

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: P935918

Luminaire Tested: SQ4-FA-150U-075D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935918
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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

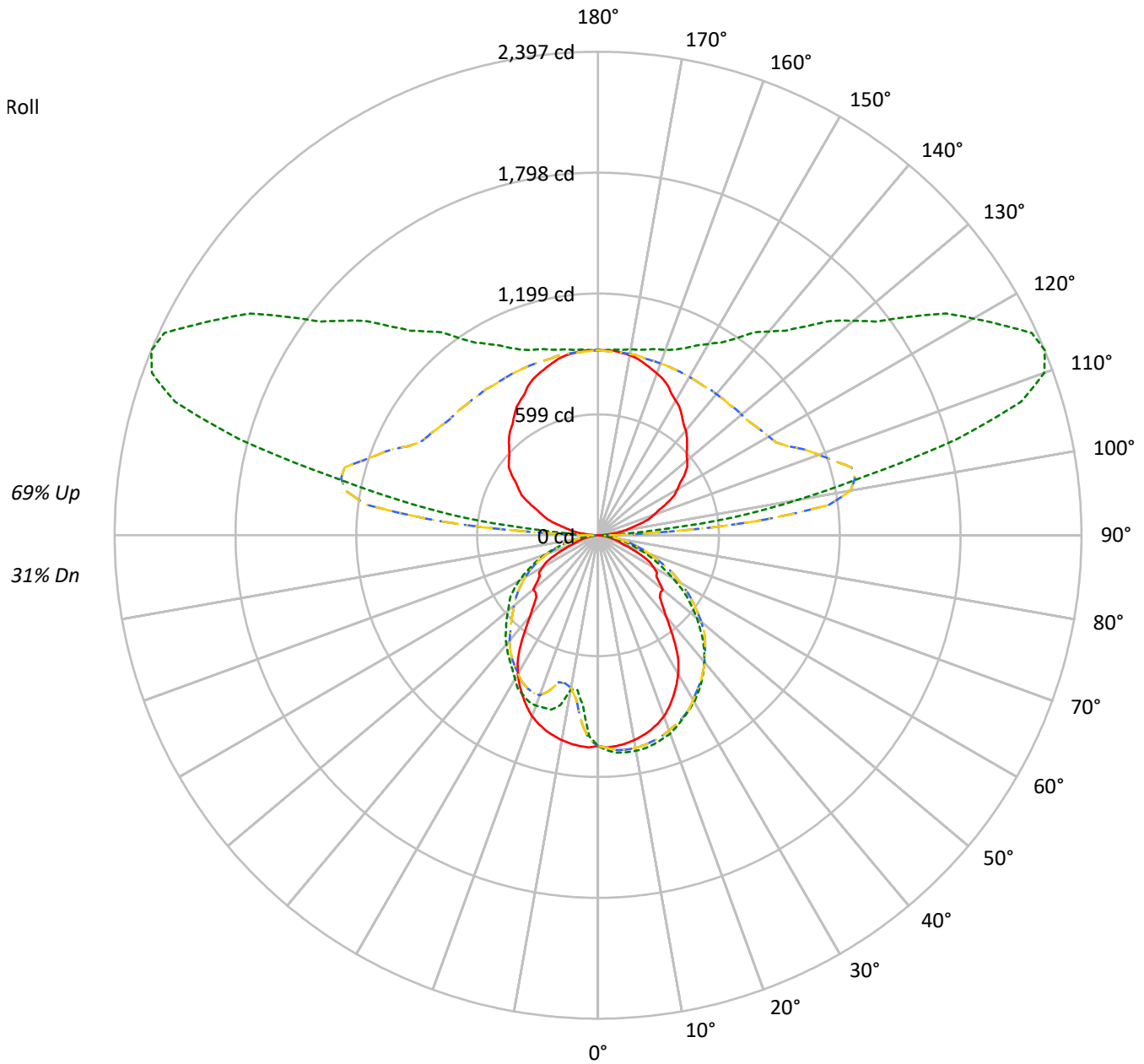
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8663.7 lumens
Efficiency: N/A
Efficacy: 136.2 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°	9691	9691	9691	9691
5°	9753	9784	9753	7693
10°	9677	9637	9677	6890
15°	9561	9429	9561	7872
20°	9350	9181	9350	7889
25°	8930	8820	8930	7722
30°	8392	8520	8392	7355
35°	7470	8142	7470	6951
40°	6213	7696	6213	6647
45°	5541	7174	5541	6297
50°	5874	6551	5874	5944
55°	5511	5881	5511	5742
60°	5658	4995	5658	5259
65°	5106	4128	5106	4616
70°	3511	3289	3511	3867
75°	3046	2432	3046	2911
80°	2406	1607	2406	1750
85°	1308	851	1308	724

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8509 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.1
10°-20°	267.7	3.1
20°-30°	413.8	4.8
30°-40°	494.0	5.7
40°-50°	496.9	5.7
50°-60°	432.4	5.0
60°-70°	306.5	3.5
70°-80°	162.2	1.9
80°-90°	43.9	0.5
90°-100°	447.6	5.2
100°-110°	1176.7	13.6
110°-120°	1220.1	14.1
120°-130°	978.7	11.3
130°-140°	767.9	8.9
140°-150°	589.4	6.8
150°-160°	424.5	4.9
160°-170°	259.7	3.0
170°-180°	87.7	1.0
0°-30°	775.8	9.0
0°-40°	1269.7	14.7
0°-60°	2199.0	25.4
0°-90°	2711.6	31.3
90°-120°	2844.3	32.8
90°-150°	5180.3	59.8
90°-180°	5952.0	68.7
0°-180°	8663.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1044	1044	1044	1044	1044	
5°	1049	1082	1049	851	1049	100
15°	1002	1072	1002	895	1002	282
25°	882	1000	882	876	882	405
35°	671	892	671	762	671	415
45°	433	735	433	645	433	347
55°	353	542	353	530	353	324
65°	245	327	245	366	245	234
75°	93	155	93	186	93	98
85°	16	40	16	34	16	21
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°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1053.3	1053.3	1059.3	1061.3	1061.3	1058.3	1055.4	1058.3	1067.2	1070.2	1069.2
5°	1049.4	1057.4	1068.2	1070.2	1072.2	1071.2	1069.2	1071.2	1081.1	1083.0	1084.0
7.5°	1041.5	1056.4	1070.2	1073.2	1076.1	1073.2	1072.2	1074.2	1084.0	1086.0	1086.0
10°	1031.6	1052.3	1068.2	1070.2	1073.2	1070.2	1070.2	1074.2	1084.0	1086.0	1087.0
12.5°	1017.7	1046.4	1061.3	1063.3	1067.2	1066.2	1065.3	1069.2	1079.1	1081.1	1081.1
15°	1001.9	1035.5	1049.4	1051.3	1058.3	1056.4	1056.4	1060.3	1071.2	1074.2	1073.2
17.5°	980.2	1021.7	1037.5	1040.5	1045.4	1044.4	1045.4	1049.4	1059.3	1061.3	1062.3
20°	955.5	1002.9	1021.7	1024.7	1029.6	1029.6	1029.6	1034.5	1044.4	1048.4	1048.4
22.5°	921.9	983.2	1002.9	1004.9	1010.8	1010.8	1012.8	1019.7	1028.6	1029.6	1029.6
25°	882.4	961.4	978.2	984.1	990.1	993.0	996.0	1000.0	1002.9	1001.9	1002.9
27.5°	840.9	933.8	955.5	959.4	967.4	970.3	974.3	975.3	976.2	979.2	977.2
30°	794.5	895.2	927.8	931.8	944.6	946.6	942.7	944.6	949.6	951.5	953.5
32.5°	742.1	837.9	899.2	908.1	919.9	914.0	913.0	916.0	923.9	923.9	925.9
35°	671.0	793.5	872.5	880.4	889.3	882.4	886.3	887.3	892.3	895.2	894.2
37.5°	592.9	754.9	844.8	850.8	857.7	848.8	854.7	857.7	861.6	859.7	859.7
40°	523.7	694.7	812.2	816.2	822.1	815.2	821.1	823.1	825.1	823.1	822.1
42.5°	472.4	628.5	777.7	782.6	778.6	783.6	785.6	789.5	786.5	782.6	782.6
45°	432.8	610.7	740.1	746.0	740.1	748.0	751.0	751.0	742.1	740.1	739.1
47.5°	420.0	575.1	702.6	702.6	699.6	709.5	714.4	707.5	698.6	695.7	695.7
50°	419.0	535.6	651.2	647.2	661.1	672.9	668.0	661.1	654.2	643.3	643.3
52.5°	380.5	487.2	585.0	599.8	621.6	628.5	620.6	613.6	601.8	596.9	592.9
55°	352.8	436.8	524.7	554.4	577.1	586.0	571.2	564.2	546.5	543.5	541.5
57.5°	346.8	363.7	469.4	506.9	534.6	533.6	524.7	511.9	497.1	494.1	493.1
60°	318.1	262.8	410.1	454.6	483.2	480.3	472.4	460.5	446.7	444.7	442.7
62.5°	288.5	190.7	342.8	393.3	433.8	432.8	425.9	408.1	398.3	393.3	389.4
65°	245.0	160.1	244.0	327.0	385.4	387.4	372.6	359.7	348.8	342.8	341.8
67.5°	186.7	130.4	165.0	272.7	338.9	336.9	318.1	312.2	298.4	295.4	289.5
70°	138.3	86.9	114.6	221.3	293.4	288.5	273.7	266.8	253.9	247.0	243.0
72.5°	114.6	70.1	84.0	171.9	247.0	241.1	228.2	220.3	209.5	203.5	199.6
75°	92.9	74.1	64.2	127.5	200.6	196.6	184.8	176.9	168.0	160.1	161.0
77.5°	68.2	69.2	51.4	93.9	159.1	153.1	146.2	136.3	132.4	124.5	124.5
80°	51.4	54.3	38.5	64.2	114.6	114.6	108.7	101.8	94.8	90.9	90.9
82.5°	34.6	34.6	28.7	40.5	78.1	75.1	71.1	69.2	65.2	63.2	63.2
85°	15.8	19.8	17.8	24.7	42.5	44.5	44.5	42.5	41.5	39.5	40.5
87.5°	4.9	8.9	10.9	13.8	21.7	22.7	23.7	23.7	23.7	24.7	24.7
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°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1071.2	1068.2	1071.2	1069.2	1070.2	1067.2	1058.3	1055.4	1058.3	1061.3	1061.3
5°	1084.0	1082.1	1084.0	1084.0	1083.0	1081.1	1071.2	1069.2	1071.2	1072.2	1070.2
7.5°	1088.0	1085.0	1088.0	1086.0	1086.0	1084.0	1074.2	1072.2	1073.2	1076.1	1073.2
10°	1088.0	1085.0	1088.0	1087.0	1086.0	1084.0	1074.2	1070.2	1070.2	1073.2	1070.2
12.5°	1083.0	1081.1	1083.0	1081.1	1081.1	1079.1	1069.2	1065.3	1066.2	1067.2	1063.3
15°	1075.1	1072.2	1075.1	1073.2	1074.2	1071.2	1060.3	1056.4	1056.4	1058.3	1051.3
17.5°	1063.3	1059.3	1063.3	1062.3	1061.3	1059.3	1049.4	1045.4	1044.4	1045.4	1040.5
20°	1049.4	1046.4	1049.4	1048.4	1048.4	1044.4	1034.5	1029.6	1029.6	1029.6	1024.7
22.5°	1027.6	1024.7	1027.6	1029.6	1029.6	1028.6	1019.7	1012.8	1010.8	1010.8	1004.9
25°	1002.9	1000.0	1002.9	1002.9	1001.9	1002.9	1000.0	996.0	993.0	990.1	984.1
27.5°	979.2	977.2	979.2	977.2	979.2	976.2	975.3	974.3	970.3	967.4	959.4
30°	955.5	953.5	955.5	953.5	951.5	949.6	944.6	942.7	946.6	944.6	931.8
32.5°	925.9	923.9	925.9	925.9	923.9	923.9	916.0	913.0	914.0	919.9	908.1
35°	895.2	892.3	895.2	894.2	895.2	892.3	887.3	886.3	882.4	889.3	880.4
37.5°	859.7	856.7	859.7	859.7	859.7	861.6	857.7	854.7	848.8	857.7	850.8
40°	823.1	819.2	823.1	822.1	823.1	825.1	823.1	821.1	815.2	822.1	816.2
42.5°	781.6	780.6	781.6	782.6	782.6	786.5	789.5	785.6	783.6	778.6	782.6
45°	737.1	735.2	737.1	739.1	740.1	742.1	751.0	751.0	748.0	740.1	746.0
47.5°	689.7	684.8	689.7	695.7	695.7	698.6	707.5	714.4	709.5	699.6	702.6
50°	639.3	640.3	639.3	643.3	643.3	654.2	661.1	668.0	672.9	661.1	647.2
52.5°	589.9	588.9	589.9	592.9	596.9	601.8	613.6	620.6	628.5	621.6	599.8
55°	540.5	542.5	540.5	541.5	543.5	546.5	564.2	571.2	586.0	577.1	554.4
57.5°	491.1	488.2	491.1	493.1	494.1	497.1	511.9	524.7	533.6	534.6	506.9
60°	433.8	429.9	433.8	442.7	444.7	446.7	460.5	472.4	480.3	483.2	454.6
62.5°	383.4	376.5	383.4	389.4	393.3	398.3	408.1	425.9	432.8	433.8	393.3
65°	330.0	327.0	330.0	341.8	342.8	348.8	359.7	372.6	387.4	385.4	327.0
67.5°	281.6	281.6	281.6	289.5	295.4	298.4	312.2	318.1	336.9	338.9	272.7
70°	237.1	236.1	237.1	243.0	247.0	253.9	266.8	273.7	288.5	293.4	221.3
72.5°	194.6	193.6	194.6	199.6	203.5	209.5	220.3	228.2	241.1	247.0	171.9
75°	157.1	155.1	157.1	161.0	160.1	168.0	176.9	184.8	196.6	200.6	127.5
77.5°	120.5	120.5	120.5	124.5	124.5	132.4	136.3	146.2	153.1	159.1	93.9
80°	89.9	88.9	89.9	90.9	90.9	94.8	101.8	108.7	114.6	114.6	64.2
82.5°	63.2	61.3	63.2	63.2	63.2	65.2	69.2	71.1	75.1	78.1	40.5
85°	39.5	39.5	39.5	40.5	39.5	41.5	42.5	44.5	44.5	42.5	24.7
87.5°	25.7	24.7	25.7	24.7	24.7	23.7	23.7	23.7	22.7	21.7	13.8
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: P935918

CATALOG NUMBER: SQ4-FA-150U-075D-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: P935918
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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1059.3	1053.3	1053.3	1043.4	1039.5	1036.5	1031.6	1016.8	1012.8	1008.8	1014.8
5°	1068.2	1057.4	1049.4	1031.6	1016.8	1010.8	992.1	956.5	932.8	915.0	905.1
7.5°	1070.2	1056.4	1041.5	1013.8	978.2	962.4	905.1	839.9	822.1	806.3	796.4
10°	1068.2	1052.3	1031.6	990.1	906.1	878.4	821.1	778.6	767.8	764.8	767.8
12.5°	1061.3	1046.4	1017.7	948.6	831.0	812.2	778.6	753.9	752.0	756.9	783.6
15°	1049.4	1035.5	1001.9	893.3	789.5	775.7	752.0	743.1	753.9	788.5	868.6
17.5°	1037.5	1021.7	980.2	838.9	757.9	748.0	731.2	749.0	810.3	856.7	883.4
20°	1021.7	1002.9	955.5	799.4	735.2	726.3	718.4	798.4	844.8	861.6	876.5
22.5°	1002.9	983.2	921.9	771.7	711.5	704.5	709.5	826.1	844.8	856.7	869.5
25°	978.2	961.4	882.4	750.0	692.7	684.8	703.6	823.1	834.0	836.9	862.6
27.5°	955.5	933.8	840.9	730.2	670.0	667.0	708.5	810.3	818.2	821.1	848.8
30°	927.8	895.2	794.5	709.5	646.3	645.3	709.5	794.5	792.5	800.4	828.0
32.5°	899.2	837.9	742.1	683.8	623.5	622.5	702.6	770.7	768.8	779.6	800.4
35°	872.5	793.5	671.0	654.2	594.9	595.9	685.8	743.1	744.1	753.9	766.8
37.5°	844.8	754.9	592.9	621.6	567.2	567.2	663.0	717.4	715.4	718.4	736.2
40°	812.2	694.7	523.7	579.1	541.5	538.6	635.4	689.7	682.8	681.8	706.5
42.5°	777.7	628.5	472.4	522.8	511.9	507.9	601.8	656.1	643.3	646.3	677.9
45°	740.1	610.7	432.8	441.7	481.3	478.3	565.2	617.6	608.7	616.6	649.2
47.5°	702.6	575.1	420.0	366.6	448.7	447.7	524.7	580.1	575.1	583.0	617.6
50°	651.2	535.6	419.0	314.2	412.1	416.0	476.3	543.5	543.5	550.4	587.0
52.5°	585.0	487.2	380.5	284.5	369.6	381.5	433.8	511.9	513.9	520.8	553.4
55°	524.7	436.8	352.8	261.8	319.1	344.8	392.3	479.3	483.2	490.1	519.8
57.5°	469.4	363.7	346.8	235.1	272.7	297.4	355.8	447.7	449.6	455.6	484.2
60°	410.1	262.8	318.1	206.5	232.2	251.0	322.1	410.1	417.0	421.0	445.7
62.5°	342.8	190.7	288.5	186.7	212.4	216.4	294.4	374.6	383.4	386.4	401.2
65°	244.0	160.1	245.0	169.9	191.7	192.7	264.8	337.9	345.8	350.7	361.7
67.5°	165.0	130.4	186.7	154.1	175.9	176.9	236.1	295.4	306.3	310.2	317.1
70°	114.6	86.9	138.3	137.3	158.1	160.1	205.5	256.9	266.8	269.7	273.7
72.5°	84.0	70.1	114.6	123.5	139.3	141.3	173.9	213.4	223.3	226.3	228.2
75°	64.2	74.1	92.9	107.7	118.6	119.5	142.3	173.9	180.8	182.8	183.8
77.5°	51.4	69.2	68.2	86.9	96.8	94.8	111.6	134.4	140.3	140.3	140.3
80°	38.5	54.3	51.4	62.2	71.1	69.2	80.0	95.8	97.8	99.8	98.8
82.5°	28.7	34.6	34.6	39.5	47.4	45.4	53.4	62.2	62.2	62.2	64.2
85°	17.8	19.8	15.8	20.7	26.7	25.7	29.6	33.6	34.6	34.6	32.6
87.5°	10.9	8.9	4.9	7.9	11.9	11.9	13.8	14.8	13.8	13.8	13.8
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: P935918

CATALOG NUMBER: SQ4-FA-150U-075D-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: P935918
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1007.9	1004.9	1008.8	998.0	1008.8	1004.9	1007.9	1014.8	1008.8	1012.8	1016.8
5°	884.4	879.4	863.6	850.8	863.6	879.4	884.4	905.1	915.0	932.8	956.5
7.5°	790.5	786.5	782.6	774.7	782.6	786.5	790.5	796.4	806.3	822.1	839.9
10°	769.8	770.7	776.7	775.7	776.7	770.7	769.8	767.8	764.8	767.8	778.6
12.5°	823.1	832.0	864.6	862.6	864.6	832.0	823.1	783.6	756.9	752.0	753.9
15°	884.4	887.3	894.2	895.2	894.2	887.3	884.4	868.6	788.5	753.9	743.1
17.5°	890.3	891.3	896.2	896.2	896.2	891.3	890.3	883.4	856.7	810.3	749.0
20°	885.3	887.3	897.2	899.2	897.2	887.3	885.3	876.5	861.6	844.8	798.4
22.5°	883.4	887.3	895.2	894.2	895.2	887.3	883.4	869.5	856.7	844.8	826.1
25°	873.5	873.5	874.5	875.5	874.5	873.5	873.5	862.6	836.9	834.0	823.1
27.5°	852.7	854.7	860.6	859.7	860.6	854.7	852.7	848.8	821.1	818.2	810.3
30°	834.0	832.0	827.1	823.1	827.1	832.0	834.0	828.0	800.4	792.5	794.5
32.5°	802.4	797.4	792.5	789.5	792.5	797.4	802.4	800.4	779.6	768.8	770.7
35°	764.8	765.8	764.8	761.8	764.8	765.8	764.8	766.8	753.9	744.1	743.1
37.5°	738.1	740.1	739.1	735.2	739.1	740.1	738.1	736.2	718.4	715.4	717.4
40°	710.5	711.5	710.5	707.5	710.5	711.5	710.5	706.5	681.8	682.8	689.7
42.5°	683.8	682.8	679.8	677.9	679.8	682.8	683.8	677.9	646.3	643.3	656.1
45°	653.2	654.2	648.2	645.3	648.2	654.2	653.2	649.2	616.6	608.7	617.6
47.5°	622.5	622.5	617.6	614.6	617.6	622.5	622.5	617.6	583.0	575.1	580.1
50°	589.9	588.9	582.0	581.0	582.0	588.9	589.9	587.0	550.4	543.5	543.5
52.5°	552.4	552.4	553.4	555.4	553.4	552.4	552.4	553.4	520.8	513.9	511.9
55°	519.8	520.8	527.7	529.7	527.7	520.8	519.8	519.8	490.1	483.2	479.3
57.5°	486.2	486.2	491.1	491.1	491.1	486.2	486.2	484.2	455.6	449.6	447.7
60°	447.7	449.6	453.6	452.6	453.6	449.6	447.7	445.7	421.0	417.0	410.1
62.5°	407.2	409.1	410.1	408.1	410.1	409.1	407.2	401.2	386.4	383.4	374.6
65°	364.7	366.6	367.6	365.7	367.6	366.6	364.7	361.7	350.7	345.8	337.9
67.5°	321.1	320.1	319.1	323.1	319.1	320.1	321.1	317.1	310.2	306.3	295.4
70°	276.6	276.6	275.7	277.6	275.7	276.6	276.6	273.7	269.7	266.8	256.9
72.5°	229.2	228.2	232.2	229.2	232.2	228.2	229.2	228.2	226.3	223.3	213.4
75°	182.8	184.8	182.8	185.7	182.8	184.8	182.8	183.8	182.8	180.8	173.9
77.5°	139.3	141.3	139.3	139.3	139.3	141.3	139.3	140.3	140.3	140.3	134.4
80°	98.8	97.8	97.8	96.8	97.8	97.8	98.8	98.8	99.8	97.8	95.8
82.5°	63.2	62.2	62.2	64.2	62.2	62.2	63.2	64.2	62.2	62.2	62.2
85°	34.6	35.6	33.6	33.6	33.6	35.6	34.6	32.6	34.6	34.6	33.6
87.5°	12.8	11.9	11.9	11.9	11.9	11.9	12.8	13.8	13.8	13.8	14.8
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°	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1031.6	1036.5	1039.5	1043.4	1053.3
5°	992.1	1010.8	1016.8	1031.6	1049.4
7.5°	905.1	962.4	978.2	1013.8	1041.5
10°	821.1	878.4	906.1	990.1	1031.6
12.5°	778.6	812.2	831.0	948.6	1017.7
15°	752.0	775.7	789.5	893.3	1001.9
17.5°	731.2	748.0	757.9	838.9	980.2
20°	718.4	726.3	735.2	799.4	955.5
22.5°	709.5	704.5	711.5	771.7	921.9
25°	703.6	684.8	692.7	750.0	882.4
27.5°	708.5	667.0	670.0	730.2	840.9
30°	709.5	645.3	646.3	709.5	794.5
32.5°	702.6	622.5	623.5	683.8	742.1
35°	685.8	595.9	594.9	654.2	671.0
37.5°	663.0	567.2	567.2	621.6	592.9
40°	635.4	538.6	541.5	579.1	523.7
42.5°	601.8	507.9	511.9	522.8	472.4
45°	565.2	478.3	481.3	441.7	432.8
47.5°	524.7	447.7	448.7	366.6	420.0
50°	476.3	416.0	412.1	314.2	419.0
52.5°	433.8	381.5	369.6	284.5	380.5
55°	392.3	344.8	319.1	261.8	352.8
57.5°	355.8	297.4	272.7	235.1	346.8
60°	322.1	251.0	232.2	206.5	318.1
62.5°	294.4	216.4	212.4	186.7	288.5
65°	264.8	192.7	191.7	169.9	245.0
67.5°	236.1	176.9	175.9	154.1	186.7
70°	205.5	160.1	158.1	137.3	138.3
72.5°	173.9	141.3	139.3	123.5	114.6
75°	142.3	119.5	118.6	107.7	92.9
77.5°	111.6	94.8	96.8	86.9	68.2
80°	80.0	69.2	71.1	62.2	51.4
82.5°	53.4	45.4	47.4	39.5	34.6
85°	29.6	25.7	26.7	20.7	15.8
87.5°	13.8	11.9	11.9	7.9	4.9
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



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CATALOG NUMBER: SQ4-FA-150U-075D-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



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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	10.65	11.36	11.75	12.46	13.98	13.44	14.16	14.55	15.26	16.77
	3H	11.11	11.75	12.22	12.86	14.39	14.77	15.41	15.88	16.51	18.05
	4H	11.30	11.90	12.42	13.01	14.55	15.20	15.80	16.32	16.91	18.45
	6H	11.41	11.97	12.54	13.08	14.63	15.47	16.03	16.60	17.14	18.69
	8H	11.40	11.94	12.54	13.06	14.60	15.53	16.06	16.67	17.19	18.73
	12H	11.37	11.87	12.51	13.00	14.56	15.56	16.07	16.70	17.19	18.75
4H	2H	11.65	12.26	12.78	13.37	14.91	13.84	14.44	14.96	15.55	17.09
	3H	12.66	13.17	13.80	14.31	15.86	15.32	15.82	16.45	16.96	18.51
	4H	12.93	13.40	14.07	14.52	16.09	15.83	16.30	16.97	17.42	18.99
	6H	13.05	13.45	14.20	14.60	16.16	16.18	16.58	17.33	17.73	19.29
	8H	13.05	13.43	14.20	14.56	16.14	16.28	16.65	17.42	17.79	19.37
	12H	13.01	13.35	14.17	14.50	16.08	16.32	16.66	17.48	17.81	19.39
8H	4H	13.37	13.74	14.52	14.88	16.46	15.95	16.32	17.09	17.46	19.03
	6H	13.63	13.93	14.79	15.11	16.69	16.37	16.67	17.53	17.86	19.43
	8H	13.67	13.94	14.84	15.10	16.69	16.51	16.78	17.68	17.94	19.54
	12H	13.64	13.88	14.82	15.04	16.67	16.60	16.83	17.77	17.99	19.62
12H	4H	13.37	13.71	14.53	14.86	16.44	15.90	16.24	17.06	17.39	18.97
	6H	13.68	13.95	14.85	15.11	16.71	16.36	16.63	17.53	17.79	19.39
	8H	13.74	13.98	14.92	15.14	16.77	16.51	16.75	17.69	17.91	19.53