

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: P935559

Luminaire Tested: SQ4-FA-125U-075D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

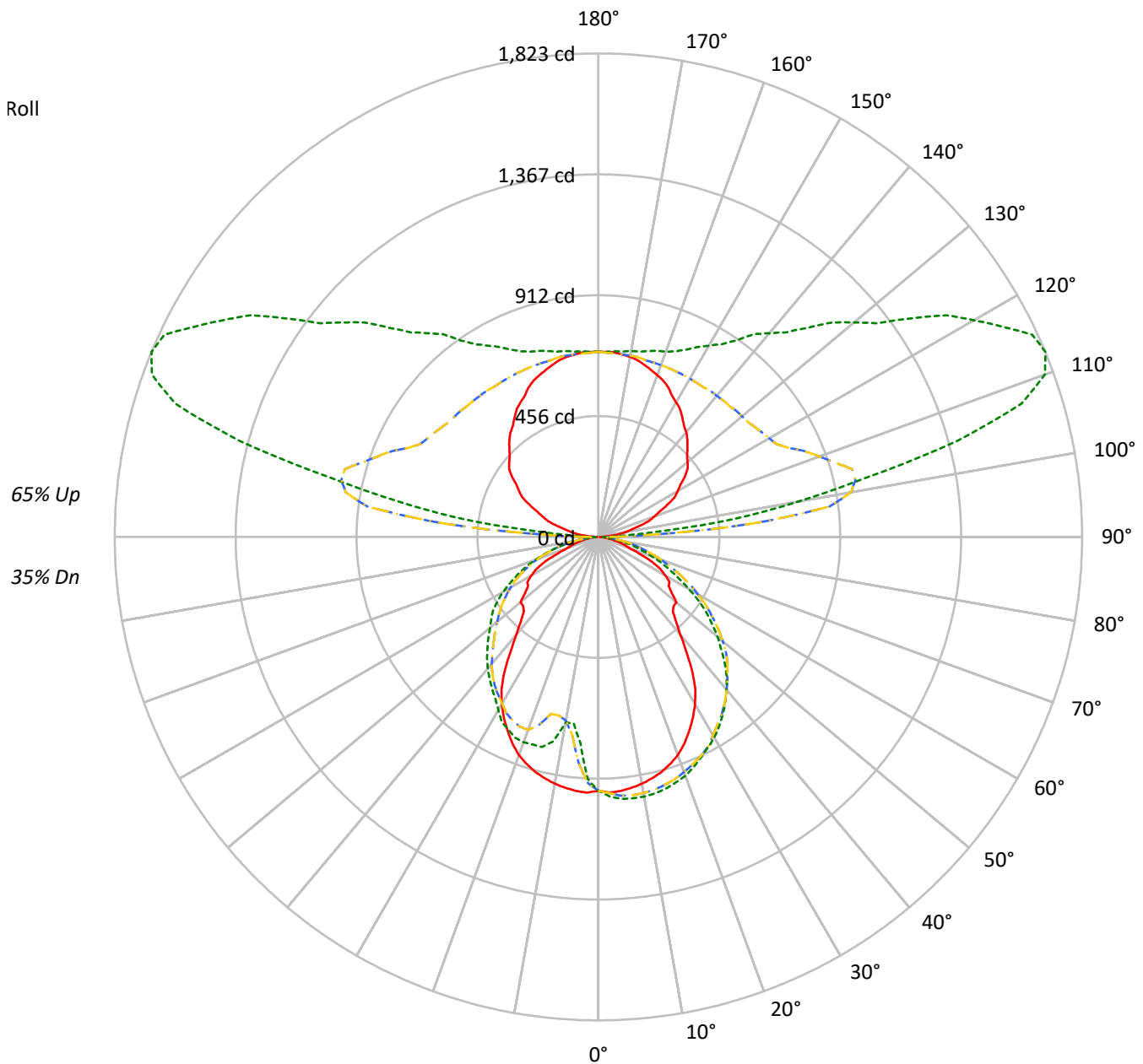
Test Method: LM-79-2019  
Report Number: P935559  
REPORT IS A COMBINATION OF REPORTS P933758 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-075D-93050-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7010.4 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 55.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P935559  
CATALOG NUMBER: SQ4-FA-125U-075D-93050-1D-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	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	66	62	58	54	51	45	43	41	33	32	30	25
3	78	69	62	56	71	63	57	52	51	47	43	40	37	34	29	28	26	21
4	72	61	54	48	65	56	49	44	45	40	36	35	32	29	26	24	22	18
5	66	54	46	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16
6	60	49	41	35	54	44	37	32	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

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

	0°	90°	180°	270°
0°	8878	8878	8878	8878
5°	8936	8963	8936	7047
10°	8866	8829	8866	6312
15°	8759	8638	8759	7213
20°	8566	8411	8566	7228
25°	8181	8080	8181	7075
30°	7687	7806	7687	6738
35°	6843	7459	6843	6369
40°	5692	7051	5692	6090
45°	5078	6572	5078	5769
50°	5382	6002	5382	5446
55°	5048	5387	5048	5261
60°	5185	4576	5185	4818
65°	4678	3782	4678	4229
70°	3217	3013	3217	3544
75°	2791	2228	2791	2668
80°	2204	1474	2204	1604
85°	1201	780	1201	664

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7796 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.4	1.2
10°-20°	245.2	3.5
20°-30°	379.1	5.4
30°-40°	452.6	6.5
40°-50°	455.2	6.5
50°-60°	396.1	5.7
60°-70°	280.8	4.0
70°-80°	148.6	2.1
80°-90°	39.7	0.6
90°-100°	340.4	4.9
100°-110°	894.9	12.8
110°-120°	927.9	13.2
120°-130°	744.3	10.6
130°-140°	584.0	8.3
140°-150°	448.2	6.4
150°-160°	322.8	4.6
160°-170°	197.5	2.8
170°-180°	66.7	1.0
0°-30°	710.7	10.1
0°-40°	1163.3	16.6
0°-60°	2014.6	28.7
0°-90°	2483.7	35.4
90°-120°	2163.2	30.9
90°-150°	3939.7	56.2
90°-180°	4527.0	64.6
0°-180°	7010.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	957	957	957	957	957	
5°	961	991	961	779	961	91
15°	918	982	918	820	918	258
25°	808	916	808	802	808	371
35°	615	818	615	698	615	380
45°	397	674	397	591	397	318
55°	323	497	323	485	323	297
65°	224	300	224	335	224	215
75°	85	142	85	170	85	89
85°	14	36	14	31	14	20
90°	5	18	5	18	5	4
95°	45	206	45	206	45	50
105°	161	1401	161	1401	161	171
115°	286	1804	286	1804	286	283
125°	398	1437	398	1437	398	354
135°	475	1115	475	1115	475	367
145°	551	904	551	904	551	345
155°	622	779	622	779	622	286
165°	672	726	672	726	672	190
175°	698	703	698	703	698	66
180°	698	698	698	698	698	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	965.0	965.0	970.5	972.3	972.3	969.6	966.9	969.6	977.8	980.5	979.6
5°	961.4	968.7	978.7	980.5	982.3	981.4	979.6	981.4	990.4	992.2	993.1
7.5°	954.1	967.8	980.5	983.2	985.9	983.2	982.3	984.1	993.1	995.0	995.0
10°	945.1	964.1	978.7	980.5	983.2	980.5	980.5	984.1	993.1	995.0	995.9
12.5°	932.4	958.7	972.3	974.1	977.8	976.8	975.9	979.6	988.6	990.4	990.4
15°	917.9	948.7	961.4	963.2	969.6	967.8	967.8	971.4	981.4	984.1	983.2
17.5°	898.0	936.0	950.5	953.2	957.8	956.8	957.8	961.4	970.5	972.3	973.2
20°	875.4	918.8	936.0	938.7	943.3	943.3	943.3	947.8	956.8	960.5	960.5
22.5°	844.6	900.7	918.8	920.6	926.1	926.1	927.9	934.2	942.4	943.3	943.3
25°	808.4	880.8	896.2	901.6	907.1	909.8	912.5	916.1	918.8	917.9	918.8
27.5°	770.4	855.5	875.4	879.0	886.2	889.0	892.6	893.5	894.4	897.1	895.3
30°	727.8	820.2	850.0	853.7	865.4	867.2	863.6	865.4	870.0	871.8	873.6
32.5°	679.9	767.7	823.8	831.9	842.8	837.4	836.5	839.2	846.4	846.4	848.2
35°	614.7	726.9	799.3	806.6	814.7	808.4	812.0	812.9	817.5	820.2	819.3
37.5°	543.2	691.6	774.0	779.4	785.8	777.6	783.1	785.8	789.4	787.6	787.6
40°	479.8	636.4	744.1	747.8	753.2	746.8	752.3	754.1	755.9	754.1	753.2
42.5°	432.8	575.8	712.5	717.0	713.4	717.9	719.7	723.3	720.6	717.0	717.0
45°	396.6	559.5	678.1	683.5	678.1	685.3	688.0	688.0	679.9	678.1	677.2
47.5°	384.8	526.9	643.7	643.7	640.9	650.0	654.5	648.2	640.0	637.3	637.3
50°	383.9	490.7	596.6	593.0	605.6	616.5	612.0	605.6	599.3	589.4	589.4
52.5°	348.6	446.3	535.9	549.5	569.4	575.8	568.5	562.2	551.3	546.8	543.2
55°	323.2	400.2	480.7	507.9	528.7	536.9	523.3	516.9	500.6	497.9	496.1
57.5°	317.7	333.2	430.0	464.4	489.8	488.9	480.7	469.0	455.4	452.7	451.8
60°	291.5	240.8	375.7	416.5	442.7	440.0	432.8	421.9	409.2	407.4	405.6
62.5°	264.3	174.7	314.1	360.3	397.5	396.6	390.2	373.9	364.9	360.3	356.7
65°	224.5	146.6	223.6	299.6	353.1	354.9	341.3	329.6	319.5	314.1	313.2
67.5°	171.1	119.5	151.2	249.8	310.5	308.7	291.5	286.0	273.4	270.6	265.2
70°	126.7	79.7	105.0	202.8	268.8	264.3	250.7	244.4	232.6	226.3	222.7
72.5°	105.0	64.3	76.9	157.5	226.3	220.9	209.1	201.9	191.9	186.5	182.8
75°	85.1	67.9	58.8	116.8	183.7	180.1	169.3	162.0	153.9	146.6	147.5
77.5°	62.5	63.4	47.1	86.0	145.7	140.3	134.0	124.9	121.3	114.1	114.1
80°	47.1	49.8	35.3	58.8	105.0	105.0	99.6	93.2	86.9	83.3	83.3
82.5°	31.7	31.7	26.2	37.1	71.5	68.8	65.2	63.4	59.7	57.9	57.9
85°	14.5	18.1	16.3	22.6	38.9	40.7	40.7	38.9	38.0	36.2	37.1
87.5°	4.5	8.1	10.0	12.7	19.9	20.8	21.7	21.7	21.7	22.6	22.6
90°	4.7	8.4	12.2	13.1	20.6	30.6	35.6	31.6	23.7	17.8	17.8
92.5°	18.7	50.6	82.5	90.4	127.2	176.1	200.6	175.8	126.3	89.1	85.5
95°	45.0	103.3	161.7	176.2	312.9	495.1	586.3	523.2	397.0	302.3	291.6
97.5°	77.8	129.2	180.7	193.5	421.4	725.3	877.3	837.4	757.6	697.8	677.4
100°	103.1	149.8	196.4	208.1	461.0	798.2	966.8	969.7	975.6	979.9	955.6
102.5°	124.6	168.2	211.7	222.6	479.1	821.2	992.1	1043.0	1144.7	1220.9	1200.1
105°	161.2	198.1	235.0	244.2	492.6	823.8	989.3	1103.3	1331.1	1502.0	1490.8
107.5°	198.7	233.1	267.5	276.1	495.1	787.1	933.1	1092.1	1409.9	1648.2	1650.9
110°	224.0	255.1	286.0	293.8	491.3	754.6	886.2	1063.9	1419.3	1685.8	1697.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	248.8	278.4	307.9	315.4	491.4	726.2	843.6	1025.5	1389.2	1661.9	1679.8
115°	286.3	313.6	341.0	347.8	496.0	693.6	792.5	967.6	1318.0	1580.8	1605.6
117.5°	323.4	348.2	373.0	379.2	505.3	673.3	757.3	915.4	1231.6	1468.7	1496.2
120°	345.0	368.3	391.7	397.5	512.8	666.5	743.3	887.8	1176.6	1393.3	1420.1
122.5°	366.0	389.6	413.1	419.0	523.5	662.8	732.5	862.6	1122.8	1317.8	1344.3
125°	398.4	419.8	441.3	446.6	538.0	659.9	720.8	831.3	1052.2	1218.0	1242.3
127.5°	424.6	446.2	467.9	473.3	552.5	658.1	710.9	805.8	995.6	1137.9	1158.4
130°	438.6	462.0	485.3	491.1	563.2	659.2	707.2	791.7	960.6	1087.3	1106.2
132.5°	453.2	476.6	499.9	505.7	571.8	659.9	703.9	779.5	930.8	1044.2	1061.1
135°	474.8	496.0	517.2	522.5	581.1	659.2	698.3	761.7	888.3	983.3	997.9
137.5°	496.8	517.8	538.8	544.1	595.1	663.3	697.3	750.8	857.9	938.2	950.1
140°	515.0	534.4	553.8	558.7	603.8	664.0	694.1	740.3	832.8	902.2	913.4
142.5°	529.1	547.0	564.9	569.4	611.0	666.4	694.1	734.7	815.9	876.8	886.4
145°	550.7	566.3	581.9	585.8	620.3	666.4	689.4	722.6	789.0	838.9	846.2
147.5°	572.2	587.4	602.7	606.5	634.1	670.9	689.4	715.5	767.8	807.0	813.1
150°	586.3	600.0	613.8	617.2	641.3	673.3	689.4	711.5	755.6	788.8	793.6
152.5°	600.8	611.3	621.7	624.3	646.0	674.9	689.4	708.2	745.9	774.2	777.9
155°	622.4	630.1	637.8	639.7	656.2	678.3	689.4	704.4	734.4	756.9	759.3
157.5°	638.3	645.8	653.3	655.2	666.6	681.8	689.4	701.0	724.4	741.9	743.6
160°	649.1	654.9	660.8	662.2	671.3	683.3	689.4	699.3	719.3	734.4	735.4
162.5°	659.9	664.2	668.6	669.7	676.2	685.0	689.4	697.8	714.7	727.4	728.3
165°	671.5	675.5	679.5	680.5	683.5	687.4	689.4	695.4	707.5	716.5	717.5
167.5°	682.4	684.2	686.1	686.6	689.1	692.4	694.1	698.1	705.9	711.9	712.4
170°	689.4	691.3	693.2	693.6	693.8	694.0	694.1	698.1	705.9	711.9	711.9
172.5°	693.2	693.5	694.0	694.1	694.1	694.1	694.1	697.2	703.4	708.1	707.7
175°	698.3	698.3	698.3	698.3	696.9	695.0	694.1	696.1	700.0	702.9	702.9
177.5°	698.3	698.3	698.3	698.3	697.2	695.7	695.0	696.5	699.7	702.0	701.6
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	981.4	978.7	981.4	979.6	980.5	977.8	969.6	966.9	969.6	972.3	972.3
5°	993.1	991.3	993.1	993.1	992.2	990.4	981.4	979.6	981.4	982.3	980.5
7.5°	996.8	994.0	996.8	995.0	995.0	993.1	984.1	982.3	983.2	985.9	983.2
10°	996.8	994.0	996.8	995.9	995.0	993.1	984.1	980.5	980.5	983.2	980.5
12.5°	992.2	990.4	992.2	990.4	990.4	988.6	979.6	975.9	976.8	977.8	974.1
15°	985.0	982.3	985.0	983.2	984.1	981.4	971.4	967.8	967.8	969.6	963.2
17.5°	974.1	970.5	974.1	973.2	972.3	970.5	961.4	957.8	956.8	957.8	953.2
20°	961.4	958.7	961.4	960.5	960.5	956.8	947.8	943.3	943.3	943.3	938.7
22.5°	941.5	938.7	941.5	943.3	943.3	942.4	934.2	927.9	926.1	926.1	920.6
25°	918.8	916.1	918.8	918.8	917.9	918.8	916.1	912.5	909.8	907.1	901.6
27.5°	897.1	895.3	897.1	895.3	897.1	894.4	893.5	892.6	889.0	886.2	879.0
30°	875.4	873.6	875.4	873.6	871.8	870.0	865.4	863.6	867.2	865.4	853.7
32.5°	848.2	846.4	848.2	848.2	846.4	846.4	839.2	836.5	837.4	842.8	831.9
35°	820.2	817.5	820.2	819.3	820.2	817.5	812.9	812.0	808.4	814.7	806.6
37.5°	787.6	784.9	787.6	787.6	787.6	789.4	785.8	783.1	777.6	785.8	779.4
40°	754.1	750.5	754.1	753.2	754.1	755.9	754.1	752.3	746.8	753.2	747.8
42.5°	716.1	715.2	716.1	717.0	717.0	720.6	723.3	719.7	717.9	713.4	717.0
45°	675.3	673.5	675.3	677.2	678.1	679.9	688.0	688.0	685.3	678.1	683.5
47.5°	631.9	627.4	631.9	637.3	637.3	640.0	648.2	654.5	650.0	640.9	643.7
50°	585.7	586.6	585.7	589.4	589.4	599.3	605.6	612.0	616.5	605.6	593.0
52.5°	540.5	539.6	540.5	543.2	546.8	551.3	562.2	568.5	575.8	569.4	549.5
55°	495.2	497.0	495.2	496.1	497.9	500.6	516.9	523.3	536.9	528.7	507.9
57.5°	450.0	447.2	450.0	451.8	452.7	455.4	469.0	480.7	488.9	489.8	464.4
60°	397.5	393.8	397.5	405.6	407.4	409.2	421.9	432.8	440.0	442.7	416.5
62.5°	351.3	345.0	351.3	356.7	360.3	364.9	373.9	390.2	396.6	397.5	360.3
65°	302.3	299.6	302.3	313.2	314.1	319.5	329.6	341.3	354.9	353.1	299.6
67.5°	258.0	258.0	258.0	265.2	270.6	273.4	286.0	291.5	308.7	310.5	249.8
70°	217.2	216.3	217.2	222.7	226.3	232.6	244.4	250.7	264.3	268.8	202.8
72.5°	178.3	177.4	178.3	182.8	186.5	191.9	201.9	209.1	220.9	226.3	157.5
75°	143.9	142.1	143.9	147.5	146.6	153.9	162.0	169.3	180.1	183.7	116.8
77.5°	110.4	110.4	110.4	114.1	114.1	121.3	124.9	134.0	140.3	145.7	86.0
80°	82.4	81.5	82.4	83.3	83.3	86.9	93.2	99.6	105.0	105.0	58.8
82.5°	57.9	56.1	57.9	57.9	57.9	59.7	63.4	65.2	68.8	71.5	37.1
85°	36.2	36.2	36.2	37.1	36.2	38.0	38.9	40.7	40.7	38.9	22.6
87.5°	23.5	22.6	23.5	22.6	22.6	21.7	21.7	21.7	20.8	19.9	12.7
90°	17.8	17.8	17.8	17.8	17.8	23.7	31.6	35.6	30.6	20.6	13.1
92.5°	71.3	57.2	71.3	85.5	89.1	126.3	175.8	200.6	176.1	127.2	90.4
95°	248.6	205.7	248.6	291.6	302.3	397.0	523.2	586.3	495.1	312.9	176.2
97.5°	595.8	514.1	595.8	677.4	697.8	757.6	837.4	877.3	725.3	421.4	193.5
100°	858.4	761.1	858.4	955.6	979.9	975.6	969.7	966.8	798.2	461.0	208.1
102.5°	1116.7	1033.4	1116.7	1200.1	1220.9	1144.7	1043.0	992.1	821.2	479.1	222.6
105°	1446.1	1401.3	1446.1	1490.8	1502.0	1331.1	1103.3	989.3	823.8	492.6	244.2
107.5°	1661.8	1672.6	1661.8	1650.9	1648.2	1409.9	1092.1	933.1	787.1	495.1	276.1
110°	1744.1	1790.7	1744.1	1697.4	1685.8	1419.3	1063.9	886.2	754.6	491.3	293.8





TEST NUMBER: P935559

CATALOG NUMBER: SQ4-FA-125U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1751.4	1823.1	1751.4	1679.8	1661.9	1389.2	1025.5	843.6	726.2	491.4	315.4
115°	1705.0	1804.3	1705.0	1605.6	1580.8	1318.0	967.6	792.5	693.6	496.0	347.8
117.5°	1606.5	1716.6	1606.5	1496.2	1468.7	1231.6	915.4	757.3	673.3	505.3	379.2
120°	1527.1	1634.2	1527.1	1420.1	1393.3	1176.6	887.8	743.3	666.5	512.8	397.5
122.5°	1449.8	1555.4	1449.8	1344.3	1317.8	1122.8	862.6	732.5	662.8	523.5	419.0
125°	1339.5	1436.9	1339.5	1242.3	1218.0	1052.2	831.3	720.8	659.9	538.0	446.6
127.5°	1240.4	1322.5	1240.4	1158.4	1137.9	995.6	805.8	710.9	658.1	552.5	473.3
130°	1182.0	1257.9	1182.0	1106.2	1087.3	960.6	791.7	707.2	659.2	563.2	491.1
132.5°	1129.0	1196.9	1129.0	1061.1	1044.2	930.8	779.5	703.9	659.9	571.8	505.7
135°	1056.4	1114.9	1056.4	997.9	983.3	888.3	761.7	698.3	659.2	581.1	522.5
137.5°	998.1	1046.0	998.1	950.1	938.2	857.9	750.8	697.3	663.3	595.1	544.1
140°	958.1	1002.9	958.1	913.4	902.2	832.8	740.3	694.1	664.0	603.8	558.7
142.5°	925.0	963.5	925.0	886.4	876.8	815.9	734.7	694.1	666.4	611.0	569.4
145°	875.4	904.5	875.4	846.2	838.9	789.0	722.6	689.4	666.4	620.3	585.8
147.5°	837.2	861.4	837.2	813.1	807.0	767.8	715.5	689.4	670.9	634.1	606.5
150°	813.3	832.8	813.3	793.6	788.8	755.6	711.5	689.4	673.3	641.3	617.2
152.5°	792.6	807.5	792.6	777.9	774.2	745.9	708.2	689.4	674.9	646.0	624.3
155°	769.1	778.9	769.1	759.3	756.9	734.4	704.4	689.4	678.3	656.2	639.7
157.5°	750.5	757.3	750.5	743.6	741.9	724.4	701.0	689.4	681.8	666.6	655.2
160°	739.3	743.3	739.3	735.4	734.4	719.3	699.3	689.4	683.3	671.3	662.2
162.5°	732.1	735.8	732.1	728.3	727.4	714.7	697.8	689.4	685.0	676.2	669.7
165°	721.5	725.5	721.5	717.5	716.5	707.5	695.4	689.4	687.4	683.5	680.5
167.5°	714.0	715.6	714.0	712.4	711.9	705.9	698.1	694.1	692.4	689.1	686.6
170°	711.9	711.9	711.9	711.9	711.9	705.9	698.1	694.1	694.0	693.8	693.6
172.5°	706.3	704.8	706.3	707.7	708.1	703.4	697.2	694.1	694.1	694.1	694.1
175°	702.9	702.9	702.9	702.9	702.9	700.0	696.1	694.1	695.0	696.9	698.3
177.5°	700.0	698.3	700.0	701.6	702.0	699.7	696.5	695.0	695.7	697.2	698.3
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



TEST NUMBER: P935559

CATALOG NUMBER: SQ4-FA-125U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	970.5	965.0	965.0	955.9	952.3	949.6	945.1	931.5	927.9	924.3	929.7
5°	978.7	968.7	961.4	945.1	931.5	926.1	908.9	876.3	854.6	838.3	829.2
7.5°	980.5	967.8	954.1	928.8	896.2	881.7	829.2	769.5	753.2	738.7	729.7
10°	978.7	964.1	945.1	907.1	830.1	804.8	752.3	713.4	703.4	700.7	703.4
12.5°	972.3	958.7	932.4	869.0	761.3	744.1	713.4	690.7	688.9	693.4	717.9
15°	961.4	948.7	917.9	818.4	723.3	710.6	688.9	680.8	690.7	722.4	795.7
17.5°	950.5	936.0	898.0	768.6	694.3	685.3	669.9	686.2	742.3	784.9	809.3
20°	936.0	918.8	875.4	732.4	673.5	665.4	658.1	731.5	774.0	789.4	803.0
22.5°	918.8	900.7	844.6	707.0	651.8	645.5	650.0	756.8	774.0	784.9	796.6
25°	896.2	880.8	808.4	687.1	634.6	627.4	644.6	754.1	764.0	766.8	790.3
27.5°	875.4	855.5	770.4	669.0	613.8	611.1	649.1	742.3	749.6	752.3	777.6
30°	850.0	820.2	727.8	650.0	592.1	591.2	650.0	727.8	726.0	733.3	758.6
32.5°	823.8	767.7	679.9	626.5	571.2	570.3	643.7	706.1	704.3	714.3	733.3
35°	799.3	726.9	614.7	599.3	545.0	545.9	628.3	680.8	681.7	690.7	702.5
37.5°	774.0	691.6	543.2	569.4	519.7	519.7	607.5	657.2	655.4	658.1	674.4
40°	744.1	636.4	479.8	530.5	496.1	493.4	582.1	631.9	625.6	624.7	647.3
42.5°	712.5	575.8	432.8	478.9	469.0	465.3	551.3	601.1	589.4	592.1	621.0
45°	678.1	559.5	396.6	404.7	440.9	438.2	517.8	565.8	557.7	564.9	594.8
47.5°	643.7	526.9	384.8	335.9	411.0	410.1	480.7	531.4	526.9	534.1	565.8
50°	596.6	490.7	383.9	287.8	377.5	381.2	436.4	497.9	497.9	504.3	537.8
52.5°	535.9	446.3	348.6	260.7	338.6	349.5	397.5	469.0	470.8	477.1	507.0
55°	480.7	400.2	323.2	239.9	292.4	315.9	359.4	439.1	442.7	449.1	476.2
57.5°	430.0	333.2	317.7	215.4	249.8	272.5	325.9	410.1	411.9	417.4	443.6
60°	375.7	240.8	291.5	189.2	212.7	229.9	295.1	375.7	382.1	385.7	408.3
62.5°	314.1	174.7	264.3	171.1	194.6	198.2	269.7	343.1	351.3	354.0	367.6
65°	223.6	146.6	224.5	155.7	175.6	176.5	242.6	309.6	316.8	321.3	331.4
67.5°	151.2	119.5	171.1	141.2	161.1	162.0	216.3	270.6	280.6	284.2	290.6
70°	105.0	79.7	126.7	125.8	144.8	146.6	188.3	235.3	244.4	247.1	250.7
72.5°	76.9	64.3	105.0	113.1	127.6	129.4	159.3	195.5	204.6	207.3	209.1
75°	58.8	67.9	85.1	98.7	108.6	109.5	130.3	159.3	165.6	167.5	168.4
77.5°	47.1	63.4	62.5	79.7	88.7	86.9	102.3	123.1	128.5	128.5	128.5
80°	35.3	49.8	47.1	57.0	65.2	63.4	73.3	87.8	89.6	91.4	90.5
82.5°	26.2	31.7	31.7	36.2	43.4	41.6	48.9	57.0	57.0	57.0	58.8
85°	16.3	18.1	14.5	19.0	24.4	23.5	27.2	30.8	31.7	31.7	29.9
87.5°	10.0	8.1	4.5	7.2	10.9	10.9	12.7	13.6	12.7	12.7	12.7
90°	12.2	8.4	4.7	8.4	12.2	13.1	20.6	30.6	35.6	31.6	23.7
92.5°	82.5	50.6	18.7	50.6	82.5	90.4	127.2	176.1	200.6	175.8	126.3
95°	161.7	103.3	45.0	103.3	161.7	176.2	312.9	495.1	586.3	523.2	397.0
97.5°	180.7	129.2	77.8	129.2	180.7	193.5	421.4	725.3	877.3	837.4	757.6
100°	196.4	149.8	103.1	149.8	196.4	208.1	461.0	798.2	966.8	969.7	975.6
102.5°	211.7	168.2	124.6	168.2	211.7	222.6	479.1	821.2	992.1	1043.0	1144.7
105°	235.0	198.1	161.2	198.1	235.0	244.2	492.6	823.8	989.3	1103.3	1331.1
107.5°	267.5	233.1	198.7	233.1	267.5	276.1	495.1	787.1	933.1	1092.1	1409.9
110°	286.0	255.1	224.0	255.1	286.0	293.8	491.3	754.6	886.2	1063.9	1419.3



TEST NUMBER: P935559

CATALOG NUMBER: SQ4-FA-125U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	307.9	278.4	248.8	278.4	307.9	315.4	491.4	726.2	843.6	1025.5	1389.2
115°	341.0	313.6	286.3	313.6	341.0	347.8	496.0	693.6	792.5	967.6	1318.0
117.5°	373.0	348.2	323.4	348.2	373.0	379.2	505.3	673.3	757.3	915.4	1231.6
120°	391.7	368.3	345.0	368.3	391.7	397.5	512.8	666.5	743.3	887.8	1176.6
122.5°	413.1	389.6	366.0	389.6	413.1	419.0	523.5	662.8	732.5	862.6	1122.8
125°	441.3	419.8	398.4	419.8	441.3	446.6	538.0	659.9	720.8	831.3	1052.2
127.5°	467.9	446.2	424.6	446.2	467.9	473.3	552.5	658.1	710.9	805.8	995.6
130°	485.3	462.0	438.6	462.0	485.3	491.1	563.2	659.2	707.2	791.7	960.6
132.5°	499.9	476.6	453.2	476.6	499.9	505.7	571.8	659.9	703.9	779.5	930.8
135°	517.2	496.0	474.8	496.0	517.2	522.5	581.1	659.2	698.3	761.7	888.3
137.5°	538.8	517.8	496.8	517.8	538.8	544.1	595.1	663.3	697.3	750.8	857.9
140°	553.8	534.4	515.0	534.4	553.8	558.7	603.8	664.0	694.1	740.3	832.8
142.5°	564.9	547.0	529.1	547.0	564.9	569.4	611.0	666.4	694.1	734.7	815.9
145°	581.9	566.3	550.7	566.3	581.9	585.8	620.3	666.4	689.4	722.6	789.0
147.5°	602.7	587.4	572.2	587.4	602.7	606.5	634.1	670.9	689.4	715.5	767.8
150°	613.8	600.0	586.3	600.0	613.8	617.2	641.3	673.3	689.4	711.5	755.6
152.5°	621.7	611.3	600.8	611.3	621.7	624.3	646.0	674.9	689.4	708.2	745.9
155°	637.8	630.1	622.4	630.1	637.8	639.7	656.2	678.3	689.4	704.4	734.4
157.5°	653.3	645.8	638.3	645.8	653.3	655.2	666.6	681.8	689.4	701.0	724.4
160°	660.8	654.9	649.1	654.9	660.8	662.2	671.3	683.3	689.4	699.3	719.3
162.5°	668.6	664.2	659.9	664.2	668.6	669.7	676.2	685.0	689.4	697.8	714.7
165°	679.5	675.5	671.5	675.5	679.5	680.5	683.5	687.4	689.4	695.4	707.5
167.5°	686.1	684.2	682.4	684.2	686.1	686.6	689.1	692.4	694.1	698.1	705.9
170°	693.2	691.3	689.4	691.3	693.2	693.6	693.8	694.0	694.1	698.1	705.9
172.5°	694.0	693.5	693.2	693.5	694.0	694.1	694.1	694.1	694.1	697.2	703.4
175°	698.3	698.3	698.3	698.3	698.3	698.3	696.9	695.0	694.1	696.1	700.0
177.5°	698.3	698.3	698.3	698.3	698.3	698.3	697.2	695.7	695.0	696.5	699.7
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



TEST NUMBER: P935559

CATALOG NUMBER: SQ4-FA-125U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	923.4	920.6	924.3	914.3	924.3	920.6	923.4	929.7	924.3	927.9	931.5
5°	810.2	805.7	791.2	779.4	791.2	805.7	810.2	829.2	838.3	854.6	876.3
7.5°	724.2	720.6	717.0	709.7	717.0	720.6	724.2	729.7	738.7	753.2	769.5
10°	705.2	706.1	711.5	710.6	711.5	706.1	705.2	703.4	700.7	703.4	713.4
12.5°	754.1	762.2	792.1	790.3	792.1	762.2	754.1	717.9	693.4	688.9	690.7
15°	810.2	812.9	819.3	820.2	819.3	812.9	810.2	795.7	722.4	690.7	680.8
17.5°	815.6	816.5	821.1	821.1	821.1	816.5	815.6	809.3	784.9	742.3	686.2
20°	811.1	812.9	822.0	823.8	822.0	812.9	811.1	803.0	789.4	774.0	731.5
22.5°	809.3	812.9	820.2	819.3	820.2	812.9	809.3	796.6	784.9	774.0	756.8
25°	800.3	800.3	801.2	802.1	801.2	800.3	800.3	790.3	766.8	764.0	754.1
27.5°	781.2	783.1	788.5	787.6	788.5	783.1	781.2	777.6	752.3	749.6	742.3
30°	764.0	762.2	757.7	754.1	757.7	762.2	764.0	758.6	733.3	726.0	727.8
32.5°	735.1	730.6	726.0	723.3	726.0	730.6	735.1	733.3	714.3	704.3	706.1
35°	700.7	701.6	700.7	698.0	700.7	701.6	700.7	702.5	690.7	681.7	680.8
37.5°	676.2	678.1	677.2	673.5	677.2	678.1	676.2	674.4	658.1	655.4	657.2
40°	650.9	651.8	650.9	648.2	650.9	651.8	650.9	647.3	624.7	625.6	631.9
42.5°	626.5	625.6	622.8	621.0	622.8	625.6	626.5	621.0	592.1	589.4	601.1
45°	598.4	599.3	593.9	591.2	593.9	599.3	598.4	594.8	564.9	557.7	565.8
47.5°	570.3	570.3	565.8	563.1	565.8	570.3	570.3	565.8	534.1	526.9	531.4
50°	540.5	539.6	533.2	532.3	533.2	539.6	540.5	537.8	504.3	497.9	497.9
52.5°	506.1	506.1	507.0	508.8	507.0	506.1	506.1	507.0	477.1	470.8	469.0
55°	476.2	477.1	483.4	485.3	483.4	477.1	476.2	476.2	449.1	442.7	439.1
57.5°	445.4	445.4	450.0	450.0	450.0	445.4	445.4	443.6	417.4	411.9	410.1
60°	410.1	411.9	415.6	414.7	415.6	411.9	410.1	408.3	385.7	382.1	375.7
62.5°	373.0	374.8	375.7	373.9	375.7	374.8	373.0	367.6	354.0	351.3	343.1
65°	334.1	335.9	336.8	335.0	336.8	335.9	334.1	331.4	321.3	316.8	309.6
67.5°	294.2	293.3	292.4	296.0	292.4	293.3	294.2	290.6	284.2	280.6	270.6
70°	253.4	253.4	252.5	254.4	252.5	253.4	253.4	250.7	247.1	244.4	235.3
72.5°	210.0	209.1	212.7	210.0	212.7	209.1	210.0	209.1	207.3	204.6	195.5
75°	167.5	169.3	167.5	170.2	167.5	169.3	167.5	168.4	167.5	165.6	159.3
77.5°	127.6	129.4	127.6	127.6	127.6	129.4	127.6	128.5	128.5	128.5	123.1
80°	90.5	89.6	89.6	88.7	89.6	89.6	90.5	90.5	91.4	89.6	87.8
82.5°	57.9	57.0	57.0	58.8	57.0	57.0	57.9	58.8	57.0	57.0	57.0
85°	31.7	32.6	30.8	30.8	30.8	32.6	31.7	29.9	31.7	31.7	30.8
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°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23.7	31.6	35.6	30.6
92.5°	89.1	85.5	71.3	57.2	71.3	85.5	89.1	126.3	175.8	200.6	176.1
95°	302.3	291.6	248.6	205.7	248.6	291.6	302.3	397.0	523.2	586.3	495.1
97.5°	697.8	677.4	595.8	514.1	595.8	677.4	697.8	757.6	837.4	877.3	725.3
100°	979.9	955.6	858.4	761.1	858.4	955.6	979.9	975.6	969.7	966.8	798.2
102.5°	1220.9	1200.1	1116.7	1033.4	1116.7	1200.1	1220.9	1144.7	1043.0	992.1	821.2
105°	1502.0	1490.8	1446.1	1401.3	1446.1	1490.8	1502.0	1331.1	1103.3	989.3	823.8
107.5°	1648.2	1650.9	1661.8	1672.6	1661.8	1650.9	1648.2	1409.9	1092.1	933.1	787.1
110°	1685.8	1697.4	1744.1	1790.7	1744.1	1697.4	1685.8	1419.3	1063.9	886.2	754.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1661.9	1679.8	1751.4	1823.1	1751.4	1679.8	1661.9	1389.2	1025.5	843.6	726.2
115°	1580.8	1605.6	1705.0	1804.3	1705.0	1605.6	1580.8	1318.0	967.6	792.5	693.6
117.5°	1468.7	1496.2	1606.5	1716.6	1606.5	1496.2	1468.7	1231.6	915.4	757.3	673.3
120°	1393.3	1420.1	1527.1	1634.2	1527.1	1420.1	1393.3	1176.6	887.8	743.3	666.5
122.5°	1317.8	1344.3	1449.8	1555.4	1449.8	1344.3	1317.8	1122.8	862.6	732.5	662.8
125°	1218.0	1242.3	1339.5	1436.9	1339.5	1242.3	1218.0	1052.2	831.3	720.8	659.9
127.5°	1137.9	1158.4	1240.4	1322.5	1240.4	1158.4	1137.9	995.6	805.8	710.9	658.1
130°	1087.3	1106.2	1182.0	1257.9	1182.0	1106.2	1087.3	960.6	791.7	707.2	659.2
132.5°	1044.2	1061.1	1129.0	1196.9	1129.0	1061.1	1044.2	930.8	779.5	703.9	659.9
135°	983.3	997.9	1056.4	1114.9	1056.4	997.9	983.3	888.3	761.7	698.3	659.2
137.5°	938.2	950.1	998.1	1046.0	998.1	950.1	938.2	857.9	750.8	697.3	663.3
140°	902.2	913.4	958.1	1002.9	958.1	913.4	902.2	832.8	740.3	694.1	664.0
142.5°	876.8	886.4	925.0	963.5	925.0	886.4	876.8	815.9	734.7	694.1	666.4
145°	838.9	846.2	875.4	904.5	875.4	846.2	838.9	789.0	722.6	689.4	666.4
147.5°	807.0	813.1	837.2	861.4	837.2	813.1	807.0	767.8	715.5	689.4	670.9
150°	788.8	793.6	813.3	832.8	813.3	793.6	788.8	755.6	711.5	689.4	673.3
152.5°	774.2	777.9	792.6	807.5	792.6	777.9	774.2	745.9	708.2	689.4	674.9
155°	756.9	759.3	769.1	778.9	769.1	759.3	756.9	734.4	704.4	689.4	678.3
157.5°	741.9	743.6	750.5	757.3	750.5	743.6	741.9	724.4	701.0	689.4	681.8
160°	734.4	735.4	739.3	743.3	739.3	735.4	734.4	719.3	699.3	689.4	683.3
162.5°	727.4	728.3	732.1	735.8	732.1	728.3	727.4	714.7	697.8	689.4	685.0
165°	716.5	717.5	721.5	725.5	721.5	717.5	716.5	707.5	695.4	689.4	687.4
167.5°	711.9	712.4	714.0	715.6	714.0	712.4	711.9	705.9	698.1	694.1	692.4
170°	711.9	711.9	711.9	711.9	711.9	711.9	711.9	705.9	698.1	694.1	694.0
172.5°	708.1	707.7	706.3	704.8	706.3	707.7	708.1	703.4	697.2	694.1	694.1
175°	702.9	702.9	702.9	702.9	702.9	702.9	702.9	700.0	696.1	694.1	695.0
177.5°	702.0	701.6	700.0	698.3	700.0	701.6	702.0	699.7	696.5	695.0	695.7
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	956.8	956.8	956.8	956.8	956.8
2.5°	945.1	949.6	952.3	955.9	965.0
5°	908.9	926.1	931.5	945.1	961.4
7.5°	829.2	881.7	896.2	928.8	954.1
10°	752.3	804.8	830.1	907.1	945.1
12.5°	713.4	744.1	761.3	869.0	932.4
15°	688.9	710.6	723.3	818.4	917.9
17.5°	669.9	685.3	694.3	768.6	898.0
20°	658.1	665.4	673.5	732.4	875.4
22.5°	650.0	645.5	651.8	707.0	844.6
25°	644.6	627.4	634.6	687.1	808.4
27.5°	649.1	611.1	613.8	669.0	770.4
30°	650.0	591.2	592.1	650.0	727.8
32.5°	643.7	570.3	571.2	626.5	679.9
35°	628.3	545.9	545.0	599.3	614.7
37.5°	607.5	519.7	519.7	569.4	543.2
40°	582.1	493.4	496.1	530.5	479.8
42.5°	551.3	465.3	469.0	478.9	432.8
45°	517.8	438.2	440.9	404.7	396.6
47.5°	480.7	410.1	411.0	335.9	384.8
50°	436.4	381.2	377.5	287.8	383.9
52.5°	397.5	349.5	338.6	260.7	348.6
55°	359.4	315.9	292.4	239.9	323.2
57.5°	325.9	272.5	249.8	215.4	317.7
60°	295.1	229.9	212.7	189.2	291.5
62.5°	269.7	198.2	194.6	171.1	264.3
65°	242.6	176.5	175.6	155.7	224.5
67.5°	216.3	162.0	161.1	141.2	171.1
70°	188.3	146.6	144.8	125.8	126.7
72.5°	159.3	129.4	127.6	113.1	105.0
75°	130.3	109.5	108.6	98.7	85.1
77.5°	102.3	86.9	88.7	79.7	62.5
80°	73.3	63.4	65.2	57.0	47.1
82.5°	48.9	41.6	43.4	36.2	31.7
85°	27.2	23.5	24.4	19.0	14.5
87.5°	12.7	10.9	10.9	7.2	4.5
90°	20.6	13.1	12.2	8.4	4.7
92.5°	127.2	90.4	82.5	50.6	18.7
95°	312.9	176.2	161.7	103.3	45.0
97.5°	421.4	193.5	180.7	129.2	77.8
100°	461.0	208.1	196.4	149.8	103.1
102.5°	479.1	222.6	211.7	168.2	124.6
105°	492.6	244.2	235.0	198.1	161.2
107.5°	495.1	276.1	267.5	233.1	198.7
110°	491.3	293.8	286.0	255.1	224.0



TEST NUMBER: P935559

CATALOG NUMBER: SQ4-FA-125U-075D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	491.4	315.4	307.9	278.4	248.8
115°	496.0	347.8	341.0	313.6	286.3
117.5°	505.3	379.2	373.0	348.2	323.4
120°	512.8	397.5	391.7	368.3	345.0
122.5°	523.5	419.0	413.1	389.6	366.0
125°	538.0	446.6	441.3	419.8	398.4
127.5°	552.5	473.3	467.9	446.2	424.6
130°	563.2	491.1	485.3	462.0	438.6
132.5°	571.8	505.7	499.9	476.6	453.2
135°	581.1	522.5	517.2	496.0	474.8
137.5°	595.1	544.1	538.8	517.8	496.8
140°	603.8	558.7	553.8	534.4	515.0
142.5°	611.0	569.4	564.9	547.0	529.1
145°	620.3	585.8	581.9	566.3	550.7
147.5°	634.1	606.5	602.7	587.4	572.2
150°	641.3	617.2	613.8	600.0	586.3
152.5°	646.0	624.3	621.7	611.3	600.8
155°	656.2	639.7	637.8	630.1	622.4
157.5°	666.6	655.2	653.3	645.8	638.3
160°	671.3	662.2	660.8	654.9	649.1
162.5°	676.2	669.7	668.6	664.2	659.9
165°	683.5	680.5	679.5	675.5	671.5
167.5°	689.1	686.6	686.1	684.2	682.4
170°	693.8	693.6	693.2	691.3	689.4
172.5°	694.1	694.1	694.0	693.5	693.2
175°	696.9	698.3	698.3	698.3	698.3
177.5°	697.2	698.3	698.3	698.3	698.3
180°	698.3	698.3	698.3	698.3	698.3



TEST NUMBER: P935559  
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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	10.86	11.60	11.93	12.68	14.14	13.66	14.40	14.73	15.48	16.94
	3H	11.33	11.99	12.41	13.08	14.56	14.98	15.65	16.07	16.73	18.21
	4H	11.51	12.14	12.61	13.23	14.72	15.41	16.05	16.51	17.13	18.62
	6H	11.63	12.21	12.73	13.29	14.80	15.69	16.27	16.79	17.35	18.86
	8H	11.62	12.18	12.73	13.28	14.77	15.75	16.31	16.86	17.41	18.90
	12H	11.59	12.12	12.70	13.21	14.73	15.78	16.31	16.89	17.41	18.92
4H	2H	11.87	12.50	12.97	13.59	15.07	14.05	14.69	15.15	15.77	17.26
	3H	12.88	13.41	13.99	14.52	16.02	15.54	16.06	16.64	17.18	18.68
	4H	13.16	13.64	14.27	14.74	16.26	16.05	16.54	17.17	17.64	19.16
	6H	13.27	13.69	14.39	14.81	16.33	16.40	16.82	17.52	17.94	19.46
	8H	13.28	13.66	14.40	14.78	16.31	16.50	16.89	17.62	18.01	19.54
	12H	13.24	13.59	14.37	14.72	16.25	16.55	16.90	17.69	18.03	19.56
8H	4H	13.59	13.98	14.71	15.10	16.63	16.17	16.56	17.29	17.67	19.20
	6H	13.85	14.17	14.99	15.33	16.86	16.59	16.91	17.73	18.07	19.60
	8H	13.89	14.17	15.04	15.31	16.86	16.74	17.02	17.89	18.16	19.70
	12H	13.87	14.12	15.02	15.25	16.84	16.83	17.07	17.98	18.21	19.79
12H	4H	13.59	13.94	14.73	15.07	16.61	16.13	16.48	17.26	17.61	19.14
	6H	13.91	14.19	15.06	15.33	16.88	16.59	16.87	17.74	18.01	19.56
	8H	13.97	14.22	15.12	15.35	16.93	16.74	16.99	17.89	18.12	19.70