

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: P935075

Luminaire Tested: SQ4-FA-100U-050D-940-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935075
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

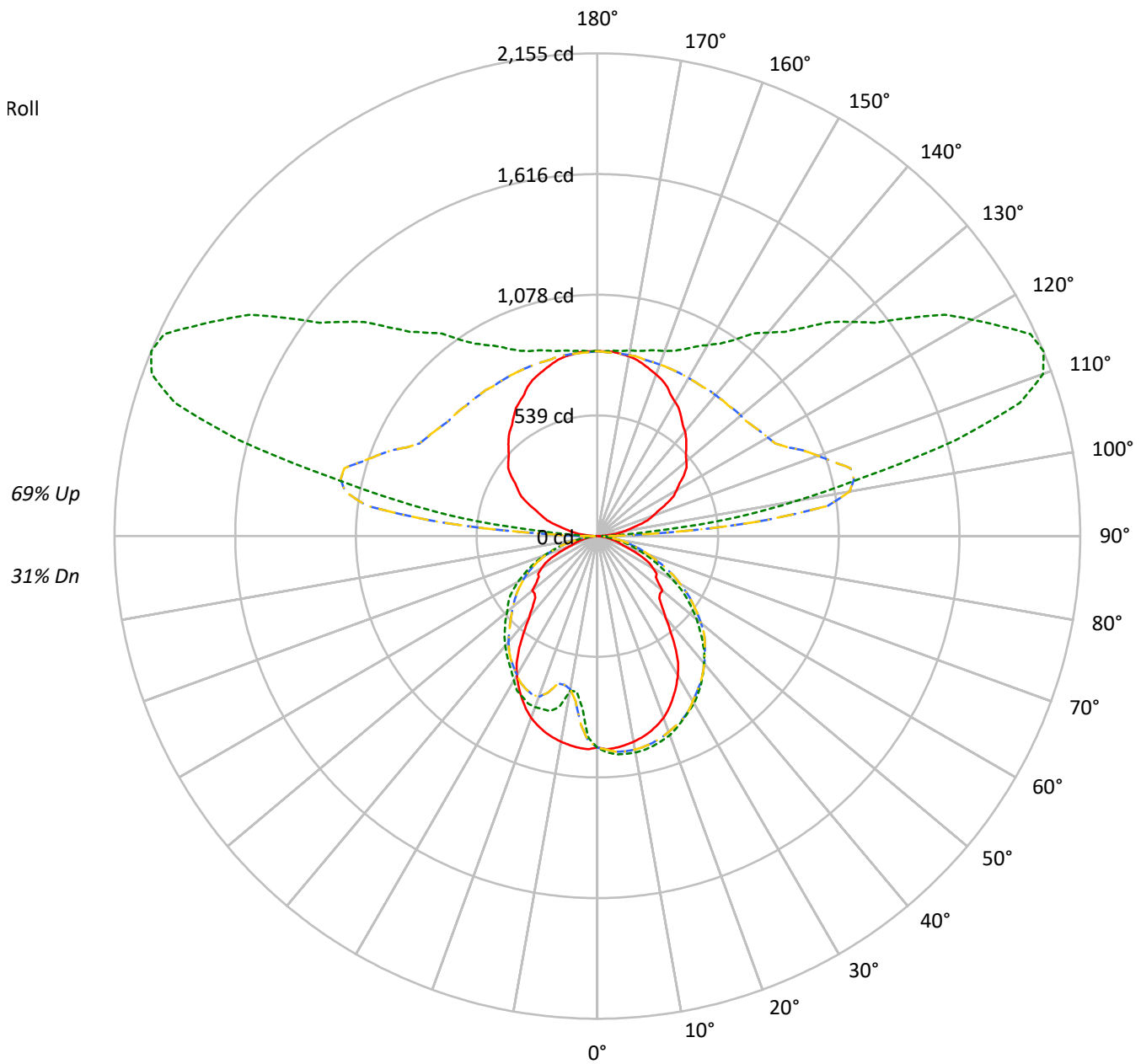
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7802.9 lumens
Efficiency: N/A
Efficacy: 126.3 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-Indirect

Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P935075
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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5841	5841	5841	5841
5°	5883	5896	5883	4636
10°	5841	5808	5841	4153
15°	5775	5683	5775	4745
20°	5652	5533	5652	4755
25°	5403	5316	5403	4654
30°	5081	5136	5081	4433
35°	4528	4907	4528	4189
40°	3771	4639	3771	4006
45°	3367	4323	3367	3795
50°	3574	3949	3574	3583
55°	3359	3544	3359	3460
60°	3458	3010	3458	3169
65°	3132	2488	3132	2781
70°	2162	1983	2162	2331
75°	1890	1465	1890	1755
80°	1510	969	1510	1056
85°	853	513	853	437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5164 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.1
10°-20°	242.0	3.1
20°-30°	374.1	4.8
30°-40°	446.6	5.7
40°-50°	449.2	5.8
50°-60°	390.9	5.0
60°-70°	277.1	3.6
70°-80°	146.6	1.9
80°-90°	39.7	0.5
90°-100°	402.4	5.2
100°-110°	1057.9	13.6
110°-120°	1096.9	14.1
120°-130°	879.9	11.3
130°-140°	690.4	8.8
140°-150°	529.9	6.8
150°-160°	381.6	4.9
160°-170°	233.5	3.0
170°-180°	78.9	1.0
0°-30°	701.3	9.0
0°-40°	1147.9	14.7
0°-60°	1988.0	25.5
0°-90°	2451.4	31.4
90°-120°	2557.3	32.8
90°-150°	4657.5	59.7
90°-180°	5352.0	68.6
0°-180°	7802.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	944	944	944	944	944	
5°	949	978	949	769	949	90
15°	906	969	906	809	906	255
25°	798	904	798	792	798	366
35°	607	807	607	689	607	375
45°	391	665	391	583	391	313
55°	319	490	319	479	319	293
65°	222	296	222	330	222	212
75°	84	140	84	168	84	88
85°	14	36	14	30	14	19
90°	6	21	6	21	6	5
95°	53	243	53	243	53	59
105°	191	1657	191	1657	191	202
115°	338	2133	338	2133	338	334
125°	471	1699	471	1699	471	418
135°	561	1318	561	1318	561	434
145°	651	1069	651	1069	651	408
155°	736	921	736	921	736	338
165°	794	858	794	858	794	224
175°	826	831	826	831	826	78
180°	826	826	826	826	826	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	952.3	952.3	957.6	959.4	959.4	956.7	954.1	956.7	964.8	967.5	966.6
5°	948.7	955.8	965.7	967.5	969.3	968.4	966.6	968.4	977.2	979.1	980.0
7.5°	941.5	955.0	967.5	970.1	972.8	970.1	969.3	971.0	980.0	981.8	981.8
10°	932.6	951.4	965.7	967.5	970.1	967.5	967.5	971.0	980.0	981.8	982.7
12.5°	920.1	946.0	959.4	961.2	964.8	963.9	962.9	966.6	975.5	977.2	977.2
15°	905.8	936.2	948.7	950.5	956.7	955.0	955.0	958.5	968.4	971.0	970.1
17.5°	886.1	923.7	938.0	940.7	945.1	944.2	945.1	948.7	957.6	959.4	960.3
20°	863.8	906.7	923.7	926.4	930.8	930.8	930.8	935.3	944.2	947.8	947.8
22.5°	833.5	888.8	906.7	908.5	913.8	913.8	915.6	921.9	929.9	930.8	930.8
25°	797.7	869.2	884.4	889.8	895.1	897.8	900.4	904.1	906.7	905.8	906.7
27.5°	760.2	844.1	863.8	867.4	874.6	877.3	880.8	881.7	882.6	885.2	883.5
30°	718.2	809.3	838.8	842.4	854.0	855.8	852.2	854.0	858.4	860.3	862.1
32.5°	670.9	757.6	812.9	821.0	831.7	826.3	825.4	828.1	835.3	835.3	837.0
35°	606.6	717.3	788.8	795.9	804.0	797.7	801.3	802.2	806.7	809.3	808.4
37.5°	536.0	682.5	763.8	769.1	775.4	767.3	772.7	775.4	779.0	777.2	777.2
40°	473.5	628.0	734.3	737.8	743.3	737.0	742.4	744.1	745.9	744.1	743.3
42.5°	427.0	568.1	703.0	707.5	703.9	708.4	710.2	713.8	711.1	707.5	707.5
45°	391.3	552.1	669.1	674.4	669.1	676.2	678.9	678.9	670.9	669.1	668.2
47.5°	379.6	519.9	635.2	635.2	632.4	641.4	645.8	639.6	631.5	628.9	628.9
50°	378.7	484.1	588.7	585.1	597.6	608.4	603.8	597.6	591.4	581.6	581.6
52.5°	343.9	440.4	528.8	542.2	561.9	568.1	561.0	554.7	544.0	539.5	536.0
55°	318.9	394.8	474.4	501.2	521.7	529.7	516.4	510.1	494.0	491.3	489.6
57.5°	313.6	328.7	424.3	458.3	483.2	482.4	474.4	462.7	449.3	446.7	445.8
60°	287.6	237.6	370.7	411.0	436.8	434.1	427.0	416.3	403.8	402.0	400.2
62.5°	260.8	172.4	310.0	355.6	392.1	391.3	385.0	369.0	360.0	355.6	352.0
65°	221.6	144.7	220.7	295.7	348.4	350.1	336.8	325.2	315.3	310.0	309.1
67.5°	168.8	117.9	149.2	246.6	306.4	304.6	287.6	282.3	269.8	267.1	261.8
70°	125.0	78.6	103.6	200.1	265.3	260.8	247.5	241.2	229.5	223.3	219.8
72.5°	103.6	63.4	75.9	155.4	223.3	218.0	206.4	199.2	189.4	184.0	180.4
75°	84.0	67.0	58.1	115.3	181.3	177.8	167.0	159.9	151.8	144.7	145.6
77.5°	61.6	62.5	46.4	84.9	143.9	138.4	132.2	123.3	119.7	112.6	112.6
80°	46.4	49.1	34.8	58.1	103.6	103.6	98.3	92.0	85.8	82.2	82.2
82.5°	31.3	31.3	25.9	36.6	70.6	67.9	64.3	62.5	59.0	57.2	57.2
85°	14.3	17.8	16.1	22.3	38.5	40.2	40.2	38.5	37.6	35.7	36.6
87.5°	4.4	8.1	9.9	12.5	19.6	20.5	21.4	21.4	21.4	22.3	22.3
90°	5.5	9.9	14.4	15.5	24.4	36.2	42.1	37.4	28.1	21.0	21.0
92.5°	22.2	59.9	97.5	106.9	150.3	208.1	237.1	207.8	149.2	105.2	101.1
95°	53.2	122.1	191.1	208.3	369.9	585.4	693.1	618.5	469.2	357.3	344.6
97.5°	92.0	152.8	213.7	228.8	498.3	857.5	1037.2	990.0	895.7	825.0	800.8
100°	121.9	177.1	232.2	246.0	545.0	943.6	1142.9	1146.4	1153.3	1158.5	1129.7
102.5°	147.4	198.9	250.3	263.2	566.5	970.8	1172.9	1233.0	1353.1	1443.3	1418.7
105°	190.6	234.2	277.8	288.7	582.4	973.9	1169.6	1304.3	1573.6	1775.6	1762.4
107.5°	234.9	275.5	316.2	326.3	585.3	930.4	1103.1	1291.0	1666.7	1948.5	1951.7
110°	264.8	301.5	338.2	347.4	580.8	892.1	1047.7	1257.7	1677.8	1992.8	2006.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	294.2	329.2	364.2	372.9	581.0	858.5	997.2	1212.2	1642.2	1964.6	1985.7
115°	338.5	370.7	403.0	411.1	586.3	820.0	936.8	1143.9	1558.2	1868.8	1898.2
117.5°	382.3	411.6	440.9	448.2	597.2	795.9	895.3	1082.2	1456.0	1736.3	1768.9
120°	407.8	435.4	462.9	469.8	606.1	787.8	878.7	1049.4	1391.0	1647.2	1678.8
122.5°	432.7	460.5	488.4	495.3	618.8	783.6	866.0	1019.8	1327.3	1557.9	1589.2
125°	470.9	496.3	521.7	528.0	636.1	780.1	852.1	982.7	1244.0	1440.0	1468.8
127.5°	502.0	527.6	553.2	559.6	653.2	778.1	840.5	952.6	1177.0	1345.2	1369.5
130°	518.6	546.2	573.7	580.7	665.8	779.3	836.1	935.9	1135.6	1285.4	1307.8
132.5°	535.7	563.3	590.9	597.8	675.9	780.1	832.1	921.6	1100.3	1234.4	1254.5
135°	561.2	586.3	611.5	617.8	687.0	779.3	825.5	900.3	1050.1	1162.4	1179.7
137.5°	587.2	612.1	637.1	643.3	703.7	784.2	824.4	887.7	1014.3	1109.2	1123.3
140°	608.9	631.8	654.7	660.4	713.8	784.9	820.5	875.2	984.5	1066.5	1079.7
142.5°	625.5	646.7	667.9	673.2	722.3	787.7	820.5	868.6	964.5	1036.6	1047.9
145°	651.0	669.5	687.9	692.6	733.4	787.8	815.0	854.3	932.8	991.7	1000.3
147.5°	676.5	694.4	712.4	716.9	749.6	793.2	815.0	845.9	907.7	954.1	961.2
150°	693.1	709.3	725.6	729.7	758.1	796.0	815.0	841.1	893.2	932.4	938.2
152.5°	710.3	722.7	734.9	738.0	763.7	797.9	815.0	837.3	881.9	915.3	919.6
155°	735.8	744.9	753.9	756.2	775.8	802.0	815.0	832.8	868.2	894.7	897.7
157.5°	754.6	763.5	772.3	774.5	788.0	806.0	815.0	828.8	856.4	877.1	879.1
160°	767.3	774.2	781.2	782.9	793.6	807.9	815.0	826.8	850.4	868.2	869.4
162.5°	780.1	785.3	790.4	791.7	799.5	809.9	815.0	825.0	844.9	859.9	860.9
165°	794.0	798.6	803.3	804.4	808.0	812.7	815.0	822.1	836.4	847.2	848.3
167.5°	806.7	808.9	811.1	811.6	814.6	818.6	820.5	825.2	834.5	841.6	842.1
170°	815.0	817.2	819.4	820.0	820.2	820.4	820.5	825.2	834.5	841.6	841.6
172.5°	819.4	819.9	820.4	820.5	820.5	820.5	820.5	824.2	831.6	837.1	836.7
175°	825.5	825.5	825.5	825.5	823.8	821.6	820.5	822.8	827.5	831.1	831.1
177.5°	825.5	825.5	825.5	825.5	824.2	822.6	821.7	823.5	827.2	829.9	829.4
180°	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	968.4	965.7	968.4	966.6	967.5	964.8	956.7	954.1	956.7	959.4	959.4
5°	980.0	978.1	980.0	980.0	979.1	977.2	968.4	966.6	968.4	969.3	967.5
7.5°	983.5	980.9	983.5	981.8	981.8	980.0	971.0	969.3	970.1	972.8	970.1
10°	983.5	980.9	983.5	982.7	981.8	980.0	971.0	967.5	967.5	970.1	967.5
12.5°	979.1	977.2	979.1	977.2	977.2	975.5	966.6	962.9	963.9	964.8	961.2
15°	971.9	969.3	971.9	970.1	971.0	968.4	958.5	955.0	955.0	956.7	950.5
17.5°	961.2	957.6	961.2	960.3	959.4	957.6	948.7	945.1	944.2	945.1	940.7
20°	948.7	946.0	948.7	947.8	947.8	944.2	935.3	930.8	930.8	930.8	926.4
22.5°	929.0	926.4	929.0	930.8	930.8	929.9	921.9	915.6	913.8	913.8	908.5
25°	906.7	904.1	906.7	906.7	905.8	906.7	904.1	900.4	897.8	895.1	889.8
27.5°	885.2	883.5	885.2	883.5	885.2	882.6	881.7	880.8	877.3	874.6	867.4
30°	863.8	862.1	863.8	862.1	860.3	858.4	854.0	852.2	855.8	854.0	842.4
32.5°	837.0	835.3	837.0	837.0	835.3	835.3	828.1	825.4	826.3	831.7	821.0
35°	809.3	806.7	809.3	808.4	809.3	806.7	802.2	801.3	797.7	804.0	795.9
37.5°	777.2	774.5	777.2	777.2	777.2	779.0	775.4	772.7	767.3	775.4	769.1
40°	744.1	740.6	744.1	743.3	744.1	745.9	744.1	742.4	737.0	743.3	737.8
42.5°	706.6	705.7	706.6	707.5	707.5	711.1	713.8	710.2	708.4	703.9	707.5
45°	666.4	664.6	666.4	668.2	669.1	670.9	678.9	678.9	676.2	669.1	674.4
47.5°	623.6	619.0	623.6	628.9	628.9	631.5	639.6	645.8	641.4	632.4	635.2
50°	578.0	578.9	578.0	581.6	581.6	591.4	597.6	603.8	608.4	597.6	585.1
52.5°	533.3	532.4	533.3	536.0	539.5	544.0	554.7	561.0	568.1	561.9	542.2
55°	488.7	490.4	488.7	489.6	491.3	494.0	510.1	516.4	529.7	521.7	501.2
57.5°	444.0	441.3	444.0	445.8	446.7	449.3	462.7	474.4	482.4	483.2	458.3
60°	392.1	388.6	392.1	400.2	402.0	403.8	416.3	427.0	434.1	436.8	411.0
62.5°	346.6	340.4	346.6	352.0	355.6	360.0	369.0	385.0	391.3	392.1	355.6
65°	298.4	295.7	298.4	309.1	310.0	315.3	325.2	336.8	350.1	348.4	295.7
67.5°	254.6	254.6	254.6	261.8	267.1	269.8	282.3	287.6	304.6	306.4	246.6
70°	214.4	213.5	214.4	219.8	223.3	229.5	241.2	247.5	260.8	265.3	200.1
72.5°	176.0	175.1	176.0	180.4	184.0	189.4	199.2	206.4	218.0	223.3	155.4
75°	142.1	140.2	142.1	145.6	144.7	151.8	159.9	167.0	177.8	181.3	115.3
77.5°	109.0	109.0	109.0	112.6	112.6	119.7	123.3	132.2	138.4	143.9	84.9
80°	81.3	80.4	81.3	82.2	82.2	85.8	92.0	98.3	103.6	103.6	58.1
82.5°	57.2	55.4	57.2	57.2	57.2	59.0	62.5	64.3	67.9	70.6	36.6
85°	35.7	35.7	35.7	36.6	35.7	37.6	38.5	40.2	40.2	38.5	22.3
87.5°	23.3	22.3	23.3	22.3	22.3	21.4	21.4	21.4	20.5	19.6	12.5
90°	21.0	21.0	21.0	21.0	21.0	28.1	37.4	42.1	36.2	24.4	15.5
92.5°	84.3	67.6	84.3	101.1	105.2	149.2	207.8	237.1	208.1	150.3	106.9
95°	293.9	243.2	293.9	344.6	357.3	469.2	618.5	693.1	585.4	369.9	208.3
97.5°	704.3	607.7	704.3	800.8	825.0	895.7	990.0	1037.2	857.5	498.3	228.8
100°	1014.7	899.7	1014.7	1129.7	1158.5	1153.3	1146.4	1142.9	943.6	545.0	246.0
102.5°	1320.1	1221.6	1320.1	1418.7	1443.3	1353.1	1233.0	1172.9	970.8	566.5	263.2
105°	1709.5	1656.6	1709.5	1762.4	1775.6	1573.6	1304.3	1169.6	973.9	582.4	288.7
107.5°	1964.6	1977.4	1964.6	1951.7	1948.5	1666.7	1291.0	1103.1	930.4	585.3	326.3
110°	2061.8	2117.0	2061.8	2006.6	1992.8	1677.8	1257.7	1047.7	892.1	580.8	347.4



TEST NUMBER: P935075

CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2070.5	2155.2	2070.5	1985.7	1964.6	1642.2	1212.2	997.2	858.5	581.0	372.9
115°	2015.6	2133.1	2015.6	1898.2	1868.8	1558.2	1143.9	936.8	820.0	586.3	411.1
117.5°	1899.2	2029.4	1899.2	1768.9	1736.3	1456.0	1082.2	895.3	795.9	597.2	448.2
120°	1805.4	1931.9	1805.4	1678.8	1647.2	1391.0	1049.4	878.7	787.8	606.1	469.8
122.5°	1714.0	1838.9	1714.0	1589.2	1557.9	1327.3	1019.8	866.0	783.6	618.8	495.3
125°	1583.7	1698.7	1583.7	1468.8	1440.0	1244.0	982.7	852.1	780.1	636.1	528.0
127.5°	1466.5	1563.5	1466.5	1369.5	1345.2	1177.0	952.6	840.5	778.1	653.2	559.6
130°	1397.4	1487.0	1397.4	1307.8	1285.4	1135.6	935.9	836.1	779.3	665.8	580.7
132.5°	1334.8	1415.0	1334.8	1254.5	1234.4	1100.3	921.6	832.1	780.1	675.9	597.8
135°	1248.9	1318.1	1248.9	1179.7	1162.4	1050.1	900.3	825.5	779.3	687.0	617.8
137.5°	1180.0	1236.6	1180.0	1123.3	1109.2	1014.3	887.7	824.4	784.2	703.7	643.3
140°	1132.7	1185.7	1132.7	1079.7	1066.5	984.5	875.2	820.5	784.9	713.8	660.4
142.5°	1093.6	1139.1	1093.6	1047.9	1036.6	964.5	868.6	820.5	787.7	722.3	673.2
145°	1034.9	1069.3	1034.9	1000.3	991.7	932.8	854.3	815.0	787.8	733.4	692.6
147.5°	989.8	1018.4	989.8	961.2	954.1	907.7	845.9	815.0	793.2	749.6	716.9
150°	961.3	984.5	961.3	938.2	932.4	893.2	841.1	815.0	796.0	758.1	729.7
152.5°	937.1	954.6	937.1	919.6	915.3	881.9	837.3	815.0	797.9	763.7	738.0
155°	909.2	920.8	909.2	897.7	894.7	868.2	832.8	815.0	802.0	775.8	756.2
157.5°	887.2	895.3	887.2	879.1	877.1	856.4	828.8	815.0	806.0	788.0	774.5
160°	874.1	878.7	874.1	869.4	868.2	850.4	826.8	815.0	807.9	793.6	782.9
162.5°	865.4	869.8	865.4	860.9	859.9	844.9	825.0	815.0	809.9	799.5	791.7
165°	853.0	857.6	853.0	848.3	847.2	836.4	822.1	815.0	812.7	808.0	804.4
167.5°	844.0	846.0	844.0	842.1	841.6	834.5	825.2	820.5	818.6	814.6	811.6
170°	841.6	841.6	841.6	841.6	841.6	834.5	825.2	820.5	820.4	820.2	820.0
172.5°	835.0	833.3	835.0	836.7	837.1	831.6	824.2	820.5	820.5	820.5	820.5
175°	831.1	831.1	831.1	831.1	831.1	827.5	822.8	820.5	821.6	823.8	825.5
177.5°	827.4	825.5	827.4	829.4	829.9	827.2	823.5	821.7	822.6	824.2	825.5
180°	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5



TEST NUMBER: P935075

CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	957.6	952.3	952.3	943.3	939.8	937.1	932.6	919.3	915.6	912.1	917.4
5°	965.7	955.8	948.7	932.6	919.3	913.8	896.9	864.7	843.2	827.2	818.3
7.5°	967.5	955.0	941.5	916.5	884.4	870.1	818.3	759.3	743.3	729.0	720.0
10°	965.7	951.4	932.6	895.1	819.2	794.1	742.4	703.9	694.1	691.4	694.1
12.5°	959.4	946.0	920.1	857.5	751.2	734.3	703.9	681.6	679.8	684.3	708.4
15°	948.7	936.2	905.8	807.5	713.8	701.3	679.8	671.8	681.6	712.9	785.3
17.5°	938.0	923.7	886.1	758.4	685.2	676.2	661.0	677.1	732.5	774.5	798.6
20°	923.7	906.7	863.8	722.7	664.6	656.6	649.4	721.8	763.8	779.0	792.4
22.5°	906.7	888.8	833.5	697.7	643.2	637.0	641.4	746.8	763.8	774.5	786.1
25°	884.4	869.2	797.7	678.0	626.2	619.0	636.1	744.1	753.9	756.7	779.8
27.5°	863.8	844.1	760.2	660.1	605.7	603.0	640.5	732.5	739.7	742.4	767.3
30°	838.8	809.3	718.2	641.4	584.2	583.3	641.4	718.2	716.4	723.5	748.6
32.5°	812.9	757.6	670.9	618.1	563.7	562.8	635.2	696.8	695.0	704.8	723.5
35°	788.8	717.3	606.6	591.4	537.8	538.7	619.9	671.8	672.7	681.6	693.2
37.5°	763.8	682.5	536.0	561.9	512.7	512.7	599.4	648.5	646.7	649.4	665.6
40°	734.3	628.0	473.5	523.5	489.6	486.9	574.4	623.6	617.2	616.4	638.7
42.5°	703.0	568.1	427.0	472.6	462.7	459.2	544.0	593.2	581.6	584.2	612.8
45°	669.1	552.1	391.3	399.3	435.0	432.4	511.0	558.3	550.3	557.4	586.9
47.5°	635.2	519.9	379.6	331.4	405.5	404.7	474.4	524.4	519.9	527.0	558.3
50°	588.7	484.1	378.7	284.1	372.5	376.1	430.6	491.3	491.3	497.5	530.7
52.5°	528.8	440.4	343.9	257.3	334.1	344.8	392.1	462.7	464.5	470.8	500.2
55°	474.4	394.8	318.9	236.7	288.5	311.8	354.7	433.3	436.8	443.1	469.8
57.5°	424.3	328.7	313.6	212.6	246.6	268.9	321.6	404.7	406.4	411.9	437.7
60°	370.7	237.6	287.6	186.7	209.9	226.9	291.2	370.7	377.0	380.5	402.9
62.5°	310.0	172.4	260.8	168.8	192.1	195.6	266.2	338.6	346.6	349.3	362.7
65°	220.7	144.7	221.6	153.6	173.3	174.2	239.4	305.5	312.7	317.1	327.0
67.5°	149.2	117.9	168.8	139.3	159.0	159.9	213.5	267.1	277.0	280.5	286.7
70°	103.6	78.6	125.0	124.1	143.0	144.7	185.8	232.3	241.2	243.8	247.5
72.5°	75.9	63.4	103.6	111.6	125.9	127.8	157.3	193.0	201.9	204.6	206.4
75°	58.1	67.0	84.0	97.4	107.2	108.1	128.7	157.3	163.5	165.3	166.1
77.5°	46.4	62.5	61.6	78.6	87.6	85.8	101.0	121.5	126.8	126.8	126.8
80°	34.8	49.1	46.4	56.3	64.3	62.5	72.4	86.7	88.4	90.2	89.3
82.5°	25.9	31.3	31.3	35.7	42.9	41.1	48.2	56.3	56.3	56.3	58.1
85°	16.1	17.8	14.3	18.7	24.2	23.3	26.8	30.4	31.3	31.3	29.5
87.5°	9.9	8.1	4.4	7.1	10.7	10.7	12.5	13.4	12.5	12.5	12.5
90°	14.4	9.9	5.5	9.9	14.4	15.5	24.4	36.2	42.1	37.4	28.1
92.5°	97.5	59.9	22.2	59.9	97.5	106.9	150.3	208.1	237.1	207.8	149.2
95°	191.1	122.1	53.2	122.1	191.1	208.3	369.9	585.4	693.1	618.5	469.2
97.5°	213.7	152.8	92.0	152.8	213.7	228.8	498.3	857.5	1037.2	990.0	895.7
100°	232.2	177.1	121.9	177.1	232.2	246.0	545.0	943.6	1142.9	1146.4	1153.3
102.5°	250.3	198.9	147.4	198.9	250.3	263.2	566.5	970.8	1172.9	1233.0	1353.1
105°	277.8	234.2	190.6	234.2	277.8	288.7	582.4	973.9	1169.6	1304.3	1573.6
107.5°	316.2	275.5	234.9	275.5	316.2	326.3	585.3	930.4	1103.1	1291.0	1666.7
110°	338.2	301.5	264.8	301.5	338.2	347.4	580.8	892.1	1047.7	1257.7	1677.8



TEST NUMBER: P935075

CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	364.2	329.2	294.2	329.2	364.2	372.9	581.0	858.5	997.2	1212.2	1642.2
115°	403.0	370.7	338.5	370.7	403.0	411.1	586.3	820.0	936.8	1143.9	1558.2
117.5°	440.9	411.6	382.3	411.6	440.9	448.2	597.2	795.9	895.3	1082.2	1456.0
120°	462.9	435.4	407.8	435.4	462.9	469.8	606.1	787.8	878.7	1049.4	1391.0
122.5°	488.4	460.5	432.7	460.5	488.4	495.3	618.8	783.6	866.0	1019.8	1327.3
125°	521.7	496.3	470.9	496.3	521.7	528.0	636.1	780.1	852.1	982.7	1244.0
127.5°	553.2	527.6	502.0	527.6	553.2	559.6	653.2	778.1	840.5	952.6	1177.0
130°	573.7	546.2	518.6	546.2	573.7	580.7	665.8	779.3	836.1	935.9	1135.6
132.5°	590.9	563.3	535.7	563.3	590.9	597.8	675.9	780.1	832.1	921.6	1100.3
135°	611.5	586.3	561.2	586.3	611.5	617.8	687.0	779.3	825.5	900.3	1050.1
137.5°	637.1	612.1	587.2	612.1	637.1	643.3	703.7	784.2	824.4	887.7	1014.3
140°	654.7	631.8	608.9	631.8	654.7	660.4	713.8	784.9	820.5	875.2	984.5
142.5°	667.9	646.7	625.5	646.7	667.9	673.2	722.3	787.7	820.5	868.6	964.5
145°	687.9	669.5	651.0	669.5	687.9	692.6	733.4	787.8	815.0	854.3	932.8
147.5°	712.4	694.4	676.5	694.4	712.4	716.9	749.6	793.2	815.0	845.9	907.7
150°	725.6	709.3	693.1	709.3	725.6	729.7	758.1	796.0	815.0	841.1	893.2
152.5°	734.9	722.7	710.3	722.7	734.9	738.0	763.7	797.9	815.0	837.3	881.9
155°	753.9	744.9	735.8	744.9	753.9	756.2	775.8	802.0	815.0	832.8	868.2
157.5°	772.3	763.5	754.6	763.5	772.3	774.5	788.0	806.0	815.0	828.8	856.4
160°	781.2	774.2	767.3	774.2	781.2	782.9	793.6	807.9	815.0	826.8	850.4
162.5°	790.4	785.3	780.1	785.3	790.4	791.7	799.5	809.9	815.0	825.0	844.9
165°	803.3	798.6	794.0	798.6	803.3	804.4	808.0	812.7	815.0	822.1	836.4
167.5°	811.1	808.9	806.7	808.9	811.1	811.6	814.6	818.6	820.5	825.2	834.5
170°	819.4	817.2	815.0	817.2	819.4	820.0	820.2	820.4	820.5	825.2	834.5
172.5°	820.4	819.9	819.4	819.9	820.4	820.5	820.5	820.5	820.5	824.2	831.6
175°	825.5	825.5	825.5	825.5	825.5	825.5	823.8	821.6	820.5	822.8	827.5
177.5°	825.5	825.5	825.5	825.5	825.5	825.5	824.2	822.6	821.7	823.5	827.2
180°	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5



TEST NUMBER: P935075
 CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	911.2	908.5	912.1	902.2	912.1	908.5	911.2	917.4	912.1	915.6	919.3
5°	799.6	795.0	780.7	769.1	780.7	795.0	799.6	818.3	827.2	843.2	864.7
7.5°	714.7	711.1	707.5	700.4	707.5	711.1	714.7	720.0	729.0	743.3	759.3
10°	695.9	696.8	702.1	701.3	702.1	696.8	695.9	694.1	691.4	694.1	703.9
12.5°	744.1	752.1	781.6	779.8	781.6	752.1	744.1	708.4	684.3	679.8	681.6
15°	799.6	802.2	808.4	809.3	808.4	802.2	799.6	785.3	712.9	681.6	671.8
17.5°	804.9	805.8	810.2	810.2	810.2	805.8	804.9	798.6	774.5	732.5	677.1
20°	800.4	802.2	811.1	812.9	811.1	802.2	800.4	792.4	779.0	763.8	721.8
22.5°	798.6	802.2	809.3	808.4	809.3	802.2	798.6	786.1	774.5	763.8	746.8
25°	789.7	789.7	790.6	791.5	790.6	789.7	789.7	779.8	756.7	753.9	744.1
27.5°	771.0	772.7	778.1	777.2	778.1	772.7	771.0	767.3	742.4	739.7	732.5
30°	753.9	752.1	747.7	744.1	747.7	752.1	753.9	748.6	723.5	716.4	718.2
32.5°	725.4	720.9	716.4	713.8	716.4	720.9	725.4	723.5	704.8	695.0	696.8
35°	691.4	692.3	691.4	688.7	691.4	692.3	691.4	693.2	681.6	672.7	671.8
37.5°	667.3	669.1	668.2	664.6	668.2	669.1	667.3	665.6	649.4	646.7	648.5
40°	642.3	643.2	642.3	639.6	642.3	643.2	642.3	638.7	616.4	617.2	623.6
42.5°	618.1	617.2	614.6	612.8	614.6	617.2	618.1	612.8	584.2	581.6	593.2
45°	590.5	591.4	586.0	583.3	586.0	591.4	590.5	586.9	557.4	550.3	558.3
47.5°	562.8	562.8	558.3	555.6	558.3	562.8	562.8	558.3	527.0	519.9	524.4
50°	533.3	532.4	526.1	525.3	526.1	532.4	533.3	530.7	497.5	491.3	491.3
52.5°	499.3	499.3	500.2	502.1	500.2	499.3	499.3	500.2	470.8	464.5	462.7
55°	469.8	470.8	477.0	478.8	477.0	470.8	469.8	469.8	443.1	436.8	433.3
57.5°	439.5	439.5	444.0	444.0	444.0	439.5	439.5	437.7	411.9	406.4	404.7
60°	404.7	406.4	410.0	409.1	410.0	406.4	404.7	402.9	380.5	377.0	370.7
62.5°	368.1	369.9	370.7	369.0	370.7	369.9	368.1	362.7	349.3	346.6	338.6
65°	329.6	331.4	332.3	330.5	332.3	331.4	329.6	327.0	317.1	312.7	305.5
67.5°	290.3	289.4	288.5	292.2	288.5	289.4	290.3	286.7	280.5	277.0	267.1
70°	250.1	250.1	249.3	251.0	249.3	250.1	250.1	247.5	243.8	241.2	232.3
72.5°	207.3	206.4	209.9	207.3	209.9	206.4	207.3	206.4	204.6	201.9	193.0
75°	165.3	167.0	165.3	167.9	165.3	167.0	165.3	166.1	165.3	163.5	157.3
77.5°	125.9	127.8	125.9	125.9	125.9	127.8	125.9	126.8	126.8	126.8	121.5
80°	89.3	88.4	88.4	87.6	88.4	88.4	89.3	89.3	90.2	88.4	86.7
82.5°	57.2	56.3	56.3	58.1	56.3	56.3	57.2	58.1	56.3	56.3	56.3
85°	31.3	32.1	30.4	30.4	30.4	32.1	31.3	29.5	31.3	31.3	30.4
87.5°	11.6	10.7	10.7	10.7	10.7	10.7	11.6	12.5	12.5	12.5	13.4
90°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	28.1	37.4	42.1	36.2
92.5°	105.2	101.1	84.3	67.6	84.3	101.1	105.2	149.2	207.8	237.1	208.1
95°	357.3	344.6	293.9	243.2	293.9	344.6	357.3	469.2	618.5	693.1	585.4
97.5°	825.0	800.8	704.3	607.7	704.3	800.8	825.0	895.7	990.0	1037.2	857.5
100°	1158.5	1129.7	1014.7	899.7	1014.7	1129.7	1158.5	1153.3	1146.4	1142.9	943.6
102.5°	1443.3	1418.7	1320.1	1221.6	1320.1	1418.7	1443.3	1353.1	1233.0	1172.9	970.8
105°	1775.6	1762.4	1709.5	1656.6	1709.5	1762.4	1775.6	1573.6	1304.3	1169.6	973.9
107.5°	1948.5	1951.7	1964.6	1977.4	1964.6	1951.7	1948.5	1666.7	1291.0	1103.1	930.4
110°	1992.8	2006.6	2061.8	2117.0	2061.8	2006.6	1992.8	1677.8	1257.7	1047.7	892.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1964.6	1985.7	2070.5	2155.2	2070.5	1985.7	1964.6	1642.2	1212.2	997.2	858.5
115°	1868.8	1898.2	2015.6	2133.1	2015.6	1898.2	1868.8	1558.2	1143.9	936.8	820.0
117.5°	1736.3	1768.9	1899.2	2029.4	1899.2	1768.9	1736.3	1456.0	1082.2	895.3	795.9
120°	1647.2	1678.8	1805.4	1931.9	1805.4	1678.8	1647.2	1391.0	1049.4	878.7	787.8
122.5°	1557.9	1589.2	1714.0	1838.9	1714.0	1589.2	1557.9	1327.3	1019.8	866.0	783.6
125°	1440.0	1468.8	1583.7	1698.7	1583.7	1468.8	1440.0	1244.0	982.7	852.1	780.1
127.5°	1345.2	1369.5	1466.5	1563.5	1466.5	1369.5	1345.2	1177.0	952.6	840.5	778.1
130°	1285.4	1307.8	1397.4	1487.0	1397.4	1307.8	1285.4	1135.6	935.9	836.1	779.3
132.5°	1234.4	1254.5	1334.8	1415.0	1334.8	1254.5	1234.4	1100.3	921.6	832.1	780.1
135°	1162.4	1179.7	1248.9	1318.1	1248.9	1179.7	1162.4	1050.1	900.3	825.5	779.3
137.5°	1109.2	1123.3	1180.0	1236.6	1180.0	1123.3	1109.2	1014.3	887.7	824.4	784.2
140°	1066.5	1079.7	1132.7	1185.7	1132.7	1079.7	1066.5	984.5	875.2	820.5	784.9
142.5°	1036.6	1047.9	1093.6	1139.1	1093.6	1047.9	1036.6	964.5	868.6	820.5	787.7
145°	991.7	1000.3	1034.9	1069.3	1034.9	1000.3	991.7	932.8	854.3	815.0	787.8
147.5°	954.1	961.2	989.8	1018.4	989.8	961.2	954.1	907.7	845.9	815.0	793.2
150°	932.4	938.2	961.3	984.5	961.3	938.2	932.4	893.2	841.1	815.0	796.0
152.5°	915.3	919.6	937.1	954.6	937.1	919.6	915.3	881.9	837.3	815.0	797.9
155°	894.7	897.7	909.2	920.8	909.2	897.7	894.7	868.2	832.8	815.0	802.0
157.5°	877.1	879.1	887.2	895.3	887.2	879.1	877.1	856.4	828.8	815.0	806.0
160°	868.2	869.4	874.1	878.7	874.1	869.4	868.2	850.4	826.8	815.0	807.9
162.5°	859.9	860.9	865.4	869.8	865.4	860.9	859.9	844.9	825.0	815.0	809.9
165°	847.2	848.3	853.0	857.6	853.0	848.3	847.2	836.4	822.1	815.0	812.7
167.5°	841.6	842.1	844.0	846.0	844.0	842.1	841.6	834.5	825.2	820.5	818.6
170°	841.6	841.6	841.6	841.6	841.6	841.6	841.6	834.5	825.2	820.5	820.4
172.5°	837.1	836.7	835.0	833.3	835.0	836.7	837.1	831.6	824.2	820.5	820.5
175°	831.1	831.1	831.1	831.1	831.1	831.1	831.1	827.5	822.8	820.5	821.6
177.5°	829.9	829.4	827.4	825.5	827.4	829.4	829.9	827.2	823.5	821.7	822.6
180°	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5	825.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	944.2	944.2	944.2	944.2	944.2
2.5°	932.6	937.1	939.8	943.3	952.3
5°	896.9	913.8	919.3	932.6	948.7
7.5°	818.3	870.1	884.4	916.5	941.5
10°	742.4	794.1	819.2	895.1	932.6
12.5°	703.9	734.3	751.2	857.5	920.1
15°	679.8	701.3	713.8	807.5	905.8
17.5°	661.0	676.2	685.2	758.4	886.1
20°	649.4	656.6	664.6	722.7	863.8
22.5°	641.4	637.0	643.2	697.7	833.5
25°	636.1	619.0	626.2	678.0	797.7
27.5°	640.5	603.0	605.7	660.1	760.2
30°	641.4	583.3	584.2	641.4	718.2
32.5°	635.2	562.8	563.7	618.1	670.9
35°	619.9	538.7	537.8	591.4	606.6
37.5°	599.4	512.7	512.7	561.9	536.0
40°	574.4	486.9	489.6	523.5	473.5
42.5°	544.0	459.2	462.7	472.6	427.0
45°	511.0	432.4	435.0	399.3	391.3
47.5°	474.4	404.7	405.5	331.4	379.6
50°	430.6	376.1	372.5	284.1	378.7
52.5°	392.1	344.8	334.1	257.3	343.9
55°	354.7	311.8	288.5	236.7	318.9
57.5°	321.6	268.9	246.6	212.6	313.6
60°	291.2	226.9	209.9	186.7	287.6
62.5°	266.2	195.6	192.1	168.8	260.8
65°	239.4	174.2	173.3	153.6	221.6
67.5°	213.5	159.9	159.0	139.3	168.8
70°	185.8	144.7	143.0	124.1	125.0
72.5°	157.3	127.8	125.9	111.6	103.6
75°	128.7	108.1	107.2	97.4	84.0
77.5°	101.0	85.8	87.6	78.6	61.6
80°	72.4	62.5	64.3	56.3	46.4
82.5°	48.2	41.1	42.9	35.7	31.3
85°	26.8	23.3	24.2	18.7	14.3
87.5°	12.5	10.7	10.7	7.1	4.4
90°	24.4	15.5	14.4	9.9	5.5
92.5°	150.3	106.9	97.5	59.9	22.2
95°	369.9	208.3	191.1	122.1	53.2
97.5°	498.3	228.8	213.7	152.8	92.0
100°	545.0	246.0	232.2	177.1	121.9
102.5°	566.5	263.2	250.3	198.9	147.4
105°	582.4	288.7	277.8	234.2	190.6
107.5°	585.3	326.3	316.2	275.5	234.9
110°	580.8	347.4	338.2	301.5	264.8



TEST NUMBER: P935075

CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	581.0	372.9	364.2	329.2	294.2
115°	586.3	411.1	403.0	370.7	338.5
117.5°	597.2	448.2	440.9	411.6	382.3
120°	606.1	469.8	462.9	435.4	407.8
122.5°	618.8	495.3	488.4	460.5	432.7
125°	636.1	528.0	521.7	496.3	470.9
127.5°	653.2	559.6	553.2	527.6	502.0
130°	665.8	580.7	573.7	546.2	518.6
132.5°	675.9	597.8	590.9	563.3	535.7
135°	687.0	617.8	611.5	586.3	561.2
137.5°	703.7	643.3	637.1	612.1	587.2
140°	713.8	660.4	654.7	631.8	608.9
142.5°	722.3	673.2	667.9	646.7	625.5
145°	733.4	692.6	687.9	669.5	651.0
147.5°	749.6	716.9	712.4	694.4	676.5
150°	758.1	729.7	725.6	709.3	693.1
152.5°	763.7	738.0	734.9	722.7	710.3
155°	775.8	756.2	753.9	744.9	735.8
157.5°	788.0	774.5	772.3	763.5	754.6
160°	793.6	782.9	781.2	774.2	767.3
162.5°	799.5	791.7	790.4	785.3	780.1
165°	808.0	804.4	803.3	798.6	794.0
167.5°	814.6	811.6	811.1	808.9	806.7
170°	820.2	820.0	819.4	817.2	815.0
172.5°	820.5	820.5	820.4	819.9	819.4
175°	823.8	825.5	825.5	825.5	825.5
177.5°	824.2	825.5	825.5	825.5	825.5
180°	825.5	825.5	825.5	825.5	825.5



TEST NUMBER: P935075
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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	8.91	9.63	10.01	10.72	12.24	11.74	12.45	12.84	13.55	15.06
	3H	9.38	10.02	10.49	11.12	12.65	13.07	13.71	14.18	14.82	16.35
	4H	9.56	10.17	10.68	11.28	12.81	13.50	14.11	14.62	15.22	16.76
	6H	9.67	10.23	10.80	11.34	12.89	13.78	14.34	14.91	15.45	17.00
	8H	9.67	10.20	10.80	11.33	12.87	13.85	14.38	14.98	15.51	17.05
	12H	9.63	10.14	10.77	11.26	12.82	13.88	14.39	15.02	15.51	17.07
4H	2H	9.92	10.53	11.05	11.64	13.18	12.13	12.74	13.25	13.84	15.38
	3H	10.94	11.44	12.07	12.58	14.13	13.62	14.12	14.75	15.26	16.81
	4H	11.21	11.67	12.34	12.80	14.37	14.14	14.60	15.28	15.73	17.30
	6H	11.32	11.72	12.47	12.87	14.43	14.49	14.89	15.64	16.04	17.60
	8H	11.33	11.70	12.47	12.84	14.41	14.60	14.97	15.74	16.11	17.68
	12H	11.29	11.62	12.45	12.77	14.36	14.64	14.98	15.80	16.13	17.71
8H	4H	11.65	12.02	12.79	13.16	14.74	14.25	14.62	15.39	15.76	17.34
	6H	11.90	12.21	13.07	13.39	14.96	14.68	14.99	15.84	16.17	17.74
	8H	11.94	12.21	13.11	13.37	14.97	14.83	15.10	16.00	16.26	17.85
	12H	11.92	12.16	13.10	13.31	14.94	14.92	15.16	16.09	16.31	17.94
12H	4H	11.65	11.98	12.81	13.13	14.72	14.21	14.55	15.37	15.70	17.28
	6H	11.96	12.23	13.13	13.39	14.98	14.68	14.94	15.85	16.10	17.70
	8H	12.02	12.26	13.20	13.41	15.04	14.83	15.06	16.00	16.22	17.85