

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: P935934

Luminaire Tested: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

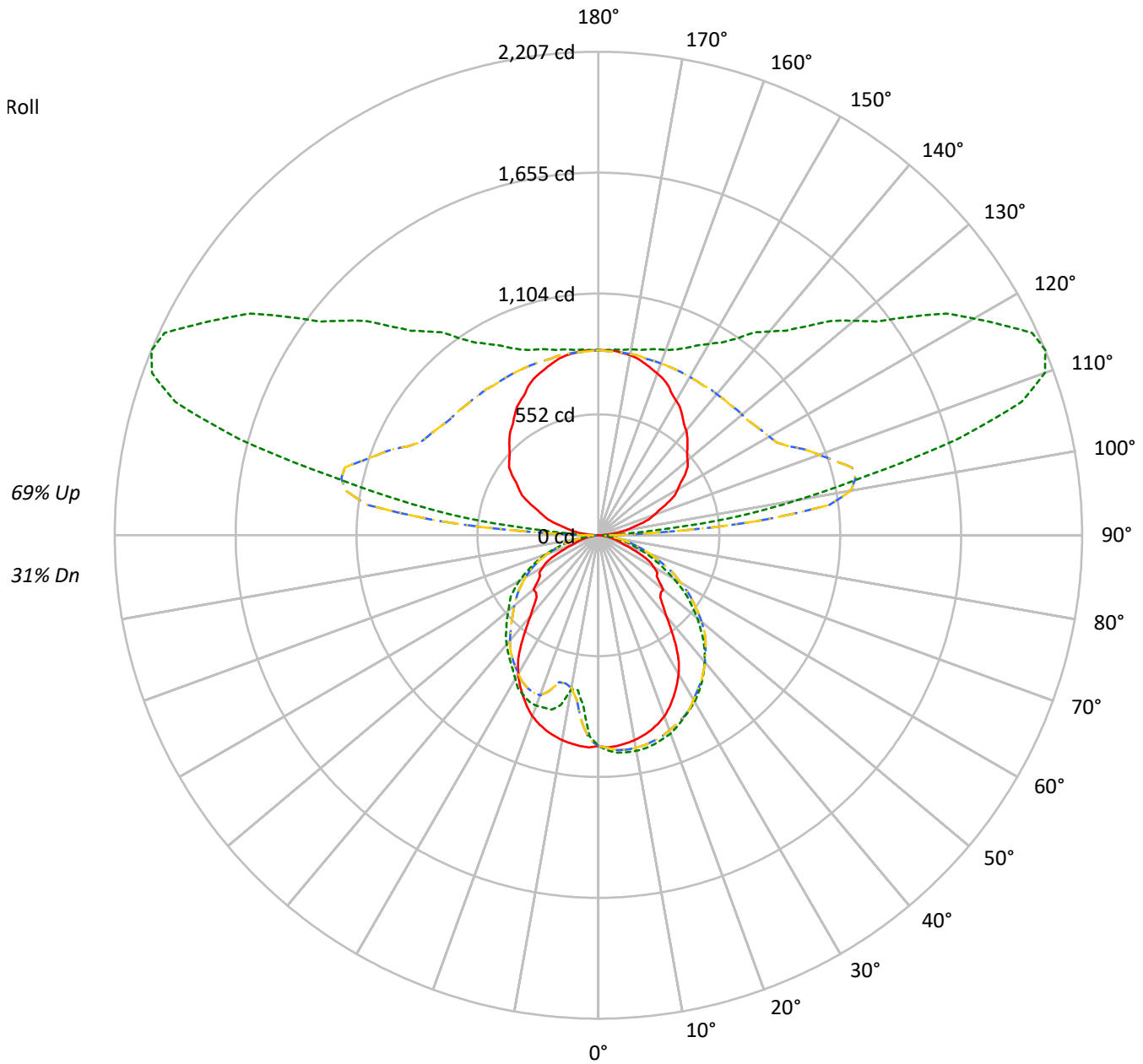
Test Method: LM-79-2019  
Report Number: P935934  
REPORT IS A COMBINATION OF REPORTS P933774 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7976.6 lumens  
Efficiency: N/A  
Efficacy: 125.4 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

TEST NUMBER: P935934  
CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-4000K

### 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				
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°	8923	8923	8923	8923
5°	8979	9008	8979	7083
10°	8910	8873	8910	6344
15°	8803	8681	8803	7248
20°	8608	8452	8608	7264
25°	8222	8120	8222	7109
30°	7725	7845	7725	6772
35°	6877	7496	6877	6400
40°	5721	7086	5721	6120
45°	5102	6605	5102	5797
50°	5408	6031	5408	5474
55°	5073	5414	5073	5287
60°	5210	4599	5210	4842
65°	4701	3801	4701	4250
70°	3232	3029	3232	3561
75°	2804	2239	2804	2681
80°	2214	1481	2214	1611
85°	1209	784	1209	666

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7834 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.8	1.1
10°-20°	246.5	3.1
20°-30°	381.0	4.8
30°-40°	454.8	5.7
40°-50°	457.5	5.7
50°-60°	398.1	5.0
60°-70°	282.2	3.5
70°-80°	149.3	1.9
80°-90°	40.4	0.5
90°-100°	412.1	5.2
100°-110°	1083.4	13.6
110°-120°	1123.3	14.1
120°-130°	901.0	11.3
130°-140°	707.0	8.9
140°-150°	542.6	6.8
150°-160°	390.8	4.9
160°-170°	239.1	3.0
170°-180°	80.8	1.0
0°-30°	714.2	9.0
0°-40°	1169.0	14.7
0°-60°	2024.6	25.4
0°-90°	2496.5	31.3
90°-120°	2618.8	32.8
90°-150°	4769.4	59.8
90°-180°	5480.0	68.7
0°-180°	7976.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	962	962	962	962	962	
5°	966	996	966	783	966	92
15°	922	987	922	824	922	260
25°	812	921	812	806	812	373
35°	618	822	618	701	618	382
45°	398	677	398	594	398	319
55°	325	500	325	488	325	298
65°	226	301	226	337	226	216
75°	86	143	86	171	86	90
85°	15	36	15	31	15	20
90°	6	22	6	22	6	5
95°	54	249	54	249	54	60
105°	195	1696	195	1696	195	207
115°	347	2184	347	2184	347	342
125°	482	1740	482	1740	482	428
135°	575	1350	575	1350	575	445
145°	667	1095	667	1095	667	418
155°	754	943	754	943	754	346
165°	813	878	813	878	813	229
175°	845	851	845	851	845	80
180°	845	845	845	845	845	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6
2.5°	969.8	969.8	975.3	977.1	977.1	974.4	971.7	974.4	982.6	985.3	984.4
5°	966.1	973.5	983.5	985.3	987.1	986.2	984.4	986.2	995.3	997.1	998.1
7.5°	958.8	972.6	985.3	988.0	990.8	988.0	987.1	989.0	998.1	999.9	999.9
10°	949.8	968.9	983.5	985.3	988.0	985.3	985.3	989.0	998.1	999.9	1000.8
12.5°	937.0	963.4	977.1	979.0	982.6	981.7	980.8	984.4	993.5	995.3	995.3
15°	922.5	953.4	966.1	967.9	974.4	972.6	972.6	976.2	986.2	989.0	988.0
17.5°	902.5	940.7	955.2	957.9	962.5	961.6	962.5	966.1	975.3	977.1	978.0
20°	879.7	923.4	940.7	943.4	947.9	947.9	947.9	952.5	961.6	965.2	965.2
22.5°	848.8	905.2	923.4	925.2	930.6	930.6	932.5	938.8	947.0	947.9	947.9
25°	812.4	885.2	900.6	906.1	911.5	914.3	917.0	920.6	923.4	922.5	923.4
27.5°	774.2	859.7	879.7	883.3	890.6	893.4	897.0	897.9	898.8	901.5	899.7
30°	731.4	824.2	854.2	857.9	869.7	871.5	867.9	869.7	874.3	876.1	877.9
32.5°	683.2	771.5	827.9	836.0	847.0	841.5	840.6	843.3	850.6	850.6	852.4
35°	617.7	730.5	803.3	810.6	818.8	812.4	816.0	816.9	821.5	824.2	823.3
37.5°	545.9	695.1	777.8	783.3	789.7	781.5	786.9	789.7	793.3	791.5	791.5
40°	482.2	639.6	747.8	751.5	756.9	750.5	756.0	757.8	759.6	757.8	756.9
42.5°	434.9	578.6	716.0	720.5	716.9	721.4	723.3	726.9	724.2	720.5	720.5
45°	398.5	562.2	681.4	686.9	681.4	688.7	691.4	691.4	683.2	681.4	680.5
47.5°	386.7	529.5	646.8	646.8	644.1	653.2	657.8	651.4	643.2	640.5	640.5
50°	385.8	493.1	599.5	595.9	608.6	619.6	615.0	608.6	602.3	592.3	592.3
52.5°	350.3	448.5	538.6	552.2	572.3	578.6	571.3	565.0	554.1	549.5	545.9
55°	324.8	402.2	483.1	510.4	531.3	539.5	525.9	519.5	503.1	500.4	498.6
57.5°	319.3	334.8	432.2	466.7	492.2	491.3	483.1	471.3	457.6	454.9	454.0
60°	292.9	242.0	377.6	418.5	444.9	442.2	434.9	424.0	411.2	409.4	407.6
62.5°	265.6	175.6	315.6	362.1	399.4	398.5	392.1	375.8	366.7	362.1	358.5
65°	225.6	147.4	224.7	301.1	354.8	356.7	343.0	331.2	321.1	315.6	314.7
67.5°	171.9	120.1	151.9	251.1	312.0	310.2	292.9	287.4	274.7	272.0	266.5
70°	127.3	80.0	105.5	203.8	270.2	265.6	252.0	245.6	233.8	227.4	223.8
72.5°	105.5	64.6	77.3	158.3	227.4	222.0	210.1	202.8	192.8	187.4	183.7
75°	85.5	68.2	59.1	117.3	184.7	181.0	170.1	162.8	154.6	147.4	148.3
77.5°	62.8	63.7	47.3	86.4	146.5	141.0	134.6	125.5	121.9	114.6	114.6
80°	47.3	50.0	35.5	59.1	105.5	105.5	100.1	93.7	87.3	83.7	83.7
82.5°	31.8	31.8	26.4	37.3	71.9	69.1	65.5	63.7	60.0	58.2	58.2
85°	14.6	18.2	16.4	22.7	39.1	40.9	40.9	39.1	38.2	36.4	37.3
87.5°	4.5	8.2	10.0	12.7	20.0	20.9	21.8	21.8	21.8	22.7	22.7
90°	5.6	10.2	14.7	15.9	25.0	37.1	43.1	38.3	28.7	21.6	21.6
92.5°	22.6	61.2	99.9	109.5	153.9	213.1	242.8	212.8	152.8	107.8	103.5
95°	54.5	125.1	195.7	213.3	378.8	599.5	709.8	633.4	480.6	365.9	352.9
97.5°	94.1	156.5	218.8	234.3	510.2	878.2	1062.1	1013.8	917.2	844.8	820.0
100°	124.8	181.3	237.8	251.9	558.1	966.3	1170.4	1174.0	1181.1	1186.3	1156.9
102.5°	150.9	203.7	256.3	269.5	580.1	994.1	1201.1	1262.6	1385.7	1478.0	1452.8
105°	195.2	239.9	284.4	295.6	596.3	997.1	1197.6	1335.5	1611.4	1818.4	1804.8
107.5°	240.6	282.2	323.8	334.2	599.4	952.8	1129.6	1322.0	1706.8	1995.4	1998.7
110°	271.2	308.7	346.4	355.8	594.8	913.5	1072.8	1288.0	1718.1	2040.8	2054.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	301.3	337.1	373.0	381.9	595.0	879.2	1021.2	1241.4	1681.6	2011.8	2033.5
115°	346.7	379.7	412.7	421.0	600.5	839.8	959.4	1171.4	1595.6	1913.7	1943.8
117.5°	391.5	421.5	451.5	459.0	611.6	815.1	916.8	1108.2	1491.0	1778.1	1811.5
120°	417.5	445.8	474.0	481.1	620.6	806.8	899.8	1074.6	1424.4	1686.7	1719.1
122.5°	443.1	471.6	500.1	507.2	633.7	802.5	886.8	1044.3	1359.2	1595.4	1627.3
125°	482.3	508.2	534.2	540.7	651.3	798.8	872.6	1006.3	1273.9	1474.5	1504.0
127.5°	514.0	540.2	566.4	573.0	668.9	796.8	860.7	975.6	1205.3	1377.6	1402.4
130°	531.0	559.2	587.4	594.5	681.8	798.0	856.2	958.4	1162.9	1316.2	1339.2
132.5°	548.6	576.9	605.1	612.2	692.1	798.8	852.1	943.7	1126.8	1264.0	1284.6
135°	574.7	600.5	626.1	632.6	703.5	798.0	845.3	922.0	1075.3	1190.3	1208.0
137.5°	601.4	626.8	652.3	658.7	720.5	803.0	844.2	909.0	1038.6	1135.9	1150.3
140°	623.6	647.0	670.5	676.3	731.0	803.8	840.2	896.2	1008.2	1092.1	1105.7
142.5°	640.6	662.2	683.9	689.3	739.6	806.7	840.2	889.4	987.8	1061.5	1073.2
145°	666.7	685.6	704.4	709.2	751.0	806.8	834.6	874.8	955.2	1015.5	1024.3
147.5°	692.7	711.2	729.5	734.2	767.6	812.3	834.6	866.2	929.5	977.0	984.2
150°	709.8	726.4	743.0	747.2	776.3	815.1	834.6	861.3	914.7	954.8	960.8
152.5°	727.3	740.0	752.5	755.7	782.0	817.0	834.6	857.4	903.1	937.3	941.7
155°	753.5	762.8	772.1	774.5	794.5	821.2	834.6	852.8	889.1	916.3	919.3
157.5°	772.7	781.8	790.8	793.1	806.9	825.4	834.6	848.7	876.9	898.1	900.2
160°	785.7	792.8	799.9	801.7	812.7	827.3	834.6	846.7	870.9	889.0	890.2
162.5°	798.8	804.1	809.4	810.8	818.7	829.3	834.6	844.8	865.2	880.5	881.6
165°	813.0	817.8	822.6	823.8	827.4	832.2	834.6	841.9	856.5	867.4	868.6
167.5°	826.0	828.3	830.6	831.1	834.1	838.2	840.2	845.1	854.6	861.8	862.3
170°	834.6	836.9	839.1	839.7	839.9	840.1	840.2	845.1	854.6	861.8	861.8
172.5°	839.1	839.6	840.1	840.2	840.2	840.2	840.2	844.1	851.6	857.2	856.8
175°	845.3	845.3	845.3	845.3	843.6	841.3	840.2	842.6	847.4	851.1	851.1
177.5°	845.3	845.3	845.3	845.3	844.1	842.3	841.4	843.3	847.1	849.9	849.3
180°	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6
2.5°	986.2	983.5	986.2	984.4	985.3	982.6	974.4	971.7	974.4	977.1	977.1
5°	998.1	996.2	998.1	998.1	997.1	995.3	986.2	984.4	986.2	987.1	985.3
7.5°	1001.7	999.0	1001.7	999.9	999.9	998.1	989.0	987.1	988.0	990.8	988.0
10°	1001.7	999.0	1001.7	1000.8	999.9	998.1	989.0	985.3	985.3	988.0	985.3
12.5°	997.1	995.3	997.1	995.3	995.3	993.5	984.4	980.8	981.7	982.6	979.0
15°	989.9	987.1	989.9	988.0	989.0	986.2	976.2	972.6	972.6	974.4	967.9
17.5°	979.0	975.3	979.0	978.0	977.1	975.3	966.1	962.5	961.6	962.5	957.9
20°	966.1	963.4	966.1	965.2	965.2	961.6	952.5	947.9	947.9	947.9	943.4
22.5°	946.1	943.4	946.1	947.9	947.9	947.0	938.8	932.5	930.6	930.6	925.2
25°	923.4	920.6	923.4	923.4	922.5	923.4	920.6	917.0	914.3	911.5	906.1
27.5°	901.5	899.7	901.5	899.7	901.5	898.8	897.9	897.0	893.4	890.6	883.3
30°	879.7	877.9	879.7	877.9	876.1	874.3	869.7	867.9	871.5	869.7	857.9
32.5°	852.4	850.6	852.4	852.4	850.6	850.6	843.3	840.6	841.5	847.0	836.0
35°	824.2	821.5	824.2	823.3	824.2	821.5	816.9	816.0	812.4	818.8	810.6
37.5°	791.5	788.7	791.5	791.5	791.5	793.3	789.7	786.9	781.5	789.7	783.3
40°	757.8	754.2	757.8	756.9	757.8	759.6	757.8	756.0	750.5	756.9	751.5
42.5°	719.6	718.7	719.6	720.5	720.5	724.2	726.9	723.3	721.4	716.9	720.5
45°	678.7	676.9	678.7	680.5	681.4	683.2	691.4	691.4	688.7	681.4	686.9
47.5°	635.0	630.5	635.0	640.5	640.5	643.2	651.4	657.8	653.2	644.1	646.8
50°	588.6	589.5	588.6	592.3	592.3	602.3	608.6	615.0	619.6	608.6	595.9
52.5°	543.1	542.2	543.1	545.9	549.5	554.1	565.0	571.3	578.6	572.3	552.2
55°	497.7	499.5	497.7	498.6	500.4	503.1	519.5	525.9	539.5	531.3	510.4
57.5°	452.2	449.5	452.2	454.0	454.9	457.6	471.3	483.1	491.3	492.2	466.7
60°	399.4	395.8	399.4	407.6	409.4	411.2	424.0	434.9	442.2	444.9	418.5
62.5°	353.0	346.7	353.0	358.5	362.1	366.7	375.8	392.1	398.5	399.4	362.1
65°	303.8	301.1	303.8	314.7	315.6	321.1	331.2	343.0	356.7	354.8	301.1
67.5°	259.2	259.2	259.2	266.5	272.0	274.7	287.4	292.9	310.2	312.0	251.1
70°	218.3	217.4	218.3	223.8	227.4	233.8	245.6	252.0	265.6	270.2	203.8
72.5°	179.2	178.3	179.2	183.7	187.4	192.8	202.8	210.1	222.0	227.4	158.3
75°	144.6	142.8	144.6	148.3	147.4	154.6	162.8	170.1	181.0	184.7	117.3
77.5°	111.0	111.0	111.0	114.6	114.6	121.9	125.5	134.6	141.0	146.5	86.4
80°	82.8	81.9	82.8	83.7	83.7	87.3	93.7	100.1	105.5	105.5	59.1
82.5°	58.2	56.4	58.2	58.2	58.2	60.0	63.7	65.5	69.1	71.9	37.3
85°	36.4	36.4	36.4	37.3	36.4	38.2	39.1	40.9	40.9	39.1	22.7
87.5°	23.7	22.7	23.7	22.7	22.7	21.8	21.8	21.8	20.9	20.0	12.7
90°	21.6	21.6	21.6	21.6	21.6	28.7	38.3	43.1	37.1	25.0	15.9
92.5°	86.3	69.2	86.3	103.5	107.8	152.8	212.8	242.8	213.1	153.9	109.5
95°	301.0	249.1	301.0	352.9	365.9	480.6	633.4	709.8	599.5	378.8	213.3
97.5°	721.3	622.4	721.3	820.0	844.8	917.2	1013.8	1062.1	878.2	510.2	234.3
100°	1039.2	921.4	1039.2	1156.9	1186.3	1181.1	1174.0	1170.4	966.3	558.1	251.9
102.5°	1351.9	1251.0	1351.9	1452.8	1478.0	1385.7	1262.6	1201.1	994.1	580.1	269.5
105°	1750.6	1696.4	1750.6	1804.8	1818.4	1611.4	1335.5	1197.6	997.1	596.3	295.6
107.5°	2011.8	2024.9	2011.8	1998.7	1995.4	1706.8	1322.0	1129.6	952.8	599.4	334.2
110°	2111.4	2167.8	2111.4	2054.9	2040.8	1718.1	1288.0	1072.8	913.5	594.8	355.8





TEST NUMBER: P935934

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2120.3	2207.0	2120.3	2033.5	2011.8	1681.6	1241.4	1021.2	879.2	595.0	381.9
115°	2064.1	2184.3	2064.1	1943.8	1913.7	1595.6	1171.4	959.4	839.8	600.5	421.0
117.5°	1944.8	2078.2	1944.8	1811.5	1778.1	1491.0	1108.2	916.8	815.1	611.6	459.0
120°	1848.7	1978.4	1848.7	1719.1	1686.7	1424.4	1074.6	899.8	806.8	620.6	481.1
122.5°	1755.2	1883.0	1755.2	1627.3	1595.4	1359.2	1044.3	886.8	802.5	633.7	507.2
125°	1621.7	1739.5	1621.7	1504.0	1474.5	1273.9	1006.3	872.6	798.8	651.3	540.7
127.5°	1501.7	1601.1	1501.7	1402.4	1377.6	1205.3	975.6	860.7	796.8	668.9	573.0
130°	1430.9	1522.7	1430.9	1339.2	1316.2	1162.9	958.4	856.2	798.0	681.8	594.5
132.5°	1366.7	1449.0	1366.7	1284.6	1264.0	1126.8	943.7	852.1	798.8	692.1	612.2
135°	1278.9	1349.7	1278.9	1208.0	1190.3	1075.3	922.0	845.3	798.0	703.5	632.6
137.5°	1208.4	1266.3	1208.4	1150.3	1135.9	1038.6	909.0	844.2	803.0	720.5	658.7
140°	1159.9	1214.1	1159.9	1105.7	1092.1	1008.2	896.2	840.2	803.8	731.0	676.3
142.5°	1119.9	1166.4	1119.9	1073.2	1061.5	987.8	889.4	840.2	806.7	739.6	689.3
145°	1059.7	1095.0	1059.7	1024.3	1015.5	955.2	874.8	834.6	806.8	751.0	709.2
147.5°	1013.5	1042.8	1013.5	984.2	977.0	929.5	866.2	834.6	812.3	767.6	734.2
150°	984.5	1008.2	984.5	960.8	954.8	914.7	861.3	834.6	815.1	776.3	747.2
152.5°	959.7	977.5	959.7	941.7	937.3	903.1	857.4	834.6	817.0	782.0	755.7
155°	931.1	942.9	931.1	919.3	916.3	889.1	852.8	834.6	821.2	794.5	774.5
157.5°	908.5	916.8	908.5	900.2	898.1	876.9	848.7	834.6	825.4	806.9	793.1
160°	895.0	899.8	895.0	890.2	889.0	870.9	846.7	834.6	827.3	812.7	801.7
162.5°	886.2	890.7	886.2	881.6	880.5	865.2	844.8	834.6	829.3	818.7	810.8
165°	873.4	878.3	873.4	868.6	867.4	856.5	841.9	834.6	832.2	827.4	823.8
167.5°	864.3	866.3	864.3	862.3	861.8	854.6	845.1	840.2	838.2	834.1	831.1
170°	861.8	861.8	861.8	861.8	861.8	854.6	845.1	840.2	840.1	839.9	839.7
172.5°	855.1	853.3	855.1	856.8	857.2	851.6	844.1	840.2	840.2	840.2	840.2
175°	851.1	851.1	851.1	851.1	851.1	847.4	842.6	840.2	841.3	843.6	845.3
177.5°	847.3	845.3	847.3	849.3	849.9	847.1	843.3	841.4	842.3	844.1	845.3
180°	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3



TEST NUMBER: P935934

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6
2.5°	975.3	969.8	969.8	960.7	957.0	954.3	949.8	936.1	932.5	928.8	934.3
5°	983.5	973.5	966.1	949.8	936.1	930.6	913.4	880.6	858.8	842.4	833.3
7.5°	985.3	972.6	958.8	933.4	900.6	886.1	833.3	773.3	756.9	742.4	733.3
10°	983.5	968.9	949.8	911.5	834.2	808.8	756.0	716.9	706.9	704.2	706.9
12.5°	977.1	963.4	937.0	873.3	765.1	747.8	716.9	694.1	692.3	696.9	721.4
15°	966.1	953.4	922.5	822.4	726.9	714.2	692.3	684.1	694.1	726.0	799.7
17.5°	955.2	940.7	902.5	772.4	697.8	688.7	673.2	689.6	746.0	788.7	813.3
20°	940.7	923.4	879.7	736.0	676.9	668.7	661.4	735.1	777.8	793.3	806.9
22.5°	923.4	905.2	848.8	710.5	655.0	648.7	653.2	760.5	777.8	788.7	800.6
25°	900.6	885.2	812.4	690.5	637.7	630.5	647.8	757.8	767.8	770.6	794.2
27.5°	879.7	859.7	774.2	672.3	616.8	614.1	652.3	746.0	753.3	756.0	781.5
30°	854.2	824.2	731.4	653.2	595.0	594.1	653.2	731.4	729.6	736.9	762.4
32.5°	827.9	771.5	683.2	629.6	574.1	573.2	646.8	709.6	707.8	717.8	736.9
35°	803.3	730.5	617.7	602.3	547.7	548.6	631.4	684.1	685.0	694.1	706.0
37.5°	777.8	695.1	545.9	572.3	522.2	522.2	610.5	660.5	658.7	661.4	677.8
40°	747.8	639.6	482.2	533.1	498.6	495.8	585.0	635.0	628.7	627.7	650.5
42.5°	716.0	578.6	434.9	481.3	471.3	467.6	554.1	604.1	592.3	595.0	624.1
45°	681.4	562.2	398.5	406.7	443.1	440.4	520.4	568.6	560.4	567.7	597.7
47.5°	646.8	529.5	386.7	337.6	413.1	412.2	483.1	534.0	529.5	536.8	568.6
50°	599.5	493.1	385.8	289.3	379.4	383.0	438.5	500.4	500.4	506.8	540.4
52.5°	538.6	448.5	350.3	262.0	340.3	351.2	399.4	471.3	473.1	479.5	509.5
55°	483.1	402.2	324.8	241.1	293.8	317.5	361.2	441.3	444.9	451.3	478.6
57.5°	432.2	334.8	319.3	216.5	251.1	273.8	327.6	412.2	414.0	419.4	445.8
60°	377.6	242.0	292.9	190.1	213.8	231.0	296.5	377.6	384.0	387.6	410.3
62.5°	315.6	175.6	265.6	171.9	195.6	199.2	271.1	344.8	353.0	355.8	369.4
65°	224.7	147.4	225.6	156.5	176.5	177.4	243.8	311.1	318.4	322.9	333.0
67.5°	151.9	120.1	171.9	141.9	161.9	162.8	217.4	272.0	282.0	285.6	292.0
70°	105.5	80.0	127.3	126.4	145.5	147.4	189.2	236.5	245.6	248.3	252.0
72.5°	77.3	64.6	105.5	113.7	128.3	130.1	160.1	196.5	205.6	208.3	210.1
75°	59.1	68.2	85.5	99.2	109.2	110.1	131.0	160.1	166.5	168.3	169.2
77.5°	47.3	63.7	62.8	80.0	89.1	87.3	102.8	123.7	129.2	129.2	129.2
80°	35.5	50.0	47.3	57.3	65.5	63.7	73.7	88.2	90.1	91.9	91.0
82.5°	26.4	31.8	31.8	36.4	43.7	41.8	49.1	57.3	57.3	57.3	59.1
85°	16.4	18.2	14.6	19.1	24.6	23.7	27.3	30.9	31.8	31.8	30.0
87.5°	10.0	8.2	4.5	7.3	10.9	10.9	12.7	13.6	12.7	12.7	12.7
90°	14.7	10.2	5.6	10.2	14.7	15.9	25.0	37.1	43.1	38.3	28.7
92.5°	99.9	61.2	22.6	61.2	99.9	109.5	153.9	213.1	242.8	212.8	152.8
95°	195.7	125.1	54.5	125.1	195.7	213.3	378.8	599.5	709.8	633.4	480.6
97.5°	218.8	156.5	94.1	156.5	218.8	234.3	510.2	878.2	1062.1	1013.8	917.2
100°	237.8	181.3	124.8	181.3	237.8	251.9	558.1	966.3	1170.4	1174.0	1181.1
102.5°	256.3	203.7	150.9	203.7	256.3	269.5	580.1	994.1	1201.1	1262.6	1385.7
105°	284.4	239.9	195.2	239.9	284.4	295.6	596.3	997.1	1197.6	1335.5	1611.4
107.5°	323.8	282.2	240.6	282.2	323.8	334.2	599.4	952.8	1129.6	1322.0	1706.8
110°	346.4	308.7	271.2	308.7	346.4	355.8	594.8	913.5	1072.8	1288.0	1718.1



TEST NUMBER: P935934

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	373.0	337.1	301.3	337.1	373.0	381.9	595.0	879.2	1021.2	1241.4	1681.6
115°	412.7	379.7	346.7	379.7	412.7	421.0	600.5	839.8	959.4	1171.4	1595.6
117.5°	451.5	421.5	391.5	421.5	451.5	459.0	611.6	815.1	916.8	1108.2	1491.0
120°	474.0	445.8	417.5	445.8	474.0	481.1	620.6	806.8	899.8	1074.6	1424.4
122.5°	500.1	471.6	443.1	471.6	500.1	507.2	633.7	802.5	886.8	1044.3	1359.2
125°	534.2	508.2	482.3	508.2	534.2	540.7	651.3	798.8	872.6	1006.3	1273.9
127.5°	566.4	540.2	514.0	540.2	566.4	573.0	668.9	796.8	860.7	975.6	1205.3
130°	587.4	559.2	531.0	559.2	587.4	594.5	681.8	798.0	856.2	958.4	1162.9
132.5°	605.1	576.9	548.6	576.9	605.1	612.2	692.1	798.8	852.1	943.7	1126.8
135°	626.1	600.5	574.7	600.5	626.1	632.6	703.5	798.0	845.3	922.0	1075.3
137.5°	652.3	626.8	601.4	626.8	652.3	658.7	720.5	803.0	844.2	909.0	1038.6
140°	670.5	647.0	623.6	647.0	670.5	676.3	731.0	803.8	840.2	896.2	1008.2
142.5°	683.9	662.2	640.6	662.2	683.9	689.3	739.6	806.7	840.2	889.4	987.8
145°	704.4	685.6	666.7	685.6	704.4	709.2	751.0	806.8	834.6	874.8	955.2
147.5°	729.5	711.2	692.7	711.2	729.5	734.2	767.6	812.3	834.6	866.2	929.5
150°	743.0	726.4	709.8	726.4	743.0	747.2	776.3	815.1	834.6	861.3	914.7
152.5°	752.5	740.0	727.3	740.0	752.5	755.7	782.0	817.0	834.6	857.4	903.1
155°	772.1	762.8	753.5	762.8	772.1	774.5	794.5	821.2	834.6	852.8	889.1
157.5°	790.8	781.8	772.7	781.8	790.8	793.1	806.9	825.4	834.6	848.7	876.9
160°	799.9	792.8	785.7	792.8	799.9	801.7	812.7	827.3	834.6	846.7	870.9
162.5°	809.4	804.1	798.8	804.1	809.4	810.8	818.7	829.3	834.6	844.8	865.2
165°	822.6	817.8	813.0	817.8	822.6	823.8	827.4	832.2	834.6	841.9	856.5
167.5°	830.6	828.3	826.0	828.3	830.6	831.1	834.1	838.2	840.2	845.1	854.6
170°	839.1	836.9	834.6	836.9	839.1	839.7	839.9	840.1	840.2	845.1	854.6
172.5°	840.1	839.6	839.1	839.6	840.1	840.2	840.2	840.2	840.2	844.1	851.6
175°	845.3	845.3	845.3	845.3	845.3	845.3	843.6	841.3	840.2	842.6	847.4
177.5°	845.3	845.3	845.3	845.3	845.3	845.3	844.1	842.3	841.4	843.3	847.1
180°	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3



TEST NUMBER: P935934

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6	961.6
2.5°	927.9	925.2	928.8	918.8	928.8	925.2	927.9	934.3	928.8	932.5	936.1
5°	814.2	809.7	795.1	783.3	795.1	809.7	814.2	833.3	842.4	858.8	880.6
7.5°	727.8	724.2	720.5	713.2	720.5	724.2	727.8	733.3	742.4	756.9	773.3
10°	708.7	709.6	715.1	714.2	715.1	709.6	708.7	706.9	704.2	706.9	716.9
12.5°	757.8	766.0	796.0	794.2	796.0	766.0	757.8	721.4	696.9	692.3	694.1
15°	814.2	816.9	823.3	824.2	823.3	816.9	814.2	799.7	726.0	694.1	684.1
17.5°	819.7	820.6	825.1	825.1	825.1	820.6	819.7	813.3	788.7	746.0	689.6
20°	815.1	816.9	826.0	827.9	826.0	816.9	815.1	806.9	793.3	777.8	735.1
22.5°	813.3	816.9	824.2	823.3	824.2	816.9	813.3	800.6	788.7	777.8	760.5
25°	804.2	804.2	805.1	806.0	805.1	804.2	804.2	794.2	770.6	767.8	757.8
27.5°	785.1	786.9	792.4	791.5	792.4	786.9	785.1	781.5	756.0	753.3	746.0
30°	767.8	766.0	761.5	757.8	761.5	766.0	767.8	762.4	736.9	729.6	731.4
32.5°	738.7	734.2	729.6	726.9	729.6	734.2	738.7	736.9	717.8	707.8	709.6
35°	704.2	705.1	704.2	701.4	704.2	705.1	704.2	706.0	694.1	685.0	684.1
37.5°	679.6	681.4	680.5	676.9	680.5	681.4	679.6	677.8	661.4	658.7	660.5
40°	654.1	655.0	654.1	651.4	654.1	655.0	654.1	650.5	627.7	628.7	635.0
42.5°	629.6	628.7	625.9	624.1	625.9	628.7	629.6	624.1	595.0	592.3	604.1
45°	601.4	602.3	596.8	594.1	596.8	602.3	601.4	597.7	567.7	560.4	568.6
47.5°	573.2	573.2	568.6	565.9	568.6	573.2	573.2	568.6	536.8	529.5	534.0
50°	543.1	542.2	535.9	535.0	535.9	542.2	543.1	540.4	506.8	500.4	500.4
52.5°	508.6	508.6	509.5	511.3	509.5	508.6	508.6	509.5	479.5	473.1	471.3
55°	478.6	479.5	485.8	487.7	485.8	479.5	478.6	478.6	451.3	444.9	441.3
57.5°	447.6	447.6	452.2	452.2	452.2	447.6	447.6	445.8	419.4	414.0	412.2
60°	412.2	414.0	417.6	416.7	417.6	414.0	412.2	410.3	387.6	384.0	377.6
62.5°	374.9	376.7	377.6	375.8	377.6	376.7	374.9	369.4	355.8	353.0	344.8
65°	335.7	337.6	338.5	336.7	338.5	337.6	335.7	333.0	322.9	318.4	311.1
67.5°	295.6	294.7	293.8	297.5	293.8	294.7	295.6	292.0	285.6	282.0	272.0
70°	254.7	254.7	253.8	255.6	253.8	254.7	254.7	252.0	248.3	245.6	236.5
72.5°	211.0	210.1	213.8	211.0	213.8	210.1	211.0	210.1	208.3	205.6	196.5
75°	168.3	170.1	168.3	171.0	168.3	170.1	168.3	169.2	168.3	166.5	160.1
77.5°	128.3	130.1	128.3	128.3	128.3	130.1	128.3	129.2	129.2	129.2	123.7
80°	91.0	90.1	90.1	89.1	90.1	90.1	91.0	91.0	91.9	90.1	88.2
82.5°	58.2	57.3	57.3	59.1	57.3	57.3	58.2	59.1	57.3	57.3	57.3
85°	31.8	32.7	30.9	30.9	30.9	32.7	31.8	30.0	31.8	31.8	30.9
87.5°	11.8	10.9	10.9	10.9	10.9	10.9	11.8	12.7	12.7	12.7	13.6
90°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	28.7	38.3	43.1	37.1
92.5°	107.8	103.5	86.3	69.2	86.3	103.5	107.8	152.8	212.8	242.8	213.1
95°	365.9	352.9	301.0	249.1	301.0	352.9	365.9	480.6	633.4	709.8	599.5
97.5°	844.8	820.0	721.3	622.4	721.3	820.0	844.8	917.2	1013.8	1062.1	878.2
100°	1186.3	1156.9	1039.2	921.4	1039.2	1156.9	1186.3	1181.1	1174.0	1170.4	966.3
102.5°	1478.0	1452.8	1351.9	1251.0	1351.9	1452.8	1478.0	1385.7	1262.6	1201.1	994.1
105°	1818.4	1804.8	1750.6	1696.4	1750.6	1804.8	1818.4	1611.4	1335.5	1197.6	997.1
107.5°	1995.4	1998.7	2011.8	2024.9	2011.8	1998.7	1995.4	1706.8	1322.0	1129.6	952.8
110°	2040.8	2054.9	2111.4	2167.8	2111.4	2054.9	2040.8	1718.1	1288.0	1072.8	913.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2011.8	2033.5	2120.3	2207.0	2120.3	2033.5	2011.8	1681.6	1241.4	1021.2	879.2
115°	1913.7	1943.8	2064.1	2184.3	2064.1	1943.8	1913.7	1595.6	1171.4	959.4	839.8
117.5°	1778.1	1811.5	1944.8	2078.2	1944.8	1811.5	1778.1	1491.0	1108.2	916.8	815.1
120°	1686.7	1719.1	1848.7	1978.4	1848.7	1719.1	1686.7	1424.4	1074.6	899.8	806.8
122.5°	1595.4	1627.3	1755.2	1883.0	1755.2	1627.3	1595.4	1359.2	1044.3	886.8	802.5
125°	1474.5	1504.0	1621.7	1739.5	1621.7	1504.0	1474.5	1273.9	1006.3	872.6	798.8
127.5°	1377.6	1402.4	1501.7	1601.1	1501.7	1402.4	1377.6	1205.3	975.6	860.7	796.8
130°	1316.2	1339.2	1430.9	1522.7	1430.9	1339.2	1316.2	1162.9	958.4	856.2	798.0
132.5°	1264.0	1284.6	1366.7	1449.0	1366.7	1284.6	1264.0	1126.8	943.7	852.1	798.8
135°	1190.3	1208.0	1278.9	1349.7	1278.9	1208.0	1190.3	1075.3	922.0	845.3	798.0
137.5°	1135.9	1150.3	1208.4	1266.3	1208.4	1150.3	1135.9	1038.6	909.0	844.2	803.0
140°	1092.1	1105.7	1159.9	1214.1	1159.9	1105.7	1092.1	1008.2	896.2	840.2	803.8
142.5°	1061.5	1073.2	1119.9	1166.4	1119.9	1073.2	1061.5	987.8	889.4	840.2	806.7
145°	1015.5	1024.3	1059.7	1095.0	1059.7	1024.3	1015.5	955.2	874.8	834.6	806.8
147.5°	977.0	984.2	1013.5	1042.8	1013.5	984.2	977.0	929.5	866.2	834.6	812.3
150°	954.8	960.8	984.5	1008.2	984.5	960.8	954.8	914.7	861.3	834.6	815.1
152.5°	937.3	941.7	959.7	977.5	959.7	941.7	937.3	903.1	857.4	834.6	817.0
155°	916.3	919.3	931.1	942.9	931.1	919.3	916.3	889.1	852.8	834.6	821.2
157.5°	898.1	900.2	908.5	916.8	908.5	900.2	898.1	876.9	848.7	834.6	825.4
160°	889.0	890.2	895.0	899.8	895.0	890.2	889.0	870.9	846.7	834.6	827.3
162.5°	880.5	881.6	886.2	890.7	886.2	881.6	880.5	865.2	844.8	834.6	829.3
165°	867.4	868.6	873.4	878.3	873.4	868.6	867.4	856.5	841.9	834.6	832.2
167.5°	861.8	862.3	864.3	866.3	864.3	862.3	861.8	854.6	845.1	840.2	838.2
170°	861.8	861.8	861.8	861.8	861.8	861.8	861.8	854.6	845.1	840.2	840.1
172.5°	857.2	856.8	855.1	853.3	855.1	856.8	857.2	851.6	844.1	840.2	840.2
175°	851.1	851.1	851.1	851.1	851.1	851.1	851.1	847.4	842.6	840.2	841.3
177.5°	849.9	849.3	847.3	845.3	847.3	849.3	849.9	847.1	843.3	841.4	842.3
180°	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3



TEST NUMBER: P935934

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	961.6	961.6	961.6	961.6	961.6
2.5°	949.8	954.3	957.0	960.7	969.8
5°	913.4	930.6	936.1	949.8	966.1
7.5°	833.3	886.1	900.6	933.4	958.8
10°	756.0	808.8	834.2	911.5	949.8
12.5°	716.9	747.8	765.1	873.3	937.0
15°	692.3	714.2	726.9	822.4	922.5
17.5°	673.2	688.7	697.8	772.4	902.5
20°	661.4	668.7	676.9	736.0	879.7
22.5°	653.2	648.7	655.0	710.5	848.8
25°	647.8	630.5	637.7	690.5	812.4
27.5°	652.3	614.1	616.8	672.3	774.2
30°	653.2	594.1	595.0	653.2	731.4
32.5°	646.8	573.2	574.1	629.6	683.2
35°	631.4	548.6	547.7	602.3	617.7
37.5°	610.5	522.2	522.2	572.3	545.9
40°	585.0	495.8	498.6	533.1	482.2
42.5°	554.1	467.6	471.3	481.3	434.9
45°	520.4	440.4	443.1	406.7	398.5
47.5°	483.1	412.2	413.1	337.6	386.7
50°	438.5	383.0	379.4	289.3	385.8
52.5°	399.4	351.2	340.3	262.0	350.3
55°	361.2	317.5	293.8	241.1	324.8
57.5°	327.6	273.8	251.1	216.5	319.3
60°	296.5	231.0	213.8	190.1	292.9
62.5°	271.1	199.2	195.6	171.9	265.6
65°	243.8	177.4	176.5	156.5	225.6
67.5°	217.4	162.8	161.9	141.9	171.9
70°	189.2	147.4	145.5	126.4	127.3
72.5°	160.1	130.1	128.3	113.7	105.5
75°	131.0	110.1	109.2	99.2	85.5
77.5°	102.8	87.3	89.1	80.0	62.8
80°	73.7	63.7	65.5	57.3	47.3
82.5°	49.1	41.8	43.7	36.4	31.8
85°	27.3	23.7	24.6	19.1	14.6
87.5°	12.7	10.9	10.9	7.3	4.5
90°	25.0	15.9	14.7	10.2	5.6
92.5°	153.9	109.5	99.9	61.2	22.6
95°	378.8	213.3	195.7	125.1	54.5
97.5°	510.2	234.3	218.8	156.5	94.1
100°	558.1	251.9	237.8	181.3	124.8
102.5°	580.1	269.5	256.3	203.7	150.9
105°	596.3	295.6	284.4	239.9	195.2
107.5°	599.4	334.2	323.8	282.2	240.6
110°	594.8	355.8	346.4	308.7	271.2



TEST NUMBER: P935934

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	595.0	381.9	373.0	337.1	301.3
115°	600.5	421.0	412.7	379.7	346.7
117.5°	611.6	459.0	451.5	421.5	391.5
120°	620.6	481.1	474.0	445.8	417.5
122.5°	633.7	507.2	500.1	471.6	443.1
125°	651.3	540.7	534.2	508.2	482.3
127.5°	668.9	573.0	566.4	540.2	514.0
130°	681.8	594.5	587.4	559.2	531.0
132.5°	692.1	612.2	605.1	576.9	548.6
135°	703.5	632.6	626.1	600.5	574.7
137.5°	720.5	658.7	652.3	626.8	601.4
140°	731.0	676.3	670.5	647.0	623.6
142.5°	739.6	689.3	683.9	662.2	640.6
145°	751.0	709.2	704.4	685.6	666.7
147.5°	767.6	734.2	729.5	711.2	692.7
150°	776.3	747.2	743.0	726.4	709.8
152.5°	782.0	755.7	752.5	740.0	727.3
155°	794.5	774.5	772.1	762.8	753.5
157.5°	806.9	793.1	790.8	781.8	772.7
160°	812.7	801.7	799.9	792.8	785.7
162.5°	818.7	810.8	809.4	804.1	798.8
165°	827.4	823.8	822.6	817.8	813.0
167.5°	834.1	831.1	830.6	828.3	826.0
170°	839.9	839.7	839.1	836.9	834.6
172.5°	840.2	840.2	840.1	839.6	839.1
175°	843.6	845.3	845.3	845.3	845.3
177.5°	844.1	845.3	845.3	845.3	845.3
180°	845.3	845.3	845.3	845.3	845.3



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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	10.36	11.07	11.46	12.17	13.69	13.16	13.87	14.26	14.97	16.49
	3H	10.82	11.46	11.94	12.57	14.10	14.48	15.12	15.59	16.23	17.76
	4H	11.01	11.62	12.13	12.72	14.26	14.91	15.52	16.03	16.63	18.16
	6H	11.12	11.68	12.25	12.79	14.34	15.18	15.74	16.31	16.85	18.40
	8H	11.12	11.65	12.25	12.78	14.32	15.25	15.78	16.38	16.90	18.45
	12H	11.08	11.59	12.22	12.71	14.27	15.27	15.78	16.41	16.90	18.47
4H	2H	11.37	11.97	12.49	13.08	14.62	13.55	14.16	14.68	15.26	16.80
	3H	12.38	12.88	13.51	14.02	15.57	15.03	15.54	16.16	16.67	18.22
	4H	12.65	13.11	13.79	14.24	15.81	15.54	16.01	16.68	17.13	18.70
	6H	12.76	13.16	13.91	14.31	15.87	15.89	16.29	17.04	17.44	19.00
	8H	12.77	13.14	13.91	14.28	15.86	15.99	16.36	17.14	17.50	19.08
	12H	12.73	13.06	13.89	14.21	15.80	16.04	16.37	17.20	17.52	19.11
8H	4H	13.08	13.46	14.23	14.59	16.17	15.66	16.03	16.80	17.17	18.75
	6H	13.34	13.65	14.50	14.83	16.40	16.08	16.39	17.25	17.57	19.14
	8H	13.38	13.65	14.55	14.81	16.40	16.23	16.49	17.40	17.65	19.25
	12H	13.36	13.59	14.53	14.75	16.38	16.31	16.55	17.49	17.70	19.33
12H	4H	13.08	13.42	14.24	14.57	16.15	15.62	15.95	16.78	17.10	18.69
	6H	13.40	13.67	14.57	14.83	16.42	16.08	16.35	17.25	17.50	19.10
	8H	13.46	13.69	14.63	14.85	16.48	16.23	16.46	17.40	17.62	19.25