

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: P936002

Luminaire Tested: SQ4-FA-150U-075D-B40-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

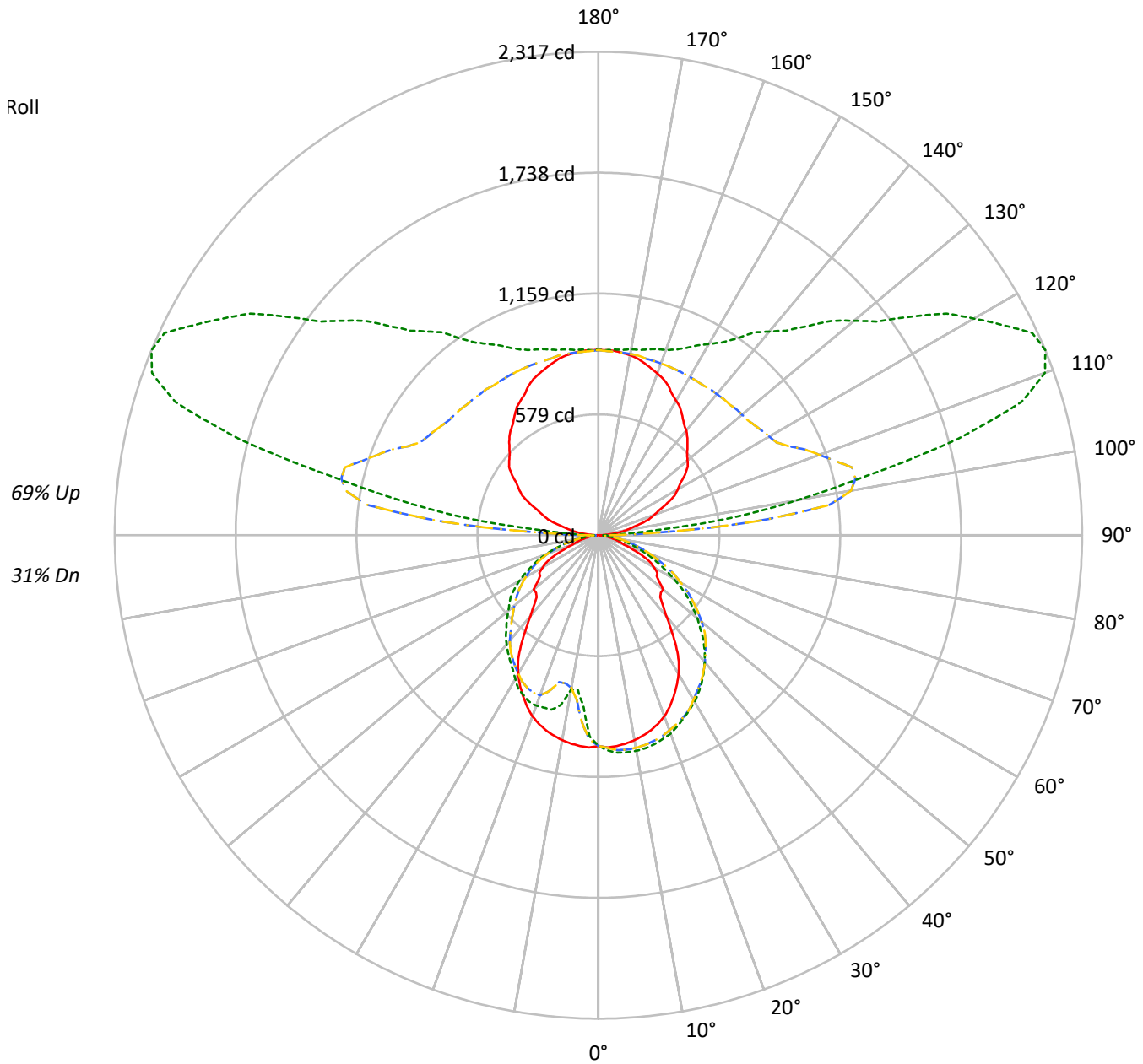
Test Method: LM-79-2019  
Report Number: P936002  
REPORT IS A COMBINATION OF REPORTS P933774 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-075D-B40-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8374.4 lumens  
Efficiency: N/A  
Efficacy: 131.7 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	33	33	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	28	28	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	24	24	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	20	20	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	18	18	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15	15	15	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	14	14	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	12	12	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	11	11	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	10	10	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9367	9367	9367	9367
5°	9427	9457	9427	7436
10°	9354	9316	9354	6660
15°	9242	9114	9242	7609
20°	9038	8874	9038	7625
25°	8632	8526	8632	7464
30°	8111	8236	8111	7109
35°	7220	7870	7220	6719
40°	6006	7439	6006	6425
45°	5357	6934	5357	6086
50°	5677	6332	5677	5746
55°	5326	5684	5326	5550
60°	5470	4828	5470	5083
65°	4935	3990	4935	4461
70°	3394	3179	3394	3739
75°	2945	2350	2945	2814
80°	2326	1555	2326	1692
85°	1267	823	1267	700

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8225 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.1	1.1
10°-20°	258.7	3.1
20°-30°	400.0	4.8
30°-40°	477.5	5.7
40°-50°	480.3	5.7
50°-60°	417.9	5.0
60°-70°	296.3	3.5
70°-80°	156.7	1.9
80°-90°	42.4	0.5
90°-100°	432.6	5.2
100°-110°	1137.4	13.6
110°-120°	1179.3	14.1
120°-130°	946.0	11.3
130°-140°	742.2	8.9
140°-150°	569.7	6.8
150°-160°	410.3	4.9
160°-170°	251.0	3.0
170°-180°	84.8	1.0
0°-30°	749.8	9.0
0°-40°	1227.3	14.7
0°-60°	2125.6	25.4
0°-90°	2621.0	31.3
90°-120°	2749.3	32.8
90°-150°	5007.2	59.8
90°-180°	5753.0	68.7
0°-180°	8374.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1010	1010	1010	1010	1010	
5°	1014	1046	1014	822	1014	96
15°	968	1036	968	865	968	272
25°	853	967	853	846	853	392
35°	648	862	648	736	648	401
45°	418	711	418	624	418	335
55°	341	524	341	512	341	313
65°	237	316	237	353	237	226
75°	90	150	90	180	90	94
85°	15	38	15	32	15	21
90°	6	23	6	23	6	6
95°	57	262	57	262	57	63
105°	205	1781	205	1781	205	217
115°	364	2293	364	2293	364	359
125°	506	1826	506	1826	506	449
135°	603	1417	603	1417	603	467
145°	700	1150	700	1150	700	438
155°	791	990	791	990	791	363
165°	854	922	854	922	854	241
175°	888	894	888	894	888	84
180°	888	888	888	888	888	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1018.1	1018.1	1024.0	1025.9	1025.9	1023.0	1020.1	1023.0	1031.6	1034.5	1033.5
5°	1014.3	1022.0	1032.5	1034.5	1036.4	1035.4	1033.5	1035.4	1045.0	1046.9	1047.8
7.5°	1006.7	1021.1	1034.5	1037.3	1040.2	1037.3	1036.4	1038.3	1047.8	1049.7	1049.7
10°	997.1	1017.2	1032.5	1034.5	1037.3	1034.5	1034.5	1038.3	1047.8	1049.7	1050.7
12.5°	983.7	1011.4	1025.9	1027.8	1031.6	1030.6	1029.7	1033.5	1043.1	1045.0	1045.0
15°	968.5	1000.9	1014.3	1016.2	1023.0	1021.1	1021.1	1024.9	1035.4	1038.3	1037.3
17.5°	947.5	987.6	1002.8	1005.7	1010.5	1009.5	1010.5	1014.3	1024.0	1025.9	1026.8
20°	923.6	969.4	987.6	990.4	995.2	995.2	995.2	1000.0	1009.5	1013.4	1013.4
22.5°	891.1	950.3	969.4	971.3	977.1	977.1	979.0	985.7	994.3	995.2	995.2
25°	852.9	929.3	945.5	951.3	957.0	959.9	962.7	966.6	969.4	968.5	969.4
27.5°	812.8	902.6	923.6	927.4	935.0	937.9	941.7	942.7	943.6	946.5	944.6
30°	767.9	865.3	896.8	900.7	913.1	915.0	911.2	913.1	917.9	919.8	921.7
32.5°	717.3	809.9	869.1	877.7	889.2	883.5	882.5	885.4	893.0	893.0	894.9
35°	648.5	767.0	843.4	851.0	859.6	852.9	856.7	857.7	862.5	865.3	864.4
37.5°	573.1	729.7	816.6	822.4	829.0	820.4	826.2	829.0	832.9	830.9	830.9
40°	506.2	671.5	785.1	788.9	794.7	788.0	793.7	795.6	797.5	795.6	794.7
42.5°	456.6	607.5	751.7	756.5	752.6	757.4	759.3	763.1	760.3	756.5	756.5
45°	418.4	590.3	715.4	721.1	715.4	723.0	725.9	725.9	717.3	715.4	714.4
47.5°	406.0	555.9	679.1	679.1	676.2	685.8	690.6	683.9	675.3	672.4	672.4
50°	405.0	517.7	629.4	625.6	639.0	650.5	645.7	639.0	632.3	621.8	621.8
52.5°	367.8	470.9	565.5	579.8	600.8	607.5	599.8	593.2	581.7	576.9	573.1
55°	341.0	422.2	507.2	535.9	557.8	566.4	552.1	545.4	528.2	525.3	523.4
57.5°	335.2	351.5	453.7	490.0	516.8	515.8	507.2	494.8	480.5	477.6	476.6
60°	307.5	254.0	396.4	439.4	467.1	464.2	456.6	445.1	431.8	429.8	427.9
62.5°	278.9	184.3	331.4	380.2	419.3	418.4	411.7	394.5	385.0	380.2	376.4
65°	236.8	154.7	235.9	316.1	372.5	374.5	360.1	347.7	337.1	331.4	330.4
67.5°	180.5	126.1	159.5	263.6	327.6	325.7	307.5	301.8	288.4	285.5	279.8
70°	133.7	84.0	110.8	213.9	283.6	278.9	264.5	257.8	245.4	238.8	234.9
72.5°	110.8	67.8	81.2	166.2	238.8	233.0	220.6	213.0	202.5	196.7	192.9
75°	89.8	71.6	62.1	123.2	193.9	190.0	178.6	170.9	162.4	154.7	155.7
77.5°	65.9	66.8	49.7	90.7	153.8	148.0	141.3	131.8	128.0	120.3	120.3
80°	49.7	52.5	37.2	62.1	110.8	110.8	105.0	98.4	91.7	87.9	87.9
82.5°	33.4	33.4	27.7	39.2	75.4	72.6	68.8	66.8	63.0	61.1	61.1
85°	15.3	19.1	17.2	23.9	41.1	43.0	43.0	41.1	40.1	38.2	39.2
87.5°	4.8	8.6	10.5	13.4	21.0	22.0	22.9	22.9	22.9	23.9	23.9
90°	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2	22.6	22.6
92.5°	23.8	64.3	104.9	115.0	161.6	223.8	254.9	223.4	160.4	113.2	108.7
95°	57.2	131.3	205.4	223.9	397.7	629.3	745.2	665.0	504.5	384.2	370.5
97.5°	98.8	164.3	229.7	246.0	535.7	922.0	1115.1	1064.3	962.9	886.9	860.9
100°	131.0	190.3	249.6	264.4	585.9	1014.5	1228.8	1232.5	1240.0	1245.5	1214.6
102.5°	158.4	213.8	269.1	283.0	609.0	1043.6	1261.0	1325.5	1454.8	1551.7	1525.2
105°	204.9	251.8	298.6	310.4	626.0	1046.9	1257.4	1402.1	1691.8	1909.0	1894.8
107.5°	252.6	296.2	340.0	350.9	629.2	1000.4	1185.9	1387.9	1791.9	2094.9	2098.3
110°	284.7	324.1	363.7	373.5	624.5	959.0	1126.3	1352.2	1803.8	2142.5	2157.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	316.3	353.9	391.6	400.9	624.7	923.0	1072.2	1303.3	1765.5	2112.2	2134.9
115°	364.0	398.6	433.3	442.0	630.4	881.7	1007.2	1229.8	1675.2	2009.1	2040.7
117.5°	411.0	442.5	474.1	481.9	642.1	855.8	962.5	1163.5	1565.3	1866.7	1901.8
120°	438.3	468.0	497.7	505.1	651.6	847.0	944.7	1128.2	1495.4	1770.9	1804.9
122.5°	465.2	495.1	525.1	532.5	665.3	842.5	931.0	1096.3	1427.0	1675.0	1708.5
125°	506.3	533.6	560.9	567.7	683.8	838.7	916.1	1056.5	1337.4	1548.1	1579.0
127.5°	539.7	567.2	594.7	601.6	702.2	836.5	903.6	1024.2	1265.4	1446.3	1472.3
130°	557.5	587.1	616.7	624.2	715.8	837.8	898.8	1006.2	1220.9	1381.9	1406.0
132.5°	576.0	605.7	635.3	642.7	726.7	838.7	894.6	990.7	1183.0	1327.1	1348.7
135°	603.4	630.4	657.3	664.1	738.6	837.8	887.5	968.0	1128.9	1249.6	1268.2
137.5°	631.4	658.1	684.8	691.5	756.5	843.1	886.3	954.3	1090.4	1192.5	1207.7
140°	654.7	679.3	703.9	710.0	767.4	843.9	882.1	940.9	1058.4	1146.6	1160.8
142.5°	672.5	695.2	718.0	723.7	776.5	846.9	882.1	933.8	1037.0	1114.5	1126.7
145°	699.9	719.8	739.6	744.5	788.4	847.0	876.2	918.4	1002.8	1066.2	1075.4
147.5°	727.2	746.6	765.9	770.8	805.9	852.8	876.2	909.4	975.8	1025.7	1033.3
150°	745.2	762.7	780.0	784.4	815.0	855.8	876.2	904.3	960.3	1002.5	1008.7
152.5°	763.6	776.9	790.1	793.4	821.0	857.8	876.2	900.2	948.1	984.0	988.7
155°	791.0	800.9	810.6	813.1	834.1	862.2	876.2	895.3	933.4	962.0	965.1
157.5°	811.3	820.8	830.3	832.7	847.2	866.6	876.2	891.0	920.6	942.9	945.1
160°	824.9	832.4	839.8	841.6	853.2	868.6	876.2	888.9	914.3	933.3	934.6
162.5°	838.7	844.2	849.8	851.2	859.5	870.7	876.2	886.9	908.4	924.4	925.6
165°	853.6	858.5	863.6	864.8	868.7	873.7	876.2	883.9	899.2	910.7	911.9
167.5°	867.2	869.6	872.0	872.6	875.7	880.0	882.1	887.2	897.2	904.8	905.3
170°	876.2	878.6	881.0	881.6	881.8	882.0	882.1	887.2	897.2	904.8	904.8
172.5°	881.0	881.5	882.0	882.1	882.1	882.1	882.1	886.1	894.1	900.0	899.5
175°	887.5	887.5	887.5	887.5	885.7	883.3	882.1	884.6	889.7	893.5	893.5
177.5°	887.5	887.5	887.5	887.5	886.1	884.3	883.4	885.4	889.3	892.3	891.7
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1035.4	1032.5	1035.4	1033.5	1034.5	1031.6	1023.0	1020.1	1023.0	1025.9	1025.9
5°	1047.8	1045.9	1047.8	1047.8	1046.9	1045.0	1035.4	1033.5	1035.4	1036.4	1034.5
7.5°	1051.6	1048.8	1051.6	1049.7	1049.7	1047.8	1038.3	1036.4	1037.3	1040.2	1037.3
10°	1051.6	1048.8	1051.6	1050.7	1049.7	1047.8	1038.3	1034.5	1034.5	1037.3	1034.5
12.5°	1046.9	1045.0	1046.9	1045.0	1045.0	1043.1	1033.5	1029.7	1030.6	1031.6	1027.8
15°	1039.2	1036.4	1039.2	1037.3	1038.3	1035.4	1024.9	1021.1	1021.1	1023.0	1016.2
17.5°	1027.8	1024.0	1027.8	1026.8	1025.9	1024.0	1014.3	1010.5	1009.5	1010.5	1005.7
20°	1014.3	1011.4	1014.3	1013.4	1013.4	1009.5	1000.0	995.2	995.2	995.2	990.4
22.5°	993.3	990.4	993.3	995.2	995.2	994.3	985.7	979.0	977.1	977.1	971.3
25°	969.4	966.6	969.4	969.4	968.5	969.4	966.6	962.7	959.9	957.0	951.3
27.5°	946.5	944.6	946.5	944.6	946.5	943.6	942.7	941.7	937.9	935.0	927.4
30°	923.6	921.7	923.6	921.7	919.8	917.9	913.1	911.2	915.0	913.1	900.7
32.5°	894.9	893.0	894.9	894.9	893.0	893.0	885.4	882.5	883.5	889.2	877.7
35°	865.3	862.5	865.3	864.4	865.3	862.5	857.7	856.7	852.9	859.6	851.0
37.5°	830.9	828.1	830.9	830.9	830.9	832.9	829.0	826.2	820.4	829.0	822.4
40°	795.6	791.8	795.6	794.7	795.6	797.5	795.6	793.7	788.0	794.7	788.9
42.5°	755.5	754.5	755.5	756.5	756.5	760.3	763.1	759.3	757.4	752.6	756.5
45°	712.5	710.6	712.5	714.4	715.4	717.3	725.9	725.9	723.0	715.4	721.1
47.5°	666.7	661.9	666.7	672.4	672.4	675.3	683.9	690.6	685.8	676.2	679.1
50°	618.0	618.9	618.0	621.8	621.8	632.3	639.0	645.7	650.5	639.0	625.6
52.5°	570.2	569.3	570.2	573.1	576.9	581.7	593.2	599.8	607.5	600.8	579.8
55°	522.5	524.4	522.5	523.4	525.3	528.2	545.4	552.1	566.4	557.8	535.9
57.5°	474.7	471.9	474.7	476.6	477.6	480.5	494.8	507.2	515.8	516.8	490.0
60°	419.3	415.5	419.3	427.9	429.8	431.8	445.1	456.6	464.2	467.1	439.4
62.5°	370.6	364.0	370.6	376.4	380.2	385.0	394.5	411.7	418.4	419.3	380.2
65°	319.0	316.1	319.0	330.4	331.4	337.1	347.7	360.1	374.5	372.5	316.1
67.5°	272.2	272.2	272.2	279.8	285.5	288.4	301.8	307.5	325.7	327.6	263.6
70°	229.2	228.2	229.2	234.9	238.8	245.4	257.8	264.5	278.9	283.6	213.9
72.5°	188.1	187.2	188.1	192.9	196.7	202.5	213.0	220.6	233.0	238.8	166.2
75°	151.8	149.9	151.8	155.7	154.7	162.4	170.9	178.6	190.0	193.9	123.2
77.5°	116.5	116.5	116.5	120.3	120.3	128.0	131.8	141.3	148.0	153.8	90.7
80°	86.9	86.0	86.9	87.9	87.9	91.7	98.4	105.0	110.8	110.8	62.1
82.5°	61.1	59.2	61.1	61.1	61.1	63.0	66.8	68.8	72.6	75.4	39.2
85°	38.2	38.2	38.2	39.2	38.2	40.1	41.1	43.0	43.0	41.1	23.9
87.5°	24.8	23.9	24.8	23.9	23.9	22.9	22.9	22.9	22.0	21.0	13.4
90°	22.6	22.6	22.6	22.6	22.6	30.2	40.2	45.3	39.0	26.3	16.7
92.5°	90.6	72.7	90.6	108.7	113.2	160.4	223.4	254.9	223.8	161.6	115.0
95°	316.0	261.5	316.0	370.5	384.2	504.5	665.0	745.2	629.3	397.7	223.9
97.5°	757.2	653.4	757.2	860.9	886.9	962.9	1064.3	1115.1	922.0	535.7	246.0
100°	1091.0	967.3	1091.0	1214.6	1245.5	1240.0	1232.5	1228.8	1014.5	585.9	264.4
102.5°	1419.3	1313.4	1419.3	1525.2	1551.7	1454.8	1325.5	1261.0	1043.6	609.0	283.0
105°	1837.9	1781.0	1837.9	1894.8	1909.0	1691.8	1402.1	1257.4	1046.9	626.0	310.4
107.5°	2112.1	2125.8	2112.1	2098.3	2094.9	1791.9	1387.9	1185.9	1000.4	629.2	350.9
110°	2216.7	2276.0	2216.7	2157.3	2142.5	1803.8	1352.2	1126.3	959.0	624.5	373.5





TEST NUMBER: P936002

CATALOG NUMBER: SQ4-FA-150U-075D-B40-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2226.0	2317.0	2226.0	2134.9	2112.2	1765.5	1303.3	1072.2	923.0	624.7	400.9
115°	2167.0	2293.2	2167.0	2040.7	2009.1	1675.2	1229.8	1007.2	881.7	630.4	442.0
117.5°	2041.8	2181.8	2041.8	1901.8	1866.7	1565.3	1163.5	962.5	855.8	642.1	481.9
120°	1940.9	2077.0	1940.9	1804.9	1770.9	1495.4	1128.2	944.7	847.0	651.6	505.1
122.5°	1842.8	1976.9	1842.8	1708.5	1675.0	1427.0	1096.3	931.0	842.5	665.3	532.5
125°	1702.6	1826.2	1702.6	1579.0	1548.1	1337.4	1056.5	916.1	838.7	683.8	567.7
127.5°	1576.6	1680.9	1576.6	1472.3	1446.3	1265.4	1024.2	903.6	836.5	702.2	601.6
130°	1502.3	1598.7	1502.3	1406.0	1381.9	1220.9	1006.2	898.8	837.8	715.8	624.2
132.5°	1434.9	1521.2	1434.9	1348.7	1327.1	1183.0	990.7	894.6	838.7	726.7	642.7
135°	1342.6	1417.0	1342.6	1268.2	1249.6	1128.9	968.0	887.5	837.8	738.6	664.1
137.5°	1268.6	1329.5	1268.6	1207.7	1192.5	1090.4	954.3	886.3	843.1	756.5	691.5
140°	1217.7	1274.6	1217.7	1160.8	1146.6	1058.4	940.9	882.1	843.9	767.4	710.0
142.5°	1175.7	1224.6	1175.7	1126.7	1114.5	1037.0	933.8	882.1	846.9	776.5	723.7
145°	1112.6	1149.6	1112.6	1075.4	1066.2	1002.8	918.4	876.2	847.0	788.4	744.5
147.5°	1064.1	1094.8	1064.1	1033.3	1025.7	975.8	909.4	876.2	852.8	805.9	770.8
150°	1033.6	1058.4	1033.6	1008.7	1002.5	960.3	904.3	876.2	855.8	815.0	784.4
152.5°	1007.5	1026.2	1007.5	988.7	984.0	948.1	900.2	876.2	857.8	821.0	793.4
155°	977.5	990.0	977.5	965.1	962.0	933.4	895.3	876.2	862.2	834.1	813.1
157.5°	953.8	962.5	953.8	945.1	942.9	920.6	891.0	876.2	866.6	847.2	832.7
160°	939.6	944.7	939.6	934.6	933.3	914.3	888.9	876.2	868.6	853.2	841.6
162.5°	930.4	935.1	930.4	925.6	924.4	908.4	886.9	876.2	870.7	859.5	851.2
165°	917.0	922.1	917.0	911.9	910.7	899.2	883.9	876.2	873.7	868.7	864.8
167.5°	907.4	909.5	907.4	905.3	904.8	897.2	887.2	882.1	880.0	875.7	872.6
170°	904.8	904.8	904.8	904.8	904.8	897.2	887.2	882.1	882.0	881.8	881.6
172.5°	897.7	895.9	897.7	899.5	900.0	894.1	886.1	882.1	882.1	882.1	882.1
175°	893.5	893.5	893.5	893.5	893.5	889.7	884.6	882.1	883.3	885.7	887.5
177.5°	889.6	887.5	889.6	891.7	892.3	889.3	885.4	883.4	884.3	886.1	887.5
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P936002

CATALOG NUMBER: SQ4-FA-150U-075D-B40-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1024.0	1018.1	1018.1	1008.6	1004.8	1001.9	997.1	982.8	979.0	975.2	980.9
5°	1032.5	1022.0	1014.3	997.1	982.8	977.1	958.9	924.5	901.6	884.4	874.9
7.5°	1034.5	1021.1	1006.7	979.9	945.5	930.3	874.9	811.8	794.7	779.4	769.8
10°	1032.5	1017.2	997.1	957.0	875.8	849.1	793.7	752.6	742.1	739.3	742.1
12.5°	1025.9	1011.4	983.7	916.9	803.3	785.1	752.6	728.8	726.9	731.6	757.4
15°	1014.3	1000.9	968.5	863.4	763.1	749.8	726.9	718.3	728.8	762.2	839.5
17.5°	1002.8	987.6	947.5	810.9	732.6	723.0	706.8	724.0	783.2	828.1	853.9
20°	987.6	969.4	923.6	772.7	710.6	702.0	694.4	771.7	816.6	832.9	847.2
22.5°	969.4	950.3	891.1	746.0	687.7	681.0	685.8	798.5	816.6	828.1	840.5
25°	945.5	929.3	852.9	724.9	669.6	661.9	680.1	795.6	806.1	809.0	833.8
27.5°	923.6	902.6	812.8	705.8	647.6	644.7	684.8	783.2	790.8	793.7	820.4
30°	896.8	865.3	767.9	685.8	624.7	623.7	685.8	767.9	766.0	773.6	800.4
32.5°	869.1	809.9	717.3	661.0	602.7	601.7	679.1	745.0	743.1	753.6	773.6
35°	843.4	767.0	648.5	632.3	575.0	576.0	662.9	718.3	719.2	728.8	741.2
37.5°	816.6	729.7	573.1	600.8	548.3	548.3	640.9	693.4	691.5	694.4	711.6
40°	785.1	671.5	506.2	559.7	523.4	520.6	614.2	666.7	660.0	659.0	682.9
42.5°	751.7	607.5	456.6	505.3	494.8	491.0	581.7	634.2	621.8	624.7	655.2
45°	715.4	590.3	418.4	427.0	465.2	462.3	546.4	597.0	588.4	596.0	627.5
47.5°	679.1	555.9	406.0	354.4	433.7	432.7	507.2	560.7	555.9	563.5	597.0
50°	629.4	517.7	405.0	303.7	398.3	402.2	460.4	525.3	525.3	532.0	567.4
52.5°	565.5	470.9	367.8	275.0	357.3	368.7	419.3	494.8	496.7	503.4	534.9
55°	507.2	422.2	341.0	253.1	308.5	333.3	379.2	463.3	467.1	473.8	502.4
57.5°	453.7	351.5	335.2	227.3	263.6	287.5	343.9	432.7	434.6	440.4	468.0
60°	396.4	254.0	307.5	199.6	224.4	242.6	311.3	396.4	403.1	406.9	430.8
62.5°	331.4	184.3	278.9	180.5	205.3	209.1	284.6	362.0	370.6	373.5	387.8
65°	235.9	154.7	236.8	164.3	185.3	186.2	255.9	326.6	334.2	339.0	349.6
67.5°	159.5	126.1	180.5	149.0	170.0	170.9	228.2	285.5	296.0	299.9	306.6
70°	110.8	84.0	133.7	132.7	152.8	154.7	198.6	248.3	257.8	260.7	264.5
72.5°	81.2	67.8	110.8	119.4	134.7	136.6	168.1	206.3	215.8	218.7	220.6
75°	62.1	71.6	89.8	104.1	114.6	115.6	137.5	168.1	174.8	176.7	177.6
77.5°	49.7	66.8	65.9	84.0	93.6	91.7	107.9	129.9	135.6	135.6	135.6
80°	37.2	52.5	49.7	60.2	68.8	66.8	77.4	92.6	94.5	96.5	95.5
82.5°	27.7	33.4	33.4	38.2	45.8	43.9	51.6	60.2	60.2	60.2	62.1
85°	17.2	19.1	15.3	20.1	25.8	24.8	28.6	32.5	33.4	33.4	31.5
87.5°	10.5	8.6	4.8	7.6	11.5	11.5	13.4	14.3	13.4	13.4	13.4
90°	15.5	10.7	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2
92.5°	104.9	64.3	23.8	64.3	104.9	115.0	161.6	223.8	254.9	223.4	160.4
95°	205.4	131.3	57.2	131.3	205.4	223.9	397.7	629.3	745.2	665.0	504.5
97.5°	229.7	164.3	98.8	164.3	229.7	246.0	535.7	922.0	1115.1	1064.3	962.9
100°	249.6	190.3	131.0	190.3	249.6	264.4	585.9	1014.5	1228.8	1232.5	1240.0
102.5°	269.1	213.8	158.4	213.8	269.1	283.0	609.0	1043.6	1261.0	1325.5	1454.8
105°	298.6	251.8	204.9	251.8	298.6	310.4	626.0	1046.9	1257.4	1402.1	1691.8
107.5°	340.0	296.2	252.6	296.2	340.0	350.9	629.2	1000.4	1185.9	1387.9	1791.9
110°	363.7	324.1	284.7	324.1	363.7	373.5	624.5	959.0	1126.3	1352.2	1803.8



TEST NUMBER: P936002

CATALOG NUMBER: SQ4-FA-150U-075D-B40-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	391.6	353.9	316.3	353.9	391.6	400.9	624.7	923.0	1072.2	1303.3	1765.5
115°	433.3	398.6	364.0	398.6	433.3	442.0	630.4	881.7	1007.2	1229.8	1675.2
117.5°	474.1	442.5	411.0	442.5	474.1	481.9	642.1	855.8	962.5	1163.5	1565.3
120°	497.7	468.0	438.3	468.0	497.7	505.1	651.6	847.0	944.7	1128.2	1495.4
122.5°	525.1	495.1	465.2	495.1	525.1	532.5	665.3	842.5	931.0	1096.3	1427.0
125°	560.9	533.6	506.3	533.6	560.9	567.7	683.8	838.7	916.1	1056.5	1337.4
127.5°	594.7	567.2	539.7	567.2	594.7	601.6	702.2	836.5	903.6	1024.2	1265.4
130°	616.7	587.1	557.5	587.1	616.7	624.2	715.8	837.8	898.8	1006.2	1220.9
132.5°	635.3	605.7	576.0	605.7	635.3	642.7	726.7	838.7	894.6	990.7	1183.0
135°	657.3	630.4	603.4	630.4	657.3	664.1	738.6	837.8	887.5	968.0	1128.9
137.5°	684.8	658.1	631.4	658.1	684.8	691.5	756.5	843.1	886.3	954.3	1090.4
140°	703.9	679.3	654.7	679.3	703.9	710.0	767.4	843.9	882.1	940.9	1058.4
142.5°	718.0	695.2	672.5	695.2	718.0	723.7	776.5	846.9	882.1	933.8	1037.0
145°	739.6	719.8	699.9	719.8	739.6	744.5	788.4	847.0	876.2	918.4	1002.8
147.5°	765.9	746.6	727.2	746.6	765.9	770.8	805.9	852.8	876.2	909.4	975.8
150°	780.0	762.7	745.2	762.7	780.0	784.4	815.0	855.8	876.2	904.3	960.3
152.5°	790.1	776.9	763.6	776.9	790.1	793.4	821.0	857.8	876.2	900.2	948.1
155°	810.6	800.9	791.0	800.9	810.6	813.1	834.1	862.2	876.2	895.3	933.4
157.5°	830.3	820.8	811.3	820.8	830.3	832.7	847.2	866.6	876.2	891.0	920.6
160°	839.8	832.4	824.9	832.4	839.8	841.6	853.2	868.6	876.2	888.9	914.3
162.5°	849.8	844.2	838.7	844.2	849.8	851.2	859.5	870.7	876.2	886.9	908.4
165°	863.6	858.5	853.6	858.5	863.6	864.8	868.7	873.7	876.2	883.9	899.2
167.5°	872.0	869.6	867.2	869.6	872.0	872.6	875.7	880.0	882.1	887.2	897.2
170°	881.0	878.6	876.2	878.6	881.0	881.6	881.8	882.0	882.1	887.2	897.2
172.5°	882.0	881.5	881.0	881.5	882.0	882.1	882.1	882.1	882.1	886.1	894.1
175°	887.5	887.5	887.5	887.5	887.5	887.5	885.7	883.3	882.1	884.6	889.7
177.5°	887.5	887.5	887.5	887.5	887.5	887.5	886.1	884.3	883.4	885.4	889.3
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P936002

CATALOG NUMBER: SQ4-FA-150U-075D-B40-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	974.2	971.3	975.2	964.6	975.2	971.3	974.2	980.9	975.2	979.0	982.8
5°	854.8	850.0	834.8	822.4	834.8	850.0	854.8	874.9	884.4	901.6	924.5
7.5°	764.1	760.3	756.5	748.8	756.5	760.3	764.1	769.8	779.4	794.7	811.8
10°	744.0	745.0	750.7	749.8	750.7	745.0	744.0	742.1	739.3	742.1	752.6
12.5°	795.6	804.2	835.7	833.8	835.7	804.2	795.6	757.4	731.6	726.9	728.8
15°	854.8	857.7	864.4	865.3	864.4	857.7	854.8	839.5	762.2	728.8	718.3
17.5°	860.6	861.5	866.3	866.3	866.3	861.5	860.6	853.9	828.1	783.2	724.0
20°	855.8	857.7	867.2	869.1	867.2	857.7	855.8	847.2	832.9	816.6	771.7
22.5°	853.9	857.7	865.3	864.4	865.3	857.7	853.9	840.5	828.1	816.6	798.5
25°	844.3	844.3	845.3	846.2	845.3	844.3	844.3	833.8	809.0	806.1	795.6
27.5°	824.3	826.2	831.9	830.9	831.9	826.2	824.3	820.4	793.7	790.8	783.2
30°	806.1	804.2	799.4	795.6	799.4	804.2	806.1	800.4	773.6	766.0	767.9
32.5°	775.6	770.8	766.0	763.1	766.0	770.8	775.6	773.6	753.6	743.1	745.0
35°	739.3	740.2	739.3	736.4	739.3	740.2	739.3	741.2	728.8	719.2	718.3
37.5°	713.5	715.4	714.4	710.6	714.4	715.4	713.5	711.6	694.4	691.5	693.4
40°	686.7	687.7	686.7	683.9	686.7	687.7	686.7	682.9	659.0	660.0	666.7
42.5°	661.0	660.0	657.1	655.2	657.1	660.0	661.0	655.2	624.7	621.8	634.2
45°	631.4	632.3	626.6	623.7	626.6	632.3	631.4	627.5	596.0	588.4	597.0
47.5°	601.7	601.7	597.0	594.1	597.0	601.7	601.7	597.0	563.5	555.9	560.7
50°	570.2	569.3	562.6	561.6	562.6	569.3	570.2	567.4	532.0	525.3	525.3
52.5°	533.9	533.9	534.9	536.8	534.9	533.9	533.9	534.9	503.4	496.7	494.8
55°	502.4	503.4	510.1	512.0	510.1	503.4	502.4	502.4	473.8	467.1	463.3
57.5°	470.0	470.0	474.7	474.7	474.7	470.0	470.0	468.0	440.4	434.6	432.7
60°	432.7	434.6	438.4	437.5	438.4	434.6	432.7	430.8	406.9	403.1	396.4
62.5°	393.6	395.5	396.4	394.5	396.4	395.5	393.6	387.8	373.5	370.6	362.0
65°	352.5	354.4	355.4	353.4	355.4	354.4	352.5	349.6	339.0	334.2	326.6
67.5°	310.4	309.4	308.5	312.3	308.5	309.4	310.4	306.6	299.9	296.0	285.5
70°	267.4	267.4	266.4	268.4	266.4	267.4	267.4	264.5	260.7	257.8	248.3
72.5°	221.6	220.6	224.4	221.6	224.4	220.6	221.6	220.6	218.7	215.8	206.3
75°	176.7	178.6	176.7	179.5	176.7	178.6	176.7	177.6	176.7	174.8	168.1
77.5°	134.7	136.6	134.7	134.7	134.7	136.6	134.7	135.6	135.6	135.6	129.9
80°	95.5	94.5	94.5	93.6	94.5	94.5	95.5	95.5	96.5	94.5	92.6
82.5°	61.1	60.2	60.2	62.1	60.2	60.2	61.1	62.1	60.2	60.2	60.2
85°	33.4	34.4	32.5	32.5	32.5	34.4	33.4	31.5	33.4	33.4	32.5
87.5°	12.4	11.5	11.5	11.5	11.5	11.5	12.4	13.4	13.4	13.4	14.3
90°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	30.2	40.2	45.3	39.0
92.5°	113.2	108.7	90.6	72.7	90.6	108.7	113.2	160.4	223.4	254.9	223.8
95°	384.2	370.5	316.0	261.5	316.0	370.5	384.2	504.5	665.0	745.2	629.3
97.5°	886.9	860.9	757.2	653.4	757.2	860.9	886.9	962.9	1064.3	1115.1	922.0
100°	1245.5	1214.6	1091.0	967.3	1091.0	1214.6	1245.5	1240.0	1232.5	1228.8	1014.5
102.5°	1551.7	1525.2	1419.3	1313.4	1419.3	1525.2	1551.7	1454.8	1325.5	1261.0	1043.6
105°	1909.0	1894.8	1837.9	1781.0	1837.9	1894.8	1909.0	1691.8	1402.1	1257.4	1046.9
107.5°	2094.9	2098.3	2112.1	2125.8	2112.1	2098.3	2094.9	1791.9	1387.9	1185.9	1000.4
110°	2142.5	2157.3	2216.7	2276.0	2216.7	2157.3	2142.5	1803.8	1352.2	1126.3	959.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2112.2	2134.9	2226.0	2317.0	2226.0	2134.9	2112.2	1765.5	1303.3	1072.2	923.0
115°	2009.1	2040.7	2167.0	2293.2	2167.0	2040.7	2009.1	1675.2	1229.8	1007.2	881.7
117.5°	1866.7	1901.8	2041.8	2181.8	2041.8	1901.8	1866.7	1565.3	1163.5	962.5	855.8
120°	1770.9	1804.9	1940.9	2077.0	1940.9	1804.9	1770.9	1495.4	1128.2	944.7	847.0
122.5°	1675.0	1708.5	1842.8	1976.9	1842.8	1708.5	1675.0	1427.0	1096.3	931.0	842.5
125°	1548.1	1579.0	1702.6	1826.2	1702.6	1579.0	1548.1	1337.4	1056.5	916.1	838.7
127.5°	1446.3	1472.3	1576.6	1680.9	1576.6	1472.3	1446.3	1265.4	1024.2	903.6	836.5
130°	1381.9	1406.0	1502.3	1598.7	1502.3	1406.0	1381.9	1220.9	1006.2	898.8	837.8
132.5°	1327.1	1348.7	1434.9	1521.2	1434.9	1348.7	1327.1	1183.0	990.7	894.6	838.7
135°	1249.6	1268.2	1342.6	1417.0	1342.6	1268.2	1249.6	1128.9	968.0	887.5	837.8
137.5°	1192.5	1207.7	1268.6	1329.5	1268.6	1207.7	1192.5	1090.4	954.3	886.3	843.1
140°	1146.6	1160.8	1217.7	1274.6	1217.7	1160.8	1146.6	1058.4	940.9	882.1	843.9
142.5°	1114.5	1126.7	1175.7	1224.6	1175.7	1126.7	1114.5	1037.0	933.8	882.1	846.9
145°	1066.2	1075.4	1112.6	1149.6	1112.6	1075.4	1066.2	1002.8	918.4	876.2	847.0
147.5°	1025.7	1033.3	1064.1	1094.8	1064.1	1033.3	1025.7	975.8	909.4	876.2	852.8
150°	1002.5	1008.7	1033.6	1058.4	1033.6	1008.7	1002.5	960.3	904.3	876.2	855.8
152.5°	984.0	988.7	1007.5	1026.2	1007.5	988.7	984.0	948.1	900.2	876.2	857.8
155°	962.0	965.1	977.5	990.0	977.5	965.1	962.0	933.4	895.3	876.2	862.2
157.5°	942.9	945.1	953.8	962.5	953.8	945.1	942.9	920.6	891.0	876.2	866.6
160°	933.3	934.6	939.6	944.7	939.6	934.6	933.3	914.3	888.9	876.2	868.6
162.5°	924.4	925.6	930.4	935.1	930.4	925.6	924.4	908.4	886.9	876.2	870.7
165°	910.7	911.9	917.0	922.1	917.0	911.9	910.7	899.2	883.9	876.2	873.7
167.5°	904.8	905.3	907.4	909.5	907.4	905.3	904.8	897.2	887.2	882.1	880.0
170°	904.8	904.8	904.8	904.8	904.8	904.8	904.8	897.2	887.2	882.1	882.0
172.5°	900.0	899.5	897.7	895.9	897.7	899.5	900.0	894.1	886.1	882.1	882.1
175°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	889.7	884.6	882.1	883.3
177.5°	892.3	891.7	889.6	887.5	889.6	891.7	892.3	889.3	885.4	883.4	884.3
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	997.1	1001.9	1004.8	1008.6	1018.1
5°	958.9	977.1	982.8	997.1	1014.3
7.5°	874.9	930.3	945.5	979.9	1006.7
10°	793.7	849.1	875.8	957.0	997.1
12.5°	752.6	785.1	803.3	916.9	983.7
15°	726.9	749.8	763.1	863.4	968.5
17.5°	706.8	723.0	732.6	810.9	947.5
20°	694.4	702.0	710.6	772.7	923.6
22.5°	685.8	681.0	687.7	746.0	891.1
25°	680.1	661.9	669.6	724.9	852.9
27.5°	684.8	644.7	647.6	705.8	812.8
30°	685.8	623.7	624.7	685.8	767.9
32.5°	679.1	601.7	602.7	661.0	717.3
35°	662.9	576.0	575.0	632.3	648.5
37.5°	640.9	548.3	548.3	600.8	573.1
40°	614.2	520.6	523.4	559.7	506.2
42.5°	581.7	491.0	494.8	505.3	456.6
45°	546.4	462.3	465.2	427.0	418.4
47.5°	507.2	432.7	433.7	354.4	406.0
50°	460.4	402.2	398.3	303.7	405.0
52.5°	419.3	368.7	357.3	275.0	367.8
55°	379.2	333.3	308.5	253.1	341.0
57.5°	343.9	287.5	263.6	227.3	335.2
60°	311.3	242.6	224.4	199.6	307.5
62.5°	284.6	209.1	205.3	180.5	278.9
65°	255.9	186.2	185.3	164.3	236.8
67.5°	228.2	170.9	170.0	149.0	180.5
70°	198.6	154.7	152.8	132.7	133.7
72.5°	168.1	136.6	134.7	119.4	110.8
75°	137.5	115.6	114.6	104.1	89.8
77.5°	107.9	91.7	93.6	84.0	65.9
80°	77.4	66.8	68.8	60.2	49.7
82.5°	51.6	43.9	45.8	38.2	33.4
85°	28.6	24.8	25.8	20.1	15.3
87.5°	13.4	11.5	11.5	7.6	4.8
90°	26.3	16.7	15.5	10.7	5.9
92.5°	161.6	115.0	104.9	64.3	23.8
95°	397.7	223.9	205.4	131.3	57.2
97.5°	535.7	246.0	229.7	164.3	98.8
100°	585.9	264.4	249.6	190.3	131.0
102.5°	609.0	283.0	269.1	213.8	158.4
105°	626.0	310.4	298.6	251.8	204.9
107.5°	629.2	350.9	340.0	296.2	252.6
110°	624.5	373.5	363.7	324.1	284.7



TEST NUMBER: P936002

CATALOG NUMBER: SQ4-FA-150U-075D-B40-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	624.7	400.9	391.6	353.9	316.3
115°	630.4	442.0	433.3	398.6	364.0
117.5°	642.1	481.9	474.1	442.5	411.0
120°	651.6	505.1	497.7	468.0	438.3
122.5°	665.3	532.5	525.1	495.1	465.2
125°	683.8	567.7	560.9	533.6	506.3
127.5°	702.2	601.6	594.7	567.2	539.7
130°	715.8	624.2	616.7	587.1	557.5
132.5°	726.7	642.7	635.3	605.7	576.0
135°	738.6	664.1	657.3	630.4	603.4
137.5°	756.5	691.5	684.8	658.1	631.4
140°	767.4	710.0	703.9	679.3	654.7
142.5°	776.5	723.7	718.0	695.2	672.5
145°	788.4	744.5	739.6	719.8	699.9
147.5°	805.9	770.8	765.9	746.6	727.2
150°	815.0	784.4	780.0	762.7	745.2
152.5°	821.0	793.4	790.1	776.9	763.6
155°	834.1	813.1	810.6	800.9	791.0
157.5°	847.2	832.7	830.3	820.8	811.3
160°	853.2	841.6	839.8	832.4	824.9
162.5°	859.5	851.2	849.8	844.2	838.7
165°	868.7	864.8	863.6	858.5	853.6
167.5°	875.7	872.6	872.0	869.6	867.2
170°	881.8	881.6	881.0	878.6	876.2
172.5°	882.1	882.1	882.0	881.5	881.0
175°	885.7	887.5	887.5	887.5	887.5
177.5°	886.1	887.5	887.5	887.5	887.5
180°	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P936002  
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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	10.53	11.24	11.63	12.34	13.86	13.32	14.04	14.43	15.14	16.65
	3H	10.99	11.63	12.10	12.74	14.27	14.65	15.29	15.76	16.40	17.93
	4H	11.18	11.78	12.30	12.89	14.43	15.08	15.69	16.20	16.79	18.33
	6H	11.29	11.85	12.42	12.96	14.51	15.35	15.91	16.48	17.02	18.57
	8H	11.29	11.82	12.42	12.94	14.49	15.41	15.95	16.55	17.07	18.62
	12H	11.25	11.76	12.39	12.88	14.44	15.44	15.95	16.58	17.07	18.63
4H	2H	11.53	12.14	12.66	13.25	14.79	13.72	14.32	14.85	15.43	16.97
	3H	12.55	13.05	13.68	14.19	15.74	15.20	15.71	16.33	16.84	18.39
	4H	12.82	13.28	13.95	14.41	15.98	15.71	16.18	16.85	17.30	18.87
	6H	12.93	13.33	14.08	14.48	16.04	16.06	16.46	17.21	17.61	19.17
	8H	12.94	13.31	14.08	14.45	16.02	16.16	16.53	17.31	17.67	19.25
	12H	12.90	13.23	14.06	14.38	15.97	16.21	16.54	17.37	17.69	19.28
8H	4H	13.25	13.62	14.40	14.76	16.34	15.83	16.20	16.97	17.34	18.92
	6H	13.51	13.82	14.67	15.00	16.57	16.25	16.56	17.41	17.74	19.31
	8H	13.55	13.82	14.72	14.98	16.57	16.40	16.66	17.57	17.82	19.42
	12H	13.53	13.76	14.70	14.92	16.55	16.48	16.72	17.66	17.87	19.50
12H	4H	13.25	13.59	14.41	14.74	16.32	15.78	16.12	16.95	17.27	18.86
	6H	13.57	13.83	14.74	14.99	16.59	16.25	16.51	17.42	17.67	19.27
	8H	13.63	13.86	14.80	15.02	16.65	16.40	16.63	17.57	17.79	19.42