.1	434.5	579.1	651.4	787.3	1059.2	1263.2	1286.8
120°	296.6	316.7	336.7	341.8	440.9	573.2	639.2	763.5	1011.9	1198.3	1221.3
122.5°	314.8	335.1	355.3	360.4	450.2	570.1	629.9	741.8	965.5	1133.3	1156.0
125°	342.6	361.0	379.5	384.1	462.7	567.4	619.9	714.9	904.9	1047.5	1068.4
127.5°	365.1	383.7	402.4	407.1	475.2	566.0	611.4	693.0	856.2	978.6	996.2
130°	377.2	397.3	417.3	422.4	484.3	567.0	608.2	680.9	826.2	935.1	951.4
132.5°	389.7	409.8	429.8	434.9	491.7	567.4	605.3	670.4	800.4	898.0	912.6
135°	408.3	426.6	444.9	449.4	499.8	567.0	600.6	655.0	763.9	845.5	858.1
137.5°	427.2	445.4	463.4	467.9	511.8	570.5	599.7	645.7	737.8	806.9	817.2
140°	442.9	459.6	476.3	480.4	519.3	571.0	596.9	636.6	716.2	775.9	785.5
142.5°	455.0	470.4	485.9	489.7	525.5	573.1	596.9	631.8	701.7	754.1	762.4
145°	473.6	487.0	500.4	503.8	533.5	573.2	592.9	621.5	678.6	721.4	727.7
147.5°	492.2	505.2	518.2	521.5	545.4	577.0	592.9	615.4	660.4	694.1	699.3
150°	504.2	516.0	527.8	530.8	551.6	579.2	592.9	611.9	649.8	678.3	682.5
152.5°	516.7	525.6	534.6	536.8	555.5	580.4	592.9	609.1	641.5	665.8	669.0
155°	535.3	541.9	548.6	550.2	564.4	583.4	592.9	605.8	631.6	650.9	653.0
157.5°	548.9	555.4	561.8	563.5	573.3	586.3	592.9	602.9	623.0	638.0	639.4
160°	558.2	563.3	568.2	569.5	577.3	587.7	592.9	601.6	618.7	631.6	632.5
162.5°	567.4	571.2	575.0	576.0	581.6	589.2	592.9	600.2	614.6	625.5	626.3
165°	577.5	580.9	584.3	585.2	587.8	591.2	592.9	598.2	608.5	616.3	617.2
167.5°	586.8	588.5	590.1	590.5	592.6	595.5	596.9	600.3	607.1	612.2	612.6
170°	592.9	594.5	596.1	596.5	596.6	596.8	596.9	600.3	607.1	612.2	612.2
172.5°	596.1	596.5	596.8	596.9	596.9	596.9	596.9	599.6	604.9	609.0	608.7
175°	600.6	600.6	600.6	600.6	599.3	597.7	596.9	598.6	602.0	604.6	604.6
177.5°	600.6	600.6	600.6	600.6	599.6	598.4	597.7	599.0	601.7	603.8	603.4
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



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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°	15.3	15.3	15.3	15.3	15.3	20.4	27.2	30.6	26.4	17.7	11.2
92.5°	61.3	49.1	61.3	73.5	76.6	108.5	151.2	172.5	151.5	109.4	77.8
95°	213.9	176.9	213.9	250.8	260.0	341.4	449.9	504.2	425.8	269.1	151.6
97.5°	512.3	442.2	512.3	582.6	600.1	651.6	720.2	754.5	623.8	362.5	166.5
100°	738.2	654.6	738.2	821.8	842.7	839.0	834.0	831.5	686.5	396.5	179.0
102.5°	960.4	888.8	960.4	1032.0	1049.9	984.4	897.0	853.3	706.2	412.1	191.5
105°	1243.6	1205.1	1243.6	1282.2	1291.8	1144.8	948.8	850.9	708.4	423.6	210.0
107.5°	1429.2	1438.5	1429.2	1419.9	1417.6	1212.5	939.2	802.4	676.8	425.8	237.4
110°	1499.9	1540.0	1499.9	1459.8	1449.7	1220.6	914.9	762.1	648.9	422.5	252.7



TEST NUMBER: P935298

CATALOG NUMBER: SQ4-FA-100U-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°	1506.2	1567.8	1506.2	1444.6	1429.2	1194.6	881.9	725.5	624.5	422.7	271.2
115°	1466.3	1551.8	1466.3	1380.8	1359.5	1133.5	832.3	681.6	596.6	426.6	299.0
117.5°	1381.6	1476.4	1381.6	1286.8	1263.2	1059.2	787.3	651.4	579.1	434.5	326.1
120°	1313.4	1405.4	1313.4	1221.3	1198.3	1011.9	763.5	639.2	573.2	440.9	341.8
122.5°	1246.9	1337.7	1246.9	1156.0	1133.3	965.5	741.8	629.9	570.1	450.2	360.4
125°	1152.0	1235.8	1152.0	1068.4	1047.5	904.9	714.9	619.9	567.4	462.7	384.1
127.5°	1066.9	1137.4	1066.9	996.2	978.6	856.2	693.0	611.4	566.0	475.2	407.1
130°	1016.6	1081.8	1016.6	951.4	935.1	826.2	680.9	608.2	567.0	484.3	422.4
132.5°	970.9	1029.4	970.9	912.6	898.0	800.4	670.4	605.3	567.4	491.7	434.9
135°	908.4	958.8	908.4	858.1	845.5	763.9	655.0	600.6	567.0	499.8	449.4
137.5°	858.4	899.6	858.4	817.2	806.9	737.8	645.7	599.7	570.5	511.8	467.9
140°	824.0	862.5	824.0	785.5	775.9	716.2	636.6	596.9	571.0	519.3	480.4
142.5°	795.5	828.7	795.5	762.4	754.1	701.7	631.8	596.9	573.1	525.5	489.7
145°	752.8	777.9	752.8	727.7	721.4	678.6	621.5	592.9	573.2	533.5	503.8
147.5°	720.1	740.8	720.1	699.3	694.1	660.4	615.4	592.9	577.0	545.4	521.5
150°	699.3	716.2	699.3	682.5	678.3	649.8	611.9	592.9	579.2	551.6	530.8
152.5°	681.7	694.5	681.7	669.0	665.8	641.5	609.1	592.9	580.4	555.5	536.8
155°	661.4	669.9	661.4	653.0	650.9	631.6	605.8	592.9	583.4	564.4	550.2
157.5°	645.5	651.4	645.5	639.4	638.0	623.0	602.9	592.9	586.3	573.3	563.5
160°	635.9	639.2	635.9	632.5	631.6	618.7	601.6	592.9	587.7	577.3	569.5
162.5°	629.6	632.8	629.6	626.3	625.5	614.6	600.2	592.9	589.2	581.6	576.0
165°	620.5	623.9	620.5	617.2	616.3	608.5	598.2	592.9	591.2	587.8	585.2
167.5°	614.0	615.4	614.0	612.6	612.2	607.1	600.3	596.9	595.5	592.6	590.5
170°	612.2	612.2	612.2	612.2	612.2	607.1	600.3	596.9	596.8	596.6	596.5
172.5°	607.5	606.2	607.5	608.7	609.0	604.9	599.6	596.9	596.9	596.9	596.9
175°	604.6	604.6	604.6	604.6	604.6	602.0	598.6	596.9	597.7	599.3	600.6
177.5°	602.0	600.6	602.0	603.4	603.8	601.7	599.0	597.7	598.4	599.6	600.6
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935298
 CATALOG NUMBER: SQ4-FA-100U-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°	10.5	7.3	4.1	7.3	10.5	11.2	17.7	26.4	30.6	27.2	20.4
92.5°	70.9	43.5	16.1	43.5	70.9	77.8	109.4	151.5	172.5	151.2	108.5
95°	139.1	88.9	38.7	88.9	139.1	151.6	269.1	425.8	504.2	449.9	341.4
97.5°	155.4	111.1	66.9	111.1	155.4	166.5	362.5	623.8	754.5	720.2	651.6
100°	168.9	128.8	88.7	128.8	168.9	179.0	396.5	686.5	831.5	834.0	839.0
102.5°	182.1	144.7	107.2	144.7	182.1	191.5	412.1	706.2	853.3	897.0	984.4
105°	202.0	170.4	138.7	170.4	202.0	210.0	423.6	708.4	850.9	948.8	1144.8
107.5°	230.0	200.5	170.9	200.5	230.0	237.4	425.8	676.8	802.4	939.2	1212.5
110°	246.0	219.4	192.6	219.4	246.0	252.7	422.5	648.9	762.1	914.9	1220.6



TEST NUMBER: P935298

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

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	264.8	239.4	214.1	239.4	264.8	271.2	422.7	624.5	725.5	881.9	1194.6
115°	293.1	269.7	246.2	269.7	293.1	299.0	426.6	596.6	681.6	832.3	1133.5
117.5°	320.7	299.4	278.1	299.4	320.7	326.1	434.5	579.1	651.4	787.3	1059.2
120°	336.7	316.7	296.6	316.7	336.7	341.8	440.9	573.2	639.2	763.5	1011.9
122.5°	355.3	335.1	314.8	335.1	355.3	360.4	450.2	570.1	629.9	741.8	965.5
125°	379.5	361.0	342.6	361.0	379.5	384.1	462.7	567.4	619.9	714.9	904.9
127.5°	402.4	383.7	365.1	383.7	402.4	407.1	475.2	566.0	611.4	693.0	856.2
130°	417.3	397.3	377.2	397.3	417.3	422.4	484.3	567.0	608.2	680.9	826.2
132.5°	429.8	409.8	389.7	409.8	429.8	434.9	491.7	567.4	605.3	670.4	800.4
135°	444.9	426.6	408.3	426.6	444.9	449.4	499.8	567.0	600.6	655.0	763.9
137.5°	463.4	445.4	427.2	445.4	463.4	467.9	511.8	570.5	599.7	645.7	737.8
140°	476.3	459.6	442.9	459.6	476.3	480.4	519.3	571.0	596.9	636.6	716.2
142.5°	485.9	470.4	455.0	470.4	485.9	489.7	525.5	573.1	596.9	631.8	701.7
145°	500.4	487.0	473.6	487.0	500.4	503.8	533.5	573.2	592.9	621.5	678.6
147.5°	518.2	505.2	492.2	505.2	518.2	521.5	545.4	577.0	592.9	615.4	660.4
150°	527.8	516.0	504.2	516.0	527.8	530.8	551.6	579.2	592.9	611.9	649.8
152.5°	534.6	525.6	516.7	525.6	534.6	536.8	555.5	580.4	592.9	609.1	641.5
155°	548.6	541.9	535.3	541.9	548.6	550.2	564.4	583.4	592.9	605.8	631.6
157.5°	561.8	555.4	548.9	555.4	561.8	563.5	573.3	586.3	592.9	602.9	623.0
160°	568.2	563.3	558.2	563.3	568.2	569.5	577.3	587.7	592.9	601.6	618.7
162.5°	575.0	571.2	567.4	571.2	575.0	576.0	581.6	589.2	592.9	600.2	614.6
165°	584.3	580.9	577.5	580.9	584.3	585.2	587.8	591.2	592.9	598.2	608.5
167.5°	590.1	588.5	586.8	588.5	590.1	590.5	592.6	595.5	596.9	600.3	607.1
170°	596.1	594.5	592.9	594.5	596.1	596.5	596.6	596.8	596.9	600.3	607.1
172.5°	596.8	596.5	596.1	596.5	596.8	596.9	596.9	596.9	596.9	599.6	604.9
175°	600.6	600.6	600.6	600.6	600.6	600.6	599.3	597.7	596.9	598.6	602.0
177.5°	600.6	600.6	600.6	600.6	600.6	600.6	599.6	598.4	597.7	599.0	601.7
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935298
 CATALOG NUMBER: SQ4-FA-100U-100D-B35-1D-UNV-STD-W-4

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°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	20.4	27.2	30.6	26.4
92.5°	76.6	73.5	61.3	49.1	61.3	73.5	76.6	108.5	151.2	172.5	151.5
95°	260.0	250.8	213.9	176.9	213.9	250.8	260.0	341.4	449.9	504.2	425.8
97.5°	600.1	582.6	512.3	442.2	512.3	582.6	600.1	651.6	720.2	754.5	623.8
100°	842.7	821.8	738.2	654.6	738.2	821.8	842.7	839.0	834.0	831.5	686.5
102.5°	1049.9	1032.0	960.4	888.8	960.4	1032.0	1049.9	984.4	897.0	853.3	706.2
105°	1291.8	1282.2	1243.6	1205.1	1243.6	1282.2	1291.8	1144.8	948.8	850.9	708.4
107.5°	1417.6	1419.9	1429.2	1438.5	1429.2	1419.9	1417.6	1212.5	939.2	802.4	676.8
110°	1449.7	1459.8	1499.9	1540.0	1499.9	1459.8	1449.7	1220.6	914.9	762.1	648.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1429.2	1444.6	1506.2	1567.8	1506.2	1444.6	1429.2	1194.6	881.9	725.5	624.5
115°	1359.5	1380.8	1466.3	1551.8	1466.3	1380.8	1359.5	1133.5	832.3	681.6	596.6
117.5°	1263.2	1286.8	1381.6	1476.4	1381.6	1286.8	1263.2	1059.2	787.3	651.4	579.1
120°	1198.3	1221.3	1313.4	1405.4	1313.4	1221.3	1198.3	1011.9	763.5	639.2	573.2
122.5°	1133.3	1156.0	1246.9	1337.7	1246.9	1156.0	1133.3	965.5	741.8	629.9	570.1
125°	1047.5	1068.4	1152.0	1235.8	1152.0	1068.4	1047.5	904.9	714.9	619.9	567.4
127.5°	978.6	996.2	1066.9	1137.4	1066.9	996.2	978.6	856.2	693.0	611.4	566.0
130°	935.1	951.4	1016.6	1081.8	1016.6	951.4	935.1	826.2	680.9	608.2	567.0
132.5°	898.0	912.6	970.9	1029.4	970.9	912.6	898.0	800.4	670.4	605.3	567.4
135°	845.5	858.1	908.4	958.8	908.4	858.1	845.5	763.9	655.0	600.6	567.0
137.5°	806.9	817.2	858.4	899.6	858.4	817.2	806.9	737.8	645.7	599.7	570.5
140°	775.9	785.5	824.0	862.5	824.0	785.5	775.9	716.2	636.6	596.9	571.0
142.5°	754.1	762.4	795.5	828.7	795.5	762.4	754.1	701.7	631.8	596.9	573.1
145°	721.4	727.7	752.8	777.9	752.8	727.7	721.4	678.6	621.5	592.9	573.2
147.5°	694.1	699.3	720.1	740.8	720.1	699.3	694.1	660.4	615.4	592.9	577.0
150°	678.3	682.5	699.3	716.2	699.3	682.5	678.3	649.8	611.9	592.9	579.2
152.5°	665.8	669.0	681.7	694.5	681.7	669.0	665.8	641.5	609.1	592.9	580.4
155°	650.9	653.0	661.4	669.9	661.4	653.0	650.9	631.6	605.8	592.9	583.4
157.5°	638.0	639.4	645.5	651.4	645.5	639.4	638.0	623.0	602.9	592.9	586.3
160°	631.6	632.5	635.9	639.2	635.9	632.5	631.6	618.7	601.6	592.9	587.7
162.5°	625.5	626.3	629.6	632.8	629.6	626.3	625.5	614.6	600.2	592.9	589.2
165°	616.3	617.2	620.5	623.9	620.5	617.2	616.3	608.5	598.2	592.9	591.2
167.5°	612.2	612.6	614.0	615.4	614.0	612.6	612.2	607.1	600.3	596.9	595.5
170°	612.2	612.2	612.2	612.2	612.2	612.2	612.2	607.1	600.3	596.9	596.8
172.5°	609.0	608.7	607.5	606.2	607.5	608.7	609.0	604.9	599.6	596.9	596.9
175°	604.6	604.6	604.6	604.6	604.6	604.6	604.6	602.0	598.6	596.9	597.7
177.5°	603.8	603.4	602.0	600.6	602.0	603.4	603.8	601.7	599.0	597.7	598.4
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



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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°	17.7	11.2	10.5	7.3	4.1
92.5°	109.4	77.8	70.9	43.5	16.1
95°	269.1	151.6	139.1	88.9	38.7
97.5°	362.5	166.5	155.4	111.1	66.9
100°	396.5	179.0	168.9	128.8	88.7
102.5°	412.1	191.5	182.1	144.7	107.2
105°	423.6	210.0	202.0	170.4	138.7
107.5°	425.8	237.4	230.0	200.5	170.9
110°	422.5	252.7	246.0	219.4	192.6



TEST NUMBER: P935298

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

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	422.7	271.2	264.8	239.4	214.1
115°	426.6	299.0	293.1	269.7	246.2
117.5°	434.5	326.1	320.7	299.4	278.1
120°	440.9	341.8	336.7	316.7	296.6
122.5°	450.2	360.4	355.3	335.1	314.8
125°	462.7	384.1	379.5	361.0	342.6
127.5°	475.2	407.1	402.4	383.7	365.1
130°	484.3	422.4	417.3	397.3	377.2
132.5°	491.7	434.9	429.8	409.8	389.7
135°	499.8	449.4	444.9	426.6	408.3
137.5°	511.8	467.9	463.4	445.4	427.2
140°	519.3	480.4	476.3	459.6	442.9
142.5°	525.5	489.7	485.9	470.4	455.0
145°	533.5	503.8	500.4	487.0	473.6
147.5°	545.4	521.5	518.2	505.2	492.2
150°	551.6	530.8	527.8	516.0	504.2
152.5°	555.5	536.8	534.6	525.6	516.7
155°	564.4	550.2	548.6	541.9	535.3
157.5°	573.3	563.5	561.8	555.4	548.9
160°	577.3	569.5	568.2	563.3	558.2
162.5°	581.6	576.0	575.0	571.2	567.4
165°	587.8	585.2	584.3	580.9	577.5
167.5°	592.6	590.5	590.1	588.5	586.8
170°	596.6	596.5	596.1	594.5	592.9
172.5°	596.9	596.9	596.8	596.5	596.1
175°	599.3	600.6	600.6	600.6	600.6
177.5°	599.6	600.6	600.6	600.6	600.6
180°	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935298
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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	13.34	14.18	14.32	15.17	16.48	16.14	16.98	17.12	17.97	19.28
	3H	13.82	14.57	14.81	15.57	16.90	17.47	18.22	18.46	19.23	20.55
	4H	14.01	14.72	15.01	15.72	17.06	17.91	18.62	18.91	19.63	20.96
	6H	14.12	14.78	15.14	15.79	17.14	18.19	18.84	19.20	19.85	21.20
	8H	14.13	14.75	15.15	15.77	17.12	18.26	18.88	19.27	19.90	21.25
	12H	14.10	14.69	15.12	15.71	17.08	18.29	18.88	19.31	19.90	21.27
4H	2H	14.36	15.07	15.37	16.08	17.42	16.55	17.26	17.56	18.26	19.60
	3H	15.39	15.98	16.41	17.01	18.36	18.04	18.63	19.06	19.67	21.02
	4H	15.66	16.21	16.69	17.23	18.60	18.56	19.10	19.59	20.13	21.50
	6H	15.79	16.25	16.82	17.30	18.67	18.92	19.38	19.95	20.43	21.80
	8H	15.79	16.23	16.83	17.27	18.66	19.02	19.45	20.06	20.50	21.88
	12H	15.76	16.15	16.81	17.21	18.60	19.07	19.46	20.13	20.52	21.91
8H	4H	16.11	16.55	17.15	17.59	18.97	18.68	19.12	19.72	20.16	21.55
	6H	16.37	16.73	17.43	17.81	19.20	19.11	19.47	20.17	20.56	21.94
	8H	16.41	16.73	17.48	17.80	19.20	19.26	19.58	20.33	20.64	22.05
	12H	16.40	16.67	17.47	17.74	19.18	19.35	19.63	20.42	20.69	22.14
12H	4H	16.11	16.51	17.17	17.56	18.95	18.65	19.04	19.70	20.10	21.49
	6H	16.43	16.75	17.50	17.81	19.22	19.11	19.43	20.18	20.49	21.90
	8H	16.49	16.77	17.57	17.84	19.28	19.26	19.54	20.34	20.61	22.05