

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: P935998

Luminaire Tested: SQ4-FA-150U-075D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935998
REPORT IS A COMBINATION OF REPORTS P933774 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-075D-B35-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

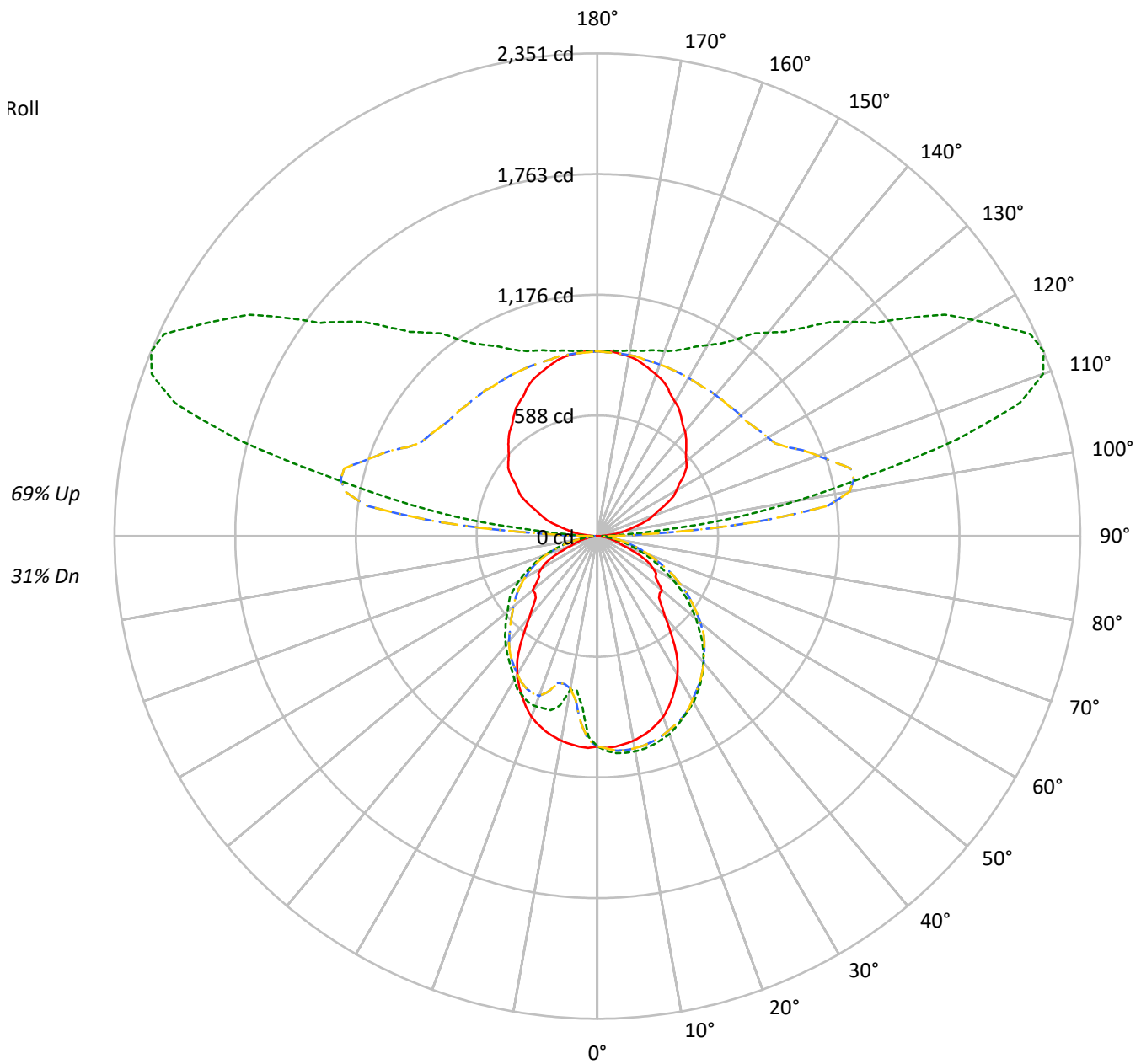
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8497.1 lumens
Efficiency: N/A
Efficacy: 133.6 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): 63.6
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

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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	34	34	33	34	34	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	30	29	28	22
3	78	69	61	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	33	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	23	21	19	17	15	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	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	14	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°	9505	9505	9505	9505
5°	9566	9595	9566	7545
10°	9491	9453	9491	6758
15°	9378	9248	9378	7721
20°	9170	9004	9170	7737
25°	8758	8650	8758	7573
30°	8230	8357	8230	7214
35°	7325	7985	7325	6818
40°	6095	7548	6095	6519
45°	5435	7036	5435	6176
50°	5762	6425	5762	5831
55°	5405	5768	5405	5631
60°	5550	4899	5550	5158
65°	5008	4048	5008	4526
70°	3445	3227	3445	3794
75°	2987	2384	2987	2856
80°	2359	1577	2359	1718
85°	1283	836	1283	709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8346 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	1.1
10°-20°	262.5	3.1
20°-30°	405.8	4.8
30°-40°	484.5	5.7
40°-50°	487.3	5.7
50°-60°	424.0	5.0
60°-70°	300.6	3.5
70°-80°	159.0	1.9
80°-90°	43.0	0.5
90°-100°	439.0	5.2
100°-110°	1154.1	13.6
110°-120°	1196.6	14.1
120°-130°	959.8	11.3
130°-140°	753.1	8.9
140°-150°	578.1	6.8
150°-160°	416.3	4.9
160°-170°	254.7	3.0
170°-180°	86.1	1.0
0°-30°	760.8	9.0
0°-40°	1245.3	14.7
0°-60°	2156.7	25.4
0°-90°	2659.4	31.3
90°-120°	2789.6	32.8
90°-150°	5080.6	59.8
90°-180°	5838.0	68.7
0°-180°	8497.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1024	1024	1024	1024	1024	
5°	1029	1061	1029	834	1029	98
15°	983	1052	983	878	983	276
25°	865	981	865	859	865	397
35°	658	875	658	747	658	407
45°	424	721	424	633	424	340
55°	346	532	346	520	346	318
65°	240	321	240	359	240	230
75°	91	152	91	182	91	96
85°	16	39	16	33	16	21
90°	6	23	6	23	6	6
95°	58	265	58	265	58	64
105°	208	1807	208	1807	208	220
115°	369	2327	369	2327	369	365
125°	514	1853	514	1853	514	456
135°	612	1438	612	1438	612	474
145°	710	1166	710	1166	710	445
155°	803	1004	803	1004	803	369
165°	866	936	866	936	866	244
175°	900	907	900	907	900	85
180°	900	900	900	900	900	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1033.1	1033.1	1039.0	1040.9	1040.9	1038.0	1035.1	1038.0	1046.7	1049.6	1048.7
5°	1029.2	1037.0	1047.7	1049.6	1051.6	1050.6	1048.7	1050.6	1060.3	1062.2	1063.2
7.5°	1021.4	1036.1	1049.6	1052.5	1055.4	1052.5	1051.6	1053.5	1063.2	1065.1	1065.1
10°	1011.7	1032.1	1047.7	1049.6	1052.5	1049.6	1049.6	1053.5	1063.2	1065.1	1066.1
12.5°	998.2	1026.3	1040.9	1042.8	1046.7	1045.7	1044.8	1048.7	1058.3	1060.3	1060.3
15°	982.7	1015.6	1029.2	1031.1	1038.0	1036.1	1036.1	1039.9	1050.6	1053.5	1052.5
17.5°	961.3	1002.0	1017.5	1020.5	1025.3	1024.3	1025.3	1029.2	1039.0	1040.9	1041.9
20°	937.1	983.6	1002.0	1004.9	1009.8	1009.8	1009.8	1014.6	1024.3	1028.2	1028.2
22.5°	904.2	964.3	983.6	985.6	991.4	991.4	993.3	1000.1	1008.8	1009.8	1009.8
25°	865.4	942.9	959.4	965.2	971.0	973.9	976.8	980.7	983.6	982.7	983.6
27.5°	824.7	915.8	937.1	941.0	948.7	951.7	955.5	956.5	957.5	960.4	958.4
30°	779.2	878.0	910.0	913.9	926.5	928.4	924.5	926.5	931.3	933.2	935.2
32.5°	727.8	821.8	881.9	890.6	902.2	896.4	895.5	898.4	906.1	906.1	908.0
35°	658.0	778.2	855.7	863.5	872.2	865.4	869.3	870.3	875.1	878.0	877.0
37.5°	581.5	740.4	828.6	834.4	841.2	832.5	838.3	841.2	845.1	843.1	843.1
40°	513.7	681.3	796.6	800.5	806.3	799.5	805.3	807.3	809.2	807.3	806.3
42.5°	463.3	616.4	762.7	767.5	763.7	768.5	770.5	774.3	771.4	767.5	767.5
45°	424.5	598.9	725.9	731.7	725.9	733.6	736.5	736.5	727.8	725.9	724.9
47.5°	411.9	564.1	689.1	689.1	686.1	695.8	700.7	693.9	685.2	682.3	682.3
50°	411.0	525.3	638.7	634.8	648.4	660.0	655.1	648.4	641.6	630.9	630.9
52.5°	373.2	477.8	573.7	588.3	609.6	616.4	608.6	601.8	590.2	585.4	581.5
55°	346.0	428.4	514.6	543.7	566.0	574.7	560.2	553.4	536.0	533.0	531.1
57.5°	340.1	356.7	460.4	497.2	524.3	523.4	514.6	502.0	487.5	484.6	483.6
60°	312.0	257.8	402.2	445.8	473.9	471.0	463.3	451.7	438.1	436.1	434.2
62.5°	282.9	187.0	336.2	385.8	425.5	424.5	417.7	400.3	390.6	385.8	381.9
65°	240.3	157.0	239.3	320.7	378.0	379.9	365.4	352.8	342.1	336.2	335.3
67.5°	183.1	127.9	161.8	267.4	332.4	330.4	312.0	306.2	292.6	289.7	283.9
70°	135.7	85.3	112.4	217.1	287.8	282.9	268.4	261.6	249.0	242.2	238.4
72.5°	112.4	68.8	82.4	168.6	242.2	236.4	223.8	216.1	205.4	199.6	195.7
75°	91.1	72.7	63.0	125.0	196.7	192.8	181.2	173.5	164.7	157.0	157.9
77.5°	66.9	67.8	50.4	92.1	156.0	150.2	143.4	133.7	129.8	122.1	122.1
80°	50.4	53.3	37.8	63.0	112.4	112.4	106.6	99.8	93.0	89.1	89.1
82.5°	33.9	33.9	28.1	39.7	76.6	73.6	69.8	67.8	64.0	62.0	62.0
85°	15.5	19.4	17.4	24.2	41.7	43.6	43.6	41.7	40.7	38.8	39.7
87.5°	4.8	8.7	10.7	13.6	21.3	22.3	23.3	23.3	23.3	24.2	24.2
90°	6.0	10.9	15.7	17.0	26.6	39.5	45.9	40.8	30.6	23.0	23.0
92.5°	24.1	65.2	106.4	116.7	164.0	227.0	258.6	226.6	162.8	114.8	110.3
95°	58.0	133.2	208.4	227.2	403.5	638.6	756.1	674.7	511.9	389.8	376.0
97.5°	100.3	166.7	233.0	249.6	543.5	935.5	1131.4	1080.0	977.0	899.9	873.6
100°	132.9	193.1	253.3	268.3	594.5	1029.4	1246.8	1250.6	1258.1	1263.8	1232.4
102.5°	160.8	217.0	273.1	287.1	617.9	1058.9	1279.5	1345.0	1476.1	1574.4	1547.6
105°	207.9	255.5	303.0	314.9	635.2	1062.2	1275.8	1422.7	1716.6	1937.0	1922.6
107.5°	256.3	300.6	345.0	356.0	638.5	1015.0	1203.3	1408.2	1818.1	2125.6	2129.1
110°	288.9	328.9	369.0	379.0	633.6	973.1	1142.8	1372.0	1830.2	2174.0	2189.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	320.9	359.1	397.3	406.8	633.8	936.5	1087.9	1322.4	1791.4	2143.1	2166.2
115°	369.3	404.5	439.6	448.5	639.6	894.6	1022.0	1247.9	1699.7	2038.6	2070.7
117.5°	417.1	449.0	481.0	489.0	651.6	868.3	976.7	1180.5	1588.3	1894.1	1929.7
120°	444.8	474.9	504.9	512.5	661.1	859.4	958.5	1144.8	1517.4	1796.8	1831.3
122.5°	472.0	502.3	532.8	540.3	675.1	854.9	944.7	1112.4	1447.9	1699.5	1733.5
125°	513.8	541.4	569.1	576.0	693.8	851.0	929.6	1072.0	1357.0	1570.7	1602.1
127.5°	547.6	575.5	603.4	610.4	712.5	848.7	916.9	1039.3	1283.9	1467.5	1493.9
130°	565.7	595.7	625.8	633.3	726.3	850.1	912.0	1020.9	1238.8	1402.1	1426.6
132.5°	584.4	614.5	644.6	652.1	737.3	851.0	907.8	1005.2	1200.3	1346.5	1368.4
135°	612.2	639.6	667.0	673.8	749.4	850.1	900.5	982.2	1145.5	1267.9	1286.8
137.5°	640.6	667.7	694.9	701.7	767.5	855.4	899.3	968.3	1106.4	1210.0	1225.4
140°	664.2	689.2	714.2	720.5	778.7	856.3	895.1	954.7	1073.9	1163.4	1177.8
142.5°	682.4	705.4	728.5	734.3	787.9	859.3	895.1	947.5	1052.2	1130.8	1143.2
145°	710.2	730.3	750.4	755.4	800.0	859.4	889.1	931.9	1017.5	1081.8	1091.2
147.5°	737.9	757.6	777.1	782.1	817.7	865.3	889.1	922.8	990.1	1040.7	1048.5
150°	756.1	773.8	791.5	795.9	826.9	868.3	889.1	917.5	974.4	1017.2	1023.5
152.5°	774.8	788.3	801.7	805.0	833.0	870.4	889.1	913.4	962.0	998.5	1003.2
155°	802.6	812.6	822.5	825.0	846.3	874.8	889.1	908.4	947.1	976.1	979.3
157.5°	823.2	832.9	842.4	844.9	859.6	879.3	889.1	904.1	934.1	956.7	958.9
160°	837.0	844.6	852.1	854.0	865.7	881.3	889.1	901.9	927.7	947.0	948.3
162.5°	851.0	856.6	862.2	863.7	872.1	883.4	889.1	899.9	921.7	938.0	939.2
165°	866.1	871.1	876.3	877.5	881.4	886.5	889.1	896.8	912.4	924.0	925.3
167.5°	879.9	882.4	884.8	885.4	888.6	892.9	895.1	900.2	910.4	918.0	918.6
170°	889.1	891.5	893.9	894.5	894.7	895.0	895.1	900.2	910.4	918.0	918.0
172.5°	893.9	894.4	895.0	895.1	895.1	895.1	895.1	899.1	907.2	913.2	912.7
175°	900.5	900.5	900.5	900.5	898.7	896.2	895.1	897.6	902.7	906.6	906.6
177.5°	900.5	900.5	900.5	900.5	899.1	897.3	896.3	898.4	902.3	905.3	904.8
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1050.6	1047.7	1050.6	1048.7	1049.6	1046.7	1038.0	1035.1	1038.0	1040.9	1040.9
5°	1063.2	1061.2	1063.2	1063.2	1062.2	1060.3	1050.6	1048.7	1050.6	1051.6	1049.6
7.5°	1067.1	1064.2	1067.1	1065.1	1065.1	1063.2	1053.5	1051.6	1052.5	1055.4	1052.5
10°	1067.1	1064.2	1067.1	1066.1	1065.1	1063.2	1053.5	1049.6	1049.6	1052.5	1049.6
12.5°	1062.2	1060.3	1062.2	1060.3	1060.3	1058.3	1048.7	1044.8	1045.7	1046.7	1042.8
15°	1054.5	1051.6	1054.5	1052.5	1053.5	1050.6	1039.9	1036.1	1036.1	1038.0	1031.1
17.5°	1042.8	1039.0	1042.8	1041.9	1040.9	1039.0	1029.2	1025.3	1024.3	1025.3	1020.5
20°	1029.2	1026.3	1029.2	1028.2	1028.2	1024.3	1014.6	1009.8	1009.8	1009.8	1004.9
22.5°	1007.9	1004.9	1007.9	1009.8	1009.8	1008.8	1000.1	993.3	991.4	991.4	985.6
25°	983.6	980.7	983.6	983.6	982.7	983.6	980.7	976.8	973.9	971.0	965.2
27.5°	960.4	958.4	960.4	958.4	960.4	957.5	956.5	955.5	951.7	948.7	941.0
30°	937.1	935.2	937.1	935.2	933.2	931.3	926.5	924.5	928.4	926.5	913.9
32.5°	908.0	906.1	908.0	908.0	906.1	906.1	898.4	895.5	896.4	902.2	890.6
35°	878.0	875.1	878.0	877.0	878.0	875.1	870.3	869.3	865.4	872.2	863.5
37.5°	843.1	840.2	843.1	843.1	843.1	845.1	841.2	838.3	832.5	841.2	834.4
40°	807.3	803.4	807.3	806.3	807.3	809.2	807.3	805.3	799.5	806.3	800.5
42.5°	766.6	765.6	766.6	767.5	767.5	771.4	774.3	770.5	768.5	763.7	767.5
45°	723.0	721.0	723.0	724.9	725.9	727.8	736.5	736.5	733.6	725.9	731.7
47.5°	676.5	671.6	676.5	682.3	682.3	685.2	693.9	700.7	695.8	686.1	689.1
50°	627.0	628.0	627.0	630.9	630.9	641.6	648.4	655.1	660.0	648.4	634.8
52.5°	578.6	577.6	578.6	581.5	585.4	590.2	601.8	608.6	616.4	609.6	588.3
55°	530.1	532.1	530.1	531.1	533.0	536.0	553.4	560.2	574.7	566.0	543.7
57.5°	481.7	478.8	481.7	483.6	484.6	487.5	502.0	514.6	523.4	524.3	497.2
60°	425.5	421.6	425.5	434.2	436.1	438.1	451.7	463.3	471.0	473.9	445.8
62.5°	376.1	369.3	376.1	381.9	385.8	390.6	400.3	417.7	424.5	425.5	385.8
65°	323.6	320.7	323.6	335.3	336.2	342.1	352.8	365.4	379.9	378.0	320.7
67.5°	276.2	276.2	276.2	283.9	289.7	292.6	306.2	312.0	330.4	332.4	267.4
70°	232.6	231.6	232.6	238.4	242.2	249.0	261.6	268.4	282.9	287.8	217.1
72.5°	190.9	189.9	190.9	195.7	199.6	205.4	216.1	223.8	236.4	242.2	168.6
75°	154.1	152.1	154.1	157.9	157.0	164.7	173.5	181.2	192.8	196.7	125.0
77.5°	118.2	118.2	118.2	122.1	122.1	129.8	133.7	143.4	150.2	156.0	92.1
80°	88.2	87.2	88.2	89.1	89.1	93.0	99.8	106.6	112.4	112.4	63.0
82.5°	62.0	60.1	62.0	62.0	62.0	64.0	67.8	69.8	73.6	76.6	39.7
85°	38.8	38.8	38.8	39.7	38.8	40.7	41.7	43.6	43.6	41.7	24.2
87.5°	25.2	24.2	25.2	24.2	24.2	23.3	23.3	23.3	22.3	21.3	13.6
90°	23.0	23.0	23.0	23.0	23.0	30.6	40.8	45.9	39.5	26.6	17.0
92.5°	92.0	73.7	92.0	110.3	114.8	162.8	226.6	258.6	227.0	164.0	116.7
95°	320.6	265.3	320.6	376.0	389.8	511.9	674.7	756.1	638.6	403.5	227.2
97.5°	768.3	663.0	768.3	873.6	899.9	977.0	1080.0	1131.4	935.5	543.5	249.6
100°	1107.0	981.5	1107.0	1232.4	1263.8	1258.1	1250.6	1246.8	1029.4	594.5	268.3
102.5°	1440.1	1332.7	1440.1	1547.6	1574.4	1476.1	1345.0	1279.5	1058.9	617.9	287.1
105°	1864.8	1807.1	1864.8	1922.6	1937.0	1716.6	1422.7	1275.8	1062.2	635.2	314.9
107.5°	2143.0	2157.0	2143.0	2129.1	2125.6	1818.1	1408.2	1203.3	1015.0	638.5	356.0
110°	2249.1	2309.3	2249.1	2189.0	2174.0	1830.2	1372.0	1142.8	973.1	633.6	379.0



TEST NUMBER: P935998

CATALOG NUMBER: SQ4-FA-150U-075D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2258.6	2351.0	2258.6	2166.2	2143.1	1791.4	1322.4	1087.9	936.5	633.8	406.8
115°	2198.8	2326.9	2198.8	2070.7	2038.6	1699.7	1247.9	1022.0	894.6	639.6	448.5
117.5°	2071.7	2213.8	2071.7	1929.7	1894.1	1588.3	1180.5	976.7	868.3	651.6	489.0
120°	1969.4	2107.5	1969.4	1831.3	1796.8	1517.4	1144.8	958.5	859.4	661.1	512.5
122.5°	1869.8	2005.9	1869.8	1733.5	1699.5	1447.9	1112.4	944.7	854.9	675.1	540.3
125°	1727.5	1853.0	1727.5	1602.1	1570.7	1357.0	1072.0	929.6	851.0	693.8	576.0
127.5°	1599.7	1705.5	1599.7	1493.9	1467.5	1283.9	1039.3	916.9	848.7	712.5	610.4
130°	1524.3	1622.1	1524.3	1426.6	1402.1	1238.8	1020.9	912.0	850.1	726.3	633.3
132.5°	1455.9	1543.5	1455.9	1368.4	1346.5	1200.3	1005.2	907.8	851.0	737.3	652.1
135°	1362.3	1437.8	1362.3	1286.8	1267.9	1145.5	982.2	900.5	850.1	749.4	673.8
137.5°	1287.2	1348.9	1287.2	1225.4	1210.0	1106.4	968.3	899.3	855.4	767.5	701.7
140°	1235.6	1293.3	1235.6	1177.8	1163.4	1073.9	954.7	895.1	856.3	778.7	720.5
142.5°	1192.9	1242.5	1192.9	1143.2	1130.8	1052.2	947.5	895.1	859.3	787.9	734.3
145°	1128.9	1166.5	1128.9	1091.2	1081.8	1017.5	931.9	889.1	859.4	800.0	755.4
147.5°	1079.7	1110.9	1079.7	1048.5	1040.7	990.1	922.8	889.1	865.3	817.7	782.1
150°	1048.7	1073.9	1048.7	1023.5	1017.2	974.4	917.5	889.1	868.3	826.9	795.9
152.5°	1022.3	1041.3	1022.3	1003.2	998.5	962.0	913.4	889.1	870.4	833.0	805.0
155°	991.9	1004.5	991.9	979.3	976.1	947.1	908.4	889.1	874.8	846.3	825.0
157.5°	967.7	976.7	967.7	958.9	956.7	934.1	904.1	889.1	879.3	859.6	844.9
160°	953.4	958.5	953.4	948.3	947.0	927.7	901.9	889.1	881.3	865.7	854.0
162.5°	944.0	948.8	944.0	939.2	938.0	921.7	899.9	889.1	883.4	872.1	863.7
165°	930.4	935.6	930.4	925.3	924.0	912.4	896.8	889.1	886.5	881.4	877.5
167.5°	920.7	922.9	920.7	918.6	918.0	910.4	900.2	895.1	892.9	888.6	885.4
170°	918.0	918.0	918.0	918.0	918.0	910.4	900.2	895.1	895.0	894.7	894.5
172.5°	910.9	909.0	910.9	912.7	913.2	907.2	899.1	895.1	895.1	895.1	895.1
175°	906.6	906.6	906.6	906.6	906.6	902.7	897.6	895.1	896.2	898.7	900.5
177.5°	902.6	900.5	902.6	904.8	905.3	902.3	898.4	896.3	897.3	899.1	900.5
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



TEST NUMBER: P935998

CATALOG NUMBER: SQ4-FA-150U-075D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1039.0	1033.1	1033.1	1023.4	1019.5	1016.6	1011.7	997.2	993.3	989.4	995.3
5°	1047.7	1037.0	1029.2	1011.7	997.2	991.4	973.0	938.1	914.8	897.4	887.7
7.5°	1049.6	1036.1	1021.4	994.3	959.4	943.9	887.7	823.7	806.3	790.8	781.1
10°	1047.7	1032.1	1011.7	971.0	888.7	861.5	805.3	763.7	753.0	750.1	753.0
12.5°	1040.9	1026.3	998.2	930.3	815.0	796.6	763.7	739.4	737.5	742.4	768.5
15°	1029.2	1015.6	982.7	876.1	774.3	760.8	737.5	728.8	739.4	773.4	851.8
17.5°	1017.5	1002.0	961.3	822.8	743.3	733.6	717.2	734.6	794.7	840.2	866.4
20°	1002.0	983.6	937.1	784.0	721.0	712.3	704.6	783.0	828.6	845.1	859.6
22.5°	983.6	964.3	904.2	756.9	697.8	691.0	695.8	810.2	828.6	840.2	852.8
25°	959.4	942.9	865.4	735.6	679.4	671.6	690.0	807.3	817.9	820.8	846.0
27.5°	937.1	915.8	824.7	716.2	657.1	654.2	694.9	794.7	802.4	805.3	832.5
30°	910.0	878.0	779.2	695.8	633.8	632.9	695.8	779.2	777.2	785.0	812.1
32.5°	881.9	821.8	727.8	670.6	611.5	610.6	689.1	755.9	754.0	764.6	785.0
35°	855.7	778.2	658.0	641.6	583.4	584.4	672.6	728.8	729.8	739.4	752.0
37.5°	828.6	740.4	581.5	609.6	556.3	556.3	650.3	703.6	701.7	704.6	722.0
40°	796.6	681.3	513.7	567.9	531.1	528.2	623.2	676.5	669.7	668.7	692.9
42.5°	762.7	616.4	463.3	512.7	502.0	498.2	590.2	643.5	630.9	633.8	664.8
45°	725.9	598.9	424.5	433.2	472.0	469.1	554.4	605.7	597.0	604.8	636.7
47.5°	689.1	564.1	411.9	359.6	440.0	439.1	514.6	568.9	564.1	571.8	605.7
50°	638.7	525.3	411.0	308.1	404.2	408.0	467.2	533.0	533.0	539.8	575.7
52.5°	573.7	477.8	373.2	279.1	362.5	374.1	425.5	502.0	504.0	510.8	542.7
55°	514.6	428.4	346.0	256.8	313.0	338.2	384.8	470.1	473.9	480.7	509.8
57.5°	460.4	356.7	340.1	230.6	267.4	291.7	348.9	439.1	441.0	446.8	474.9
60°	402.2	257.8	312.0	202.5	227.7	246.1	315.9	402.2	409.0	412.9	437.1
62.5°	336.2	187.0	282.9	183.1	208.3	212.2	288.8	367.3	376.1	379.0	393.5
65°	239.3	157.0	240.3	166.7	188.0	189.0	259.7	331.4	339.2	344.0	354.8
67.5°	161.8	127.9	183.1	151.2	172.5	173.5	231.6	289.7	300.4	304.3	311.0
70°	112.4	85.3	135.7	134.7	155.0	157.0	201.6	251.9	261.6	264.5	268.4
72.5°	82.4	68.8	112.4	121.1	136.6	138.6	170.5	209.3	219.0	221.9	223.8
75°	63.0	72.7	91.1	105.6	116.3	117.2	139.5	170.5	177.3	179.3	180.2
77.5°	50.4	67.8	66.9	85.3	95.0	93.0	109.5	131.8	137.6	137.6	137.6
80°	37.8	53.3	50.4	61.0	69.8	67.8	78.5	94.0	95.9	97.9	96.9
82.5°	28.1	33.9	33.9	38.8	46.5	44.6	52.3	61.0	61.0	61.0	63.0
85°	17.4	19.4	15.5	20.3	26.2	25.2	29.1	32.9	33.9	33.9	32.0
87.5°	10.7	8.7	4.8	7.8	11.6	11.6	13.6	14.5	13.6	13.6	13.6
90°	15.7	10.9	6.0	10.9	15.7	17.0	26.6	39.5	45.9	40.8	30.6
92.5°	106.4	65.2	24.1	65.2	106.4	116.7	164.0	227.0	258.6	226.6	162.8
95°	208.4	133.2	58.0	133.2	208.4	227.2	403.5	638.6	756.1	674.7	511.9
97.5°	233.0	166.7	100.3	166.7	233.0	249.6	543.5	935.5	1131.4	1080.0	977.0
100°	253.3	193.1	132.9	193.1	253.3	268.3	594.5	1029.4	1246.8	1250.6	1258.1
102.5°	273.1	217.0	160.8	217.0	273.1	287.1	617.9	1058.9	1279.5	1345.0	1476.1
105°	303.0	255.5	207.9	255.5	303.0	314.9	635.2	1062.2	1275.8	1422.7	1716.6
107.5°	345.0	300.6	256.3	300.6	345.0	356.0	638.5	1015.0	1203.3	1408.2	1818.1
110°	369.0	328.9	288.9	328.9	369.0	379.0	633.6	973.1	1142.8	1372.0	1830.2



TEST NUMBER: P935998

CATALOG NUMBER: SQ4-FA-150U-075D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	397.3	359.1	320.9	359.1	397.3	406.8	633.8	936.5	1087.9	1322.4	1791.4
115°	439.6	404.5	369.3	404.5	439.6	448.5	639.6	894.6	1022.0	1247.9	1699.7
117.5°	481.0	449.0	417.1	449.0	481.0	489.0	651.6	868.3	976.7	1180.5	1588.3
120°	504.9	474.9	444.8	474.9	504.9	512.5	661.1	859.4	958.5	1144.8	1517.4
122.5°	532.8	502.3	472.0	502.3	532.8	540.3	675.1	854.9	944.7	1112.4	1447.9
125°	569.1	541.4	513.8	541.4	569.1	576.0	693.8	851.0	929.6	1072.0	1357.0
127.5°	603.4	575.5	547.6	575.5	603.4	610.4	712.5	848.7	916.9	1039.3	1283.9
130°	625.8	595.7	565.7	595.7	625.8	633.3	726.3	850.1	912.0	1020.9	1238.8
132.5°	644.6	614.5	584.4	614.5	644.6	652.1	737.3	851.0	907.8	1005.2	1200.3
135°	667.0	639.6	612.2	639.6	667.0	673.8	749.4	850.1	900.5	982.2	1145.5
137.5°	694.9	667.7	640.6	667.7	694.9	701.7	767.5	855.4	899.3	968.3	1106.4
140°	714.2	689.2	664.2	689.2	714.2	720.5	778.7	856.3	895.1	954.7	1073.9
142.5°	728.5	705.4	682.4	705.4	728.5	734.3	787.9	859.3	895.1	947.5	1052.2
145°	750.4	730.3	710.2	730.3	750.4	755.4	800.0	859.4	889.1	931.9	1017.5
147.5°	777.1	757.6	737.9	757.6	777.1	782.1	817.7	865.3	889.1	922.8	990.1
150°	791.5	773.8	756.1	773.8	791.5	795.9	826.9	868.3	889.1	917.5	974.4
152.5°	801.7	788.3	774.8	788.3	801.7	805.0	833.0	870.4	889.1	913.4	962.0
155°	822.5	812.6	802.6	812.6	822.5	825.0	846.3	874.8	889.1	908.4	947.1
157.5°	842.4	832.9	823.2	832.9	842.4	844.9	859.6	879.3	889.1	904.1	934.1
160°	852.1	844.6	837.0	844.6	852.1	854.0	865.7	881.3	889.1	901.9	927.7
162.5°	862.2	856.6	851.0	856.6	862.2	863.7	872.1	883.4	889.1	899.9	921.7
165°	876.3	871.1	866.1	871.1	876.3	877.5	881.4	886.5	889.1	896.8	912.4
167.5°	884.8	882.4	879.9	882.4	884.8	885.4	888.6	892.9	895.1	900.2	910.4
170°	893.9	891.5	889.1	891.5	893.9	894.5	894.7	895.0	895.1	900.2	910.4
172.5°	895.0	894.4	893.9	894.4	895.0	895.1	895.1	895.1	895.1	899.1	907.2
175°	900.5	900.5	900.5	900.5	900.5	900.5	898.7	896.2	895.1	897.6	902.7
177.5°	900.5	900.5	900.5	900.5	900.5	900.5	899.1	897.3	896.3	898.4	902.3
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



TEST NUMBER: P935998
 CATALOG NUMBER: SQ4-FA-150U-075D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	988.5	985.6	989.4	978.8	989.4	985.6	988.5	995.3	989.4	993.3	997.2
5°	867.4	862.5	847.0	834.4	847.0	862.5	867.4	887.7	897.4	914.8	938.1
7.5°	775.3	771.4	767.5	759.8	767.5	771.4	775.3	781.1	790.8	806.3	823.7
10°	754.9	755.9	761.7	760.8	761.7	755.9	754.9	753.0	750.1	753.0	763.7
12.5°	807.3	816.0	848.0	846.0	848.0	816.0	807.3	768.5	742.4	737.5	739.4
15°	867.4	870.3	877.0	878.0	877.0	870.3	867.4	851.8	773.4	739.4	728.8
17.5°	873.2	874.1	879.0	879.0	879.0	874.1	873.2	866.4	840.2	794.7	734.6
20°	868.3	870.3	879.9	881.9	879.9	870.3	868.3	859.6	845.1	828.6	783.0
22.5°	866.4	870.3	878.0	877.0	878.0	870.3	866.4	852.8	840.2	828.6	810.2
25°	856.7	856.7	857.7	858.6	857.7	856.7	856.7	846.0	820.8	817.9	807.3
27.5°	836.3	838.3	844.1	843.1	844.1	838.3	836.3	832.5	805.3	802.4	794.7
30°	817.9	816.0	811.1	807.3	811.1	816.0	817.9	812.1	785.0	777.2	779.2
32.5°	786.9	782.1	777.2	774.3	777.2	782.1	786.9	785.0	764.6	754.0	755.9
35°	750.1	751.1	750.1	747.2	750.1	751.1	750.1	752.0	739.4	729.8	728.8
37.5°	723.9	725.9	724.9	721.0	724.9	725.9	723.9	722.0	704.6	701.7	703.6
40°	696.8	697.8	696.8	693.9	696.8	697.8	696.8	692.9	668.7	669.7	676.5
42.5°	670.6	669.7	666.8	664.8	666.8	669.7	670.6	664.8	633.8	630.9	643.5
45°	640.6	641.6	635.8	632.9	635.8	641.6	640.6	636.7	604.8	597.0	605.7
47.5°	610.6	610.6	605.7	602.8	605.7	610.6	610.6	605.7	571.8	564.1	568.9
50°	578.6	577.6	570.8	569.9	570.8	577.6	578.6	575.7	539.8	533.0	533.0
52.5°	541.8	541.8	542.7	544.7	542.7	541.8	541.8	542.7	510.8	504.0	502.0
55°	509.8	510.8	517.5	519.5	517.5	510.8	509.8	509.8	480.7	473.9	470.1
57.5°	476.8	476.8	481.7	481.7	481.7	476.8	476.8	474.9	446.8	441.0	439.1
60°	439.1	441.0	444.9	443.9	444.9	441.0	439.1	437.1	412.9	409.0	402.2
62.5°	399.3	401.3	402.2	400.3	402.2	401.3	399.3	393.5	379.0	376.1	367.3
65°	357.7	359.6	360.6	358.6	360.6	359.6	357.7	354.8	344.0	339.2	331.4
67.5°	314.9	314.0	313.0	316.9	313.0	314.0	314.9	311.0	304.3	300.4	289.7
70°	271.3	271.3	270.4	272.3	270.4	271.3	271.3	268.4	264.5	261.6	251.9
72.5°	224.8	223.8	227.7	224.8	227.7	223.8	224.8	223.8	221.9	219.0	209.3
75°	179.3	181.2	179.3	182.2	179.3	181.2	179.3	180.2	179.3	177.3	170.5
77.5°	136.6	138.6	136.6	136.6	136.6	138.6	136.6	137.6	137.6	137.6	131.8
80°	96.9	95.9	95.9	95.0	95.9	95.9	96.9	96.9	97.9	95.9	94.0
82.5°	62.0	61.0	61.0	63.0	61.0	61.0	62.0	63.0	61.0	61.0	61.0
85°	33.9	34.9	32.9	32.9	32.9	34.9	33.9	32.0	33.9	33.9	32.9
87.5°	12.6	11.6	11.6	11.6	11.6	11.6	12.6	13.6	13.6	13.6	14.5
90°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	30.6	40.8	45.9	39.5
92.5°	114.8	110.3	92.0	73.7	92.0	110.3	114.8	162.8	226.6	258.6	227.0
95°	389.8	376.0	320.6	265.3	320.6	376.0	389.8	511.9	674.7	756.1	638.6
97.5°	899.9	873.6	768.3	663.0	768.3	873.6	899.9	977.0	1080.0	1131.4	935.5
100°	1263.8	1232.4	1107.0	981.5	1107.0	1232.4	1263.8	1258.1	1250.6	1246.8	1029.4
102.5°	1574.4	1547.6	1440.1	1332.7	1440.1	1547.6	1574.4	1476.1	1345.0	1279.5	1058.9
105°	1937.0	1922.6	1864.8	1807.1	1864.8	1922.6	1937.0	1716.6	1422.7	1275.8	1062.2
107.5°	2125.6	2129.1	2143.0	2157.0	2143.0	2129.1	2125.6	1818.1	1408.2	1203.3	1015.0
110°	2174.0	2189.0	2249.1	2309.3	2249.1	2189.0	2174.0	1830.2	1372.0	1142.8	973.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2143.1	2166.2	2258.6	2351.0	2258.6	2166.2	2143.1	1791.4	1322.4	1087.9	936.5
115°	2038.6	2070.7	2198.8	2326.9	2198.8	2070.7	2038.6	1699.7	1247.9	1022.0	894.6
117.5°	1894.1	1929.7	2071.7	2213.8	2071.7	1929.7	1894.1	1588.3	1180.5	976.7	868.3
120°	1796.8	1831.3	1969.4	2107.5	1969.4	1831.3	1796.8	1517.4	1144.8	958.5	859.4
122.5°	1699.5	1733.5	1869.8	2005.9	1869.8	1733.5	1699.5	1447.9	1112.4	944.7	854.9
125°	1570.7	1602.1	1727.5	1853.0	1727.5	1602.1	1570.7	1357.0	1072.0	929.6	851.0
127.5°	1467.5	1493.9	1599.7	1705.5	1599.7	1493.9	1467.5	1283.9	1039.3	916.9	848.7
130°	1402.1	1426.6	1524.3	1622.1	1524.3	1426.6	1402.1	1238.8	1020.9	912.0	850.1
132.5°	1346.5	1368.4	1455.9	1543.5	1455.9	1368.4	1346.5	1200.3	1005.2	907.8	851.0
135°	1267.9	1286.8	1362.3	1437.8	1362.3	1286.8	1267.9	1145.5	982.2	900.5	850.1
137.5°	1210.0	1225.4	1287.2	1348.9	1287.2	1225.4	1210.0	1106.4	968.3	899.3	855.4
140°	1163.4	1177.8	1235.6	1293.3	1235.6	1177.8	1163.4	1073.9	954.7	895.1	856.3
142.5°	1130.8	1143.2	1192.9	1242.5	1192.9	1143.2	1130.8	1052.2	947.5	895.1	859.3
145°	1081.8	1091.2	1128.9	1166.5	1128.9	1091.2	1081.8	1017.5	931.9	889.1	859.4
147.5°	1040.7	1048.5	1079.7	1110.9	1079.7	1048.5	1040.7	990.1	922.8	889.1	865.3
150°	1017.2	1023.5	1048.7	1073.9	1048.7	1023.5	1017.2	974.4	917.5	889.1	868.3
152.5°	998.5	1003.2	1022.3	1041.3	1022.3	1003.2	998.5	962.0	913.4	889.1	870.4
155°	976.1	979.3	991.9	1004.5	991.9	979.3	976.1	947.1	908.4	889.1	874.8
157.5°	956.7	958.9	967.7	976.7	967.7	958.9	956.7	934.1	904.1	889.1	879.3
160°	947.0	948.3	953.4	958.5	953.4	948.3	947.0	927.7	901.9	889.1	881.3
162.5°	938.0	939.2	944.0	948.8	944.0	939.2	938.0	921.7	899.9	889.1	883.4
165°	924.0	925.3	930.4	935.6	930.4	925.3	924.0	912.4	896.8	889.1	886.5
167.5°	918.0	918.6	920.7	922.9	920.7	918.6	918.0	910.4	900.2	895.1	892.9
170°	918.0	918.0	918.0	918.0	918.0	918.0	918.0	910.4	900.2	895.1	895.0
172.5°	913.2	912.7	910.9	909.0	910.9	912.7	913.2	907.2	899.1	895.1	895.1
175°	906.6	906.6	906.6	906.6	906.6	906.6	906.6	902.7	897.6	895.1	896.2
177.5°	905.3	904.8	902.6	900.5	902.6	904.8	905.3	902.3	898.4	896.3	897.3
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1011.7	1016.6	1019.5	1023.4	1033.1
5°	973.0	991.4	997.2	1011.7	1029.2
7.5°	887.7	943.9	959.4	994.3	1021.4
10°	805.3	861.5	888.7	971.0	1011.7
12.5°	763.7	796.6	815.0	930.3	998.2
15°	737.5	760.8	774.3	876.1	982.7
17.5°	717.2	733.6	743.3	822.8	961.3
20°	704.6	712.3	721.0	784.0	937.1
22.5°	695.8	691.0	697.8	756.9	904.2
25°	690.0	671.6	679.4	735.6	865.4
27.5°	694.9	654.2	657.1	716.2	824.7
30°	695.8	632.9	633.8	695.8	779.2
32.5°	689.1	610.6	611.5	670.6	727.8
35°	672.6	584.4	583.4	641.6	658.0
37.5°	650.3	556.3	556.3	609.6	581.5
40°	623.2	528.2	531.1	567.9	513.7
42.5°	590.2	498.2	502.0	512.7	463.3
45°	554.4	469.1	472.0	433.2	424.5
47.5°	514.6	439.1	440.0	359.6	411.9
50°	467.2	408.0	404.2	308.1	411.0
52.5°	425.5	374.1	362.5	279.1	373.2
55°	384.8	338.2	313.0	256.8	346.0
57.5°	348.9	291.7	267.4	230.6	340.1
60°	315.9	246.1	227.7	202.5	312.0
62.5°	288.8	212.2	208.3	183.1	282.9
65°	259.7	189.0	188.0	166.7	240.3
67.5°	231.6	173.5	172.5	151.2	183.1
70°	201.6	157.0	155.0	134.7	135.7
72.5°	170.5	138.6	136.6	121.1	112.4
75°	139.5	117.2	116.3	105.6	91.1
77.5°	109.5	93.0	95.0	85.3	66.9
80°	78.5	67.8	69.8	61.0	50.4
82.5°	52.3	44.6	46.5	38.8	33.9
85°	29.1	25.2	26.2	20.3	15.5
87.5°	13.6	11.6	11.6	7.8	4.8
90°	26.6	17.0	15.7	10.9	6.0
92.5°	164.0	116.7	106.4	65.2	24.1
95°	403.5	227.2	208.4	133.2	58.0
97.5°	543.5	249.6	233.0	166.7	100.3
100°	594.5	268.3	253.3	193.1	132.9
102.5°	617.9	287.1	273.1	217.0	160.8
105°	635.2	314.9	303.0	255.5	207.9
107.5°	638.5	356.0	345.0	300.6	256.3
110°	633.6	379.0	369.0	328.9	288.9



TEST NUMBER: P935998

CATALOG NUMBER: SQ4-FA-150U-075D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	633.8	406.8	397.3	359.1	320.9
115°	639.6	448.5	439.6	404.5	369.3
117.5°	651.6	489.0	481.0	449.0	417.1
120°	661.1	512.5	504.9	474.9	444.8
122.5°	675.1	540.3	532.8	502.3	472.0
125°	693.8	576.0	569.1	541.4	513.8
127.5°	712.5	610.4	603.4	575.5	547.6
130°	726.3	633.3	625.8	595.7	565.7
132.5°	737.3	652.1	644.6	614.5	584.4
135°	749.4	673.8	667.0	639.6	612.2
137.5°	767.5	701.7	694.9	667.7	640.6
140°	778.7	720.5	714.2	689.2	664.2
142.5°	787.9	734.3	728.5	705.4	682.4
145°	800.0	755.4	750.4	730.3	710.2
147.5°	817.7	782.1	777.1	757.6	737.9
150°	826.9	795.9	791.5	773.8	756.1
152.5°	833.0	805.0	801.7	788.3	774.8
155°	846.3	825.0	822.5	812.6	802.6
157.5°	859.6	844.9	842.4	832.9	823.2
160°	865.7	854.0	852.1	844.6	837.0
162.5°	872.1	863.7	862.2	856.6	851.0
165°	881.4	877.5	876.3	871.1	866.1
167.5°	888.6	885.4	884.8	882.4	879.9
170°	894.7	894.5	893.9	891.5	889.1
172.5°	895.1	895.1	895.0	894.4	893.9
175°	898.7	900.5	900.5	900.5	900.5
177.5°	899.1	900.5	900.5	900.5	900.5
180°	900.5	900.5	900.5	900.5	900.5



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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	10.58	11.29	11.68	12.39	13.91	13.38	14.09	14.48	15.19	16.70
	3H	11.04	11.68	12.15	12.79	14.32	14.70	15.34	15.81	16.45	17.98
	4H	11.23	11.84	12.35	12.94	14.48	15.13	15.74	16.25	16.85	18.38
	6H	11.34	11.90	12.47	13.01	14.56	15.40	15.96	16.53	17.07	18.62
	8H	11.34	11.87	12.47	12.99	14.54	15.47	16.00	16.60	17.12	18.67
	12H	11.30	11.81	12.44	12.93	14.49	15.49	16.00	16.63	17.12	18.69
4H	2H	11.58	12.19	12.71	13.30	14.84	13.77	14.38	14.90	15.48	17.02
	3H	12.60	13.10	13.73	14.24	15.79	15.25	15.76	16.38	16.89	18.44
	4H	12.87	13.33	14.01	14.46	16.03	15.76	16.23	16.90	17.35	18.92
	6H	12.98	13.38	14.13	14.53	16.09	16.11	16.51	17.26	17.66	19.22
	8H	12.99	13.36	14.13	14.50	16.08	16.21	16.58	17.36	17.72	19.30
	12H	12.95	13.28	14.11	14.43	16.02	16.26	16.59	17.42	17.74	19.33
8H	4H	13.30	13.68	14.45	14.81	16.39	15.88	16.25	17.02	17.39	18.97
	6H	13.56	13.87	14.72	15.05	16.62	16.30	16.61	17.47	17.79	19.36
	8H	13.60	13.87	14.77	15.03	16.62	16.45	16.71	17.62	17.87	19.47
	12H	13.58	13.81	14.75	14.97	16.60	16.53	16.77	17.71	17.92	19.55
12H	4H	13.30	13.64	14.46	14.79	16.37	15.84	16.17	17.00	17.32	18.91
	6H	13.62	13.89	14.79	15.04	16.64	16.30	16.56	17.47	17.72	19.32
	8H	13.68	13.91	14.85	15.07	16.70	16.45	16.68	17.62	17.84	19.47