

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: P933975

Luminaire Tested: SQ4-FA-025U-075D-940-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933975
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

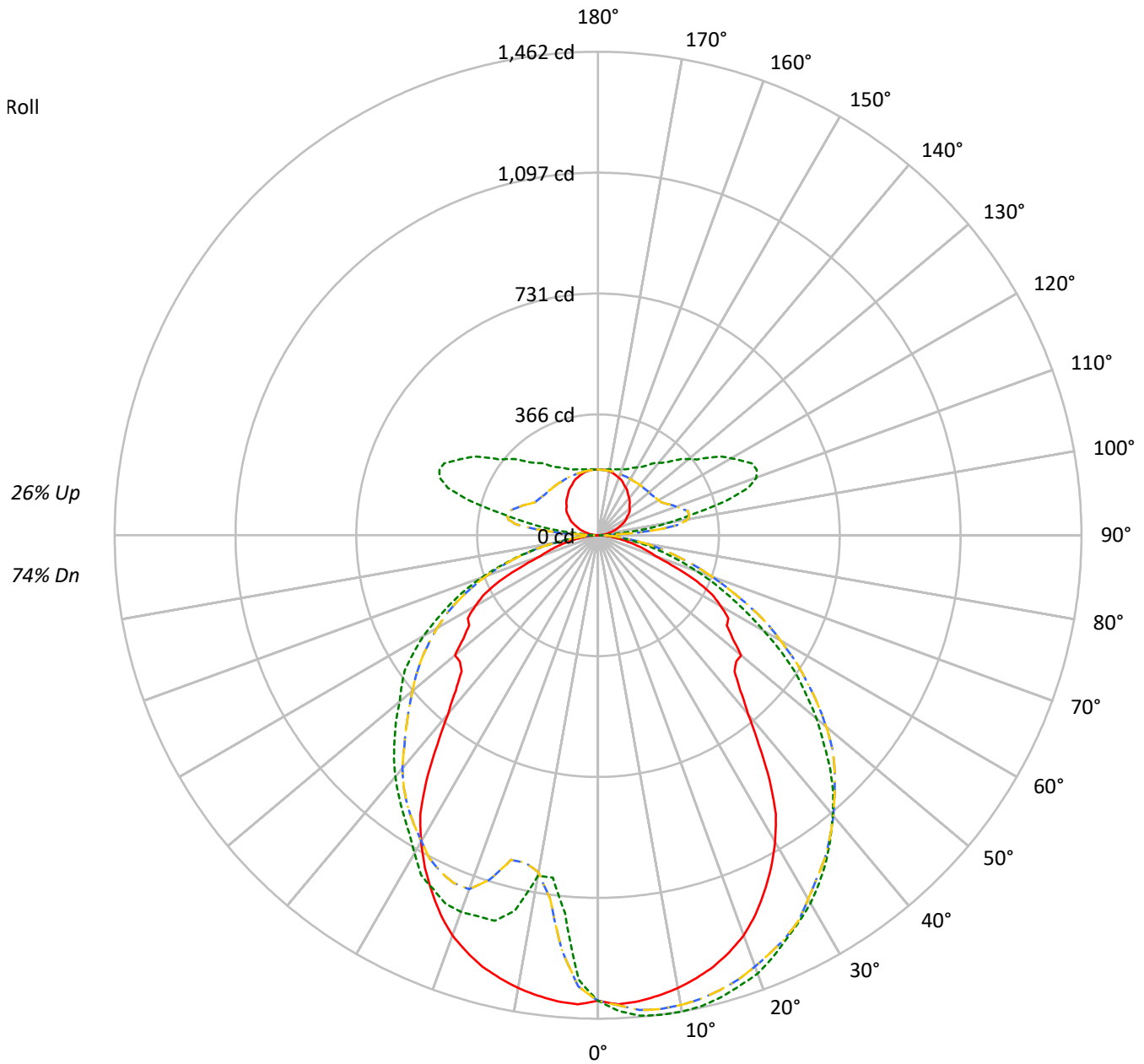
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4939.9 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74			
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62			
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52			
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44			
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38			
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33			
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29			
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26			
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23			
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21			
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8709	8709	8709	8709
5°	8772	8792	8772	6913
10°	8710	8660	8710	6192
15°	8611	8473	8611	7075
20°	8428	8251	8428	7090
25°	8057	7926	8057	6940
30°	7577	7657	7577	6610
35°	6751	7317	6751	6247
40°	5623	6916	5623	5973
45°	5020	6447	5020	5658
50°	5330	5887	5330	5342
55°	5009	5285	5009	5160
60°	5158	4488	5158	4726
65°	4668	3710	4668	4147
70°	3226	2956	3226	3476
75°	2817	2185	2817	2617
80°	2256	1445	2256	1573
85°	1270	766	1270	651

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7700 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	2.6
10°-20°	360.8	7.3
20°-30°	557.8	11.3
30°-40°	665.9	13.5
40°-50°	669.8	13.6
50°-60°	582.8	11.8
60°-70°	413.2	8.4
70°-80°	218.6	4.4
80°-90°	55.2	1.1
90°-100°	96.9	2.0
100°-110°	254.7	5.2
110°-120°	264.1	5.3
120°-130°	211.9	4.3
130°-140°	166.3	3.4
140°-150°	127.6	2.6
150°-160°	91.9	1.9
160°-170°	56.2	1.1
170°-180°	19.0	0.4
0°-30°	1045.7	21.2
0°-40°	1711.6	34.6
0°-60°	2964.2	60.0
0°-90°	3651.2	73.9
90°-120°	615.8	12.5
90°-150°	1121.5	22.7
90°-180°	1289.0	26.1
0°-180°	4939.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1408	1408	1408	1408	1408	
5°	1415	1458	1415	1147	1415	134
15°	1351	1445	1351	1207	1351	380
25°	1190	1348	1190	1180	1190	546
35°	904	1203	904	1027	904	560
45°	583	991	583	870	583	467
55°	476	731	476	714	476	437
65°	330	441	330	493	330	316
75°	125	209	125	250	125	132
85°	21	53	21	45	21	29
90°	1	5	1	5	1	2
95°	13	59	13	59	13	14
105°	46	399	46	399	46	49
115°	82	514	82	514	82	81
125°	113	409	113	409	113	101
135°	135	317	135	317	135	105
145°	157	258	157	258	157	98
155°	177	222	177	222	177	81
165°	191	206	191	206	191	54
175°	199	200	199	200	199	19
180°	199	199	199	199	199	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
2.5°	1419.9	1419.9	1427.9	1430.6	1430.6	1426.6	1422.6	1426.6	1438.6	1442.6	1441.2
5°	1414.6	1425.2	1439.9	1442.6	1445.2	1443.9	1441.2	1443.9	1457.2	1459.9	1461.2
7.5°	1403.9	1423.9	1442.6	1446.6	1450.5	1446.6	1445.2	1447.9	1461.2	1463.9	1463.9
10°	1390.6	1418.6	1439.9	1442.6	1446.6	1442.6	1442.6	1447.9	1461.2	1463.9	1465.2
12.5°	1372.0	1410.6	1430.6	1433.2	1438.6	1437.2	1435.9	1441.2	1454.5	1457.2	1457.2
15°	1350.6	1395.9	1414.6	1417.2	1426.6	1423.9	1423.9	1429.2	1443.9	1447.9	1446.6
17.5°	1321.3	1377.3	1398.6	1402.6	1409.3	1407.9	1409.3	1414.6	1427.9	1430.6	1431.9
20°	1288.0	1352.0	1377.3	1381.3	1387.9	1387.9	1387.9	1394.6	1407.9	1413.3	1413.3
22.5°	1242.8	1325.3	1352.0	1354.6	1362.6	1362.6	1365.3	1374.6	1386.6	1387.9	1387.9
25°	1189.5	1296.0	1318.7	1326.7	1334.7	1338.7	1342.7	1348.0	1352.0	1350.6	1352.0
27.5°	1133.5	1258.7	1288.0	1293.4	1304.0	1308.0	1313.4	1314.7	1316.0	1320.0	1317.3
30°	1070.9	1206.8	1250.7	1256.1	1273.4	1276.1	1270.7	1273.4	1280.1	1282.7	1285.4
32.5°	1000.3	1129.5	1212.1	1224.1	1240.1	1232.1	1230.8	1234.8	1245.4	1245.4	1248.1
35°	904.4	1069.6	1176.2	1186.8	1198.8	1189.5	1194.8	1196.1	1202.8	1206.8	1205.5
37.5°	799.2	1017.6	1138.9	1146.9	1156.2	1144.2	1152.2	1156.2	1161.5	1158.8	1158.8
40°	706.0	936.4	1094.9	1100.2	1108.2	1098.9	1106.9	1109.6	1112.2	1109.6	1108.2
42.5°	636.7	847.2	1048.3	1054.9	1049.6	1056.3	1058.9	1064.3	1060.3	1054.9	1054.9
45°	583.4	823.2	997.7	1005.7	997.7	1008.3	1012.3	1012.3	1000.3	997.7	996.3
47.5°	566.1	775.2	947.1	947.1	943.1	956.4	963.0	953.7	941.7	937.7	937.7
50°	564.8	721.9	877.8	872.5	891.1	907.1	900.4	891.1	881.8	867.1	867.1
52.5°	512.8	656.7	788.5	808.5	837.8	847.2	836.5	827.2	811.2	804.5	799.2
55°	475.5	588.7	707.3	747.3	777.9	789.9	769.9	760.6	736.6	732.6	729.9
57.5°	467.5	490.2	632.7	683.3	720.6	719.3	707.3	690.0	670.0	666.0	664.7
60°	428.9	354.3	552.8	612.7	651.3	647.4	636.7	620.7	602.1	599.4	596.7
62.5°	388.9	257.1	462.2	530.1	584.7	583.4	574.1	550.1	536.8	530.1	524.8
65°	330.3	215.8	329.0	440.9	519.5	522.1	502.2	484.8	470.2	462.2	460.9
67.5°	251.7	175.8	222.4	367.6	456.9	454.2	428.9	420.9	402.3	398.3	390.3
70°	186.5	117.2	154.5	298.4	395.6	388.9	369.0	359.6	342.3	333.0	327.7
72.5°	154.5	94.6	113.2	231.8	333.0	325.0	307.7	297.0	282.4	274.4	269.1
75°	125.2	99.9	86.6	171.8	270.4	265.1	249.1	238.4	226.4	215.8	217.1
77.5°	91.9	93.2	69.3	126.5	214.5	206.5	197.1	183.8	178.5	167.8	167.8
80°	69.3	73.3	51.9	86.6	154.5	154.5	146.5	137.2	127.9	122.5	122.5
82.5°	46.6	46.6	38.6	54.6	105.2	101.2	95.9	93.2	87.9	85.2	85.2
85°	21.3	26.6	24.0	33.3	57.3	59.9	59.9	57.3	55.9	53.3	54.6
87.5°	6.7	12.0	14.7	18.6	29.3	30.6	32.0	32.0	32.0	33.3	33.3
90°	1.3	2.4	3.5	3.7	5.9	8.7	10.1	9.0	6.7	5.1	5.1
92.5°	5.3	14.4	23.4	25.8	36.2	50.2	57.1	50.0	35.9	25.3	24.3
95°	12.8	29.4	46.0	50.2	89.1	140.9	166.9	148.9	113.0	86.0	83.0
97.5°	22.1	36.8	51.4	55.1	120.0	206.5	249.7	238.3	215.7	198.6	192.9
100°	29.4	42.6	55.9	59.2	131.2	227.2	275.2	276.0	277.7	278.9	272.0
102.5°	35.5	48.0	60.3	63.4	136.4	233.7	282.4	296.9	325.8	347.6	341.6
105°	45.9	56.4	66.9	69.5	140.2	234.4	281.6	314.0	378.9	427.6	424.4
107.5°	56.6	66.3	76.1	78.6	140.9	224.0	265.6	310.9	401.4	469.2	470.0
110°	63.8	72.6	81.4	83.6	139.9	214.8	252.3	302.9	404.0	479.9	483.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	70.9	79.3	87.6	89.8	139.9	206.7	240.1	291.9	395.4	473.0	478.1
115°	81.5	89.3	97.1	99.0	141.2	197.4	225.6	275.5	375.2	449.9	457.1
117.5°	92.1	99.1	106.1	107.9	143.8	191.6	215.6	260.6	350.6	418.1	425.9
120°	98.2	104.9	111.4	113.1	146.0	189.8	211.6	252.7	335.0	396.7	404.3
122.5°	104.2	110.9	117.6	119.3	149.0	188.7	208.5	245.5	319.6	375.2	382.7
125°	113.4	119.5	125.7	127.2	153.2	187.9	205.2	236.7	299.6	346.8	353.7
127.5°	120.9	127.0	133.2	134.7	157.3	187.4	202.4	229.4	283.4	323.9	329.8
130°	124.9	131.5	138.1	139.8	160.3	187.6	201.3	225.4	273.4	309.5	314.9
132.5°	129.0	135.7	142.3	143.9	162.8	187.9	200.4	221.9	265.0	297.2	302.0
135°	135.2	141.2	147.2	148.7	165.4	187.7	198.8	216.8	252.9	279.9	284.1
137.5°	141.5	147.4	153.4	154.9	169.4	188.9	198.6	213.8	244.3	267.1	270.5
140°	146.6	152.1	157.6	159.0	171.9	189.1	197.6	210.7	237.1	256.8	260.0
142.5°	150.6	155.7	160.8	162.1	173.9	189.7	197.6	209.1	232.3	249.6	252.4
145°	156.7	161.2	165.6	166.8	176.6	189.7	196.2	205.7	224.6	238.8	240.8
147.5°	162.9	167.2	171.6	172.6	180.5	191.0	196.2	203.7	218.5	229.7	231.4
150°	166.9	170.8	174.8	175.7	182.6	191.7	196.2	202.6	215.1	224.5	225.9
152.5°	171.0	174.0	177.0	177.7	183.9	192.2	196.2	201.6	212.3	220.4	221.5
155°	177.2	179.4	181.6	182.1	186.8	193.1	196.2	200.5	209.0	215.4	216.1
157.5°	181.7	183.8	185.9	186.5	189.8	194.1	196.2	199.5	206.2	211.2	211.7
160°	184.8	186.5	188.1	188.5	191.1	194.6	196.2	199.1	204.8	209.0	209.3
162.5°	187.8	189.1	190.3	190.7	192.5	195.0	196.2	198.6	203.4	207.1	207.3
165°	191.2	192.3	193.4	193.7	194.6	195.7	196.2	197.9	201.4	204.0	204.2
167.5°	194.2	194.7	195.3	195.4	196.2	197.1	197.6	198.7	201.0	202.6	202.7
170°	196.2	196.8	197.3	197.4	197.5	197.6	197.6	198.7	201.0	202.6	202.6
172.5°	197.3	197.4	197.6	197.6	197.6	197.6	197.6	198.5	200.2	201.6	201.5
175°	198.8	198.8	198.8	198.8	198.4	197.8	197.6	198.1	199.3	200.2	200.2
177.5°	198.8	198.8	198.8	198.8	198.5	198.0	197.8	198.3	199.2	199.9	199.8
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
2.5°	1443.9	1439.9	1443.9	1441.2	1442.6	1438.6	1426.6	1422.6	1426.6	1430.6	1430.6
5°	1461.2	1458.5	1461.2	1461.2	1459.9	1457.2	1443.9	1441.2	1443.9	1445.2	1442.6
7.5°	1466.5	1462.5	1466.5	1463.9	1463.9	1461.2	1447.9	1445.2	1446.6	1450.5	1446.6
10°	1466.5	1462.5	1466.5	1465.2	1463.9	1461.2	1447.9	1442.6	1442.6	1446.6	1442.6
12.5°	1459.9	1457.2	1459.9	1457.2	1457.2	1454.5	1441.2	1435.9	1437.2	1438.6	1433.2
15°	1449.2	1445.2	1449.2	1446.6	1447.9	1443.9	1429.2	1423.9	1423.9	1426.6	1417.2
17.5°	1433.2	1427.9	1433.2	1431.9	1430.6	1427.9	1414.6	1409.3	1407.9	1409.3	1402.6
20°	1414.6	1410.6	1414.6	1413.3	1413.3	1407.9	1394.6	1387.9	1387.9	1387.9	1381.3
22.5°	1385.3	1381.3	1385.3	1387.9	1387.9	1386.6	1374.6	1365.3	1362.6	1362.6	1354.6
25°	1352.0	1348.0	1352.0	1352.0	1350.6	1352.0	1348.0	1342.7	1338.7	1334.7	1326.7
27.5°	1320.0	1317.3	1320.0	1317.3	1320.0	1316.0	1314.7	1313.4	1308.0	1304.0	1293.4
30°	1288.0	1285.4	1288.0	1285.4	1282.7	1280.1	1273.4	1270.7	1276.1	1273.4	1256.1
32.5°	1248.1	1245.4	1248.1	1248.1	1245.4	1245.4	1234.8	1230.8	1232.1	1240.1	1224.1
35°	1206.8	1202.8	1206.8	1205.5	1206.8	1202.8	1196.1	1194.8	1189.5	1198.8	1186.8
37.5°	1158.8	1154.8	1158.8	1158.8	1158.8	1161.5	1156.2	1152.2	1144.2	1156.2	1146.9
40°	1109.6	1104.2	1109.6	1108.2	1109.6	1112.2	1109.6	1106.9	1098.9	1108.2	1100.2
42.5°	1053.6	1052.3	1053.6	1054.9	1054.9	1060.3	1064.3	1058.9	1056.3	1049.6	1054.9
45°	993.7	991.0	993.7	996.3	997.7	1000.3	1012.3	1012.3	1008.3	997.7	1005.7
47.5°	929.7	923.1	929.7	937.7	937.7	941.7	953.7	963.0	956.4	943.1	947.1
50°	861.8	863.1	861.8	867.1	867.1	881.8	891.1	900.4	907.1	891.1	872.5
52.5°	795.2	793.9	795.2	799.2	804.5	811.2	827.2	836.5	847.2	837.8	808.5
55°	728.6	731.3	728.6	729.9	732.6	736.6	760.6	769.9	789.9	777.9	747.3
57.5°	662.0	658.0	662.0	664.7	666.0	670.0	690.0	707.3	719.3	720.6	683.3
60°	584.7	579.4	584.7	596.7	599.4	602.1	620.7	636.7	647.4	651.3	612.7
62.5°	516.8	507.5	516.8	524.8	530.1	536.8	550.1	574.1	583.4	584.7	530.1
65°	444.9	440.9	444.9	460.9	462.2	470.2	484.8	502.2	522.1	519.5	440.9
67.5°	379.6	379.6	379.6	390.3	398.3	402.3	420.9	428.9	454.2	456.9	367.6
70°	319.7	318.3	319.7	327.7	333.0	342.3	359.6	369.0	388.9	395.6	298.4
72.5°	262.4	261.1	262.4	269.1	274.4	282.4	297.0	307.7	325.0	333.0	231.8
75°	211.8	209.1	211.8	217.1	215.8	226.4	238.4	249.1	265.1	270.4	171.8
77.5°	162.5	162.5	162.5	167.8	167.8	178.5	183.8	197.1	206.5	214.5	126.5
80°	121.2	119.9	121.2	122.5	122.5	127.9	137.2	146.5	154.5	154.5	86.6
82.5°	85.2	82.6	85.2	85.2	85.2	87.9	93.2	95.9	101.2	105.2	54.6
85°	53.3	53.3	53.3	54.6	53.3	55.9	57.3	59.9	59.9	57.3	33.3
87.5°	34.6	33.3	34.6	33.3	33.3	32.0	32.0	32.0	30.6	29.3	18.6
90°	5.1	5.1	5.1	5.1	5.1	6.7	9.0	10.1	8.7	5.9	3.7
92.5°	20.2	16.3	20.2	24.3	25.3	35.9	50.0	57.1	50.2	36.2	25.8
95°	70.8	58.6	70.8	83.0	86.0	113.0	148.9	166.9	140.9	89.1	50.2
97.5°	169.6	146.3	169.6	192.9	198.6	215.7	238.3	249.7	206.5	120.0	55.1
100°	244.4	216.7	244.4	272.0	278.9	277.7	276.0	275.2	227.2	131.2	59.2
102.5°	317.9	294.2	317.9	341.6	347.6	325.8	296.9	282.4	233.7	136.4	63.4
105°	411.7	398.9	411.7	424.4	427.6	378.9	314.0	281.6	234.4	140.2	69.5
107.5°	473.0	476.1	473.0	470.0	469.2	401.4	310.9	265.6	224.0	140.9	78.6
110°	496.5	509.8	496.5	483.2	479.9	404.0	302.9	252.3	214.8	139.9	83.6



TEST NUMBER: P933975

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	498.5	518.9	498.5	478.1	473.0	395.4	291.9	240.1	206.7	139.9	89.8
115°	485.3	513.6	485.3	457.1	449.9	375.2	275.5	225.6	197.4	141.2	99.0
117.5°	457.3	488.7	457.3	425.9	418.1	350.6	260.6	215.6	191.6	143.8	107.9
120°	434.8	465.2	434.8	404.3	396.7	335.0	252.7	211.6	189.8	146.0	113.1
122.5°	412.7	442.8	412.7	382.7	375.2	319.6	245.5	208.5	188.7	149.0	119.3
125°	381.3	409.0	381.3	353.7	346.8	299.6	236.7	205.2	187.9	153.2	127.2
127.5°	353.2	376.5	353.2	329.8	323.9	283.4	229.4	202.4	187.4	157.3	134.7
130°	336.5	358.0	336.5	314.9	309.5	273.4	225.4	201.3	187.6	160.3	139.8
132.5°	321.4	340.7	321.4	302.0	297.2	265.0	221.9	200.4	187.9	162.8	143.9
135°	300.7	317.4	300.7	284.1	279.9	252.9	216.8	198.8	187.7	165.4	148.7
137.5°	284.2	297.7	284.2	270.5	267.1	244.3	213.8	198.6	188.9	169.4	154.9
140°	272.7	285.5	272.7	260.0	256.8	237.1	210.7	197.6	189.1	171.9	159.0
142.5°	263.3	274.3	263.3	252.4	249.6	232.3	209.1	197.6	189.7	173.9	162.1
145°	249.2	257.5	249.2	240.8	238.8	224.6	205.7	196.2	189.7	176.6	166.8
147.5°	238.3	245.2	238.3	231.4	229.7	218.5	203.7	196.2	191.0	180.5	172.6
150°	231.5	237.1	231.5	225.9	224.5	215.1	202.6	196.2	191.7	182.6	175.7
152.5°	225.6	229.9	225.6	221.5	220.4	212.3	201.6	196.2	192.2	183.9	177.7
155°	218.9	221.7	218.9	216.1	215.4	209.0	200.5	196.2	193.1	186.8	182.1
157.5°	213.7	215.6	213.7	211.7	211.2	206.2	199.5	196.2	194.1	189.8	186.5
160°	210.5	211.6	210.5	209.3	209.0	204.8	199.1	196.2	194.6	191.1	188.5
162.5°	208.4	209.5	208.4	207.3	207.1	203.4	198.6	196.2	195.0	192.5	190.7
165°	205.4	206.5	205.4	204.2	204.0	201.4	197.9	196.2	195.7	194.6	193.7
167.5°	203.3	203.7	203.3	202.7	202.6	201.0	198.7	197.6	197.1	196.2	195.4
170°	202.6	202.6	202.6	202.6	202.6	201.0	198.7	197.6	197.6	197.5	197.4
172.5°	201.0	200.7	201.0	201.5	201.6	200.2	198.5	197.6	197.6	197.6	197.6
175°	200.2	200.2	200.2	200.2	200.2	199.3	198.1	197.6	197.8	198.4	198.8
177.5°	199.3	198.8	199.3	199.8	199.9	199.2	198.3	197.8	198.0	198.5	198.8
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



TEST NUMBER: P933975

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
2.5°	1427.9	1419.9	1419.9	1406.6	1401.3	1397.3	1390.6	1370.6	1365.3	1360.0	1368.0
5°	1439.9	1425.2	1414.6	1390.6	1370.6	1362.6	1337.3	1289.4	1257.4	1233.4	1220.1
7.5°	1442.6	1423.9	1403.9	1366.6	1318.7	1297.4	1220.1	1132.2	1108.2	1086.9	1073.6
10°	1439.9	1418.6	1390.6	1334.7	1221.4	1184.1	1106.9	1049.6	1035.0	1031.0	1035.0
12.5°	1430.6	1410.6	1372.0	1278.7	1120.2	1094.9	1049.6	1016.3	1013.7	1020.3	1056.3
15°	1414.6	1395.9	1350.6	1204.1	1064.3	1045.6	1013.7	1001.7	1016.3	1062.9	1170.8
17.5°	1398.6	1377.3	1321.3	1130.9	1021.6	1008.3	985.7	1009.7	1092.2	1154.8	1190.8
20°	1377.3	1352.0	1288.0	1077.6	991.0	979.0	968.4	1076.3	1138.9	1161.5	1181.5
22.5°	1352.0	1325.3	1242.8	1040.3	959.0	949.7	956.4	1113.6	1138.9	1154.8	1172.2
25°	1318.7	1296.0	1189.5	1011.0	933.7	923.1	948.4	1109.6	1124.2	1128.2	1162.8
27.5°	1288.0	1258.7	1133.5	984.3	903.1	899.1	955.0	1092.2	1102.9	1106.9	1144.2
30°	1250.7	1206.8	1070.9	956.4	871.1	869.8	956.4	1070.9	1068.3	1078.9	1116.2
32.5°	1212.1	1129.5	1000.3	921.7	840.5	839.2	947.1	1039.0	1036.3	1050.9	1078.9
35°	1176.2	1069.6	904.4	881.8	801.9	803.2	924.4	1001.7	1003.0	1016.3	1033.6
37.5°	1138.9	1017.6	799.2	837.8	764.6	764.6	893.8	967.0	964.4	968.4	992.3
40°	1094.9	936.4	706.0	780.6	729.9	725.9	856.5	929.7	920.4	919.1	952.4
42.5°	1048.3	847.2	636.7	704.6	690.0	684.6	811.2	884.4	867.1	871.1	913.8
45°	997.7	823.2	583.4	595.4	648.7	644.7	761.9	832.5	820.5	831.2	875.1
47.5°	947.1	775.2	566.1	494.2	604.7	603.4	707.3	781.9	775.2	785.9	832.5
50°	877.8	721.9	564.8	423.6	555.4	560.8	642.0	732.6	732.6	741.9	791.2
52.5°	788.5	656.7	512.8	383.6	498.2	514.2	584.7	690.0	692.6	702.0	745.9
55°	707.3	588.7	475.5	353.0	430.2	464.9	528.8	646.0	651.3	660.7	700.6
57.5°	632.7	490.2	467.5	317.0	367.6	400.9	479.5	603.4	606.1	614.1	652.7
60°	552.8	354.3	428.9	278.4	313.0	338.3	434.2	552.8	562.1	567.4	600.7
62.5°	462.2	257.1	388.9	251.7	286.4	291.7	396.9	504.8	516.8	520.8	540.8
65°	329.0	215.8	330.3	229.1	258.4	259.7	357.0	455.5	466.2	472.9	487.5
67.5°	222.4	175.8	251.7	207.8	237.1	238.4	318.3	398.3	412.9	418.2	427.6
70°	154.5	117.2	186.5	185.1	213.1	215.8	277.1	346.3	359.6	363.6	369.0
72.5°	113.2	94.6	154.5	166.5	187.8	190.5	234.4	287.7	301.0	305.0	307.7
75°	86.6	99.9	125.2	145.2	159.8	161.2	191.8	234.4	243.8	246.4	247.8
77.5°	69.3	93.2	91.9	117.2	130.5	127.9	150.5	181.2	189.1	189.1	189.1
80°	51.9	73.3	69.3	83.9	95.9	93.2	107.9	129.2	131.9	134.5	133.2
82.5°	38.6	46.6	46.6	53.3	63.9	61.3	71.9	83.9	83.9	83.9	86.6
85°	24.0	26.6	21.3	28.0	36.0	34.6	40.0	45.3	46.6	46.6	44.0
87.5°	14.7	12.0	6.7	10.7	16.0	16.0	18.6	20.0	18.6	18.6	18.6
90°	3.5	2.4	1.3	2.4	3.5	3.7	5.9	8.7	10.1	9.0	6.7
92.5°	23.4	14.4	5.3	14.4	23.4	25.8	36.2	50.2	57.1	50.0	35.9
95°	46.0	29.4	12.8	29.4	46.0	50.2	89.1	140.9	166.9	148.9	113.0
97.5°	51.4	36.8	22.1	36.8	51.4	55.1	120.0	206.5	249.7	238.3	215.7
100°	55.9	42.6	29.4	42.6	55.9	59.2	131.2	227.2	275.2	276.0	277.7
102.5°	60.3	48.0	35.5	48.0	60.3	63.4	136.4	233.7	282.4	296.9	325.8
105°	66.9	56.4	45.9	56.4	66.9	69.5	140.2	234.4	281.6	314.0	378.9
107.5°	76.1	66.3	56.6	66.3	76.1	78.6	140.9	224.0	265.6	310.9	401.4
110°	81.4	72.6	63.8	72.6	81.4	83.6	139.9	214.8	252.3	302.9	404.0



TEST NUMBER: P933975

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	87.6	79.3	70.9	79.3	87.6	89.8	139.9	206.7	240.1	291.9	395.4
115°	97.1	89.3	81.5	89.3	97.1	99.0	141.2	197.4	225.6	275.5	375.2
117.5°	106.1	99.1	92.1	99.1	106.1	107.9	143.8	191.6	215.6	260.6	350.6
120°	111.4	104.9	98.2	104.9	111.4	113.1	146.0	189.8	211.6	252.7	335.0
122.5°	117.6	110.9	104.2	110.9	117.6	119.3	149.0	188.7	208.5	245.5	319.6
125°	125.7	119.5	113.4	119.5	125.7	127.2	153.2	187.9	205.2	236.7	299.6
127.5°	133.2	127.0	120.9	127.0	133.2	134.7	157.3	187.4	202.4	229.4	283.4
130°	138.1	131.5	124.9	131.5	138.1	139.8	160.3	187.6	201.3	225.4	273.4
132.5°	142.3	135.7	129.0	135.7	142.3	143.9	162.8	187.9	200.4	221.9	265.0
135°	147.2	141.2	135.2	141.2	147.2	148.7	165.4	187.7	198.8	216.8	252.9
137.5°	153.4	147.4	141.5	147.4	153.4	154.9	169.4	188.9	198.6	213.8	244.3
140°	157.6	152.1	146.6	152.1	157.6	159.0	171.9	189.1	197.6	210.7	237.1
142.5°	160.8	155.7	150.6	155.7	160.8	162.1	173.9	189.7	197.6	209.1	232.3
145°	165.6	161.2	156.7	161.2	165.6	166.8	176.6	189.7	196.2	205.7	224.6
147.5°	171.6	167.2	162.9	167.2	171.6	172.6	180.5	191.0	196.2	203.7	218.5
150°	174.8	170.8	166.9	170.8	174.8	175.7	182.6	191.7	196.2	202.6	215.1
152.5°	177.0	174.0	171.0	174.0	177.0	177.7	183.9	192.2	196.2	201.6	212.3
155°	181.6	179.4	177.2	179.4	181.6	182.1	186.8	193.1	196.2	200.5	209.0
157.5°	185.9	183.8	181.7	183.8	185.9	186.5	189.8	194.1	196.2	199.5	206.2
160°	188.1	186.5	184.8	186.5	188.1	188.5	191.1	194.6	196.2	199.1	204.8
162.5°	190.3	189.1	187.8	189.1	190.3	190.7	192.5	195.0	196.2	198.6	203.4
165°	193.4	192.3	191.2	192.3	193.4	193.7	194.6	195.7	196.2	197.9	201.4
167.5°	195.3	194.7	194.2	194.7	195.3	195.4	196.2	197.1	197.6	198.7	201.0
170°	197.3	196.8	196.2	196.8	197.3	197.4	197.5	197.6	197.6	198.7	201.0
172.5°	197.6	197.4	197.3	197.4	197.6	197.6	197.6	197.6	197.6	198.5	200.2
175°	198.8	198.8	198.8	198.8	198.8	198.8	198.4	197.8	197.6	198.1	199.3
177.5°	198.8	198.8	198.8	198.8	198.8	198.8	198.5	198.0	197.8	198.3	199.2
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



TEST NUMBER: P933975

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9	1407.9
2.5°	1358.6	1354.6	1360.0	1345.3	1360.0	1354.6	1358.6	1368.0	1360.0	1365.3	1370.6
5°	1192.1	1185.5	1164.2	1146.9	1164.2	1185.5	1192.1	1220.1	1233.4	1257.4	1289.4
7.5°	1065.6	1060.3	1054.9	1044.3	1054.9	1060.3	1065.6	1073.6	1086.9	1108.2	1132.2
10°	1037.6	1039.0	1047.0	1045.6	1047.0	1039.0	1037.6	1035.0	1031.0	1035.0	1049.6
12.5°	1109.6	1121.5	1165.5	1162.8	1165.5	1121.5	1109.6	1056.3	1020.3	1013.7	1016.3
15°	1192.1	1196.1	1205.5	1206.8	1205.5	1196.1	1192.1	1170.8	1062.9	1016.3	1001.7
17.5°	1200.1	1201.5	1208.1	1208.1	1208.1	1201.5	1200.1	1190.8	1154.8	1092.2	1009.7
20°	1193.5	1196.1	1209.5	1212.1	1209.5	1196.1	1193.5	1181.5	1161.5	1138.9	1076.3
22.5°	1190.8	1196.1	1206.8	1205.5	1206.8	1196.1	1190.8	1172.2	1154.8	1138.9	1113.6
25°	1177.5	1177.5	1178.8	1180.2	1178.8	1177.5	1177.5	1162.8	1128.2	1124.2	1109.6
27.5°	1149.5	1152.2	1160.2	1158.8	1160.2	1152.2	1149.5	1144.2	1106.9	1102.9	1092.2
30°	1124.2	1121.5	1114.9	1109.6	1114.9	1121.5	1124.2	1116.2	1078.9	1068.3	1070.9
32.5°	1081.6	1074.9	1068.3	1064.3	1068.3	1074.9	1081.6	1078.9	1050.9	1036.3	1039.0
35°	1031.0	1032.3	1031.0	1027.0	1031.0	1032.3	1031.0	1033.6	1016.3	1003.0	1001.7
37.5°	995.0	997.7	996.3	991.0	996.3	997.7	995.0	992.3	968.4	964.4	967.0
40°	957.7	959.0	957.7	953.7	957.7	959.0	957.7	952.4	919.1	920.4	929.7
42.5°	921.7	920.4	916.4	913.8	916.4	920.4	921.7	913.8	871.1	867.1	884.4
45°	880.5	881.8	873.8	869.8	873.8	881.8	880.5	875.1	831.2	820.5	832.5
47.5°	839.2	839.2	832.5	828.5	832.5	839.2	839.2	832.5	785.9	775.2	781.9
50°	795.2	793.9	784.5	783.2	784.5	793.9	795.2	791.2	741.9	732.6	732.6
52.5°	744.6	744.6	745.9	748.6	745.9	744.6	744.6	745.9	702.0	692.6	690.0
55°	700.6	702.0	711.3	714.0	711.3	702.0	700.6	700.6	660.7	651.3	646.0
57.5°	655.3	655.3	662.0	662.0	662.0	655.3	655.3	652.7	614.1	606.1	603.4
60°	603.4	606.1	611.4	610.1	611.4	606.1	603.4	600.7	567.4	562.1	552.8
62.5°	548.8	551.4	552.8	550.1	552.8	551.4	548.8	540.8	520.8	516.8	504.8
65°	491.5	494.2	495.5	492.8	495.5	494.2	491.5	487.5	472.9	466.2	455.5
67.5°	432.9	431.6	430.2	435.6	430.2	431.6	432.9	427.6	418.2	412.9	398.3
70°	373.0	373.0	371.6	374.3	371.6	373.0	373.0	369.0	363.6	359.6	346.3
72.5°	309.0	307.7	313.0	309.0	313.0	307.7	309.0	307.7	305.0	301.0	287.7
75°	246.4	249.1	246.4	250.4	246.4	249.1	246.4	247.8	246.4	243.8	234.4
77.5°	187.8	190.5	187.8	187.8	187.8	190.5	187.8	189.1	189.1	189.1	181.2
80°	133.2	131.9	131.9	130.5	131.9	131.9	133.2	133.2	134.5	131.9	129.2
82.5°	85.2	83.9	83.9	86.6	83.9	83.9	85.2	86.6	83.9	83.9	83.9
85°	46.6	48.0	45.3	45.3	45.3	48.0	46.6	44.0	46.6	46.6	45.3
87.5°	17.3	16.0	16.0	16.0	16.0	16.0	17.3	18.6	18.6	18.6	20.0
90°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.7	9.0	10.1	8.7
92.5°	25.3	24.3	20.2	16.3	20.2	24.3	25.3	35.9	50.0	57.1	50.2
95°	86.0	83.0	70.8	58.6	70.8	83.0	86.0	113.0	148.9	166.9	140.9
97.5°	198.6	192.9	169.6	146.3	169.6	192.9	198.6	215.7	238.3	249.7	206.5
100°	278.9	272.0	244.4	216.7	244.4	272.0	278.9	277.7	276.0	275.2	227.2
102.5°	347.6	341.6	317.9	294.2	317.9	341.6	347.6	325.8	296.9	282.4	233.7
105°	427.6	424.4	411.7	398.9	411.7	424.4	427.6	378.9	314.0	281.6	234.4
107.5°	469.2	470.0	473.0	476.1	473.0	470.0	469.2	401.4	310.9	265.6	224.0
110°	479.9	483.2	496.5	509.8	496.5	483.2	479.9	404.0	302.9	252.3	214.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	473.0	478.1	498.5	518.9	498.5	478.1	473.0	395.4	291.9	240.1	206.7
115°	449.9	457.1	485.3	513.6	485.3	457.1	449.9	375.2	275.5	225.6	197.4
117.5°	418.1	425.9	457.3	488.7	457.3	425.9	418.1	350.6	260.6	215.6	191.6
120°	396.7	404.3	434.8	465.2	434.8	404.3	396.7	335.0	252.7	211.6	189.8
122.5°	375.2	382.7	412.7	442.8	412.7	382.7	375.2	319.6	245.5	208.5	188.7
125°	346.8	353.7	381.3	409.0	381.3	353.7	346.8	299.6	236.7	205.2	187.9
127.5°	323.9	329.8	353.2	376.5	353.2	329.8	323.9	283.4	229.4	202.4	187.4
130°	309.5	314.9	336.5	358.0	336.5	314.9	309.5	273.4	225.4	201.3	187.6
132.5°	297.2	302.0	321.4	340.7	321.4	302.0	297.2	265.0	221.9	200.4	187.9
135°	279.9	284.1	300.7	317.4	300.7	284.1	279.9	252.9	216.8	198.8	187.7
137.5°	267.1	270.5	284.2	297.7	284.2	270.5	267.1	244.3	213.8	198.6	188.9
140°	256.8	260.0	272.7	285.5	272.7	260.0	256.8	237.1	210.7	197.6	189.1
142.5°	249.6	252.4	263.3	274.3	263.3	252.4	249.6	232.3	209.1	197.6	189.7
145°	238.8	240.8	249.2	257.5	249.2	240.8	238.8	224.6	205.7	196.2	189.7
147.5°	229.7	231.4	238.3	245.2	238.3	231.4	229.7	218.5	203.7	196.2	191.0
150°	224.5	225.9	231.5	237.1	231.5	225.9	224.5	215.1	202.6	196.2	191.7
152.5°	220.4	221.5	225.6	229.9	225.6	221.5	220.4	212.3	201.6	196.2	192.2
155°	215.4	216.1	218.9	221.7	218.9	216.1	215.4	209.0	200.5	196.2	193.1
157.5°	211.2	211.7	213.7	215.6	213.7	211.7	211.2	206.2	199.5	196.2	194.1
160°	209.0	209.3	210.5	211.6	210.5	209.3	209.0	204.8	199.1	196.2	194.6
162.5°	207.1	207.3	208.4	209.5	208.4	207.3	207.1	203.4	198.6	196.2	195.0
165°	204.0	204.2	205.4	206.5	205.4	204.2	204.0	201.4	197.9	196.2	195.7
167.5°	202.6	202.7	203.3	203.7	203.3	202.7	202.6	201.0	198.7	197.6	197.1
170°	202.6	202.6	202.6	202.6	202.6	202.6	202.6	201.0	198.7	197.6	197.6
172.5°	201.6	201.5	201.0	200.7	201.0	201.5	201.6	200.2	198.5	197.6	197.6
175°	200.2	200.2	200.2	200.2	200.2	200.2	200.2	199.3	198.1	197.6	197.8
177.5°	199.9	199.8	199.3	198.8	199.3	199.8	199.9	199.2	198.3	197.8	198.0
180°	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8	198.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1407.9	1407.9	1407.9	1407.9	1407.9
2.5°	1390.6	1397.3	1401.3	1406.6	1419.9
5°	1337.3	1362.6	1370.6	1390.6	1414.6
7.5°	1220.1	1297.4	1318.7	1366.6	1403.9
10°	1106.9	1184.1	1221.4	1334.7	1390.6
12.5°	1049.6	1094.9	1120.2	1278.7	1372.0
15°	1013.7	1045.6	1064.3	1204.1	1350.6
17.5°	985.7	1008.3	1021.6	1130.9	1321.3
20°	968.4	979.0	991.0	1077.6	1288.0
22.5°	956.4	949.7	959.0	1040.3	1242.8
25°	948.4	923.1	933.7	1011.0	1189.5
27.5°	955.0	899.1	903.1	984.3	1133.5
30°	956.4	869.8	871.1	956.4	1070.9
32.5°	947.1	839.2	840.5	921.7	1000.3
35°	924.4	803.2	801.9	881.8	904.4
37.5°	893.8	764.6	764.6	837.8	799.2
40°	856.5	725.9	729.9	780.6	706.0
42.5°	811.2	684.6	690.0	704.6	636.7
45°	761.9	644.7	648.7	595.4	583.4
47.5°	707.3	603.4	604.7	494.2	566.1
50°	642.0	560.8	555.4	423.6	564.8
52.5°	584.7	514.2	498.2	383.6	512.8
55°	528.8	464.9	430.2	353.0	475.5
57.5°	479.5	400.9	367.6	317.0	467.5
60°	434.2	338.3	313.0	278.4	428.9
62.5°	396.9	291.7	286.4	251.7	388.9
65°	357.0	259.7	258.4	229.1	330.3
67.5°	318.3	238.4	237.1	207.8	251.7
70°	277.1	215.8	213.1	185.1	186.5
72.5°	234.4	190.5	187.8	166.5	154.5
75°	191.8	161.2	159.8	145.2	125.2
77.5°	150.5	127.9	130.5	117.2	91.9
80°	107.9	93.2	95.9	83.9	69.3
82.5°	71.9	61.3	63.9	53.3	46.6
85°	40.0	34.6	36.0	28.0	21.3
87.5°	18.6	16.0	16.0	10.7	6.7
90°	5.9	3.7	3.5	2.4	1.3
92.5°	36.2	25.8	23.4	14.4	5.3
95°	89.1	50.2	46.0	29.4	12.8
97.5°	120.0	55.1	51.4	36.8	22.1
100°	131.2	59.2	55.9	42.6	29.4
102.5°	136.4	63.4	60.3	48.0	35.5
105°	140.2	69.5	66.9	56.4	45.9
107.5°	140.9	78.6	76.1	66.3	56.6
110°	139.9	83.6	81.4	72.6	63.8



TEST NUMBER: P933975

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	139.9	89.8	87.6	79.3	70.9
115°	141.2	99.0	97.1	89.3	81.5
117.5°	143.8	107.9	106.1	99.1	92.1
120°	146.0	113.1	111.4	104.9	98.2
122.5°	149.0	119.3	117.6	110.9	104.2
125°	153.2	127.2	125.7	119.5	113.4
127.5°	157.3	134.7	133.2	127.0	120.9
130°	160.3	139.8	138.1	131.5	124.9
132.5°	162.8	143.9	142.3	135.7	129.0
135°	165.4	148.7	147.2	141.2	135.2
137.5°	169.4	154.9	153.4	147.4	141.5
140°	171.9	159.0	157.6	152.1	146.6
142.5°	173.9	162.1	160.8	155.7	150.6
145°	176.6	166.8	165.6	161.2	156.7
147.5°	180.5	172.6	171.6	167.2	162.9
150°	182.6	175.7	174.8	170.8	166.9
152.5°	183.9	177.7	177.0	174.0	171.0
155°	186.8	182.1	181.6	179.4	177.2
157.5°	189.8	186.5	185.9	183.8	181.7
160°	191.1	188.5	188.1	186.5	184.8
162.5°	192.5	190.7	190.3	189.1	187.8
165°	194.6	193.7	193.4	192.3	191.2
167.5°	196.2	195.4	195.3	194.7	194.2
170°	197.5	197.4	197.3	196.8	196.2
172.5°	197.6	197.6	197.6	197.4	197.3
175°	198.4	198.8	198.8	198.8	198.8
177.5°	198.5	198.8	198.8	198.8	198.8
180°	198.8	198.8	198.8	198.8	198.8



TEST NUMBER: P933975
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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	14.29	15.41	15.01	16.16	17.04	17.11	18.24	17.83	18.98	19.86
	3H	14.78	15.80	15.52	16.55	17.46	18.48	19.49	19.21	20.24	21.15
	4H	14.99	15.94	15.74	16.70	17.63	18.93	19.89	19.68	20.65	21.57
	6H	15.12	16.00	15.89	16.77	17.71	19.23	20.11	19.99	20.88	21.82
	8H	15.13	15.97	15.91	16.76	17.70	19.31	20.15	20.09	20.94	21.88
	12H	15.11	15.91	15.89	16.69	17.66	19.36	20.16	20.14	20.94	21.91
4H	2H	15.35	16.31	16.11	17.07	17.99	17.55	18.51	18.31	19.27	20.20
	3H	16.40	17.20	17.17	17.99	18.94	19.08	19.88	19.85	20.67	21.62
	4H	16.69	17.41	17.47	18.21	19.18	19.62	20.34	20.40	21.14	22.11
	6H	16.83	17.46	17.63	18.28	19.26	20.00	20.62	20.80	21.45	22.43
	8H	16.84	17.43	17.65	18.24	19.23	20.11	20.70	20.92	21.51	22.50
	12H	16.82	17.35	17.65	18.19	19.18	20.18	20.71	21.01	21.54	22.54
8H	4H	17.16	17.75	17.97	18.57	19.56	19.77	20.35	20.57	21.17	22.16
	6H	17.44	17.92	18.27	18.78	19.77	20.21	20.70	21.05	21.55	22.55
	8H	17.48	17.91	18.33	18.77	19.78	20.37	20.80	21.21	21.65	22.66
	12H	17.48	17.86	18.33	18.70	19.77	20.47	20.85	21.32	21.70	22.77
12H	4H	17.18	17.71	18.01	18.55	19.54	19.74	20.27	20.57	21.11	22.10
	6H	17.50	17.93	18.34	18.79	19.79	20.21	20.64	21.06	21.50	22.51
	8H	17.58	17.96	18.43	18.80	19.87	20.38	20.76	21.23	21.61	22.68