

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: P935818

Luminaire Tested: SQ4-FA-150U-050D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935818
REPORT IS A COMBINATION OF REPORTS P933770 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-050D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

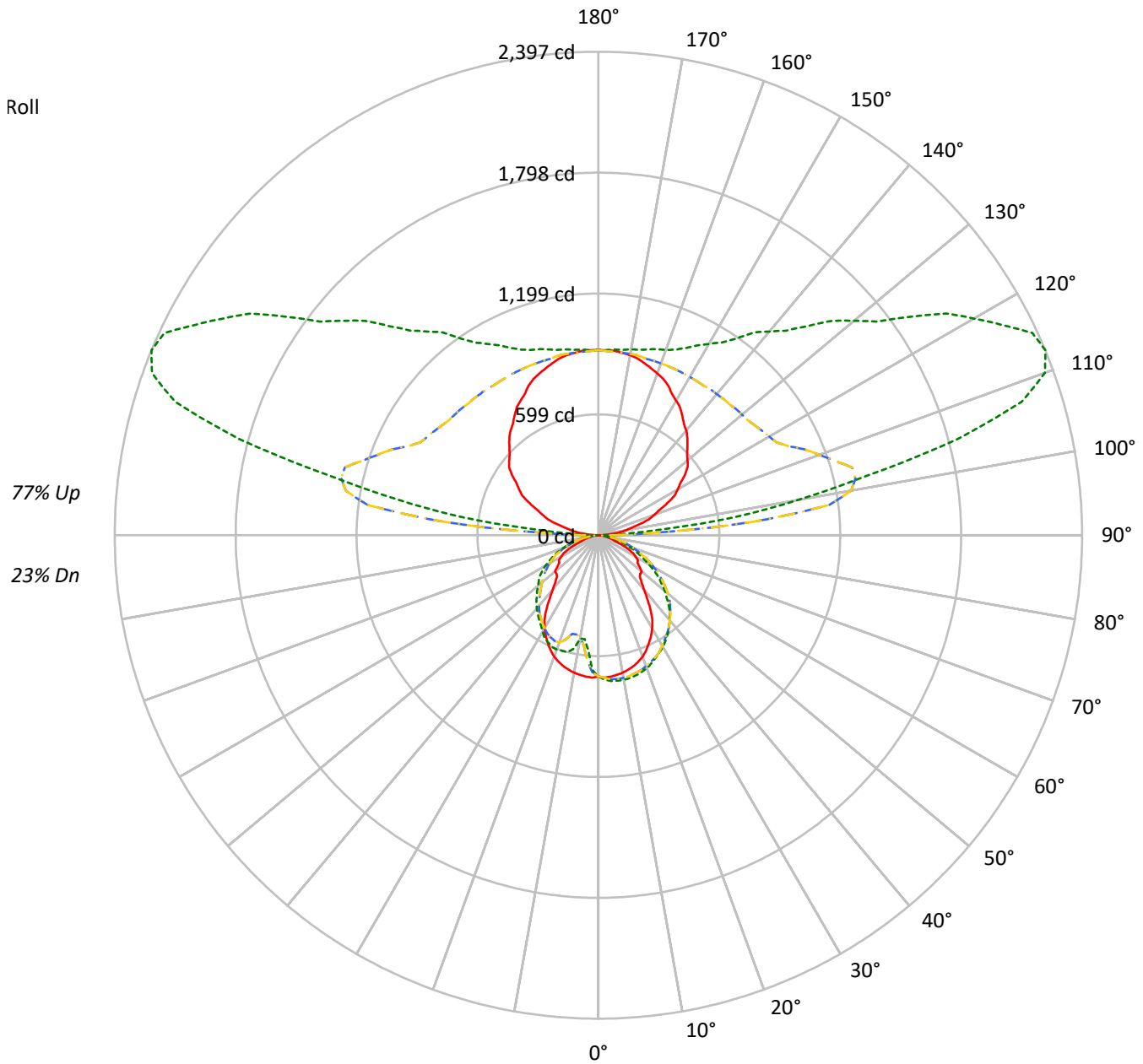
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7771.6 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.6
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: P935818
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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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	27	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	23	23	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	19	19	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	16	16	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	14	14	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	12	12	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	11	11	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	10	10	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	9	9	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	8	8	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6499	6499	6499	6499
5°	6540	6561	6540	5158
10°	6490	6463	6490	4621
15°	6411	6323	6411	5279
20°	6270	6156	6270	5290
25°	5988	5915	5988	5178
30°	5627	5714	5627	4933
35°	5009	5459	5009	4662
40°	4166	5161	4166	4457
45°	3715	4811	3715	4221
50°	3939	4393	3939	3986
55°	3694	3943	3694	3850
60°	3796	3349	3796	3526
65°	3424	2768	3424	3094
70°	2356	2207	2356	2594
75°	2040	1630	2040	1953
80°	1615	1079	1615	1173
85°	878	571	878	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5706 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	0.8
10°-20°	179.5	2.3
20°-30°	277.5	3.6
30°-40°	331.3	4.3
40°-50°	333.2	4.3
50°-60°	289.9	3.7
60°-70°	205.6	2.6
70°-80°	108.8	1.4
80°-90°	30.6	0.4
90°-100°	447.6	5.8
100°-110°	1176.7	15.1
110°-120°	1220.1	15.7
120°-130°	978.7	12.6
130°-140°	767.9	9.9
140°-150°	589.4	7.6
150°-160°	424.5	5.5
160°-170°	259.7	3.3
170°-180°	87.7	1.1
0°-30°	520.2	6.7
0°-40°	851.5	11.0
0°-60°	1474.6	19.0
0°-90°	1819.5	23.4
90°-120°	2844.3	36.6
90°-150°	5180.3	66.7
90°-180°	5952.0	76.6
0°-180°	7771.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	700	700	700	700	700	
5°	704	726	704	570	704	67
15°	672	719	672	600	672	189
25°	592	671	592	587	592	272
35°	450	598	450	511	450	278
45°	290	493	290	433	290	232
55°	236	364	236	355	236	217
65°	164	219	164	245	164	157
75°	62	104	62	125	62	65
85°	11	26	11	22	11	14
90°	6	23	6	23	6	6
95°	59	270	59	270	59	66
105°	212	1842	212	1842	212	225
115°	376	2372	376	2372	376	372
125°	524	1889	524	1889	524	465
135°	624	1466	624	1466	624	483
145°	724	1189	724	1189	724	454
155°	818	1024	818	1024	818	376
165°	883	954	883	954	883	249
175°	918	924	918	924	918	87
180°	918	918	918	918	918	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	706.3	706.3	710.3	711.7	711.7	709.7	707.7	709.7	715.6	717.6	716.9
5°	703.7	709.0	716.3	717.6	719.0	718.3	716.9	718.3	724.9	726.2	726.9
7.5°	698.4	708.3	717.6	719.6	721.5	719.6	719.0	720.3	726.9	728.2	728.2
10°	691.8	705.6	716.3	717.6	719.6	717.6	717.6	720.3	726.9	728.2	728.8
12.5°	682.5	701.7	711.7	712.9	715.6	714.9	714.3	716.9	723.6	724.9	724.9
15°	671.8	694.4	703.7	705.0	709.7	708.3	708.3	711.0	718.3	720.3	719.6
17.5°	657.3	685.2	695.7	697.7	701.1	700.4	701.1	703.7	710.3	711.7	712.3
20°	640.7	672.5	685.2	687.2	690.4	690.4	690.4	693.8	700.4	703.1	703.1
22.5°	618.2	659.3	672.5	673.9	677.9	677.9	679.2	683.8	689.7	690.4	690.4
25°	591.7	644.7	655.9	660.0	663.9	665.9	667.9	670.6	672.5	671.8	672.5
27.5°	563.9	626.2	640.7	643.4	648.7	650.7	653.4	654.0	654.6	656.6	655.3
30°	532.7	600.3	622.1	624.8	633.4	634.8	632.1	633.4	636.8	638.1	639.4
32.5°	497.7	561.9	603.0	608.9	616.9	613.0	612.3	614.2	619.6	619.6	620.9
35°	449.9	532.0	585.1	590.4	596.4	591.7	594.4	595.0	598.3	600.3	599.6
37.5°	397.6	506.3	566.5	570.5	575.1	569.2	573.1	575.1	577.8	576.5	576.5
40°	351.1	465.8	544.7	547.4	551.3	546.7	550.6	552.0	553.3	552.0	551.3
42.5°	316.8	421.4	521.5	524.8	522.2	525.4	526.8	529.5	527.4	524.8	524.8
45°	290.2	409.5	496.3	500.2	496.3	501.6	503.6	503.6	497.7	496.3	495.6
47.5°	281.6	385.6	471.1	471.1	469.1	475.7	479.1	474.4	468.5	466.4	466.4
50°	281.0	359.1	436.7	434.0	443.3	451.2	448.0	443.3	438.7	431.4	431.4
52.5°	255.1	326.6	392.2	402.2	416.7	421.4	416.1	411.5	403.5	400.2	397.6
55°	236.5	292.8	351.8	371.7	387.0	392.9	382.9	378.3	366.4	364.5	363.1
57.5°	232.6	243.8	314.8	339.9	358.4	357.9	351.8	343.2	333.3	331.3	330.7
60°	213.4	176.3	275.0	304.8	324.0	322.0	316.8	308.8	299.5	298.2	296.9
62.5°	193.5	127.8	229.9	263.7	290.9	290.2	285.6	273.7	267.1	263.7	261.0
65°	164.3	107.3	163.7	219.3	258.5	259.7	249.8	241.2	233.9	229.9	229.2
67.5°	125.3	87.4	110.7	182.9	227.2	226.0	213.4	209.4	200.1	198.1	194.1
70°	92.8	58.3	76.9	148.4	196.8	193.5	183.6	178.9	170.3	165.7	163.0
72.5°	76.9	47.0	56.3	115.3	165.7	161.6	153.0	147.8	140.5	136.5	133.9
75°	62.2	49.7	43.1	85.5	134.5	131.9	123.9	118.6	112.6	107.3	108.0
77.5°	45.7	46.3	34.5	62.9	106.7	102.8	98.1	91.5	88.8	83.5	83.5
80°	34.5	36.5	25.9	43.1	76.9	76.9	72.9	68.3	63.6	61.0	61.0
82.5°	23.2	23.2	19.2	27.2	52.4	50.4	47.7	46.3	43.8	42.4	42.4
85°	10.6	13.2	12.0	16.6	28.5	29.8	29.8	28.5	27.9	26.5	27.2
87.5°	3.4	5.9	7.3	9.3	14.6	15.2	15.9	15.9	15.9	16.6	16.6
90°	6.1	11.1	16.0	17.3	27.2	40.3	46.8	41.6	31.2	23.4	23.4
92.5°	24.6	66.5	108.5	119.0	167.2	231.5	263.7	231.1	166.0	117.1	112.4
95°	59.2	135.8	212.5	231.7	411.4	651.1	770.9	687.9	522.0	397.5	383.3
97.5°	102.3	169.9	237.6	254.5	554.2	953.8	1153.6	1101.1	996.2	917.6	890.7
100°	135.6	196.9	258.3	273.6	606.1	1049.6	1271.3	1275.1	1282.8	1288.5	1256.5
102.5°	163.9	221.2	278.4	292.7	630.0	1079.7	1304.6	1371.3	1505.0	1605.3	1577.9
105°	212.0	260.5	308.9	321.1	647.6	1083.0	1300.8	1450.6	1750.2	1975.0	1960.3
107.5°	261.3	306.5	351.7	363.0	651.0	1034.9	1226.9	1435.9	1853.8	2167.3	2170.8
110°	294.5	335.3	376.2	386.4	646.1	992.1	1165.2	1398.9	1866.1	2216.6	2231.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	327.2	366.2	405.1	414.8	646.3	954.9	1109.2	1348.3	1826.5	2185.2	2208.7
115°	376.5	412.4	448.3	457.2	652.2	912.1	1042.0	1272.3	1733.1	2078.6	2111.3
117.5°	425.2	457.8	490.4	498.5	664.3	885.3	995.8	1203.7	1619.4	1931.2	1967.5
120°	453.5	484.2	514.8	522.6	674.1	876.3	977.3	1167.2	1547.1	1832.0	1867.2
122.5°	481.3	512.2	543.2	550.9	688.3	871.6	963.2	1134.2	1476.3	1732.9	1767.5
125°	523.8	552.0	580.3	587.3	707.4	867.7	947.8	1093.0	1383.6	1601.5	1633.6
127.5°	558.3	586.8	615.2	622.3	726.5	865.4	934.8	1059.6	1309.1	1496.2	1523.2
130°	576.8	607.4	638.1	645.8	740.5	866.8	929.9	1041.0	1263.1	1429.6	1454.5
132.5°	595.9	626.6	657.2	664.9	751.8	867.7	925.6	1025.0	1223.8	1372.9	1395.3
135°	624.2	652.2	680.0	687.1	764.1	866.8	918.1	1001.4	1167.9	1292.8	1312.1
137.5°	653.2	680.8	708.5	715.4	782.6	872.2	917.0	987.3	1128.1	1233.7	1249.4
140°	677.3	702.8	728.3	734.6	794.0	873.1	912.6	973.4	1095.0	1186.2	1200.9
142.5°	695.7	719.3	742.8	748.7	803.3	876.2	912.6	966.1	1072.9	1153.0	1165.6
145°	724.1	744.7	765.1	770.2	815.7	876.3	906.5	950.2	1037.5	1103.0	1112.6
147.5°	752.4	772.4	792.4	797.4	833.8	882.3	906.5	940.9	1009.5	1061.1	1069.0
150°	770.9	789.0	807.0	811.5	843.2	885.3	906.5	935.5	993.5	1037.1	1043.5
152.5°	790.0	803.7	817.4	820.8	849.4	887.4	906.5	931.3	980.9	1018.0	1022.9
155°	818.4	828.5	838.6	841.2	862.9	892.0	906.5	926.2	965.7	995.2	998.5
157.5°	839.3	849.2	859.0	861.4	876.5	896.5	906.5	921.8	952.4	975.5	977.7
160°	853.4	861.1	868.8	870.7	882.7	898.6	906.5	919.6	945.9	965.6	966.9
162.5°	867.7	873.4	879.1	880.6	889.2	900.8	906.5	917.6	939.8	956.4	957.6
165°	883.1	888.2	893.4	894.7	898.7	903.9	906.5	914.4	930.3	942.2	943.4
167.5°	897.2	899.7	902.1	902.7	906.0	910.4	912.6	917.9	928.2	936.0	936.6
170°	906.5	909.0	911.4	912.0	912.2	912.5	912.6	917.9	928.2	936.0	936.0
172.5°	911.4	911.9	912.5	912.6	912.6	912.6	912.6	916.8	925.0	931.1	930.6
175°	918.1	918.1	918.1	918.1	916.3	913.8	912.6	915.2	920.4	924.4	924.4
177.5°	918.1	918.1	918.1	918.1	916.8	914.9	913.9	916.0	920.0	923.1	922.5
180°	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	718.3	716.3	718.3	716.9	717.6	715.6	709.7	707.7	709.7	711.7	711.7
5°	726.9	725.6	726.9	726.9	726.2	724.9	718.3	716.9	718.3	719.0	717.6
7.5°	729.5	727.6	729.5	728.2	728.2	726.9	720.3	719.0	719.6	721.5	719.6
10°	729.5	727.6	729.5	728.8	728.2	726.9	720.3	717.6	717.6	719.6	717.6
12.5°	726.2	724.9	726.2	724.9	724.9	723.6	716.9	714.3	714.9	715.6	712.9
15°	720.9	719.0	720.9	719.6	720.3	718.3	711.0	708.3	708.3	709.7	705.0
17.5°	712.9	710.3	712.9	712.3	711.7	710.3	703.7	701.1	700.4	701.1	697.7
20°	703.7	701.7	703.7	703.1	703.1	700.4	693.8	690.4	690.4	690.4	687.2
22.5°	689.1	687.2	689.1	690.4	690.4	689.7	683.8	679.2	677.9	677.9	673.9
25°	672.5	670.6	672.5	672.5	671.8	672.5	670.6	667.9	665.9	663.9	660.0
27.5°	656.6	655.3	656.6	655.3	656.6	654.6	654.0	653.4	650.7	648.7	643.4
30°	640.7	639.4	640.7	639.4	638.1	636.8	633.4	632.1	634.8	633.4	624.8
32.5°	620.9	619.6	620.9	620.9	619.6	619.6	614.2	612.3	613.0	616.9	608.9
35°	600.3	598.3	600.3	599.6	600.3	598.3	595.0	594.4	591.7	596.4	590.4
37.5°	576.5	574.5	576.5	576.5	576.5	577.8	575.1	573.1	569.2	575.1	570.5
40°	552.0	549.3	552.0	551.3	552.0	553.3	552.0	550.6	546.7	551.3	547.4
42.5°	524.1	523.4	524.1	524.8	524.8	527.4	529.5	526.8	525.4	522.2	524.8
45°	494.3	493.0	494.3	495.6	496.3	497.7	503.6	503.6	501.6	496.3	500.2
47.5°	462.5	459.2	462.5	466.4	466.4	468.5	474.4	479.1	475.7	469.1	471.1
50°	428.7	429.4	428.7	431.4	431.4	438.7	443.3	448.0	451.2	443.3	434.0
52.5°	395.6	394.9	395.6	397.6	400.2	403.5	411.5	416.1	421.4	416.7	402.2
55°	362.4	363.8	362.4	363.1	364.5	366.4	378.3	382.9	392.9	387.0	371.7
57.5°	329.3	327.3	329.3	330.7	331.3	333.3	343.2	351.8	357.9	358.4	339.9
60°	290.9	288.2	290.9	296.9	298.2	299.5	308.8	316.8	322.0	324.0	304.8
62.5°	257.1	252.4	257.1	261.0	263.7	267.1	273.7	285.6	290.2	290.9	263.7
65°	221.3	219.3	221.3	229.2	229.9	233.9	241.2	249.8	259.7	258.5	219.3
67.5°	188.8	188.8	188.8	194.1	198.1	200.1	209.4	213.4	226.0	227.2	182.9
70°	159.1	158.4	159.1	163.0	165.7	170.3	178.9	183.6	193.5	196.8	148.4
72.5°	130.5	129.8	130.5	133.9	136.5	140.5	147.8	153.0	161.6	165.7	115.3
75°	105.3	104.0	105.3	108.0	107.3	112.6	118.6	123.9	131.9	134.5	85.5
77.5°	80.8	80.8	80.8	83.5	83.5	88.8	91.5	98.1	102.8	106.7	62.9
80°	60.3	59.7	60.3	61.0	61.0	63.6	68.3	72.9	76.9	76.9	43.1
82.5°	42.4	41.1	42.4	42.4	42.4	43.8	46.3	47.7	50.4	52.4	27.2
85°	26.5	26.5	26.5	27.2	26.5	27.9	28.5	29.8	29.8	28.5	16.6
87.5°	17.2	16.6	17.2	16.6	16.6	15.9	15.9	15.9	15.2	14.6	9.3
90°	23.4	23.4	23.4	23.4	23.4	31.2	41.6	46.8	40.3	27.2	17.3
92.5°	93.8	75.2	93.8	112.4	117.1	166.0	231.1	263.7	231.5	167.2	119.0
95°	326.9	270.5	326.9	383.3	397.5	522.0	687.9	770.9	651.1	411.4	231.7
97.5°	783.4	676.0	783.4	890.7	917.6	996.2	1101.1	1153.6	953.8	554.2	254.5
100°	1128.7	1000.7	1128.7	1256.5	1288.5	1282.8	1275.1	1271.3	1049.6	606.1	273.6
102.5°	1468.4	1358.8	1468.4	1577.9	1605.3	1505.0	1371.3	1304.6	1079.7	630.0	292.7
105°	1901.4	1842.5	1901.4	1960.3	1975.0	1750.2	1450.6	1300.8	1083.0	647.6	321.1
107.5°	2185.1	2199.3	2185.1	2170.8	2167.3	1853.8	1435.9	1226.9	1034.9	651.0	363.0
110°	2293.2	2354.6	2293.2	2231.9	2216.6	1866.1	1398.9	1165.2	992.1	646.1	386.4



TEST NUMBER: P935818

CATALOG NUMBER: SQ4-FA-150U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2302.9	2397.1	2302.9	2208.7	2185.2	1826.5	1348.3	1109.2	954.9	646.3	414.8
115°	2241.9	2372.5	2241.9	2111.3	2078.6	1733.1	1272.3	1042.0	912.1	652.2	457.2
117.5°	2112.3	2257.2	2112.3	1967.5	1931.2	1619.4	1203.7	995.8	885.3	664.3	498.5
120°	2008.0	2148.8	2008.0	1867.2	1832.0	1547.1	1167.2	977.3	876.3	674.1	522.6
122.5°	1906.4	2045.3	1906.4	1767.5	1732.9	1476.3	1134.2	963.2	871.6	688.3	550.9
125°	1761.4	1889.4	1761.4	1633.6	1601.5	1383.6	1093.0	947.8	867.7	707.4	587.3
127.5°	1631.1	1739.0	1631.1	1523.2	1496.2	1309.1	1059.6	934.8	865.4	726.5	622.3
130°	1554.2	1653.9	1554.2	1454.5	1429.6	1263.1	1041.0	929.9	866.8	740.5	645.8
132.5°	1484.5	1573.8	1484.5	1395.3	1372.9	1223.8	1025.0	925.6	867.7	751.8	664.9
135°	1389.0	1466.0	1389.0	1312.1	1292.8	1167.9	1001.4	918.1	866.8	764.1	687.1
137.5°	1312.5	1375.4	1312.5	1249.4	1233.7	1128.1	987.3	917.0	872.2	782.6	715.4
140°	1259.8	1318.7	1259.8	1200.9	1186.2	1095.0	973.4	912.6	873.1	794.0	734.6
142.5°	1216.3	1266.9	1216.3	1165.6	1153.0	1072.9	966.1	912.6	876.2	803.3	748.7
145°	1151.0	1189.4	1151.0	1112.6	1103.0	1037.5	950.2	906.5	876.3	815.7	770.2
147.5°	1100.8	1132.6	1100.8	1069.0	1061.1	1009.5	940.9	906.5	882.3	833.8	797.4
150°	1069.3	1095.0	1069.3	1043.5	1037.1	993.5	935.5	906.5	885.3	843.2	811.5
152.5°	1042.3	1061.7	1042.3	1022.9	1018.0	980.9	931.3	906.5	887.4	849.4	820.8
155°	1011.3	1024.2	1011.3	998.5	995.2	965.7	926.2	906.5	892.0	862.9	841.2
157.5°	986.7	995.8	986.7	977.7	975.5	952.4	921.8	906.5	896.5	876.5	861.4
160°	972.1	977.3	972.1	966.9	965.6	945.9	919.6	906.5	898.6	882.7	870.7
162.5°	962.5	967.4	962.5	957.6	956.4	939.8	917.6	906.5	900.8	889.2	880.6
165°	948.7	953.9	948.7	943.4	942.2	930.3	914.4	906.5	903.9	898.7	894.7
167.5°	938.8	941.0	938.8	936.6	936.0	928.2	917.9	912.6	910.4	906.0	902.7
170°	936.0	936.0	936.0	936.0	936.0	928.2	917.9	912.6	912.5	912.2	912.0
172.5°	928.7	926.8	928.7	930.6	931.1	925.0	916.8	912.6	912.6	912.6	912.6
175°	924.4	924.4	924.4	924.4	924.4	920.4	915.2	912.6	913.8	916.3	918.1
177.5°	920.3	918.1	920.3	922.5	923.1	920.0	916.0	913.9	914.9	916.8	918.1
180°	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1



TEST NUMBER: P935818

CATALOG NUMBER: SQ4-FA-150U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	710.3	706.3	706.3	699.7	697.0	695.1	691.8	681.8	679.2	676.5	680.5
5°	716.3	709.0	703.7	691.8	681.8	677.9	665.2	641.4	625.5	613.5	606.9
7.5°	717.6	708.3	698.4	679.8	655.9	645.4	606.9	563.3	551.3	540.7	534.0
10°	716.3	705.6	691.8	663.9	607.6	589.0	550.6	522.2	514.8	512.9	514.8
12.5°	711.7	701.7	682.5	636.1	557.2	544.7	522.2	505.6	504.3	507.5	525.4
15°	703.7	694.4	671.8	599.0	529.5	520.2	504.3	498.2	505.6	528.8	582.4
17.5°	695.7	685.2	657.3	562.6	508.2	501.6	490.3	502.3	543.3	574.5	592.4
20°	685.2	672.5	640.7	536.1	493.0	487.0	481.7	535.4	566.5	577.8	587.8
22.5°	672.5	659.3	618.2	517.5	477.1	472.5	475.7	554.0	566.5	574.5	583.1
25°	655.9	644.7	591.7	502.9	464.5	459.2	471.8	552.0	559.2	561.2	578.5
27.5°	640.7	626.2	563.9	489.7	449.2	447.3	475.1	543.3	548.6	550.6	569.2
30°	622.1	600.3	532.7	475.7	433.3	432.6	475.7	532.7	531.4	536.7	555.3
32.5°	603.0	561.9	497.7	458.5	418.1	417.4	471.1	516.8	515.5	522.8	536.7
35°	585.1	532.0	449.9	438.7	398.9	399.5	459.8	498.2	498.9	505.6	514.2
37.5°	566.5	506.3	397.6	416.7	380.4	380.4	444.6	481.1	479.8	481.7	493.6
40°	544.7	465.8	351.1	388.3	363.1	361.1	426.0	462.5	457.8	457.2	473.7
42.5°	521.5	421.4	316.8	350.5	343.2	340.6	403.5	440.0	431.4	433.3	454.6
45°	496.3	409.5	290.2	296.2	322.7	320.7	379.0	414.2	408.1	413.5	435.3
47.5°	471.1	385.6	281.6	245.8	300.8	300.2	351.8	389.0	385.6	391.0	414.2
50°	436.7	359.1	281.0	210.7	276.3	278.9	319.4	364.5	364.5	369.1	393.6
52.5°	392.2	326.6	255.1	190.8	247.8	255.8	290.9	343.2	344.5	349.2	371.1
55°	351.8	292.8	236.5	175.6	214.0	231.3	263.0	321.4	324.0	328.6	348.6
57.5°	314.8	243.8	232.6	157.7	182.9	199.5	238.5	300.2	301.4	305.5	324.7
60°	275.0	176.3	213.4	138.5	155.7	168.3	216.0	275.0	279.6	282.3	298.9
62.5°	229.9	127.8	193.5	125.3	142.5	145.1	197.5	251.1	257.1	259.1	269.0
65°	163.7	107.3	164.3	114.0	128.5	129.2	177.5	226.6	231.9	235.2	242.6
67.5°	110.7	87.4	125.3	103.3	118.0	118.6	158.4	198.1	205.4	208.1	212.7
70°	76.9	58.3	92.8	92.1	106.0	107.3	137.8	172.3	178.9	180.9	183.6
72.5°	56.3	47.0	76.9	82.8	93.5	94.7	116.6	143.2	149.8	151.8	153.0
75°	43.1	49.7	62.2	72.2	79.5	80.1	95.4	116.6	121.2	122.6	123.2
77.5°	34.5	46.3	45.7	58.3	64.9	63.6	74.9	90.1	94.1	94.1	94.1
80°	25.9	36.5	34.5	41.8	47.7	46.3	53.6	64.3	65.6	66.9	66.3
82.5°	19.2	23.2	23.2	26.5	31.8	30.5	35.8	41.8	41.8	41.8	43.1
85°	12.0	13.2	10.6	13.9	17.9	17.2	19.9	22.5	23.2	23.2	21.8
87.5°	7.3	5.9	3.4	5.3	7.9	7.9	9.3	10.0	9.3	9.3	9.3
90°	16.0	11.1	6.1	11.1	16.0	17.3	27.2	40.3	46.8	41.6	31.2
92.5°	108.5	66.5	24.6	66.5	108.5	119.0	167.2	231.5	263.7	231.1	166.0
95°	212.5	135.8	59.2	135.8	212.5	231.7	411.4	651.1	770.9	687.9	522.0
97.5°	237.6	169.9	102.3	169.9	237.6	254.5	554.2	953.8	1153.6	1101.1	996.2
100°	258.3	196.9	135.6	196.9	258.3	273.6	606.1	1049.6	1271.3	1275.1	1282.8
102.5°	278.4	221.2	163.9	221.2	278.4	292.7	630.0	1079.7	1304.6	1371.3	1505.0
105°	308.9	260.5	212.0	260.5	308.9	321.1	647.6	1083.0	1300.8	1450.6	1750.2
107.5°	351.7	306.5	261.3	306.5	351.7	363.0	651.0	1034.9	1226.9	1435.9	1853.8
110°	376.2	335.3	294.5	335.3	376.2	386.4	646.1	992.1	1165.2	1398.9	1866.1



TEST NUMBER: P935818

CATALOG NUMBER: SQ4-FA-150U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	405.1	366.2	327.2	366.2	405.1	414.8	646.3	954.9	1109.2	1348.3	1826.5
115°	448.3	412.4	376.5	412.4	448.3	457.2	652.2	912.1	1042.0	1272.3	1733.1
117.5°	490.4	457.8	425.2	457.8	490.4	498.5	664.3	885.3	995.8	1203.7	1619.4
120°	514.8	484.2	453.5	484.2	514.8	522.6	674.1	876.3	977.3	1167.2	1547.1
122.5°	543.2	512.2	481.3	512.2	543.2	550.9	688.3	871.6	963.2	1134.2	1476.3
125°	580.3	552.0	523.8	552.0	580.3	587.3	707.4	867.7	947.8	1093.0	1383.6
127.5°	615.2	586.8	558.3	586.8	615.2	622.3	726.5	865.4	934.8	1059.6	1309.1
130°	638.1	607.4	576.8	607.4	638.1	645.8	740.5	866.8	929.9	1041.0	1263.1
132.5°	657.2	626.6	595.9	626.6	657.2	664.9	751.8	867.7	925.6	1025.0	1223.8
135°	680.0	652.2	624.2	652.2	680.0	687.1	764.1	866.8	918.1	1001.4	1167.9
137.5°	708.5	680.8	653.2	680.8	708.5	715.4	782.6	872.2	917.0	987.3	1128.1
140°	728.3	702.8	677.3	702.8	728.3	734.6	794.0	873.1	912.6	973.4	1095.0
142.5°	742.8	719.3	695.7	719.3	742.8	748.7	803.3	876.2	912.6	966.1	1072.9
145°	765.1	744.7	724.1	744.7	765.1	770.2	815.7	876.3	906.5	950.2	1037.5
147.5°	792.4	772.4	752.4	772.4	792.4	797.4	833.8	882.3	906.5	940.9	1009.5
150°	807.0	789.0	770.9	789.0	807.0	811.5	843.2	885.3	906.5	935.5	993.5
152.5°	817.4	803.7	790.0	803.7	817.4	820.8	849.4	887.4	906.5	931.3	980.9
155°	838.6	828.5	818.4	828.5	838.6	841.2	862.9	892.0	906.5	926.2	965.7
157.5°	859.0	849.2	839.3	849.2	859.0	861.4	876.5	896.5	906.5	921.8	952.4
160°	868.8	861.1	853.4	861.1	868.8	870.7	882.7	898.6	906.5	919.6	945.9
162.5°	879.1	873.4	867.7	873.4	879.1	880.6	889.2	900.8	906.5	917.6	939.8
165°	893.4	888.2	883.1	888.2	893.4	894.7	898.7	903.9	906.5	914.4	930.3
167.5°	902.1	899.7	897.2	899.7	902.1	902.7	906.0	910.4	912.6	917.9	928.2
170°	911.4	909.0	906.5	909.0	911.4	912.0	912.2	912.5	912.6	917.9	928.2
172.5°	912.5	911.9	911.4	911.9	912.5	912.6	912.6	912.6	912.6	916.8	925.0
175°	918.1	918.1	918.1	918.1	918.1	918.1	916.3	913.8	912.6	915.2	920.4
177.5°	918.1	918.1	918.1	918.1	918.1	918.1	916.8	914.9	913.9	916.0	920.0
180°	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1



TEST NUMBER: P935818

CATALOG NUMBER: SQ4-FA-150U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	675.9	673.9	676.5	669.3	676.5	673.9	675.9	680.5	676.5	679.2	681.8
5°	593.0	589.7	579.2	570.5	579.2	589.7	593.0	606.9	613.5	625.5	641.4
7.5°	530.1	527.4	524.8	519.5	524.8	527.4	530.1	534.0	540.7	551.3	563.3
10°	516.1	516.8	520.8	520.2	520.8	516.8	516.1	514.8	512.9	514.8	522.2
12.5°	552.0	557.9	579.8	578.5	579.8	557.9	552.0	525.4	507.5	504.3	505.6
15°	593.0	595.0	599.6	600.3	599.6	595.0	593.0	582.4	528.8	505.6	498.2
17.5°	597.0	597.6	601.0	601.0	601.0	597.6	597.0	592.4	574.5	543.3	502.3
20°	593.7	595.0	601.7	603.0	601.7	595.0	593.7	587.8	577.8	566.5	535.4
22.5°	592.4	595.0	600.3	599.6	600.3	595.0	592.4	583.1	574.5	566.5	554.0
25°	585.8	585.8	586.4	587.1	586.4	585.8	585.8	578.5	561.2	559.2	552.0
27.5°	571.9	573.1	577.1	576.5	577.1	573.1	571.9	569.2	550.6	548.6	543.3
30°	559.2	557.9	554.6	552.0	554.6	557.9	559.2	555.3	536.7	531.4	532.7
32.5°	538.1	534.7	531.4	529.5	531.4	534.7	538.1	536.7	522.8	515.5	516.8
35°	512.9	513.6	512.9	510.9	512.9	513.6	512.9	514.2	505.6	498.9	498.2
37.5°	495.0	496.3	495.6	493.0	495.6	496.3	495.0	493.6	481.7	479.8	481.1
40°	476.4	477.1	476.4	474.4	476.4	477.1	476.4	473.7	457.2	457.8	462.5
42.5°	458.5	457.8	455.9	454.6	455.9	457.8	458.5	454.6	433.3	431.4	440.0
45°	438.0	438.7	434.6	432.6	434.6	438.7	438.0	435.3	413.5	408.1	414.2
47.5°	417.4	417.4	414.2	412.1	414.2	417.4	417.4	414.2	391.0	385.6	389.0
50°	395.6	394.9	390.3	389.6	390.3	394.9	395.6	393.6	369.1	364.5	364.5
52.5°	370.4	370.4	371.1	372.4	371.1	370.4	370.4	371.1	349.2	344.5	343.2
55°	348.6	349.2	353.8	355.2	353.8	349.2	348.6	348.6	328.6	324.0	321.4
57.5°	326.0	326.0	329.3	329.3	329.3	326.0	326.0	324.7	305.5	301.4	300.2
60°	300.2	301.4	304.1	303.5	304.1	301.4	300.2	298.9	282.3	279.6	275.0
62.5°	273.0	274.4	275.0	273.7	275.0	274.4	273.0	269.0	259.1	257.1	251.1
65°	244.5	245.8	246.5	245.1	246.5	245.8	244.5	242.6	235.2	231.9	226.6
67.5°	215.4	214.7	214.0	216.7	214.0	214.7	215.4	212.7	208.1	205.4	198.1
70°	185.5	185.5	184.9	186.2	184.9	185.5	185.5	183.6	180.9	178.9	172.3
72.5°	153.7	153.0	155.7	153.7	155.7	153.0	153.7	153.0	151.8	149.8	143.2
75°	122.6	123.9	122.6	124.6	122.6	123.9	122.6	123.2	122.6	121.2	116.6
77.5°	93.5	94.7	93.5	93.5	93.5	94.7	93.5	94.1	94.1	94.1	90.1
80°	66.3	65.6	65.6	64.9	65.6	65.6	66.3	66.3	66.9	65.6	64.3
82.5°	42.4	41.8	41.8	43.1	41.8	41.8	42.4	43.1	41.8	41.8	41.8
85°	23.2	23.8	22.5	22.5	22.5	23.8	23.2	21.8	23.2	23.2	22.5
87.5°	8.6	7.9	7.9	7.9	7.9	7.9	8.6	9.3	9.3	9.3	10.0
90°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	31.2	41.6	46.8	40.3
92.5°	117.1	112.4	93.8	75.2	93.8	112.4	117.1	166.0	231.1	263.7	231.5
95°	397.5	383.3	326.9	270.5	326.9	383.3	397.5	522.0	687.9	770.9	651.1
97.5°	917.6	890.7	783.4	676.0	783.4	890.7	917.6	996.2	1101.1	1153.6	953.8
100°	1288.5	1256.5	1128.7	1000.7	1128.7	1256.5	1288.5	1282.8	1275.1	1271.3	1049.6
102.5°	1605.3	1577.9	1468.4	1358.8	1468.4	1577.9	1605.3	1505.0	1371.3	1304.6	1079.7
105°	1975.0	1960.3	1901.4	1842.5	1901.4	1960.3	1975.0	1750.2	1450.6	1300.8	1083.0
107.5°	2167.3	2170.8	2185.1	2199.3	2185.1	2170.8	2167.3	1853.8	1435.9	1226.9	1034.9
110°	2216.6	2231.9	2293.2	2354.6	2293.2	2231.9	2216.6	1866.1	1398.9	1165.2	992.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2185.2	2208.7	2302.9	2397.1	2302.9	2208.7	2185.2	1826.5	1348.3	1109.2	954.9
115°	2078.6	2111.3	2241.9	2372.5	2241.9	2111.3	2078.6	1733.1	1272.3	1042.0	912.1
117.5°	1931.2	1967.5	2112.3	2257.2	2112.3	1967.5	1931.2	1619.4	1203.7	995.8	885.3
120°	1832.0	1867.2	2008.0	2148.8	2008.0	1867.2	1832.0	1547.1	1167.2	977.3	876.3
122.5°	1732.9	1767.5	1906.4	2045.3	1906.4	1767.5	1732.9	1476.3	1134.2	963.2	871.6
125°	1601.5	1633.6	1761.4	1889.4	1761.4	1633.6	1601.5	1383.6	1093.0	947.8	867.7
127.5°	1496.2	1523.2	1631.1	1739.0	1631.1	1523.2	1496.2	1309.1	1059.6	934.8	865.4
130°	1429.6	1454.5	1554.2	1653.9	1554.2	1454.5	1429.6	1263.1	1041.0	929.9	866.8
132.5°	1372.9	1395.3	1484.5	1573.8	1484.5	1395.3	1372.9	1223.8	1025.0	925.6	867.7
135°	1292.8	1312.1	1389.0	1466.0	1389.0	1312.1	1292.8	1167.9	1001.4	918.1	866.8
137.5°	1233.7	1249.4	1312.5	1375.4	1312.5	1249.4	1233.7	1128.1	987.3	917.0	872.2
140°	1186.2	1200.9	1259.8	1318.7	1259.8	1200.9	1186.2	1095.0	973.4	912.6	873.1
142.5°	1153.0	1165.6	1216.3	1266.9	1216.3	1165.6	1153.0	1072.9	966.1	912.6	876.2
145°	1103.0	1112.6	1151.0	1189.4	1151.0	1112.6	1103.0	1037.5	950.2	906.5	876.3
147.5°	1061.1	1069.0	1100.8	1132.6	1100.8	1069.0	1061.1	1009.5	940.9	906.5	882.3
150°	1037.1	1043.5	1069.3	1095.0	1069.3	1043.5	1037.1	993.5	935.5	906.5	885.3
152.5°	1018.0	1022.9	1042.3	1061.7	1042.3	1022.9	1018.0	980.9	931.3	906.5	887.4
155°	995.2	998.5	1011.3	1024.2	1011.3	998.5	995.2	965.7	926.2	906.5	892.0
157.5°	975.5	977.7	986.7	995.8	986.7	977.7	975.5	952.4	921.8	906.5	896.5
160°	965.6	966.9	972.1	977.3	972.1	966.9	965.6	945.9	919.6	906.5	898.6
162.5°	956.4	957.6	962.5	967.4	962.5	957.6	956.4	939.8	917.6	906.5	900.8
165°	942.2	943.4	948.7	953.9	948.7	943.4	942.2	930.3	914.4	906.5	903.9
167.5°	936.0	936.6	938.8	941.0	938.8	936.6	936.0	928.2	917.9	912.6	910.4
170°	936.0	936.0	936.0	936.0	936.0	936.0	936.0	928.2	917.9	912.6	912.5
172.5°	931.1	930.6	928.7	926.8	928.7	930.6	931.1	925.0	916.8	912.6	912.6
175°	924.4	924.4	924.4	924.4	924.4	924.4	924.4	920.4	915.2	912.6	913.8
177.5°	923.1	922.5	920.3	918.1	920.3	922.5	923.1	920.0	916.0	913.9	914.9
180°	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	700.4	700.4	700.4	700.4	700.4
2.5°	691.8	695.1	697.0	699.7	706.3
5°	665.2	677.9	681.8	691.8	703.7
7.5°	606.9	645.4	655.9	679.8	698.4
10°	550.6	589.0	607.6	663.9	691.8
12.5°	522.2	544.7	557.2	636.1	682.5
15°	504.3	520.2	529.5	599.0	671.8
17.5°	490.3	501.6	508.2	562.6	657.3
20°	481.7	487.0	493.0	536.1	640.7
22.5°	475.7	472.5	477.1	517.5	618.2
25°	471.8	459.2	464.5	502.9	591.7
27.5°	475.1	447.3	449.2	489.7	563.9
30°	475.7	432.6	433.3	475.7	532.7
32.5°	471.1	417.4	418.1	458.5	497.7
35°	459.8	399.5	398.9	438.7	449.9
37.5°	444.6	380.4	380.4	416.7	397.6
40°	426.0	361.1	363.1	388.3	351.1
42.5°	403.5	340.6	343.2	350.5	316.8
45°	379.0	320.7	322.7	296.2	290.2
47.5°	351.8	300.2	300.8	245.8	281.6
50°	319.4	278.9	276.3	210.7	281.0
52.5°	290.9	255.8	247.8	190.8	255.1
55°	263.0	231.3	214.0	175.6	236.5
57.5°	238.5	199.5	182.9	157.7	232.6
60°	216.0	168.3	155.7	138.5	213.4
62.5°	197.5	145.1	142.5	125.3	193.5
65°	177.5	129.2	128.5	114.0	164.3
67.5°	158.4	118.6	118.0	103.3	125.3
70°	137.8	107.3	106.0	92.1	92.8
72.5°	116.6	94.7	93.5	82.8	76.9
75°	95.4	80.1	79.5	72.2	62.2
77.5°	74.9	63.6	64.9	58.3	45.7
80°	53.6	46.3	47.7	41.8	34.5
82.5°	35.8	30.5	31.8	26.5	23.2
85°	19.9	17.2	17.9	13.9	10.6
87.5°	9.3	7.9	7.9	5.3	3.4
90°	27.2	17.3	16.0	11.1	6.1
92.5°	167.2	119.0	108.5	66.5	24.6
95°	411.4	231.7	212.5	135.8	59.2
97.5°	554.2	254.5	237.6	169.9	102.3
100°	606.1	273.6	258.3	196.9	135.6
102.5°	630.0	292.7	278.4	221.2	163.9
105°	647.6	321.1	308.9	260.5	212.0
107.5°	651.0	363.0	351.7	306.5	261.3
110°	646.1	386.4	376.2	335.3	294.5



TEST NUMBER: P935818

CATALOG NUMBER: SQ4-FA-150U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	646.3	414.8	405.1	366.2	327.2
115°	652.2	457.2	448.3	412.4	376.5
117.5°	664.3	498.5	490.4	457.8	425.2
120°	674.1	522.6	514.8	484.2	453.5
122.5°	688.3	550.9	543.2	512.2	481.3
125°	707.4	587.3	580.3	552.0	523.8
127.5°	726.5	622.3	615.2	586.8	558.3
130°	740.5	645.8	638.1	607.4	576.8
132.5°	751.8	664.9	657.2	626.6	595.9
135°	764.1	687.1	680.0	652.2	624.2
137.5°	782.6	715.4	708.5	680.8	653.2
140°	794.0	734.6	728.3	702.8	677.3
142.5°	803.3	748.7	742.8	719.3	695.7
145°	815.7	770.2	765.1	744.7	724.1
147.5°	833.8	797.4	792.4	772.4	752.4
150°	843.2	811.5	807.0	789.0	770.9
152.5°	849.4	820.8	817.4	803.7	790.0
155°	862.9	841.2	838.6	828.5	818.4
157.5°	876.5	861.4	859.0	849.2	839.3
160°	882.7	870.7	868.8	861.1	853.4
162.5°	889.2	880.6	879.1	873.4	867.7
165°	898.7	894.7	893.4	888.2	883.1
167.5°	906.0	902.7	902.1	899.7	897.2
170°	912.2	912.0	911.4	909.0	906.5
172.5°	912.6	912.6	912.5	911.9	911.4
175°	916.3	918.1	918.1	918.1	918.1
177.5°	916.8	918.1	918.1	918.1	918.1
180°	918.1	918.1	918.1	918.1	918.1



TEST NUMBER: P935818
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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	8.09	8.75	9.24	9.89	11.50	10.88	11.55	12.04	12.69	14.30
	3H	8.55	9.14	9.71	10.29	11.92	12.20	12.80	13.37	13.95	15.57
	4H	8.73	9.30	9.90	10.45	12.07	12.63	13.20	13.80	14.35	15.97
	6H	8.84	9.36	10.02	10.51	12.15	12.90	13.42	14.08	14.57	16.21
	8H	8.83	9.33	10.02	10.50	12.13	12.96	13.46	14.15	14.63	16.25
	12H	8.80	9.27	9.98	10.43	12.08	12.99	13.46	14.18	14.62	16.27
4H	2H	9.09	9.65	10.27	10.80	12.43	11.27	11.84	12.45	12.99	14.61
	3H	10.09	10.57	11.28	11.74	13.38	12.75	13.22	13.93	14.40	16.03
	4H	10.36	10.80	11.55	11.96	13.62	13.26	13.69	14.45	14.86	16.52
	6H	10.48	10.85	11.67	12.03	13.68	13.61	13.98	14.80	15.16	16.81
	8H	10.48	10.82	11.67	12.00	13.67	13.70	14.05	14.89	15.23	16.89
	12H	10.44	10.75	11.64	11.94	13.61	13.75	14.06	14.95	15.25	16.92
8H	4H	10.79	11.14	11.98	12.32	13.98	13.37	13.72	14.56	14.89	16.56
	6H	11.05	11.33	12.26	12.55	14.21	13.79	14.08	15.00	15.30	16.96
	8H	11.09	11.34	12.30	12.54	14.21	13.93	14.18	15.15	15.38	17.06
	12H	11.06	11.28	12.28	12.48	14.19	14.02	14.24	15.24	15.43	17.14
12H	4H	10.79	11.10	12.00	12.29	13.96	13.32	13.64	14.53	14.83	16.50
	6H	11.11	11.35	12.32	12.55	14.23	13.79	14.03	15.00	15.23	16.91
	8H	11.16	11.38	12.38	12.58	14.29	13.93	14.15	15.15	15.35	17.06