

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: P935534

Luminaire Tested: SQ4-FA-125U-075D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

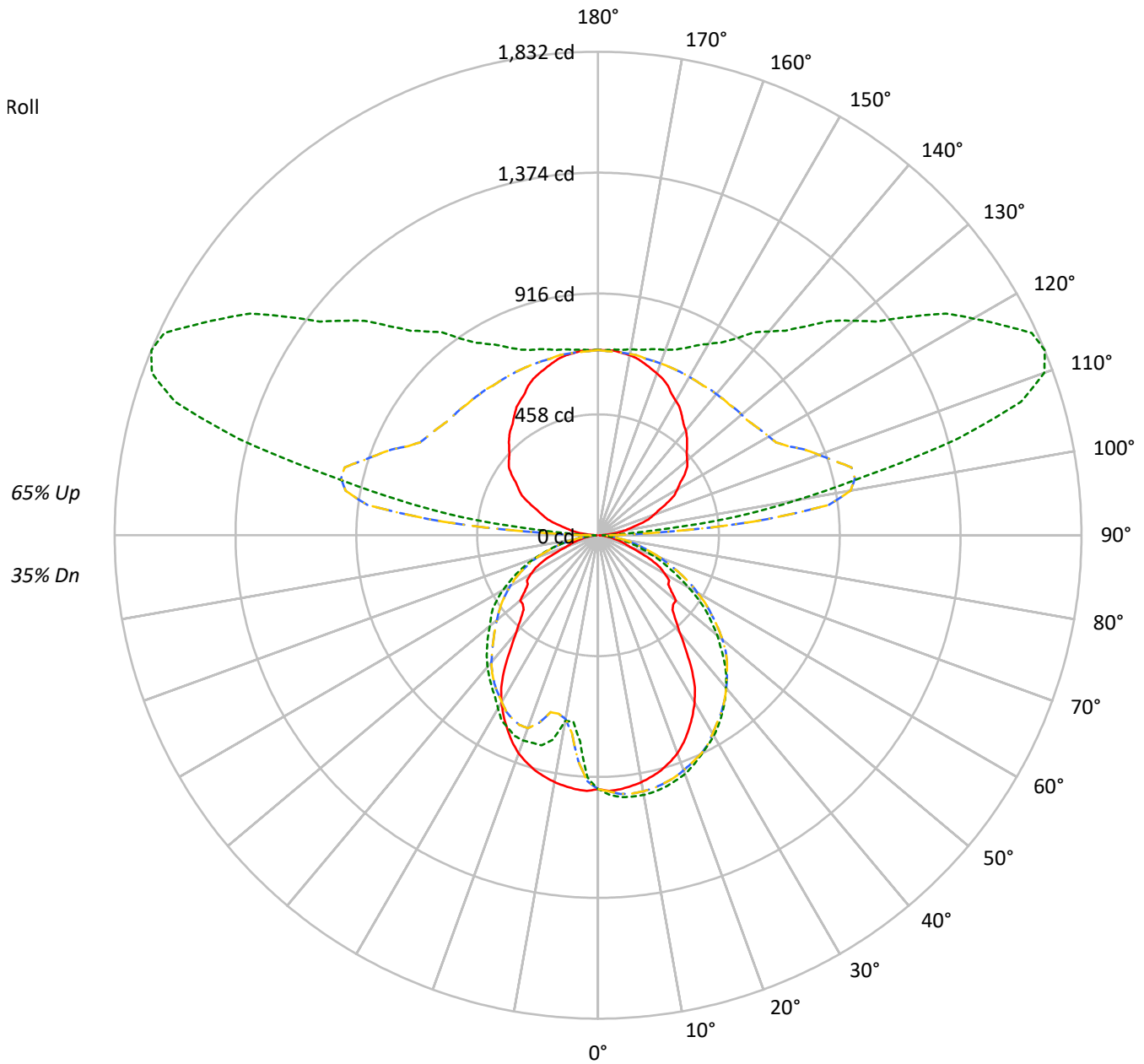
Test Method: LM-79-2019  
Report Number: P935534  
REPORT IS A COMBINATION OF REPORTS P933758 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-075D-92765-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7045.1 lumens  
Efficiency: N/A  
Efficacy: 126.7 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): 55.6  
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: P935534  
CATALOG NUMBER: SQ4-FA-125U-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	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°	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	1.2
10°-20°	246.5	3.5
20°-30°	381.0	5.4
30°-40°	454.8	6.5
40°-50°	457.5	6.5
50°-60°	398.1	5.7
60°-70°	282.2	4.0
70°-80°	149.3	2.1
80°-90°	39.8	0.6
90°-100°	342.1	4.9
100°-110°	899.3	12.8
110°-120°	932.5	13.2
120°-130°	748.0	10.6
130°-140°	586.9	8.3
140°-150°	450.5	6.4
150°-160°	324.4	4.6
160°-170°	198.5	2.8
170°-180°	67.1	1.0
0°-30°	714.2	10.1
0°-40°	1169.0	16.6
0°-60°	2024.6	28.7
0°-90°	2496.0	35.4
90°-120°	2173.9	30.9
90°-150°	3959.2	56.2
90°-180°	4549.0	64.6
0°-180°	7045.1	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°	5	18	5	18	5	4
95°	45	207	45	207	45	50
105°	162	1408	162	1408	162	172
115°	288	1813	288	1813	288	284
125°	400	1444	400	1444	400	355
135°	477	1120	477	1120	477	369
145°	553	909	553	909	553	347
155°	626	783	626	783	626	287
165°	675	729	675	729	675	190
175°	702	706	702	706	702	67
180°	702	702	702	702	702	



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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°	4.7	8.5	12.3	13.2	20.7	30.7	35.7	31.7	23.8	17.9	17.9
92.5°	18.8	50.8	82.9	90.9	127.8	177.0	201.6	176.7	126.9	89.5	86.0
95°	45.2	103.8	162.5	177.1	314.5	497.6	589.2	525.8	399.0	303.8	293.0
97.5°	78.1	129.8	181.6	194.5	423.5	728.9	881.6	841.5	761.4	701.2	680.8
100°	103.6	150.5	197.4	209.1	463.3	802.1	971.6	974.5	980.4	984.8	960.3
102.5°	125.3	169.0	212.8	223.7	481.5	825.2	997.1	1048.2	1150.3	1226.9	1206.0
105°	162.0	199.1	236.1	245.4	495.0	827.9	994.2	1108.8	1337.7	1509.5	1498.2
107.5°	199.7	234.2	268.8	277.4	497.6	791.0	937.7	1097.5	1416.9	1656.4	1659.1
110°	225.1	256.3	287.4	295.3	493.8	758.4	890.6	1069.2	1426.3	1694.1	1705.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	250.1	279.8	309.5	316.9	493.8	729.8	847.8	1030.5	1396.0	1670.1	1688.1
115°	287.7	315.2	342.7	349.5	498.5	697.1	796.4	972.4	1324.5	1588.6	1613.5
117.5°	325.0	349.9	374.9	381.0	507.8	676.7	761.1	919.9	1237.7	1476.0	1503.6
120°	346.7	370.1	393.6	399.4	515.3	669.8	747.0	892.2	1182.4	1400.2	1427.1
122.5°	367.9	391.5	415.2	421.1	526.1	666.1	736.2	866.9	1128.3	1324.3	1350.9
125°	400.3	421.9	443.4	448.8	540.7	663.1	724.3	835.4	1057.5	1224.0	1248.5
127.5°	426.7	448.5	470.2	475.6	555.2	661.4	714.4	809.8	1000.5	1143.5	1164.2
130°	440.8	464.3	487.7	493.6	566.0	662.5	710.7	795.6	965.3	1092.7	1111.7
132.5°	455.5	478.9	502.4	508.2	574.6	663.1	707.4	783.4	935.4	1049.4	1066.4
135°	477.1	498.5	519.8	525.1	584.0	662.5	701.8	765.5	892.7	988.1	1002.9
137.5°	499.2	520.3	541.5	546.8	598.1	666.6	700.8	754.5	862.2	942.8	954.8
140°	517.6	537.0	556.5	561.4	606.8	667.3	697.5	744.0	837.0	906.6	917.9
142.5°	531.7	549.7	567.7	572.3	614.0	669.7	697.5	738.4	819.9	881.2	890.8
145°	553.4	569.1	584.8	588.7	623.4	669.7	692.8	726.2	792.9	843.1	850.4
147.5°	575.1	590.4	605.6	609.5	637.2	674.2	692.8	719.1	771.6	811.0	817.1
150°	589.2	603.0	616.8	620.3	644.5	676.7	692.8	715.0	759.4	792.7	797.6
152.5°	603.8	614.3	624.7	627.4	649.2	678.2	692.8	711.7	749.6	778.0	781.7
155°	625.5	633.2	640.9	642.8	659.5	681.7	692.8	707.9	738.0	760.6	763.1
157.5°	641.5	649.0	656.5	658.4	669.9	685.1	692.8	704.5	728.0	745.5	747.3
160°	652.3	658.1	664.0	665.5	674.6	686.7	692.8	702.8	722.9	738.0	739.0
162.5°	663.1	667.5	671.9	673.0	679.6	688.4	692.8	701.2	718.2	731.0	731.9
165°	674.9	678.9	682.9	683.9	686.9	690.8	692.8	698.9	711.0	720.1	721.1
167.5°	685.8	687.6	689.5	690.0	692.5	695.9	697.5	701.5	709.4	715.4	715.9
170°	692.8	694.7	696.6	697.1	697.2	697.4	697.5	701.5	709.4	715.4	715.4
172.5°	696.6	697.0	697.4	697.5	697.5	697.5	697.5	700.6	706.9	711.6	711.2
175°	701.8	701.8	701.8	701.8	700.3	698.4	697.5	699.5	703.4	706.4	706.4
177.5°	701.8	701.8	701.8	701.8	700.7	699.1	698.4	700.0	703.1	705.5	705.1
180°	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8



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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°	17.9	17.9	17.9	17.9	17.9	23.8	31.7	35.7	30.7	20.7	13.2
92.5°	71.7	57.5	71.7	86.0	89.5	126.9	176.7	201.6	177.0	127.8	90.9
95°	249.9	206.8	249.9	293.0	303.8	399.0	525.8	589.2	497.6	314.5	177.1
97.5°	598.7	516.7	598.7	680.8	701.2	761.4	841.5	881.6	728.9	423.5	194.5
100°	862.6	764.8	862.6	960.3	984.8	980.4	974.5	971.6	802.1	463.3	209.1
102.5°	1122.2	1038.5	1122.2	1206.0	1226.9	1150.3	1048.2	997.1	825.2	481.5	223.7
105°	1453.2	1408.2	1453.2	1498.2	1509.5	1337.7	1108.8	994.2	827.9	495.0	245.4
107.5°	1670.0	1680.9	1670.0	1659.1	1656.4	1416.9	1097.5	937.7	791.0	497.6	277.4
110°	1752.7	1799.5	1752.7	1705.8	1694.1	1426.3	1069.2	890.6	758.4	493.8	295.3





TEST NUMBER: P935534

CATALOG NUMBER: SQ4-FA-125U-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°	1760.1	1832.1	1760.1	1688.1	1670.1	1396.0	1030.5	847.8	729.8	493.8	316.9
115°	1713.4	1813.3	1713.4	1613.5	1588.6	1324.5	972.4	796.4	697.1	498.5	349.5
117.5°	1614.4	1725.1	1614.4	1503.6	1476.0	1237.7	919.9	761.1	676.7	507.8	381.0
120°	1534.6	1642.3	1534.6	1427.1	1400.2	1182.4	892.2	747.0	669.8	515.3	399.4
122.5°	1457.0	1563.1	1457.0	1350.9	1324.3	1128.3	866.9	736.2	666.1	526.1	421.1
125°	1346.2	1444.0	1346.2	1248.5	1224.0	1057.5	835.4	724.3	663.1	540.7	448.8
127.5°	1246.6	1329.1	1246.6	1164.2	1143.5	1000.5	809.8	714.4	661.4	555.2	475.6
130°	1187.9	1264.1	1187.9	1111.7	1092.7	965.3	795.6	710.7	662.5	566.0	493.6
132.5°	1134.6	1202.8	1134.6	1066.4	1049.4	935.4	783.4	707.4	663.1	574.6	508.2
135°	1061.6	1120.4	1061.6	1002.9	988.1	892.7	765.5	701.8	662.5	584.0	525.1
137.5°	1003.1	1051.2	1003.1	954.8	942.8	862.2	754.5	700.8	666.6	598.1	546.8
140°	962.9	1007.9	962.9	917.9	906.6	837.0	744.0	697.5	667.3	606.8	561.4
142.5°	929.6	968.3	929.6	890.8	881.2	819.9	738.4	697.5	669.7	614.0	572.3
145°	879.7	909.0	879.7	850.4	843.1	792.9	726.2	692.8	669.7	623.4	588.7
147.5°	841.3	865.6	841.3	817.1	811.0	771.6	719.1	692.8	674.2	637.2	609.5
150°	817.3	837.0	817.3	797.6	792.7	759.4	715.0	692.8	676.7	644.5	620.3
152.5°	796.6	811.5	796.6	781.7	778.0	749.6	711.7	692.8	678.2	649.2	627.4
155°	772.9	782.7	772.9	763.1	760.6	738.0	707.9	692.8	681.7	659.5	642.8
157.5°	754.2	761.1	754.2	747.3	745.5	728.0	704.5	692.8	685.1	669.9	658.4
160°	743.0	747.0	743.0	739.0	738.0	722.9	702.8	692.8	686.7	674.6	665.5
162.5°	735.7	739.4	735.7	731.9	731.0	718.2	701.2	692.8	688.4	679.6	673.0
165°	725.1	729.1	725.1	721.1	720.1	711.0	698.9	692.8	690.8	686.9	683.9
167.5°	717.5	719.2	717.5	715.9	715.4	709.4	701.5	697.5	695.9	692.5	690.0
170°	715.4	715.4	715.4	715.4	715.4	709.4	701.5	697.5	697.4	697.2	697.1
172.5°	709.8	708.3	709.8	711.2	711.6	706.9	700.6	697.5	697.5	697.5	697.5
175°	706.4	706.4	706.4	706.4	706.4	703.4	699.5	697.5	698.4	700.3	701.8
177.5°	703.4	701.8	703.4	705.1	705.5	703.1	700.0	698.4	699.1	700.7	701.8
180°	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8



TEST NUMBER: P935534

CATALOG NUMBER: SQ4-FA-125U-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°	12.3	8.5	4.7	8.5	12.3	13.2	20.7	30.7	35.7	31.7	23.8
92.5°	82.9	50.8	18.8	50.8	82.9	90.9	127.8	177.0	201.6	176.7	126.9
95°	162.5	103.8	45.2	103.8	162.5	177.1	314.5	497.6	589.2	525.8	399.0
97.5°	181.6	129.8	78.1	129.8	181.6	194.5	423.5	728.9	881.6	841.5	761.4
100°	197.4	150.5	103.6	150.5	197.4	209.1	463.3	802.1	971.6	974.5	980.4
102.5°	212.8	169.0	125.3	169.0	212.8	223.7	481.5	825.2	997.1	1048.2	1150.3
105°	236.1	199.1	162.0	199.1	236.1	245.4	495.0	827.9	994.2	1108.8	1337.7
107.5°	268.8	234.2	199.7	234.2	268.8	277.4	497.6	791.0	937.7	1097.5	1416.9
110°	287.4	256.3	225.1	256.3	287.4	295.3	493.8	758.4	890.6	1069.2	1426.3



TEST NUMBER: P935534

CATALOG NUMBER: SQ4-FA-125U-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°	309.5	279.8	250.1	279.8	309.5	316.9	493.8	729.8	847.8	1030.5	1396.0
115°	342.7	315.2	287.7	315.2	342.7	349.5	498.5	697.1	796.4	972.4	1324.5
117.5°	374.9	349.9	325.0	349.9	374.9	381.0	507.8	676.7	761.1	919.9	1237.7
120°	393.6	370.1	346.7	370.1	393.6	399.4	515.3	669.8	747.0	892.2	1182.4
122.5°	415.2	391.5	367.9	391.5	415.2	421.1	526.1	666.1	736.2	866.9	1128.3
125°	443.4	421.9	400.3	421.9	443.4	448.8	540.7	663.1	724.3	835.4	1057.5
127.5°	470.2	448.5	426.7	448.5	470.2	475.6	555.2	661.4	714.4	809.8	1000.5
130°	487.7	464.3	440.8	464.3	487.7	493.6	566.0	662.5	710.7	795.6	965.3
132.5°	502.4	478.9	455.5	478.9	502.4	508.2	574.6	663.1	707.4	783.4	935.4
135°	519.8	498.5	477.1	498.5	519.8	525.1	584.0	662.5	701.8	765.5	892.7
137.5°	541.5	520.3	499.2	520.3	541.5	546.8	598.1	666.6	700.8	754.5	862.2
140°	556.5	537.0	517.6	537.0	556.5	561.4	606.8	667.3	697.5	744.0	837.0
142.5°	567.7	549.7	531.7	549.7	567.7	572.3	614.0	669.7	697.5	738.4	819.9
145°	584.8	569.1	553.4	569.1	584.8	588.7	623.4	669.7	692.8	726.2	792.9
147.5°	605.6	590.4	575.1	590.4	605.6	609.5	637.2	674.2	692.8	719.1	771.6
150°	616.8	603.0	589.2	603.0	616.8	620.3	644.5	676.7	692.8	715.0	759.4
152.5°	624.7	614.3	603.8	614.3	624.7	627.4	649.2	678.2	692.8	711.7	749.6
155°	640.9	633.2	625.5	633.2	640.9	642.8	659.5	681.7	692.8	707.9	738.0
157.5°	656.5	649.0	641.5	649.0	656.5	658.4	669.9	685.1	692.8	704.5	728.0
160°	664.0	658.1	652.3	658.1	664.0	665.5	674.6	686.7	692.8	702.8	722.9
162.5°	671.9	667.5	663.1	667.5	671.9	673.0	679.6	688.4	692.8	701.2	718.2
165°	682.9	678.9	674.9	678.9	682.9	683.9	686.9	690.8	692.8	698.9	711.0
167.5°	689.5	687.6	685.8	687.6	689.5	690.0	692.5	695.9	697.5	701.5	709.4
170°	696.6	694.7	692.8	694.7	696.6	697.1	697.2	697.4	697.5	701.5	709.4
172.5°	697.4	697.0	696.6	697.0	697.4	697.5	697.5	697.5	697.5	700.6	706.9
175°	701.8	701.8	701.8	701.8	701.8	701.8	700.3	698.4	697.5	699.5	703.4
177.5°	701.8	701.8	701.8	701.8	701.8	701.8	700.7	699.1	698.4	700.0	703.1
180°	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8



TEST NUMBER: P935534

CATALOG NUMBER: SQ4-FA-125U-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°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	23.8	31.7	35.7	30.7
92.5°	89.5	86.0	71.7	57.5	71.7	86.0	89.5	126.9	176.7	201.6	177.0
95°	303.8	293.0	249.9	206.8	249.9	293.0	303.8	399.0	525.8	589.2	497.6
97.5°	701.2	680.8	598.7	516.7	598.7	680.8	701.2	761.4	841.5	881.6	728.9
100°	984.8	960.3	862.6	764.8	862.6	960.3	984.8	980.4	974.5	971.6	802.1
102.5°	1226.9	1206.0	1122.2	1038.5	1122.2	1206.0	1226.9	1150.3	1048.2	997.1	825.2
105°	1509.5	1498.2	1453.2	1408.2	1453.2	1498.2	1509.5	1337.7	1108.8	994.2	827.9
107.5°	1656.4	1659.1	1670.0	1680.9	1670.0	1659.1	1656.4	1416.9	1097.5	937.7	791.0
110°	1694.1	1705.8	1752.7	1799.5	1752.7	1705.8	1694.1	1426.3	1069.2	890.6	758.4



TEST NUMBER: P935534

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1670.1	1688.1	1760.1	1832.1	1760.1	1688.1	1670.1	1396.0	1030.5	847.8	729.8
115°	1588.6	1613.5	1713.4	1813.3	1713.4	1613.5	1588.6	1324.5	972.4	796.4	697.1
117.5°	1476.0	1503.6	1614.4	1725.1	1614.4	1503.6	1476.0	1237.7	919.9	761.1	676.7
120°	1400.2	1427.1	1534.6	1642.3	1534.6	1427.1	1400.2	1182.4	892.2	747.0	669.8
122.5°	1324.3	1350.9	1457.0	1563.1	1457.0	1350.9	1324.3	1128.3	866.9	736.2	666.1
125°	1224.0	1248.5	1346.2	1444.0	1346.2	1248.5	1224.0	1057.5	835.4	724.3	663.1
127.5°	1143.5	1164.2	1246.6	1329.1	1246.6	1164.2	1143.5	1000.5	809.8	714.4	661.4
130°	1092.7	1111.7	1187.9	1264.1	1187.9	1111.7	1092.7	965.3	795.6	710.7	662.5
132.5°	1049.4	1066.4	1134.6	1202.8	1134.6	1066.4	1049.4	935.4	783.4	707.4	663.1
135°	988.1	1002.9	1061.6	1120.4	1061.6	1002.9	988.1	892.7	765.5	701.8	662.5
137.5°	942.8	954.8	1003.1	1051.2	1003.1	954.8	942.8	862.2	754.5	700.8	666.6
140°	906.6	917.9	962.9	1007.9	962.9	917.9	906.6	837.0	744.0	697.5	667.3
142.5°	881.2	890.8	929.6	968.3	929.6	890.8	881.2	819.9	738.4	697.5	669.7
145°	843.1	850.4	879.7	909.0	879.7	850.4	843.1	792.9	726.2	692.8	669.7
147.5°	811.0	817.1	841.3	865.6	841.3	817.1	811.0	771.6	719.1	692.8	674.2
150°	792.7	797.6	817.3	837.0	817.3	797.6	792.7	759.4	715.0	692.8	676.7
152.5°	778.0	781.7	796.6	811.5	796.6	781.7	778.0	749.6	711.7	692.8	678.2
155°	760.6	763.1	772.9	782.7	772.9	763.1	760.6	738.0	707.9	692.8	681.7
157.5°	745.5	747.3	754.2	761.1	754.2	747.3	745.5	728.0	704.5	692.8	685.1
160°	738.0	739.0	743.0	747.0	743.0	739.0	738.0	722.9	702.8	692.8	686.7
162.5°	731.0	731.9	735.7	739.4	735.7	731.9	731.0	718.2	701.2	692.8	688.4
165°	720.1	721.1	725.1	729.1	725.1	721.1	720.1	711.0	698.9	692.8	690.8
167.5°	715.4	715.9	717.5	719.2	717.5	715.9	715.4	709.4	701.5	697.5	695.9
170°	715.4	715.4	715.4	715.4	715.4	715.4	715.4	709.4	701.5	697.5	697.4
172.5°	711.6	711.2	709.8	708.3	709.8	711.2	711.6	706.9	700.6	697.5	697.5
175°	706.4	706.4	706.4	706.4	706.4	706.4	706.4	703.4	699.5	697.5	698.4
177.5°	705.5	705.1	703.4	701.8	703.4	705.1	705.5	703.1	700.0	698.4	699.1
180°	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8



TEST NUMBER: P935534

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**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°	20.7	13.2	12.3	8.5	4.7
92.5°	127.8	90.9	82.9	50.8	18.8
95°	314.5	177.1	162.5	103.8	45.2
97.5°	423.5	194.5	181.6	129.8	78.1
100°	463.3	209.1	197.4	150.5	103.6
102.5°	481.5	223.7	212.8	169.0	125.3
105°	495.0	245.4	236.1	199.1	162.0
107.5°	497.6	277.4	268.8	234.2	199.7
110°	493.8	295.3	287.4	256.3	225.1



TEST NUMBER: P935534

CATALOG NUMBER: SQ4-FA-125U-075D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	493.8	316.9	309.5	279.8	250.1
115°	498.5	349.5	342.7	315.2	287.7
117.5°	507.8	381.0	374.9	349.9	325.0
120°	515.3	399.4	393.6	370.1	346.7
122.5°	526.1	421.1	415.2	391.5	367.9
125°	540.7	448.8	443.4	421.9	400.3
127.5°	555.2	475.6	470.2	448.5	426.7
130°	566.0	493.6	487.7	464.3	440.8
132.5°	574.6	508.2	502.4	478.9	455.5
135°	584.0	525.1	519.8	498.5	477.1
137.5°	598.1	546.8	541.5	520.3	499.2
140°	606.8	561.4	556.5	537.0	517.6
142.5°	614.0	572.3	567.7	549.7	531.7
145°	623.4	588.7	584.8	569.1	553.4
147.5°	637.2	609.5	605.6	590.4	575.1
150°	644.5	620.3	616.8	603.0	589.2
152.5°	649.2	627.4	624.7	614.3	603.8
155°	659.5	642.8	640.9	633.2	625.5
157.5°	669.9	658.4	656.5	649.0	641.5
160°	674.6	665.5	664.0	658.1	652.3
162.5°	679.6	673.0	671.9	667.5	663.1
165°	686.9	683.9	682.9	678.9	674.9
167.5°	692.5	690.0	689.5	687.6	685.8
170°	697.2	697.1	696.6	694.7	692.8
172.5°	697.5	697.5	697.4	697.0	696.6
175°	700.3	701.8	701.8	701.8	701.8
177.5°	700.7	701.8	701.8	701.8	701.8
180°	701.8	701.8	701.8	701.8	701.8



TEST NUMBER: P935534  
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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	10.88	11.62	11.95	12.69	14.16	13.67	14.42	14.75	15.49	16.96
	3H	11.34	12.01	12.43	13.09	14.58	15.00	15.67	16.08	16.75	18.23
	4H	11.53	12.16	12.62	13.25	14.74	15.43	16.06	16.52	17.15	18.64
	6H	11.64	12.22	12.75	13.31	14.81	15.70	16.28	16.80	17.37	18.87
	8H	11.64	12.19	12.75	13.30	14.79	15.77	16.32	16.88	17.43	18.92
	12H	11.61	12.13	12.72	13.23	14.75	15.80	16.32	16.91	17.42	18.94
4H	2H	11.89	12.52	12.99	13.60	15.09	14.07	14.70	15.17	15.79	17.28
	3H	12.90	13.43	14.01	14.54	16.04	15.55	16.08	16.66	17.19	18.69
	4H	13.17	13.66	14.28	14.76	16.28	16.07	16.55	17.18	17.65	19.18
	6H	13.29	13.71	14.41	14.83	16.35	16.42	16.84	17.54	17.96	19.47
	8H	13.29	13.68	14.41	14.80	16.33	16.52	16.91	17.64	18.02	19.55
	12H	13.26	13.61	14.39	14.74	16.27	16.57	16.92	17.70	18.05	19.58
8H	4H	13.61	14.00	14.73	15.11	16.65	16.19	16.57	17.31	17.69	19.22
	6H	13.87	14.19	15.01	15.35	16.87	16.61	16.93	17.75	18.09	19.62
	8H	13.91	14.19	15.06	15.33	16.88	16.76	17.04	17.90	18.17	19.72
	12H	13.89	14.13	15.04	15.27	16.85	16.84	17.09	17.99	18.22	19.81
12H	4H	13.61	13.96	14.75	15.09	16.63	16.15	16.50	17.28	17.62	19.16
	6H	13.93	14.21	15.07	15.34	16.89	16.61	16.89	17.75	18.02	19.57
	8H	13.99	14.23	15.14	15.37	16.95	16.76	17.00	17.91	18.14	19.72