

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: P935171

Luminaire Tested: SQ4-FA-100U-075D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935171
REPORT IS A COMBINATION OF REPORTS P933743 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

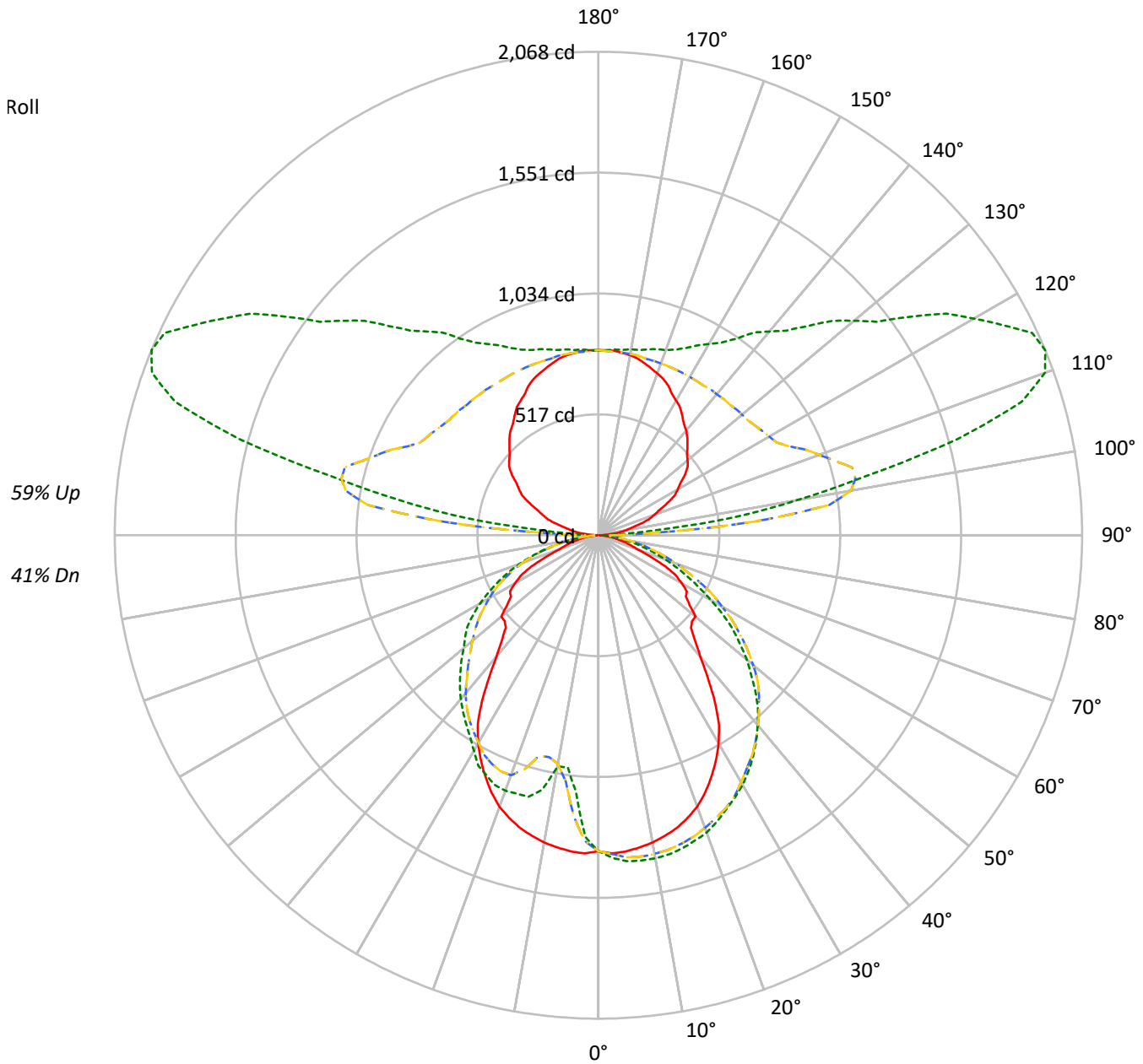
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8640.1 lumens
Efficiency: N/A
Efficacy: 117.1 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: General Diffuse

Input Watts (W): 73.8
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

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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	40	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	34	34	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	29	29	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	25	25	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	22	22	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	19	19	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	13	13	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8356	8356	8356	8356
5°	8416	8435	8416	6633
10°	8356	8309	8356	5940
15°	8263	8129	8263	6788
20°	8086	7916	8086	6802
25°	7730	7605	7730	6658
30°	7270	7347	7270	6342
35°	6478	7020	6478	5994
40°	5394	6636	5394	5731
45°	4817	6185	4817	5429
50°	5114	5648	5114	5126
55°	4806	5070	4806	4950
60°	4948	4306	4948	4534
65°	4479	3560	4479	3979
70°	3094	2836	3094	3335
75°	2702	2097	2702	2511
80°	2164	1386	2164	1509
85°	1216	734	1216	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7387 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	1.4
10°-20°	346.2	4.0
20°-30°	535.2	6.2
30°-40°	638.9	7.4
40°-50°	642.6	7.4
50°-60°	559.2	6.5
60°-70°	396.5	4.6
70°-80°	209.8	2.4
80°-90°	55.3	0.6
90°-100°	386.1	4.5
100°-110°	1015.0	11.7
110°-120°	1052.5	12.2
120°-130°	844.2	9.8
130°-140°	662.4	7.7
140°-150°	508.4	5.9
150°-160°	366.2	4.2
160°-170°	224.0	2.6
170°-180°	75.7	0.9
0°-30°	1003.3	11.6
0°-40°	1642.2	19.0
0°-60°	2844.1	32.9
0°-90°	3505.5	40.6
90°-120°	2453.6	28.4
90°-150°	4468.7	51.7
90°-180°	5135.0	59.4
0°-180°	8640.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1351	1351	1351	1351	1351	
5°	1357	1399	1357	1100	1357	129
15°	1296	1387	1296	1158	1296	365
25°	1141	1293	1141	1132	1141	524
35°	868	1154	868	985	868	537
45°	560	951	560	834	560	448
55°	456	702	456	685	456	419
65°	317	423	317	473	317	303
75°	120	201	120	240	120	126
85°	20	51	20	44	20	28
90°	5	20	5	20	5	5
95°	51	233	51	233	51	57
105°	183	1589	183	1589	183	194
115°	325	2047	325	2047	325	321
125°	452	1630	452	1630	452	401
135°	538	1265	538	1265	538	417
145°	625	1026	625	1026	625	391
155°	706	883	706	883	706	324
165°	762	823	762	823	762	215
175°	792	797	792	797	792	75
180°	792	792	792	792	792	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1362.3	1362.3	1370.0	1372.6	1372.6	1368.7	1364.9	1368.7	1380.2	1384.1	1382.8
5°	1357.2	1367.5	1381.5	1384.1	1386.6	1385.4	1382.8	1385.4	1398.1	1400.7	1402.0
7.5°	1347.0	1366.2	1384.1	1387.9	1391.7	1387.9	1386.6	1389.2	1402.0	1404.5	1404.5
10°	1334.2	1361.1	1381.5	1384.1	1387.9	1384.1	1384.1	1389.2	1402.0	1404.5	1405.8
12.5°	1316.3	1353.4	1372.6	1375.1	1380.2	1379.0	1377.7	1382.8	1395.6	1398.1	1398.1
15°	1295.9	1339.3	1357.2	1359.8	1368.7	1366.2	1366.2	1371.3	1385.4	1389.2	1387.9
17.5°	1267.8	1321.5	1341.9	1345.7	1352.1	1350.8	1352.1	1357.2	1370.0	1372.6	1373.8
20°	1235.8	1297.2	1321.5	1325.3	1331.7	1331.7	1331.7	1338.1	1350.8	1356.0	1356.0
22.5°	1192.4	1271.6	1297.2	1299.7	1307.4	1307.4	1310.0	1318.9	1330.4	1331.7	1331.7
25°	1141.3	1243.5	1265.2	1272.9	1280.6	1284.4	1288.2	1293.3	1297.2	1295.9	1297.2
27.5°	1087.6	1207.7	1235.8	1240.9	1251.2	1255.0	1260.1	1261.4	1262.7	1266.5	1263.9
30°	1027.5	1157.9	1200.0	1205.2	1221.8	1224.3	1219.2	1221.8	1228.2	1230.7	1233.3
32.5°	959.8	1083.7	1163.0	1174.5	1189.8	1182.1	1180.9	1184.7	1194.9	1194.9	1197.5
35°	867.8	1026.2	1128.5	1138.7	1150.2	1141.3	1146.4	1147.6	1154.0	1157.9	1156.6
37.5°	766.8	976.4	1092.7	1100.4	1109.3	1097.8	1105.5	1109.3	1114.4	1111.9	1111.9
40°	677.3	898.4	1050.5	1055.6	1063.3	1054.4	1062.0	1064.6	1067.1	1064.6	1063.3
42.5°	610.9	812.8	1005.8	1012.2	1007.1	1013.5	1016.0	1021.1	1017.3	1012.2	1012.2
45°	559.8	789.8	957.2	964.9	957.2	967.4	971.3	971.3	959.8	957.2	955.9
47.5°	543.2	743.8	908.7	908.7	904.8	917.6	924.0	915.0	903.5	899.7	899.7
50°	541.9	692.7	842.2	837.1	855.0	870.3	863.9	855.0	846.0	832.0	832.0
52.5°	492.0	630.1	756.6	775.7	803.9	812.8	802.6	793.6	778.3	771.9	766.8
55°	456.2	564.9	678.6	717.0	746.4	757.9	738.7	729.7	706.7	702.9	700.3
57.5°	448.6	470.3	607.0	655.6	691.4	690.1	678.6	662.0	642.8	639.0	637.7
60°	411.5	339.9	530.4	587.9	624.9	621.1	610.9	595.5	577.7	575.1	572.5
62.5°	373.2	246.7	443.5	508.6	561.0	559.8	550.8	527.8	515.0	508.6	503.5
65°	316.9	207.0	315.7	423.0	498.4	501.0	481.8	465.2	451.1	443.5	442.2
67.5°	241.5	168.7	213.4	352.7	438.4	435.8	411.5	403.8	386.0	382.1	374.5
70°	178.9	112.5	148.2	286.3	379.6	373.2	354.0	345.1	328.4	319.5	314.4
72.5°	148.2	90.7	108.6	222.4	319.5	311.8	295.2	285.0	270.9	263.3	258.2
75°	120.1	95.8	83.1	164.9	259.4	254.3	239.0	228.8	217.3	207.0	208.3
77.5°	88.2	89.5	66.5	121.4	205.8	198.1	189.1	176.4	171.3	161.0	161.0
80°	66.5	70.3	49.8	83.1	148.2	148.2	140.6	131.6	122.7	117.6	117.6
82.5°	44.7	44.7	37.1	52.4	101.0	97.1	92.0	89.5	84.3	81.8	81.8
85°	20.4	25.6	23.0	32.0	55.0	57.5	57.5	55.0	53.7	51.1	52.4
87.5°	6.4	11.5	14.1	17.9	28.1	29.4	30.7	30.7	30.7	32.0	32.0
90°	5.3	9.5	13.8	14.9	23.4	34.8	40.4	35.9	26.9	20.2	20.2
92.5°	21.3	57.4	93.5	102.6	144.2	199.7	227.5	199.4	143.1	101.0	97.0
95°	51.0	117.2	183.4	199.9	354.9	561.6	665.0	593.4	450.2	342.8	330.7
97.5°	88.3	146.6	205.0	219.6	478.1	822.8	995.1	949.9	859.4	791.5	768.3
100°	117.0	169.9	222.8	236.0	522.9	905.3	1096.6	1099.9	1106.6	1111.5	1083.9
102.5°	141.4	190.8	240.2	252.5	543.5	931.4	1125.3	1183.0	1298.3	1384.8	1361.2
105°	182.8	224.7	266.5	277.0	558.7	934.4	1122.2	1251.4	1509.8	1703.7	1691.0
107.5°	225.4	264.4	303.4	313.1	561.6	892.7	1058.4	1238.6	1599.1	1869.5	1872.6
110°	254.1	289.3	324.5	333.3	557.3	855.9	1005.2	1206.7	1609.8	1912.1	1925.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	282.3	315.8	349.4	357.8	557.5	823.7	956.8	1163.1	1575.6	1885.0	1905.2
115°	324.8	355.7	386.6	394.4	562.6	786.7	898.9	1097.5	1495.0	1793.0	1821.2
117.5°	366.8	394.9	423.0	430.0	573.0	763.6	859.0	1038.3	1396.9	1665.9	1697.2
120°	391.2	417.7	444.1	450.8	581.6	755.9	843.1	1006.9	1334.6	1580.4	1610.7
122.5°	415.2	441.8	468.6	475.2	593.8	751.8	830.9	978.4	1273.5	1494.7	1524.7
125°	451.8	476.2	500.6	506.6	610.3	748.5	817.6	942.9	1193.6	1381.6	1409.2
127.5°	481.6	506.2	530.8	536.9	626.7	746.5	806.4	914.0	1129.2	1290.7	1314.0
130°	497.6	524.1	550.5	557.1	638.8	747.7	802.2	897.9	1089.5	1233.3	1254.7
132.5°	514.0	540.5	566.9	573.6	648.5	748.5	798.4	884.2	1055.7	1184.4	1203.6
135°	538.5	562.6	586.7	592.7	659.2	747.7	792.0	863.8	1007.5	1115.3	1131.9
137.5°	563.4	587.3	611.2	617.2	675.1	752.4	791.0	851.7	973.2	1064.2	1077.8
140°	584.2	606.2	628.2	633.6	684.8	753.1	787.2	839.7	944.6	1023.3	1035.9
142.5°	600.1	620.5	640.8	645.9	693.0	755.8	787.2	833.3	925.4	994.5	1005.4
145°	624.6	642.3	660.0	664.5	703.7	755.9	782.0	819.6	895.0	951.5	959.8
147.5°	649.1	666.3	683.5	687.8	719.2	761.0	782.0	811.6	870.9	915.4	922.2
150°	665.0	680.6	696.2	700.1	727.4	763.7	782.0	807.0	857.0	894.6	900.1
152.5°	681.5	693.4	705.1	708.1	732.7	765.5	782.0	803.4	846.1	878.2	882.3
155°	706.0	714.7	723.3	725.6	744.4	769.4	782.0	799.0	833.0	858.5	861.3
157.5°	724.0	732.5	741.0	743.1	756.1	773.4	782.0	795.2	821.7	841.5	843.5
160°	736.2	742.9	749.5	751.1	761.4	775.1	782.0	793.3	816.0	833.0	834.1
162.5°	748.5	753.4	758.4	759.6	767.1	777.0	782.0	791.5	810.7	825.0	826.0
165°	761.8	766.2	770.7	771.8	775.2	779.8	782.0	788.8	802.5	812.8	813.9
167.5°	774.0	776.1	778.2	778.7	781.5	785.4	787.2	791.8	800.7	807.4	808.0
170°	782.0	784.1	786.2	786.7	786.9	787.2	787.2	791.8	800.7	807.4	807.4
172.5°	786.2	786.7	787.2	787.2	787.2	787.2	787.2	790.8	797.9	803.2	802.8
175°	792.0	792.0	792.0	792.0	790.4	788.3	787.2	789.5	794.0	797.4	797.4
177.5°	792.0	792.0	792.0	792.0	790.8	789.2	788.4	790.1	793.6	796.3	795.8
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1385.4	1381.5	1385.4	1382.8	1384.1	1380.2	1368.7	1364.9	1368.7	1372.6	1372.6
5°	1402.0	1399.4	1402.0	1402.0	1400.7	1398.1	1385.4	1382.8	1385.4	1386.6	1384.1
7.5°	1407.1	1403.2	1407.1	1404.5	1404.5	1402.0	1389.2	1386.6	1387.9	1391.7	1387.9
10°	1407.1	1403.2	1407.1	1405.8	1404.5	1402.0	1389.2	1384.1	1384.1	1387.9	1384.1
12.5°	1400.7	1398.1	1400.7	1398.1	1398.1	1395.6	1382.8	1377.7	1379.0	1380.2	1375.1
15°	1390.5	1386.6	1390.5	1387.9	1389.2	1385.4	1371.3	1366.2	1366.2	1368.7	1359.8
17.5°	1375.1	1370.0	1375.1	1373.8	1372.6	1370.0	1357.2	1352.1	1350.8	1352.1	1345.7
20°	1357.2	1353.4	1357.2	1356.0	1356.0	1350.8	1338.1	1331.7	1331.7	1331.7	1325.3
22.5°	1329.1	1325.3	1329.1	1331.7	1331.7	1330.4	1318.9	1310.0	1307.4	1307.4	1299.7
25°	1297.2	1293.3	1297.2	1297.2	1295.9	1297.2	1293.3	1288.2	1284.4	1280.6	1272.9
27.5°	1266.5	1263.9	1266.5	1263.9	1266.5	1262.7	1261.4	1260.1	1255.0	1251.2	1240.9
30°	1235.8	1233.3	1235.8	1233.3	1230.7	1228.2	1221.8	1219.2	1224.3	1221.8	1205.2
32.5°	1197.5	1194.9	1197.5	1197.5	1194.9	1194.9	1184.7	1180.9	1182.1	1189.8	1174.5
35°	1157.9	1154.0	1157.9	1156.6	1157.9	1154.0	1147.6	1146.4	1141.3	1150.2	1138.7
37.5°	1111.9	1108.0	1111.9	1111.9	1111.9	1114.4	1109.3	1105.5	1097.8	1109.3	1100.4
40°	1064.6	1059.5	1064.6	1063.3	1064.6	1067.1	1064.6	1062.0	1054.4	1063.3	1055.6
42.5°	1010.9	1009.6	1010.9	1012.2	1012.2	1017.3	1021.1	1016.0	1013.5	1007.1	1012.2
45°	953.4	950.8	953.4	955.9	957.2	959.8	971.3	971.3	967.4	957.2	964.9
47.5°	892.0	885.7	892.0	899.7	899.7	903.5	915.0	924.0	917.6	904.8	908.7
50°	826.9	828.1	826.9	832.0	832.0	846.0	855.0	863.9	870.3	855.0	837.1
52.5°	763.0	761.7	763.0	766.8	771.9	778.3	793.6	802.6	812.8	803.9	775.7
55°	699.1	701.6	699.1	700.3	702.9	706.7	729.7	738.7	757.9	746.4	717.0
57.5°	635.2	631.3	635.2	637.7	639.0	642.8	662.0	678.6	690.1	691.4	655.6
60°	561.0	555.9	561.0	572.5	575.1	577.7	595.5	610.9	621.1	624.9	587.9
62.5°	495.9	486.9	495.9	503.5	508.6	515.0	527.8	550.8	559.8	561.0	508.6
65°	426.9	423.0	426.9	442.2	443.5	451.1	465.2	481.8	501.0	498.4	423.0
67.5°	364.2	364.2	364.2	374.5	382.1	386.0	403.8	411.5	435.8	438.4	352.7
70°	306.7	305.4	306.7	314.4	319.5	328.4	345.1	354.0	373.2	379.6	286.3
72.5°	251.8	250.5	251.8	258.2	263.3	270.9	285.0	295.2	311.8	319.5	222.4
75°	203.2	200.6	203.2	208.3	207.0	217.3	228.8	239.0	254.3	259.4	164.9
77.5°	155.9	155.9	155.9	161.0	161.0	171.3	176.4	189.1	198.1	205.8	121.4
80°	116.3	115.0	116.3	117.6	117.6	122.7	131.6	140.6	148.2	148.2	83.1
82.5°	81.8	79.2	81.8	81.8	81.8	84.3	89.5	92.0	97.1	101.0	52.4
85°	51.1	51.1	51.1	52.4	51.1	53.7	55.0	57.5	57.5	55.0	32.0
87.5°	33.2	32.0	33.2	32.0	32.0	30.7	30.7	30.7	29.4	28.1	17.9
90°	20.2	20.2	20.2	20.2	20.2	26.9	35.9	40.4	34.8	23.4	14.9
92.5°	80.9	64.8	80.9	97.0	101.0	143.1	199.4	227.5	199.7	144.2	102.6
95°	282.0	233.4	282.0	330.7	342.8	450.2	593.4	665.0	561.6	354.9	199.9
97.5°	675.7	583.1	675.7	768.3	791.5	859.4	949.9	995.1	822.8	478.1	219.6
100°	973.6	863.2	973.6	1083.9	1111.5	1106.6	1099.9	1096.6	905.3	522.9	236.0
102.5°	1266.6	1172.1	1266.6	1361.2	1384.8	1298.3	1183.0	1125.3	931.4	543.5	252.5
105°	1640.2	1589.4	1640.2	1691.0	1703.7	1509.8	1251.4	1122.2	934.4	558.7	277.0
107.5°	1885.0	1897.2	1885.0	1872.6	1869.5	1599.1	1238.6	1058.4	892.7	561.6	313.1
110°	1978.3	2031.2	1978.3	1925.3	1912.1	1609.8	1206.7	1005.2	855.9	557.3	333.3



TEST NUMBER: P935171

CATALOG NUMBER: SQ4-FA-100U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1986.5	2067.8	1986.5	1905.2	1885.0	1575.6	1163.1	956.8	823.7	557.5	357.8
115°	1933.9	2046.6	1933.9	1821.2	1793.0	1495.0	1097.5	898.9	786.7	562.6	394.4
117.5°	1822.2	1947.2	1822.2	1697.2	1665.9	1396.9	1038.3	859.0	763.6	573.0	430.0
120°	1732.2	1853.6	1732.2	1610.7	1580.4	1334.6	1006.9	843.1	755.9	581.6	450.8
122.5°	1644.5	1764.3	1644.5	1524.7	1494.7	1273.5	978.4	830.9	751.8	593.8	475.2
125°	1519.5	1629.8	1519.5	1409.2	1381.6	1193.6	942.9	817.6	748.5	610.3	506.6
127.5°	1407.1	1500.1	1407.1	1314.0	1290.7	1129.2	914.0	806.4	746.5	626.7	536.9
130°	1340.8	1426.8	1340.8	1254.7	1233.3	1089.5	897.9	802.2	747.7	638.8	557.1
132.5°	1280.6	1357.7	1280.6	1203.6	1184.4	1055.7	884.2	798.4	748.5	648.5	573.6
135°	1198.3	1264.6	1198.3	1131.9	1115.3	1007.5	863.8	792.0	747.7	659.2	592.7
137.5°	1132.1	1186.5	1132.1	1077.8	1064.2	973.2	851.7	791.0	752.4	675.1	617.2
140°	1086.8	1137.6	1086.8	1035.9	1023.3	944.6	839.7	787.2	753.1	684.8	633.6
142.5°	1049.2	1092.9	1049.2	1005.4	994.5	925.4	833.3	787.2	755.8	693.0	645.9
145°	992.9	1026.0	992.9	959.8	951.5	895.0	819.6	782.0	755.9	703.7	664.5
147.5°	949.6	977.1	949.6	922.2	915.4	870.9	811.6	782.0	761.0	719.2	687.8
150°	922.4	944.6	922.4	900.1	894.6	857.0	807.0	782.0	763.7	727.4	700.1
152.5°	899.1	915.9	899.1	882.3	878.2	846.1	803.4	782.0	765.5	732.7	708.1
155°	872.4	883.4	872.4	861.3	858.5	833.0	799.0	782.0	769.4	744.4	725.6
157.5°	851.2	859.0	851.2	843.5	841.5	821.7	795.2	782.0	773.4	756.1	743.1
160°	838.6	843.1	838.6	834.1	833.0	816.0	793.3	782.0	775.1	761.4	751.1
162.5°	830.3	834.5	830.3	826.0	825.0	810.7	791.5	782.0	777.0	767.1	759.6
165°	818.4	822.9	818.4	813.9	812.8	802.5	788.8	782.0	779.8	775.2	771.8
167.5°	809.8	811.7	809.8	808.0	807.4	800.7	791.8	787.2	785.4	781.5	778.7
170°	807.4	807.4	807.4	807.4	807.4	800.7	791.8	787.2	787.2	786.9	786.7
172.5°	801.1	799.5	801.1	802.8	803.2	797.9	790.8	787.2	787.2	787.2	787.2
175°	797.4	797.4	797.4	797.4	797.4	794.0	789.5	787.2	788.3	790.4	792.0
177.5°	793.9	792.0	793.9	795.8	796.3	793.6	790.1	788.4	789.2	790.8	792.0
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0



TEST NUMBER: P935171

CATALOG NUMBER: SQ4-FA-100U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1370.0	1362.3	1362.3	1349.6	1344.5	1340.6	1334.2	1315.1	1310.0	1304.8	1312.5
5°	1381.5	1367.5	1357.2	1334.2	1315.1	1307.4	1283.1	1237.1	1206.4	1183.4	1170.6
7.5°	1384.1	1366.2	1347.0	1311.2	1265.2	1244.8	1170.6	1086.3	1063.3	1042.8	1030.1
10°	1381.5	1361.1	1334.2	1280.6	1171.9	1136.1	1062.0	1007.1	993.0	989.2	993.0
12.5°	1372.6	1353.4	1316.3	1226.9	1074.8	1050.5	1007.1	975.1	972.6	978.9	1013.5
15°	1357.2	1339.3	1295.9	1155.3	1021.1	1003.2	972.6	961.1	975.1	1019.8	1123.4
17.5°	1341.9	1321.5	1267.8	1085.0	980.2	967.4	945.7	968.7	1048.0	1108.0	1142.5
20°	1321.5	1297.2	1235.8	1033.9	950.8	939.3	929.1	1032.6	1092.7	1114.4	1133.6
22.5°	1297.2	1271.6	1192.4	998.1	920.2	911.2	917.6	1068.4	1092.7	1108.0	1124.6
25°	1265.2	1243.5	1141.3	970.0	895.9	885.7	909.9	1064.6	1078.6	1082.5	1115.7
27.5°	1235.8	1207.7	1087.6	944.4	866.5	862.6	916.3	1048.0	1058.2	1062.0	1097.8
30°	1200.0	1157.9	1027.5	917.6	835.8	834.5	917.6	1027.5	1025.0	1035.2	1071.0
32.5°	1163.0	1083.7	959.8	884.4	806.4	805.1	908.7	996.8	994.3	1008.3	1035.2
35°	1128.5	1026.2	867.8	846.0	769.4	770.6	886.9	961.1	962.3	975.1	991.7
37.5°	1092.7	976.4	766.8	803.9	733.6	733.6	857.5	927.8	925.3	929.1	952.1
40°	1050.5	898.4	677.3	748.9	700.3	696.5	821.8	892.0	883.1	881.8	913.8
42.5°	1005.8	812.8	610.9	676.1	662.0	656.9	778.3	848.6	832.0	835.8	876.7
45°	957.2	789.8	559.8	571.3	622.4	618.6	731.0	798.8	787.2	797.5	839.6
47.5°	908.7	743.8	543.2	474.1	580.2	578.9	678.6	750.2	743.8	754.0	798.8
50°	842.2	692.7	541.9	406.4	532.9	538.0	616.0	702.9	702.9	711.8	759.1
52.5°	756.6	630.1	492.0	368.1	478.0	493.3	561.0	662.0	664.6	673.5	715.7
55°	678.6	564.9	456.2	338.7	412.8	446.0	507.4	619.8	624.9	633.9	672.2
57.5°	607.0	470.3	448.6	304.2	352.7	384.7	460.1	578.9	581.5	589.2	626.2
60°	530.4	339.9	411.5	267.1	300.3	324.6	416.6	530.4	539.3	544.4	576.4
62.5°	443.5	246.7	373.2	241.5	274.8	279.9	380.8	484.4	495.9	499.7	518.9
65°	315.7	207.0	316.9	219.8	247.9	249.2	342.5	437.1	447.3	453.7	467.7
67.5°	213.4	168.7	241.5	199.4	227.5	228.8	305.4	382.1	396.2	401.3	410.2
70°	148.2	112.5	178.9	177.6	204.5	207.0	265.8	332.3	345.1	348.9	354.0
72.5°	108.6	90.7	148.2	159.8	180.2	182.8	224.9	276.0	288.8	292.7	295.2
75°	83.1	95.8	120.1	139.3	153.4	154.6	184.0	224.9	233.9	236.4	237.7
77.5°	66.5	89.5	88.2	112.5	125.2	122.7	144.4	173.8	181.5	181.5	181.5
80°	49.8	70.3	66.5	80.5	92.0	89.5	103.5	124.0	126.5	129.1	127.8
82.5°	37.1	44.7	44.7	51.1	61.3	58.8	69.0	80.5	80.5	80.5	83.1
85°	23.0	25.6	20.4	26.8	34.5	33.2	38.3	43.5	44.7	44.7	42.2
87.5°	14.1	11.5	6.4	10.2	15.3	15.3	17.9	19.2	17.9	17.9	17.9
90°	13.8	9.5	5.3	9.5	13.8	14.9	23.4	34.8	40.4	35.9	26.9
92.5°	93.5	57.4	21.3	57.4	93.5	102.6	144.2	199.7	227.5	199.4	143.1
95°	183.4	117.2	51.0	117.2	183.4	199.9	354.9	561.6	665.0	593.4	450.2
97.5°	205.0	146.6	88.3	146.6	205.0	219.6	478.1	822.8	995.1	949.9	859.4
100°	222.8	169.9	117.0	169.9	222.8	236.0	522.9	905.3	1096.6	1099.9	1106.6
102.5°	240.2	190.8	141.4	190.8	240.2	252.5	543.5	931.4	1125.3	1183.0	1298.3
105°	266.5	224.7	182.8	224.7	266.5	277.0	558.7	934.4	1122.2	1251.4	1509.8
107.5°	303.4	264.4	225.4	264.4	303.4	313.1	561.6	892.7	1058.4	1238.6	1599.1
110°	324.5	289.3	254.1	289.3	324.5	333.3	557.3	855.9	1005.2	1206.7	1609.8



TEST NUMBER: P935171

CATALOG NUMBER: SQ4-FA-100U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	349.4	315.8	282.3	315.8	349.4	357.8	557.5	823.7	956.8	1163.1	1575.6
115°	386.6	355.7	324.8	355.7	386.6	394.4	562.6	786.7	898.9	1097.5	1495.0
117.5°	423.0	394.9	366.8	394.9	423.0	430.0	573.0	763.6	859.0	1038.3	1396.9
120°	444.1	417.7	391.2	417.7	444.1	450.8	581.6	755.9	843.1	1006.9	1334.6
122.5°	468.6	441.8	415.2	441.8	468.6	475.2	593.8	751.8	830.9	978.4	1273.5
125°	500.6	476.2	451.8	476.2	500.6	506.6	610.3	748.5	817.6	942.9	1193.6
127.5°	530.8	506.2	481.6	506.2	530.8	536.9	626.7	746.5	806.4	914.0	1129.2
130°	550.5	524.1	497.6	524.1	550.5	557.1	638.8	747.7	802.2	897.9	1089.5
132.5°	566.9	540.5	514.0	540.5	566.9	573.6	648.5	748.5	798.4	884.2	1055.7
135°	586.7	562.6	538.5	562.6	586.7	592.7	659.2	747.7	792.0	863.8	1007.5
137.5°	611.2	587.3	563.4	587.3	611.2	617.2	675.1	752.4	791.0	851.7	973.2
140°	628.2	606.2	584.2	606.2	628.2	633.6	684.8	753.1	787.2	839.7	944.6
142.5°	640.8	620.5	600.1	620.5	640.8	645.9	693.0	755.8	787.2	833.3	925.4
145°	660.0	642.3	624.6	642.3	660.0	664.5	703.7	755.9	782.0	819.6	895.0
147.5°	683.5	666.3	649.1	666.3	683.5	687.8	719.2	761.0	782.0	811.6	870.9
150°	696.2	680.6	665.0	680.6	696.2	700.1	727.4	763.7	782.0	807.0	857.0
152.5°	705.1	693.4	681.5	693.4	705.1	708.1	732.7	765.5	782.0	803.4	846.1
155°	723.3	714.7	706.0	714.7	723.3	725.6	744.4	769.4	782.0	799.0	833.0
157.5°	741.0	732.5	724.0	732.5	741.0	743.1	756.1	773.4	782.0	795.2	821.7
160°	749.5	742.9	736.2	742.9	749.5	751.1	761.4	775.1	782.0	793.3	816.0
162.5°	758.4	753.4	748.5	753.4	758.4	759.6	767.1	777.0	782.0	791.5	810.7
165°	770.7	766.2	761.8	766.2	770.7	771.8	775.2	779.8	782.0	788.8	802.5
167.5°	778.2	776.1	774.0	776.1	778.2	778.7	781.5	785.4	787.2	791.8	800.7
170°	786.2	784.1	782.0	784.1	786.2	786.7	786.9	787.2	787.2	791.8	800.7
172.5°	787.2	786.7	786.2	786.7	787.2	787.2	787.2	787.2	787.2	790.8	797.9
175°	792.0	792.0	792.0	792.0	792.0	792.0	790.4	788.3	787.2	789.5	794.0
177.5°	792.0	792.0	792.0	792.0	792.0	792.0	790.8	789.2	788.4	790.1	793.6
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0



TEST NUMBER: P935171
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1303.6	1299.7	1304.8	1290.8	1304.8	1299.7	1303.6	1312.5	1304.8	1310.0	1315.1
5°	1143.8	1137.4	1117.0	1100.4	1117.0	1137.4	1143.8	1170.6	1183.4	1206.4	1237.1
7.5°	1022.4	1017.3	1012.2	1002.0	1012.2	1017.3	1022.4	1030.1	1042.8	1063.3	1086.3
10°	995.6	996.8	1004.5	1003.2	1004.5	996.8	995.6	993.0	989.2	993.0	1007.1
12.5°	1064.6	1076.1	1118.2	1115.7	1118.2	1076.1	1064.6	1013.5	978.9	972.6	975.1
15°	1143.8	1147.6	1156.6	1157.9	1156.6	1147.6	1143.8	1123.4	1019.8	975.1	961.1
17.5°	1151.5	1152.8	1159.1	1159.1	1159.1	1152.8	1151.5	1142.5	1108.0	1048.0	968.7
20°	1145.1	1147.6	1160.4	1163.0	1160.4	1147.6	1145.1	1133.6	1114.4	1092.7	1032.6
22.5°	1142.5	1147.6	1157.9	1156.6	1157.9	1147.6	1142.5	1124.6	1108.0	1092.7	1068.4
25°	1129.8	1129.8	1131.0	1132.3	1131.0	1129.8	1129.8	1115.7	1082.5	1078.6	1064.6
27.5°	1102.9	1105.5	1113.1	1111.9	1113.1	1105.5	1102.9	1097.8	1062.0	1058.2	1048.0
30°	1078.6	1076.1	1069.7	1064.6	1069.7	1076.1	1078.6	1071.0	1035.2	1025.0	1027.5
32.5°	1037.7	1031.3	1025.0	1021.1	1025.0	1031.3	1037.7	1035.2	1008.3	994.3	996.8
35°	989.2	990.4	989.2	985.3	989.2	990.4	989.2	991.7	975.1	962.3	961.1
37.5°	954.7	957.2	955.9	950.8	955.9	957.2	954.7	952.1	929.1	925.3	927.8
40°	918.9	920.2	918.9	915.0	918.9	920.2	918.9	913.8	881.8	883.1	892.0
42.5°	884.4	883.1	879.3	876.7	879.3	883.1	884.4	876.7	835.8	832.0	848.6
45°	844.8	846.0	838.4	834.5	838.4	846.0	844.8	839.6	797.5	787.2	798.8
47.5°	805.1	805.1	798.8	794.9	798.8	805.1	805.1	798.8	754.0	743.8	750.2
50°	763.0	761.7	752.7	751.5	752.7	761.7	763.0	759.1	711.8	702.9	702.9
52.5°	714.4	714.4	715.7	718.2	715.7	714.4	714.4	715.7	673.5	664.6	662.0
55°	672.2	673.5	682.5	685.0	682.5	673.5	672.2	672.2	633.9	624.9	619.8
57.5°	628.8	628.8	635.2	635.2	635.2	628.8	628.8	626.2	589.2	581.5	578.9
60°	578.9	581.5	586.6	585.3	586.6	581.5	578.9	576.4	544.4	539.3	530.4
62.5°	526.5	529.1	530.4	527.8	530.4	529.1	526.5	518.9	499.7	495.9	484.4
65°	471.6	474.1	475.4	472.9	475.4	474.1	471.6	467.7	453.7	447.3	437.1
67.5°	415.4	414.1	412.8	417.9	412.8	414.1	415.4	410.2	401.3	396.2	382.1
70°	357.8	357.8	356.6	359.1	356.6	357.8	357.8	354.0	348.9	345.1	332.3
72.5°	296.5	295.2	300.3	296.5	300.3	295.2	296.5	295.2	292.7	288.8	276.0
75°	236.4	239.0	236.4	240.3	236.4	239.0	236.4	237.7	236.4	233.9	224.9
77.5°	180.2	182.8	180.2	180.2	180.2	182.8	180.2	181.5	181.5	181.5	173.8
80°	127.8	126.5	126.5	125.2	126.5	126.5	127.8	127.8	129.1	126.5	124.0
82.5°	81.8	80.5	80.5	83.1	80.5	80.5	81.8	83.1	80.5	80.5	80.5
85°	44.7	46.0	43.5	43.5	43.5	46.0	44.7	42.2	44.7	44.7	43.5
87.5°	16.6	15.3	15.3	15.3	15.3	15.3	16.6	17.9	17.9	17.9	19.2
90°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	26.9	35.9	40.4	34.8
92.5°	101.0	97.0	80.9	64.8	80.9	97.0	101.0	143.1	199.4	227.5	199.7
95°	342.8	330.7	282.0	233.4	282.0	330.7	342.8	450.2	593.4	665.0	561.6
97.5°	791.5	768.3	675.7	583.1	675.7	768.3	791.5	859.4	949.9	995.1	822.8
100°	1111.5	1083.9	973.6	863.2	973.6	1083.9	1111.5	1106.6	1099.9	1096.6	905.3
102.5°	1384.8	1361.2	1266.6	1172.1	1266.6	1361.2	1384.8	1298.3	1183.0	1125.3	931.4
105°	1703.7	1691.0	1640.2	1589.4	1640.2	1691.0	1703.7	1509.8	1251.4	1122.2	934.4
107.5°	1869.5	1872.6	1885.0	1897.2	1885.0	1872.6	1869.5	1599.1	1238.6	1058.4	892.7
110°	1912.1	1925.3	1978.3	2031.2	1978.3	1925.3	1912.1	1609.8	1206.7	1005.2	855.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1885.0	1905.2	1986.5	2067.8	1986.5	1905.2	1885.0	1575.6	1163.1	956.8	823.7
115°	1793.0	1821.2	1933.9	2046.6	1933.9	1821.2	1793.0	1495.0	1097.5	898.9	786.7
117.5°	1665.9	1697.2	1822.2	1947.2	1822.2	1697.2	1665.9	1396.9	1038.3	859.0	763.6
120°	1580.4	1610.7	1732.2	1853.6	1732.2	1610.7	1580.4	1334.6	1006.9	843.1	755.9
122.5°	1494.7	1524.7	1644.5	1764.3	1644.5	1524.7	1494.7	1273.5	978.4	830.9	751.8
125°	1381.6	1409.2	1519.5	1629.8	1519.5	1409.2	1381.6	1193.6	942.9	817.6	748.5
127.5°	1290.7	1314.0	1407.1	1500.1	1407.1	1314.0	1290.7	1129.2	914.0	806.4	746.5
130°	1233.3	1254.7	1340.8	1426.8	1340.8	1254.7	1233.3	1089.5	897.9	802.2	747.7
132.5°	1184.4	1203.6	1280.6	1357.7	1280.6	1203.6	1184.4	1055.7	884.2	798.4	748.5
135°	1115.3	1131.9	1198.3	1264.6	1198.3	1131.9	1115.3	1007.5	863.8	792.0	747.7
137.5°	1064.2	1077.8	1132.1	1186.5	1132.1	1077.8	1064.2	973.2	851.7	791.0	752.4
140°	1023.3	1035.9	1086.8	1137.6	1086.8	1035.9	1023.3	944.6	839.7	787.2	753.1
142.5°	994.5	1005.4	1049.2	1092.9	1049.2	1005.4	994.5	925.4	833.3	787.2	755.8
145°	951.5	959.8	992.9	1026.0	992.9	959.8	951.5	895.0	819.6	782.0	755.9
147.5°	915.4	922.2	949.6	977.1	949.6	922.2	915.4	870.9	811.6	782.0	761.0
150°	894.6	900.1	922.4	944.6	922.4	900.1	894.6	857.0	807.0	782.0	763.7
152.5°	878.2	882.3	899.1	915.9	899.1	882.3	878.2	846.1	803.4	782.0	765.5
155°	858.5	861.3	872.4	883.4	872.4	861.3	858.5	833.0	799.0	782.0	769.4
157.5°	841.5	843.5	851.2	859.0	851.2	843.5	841.5	821.7	795.2	782.0	773.4
160°	833.0	834.1	838.6	843.1	838.6	834.1	833.0	816.0	793.3	782.0	775.1
162.5°	825.0	826.0	830.3	834.5	830.3	826.0	825.0	810.7	791.5	782.0	777.0
165°	812.8	813.9	818.4	822.9	818.4	813.9	812.8	802.5	788.8	782.0	779.8
167.5°	807.4	808.0	809.8	811.7	809.8	808.0	807.4	800.7	791.8	787.2	785.4
170°	807.4	807.4	807.4	807.4	807.4	807.4	807.4	800.7	791.8	787.2	787.2
172.5°	803.2	802.8	801.1	799.5	801.1	802.8	803.2	797.9	790.8	787.2	787.2
175°	797.4	797.4	797.4	797.4	797.4	797.4	797.4	794.0	789.5	787.2	788.3
177.5°	796.3	795.8	793.9	792.0	793.9	795.8	796.3	793.6	790.1	788.4	789.2
180°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1334.2	1340.6	1344.5	1349.6	1362.3
5°	1283.1	1307.4	1315.1	1334.2	1357.2
7.5°	1170.6	1244.8	1265.2	1311.2	1347.0
10°	1062.0	1136.1	1171.9	1280.6	1334.2
12.5°	1007.1	1050.5	1074.8	1226.9	1316.3
15°	972.6	1003.2	1021.1	1155.3	1295.9
17.5°	945.7	967.4	980.2	1085.0	1267.8
20°	929.1	939.3	950.8	1033.9	1235.8
22.5°	917.6	911.2	920.2	998.1	1192.4
25°	909.9	885.7	895.9	970.0	1141.3
27.5°	916.3	862.6	866.5	944.4	1087.6
30°	917.6	834.5	835.8	917.6	1027.5
32.5°	908.7	805.1	806.4	884.4	959.8
35°	886.9	770.6	769.4	846.0	867.8
37.5°	857.5	733.6	733.6	803.9	766.8
40°	821.8	696.5	700.3	748.9	677.3
42.5°	778.3	656.9	662.0	676.1	610.9
45°	731.0	618.6	622.4	571.3	559.8
47.5°	678.6	578.9	580.2	474.1	543.2
50°	616.0	538.0	532.9	406.4	541.9
52.5°	561.0	493.3	478.0	368.1	492.0
55°	507.4	446.0	412.8	338.7	456.2
57.5°	460.1	384.7	352.7	304.2	448.6
60°	416.6	324.6	300.3	267.1	411.5
62.5°	380.8	279.9	274.8	241.5	373.2
65°	342.5	249.2	247.9	219.8	316.9
67.5°	305.4	228.8	227.5	199.4	241.5
70°	265.8	207.0	204.5	177.6	178.9
72.5°	224.9	182.8	180.2	159.8	148.2
75°	184.0	154.6	153.4	139.3	120.1
77.5°	144.4	122.7	125.2	112.5	88.2
80°	103.5	89.5	92.0	80.5	66.5
82.5°	69.0	58.8	61.3	51.1	44.7
85°	38.3	33.2	34.5	26.8	20.4
87.5°	17.9	15.3	15.3	10.2	6.4
90°	23.4	14.9	13.8	9.5	5.3
92.5°	144.2	102.6	93.5	57.4	21.3
95°	354.9	199.9	183.4	117.2	51.0
97.5°	478.1	219.6	205.0	146.6	88.3
100°	522.9	236.0	222.8	169.9	117.0
102.5°	543.5	252.5	240.2	190.8	141.4
105°	558.7	277.0	266.5	224.7	182.8
107.5°	561.6	313.1	303.4	264.4	225.4
110°	557.3	333.3	324.5	289.3	254.1



TEST NUMBER: P935171

CATALOG NUMBER: SQ4-FA-100U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	557.5	357.8	349.4	315.8	282.3
115°	562.6	394.4	386.6	355.7	324.8
117.5°	573.0	430.0	423.0	394.9	366.8
120°	581.6	450.8	444.1	417.7	391.2
122.5°	593.8	475.2	468.6	441.8	415.2
125°	610.3	506.6	500.6	476.2	451.8
127.5°	626.7	536.9	530.8	506.2	481.6
130°	638.8	557.1	550.5	524.1	497.6
132.5°	648.5	573.6	566.9	540.5	514.0
135°	659.2	592.7	586.7	562.6	538.5
137.5°	675.1	617.2	611.2	587.3	563.4
140°	684.8	633.6	628.2	606.2	584.2
142.5°	693.0	645.9	640.8	620.5	600.1
145°	703.7	664.5	660.0	642.3	624.6
147.5°	719.2	687.8	683.5	666.3	649.1
150°	727.4	700.1	696.2	680.6	665.0
152.5°	732.7	708.1	705.1	693.4	681.5
155°	744.4	725.6	723.3	714.7	706.0
157.5°	756.1	743.1	741.0	732.5	724.0
160°	761.4	751.1	749.5	742.9	736.2
162.5°	767.1	759.6	758.4	753.4	748.5
165°	775.2	771.8	770.7	766.2	761.8
167.5°	781.5	778.7	778.2	776.1	774.0
170°	786.9	786.7	786.2	784.1	782.0
172.5°	787.2	787.2	787.2	786.7	786.2
175°	790.4	792.0	792.0	792.0	792.0
177.5°	790.8	792.0	792.0	792.0	792.0
180°	792.0	792.0	792.0	792.0	792.0



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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	11.24	12.02	12.27	13.06	14.46	14.06	14.85	15.10	15.89	17.29
	3H	11.71	12.41	12.75	13.46	14.88	15.40	16.10	16.45	17.15	18.57
	4H	11.90	12.56	12.95	13.61	15.04	15.84	16.50	16.90	17.56	18.98
	6H	12.01	12.62	13.08	13.68	15.12	16.12	16.73	17.19	17.79	19.23
	8H	12.01	12.59	13.08	13.67	15.10	16.19	16.77	17.26	17.85	19.28
	12H	11.98	12.53	13.06	13.60	15.06	16.23	16.78	17.30	17.84	19.30
4H	2H	12.26	12.93	13.32	13.98	15.40	14.46	15.13	15.53	16.18	17.61
	3H	13.28	13.83	14.35	14.91	16.35	15.96	16.51	17.03	17.59	19.03
	4H	13.55	14.06	14.63	15.13	16.59	16.48	16.99	17.56	18.06	19.52
	6H	13.67	14.11	14.76	15.20	16.66	16.84	17.28	17.93	18.37	19.83
	8H	13.68	14.08	14.76	15.17	16.64	16.95	17.35	18.03	18.44	19.91
	12H	13.64	14.01	14.74	15.11	16.58	17.00	17.37	18.10	18.47	19.94
8H	4H	14.00	14.41	15.09	15.49	16.96	16.60	17.01	17.69	18.09	19.57
	6H	14.26	14.59	15.37	15.72	17.19	17.03	17.37	18.14	18.50	19.96
	8H	14.30	14.59	15.41	15.70	17.19	17.18	17.48	18.30	18.59	20.08
	12H	14.28	14.54	15.40	15.64	17.17	17.28	17.54	18.40	18.64	20.17
12H	4H	14.00	14.37	15.10	15.47	16.94	16.56	16.93	17.67	18.03	19.51
	6H	14.32	14.61	15.43	15.72	17.21	17.03	17.32	18.14	18.43	19.92
	8H	14.38	14.64	15.50	15.75	17.27	17.19	17.45	18.31	18.55	20.08