

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: P934212

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934212
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-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

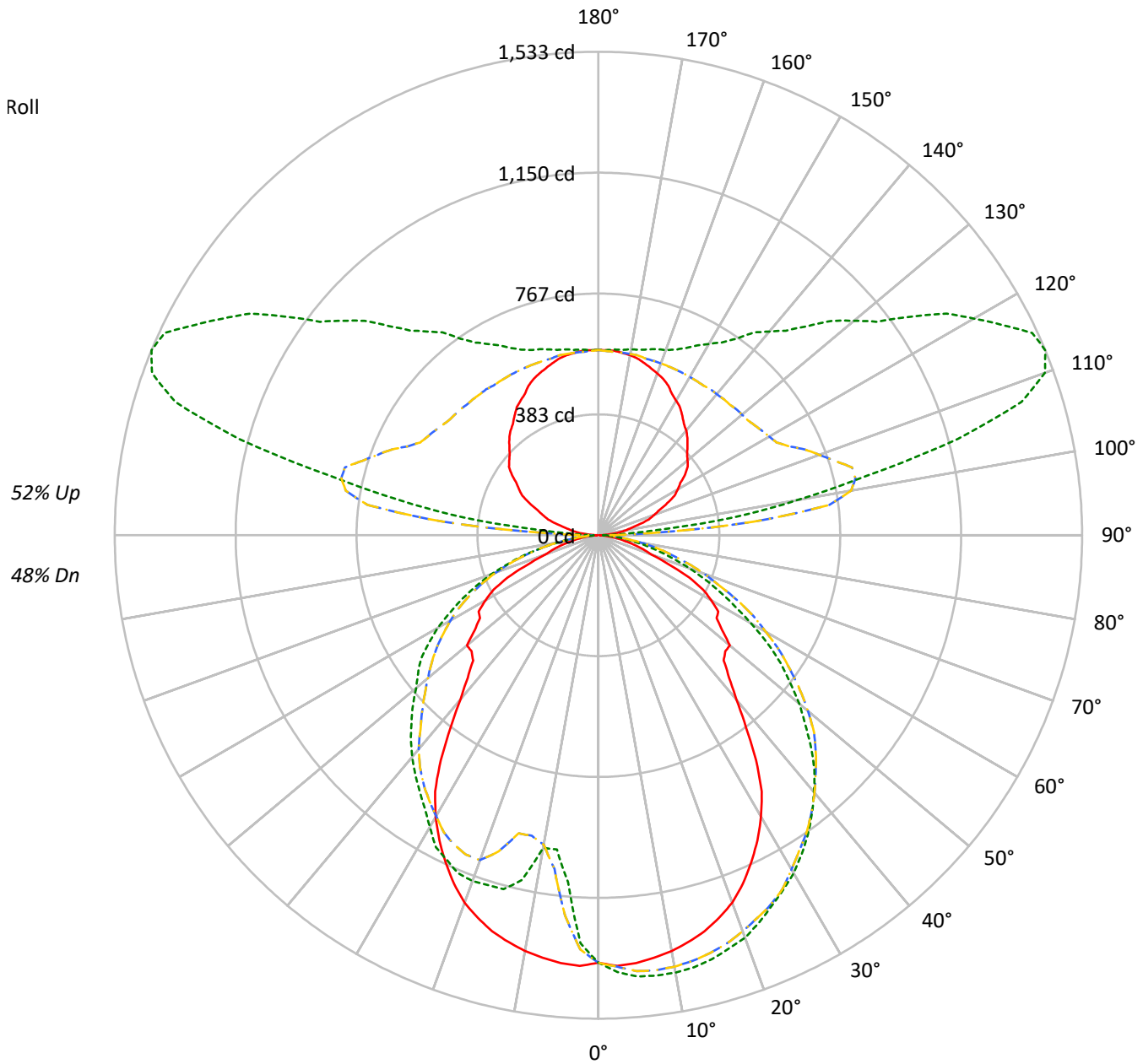
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7323.0 lumens
Efficiency: N/A
Efficacy: 128.9 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

TEST NUMBER: P934212
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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	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°	6289	6289	6289	6289
5°	6335	6348	6335	4992
10°	6293	6253	6293	4470
15°	6225	6118	6225	5108
20°	6094	5957	6094	5119
25°	5828	5723	5828	5010
30°	5484	5529	5484	4772
35°	4888	5283	4888	4510
40°	4073	4993	4073	4313
45°	3639	4655	3639	4086
50°	3867	4251	3867	3857
55°	3637	3816	3637	3725
60°	3750	3241	3750	3412
65°	3400	2679	3400	2995
70°	2354	2135	2354	2510
75°	2066	1578	2066	1890
80°	1662	1043	1662	1135
85°	960	553	960	470

MAXIMUM LUMINANCE 45°-90°:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	1.7
10°-20°	347.4	4.7
20°-30°	537.0	7.3
30°-40°	641.0	8.8
40°-50°	644.8	8.8
50°-60°	561.1	7.7
60°-70°	397.8	5.4
70°-80°	210.5	2.9
80°-90°	54.7	0.7
90°-100°	286.2	3.9
100°-110°	752.5	10.3
110°-120°	780.3	10.7
120°-130°	625.9	8.5
130°-140°	491.1	6.7
140°-150°	376.9	5.1
150°-160°	271.4	3.7
160°-170°	166.1	2.3
170°-180°	56.1	0.8
0°-30°	1006.7	13.7
0°-40°	1647.7	22.5
0°-60°	2853.6	39.0
0°-90°	3516.5	48.0
90°-120°	1819.0	24.8
90°-150°	3312.8	45.2
90°-180°	3806.0	52.0
0°-180°	7323.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1355	1355	1355	1355	1355	
5°	1362	1404	1362	1104	1362	129
15°	1300	1391	1300	1162	1300	366
25°	1145	1298	1145	1136	1145	526
35°	871	1158	871	989	871	539
45°	562	954	562	837	562	450
55°	458	704	458	687	458	421
65°	318	424	318	474	318	304
75°	121	201	121	241	121	127
85°	21	51	21	44	21	28
90°	4	15	4	15	4	4
95°	38	173	38	173	38	42
105°	136	1178	136	1178	136	144
115°	241	1517	241	1517	241	238
125°	335	1208	335	1208	335	297
135°	399	938	399	938	399	309
145°	463	761	463	761	463	290
155°	523	655	523	655	523	240
165°	565	610	565	610	565	159
175°	587	591	587	591	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°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1366.9	1366.9	1374.6	1377.2	1377.2	1373.3	1369.5	1373.3	1384.9	1388.7	1387.4
5°	1361.8	1372.1	1386.2	1388.7	1391.3	1390.0	1387.4	1390.0	1402.8	1405.4	1406.7
7.5°	1351.5	1370.8	1388.7	1392.6	1396.4	1392.6	1391.3	1393.8	1406.7	1409.2	1409.2
10°	1338.7	1365.6	1386.2	1388.7	1392.6	1388.7	1388.7	1393.8	1406.7	1409.2	1410.5
12.5°	1320.7	1357.9	1377.2	1379.7	1384.9	1383.6	1382.3	1387.4	1400.3	1402.8	1402.8
15°	1300.3	1343.8	1361.8	1364.3	1373.3	1370.8	1370.8	1375.9	1390.0	1393.8	1392.6
17.5°	1272.1	1325.9	1346.4	1350.3	1356.7	1355.4	1356.7	1361.8	1374.6	1377.2	1378.5
20°	1239.9	1301.5	1325.9	1329.7	1336.1	1336.1	1336.1	1342.5	1355.4	1360.5	1360.5
22.5°	1196.3	1275.9	1301.5	1304.1	1311.8	1311.8	1314.3	1323.3	1334.9	1336.1	1336.1
25°	1145.1	1247.7	1269.5	1277.1	1284.9	1288.7	1292.5	1297.7	1301.5	1300.3	1301.5
27.5°	1091.3	1211.7	1239.9	1245.1	1255.3	1259.2	1264.3	1265.6	1266.9	1270.7	1268.2
30°	1031.0	1161.7	1204.1	1209.2	1225.9	1228.5	1223.3	1225.9	1232.3	1234.9	1237.4
32.5°	963.0	1087.4	1166.9	1178.5	1193.9	1186.1	1184.9	1188.7	1198.9	1198.9	1201.5
35°	870.6	1029.7	1132.3	1142.5	1154.1	1145.1	1150.3	1151.5	1157.9	1161.7	1160.5
37.5°	769.4	979.7	1096.3	1104.1	1113.1	1101.5	1109.2	1113.1	1118.1	1115.6	1115.6
40°	679.6	901.4	1054.1	1059.2	1066.9	1057.9	1065.6	1068.1	1070.7	1068.1	1066.9
42.5°	612.9	815.6	1009.2	1015.6	1010.4	1016.9	1019.4	1024.5	1020.7	1015.6	1015.6
45°	561.6	792.4	960.4	968.1	960.4	970.7	974.5	974.5	963.0	960.4	959.2
47.5°	545.0	746.3	911.7	911.7	907.8	920.7	927.1	918.1	906.6	902.8	902.8
50°	543.7	695.0	845.0	839.9	857.8	873.2	866.8	857.8	848.8	834.8	834.8
52.5°	493.7	632.2	759.2	778.4	806.6	815.6	805.2	796.3	781.0	774.5	769.4
55°	457.7	566.8	680.9	719.4	748.8	760.4	741.2	732.2	709.1	705.2	702.7
57.5°	450.1	471.9	609.1	657.8	693.7	692.4	680.9	664.2	645.0	641.2	639.9
60°	412.9	341.1	532.1	589.9	627.0	623.2	612.9	597.5	579.6	577.0	574.5
62.5°	374.5	247.5	444.9	510.3	562.9	561.6	552.7	529.6	516.7	510.3	505.2
65°	318.0	207.7	316.7	424.5	500.1	502.7	483.4	466.7	452.7	444.9	443.7
67.5°	242.3	169.3	214.1	353.9	439.9	437.3	412.9	405.2	387.3	383.5	375.7
70°	179.5	112.8	148.8	287.3	380.9	374.5	355.2	346.3	329.5	320.5	315.5
72.5°	148.8	91.0	109.0	223.1	320.5	312.9	296.2	285.9	271.9	264.1	259.0
75°	120.6	96.2	83.4	165.4	260.3	255.2	239.8	229.5	218.0	207.7	209.0
77.5°	88.5	89.8	66.6	121.8	206.5	198.8	189.8	177.0	171.8	161.6	161.6
80°	66.6	70.6	50.0	83.4	148.8	148.8	141.0	132.1	123.1	118.0	118.0
82.5°	44.8	44.8	37.2	52.6	101.3	97.4	92.3	89.8	84.6	82.0	82.0
85°	20.6	25.6	23.0	32.0	55.2	57.7	57.7	55.2	53.8	51.3	52.6
87.5°	6.4	11.6	14.1	18.0	28.2	29.5	30.8	30.8	30.8	32.0	32.0
90°	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.6	20.0	15.0	15.0
92.5°	15.8	42.5	69.4	76.1	107.0	148.1	168.6	147.8	106.1	74.9	71.9
95°	37.9	86.9	135.9	148.2	263.1	416.3	493.0	440.0	333.8	254.2	245.2
97.5°	65.4	108.6	151.9	162.7	354.4	609.9	737.7	704.2	637.1	586.8	569.6
100°	86.7	125.9	165.1	174.9	387.7	671.2	813.0	815.5	820.3	824.0	803.5
102.5°	104.9	141.5	178.0	187.2	402.9	690.5	834.3	877.0	962.5	1026.6	1009.1
105°	135.6	166.5	197.6	205.3	414.2	692.7	831.9	927.7	1119.4	1263.1	1253.6
107.5°	167.1	196.0	224.9	232.1	416.2	661.8	784.6	918.2	1185.5	1386.0	1388.3
110°	188.3	214.4	240.6	247.1	413.2	634.5	745.2	894.6	1193.4	1417.5	1427.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	209.3	234.1	259.0	265.2	413.3	610.7	709.4	862.2	1168.0	1397.4	1412.5
115°	240.8	263.8	286.7	292.4	417.1	583.4	666.4	813.7	1108.3	1329.2	1350.1
117.5°	271.9	292.7	313.6	318.8	424.8	566.1	636.8	769.8	1035.6	1235.1	1258.2
120°	290.1	309.6	329.3	334.2	431.2	560.4	625.0	746.4	989.4	1171.6	1194.0
122.5°	307.7	327.5	347.3	352.3	440.1	557.3	616.0	725.3	944.1	1108.2	1130.4
125°	335.0	353.0	371.0	375.5	452.4	554.9	606.1	699.0	884.9	1024.3	1044.7
127.5°	357.1	375.2	393.4	398.0	464.6	553.4	597.8	677.6	837.2	956.9	974.1
130°	368.8	388.4	408.1	413.0	473.5	554.3	594.6	665.7	807.7	914.2	930.2
132.5°	381.1	400.7	420.4	425.2	480.8	554.9	592.0	655.5	782.7	878.0	892.2
135°	399.2	417.1	434.9	439.4	488.6	554.3	587.2	640.4	746.9	826.7	839.1
137.5°	417.8	435.5	453.1	457.5	500.5	557.7	586.4	631.4	721.5	789.0	799.0
140°	433.1	449.4	465.7	469.8	507.7	558.3	583.6	622.5	700.3	758.6	768.0
142.5°	444.9	459.9	475.0	478.8	513.8	560.3	583.6	617.8	686.1	737.4	745.5
145°	463.1	476.2	489.4	492.6	521.7	560.4	579.7	607.6	663.6	705.4	711.6
147.5°	481.2	494.0	506.8	509.9	533.2	564.2	579.7	601.7	645.6	678.6	683.6
150°	493.0	504.6	516.1	519.0	539.3	566.2	579.7	598.3	635.5	663.3	667.4
152.5°	505.2	514.0	522.7	524.9	543.2	567.6	579.7	595.6	627.2	651.0	654.2
155°	523.3	529.8	536.3	537.9	551.9	570.4	579.7	592.3	617.5	636.4	638.5
157.5°	536.7	543.0	549.3	550.9	560.5	573.3	579.7	589.5	609.1	623.8	625.2
160°	545.8	550.8	555.6	556.9	564.5	574.7	579.7	588.1	604.9	617.5	618.3
162.5°	554.9	558.6	562.2	563.2	568.7	576.1	579.7	586.8	601.0	611.6	612.4
165°	564.7	568.1	571.3	572.2	574.7	578.0	579.7	584.8	594.9	602.6	603.4
167.5°	573.8	575.3	576.9	577.3	579.4	582.2	583.6	587.0	593.7	598.6	599.0
170°	579.7	581.2	582.9	583.3	583.4	583.5	583.6	587.0	593.7	598.6	598.6
172.5°	582.9	583.3	583.5	583.6	583.6	583.6	583.6	586.3	591.6	595.5	595.2
175°	587.2	587.2	587.2	587.2	586.0	584.4	583.6	585.3	588.6	591.1	591.1
177.5°	587.2	587.2	587.2	587.2	586.2	585.0	584.4	585.7	588.3	590.3	589.9
180°	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1390.0	1386.2	1390.0	1387.4	1388.7	1384.9	1373.3	1369.5	1373.3	1377.2	1377.2
5°	1406.7	1404.1	1406.7	1406.7	1405.4	1402.8	1390.0	1387.4	1390.0	1391.3	1388.7
7.5°	1411.8	1408.0	1411.8	1409.2	1409.2	1406.7	1393.8	1391.3	1392.6	1396.4	1392.6
10°	1411.8	1408.0	1411.8	1410.5	1409.2	1406.7	1393.8	1388.7	1388.7	1392.6	1388.7
12.5°	1405.4	1402.8	1405.4	1402.8	1402.8	1400.3	1387.4	1382.3	1383.6	1384.9	1379.7
15°	1395.1	1391.3	1395.1	1392.6	1393.8	1390.0	1375.9	1370.8	1370.8	1373.3	1364.3
17.5°	1379.7	1374.6	1379.7	1378.5	1377.2	1374.6	1361.8	1356.7	1355.4	1356.7	1350.3
20°	1361.8	1357.9	1361.8	1360.5	1360.5	1355.4	1342.5	1336.1	1336.1	1336.1	1329.7
22.5°	1333.6	1329.7	1333.6	1336.1	1336.1	1334.9	1323.3	1314.3	1311.8	1311.8	1304.1
25°	1301.5	1297.7	1301.5	1301.5	1300.3	1301.5	1297.7	1292.5	1288.7	1284.9	1277.1
27.5°	1270.7	1268.2	1270.7	1268.2	1270.7	1266.9	1265.6	1264.3	1259.2	1255.3	1245.1
30°	1239.9	1237.4	1239.9	1237.4	1234.9	1232.3	1225.9	1223.3	1228.5	1225.9	1209.2
32.5°	1201.5	1198.9	1201.5	1201.5	1198.9	1198.9	1188.7	1184.9	1186.1	1193.9	1178.5
35°	1161.7	1157.9	1161.7	1160.5	1161.7	1157.9	1151.5	1150.3	1145.1	1154.1	1142.5
37.5°	1115.6	1111.7	1115.6	1115.6	1115.6	1118.1	1113.1	1109.2	1101.5	1113.1	1104.1
40°	1068.1	1063.0	1068.1	1066.9	1068.1	1070.7	1068.1	1065.6	1057.9	1066.9	1059.2
42.5°	1014.3	1013.0	1014.3	1015.6	1015.6	1020.7	1024.5	1019.4	1016.9	1010.4	1015.6
45°	956.6	954.0	956.6	959.2	960.4	963.0	974.5	974.5	970.7	960.4	968.1
47.5°	895.0	888.6	895.0	902.8	902.8	906.6	918.1	927.1	920.7	907.8	911.7
50°	829.6	831.0	829.6	834.8	834.8	848.8	857.8	866.8	873.2	857.8	839.9
52.5°	765.6	764.2	765.6	769.4	774.5	781.0	796.3	805.2	815.6	806.6	778.4
55°	701.4	704.0	701.4	702.7	705.2	709.1	732.2	741.2	760.4	748.8	719.4
57.5°	637.3	633.4	637.3	639.9	641.2	645.0	664.2	680.9	692.4	693.7	657.8
60°	562.9	557.8	562.9	574.5	577.0	579.6	597.5	612.9	623.2	627.0	589.9
62.5°	497.5	488.5	497.5	505.2	510.3	516.7	529.6	552.7	561.6	562.9	510.3
65°	428.3	424.5	428.3	443.7	444.9	452.7	466.7	483.4	502.7	500.1	424.5
67.5°	365.5	365.5	365.5	375.7	383.5	387.3	405.2	412.9	437.3	439.9	353.9
70°	307.7	306.5	307.7	315.5	320.5	329.5	346.3	355.2	374.5	380.9	287.3
72.5°	252.6	251.3	252.6	259.0	264.1	271.9	285.9	296.2	312.9	320.5	223.1
75°	203.9	201.3	203.9	209.0	207.7	218.0	229.5	239.8	255.2	260.3	165.4
77.5°	156.4	156.4	156.4	161.6	161.6	171.8	177.0	189.8	198.8	206.5	121.8
80°	116.7	115.4	116.7	118.0	118.0	123.1	132.1	141.0	148.8	148.8	83.4
82.5°	82.0	79.5	82.0	82.0	82.0	84.6	89.8	92.3	97.4	101.3	52.6
85°	51.3	51.3	51.3	52.6	51.3	53.8	55.2	57.7	57.7	55.2	32.0
87.5°	33.4	32.0	33.4	32.0	32.0	30.8	30.8	30.8	29.5	28.2	18.0
90°	15.0	15.0	15.0	15.0	15.0	20.0	26.6	29.9	25.7	17.3	11.0
92.5°	59.9	48.1	59.9	71.9	74.9	106.1	147.8	168.6	148.1	107.0	76.1
95°	209.1	173.0	209.1	245.2	254.2	333.8	440.0	493.0	416.3	263.1	148.2
97.5°	500.9	432.3	500.9	569.6	586.8	637.1	704.2	737.7	609.9	354.4	162.7
100°	721.8	639.9	721.8	803.5	824.0	820.3	815.5	813.0	671.2	387.7	174.9
102.5°	939.0	868.9	939.0	1009.1	1026.6	962.5	877.0	834.3	690.5	402.9	187.2
105°	1215.9	1178.3	1215.9	1253.6	1263.1	1119.4	927.7	831.9	692.7	414.2	205.3
107.5°	1397.4	1406.5	1397.4	1388.3	1386.0	1185.5	918.2	784.6	661.8	416.2	232.1
110°	1466.5	1505.8	1466.5	1427.3	1417.5	1193.4	894.6	745.2	634.5	413.2	247.1



TEST NUMBER: P934212

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

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1472.7	1532.9	1472.7	1412.5	1397.4	1168.0	862.2	709.4	610.7	413.3	265.2
115°	1433.6	1517.2	1433.6	1350.1	1329.2	1108.3	813.7	666.4	583.4	417.1	292.4
117.5°	1350.9	1443.6	1350.9	1258.2	1235.1	1035.6	769.8	636.8	566.1	424.8	318.8
120°	1284.1	1374.2	1284.1	1194.0	1171.6	989.4	746.4	625.0	560.4	431.2	334.2
122.5°	1219.2	1308.0	1219.2	1130.4	1108.2	944.1	725.3	616.0	557.3	440.1	352.3
125°	1126.5	1208.3	1126.5	1044.7	1024.3	884.9	699.0	606.1	554.9	452.4	375.5
127.5°	1043.1	1112.1	1043.1	974.1	956.9	837.2	677.6	597.8	553.4	464.6	398.0
130°	994.0	1057.7	994.0	930.2	914.2	807.7	665.7	594.6	554.3	473.5	413.0
132.5°	949.4	1006.5	949.4	892.2	878.0	782.7	655.5	592.0	554.9	480.8	425.2
135°	888.3	937.5	888.3	839.1	826.7	746.9	640.4	587.2	554.3	488.6	439.4
137.5°	839.4	879.6	839.4	799.0	789.0	721.5	631.4	586.4	557.7	500.5	457.5
140°	805.6	843.3	805.6	768.0	758.6	700.3	622.5	583.6	558.3	507.7	469.8
142.5°	777.8	810.2	777.8	745.5	737.4	686.1	617.8	583.6	560.3	513.8	478.8
145°	736.1	760.6	736.1	711.6	705.4	663.6	607.6	579.7	560.4	521.7	492.6
147.5°	704.0	724.4	704.0	683.6	678.6	645.6	601.7	579.7	564.2	533.2	509.9
150°	683.8	700.3	683.8	667.4	663.3	635.5	598.3	579.7	566.2	539.3	519.0
152.5°	666.6	679.0	666.6	654.2	651.0	627.2	595.6	579.7	567.6	543.2	524.9
155°	646.7	655.0	646.7	638.5	636.4	617.5	592.3	579.7	570.4	551.9	537.9
157.5°	631.1	636.8	631.1	625.2	623.8	609.1	589.5	579.7	573.3	560.5	550.9
160°	621.7	625.0	621.7	618.3	617.5	604.9	588.1	579.7	574.7	564.5	556.9
162.5°	615.6	618.7	615.6	612.4	611.6	601.0	586.8	579.7	576.1	568.7	563.2
165°	606.7	610.0	606.7	603.4	602.6	594.9	584.8	579.7	578.0	574.7	572.2
167.5°	600.4	601.8	600.4	599.0	598.6	593.7	587.0	583.6	582.2	579.4	577.3
170°	598.6	598.6	598.6	598.6	598.6	593.7	587.0	583.6	583.5	583.4	583.3
172.5°	594.0	592.7	594.0	595.2	595.5	591.6	586.3	583.6	583.6	583.6	583.6
175°	591.1	591.1	591.1	591.1	591.1	588.6	585.3	583.6	584.4	586.0	587.2
177.5°	588.6	587.2	588.6	589.9	590.3	588.3	585.7	584.4	585.0	586.2	587.2
180°	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2



TEST NUMBER: P934212

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

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1374.6	1366.9	1366.9	1354.1	1349.0	1345.1	1338.7	1319.5	1314.3	1309.2	1316.9
5°	1386.2	1372.1	1361.8	1338.7	1319.5	1311.8	1287.4	1241.3	1210.5	1187.4	1174.5
7.5°	1388.7	1370.8	1351.5	1315.6	1269.5	1248.9	1174.5	1089.9	1066.9	1046.3	1033.5
10°	1386.2	1365.6	1338.7	1284.9	1175.9	1139.9	1065.6	1010.4	996.3	992.5	996.3
12.5°	1377.2	1357.9	1320.7	1231.0	1078.4	1054.1	1010.4	978.4	975.8	982.2	1016.9
15°	1361.8	1343.8	1300.3	1159.1	1024.5	1006.6	975.8	964.3	978.4	1023.3	1127.1
17.5°	1346.4	1325.9	1272.1	1088.7	983.5	970.7	948.9	972.0	1051.5	1111.7	1146.3
20°	1325.9	1301.5	1239.9	1037.4	954.0	942.5	932.2	1036.1	1096.3	1118.1	1137.4
22.5°	1301.5	1275.9	1196.3	1001.5	923.2	914.3	920.7	1072.0	1096.3	1111.7	1128.4
25°	1269.5	1247.7	1145.1	973.3	898.9	888.6	913.0	1068.1	1082.3	1086.1	1119.5
27.5°	1239.9	1211.7	1091.3	947.6	869.4	865.6	919.4	1051.5	1061.7	1065.6	1101.5
30°	1204.1	1161.7	1031.0	920.7	838.6	837.4	920.7	1031.0	1028.4	1038.7	1074.5
32.5°	1166.9	1087.4	963.0	887.4	809.2	807.8	911.7	1000.2	997.6	1011.7	1038.7
35°	1132.3	1029.7	870.6	848.8	772.0	773.2	889.9	964.3	965.6	978.4	995.1
37.5°	1096.3	979.7	769.4	806.6	736.0	736.0	860.4	931.0	928.4	932.2	955.3
40°	1054.1	901.4	679.6	751.4	702.7	698.8	824.6	895.0	886.0	884.8	916.8
42.5°	1009.2	815.6	612.9	678.4	664.2	659.1	781.0	851.4	834.8	838.6	879.6
45°	960.4	792.4	561.6	573.2	624.5	620.6	733.4	801.4	789.8	800.2	842.4
47.5°	911.7	746.3	545.0	475.7	582.2	580.9	680.9	752.7	746.3	756.6	801.4
50°	845.0	695.0	543.7	407.7	534.7	539.9	618.1	705.2	705.2	714.2	761.6
52.5°	759.2	632.2	493.7	369.3	479.5	494.9	562.9	664.2	666.8	675.8	718.1
55°	680.9	566.8	457.7	339.8	414.1	447.5	509.1	621.9	627.0	636.0	674.5
57.5°	609.1	471.9	450.1	305.2	353.9	385.9	461.7	580.9	583.4	591.1	628.3
60°	532.1	341.1	412.9	268.0	301.3	325.7	418.1	532.1	541.1	546.3	578.3
62.5°	444.9	247.5	374.5	242.3	275.7	280.8	382.1	486.0	497.5	501.4	520.6
65°	316.7	207.7	318.0	220.5	248.8	250.1	343.7	438.5	448.8	455.2	469.3
67.5°	214.1	169.3	242.3	200.0	228.3	229.5	306.5	383.5	397.5	402.7	411.7
70°	148.8	112.8	179.5	178.2	205.2	207.7	266.7	333.4	346.3	350.1	355.2
72.5°	109.0	91.0	148.8	160.3	180.8	183.4	225.7	277.0	289.8	293.7	296.2
75°	83.4	96.2	120.6	139.8	153.9	155.2	184.6	225.7	234.7	237.2	238.5
77.5°	66.6	89.8	88.5	112.8	125.6	123.1	144.9	174.4	182.1	182.1	182.1
80°	50.0	70.6	66.6	80.8	92.3	89.8	103.8	124.4	127.0	129.5	128.2
82.5°	37.2	44.8	44.8	51.3	61.6	59.0	69.2	80.8	80.8	80.8	83.4
85°	23.0	25.6	20.6	27.0	34.6	33.4	38.4	43.6	44.8	44.8	42.4
87.5°	14.1	11.6	6.4	10.2	15.4	15.4	18.0	19.2	18.0	18.0	18.0
90°	10.2	7.1	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.6	20.0
92.5°	69.4	42.5	15.8	42.5	69.4	76.1	107.0	148.1	168.6	147.8	106.1
95°	135.9	86.9	37.9	86.9	135.9	148.2	263.1	416.3	493.0	440.0	333.8
97.5°	151.9	108.6	65.4	108.6	151.9	162.7	354.4	609.9	737.7	704.2	637.1
100°	165.1	125.9	86.7	125.9	165.1	174.9	387.7	671.2	813.0	815.5	820.3
102.5°	178.0	141.5	104.9	141.5	178.0	187.2	402.9	690.5	834.3	877.0	962.5
105°	197.6	166.5	135.6	166.5	197.6	205.3	414.2	692.7	831.9	927.7	1119.4
107.5°	224.9	196.0	167.1	196.0	224.9	232.1	416.2	661.8	784.6	918.2	1185.5
110°	240.6	214.4	188.3	214.4	240.6	247.1	413.2	634.5	745.2	894.6	1193.4



TEST NUMBER: P934212

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

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	259.0	234.1	209.3	234.1	259.0	265.2	413.3	610.7	709.4	862.2	1168.0
115°	286.7	263.8	240.8	263.8	286.7	292.4	417.1	583.4	666.4	813.7	1108.3
117.5°	313.6	292.7	271.9	292.7	313.6	318.8	424.8	566.1	636.8	769.8	1035.6
120°	329.3	309.6	290.1	309.6	329.3	334.2	431.2	560.4	625.0	746.4	989.4
122.5°	347.3	327.5	307.7	327.5	347.3	352.3	440.1	557.3	616.0	725.3	944.1
125°	371.0	353.0	335.0	353.0	371.0	375.5	452.4	554.9	606.1	699.0	884.9
127.5°	393.4	375.2	357.1	375.2	393.4	398.0	464.6	553.4	597.8	677.6	837.2
130°	408.1	388.4	368.8	388.4	408.1	413.0	473.5	554.3	594.6	665.7	807.7
132.5°	420.4	400.7	381.1	400.7	420.4	425.2	480.8	554.9	592.0	655.5	782.7
135°	434.9	417.1	399.2	417.1	434.9	439.4	488.6	554.3	587.2	640.4	746.9
137.5°	453.1	435.5	417.8	435.5	453.1	457.5	500.5	557.7	586.4	631.4	721.5
140°	465.7	449.4	433.1	449.4	465.7	469.8	507.7	558.3	583.6	622.5	700.3
142.5°	475.0	459.9	444.9	459.9	475.0	478.8	513.8	560.3	583.6	617.8	686.1
145°	489.4	476.2	463.1	476.2	489.4	492.6	521.7	560.4	579.7	607.6	663.6
147.5°	506.8	494.0	481.2	494.0	506.8	509.9	533.2	564.2	579.7	601.7	645.6
150°	516.1	504.6	493.0	504.6	516.1	519.0	539.3	566.2	579.7	598.3	635.5
152.5°	522.7	514.0	505.2	514.0	522.7	524.9	543.2	567.6	579.7	595.6	627.2
155°	536.3	529.8	523.3	529.8	536.3	537.9	551.9	570.4	579.7	592.3	617.5
157.5°	549.3	543.0	536.7	543.0	549.3	550.9	560.5	573.3	579.7	589.5	609.1
160°	555.6	550.8	545.8	550.8	555.6	556.9	564.5	574.7	579.7	588.1	604.9
162.5°	562.2	558.6	554.9	558.6	562.2	563.2	568.7	576.1	579.7	586.8	601.0
165°	571.3	568.1	564.7	568.1	571.3	572.2	574.7	578.0	579.7	584.8	594.9
167.5°	576.9	575.3	573.8	575.3	576.9	577.3	579.4	582.2	583.6	587.0	593.7
170°	582.9	581.2	579.7	581.2	582.9	583.3	583.4	583.5	583.6	587.0	593.7
172.5°	583.5	583.3	582.9	583.3	583.5	583.6	583.6	583.6	583.6	586.3	591.6
175°	587.2	587.2	587.2	587.2	587.2	587.2	586.0	584.4	583.6	585.3	588.6
177.5°	587.2	587.2	587.2	587.2	587.2	587.2	586.2	585.0	584.4	585.7	588.3
180°	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2



TEST NUMBER: P934212

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

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1307.9	1304.1	1309.2	1295.1	1309.2	1304.1	1307.9	1316.9	1309.2	1314.3	1319.5
5°	1147.7	1141.3	1120.7	1104.1	1120.7	1141.3	1147.7	1174.5	1187.4	1210.5	1241.3
7.5°	1025.8	1020.7	1015.6	1005.3	1015.6	1020.7	1025.8	1033.5	1046.3	1066.9	1089.9
10°	998.9	1000.2	1007.9	1006.6	1007.9	1000.2	998.9	996.3	992.5	996.3	1010.4
12.5°	1068.1	1079.7	1122.0	1119.5	1122.0	1079.7	1068.1	1016.9	982.2	975.8	978.4
15°	1147.7	1151.5	1160.5	1161.7	1160.5	1151.5	1147.7	1127.1	1023.3	978.4	964.3
17.5°	1155.3	1156.7	1163.1	1163.1	1163.1	1156.7	1155.3	1146.3	1111.7	1051.5	972.0
20°	1148.9	1151.5	1164.3	1166.9	1164.3	1151.5	1148.9	1137.4	1118.1	1096.3	1036.1
22.5°	1146.3	1151.5	1161.7	1160.5	1161.7	1151.5	1146.3	1128.4	1111.7	1096.3	1072.0
25°	1133.5	1133.5	1134.9	1136.1	1134.9	1133.5	1133.5	1119.5	1086.1	1082.3	1068.1
27.5°	1106.6	1109.2	1116.9	1115.6	1116.9	1109.2	1106.6	1101.5	1065.6	1061.7	1051.5
30°	1082.3	1079.7	1073.3	1068.1	1073.3	1079.7	1082.3	1074.5	1038.7	1028.4	1031.0
32.5°	1041.2	1034.8	1028.4	1024.5	1028.4	1034.8	1041.2	1038.7	1011.7	997.6	1000.2
35°	992.5	993.8	992.5	988.6	992.5	993.8	992.5	995.1	978.4	965.6	964.3
37.5°	957.9	960.4	959.2	954.0	959.2	960.4	957.9	955.3	932.2	928.4	931.0
40°	922.0	923.2	922.0	918.1	922.0	923.2	922.0	916.8	884.8	886.0	895.0
42.5°	887.4	886.0	882.2	879.6	882.2	886.0	887.4	879.6	838.6	834.8	851.4
45°	847.6	848.8	841.2	837.4	841.2	848.8	847.6	842.4	800.2	789.8	801.4
47.5°	807.8	807.8	801.4	797.6	801.4	807.8	807.8	801.4	756.6	746.3	752.7
50°	765.6	764.2	755.2	754.0	755.2	764.2	765.6	761.6	714.2	705.2	705.2
52.5°	716.8	716.8	718.1	720.6	718.1	716.8	716.8	718.1	675.8	666.8	664.2
55°	674.5	675.8	684.8	687.3	684.8	675.8	674.5	674.5	636.0	627.0	621.9
57.5°	630.9	630.9	637.3	637.3	637.3	630.9	630.9	628.3	591.1	583.4	580.9
60°	580.9	583.4	588.6	587.3	588.6	583.4	580.9	578.3	546.3	541.1	532.1
62.5°	528.3	530.9	532.1	529.6	532.1	530.9	528.3	520.6	501.4	497.5	486.0
65°	473.1	475.7	477.0	474.5	477.0	475.7	473.1	469.3	455.2	448.8	438.5
67.5°	416.7	415.5	414.1	419.3	414.1	415.5	416.7	411.7	402.7	397.5	383.5
70°	359.1	359.1	357.7	360.3	357.7	359.1	359.1	355.2	350.1	346.3	333.4
72.5°	297.5	296.2	301.3	297.5	301.3	296.2	297.5	296.2	293.7	289.8	277.0
75°	237.2	239.8	237.2	241.1	237.2	239.8	237.2	238.5	237.2	234.7	225.7
77.5°	180.8	183.4	180.8	180.8	180.8	183.4	180.8	182.1	182.1	182.1	174.4
80°	128.2	127.0	127.0	125.6	127.0	127.0	128.2	128.2	129.5	127.0	124.4
82.5°	82.0	80.8	80.8	83.4	80.8	80.8	82.0	83.4	80.8	80.8	80.8
85°	44.8	46.2	43.6	43.6	43.6	46.2	44.8	42.4	44.8	44.8	43.6
87.5°	16.6	15.4	15.4	15.4	15.4	15.4	16.6	18.0	18.0	18.0	19.2
90°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	20.0	26.6	29.9	25.7
92.5°	74.9	71.9	59.9	48.1	59.9	71.9	74.9	106.1	147.8	168.6	148.1
95°	254.2	245.2	209.1	173.0	209.1	245.2	254.2	333.8	440.0	493.0	416.3
97.5°	586.8	569.6	500.9	432.3	500.9	569.6	586.8	637.1	704.2	737.7	609.9
100°	824.0	803.5	721.8	639.9	721.8	803.5	824.0	820.3	815.5	813.0	671.2
102.5°	1026.6	1009.1	939.0	868.9	939.0	1009.1	1026.6	962.5	877.0	834.3	690.5
105°	1263.1	1253.6	1215.9	1178.3	1215.9	1253.6	1263.1	1119.4	927.7	831.9	692.7
107.5°	1386.0	1388.3	1397.4	1406.5	1397.4	1388.3	1386.0	1185.5	918.2	784.6	661.8
110°	1417.5	1427.3	1466.5	1505.8	1466.5	1427.3	1417.5	1193.4	894.6	745.2	634.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1397.4	1412.5	1472.7	1532.9	1472.7	1412.5	1397.4	1168.0	862.2	709.4	610.7
115°	1329.2	1350.1	1433.6	1517.2	1433.6	1350.1	1329.2	1108.3	813.7	666.4	583.4
117.5°	1235.1	1258.2	1350.9	1443.6	1350.9	1258.2	1235.1	1035.6	769.8	636.8	566.1
120°	1171.6	1194.0	1284.1	1374.2	1284.1	1194.0	1171.6	989.4	746.4	625.0	560.4
122.5°	1108.2	1130.4	1219.2	1308.0	1219.2	1130.4	1108.2	944.1	725.3	616.0	557.3
125°	1024.3	1044.7	1126.5	1208.3	1126.5	1044.7	1024.3	884.9	699.0	606.1	554.9
127.5°	956.9	974.1	1043.1	1112.1	1043.1	974.1	956.9	837.2	677.6	597.8	553.4
130°	914.2	930.2	994.0	1057.7	994.0	930.2	914.2	807.7	665.7	594.6	554.3
132.5°	878.0	892.2	949.4	1006.5	949.4	892.2	878.0	782.7	655.5	592.0	554.9
135°	826.7	839.1	888.3	937.5	888.3	839.1	826.7	746.9	640.4	587.2	554.3
137.5°	789.0	799.0	839.4	879.6	839.4	799.0	789.0	721.5	631.4	586.4	557.7
140°	758.6	768.0	805.6	843.3	805.6	768.0	758.6	700.3	622.5	583.6	558.3
142.5°	737.4	745.5	777.8	810.2	777.8	745.5	737.4	686.1	617.8	583.6	560.3
145°	705.4	711.6	736.1	760.6	736.1	711.6	705.4	663.6	607.6	579.7	560.4
147.5°	678.6	683.6	704.0	724.4	704.0	683.6	678.6	645.6	601.7	579.7	564.2
150°	663.3	667.4	683.8	700.3	683.8	667.4	663.3	635.5	598.3	579.7	566.2
152.5°	651.0	654.2	666.6	679.0	666.6	654.2	651.0	627.2	595.6	579.7	567.6
155°	636.4	638.5	646.7	655.0	646.7	638.5	636.4	617.5	592.3	579.7	570.4
157.5°	623.8	625.2	631.1	636.8	631.1	625.2	623.8	609.1	589.5	579.7	573.3
160°	617.5	618.3	621.7	625.0	621.7	618.3	617.5	604.9	588.1	579.7	574.7
162.5°	611.6	612.4	615.6	618.7	615.6	612.4	611.6	601.0	586.8	579.7	576.1
165°	602.6	603.4	606.7	610.0	606.7	603.4	602.6	594.9	584.8	579.7	578.0
167.5°	598.6	599.0	600.4	601.8	600.4	599.0	598.6	593.7	587.0	583.6	582.2
170°	598.6	598.6	598.6	598.6	598.6	598.6	598.6	593.7	587.0	583.6	583.5
172.5°	595.5	595.2	594.0	592.7	594.0	595.2	595.5	591.6	586.3	583.6	583.6
175°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	588.6	585.3	583.6	584.4
177.5°	590.3	589.9	588.6	587.2	588.6	589.9	590.3	588.3	585.7	584.4	585.0
180°	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2



TEST NUMBER: P934212

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

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1338.7	1345.1	1349.0	1354.1	1366.9
5°	1287.4	1311.8	1319.5	1338.7	1361.8
7.5°	1174.5	1248.9	1269.5	1315.6	1351.5
10°	1065.6	1139.9	1175.9	1284.9	1338.7
12.5°	1010.4	1054.1	1078.4	1231.0	1320.7
15°	975.8	1006.6	1024.5	1159.1	1300.3
17.5°	948.9	970.7	983.5	1088.7	1272.1
20°	932.2	942.5	954.0	1037.4	1239.9
22.5°	920.7	914.3	923.2	1001.5	1196.3
25°	913.0	888.6	898.9	973.3	1145.1
27.5°	919.4	865.6	869.4	947.6	1091.3
30°	920.7	837.4	838.6	920.7	1031.0
32.5°	911.7	807.8	809.2	887.4	963.0
35°	889.9	773.2	772.0	848.8	870.6
37.5°	860.4	736.0	736.0	806.6	769.4
40°	824.6	698.8	702.7	751.4	679.6
42.5°	781.0	659.1	664.2	678.4	612.9
45°	733.4	620.6	624.5	573.2	561.6
47.5°	680.9	580.9	582.2	475.7	545.0
50°	618.1	539.9	534.7	407.7	543.7
52.5°	562.9	494.9	479.5	369.3	493.7
55°	509.1	447.5	414.1	339.8	457.7
57.5°	461.7	385.9	353.9	305.2	450.1
60°	418.1	325.7	301.3	268.0	412.9
62.5°	382.1	280.8	275.7	242.3	374.5
65°	343.7	250.1	248.8	220.5	318.0
67.5°	306.5	229.5	228.3	200.0	242.3
70°	266.7	207.7	205.2	178.2	179.5
72.5°	225.7	183.4	180.8	160.3	148.8
75°	184.6	155.2	153.9	139.8	120.6
77.5°	144.9	123.1	125.6	112.8	88.5
80°	103.8	89.8	92.3	80.8	66.6
82.5°	69.2	59.0	61.6	51.3	44.8
85°	38.4	33.4	34.6	27.0	20.6
87.5°	18.0	15.4	15.4	10.2	6.4
90°	17.3	11.0	10.2	7.1	3.9
92.5°	107.0	76.1	69.4	42.5	15.8
95°	263.1	148.2	135.9	86.9	37.9
97.5°	354.4	162.7	151.9	108.6	65.4
100°	387.7	174.9	165.1	125.9	86.7
102.5°	402.9	187.2	178.0	141.5	104.9
105°	414.2	205.3	197.6	166.5	135.6
107.5°	416.2	232.1	224.9	196.0	167.1
110°	413.2	247.1	240.6	214.4	188.3



TEST NUMBER: P934212

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

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	413.3	265.2	259.0	234.1	209.3
115°	417.1	292.4	286.7	263.8	240.8
117.5°	424.8	318.8	313.6	292.7	271.9
120°	431.2	334.2	329.3	309.6	290.1
122.5°	440.1	352.3	347.3	327.5	307.7
125°	452.4	375.5	371.0	353.0	335.0
127.5°	464.6	398.0	393.4	375.2	357.1
130°	473.5	413.0	408.1	388.4	368.8
132.5°	480.8	425.2	420.4	400.7	381.1
135°	488.6	439.4	434.9	417.1	399.2
137.5°	500.5	457.5	453.1	435.5	417.8
140°	507.7	469.8	465.7	449.4	433.1
142.5°	513.8	478.8	475.0	459.9	444.9
145°	521.7	492.6	489.4	476.2	463.1
147.5°	533.2	509.9	506.8	494.0	481.2
150°	539.3	519.0	516.1	504.6	493.0
152.5°	543.2	524.9	522.7	514.0	505.2
155°	551.9	537.9	536.3	529.8	523.3
157.5°	560.5	550.9	549.3	543.0	536.7
160°	564.5	556.9	555.6	550.8	545.8
162.5°	568.7	563.2	562.2	558.6	554.9
165°	574.7	572.2	571.3	568.1	564.7
167.5°	579.4	577.3	576.9	575.3	573.8
170°	583.4	583.3	582.9	581.2	579.7
172.5°	583.6	583.6	583.5	583.3	582.9
175°	586.0	587.2	587.2	587.2	587.2
177.5°	586.2	587.2	587.2	587.2	587.2
180°	587.2	587.2	587.2	587.2	587.2



TEST NUMBER: P934212
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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	11.01	11.85	11.98	12.84	14.14	13.85	14.69	14.82	15.68	16.98
	3H	11.49	12.24	12.47	13.24	14.56	15.19	15.95	16.18	16.95	18.27
	4H	11.68	12.39	12.67	13.39	14.72	15.64	16.35	16.64	17.36	18.68
	6H	11.79	12.45	12.80	13.46	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	16.63	17.01	17.65	18.99
	12H	11.76	12.36	12.78	13.38	14.74	16.04	16.64	17.06	17.65	19.01
4H	2H	12.04	12.76	13.05	13.76	15.09	14.25	14.97	15.26	15.97	17.30
	3H	13.07	13.66	14.08	14.69	16.04	15.76	16.36	16.77	17.39	18.73
	4H	13.34	13.89	14.36	14.91	16.28	16.29	16.83	17.31	17.86	19.22
	6H	13.47	13.94	14.50	14.98	16.34	16.66	17.12	17.69	18.17	19.53
	8H	13.47	13.91	14.51	14.95	16.33	16.76	17.20	17.80	18.24	19.62
	12H	13.44	13.83	14.49	14.89	16.27	16.82	17.22	17.87	18.27	19.65
8H	4H	13.80	14.23	14.83	15.27	16.65	16.41	16.85	17.45	17.89	19.27
	6H	14.06	14.42	15.11	15.50	16.87	16.85	17.21	17.91	18.29	19.67
	8H	14.10	14.42	15.16	15.48	16.88	17.00	17.32	18.07	18.39	19.78
	12H	14.08	14.36	15.15	15.42	16.86	17.10	17.38	18.17	18.44	19.88
12H	4H	13.80	14.20	14.85	15.25	16.63	16.38	16.77	17.43	17.82	19.21
	6H	14.12	14.44	15.18	15.50	16.90	16.85	17.17	17.91	18.23	19.62
	8H	14.18	14.46	15.25	15.52	16.96	17.01	17.29	18.08	18.35	19.78