

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: P934550

Luminaire Tested: SQ4-FA-050U-125D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934550
REPORT IS A COMBINATION OF REPORTS P933702 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

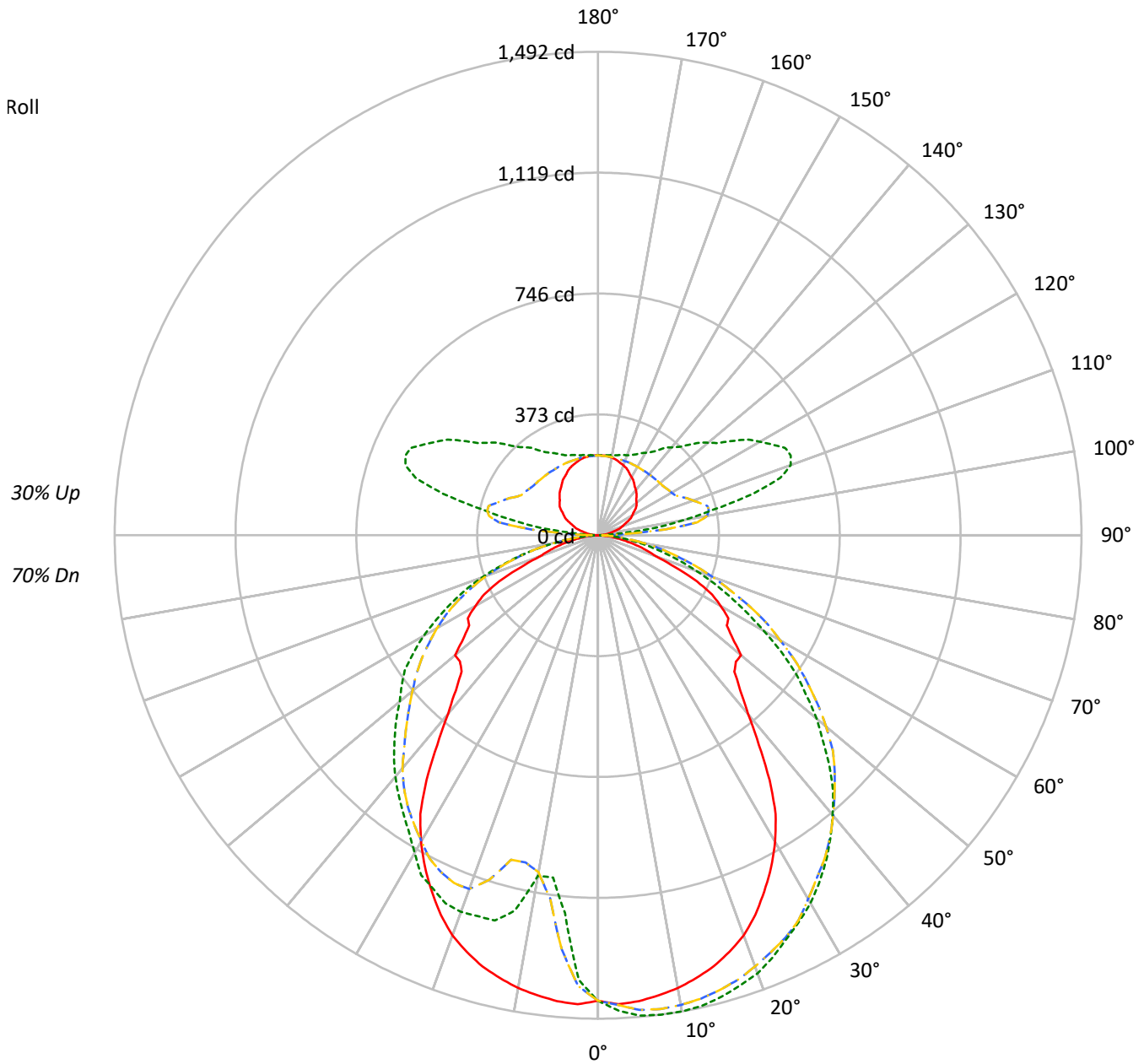
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5323.9 lumens
Efficiency: N/A
Efficacy: 95.1 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-Direct

Input Watts (W): 56
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				
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13329	13329	13329	13329
5°	13414	13454	13414	10580
10°	13309	13253	13309	9476
15°	13149	12967	13149	10827
20°	12859	12626	12859	10849
25°	12281	12130	12281	10620
30°	11540	11718	11540	10115
35°	10272	11197	10272	9561
40°	8545	10583	8545	9141
45°	7620	9866	7620	8659
50°	8077	9010	8077	8176
55°	7579	8087	7579	7896
60°	7784	6869	7784	7232
65°	7023	5678	7023	6347
70°	4829	4525	4829	5319
75°	4191	3345	4191	4006
80°	3309	2211	3309	2406
85°	1805	1172	1805	995

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11701 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	2.4
10°-20°	368.1	6.9
20°-30°	569.1	10.7
30°-40°	679.4	12.8
40°-50°	683.3	12.8
50°-60°	594.6	11.2
60°-70°	421.6	7.9
70°-80°	223.0	4.2
80°-90°	56.5	1.1
90°-100°	120.2	2.3
100°-110°	316.0	5.9
110°-120°	327.7	6.2
120°-130°	262.9	4.9
130°-140°	206.2	3.9
140°-150°	158.3	3.0
150°-160°	114.0	2.1
160°-170°	69.8	1.3
170°-180°	23.6	0.4
0°-30°	1066.9	20.0
0°-40°	1746.2	32.8
0°-60°	3024.2	56.8
0°-90°	3725.2	70.0
90°-120°	763.9	14.3
90°-150°	1391.3	26.1
90°-180°	1599.0	30.0
0°-180°	5323.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1436	1436	1436	1436	1436	
5°	1443	1488	1443	1170	1443	137
15°	1378	1474	1378	1231	1378	388
25°	1214	1375	1214	1204	1214	557
35°	923	1227	923	1048	923	571
45°	595	1011	595	887	595	477
55°	485	746	485	728	485	446
65°	337	450	337	503	337	322
75°	128	213	128	256	128	134
85°	22	54	22	46	22	29
90°	2	6	2	6	2	2
95°	16	73	16	73	16	18
105°	57	495	57	495	57	60
115°	101	637	101	637	101	100
125°	141	507	141	507	141	125
135°	168	394	168	394	168	130
145°	194	319	194	319	194	122
155°	220	275	220	275	220	101
165°	237	256	237	256	237	67
175°	247	248	247	248	247	23
180°	247	247	247	247	247	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1448.6	1448.6	1456.8	1459.5	1459.5	1455.4	1451.3	1455.4	1467.6	1471.7	1470.4
5°	1443.2	1454.1	1469.0	1471.7	1474.5	1473.1	1470.4	1473.1	1486.7	1489.4	1490.8
7.5°	1432.3	1452.7	1471.7	1475.8	1479.8	1475.8	1474.5	1477.2	1490.8	1493.5	1493.5
10°	1418.7	1447.2	1469.0	1471.7	1475.8	1471.7	1471.7	1477.2	1490.8	1493.5	1494.9
12.5°	1399.7	1439.1	1459.5	1462.2	1467.6	1466.3	1464.9	1470.4	1483.9	1486.7	1486.7
15°	1377.9	1424.2	1443.2	1445.9	1455.4	1452.7	1452.7	1458.2	1473.1	1477.2	1475.8
17.5°	1348.1	1405.2	1426.9	1430.9	1437.8	1436.4	1437.8	1443.2	1456.8	1459.5	1460.8
20°	1314.1	1379.3	1405.2	1409.2	1416.0	1416.0	1416.0	1422.8	1436.4	1441.9	1441.9
22.5°	1267.9	1352.2	1379.3	1382.0	1390.2	1390.2	1392.9	1402.4	1414.6	1416.0	1416.0
25°	1213.5	1322.2	1345.3	1353.5	1361.6	1365.7	1369.8	1375.2	1379.3	1377.9	1379.3
27.5°	1156.5	1284.2	1314.1	1319.5	1330.4	1334.5	1339.9	1341.3	1342.6	1346.7	1344.0
30°	1092.6	1231.2	1276.0	1281.5	1299.2	1301.8	1296.4	1299.2	1305.9	1308.6	1311.4
32.5°	1020.5	1152.4	1236.6	1248.8	1265.2	1257.0	1255.7	1259.7	1270.6	1270.6	1273.3
35°	922.7	1091.2	1199.9	1210.8	1223.0	1213.5	1219.0	1220.3	1227.1	1231.2	1229.9
37.5°	815.4	1038.2	1161.9	1170.1	1179.5	1167.3	1175.5	1179.5	1185.0	1182.3	1182.3
40°	720.2	955.3	1117.1	1122.5	1130.6	1121.1	1129.3	1132.0	1134.7	1132.0	1130.6
42.5°	649.5	864.3	1069.5	1076.3	1070.8	1077.6	1080.4	1085.8	1081.7	1076.3	1076.3
45°	595.2	839.9	1017.8	1026.0	1017.8	1028.7	1032.8	1032.8	1020.5	1017.8	1016.5
47.5°	577.5	790.9	966.2	966.2	962.2	975.7	982.5	973.0	960.8	956.7	956.7
50°	576.2	736.5	895.5	890.1	909.2	925.5	918.6	909.2	899.6	884.7	884.7
52.5°	523.2	669.9	804.5	824.8	854.8	864.3	853.4	843.9	827.6	820.8	815.4
55°	485.2	600.6	721.6	762.4	793.6	805.8	785.5	775.9	751.5	747.4	744.7
57.5°	477.0	500.1	645.5	697.2	735.1	733.9	721.6	703.9	683.5	679.5	678.1
60°	437.6	361.5	563.9	625.1	664.5	660.5	649.5	633.2	614.2	611.5	608.8
62.5°	396.8	262.3	471.5	540.8	596.5	595.2	585.7	561.2	547.6	540.8	535.4
65°	337.0	220.2	335.7	449.8	530.0	532.7	512.3	494.6	479.7	471.5	470.2
67.5°	256.8	179.4	226.9	375.1	466.1	463.4	437.6	429.4	410.4	406.3	398.2
70°	190.2	119.6	157.6	304.4	403.6	396.8	376.4	366.9	349.2	339.7	334.3
72.5°	157.6	96.5	115.5	236.5	339.7	331.6	313.9	303.1	288.1	279.9	274.5
75°	127.8	101.9	88.3	175.3	275.8	270.5	254.1	243.2	231.0	220.2	221.5
77.5°	93.8	95.2	70.7	129.1	218.8	210.6	201.2	187.5	182.1	171.2	171.2
80°	70.7	74.8	53.0	88.3	157.6	157.6	149.5	140.0	130.5	125.0	125.0
82.5°	47.5	47.5	39.4	55.7	107.4	103.3	97.8	95.2	89.7	87.0	87.0
85°	21.8	27.1	24.5	34.0	58.5	61.2	61.2	58.5	57.1	54.4	55.7
87.5°	6.8	12.2	14.9	19.0	29.9	31.2	32.6	32.6	32.6	34.0	34.0
90°	1.7	3.0	4.3	4.7	7.3	10.8	12.6	11.2	8.4	6.3	6.3
92.5°	6.6	17.8	29.1	32.0	44.9	62.2	70.8	62.1	44.6	31.5	30.2
95°	15.9	36.5	57.1	62.2	110.5	174.8	207.0	184.7	140.1	106.7	102.9
97.5°	27.5	45.6	63.8	68.3	148.8	256.2	309.8	295.7	267.6	246.4	239.2
100°	36.4	52.8	69.4	73.5	162.8	281.9	341.4	342.5	344.6	346.1	337.5
102.5°	44.0	59.4	74.8	78.6	169.2	290.0	350.3	368.3	404.2	431.1	423.7
105°	56.9	69.9	82.9	86.2	173.9	290.9	349.4	389.6	470.1	530.5	526.5
107.5°	70.2	82.3	94.4	97.5	174.8	278.0	329.6	385.7	497.9	582.1	583.1
110°	79.1	90.0	101.0	103.7	173.5	266.5	313.0	375.7	501.2	595.3	599.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	87.8	98.3	108.7	111.4	173.5	256.5	297.9	362.2	490.6	586.9	593.3
115°	101.1	110.7	120.4	122.8	175.1	244.9	279.8	341.7	465.4	558.2	567.0
117.5°	114.2	122.9	131.7	133.9	178.4	237.8	267.5	323.3	434.9	518.7	528.4
120°	121.8	130.1	138.3	140.4	181.1	235.4	262.5	313.5	415.6	492.1	501.6
122.5°	129.3	137.6	145.9	148.0	184.9	234.1	258.6	304.6	396.5	465.4	474.7
125°	140.7	148.2	155.8	157.7	190.0	233.0	254.6	293.6	371.6	430.2	438.8
127.5°	149.9	157.6	165.3	167.2	195.1	232.5	251.1	284.6	351.6	401.8	409.0
130°	154.9	163.2	171.4	173.4	198.9	232.8	249.7	279.6	339.3	384.0	390.7
132.5°	160.0	168.3	176.5	178.6	202.0	233.0	248.6	275.3	328.7	368.7	374.8
135°	167.7	175.1	182.7	184.5	205.2	232.8	246.6	268.9	313.7	347.2	352.4
137.5°	175.5	182.8	190.3	192.2	210.2	234.2	246.3	265.2	303.0	331.3	335.6
140°	181.9	188.7	195.6	197.3	213.2	234.5	245.1	261.5	294.1	318.6	322.6
142.5°	186.9	193.2	199.5	201.1	215.8	235.3	245.1	259.4	288.1	309.6	313.0
145°	194.5	199.9	205.5	206.9	219.1	235.4	243.5	255.2	278.6	296.2	298.8
147.5°	202.1	207.5	212.8	214.2	224.0	237.0	243.5	252.7	271.2	285.0	287.2
150°	207.0	211.8	216.7	217.9	226.4	237.8	243.5	251.3	266.8	278.6	280.3
152.5°	212.2	215.8	219.5	220.4	228.1	238.3	243.5	250.1	263.5	273.4	274.7
155°	219.8	222.5	225.2	225.9	231.7	239.5	243.5	248.8	259.4	267.3	268.2
157.5°	225.4	228.1	230.7	231.3	235.4	240.7	243.5	247.6	255.8	262.0	262.7
160°	229.3	231.3	233.4	233.8	237.0	241.3	243.5	247.0	254.1	259.4	259.7
162.5°	233.0	234.6	236.1	236.5	238.8	241.9	243.5	246.4	252.4	256.9	257.2
165°	237.2	238.6	240.0	240.3	241.4	242.7	243.5	245.6	249.8	253.0	253.3
167.5°	241.0	241.6	242.3	242.4	243.3	244.5	245.1	246.5	249.3	251.4	251.6
170°	243.5	244.1	244.8	244.9	245.0	245.1	245.1	246.5	249.3	251.4	251.4
172.5°	244.8	244.9	245.1	245.1	245.1	245.1	245.1	246.2	248.4	250.1	249.9
175°	246.6	246.6	246.6	246.6	246.1	245.4	245.1	245.8	247.2	248.3	248.3
177.5°	246.6	246.6	246.6	246.6	246.2	245.7	245.5	246.0	247.2	248.0	247.8
180°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1473.1	1469.0	1473.1	1470.4	1471.7	1467.6	1455.4	1451.3	1455.4	1459.5	1459.5
5°	1490.8	1488.0	1490.8	1490.8	1489.4	1486.7	1473.1	1470.4	1473.1	1474.5	1471.7
7.5°	1496.1	1492.1	1496.1	1493.5	1493.5	1490.8	1477.2	1474.5	1475.8	1479.8	1475.8
10°	1496.1	1492.1	1496.1	1494.9	1493.5	1490.8	1477.2	1471.7	1471.7	1475.8	1471.7
12.5°	1489.4	1486.7	1489.4	1486.7	1486.7	1483.9	1470.4	1464.9	1466.3	1467.6	1462.2
15°	1478.5	1474.5	1478.5	1475.8	1477.2	1473.1	1458.2	1452.7	1452.7	1455.4	1445.9
17.5°	1462.2	1456.8	1462.2	1460.8	1459.5	1456.8	1443.2	1437.8	1436.4	1437.8	1430.9
20°	1443.2	1439.1	1443.2	1441.9	1441.9	1436.4	1422.8	1416.0	1416.0	1416.0	1409.2
22.5°	1413.3	1409.2	1413.3	1416.0	1416.0	1414.6	1402.4	1392.9	1390.2	1390.2	1382.0
25°	1379.3	1375.2	1379.3	1379.3	1377.9	1379.3	1375.2	1369.8	1365.7	1361.6	1353.5
27.5°	1346.7	1344.0	1346.7	1344.0	1346.7	1342.6	1341.3	1339.9	1334.5	1330.4	1319.5
30°	1314.1	1311.4	1314.1	1311.4	1308.6	1305.9	1299.2	1296.4	1301.8	1299.2	1281.5
32.5°	1273.3	1270.6	1273.3	1273.3	1270.6	1270.6	1259.7	1255.7	1257.0	1265.2	1248.8
35°	1231.2	1227.1	1231.2	1229.9	1231.2	1227.1	1220.3	1219.0	1213.5	1223.0	1210.8
37.5°	1182.3	1178.2	1182.3	1182.3	1182.3	1185.0	1179.5	1175.5	1167.3	1179.5	1170.1
40°	1132.0	1126.5	1132.0	1130.6	1132.0	1134.7	1132.0	1129.3	1121.1	1130.6	1122.5
42.5°	1074.9	1073.5	1074.9	1076.3	1076.3	1081.7	1085.8	1080.4	1077.6	1070.8	1076.3
45°	1013.8	1011.1	1013.8	1016.5	1017.8	1020.5	1032.8	1032.8	1028.7	1017.8	1026.0
47.5°	948.5	941.8	948.5	956.7	956.7	960.8	973.0	982.5	975.7	962.2	966.2
50°	879.2	880.6	879.2	884.7	884.7	899.6	909.2	918.6	925.5	909.2	890.1
52.5°	811.3	809.9	811.3	815.4	820.8	827.6	843.9	853.4	864.3	854.8	824.8
55°	743.3	746.1	743.3	744.7	747.4	751.5	775.9	785.5	805.8	793.6	762.4
57.5°	675.4	671.3	675.4	678.1	679.5	683.5	703.9	721.6	733.9	735.1	697.2
60°	596.5	591.2	596.5	608.8	611.5	614.2	633.2	649.5	660.5	664.5	625.1
62.5°	527.2	517.8	527.2	535.4	540.8	547.6	561.2	585.7	595.2	596.5	540.8
65°	453.9	449.8	453.9	470.2	471.5	479.7	494.6	512.3	532.7	530.0	449.8
67.5°	387.3	387.3	387.3	398.2	406.3	410.4	429.4	437.6	463.4	466.1	375.1
70°	326.2	324.8	326.2	334.3	339.7	349.2	366.9	376.4	396.8	403.6	304.4
72.5°	267.7	266.4	267.7	274.5	279.9	288.1	303.1	313.9	331.6	339.7	236.5
75°	216.1	213.4	216.1	221.5	220.2	231.0	243.2	254.1	270.5	275.8	175.3
77.5°	165.8	165.8	165.8	171.2	171.2	182.1	187.5	201.2	210.6	218.8	129.1
80°	123.7	122.3	123.7	125.0	125.0	130.5	140.0	149.5	157.6	157.6	88.3
82.5°	87.0	84.2	87.0	87.0	87.0	89.7	95.2	97.8	103.3	107.4	55.7
85°	54.4	54.4	54.4	55.7	54.4	57.1	58.5	61.2	61.2	58.5	34.0
87.5°	35.3	34.0	35.3	34.0	34.0	32.6	32.6	32.6	31.2	29.9	19.0
90°	6.3	6.3	6.3	6.3	6.3	8.4	11.2	12.6	10.8	7.3	4.7
92.5°	25.2	20.2	25.2	30.2	31.5	44.6	62.1	70.8	62.2	44.9	32.0
95°	87.8	72.7	87.8	102.9	106.7	140.1	184.7	207.0	174.8	110.5	62.2
97.5°	210.4	181.6	210.4	239.2	246.4	267.6	295.7	309.8	256.2	148.8	68.3
100°	303.1	268.8	303.1	337.5	346.1	344.6	342.5	341.4	281.9	162.8	73.5
102.5°	394.4	365.0	394.4	423.7	431.1	404.2	368.3	350.3	290.0	169.2	78.6
105°	510.7	494.9	510.7	526.5	530.5	470.1	389.6	349.4	290.9	173.9	86.2
107.5°	586.8	590.7	586.8	583.1	582.1	497.9	385.7	329.6	278.0	174.8	97.5
110°	615.9	632.4	615.9	599.4	595.3	501.2	375.7	313.0	266.5	173.5	103.7



TEST NUMBER: P934550

CATALOG NUMBER: SQ4-FA-050U-125D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	618.6	643.8	618.6	593.3	586.9	490.6	362.2	297.9	256.5	173.5	111.4
115°	602.1	637.2	602.1	567.0	558.2	465.4	341.7	279.8	244.9	175.1	122.8
117.5°	567.3	606.3	567.3	528.4	518.7	434.9	323.3	267.5	237.8	178.4	133.9
120°	539.3	577.1	539.3	501.6	492.1	415.6	313.5	262.5	235.4	181.1	140.4
122.5°	512.1	549.3	512.1	474.7	465.4	396.5	304.6	258.6	234.1	184.9	148.0
125°	473.0	507.4	473.0	438.8	430.2	371.6	293.6	254.6	233.0	190.0	157.7
127.5°	438.0	467.0	438.0	409.0	401.8	351.6	284.6	251.1	232.5	195.1	167.2
130°	417.5	444.2	417.5	390.7	384.0	339.3	279.6	249.7	232.8	198.9	173.4
132.5°	398.7	422.7	398.7	374.8	368.7	328.7	275.3	248.6	233.0	202.0	178.6
135°	373.1	393.7	373.1	352.4	347.2	313.7	268.9	246.6	232.8	205.2	184.5
137.5°	352.4	369.4	352.4	335.6	331.3	303.0	265.2	246.3	234.2	210.2	192.2
140°	338.4	354.2	338.4	322.6	318.6	294.1	261.5	245.1	234.5	213.2	197.3
142.5°	326.7	340.3	326.7	313.0	309.6	288.1	259.4	245.1	235.3	215.8	201.1
145°	309.2	319.4	309.2	298.8	296.2	278.6	255.2	243.5	235.4	219.1	206.9
147.5°	295.7	304.2	295.7	287.2	285.0	271.2	252.7	243.5	237.0	224.0	214.2
150°	287.2	294.1	287.2	280.3	278.6	266.8	251.3	243.5	237.8	226.4	217.9
152.5°	279.9	285.1	279.9	274.7	273.4	263.5	250.1	243.5	238.3	228.1	220.4
155°	271.7	275.1	271.7	268.2	267.3	259.4	248.8	243.5	239.5	231.7	225.9
157.5°	265.1	267.5	265.1	262.7	262.0	255.8	247.6	243.5	240.7	235.4	231.3
160°	261.1	262.5	261.1	259.7	259.4	254.1	247.0	243.5	241.3	237.0	233.8
162.5°	258.6	259.9	258.6	257.2	256.9	252.4	246.4	243.5	241.9	238.8	236.5
165°	254.8	256.2	254.8	253.3	253.0	249.8	245.6	243.5	242.7	241.4	240.3
167.5°	252.1	252.7	252.1	251.6	251.4	249.3	246.5	245.1	244.5	243.3	242.4
170°	251.4	251.4	251.4	251.4	251.4	249.3	246.5	245.1	245.1	245.0	244.9
172.5°	249.4	248.9	249.4	249.9	250.1	248.4	246.2	245.1	245.1	245.1	245.1
175°	248.3	248.3	248.3	248.3	248.3	247.2	245.8	245.1	245.4	246.1	246.6
177.5°	247.2	246.6	247.2	247.8	248.0	247.2	246.0	245.5	245.7	246.2	246.6
180°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6



TEST NUMBER: P934550
 CATALOG NUMBER: SQ4-FA-050U-125D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1456.8	1448.6	1448.6	1435.0	1429.6	1425.5	1418.7	1398.3	1392.9	1387.5	1395.6
5°	1469.0	1454.1	1443.2	1418.7	1398.3	1390.2	1364.4	1315.5	1282.9	1258.4	1244.8
7.5°	1471.7	1452.7	1432.3	1394.2	1345.3	1323.6	1244.8	1155.1	1130.6	1108.9	1095.3
10°	1469.0	1447.2	1418.7	1361.6	1246.2	1208.1	1129.3	1070.8	1055.9	1051.8	1055.9
12.5°	1459.5	1439.1	1399.7	1304.6	1142.8	1117.1	1070.8	1036.8	1034.2	1040.9	1077.6
15°	1443.2	1424.2	1377.9	1228.5	1085.8	1066.8	1034.2	1021.9	1036.8	1084.5	1194.5
17.5°	1426.9	1405.2	1348.1	1153.8	1042.3	1028.7	1005.6	1030.1	1114.3	1178.2	1214.9
20°	1405.2	1379.3	1314.1	1099.4	1011.1	998.9	987.9	1098.0	1161.9	1185.0	1205.4
22.5°	1379.3	1352.2	1267.9	1061.3	978.5	968.9	975.7	1136.1	1161.9	1178.2	1195.8
25°	1345.3	1322.2	1213.5	1031.5	952.6	941.8	967.5	1132.0	1146.9	1151.0	1186.4
27.5°	1314.1	1284.2	1156.5	1004.2	921.4	917.3	974.4	1114.3	1125.2	1129.3	1167.3
30°	1276.0	1231.2	1092.6	975.7	888.8	887.4	975.7	1092.6	1089.8	1100.8	1138.8
32.5°	1236.6	1152.4	1020.5	940.4	857.5	856.2	966.2	1060.0	1057.2	1072.2	1100.8
35°	1199.9	1091.2	922.7	899.6	818.1	819.5	943.1	1021.9	1023.3	1036.8	1054.5
37.5°	1161.9	1038.2	815.4	854.8	780.0	780.0	911.8	986.6	983.8	987.9	1012.4
40°	1117.1	955.3	720.2	796.3	744.7	740.6	873.8	948.5	939.0	937.7	971.6
42.5°	1069.5	864.3	649.5	718.8	703.9	698.5	827.6	902.3	884.7	888.8	932.2
45°	1017.8	839.9	595.2	607.5	661.8	657.7	777.3	849.3	837.1	848.0	892.9
47.5°	966.2	790.9	577.5	504.2	616.9	615.6	721.6	797.7	790.9	801.8	849.3
50°	895.5	736.5	576.2	432.2	566.7	572.1	655.0	747.4	747.4	756.9	807.2
52.5°	804.5	669.9	523.2	391.4	508.2	524.5	596.5	703.9	706.6	716.2	761.0
55°	721.6	600.6	485.2	360.1	438.9	474.3	539.5	659.1	664.5	674.0	714.8
57.5°	645.5	500.1	477.0	323.4	375.1	409.0	489.2	615.6	618.3	626.5	665.8
60°	563.9	361.5	437.6	284.0	319.4	345.1	443.0	563.9	573.5	578.9	612.8
62.5°	471.5	262.3	396.8	256.8	292.1	297.6	405.0	515.0	527.2	531.3	551.7
65°	335.7	220.2	337.0	233.8	263.6	265.0	364.2	464.8	475.6	482.4	497.4
67.5°	226.9	179.4	256.8	212.0	241.9	243.2	324.8	406.3	421.3	426.7	436.2
70°	157.6	119.6	190.2	188.9	217.5	220.2	282.7	353.3	366.9	371.0	376.4
72.5°	115.5	96.5	157.6	169.8	191.6	194.3	239.1	293.5	307.1	311.2	313.9
75°	88.3	101.9	127.8	148.2	163.1	164.5	195.7	239.1	248.7	251.4	252.8
77.5°	70.7	95.2	93.8	119.6	133.1	130.5	153.5	184.9	193.0	193.0	193.0
80°	53.0	74.8	70.7	85.6	97.8	95.2	110.1	131.9	134.5	137.2	135.9
82.5°	39.4	47.5	47.5	54.4	65.2	62.5	73.4	85.6	85.6	85.6	88.3
85°	24.5	27.1	21.8	28.5	36.7	35.3	40.8	46.2	47.5	47.5	44.8
87.5°	14.9	12.2	6.8	10.8	16.3	16.3	19.0	20.4	19.0	19.0	19.0
90°	4.3	3.0	1.7	3.0	4.3	4.7	7.3	10.8	12.6	11.2	8.4
92.5°	29.1	17.8	6.6	17.8	29.1	32.0	44.9	62.2	70.8	62.1	44.6
95°	57.1	36.5	15.9	36.5	57.1	62.2	110.5	174.8	207.0	184.7	140.1
97.5°	63.8	45.6	27.5	45.6	63.8	68.3	148.8	256.2	309.8	295.7	267.6
100°	69.4	52.8	36.4	52.8	69.4	73.5	162.8	281.9	341.4	342.5	344.6
102.5°	74.8	59.4	44.0	59.4	74.8	78.6	169.2	290.0	350.3	368.3	404.2
105°	82.9	69.9	56.9	69.9	82.9	86.2	173.9	290.9	349.4	389.6	470.1
107.5°	94.4	82.3	70.2	82.3	94.4	97.5	174.8	278.0	329.6	385.7	497.9
110°	101.0	90.0	79.1	90.0	101.0	103.7	173.5	266.5	313.0	375.7	501.2



TEST NUMBER: P934550

CATALOG NUMBER: SQ4-FA-050U-125D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	108.7	98.3	87.8	98.3	108.7	111.4	173.5	256.5	297.9	362.2	490.6
115°	120.4	110.7	101.1	110.7	120.4	122.8	175.1	244.9	279.8	341.7	465.4
117.5°	131.7	122.9	114.2	122.9	131.7	133.9	178.4	237.8	267.5	323.3	434.9
120°	138.3	130.1	121.8	130.1	138.3	140.4	181.1	235.4	262.5	313.5	415.6
122.5°	145.9	137.6	129.3	137.6	145.9	148.0	184.9	234.1	258.6	304.6	396.5
125°	155.8	148.2	140.7	148.2	155.8	157.7	190.0	233.0	254.6	293.6	371.6
127.5°	165.3	157.6	149.9	157.6	165.3	167.2	195.1	232.5	251.1	284.6	351.6
130°	171.4	163.2	154.9	163.2	171.4	173.4	198.9	232.8	249.7	279.6	339.3
132.5°	176.5	168.3	160.0	168.3	176.5	178.6	202.0	233.0	248.6	275.3	328.7
135°	182.7	175.1	167.7	175.1	182.7	184.5	205.2	232.8	246.6	268.9	313.7
137.5°	190.3	182.8	175.5	182.8	190.3	192.2	210.2	234.2	246.3	265.2	303.0
140°	195.6	188.7	181.9	188.7	195.6	197.3	213.2	234.5	245.1	261.5	294.1
142.5°	199.5	193.2	186.9	193.2	199.5	201.1	215.8	235.3	245.1	259.4	288.1
145°	205.5	199.9	194.5	199.9	205.5	206.9	219.1	235.4	243.5	255.2	278.6
147.5°	212.8	207.5	202.1	207.5	212.8	214.2	224.0	237.0	243.5	252.7	271.2
150°	216.7	211.8	207.0	211.8	216.7	217.9	226.4	237.8	243.5	251.3	266.8
152.5°	219.5	215.8	212.2	215.8	219.5	220.4	228.1	238.3	243.5	250.1	263.5
155°	225.2	222.5	219.8	222.5	225.2	225.9	231.7	239.5	243.5	248.8	259.4
157.5°	230.7	228.1	225.4	228.1	230.7	231.3	235.4	240.7	243.5	247.6	255.8
160°	233.4	231.3	229.3	231.3	233.4	233.8	237.0	241.3	243.5	247.0	254.1
162.5°	236.1	234.6	233.0	234.6	236.1	236.5	238.8	241.9	243.5	246.4	252.4
165°	240.0	238.6	237.2	238.6	240.0	240.3	241.4	242.7	243.5	245.6	249.8
167.5°	242.3	241.6	241.0	241.6	242.3	242.4	243.3	244.5	245.1	246.5	249.3
170°	244.8	244.1	243.5	244.1	244.8	244.9	245.0	245.1	245.1	246.5	249.3
172.5°	245.1	244.9	244.8	244.9	245.1	245.1	245.1	245.1	245.1	246.2	248.4
175°	246.6	246.6	246.6	246.6	246.6	246.6	246.1	245.4	245.1	245.8	247.2
177.5°	246.6	246.6	246.6	246.6	246.6	246.6	246.2	245.7	245.5	246.0	247.2
180°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6



TEST NUMBER: P934550
 CATALOG NUMBER: SQ4-FA-050U-125D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1386.1	1382.0	1387.5	1372.5	1387.5	1382.0	1386.1	1395.6	1387.5	1392.9	1398.3
5°	1216.2	1209.5	1187.7	1170.1	1187.7	1209.5	1216.2	1244.8	1258.4	1282.9	1315.5
7.5°	1087.2	1081.7	1076.3	1065.4	1076.3	1081.7	1087.2	1095.3	1108.9	1130.6	1155.1
10°	1058.6	1060.0	1068.2	1066.8	1068.2	1060.0	1058.6	1055.9	1051.8	1055.9	1070.8
12.5°	1132.0	1144.2	1189.1	1186.4	1189.1	1144.2	1132.0	1077.6	1040.9	1034.2	1036.8
15°	1216.2	1220.3	1229.9	1231.2	1229.9	1220.3	1216.2	1194.5	1084.5	1036.8	1021.9
17.5°	1224.4	1225.8	1232.5	1232.5	1232.5	1225.8	1224.4	1214.9	1178.2	1114.3	1030.1
20°	1217.6	1220.3	1233.9	1236.6	1233.9	1220.3	1217.6	1205.4	1185.0	1161.9	1098.0
22.5°	1214.9	1220.3	1231.2	1229.9	1231.2	1220.3	1214.9	1195.8	1178.2	1161.9	1136.1
25°	1201.3	1201.3	1202.7	1204.0	1202.7	1201.3	1201.3	1186.4	1151.0	1146.9	1132.0
27.5°	1172.8	1175.5	1183.6	1182.3	1183.6	1175.5	1172.8	1167.3	1129.3	1125.2	1114.3
30°	1146.9	1144.2	1137.4	1132.0	1137.4	1144.2	1146.9	1138.8	1100.8	1089.8	1092.6
32.5°	1103.5	1096.7	1089.8	1085.8	1089.8	1096.7	1103.5	1100.8	1072.2	1057.2	1060.0
35°	1051.8	1053.1	1051.8	1047.8	1051.8	1053.1	1051.8	1054.5	1036.8	1023.3	1021.9
37.5°	1015.2	1017.8	1016.5	1011.1	1016.5	1017.8	1015.2	1012.4	987.9	983.8	986.6
40°	977.1	978.5	977.1	973.0	977.1	978.5	977.1	971.6	937.7	939.0	948.5
42.5°	940.4	939.0	934.9	932.2	934.9	939.0	940.4	932.2	888.8	884.7	902.3
45°	898.2	899.6	891.5	887.4	891.5	899.6	898.2	892.9	848.0	837.1	849.3
47.5°	856.2	856.2	849.3	845.2	849.3	856.2	856.2	849.3	801.8	790.9	797.7
50°	811.3	809.9	800.4	799.1	800.4	809.9	811.3	807.2	756.9	747.4	747.4
52.5°	759.6	759.6	761.0	763.7	761.0	759.6	759.6	761.0	716.2	706.6	703.9
55°	714.8	716.2	725.7	728.4	725.7	716.2	714.8	714.8	674.0	664.5	659.1
57.5°	668.6	668.6	675.4	675.4	675.4	668.6	668.6	665.8	626.5	618.3	615.6
60°	615.6	618.3	623.8	622.4	623.8	618.3	615.6	612.8	578.9	573.5	563.9
62.5°	559.9	562.6	563.9	561.2	563.9	562.6	559.9	551.7	531.3	527.2	515.0
65°	501.5	504.2	505.5	502.8	505.5	504.2	501.5	497.4	482.4	475.6	464.8
67.5°	441.6	440.3	438.9	444.4	438.9	440.3	441.6	436.2	426.7	421.3	406.3
70°	380.5	380.5	379.2	381.8	379.2	380.5	380.5	376.4	371.0	366.9	353.3
72.5°	315.3	313.9	319.4	315.3	319.4	313.9	315.3	313.9	311.2	307.1	293.5
75°	251.4	254.1	251.4	255.5	251.4	254.1	251.4	252.8	251.4	248.7	239.1
77.5°	191.6	194.3	191.6	191.6	191.6	194.3	191.6	193.0	193.0	193.0	184.9
80°	135.9	134.5	134.5	133.1	134.5	134.5	135.9	135.9	137.2	134.5	131.9
82.5°	87.0	85.6	85.6	88.3	85.6	85.6	87.0	88.3	85.6	85.6	85.6
85°	47.5	48.9	46.2	46.2	46.2	48.9	47.5	44.8	47.5	47.5	46.2
87.5°	17.7	16.3	16.3	16.3	16.3	16.3	17.7	19.0	19.0	19.0	20.4
90°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.4	11.2	12.6	10.8
92.5°	31.5	30.2	25.2	20.2	25.2	30.2	31.5	44.6	62.1	70.8	62.2
95°	106.7	102.9	87.8	72.7	87.8	102.9	106.7	140.1	184.7	207.0	174.8
97.5°	246.4	239.2	210.4	181.6	210.4	239.2	246.4	267.6	295.7	309.8	256.2
100°	346.1	337.5	303.1	268.8	303.1	337.5	346.1	344.6	342.5	341.4	281.9
102.5°	431.1	423.7	394.4	365.0	394.4	423.7	431.1	404.2	368.3	350.3	290.0
105°	530.5	526.5	510.7	494.9	510.7	526.5	530.5	470.1	389.6	349.4	290.9
107.5°	582.1	583.1	586.8	590.7	586.8	583.1	582.1	497.9	385.7	329.6	278.0
110°	595.3	599.4	615.9	632.4	615.9	599.4	595.3	501.2	375.7	313.0	266.5



TEST NUMBER: P934550

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	586.9	593.3	618.6	643.8	618.6	593.3	586.9	490.6	362.2	297.9	256.5
115°	558.2	567.0	602.1	637.2	602.1	567.0	558.2	465.4	341.7	279.8	244.9
117.5°	518.7	528.4	567.3	606.3	567.3	528.4	518.7	434.9	323.3	267.5	237.8
120°	492.1	501.6	539.3	577.1	539.3	501.6	492.1	415.6	313.5	262.5	235.4
122.5°	465.4	474.7	512.1	549.3	512.1	474.7	465.4	396.5	304.6	258.6	234.1
125°	430.2	438.8	473.0	507.4	473.0	438.8	430.2	371.6	293.6	254.6	233.0
127.5°	401.8	409.0	438.0	467.0	438.0	409.0	401.8	351.6	284.6	251.1	232.5
130°	384.0	390.7	417.5	444.2	417.5	390.7	384.0	339.3	279.6	249.7	232.8
132.5°	368.7	374.8	398.7	422.7	398.7	374.8	368.7	328.7	275.3	248.6	233.0
135°	347.2	352.4	373.1	393.7	373.1	352.4	347.2	313.7	268.9	246.6	232.8
137.5°	331.3	335.6	352.4	369.4	352.4	335.6	331.3	303.0	265.2	246.3	234.2
140°	318.6	322.6	338.4	354.2	338.4	322.6	318.6	294.1	261.5	245.1	234.5
142.5°	309.6	313.0	326.7	340.3	326.7	313.0	309.6	288.1	259.4	245.1	235.3
145°	296.2	298.8	309.2	319.4	309.2	298.8	296.2	278.6	255.2	243.5	235.4
147.5°	285.0	287.2	295.7	304.2	295.7	287.2	285.0	271.2	252.7	243.5	237.0
150°	278.6	280.3	287.2	294.1	287.2	280.3	278.6	266.8	251.3	243.5	237.8
152.5°	273.4	274.7	279.9	285.1	279.9	274.7	273.4	263.5	250.1	243.5	238.3
155°	267.3	268.2	271.7	275.1	271.7	268.2	267.3	259.4	248.8	243.5	239.5
157.5°	262.0	262.7	265.1	267.5	265.1	262.7	262.0	255.8	247.6	243.5	240.7
160°	259.4	259.7	261.1	262.5	261.1	259.7	259.4	254.1	247.0	243.5	241.3
162.5°	256.9	257.2	258.6	259.9	258.6	257.2	256.9	252.4	246.4	243.5	241.9
165°	253.0	253.3	254.8	256.2	254.8	253.3	253.0	249.8	245.6	243.5	242.7
167.5°	251.4	251.6	252.1	252.7	252.1	251.6	251.4	249.3	246.5	245.1	244.5
170°	251.4	251.4	251.4	251.4	251.4	251.4	251.4	249.3	246.5	245.1	245.1
172.5°	250.1	249.9	249.4	248.9	249.4	249.9	250.1	248.4	246.2	245.1	245.1
175°	248.3	248.3	248.3	248.3	248.3	248.3	248.3	247.2	245.8	245.1	245.4
177.5°	248.0	247.8	247.2	246.6	247.2	247.8	248.0	247.2	246.0	245.5	245.7
180°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6



TEST NUMBER: P934550
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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1418.7	1425.5	1429.6	1435.0	1448.6
5°	1364.4	1390.2	1398.3	1418.7	1443.2
7.5°	1244.8	1323.6	1345.3	1394.2	1432.3
10°	1129.3	1208.1	1246.2	1361.6	1418.7
12.5°	1070.8	1117.1	1142.8	1304.6	1399.7
15°	1034.2	1066.8	1085.8	1228.5	1377.9
17.5°	1005.6	1028.7	1042.3	1153.8	1348.1
20°	987.9	998.9	1011.1	1099.4	1314.1
22.5°	975.7	968.9	978.5	1061.3	1267.9
25°	967.5	941.8	952.6	1031.5	1213.5
27.5°	974.4	917.3	921.4	1004.2	1156.5
30°	975.7	887.4	888.8	975.7	1092.6
32.5°	966.2	856.2	857.5	940.4	1020.5
35°	943.1	819.5	818.1	899.6	922.7
37.5°	911.8	780.0	780.0	854.8	815.4
40°	873.8	740.6	744.7	796.3	720.2
42.5°	827.6	698.5	703.9	718.8	649.5
45°	777.3	657.7	661.8	607.5	595.2
47.5°	721.6	615.6	616.9	504.2	577.5
50°	655.0	572.1	566.7	432.2	576.2
52.5°	596.5	524.5	508.2	391.4	523.2
55°	539.5	474.3	438.9	360.1	485.2
57.5°	489.2	409.0	375.1	323.4	477.0
60°	443.0	345.1	319.4	284.0	437.6
62.5°	405.0	297.6	292.1	256.8	396.8
65°	364.2	265.0	263.6	233.8	337.0
67.5°	324.8	243.2	241.9	212.0	256.8
70°	282.7	220.2	217.5	188.9	190.2
72.5°	239.1	194.3	191.6	169.8	157.6
75°	195.7	164.5	163.1	148.2	127.8
77.5°	153.5	130.5	133.1	119.6	93.8
80°	110.1	95.2	97.8	85.6	70.7
82.5°	73.4	62.5	65.2	54.4	47.5
85°	40.8	35.3	36.7	28.5	21.8
87.5°	19.0	16.3	16.3	10.8	6.8
90°	7.3	4.7	4.3	3.0	1.7
92.5°	44.9	32.0	29.1	17.8	6.6
95°	110.5	62.2	57.1	36.5	15.9
97.5°	148.8	68.3	63.8	45.6	27.5
100°	162.8	73.5	69.4	52.8	36.4
102.5°	169.2	78.6	74.8	59.4	44.0
105°	173.9	86.2	82.9	69.9	56.9
107.5°	174.8	97.5	94.4	82.3	70.2
110°	173.5	103.7	101.0	90.0	79.1



TEST NUMBER: P934550

CATALOG NUMBER: SQ4-FA-050U-125D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	173.5	111.4	108.7	98.3	87.8
115°	175.1	122.8	120.4	110.7	101.1
117.5°	178.4	133.9	131.7	122.9	114.2
120°	181.1	140.4	138.3	130.1	121.8
122.5°	184.9	148.0	145.9	137.6	129.3
125°	190.0	157.7	155.8	148.2	140.7
127.5°	195.1	167.2	165.3	157.6	149.9
130°	198.9	173.4	171.4	163.2	154.9
132.5°	202.0	178.6	176.5	168.3	160.0
135°	205.2	184.5	182.7	175.1	167.7
137.5°	210.2	192.2	190.3	182.8	175.5
140°	213.2	197.3	195.6	188.7	181.9
142.5°	215.8	201.1	199.5	193.2	186.9
145°	219.1	206.9	205.5	199.9	194.5
147.5°	224.0	214.2	212.8	207.5	202.1
150°	226.4	217.9	216.7	211.8	207.0
152.5°	228.1	220.4	219.5	215.8	212.2
155°	231.7	225.9	225.2	222.5	219.8
157.5°	235.4	231.3	230.7	228.1	225.4
160°	237.0	233.8	233.4	231.3	229.3
162.5°	238.8	236.5	236.1	234.6	233.0
165°	241.4	240.3	240.0	238.6	237.2
167.5°	243.3	242.4	242.3	241.6	241.0
170°	245.0	244.9	244.8	244.1	243.5
172.5°	245.1	245.1	245.1	244.9	244.8
175°	246.1	246.6	246.6	246.6	246.6
177.5°	246.2	246.6	246.6	246.6	246.6
180°	246.6	246.6	246.6	246.6	246.6



TEST NUMBER: P934550
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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	15.46	16.53	16.22	17.32	18.27	18.26	19.33	19.02	20.12	21.07
	3H	15.95	16.92	16.73	17.71	18.70	19.61	20.57	20.39	21.37	22.35
	4H	16.15	17.06	16.95	17.87	18.86	20.06	20.97	20.85	21.77	22.77
	6H	16.28	17.12	17.09	17.94	18.95	20.34	21.18	21.15	22.00	23.01
	8H	16.29	17.09	17.11	17.92	18.93	20.42	21.22	21.24	22.05	23.06
	12H	16.27	17.03	17.09	17.86	18.90	20.46	21.22	21.29	22.05	23.09
4H	2H	16.51	17.42	17.31	18.23	19.22	18.69	19.60	19.49	20.41	21.40
	3H	17.56	18.31	18.37	19.15	20.17	20.21	20.97	21.02	21.81	22.82
	4H	17.84	18.53	18.67	19.37	20.41	20.74	21.43	21.57	22.27	23.31
	6H	17.98	18.58	18.82	19.44	20.48	21.11	21.71	21.95	22.57	23.61
	8H	17.99	18.55	18.84	19.40	20.46	21.22	21.77	22.06	22.63	23.69
	12H	17.97	18.47	18.83	19.35	20.41	21.28	21.78	22.14	22.66	23.72
8H	4H	18.31	18.86	19.15	19.72	20.78	20.88	21.44	21.73	22.30	23.35
	6H	18.58	19.04	19.45	19.94	21.00	21.32	21.78	22.19	22.68	23.74
	8H	18.62	19.03	19.51	19.93	21.00	21.47	21.88	22.35	22.77	23.85
	12H	18.62	18.98	19.50	19.86	20.99	21.57	21.93	22.46	22.82	23.95
12H	4H	18.32	18.82	19.19	19.70	20.77	20.86	21.36	21.72	22.24	23.30
	6H	18.64	19.05	19.52	19.94	21.02	21.32	21.73	22.20	22.62	23.70
	8H	18.71	19.08	19.60	19.96	21.09	21.48	21.85	22.37	22.73	23.86