

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: P934734

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

Issue Date: 12/17/2024

**Test Information**

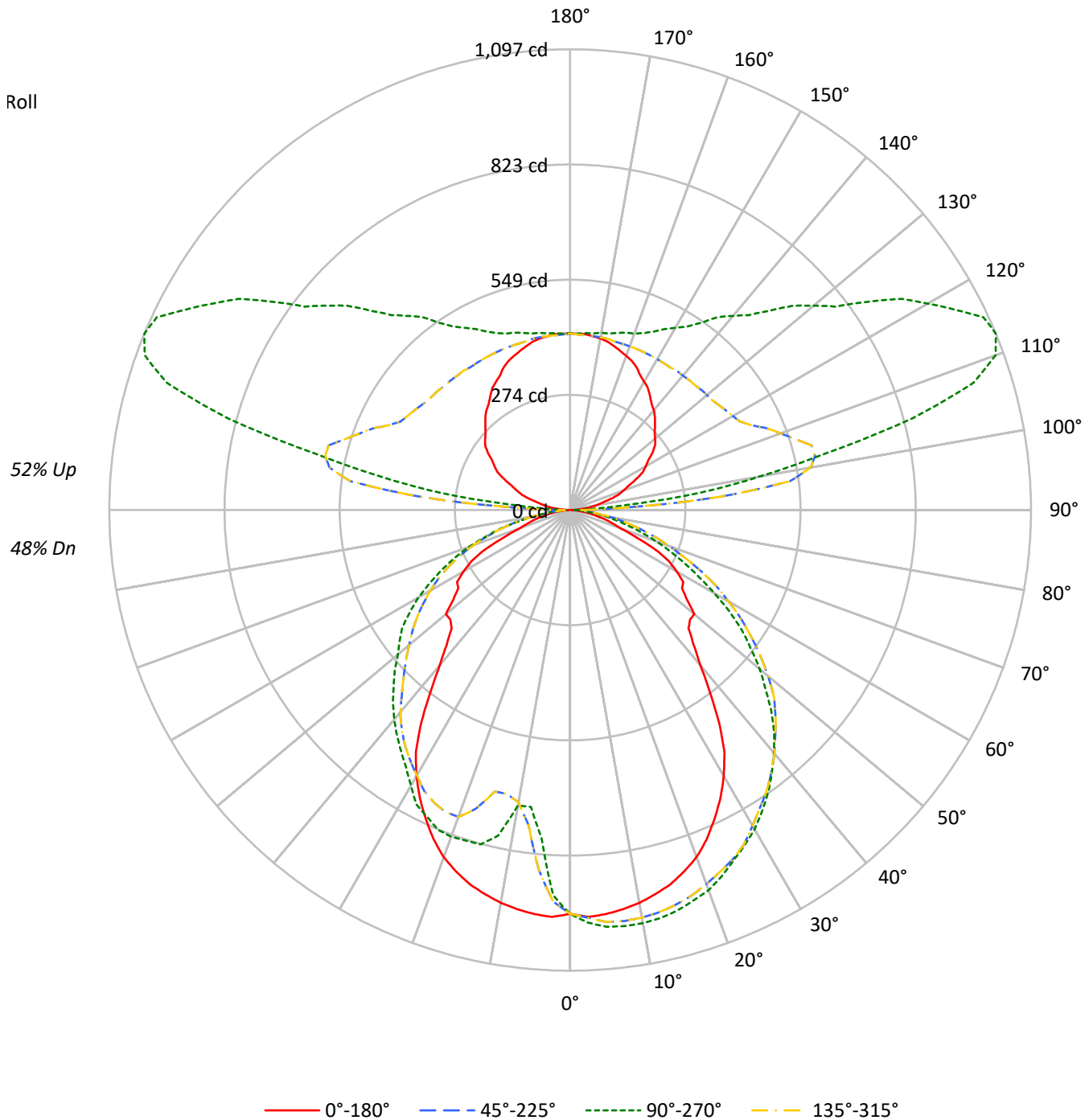
Test Method: LM-79-2019  
Report Number: P934734  
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5218.6 lumens  
Efficiency: N/A  
Efficacy: 123.1 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: General Diffuse  
  
Input Watts (W): 42.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

**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	1.7
10°-20°	246.5	4.7
20°-30°	381.0	7.3
30°-40°	454.8	8.7
40°-50°	457.5	8.8
50°-60°	398.1	7.6
60°-70°	282.2	5.4
70°-80°	149.3	2.9
80°-90°	38.8	0.7
90°-100°	204.8	3.9
100°-110°	538.4	10.3
110°-120°	558.3	10.7
120°-130°	447.8	8.6
130°-140°	351.4	6.7
140°-150°	269.7	5.2
150°-160°	194.2	3.7
160°-170°	118.8	2.3
170°-180°	40.2	0.8
0°-30°	714.2	13.7
0°-40°	1169.0	22.4
0°-60°	2024.6	38.8
0°-90°	2494.9	47.8
90°-120°	1301.6	24.9
90°-150°	2370.5	45.4
90°-180°	2724.0	52.2
0°-180°	5218.6	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°	3	11	3	11	3	3
95°	27	124	27	124	27	30
105°	97	843	97	843	97	103
115°	172	1086	172	1086	172	170
125°	240	864	240	864	240	213
135°	286	671	286	671	286	221
145°	331	544	331	544	331	208
155°	374	469	374	469	374	172
165°	404	436	404	436	404	114
175°	420	423	420	423	420	40
180°	420	420	420	420	420	



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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°	2.8	5.1	7.4	7.9	12.5	18.5	21.5	19.1	14.3	10.7	10.7
92.5°	11.3	30.5	49.6	54.4	76.5	106.0	120.7	105.8	76.0	53.6	51.5
95°	27.1	62.2	97.3	106.1	188.3	297.9	352.8	314.7	238.8	181.8	175.4
97.5°	46.8	77.8	108.7	116.4	253.6	436.4	527.9	503.8	455.9	419.9	407.6
100°	62.0	90.1	118.2	125.2	277.3	480.3	581.7	583.4	587.0	589.6	575.0
102.5°	75.0	101.2	127.3	133.9	288.3	494.1	597.0	627.6	688.7	734.5	722.0
105°	97.0	119.2	141.4	146.9	296.4	495.7	595.3	663.9	800.9	903.7	897.0
107.5°	119.5	140.3	160.9	166.1	297.9	473.6	561.4	657.0	848.2	991.7	993.3
110°	134.8	153.5	172.2	176.8	295.6	454.0	533.2	640.1	853.9	1014.2	1021.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.7	167.6	185.3	189.8	295.7	437.0	507.6	617.0	835.8	999.9	1010.7
115°	172.3	188.7	205.1	209.2	298.5	417.3	476.8	582.3	793.0	951.1	966.0
117.5°	194.6	209.5	224.4	228.1	304.0	405.1	455.6	550.8	741.0	883.7	900.3
120°	207.6	221.6	235.6	239.1	308.5	401.0	447.2	534.1	708.0	838.3	854.4
122.5°	220.2	234.4	248.5	252.1	314.9	398.8	440.7	518.9	675.5	792.9	808.8
125°	239.7	252.6	265.5	268.7	323.7	397.1	433.7	500.2	633.2	732.9	747.5
127.5°	255.5	268.5	281.5	284.8	332.5	396.1	427.8	484.9	599.1	684.7	697.1
130°	264.0	278.0	292.0	295.5	338.8	396.6	425.5	476.4	578.0	654.2	665.6
132.5°	272.7	286.7	300.7	304.3	344.0	397.1	423.5	469.0	560.1	628.3	638.5
135°	285.6	298.4	311.2	314.4	349.7	396.7	420.2	458.3	534.5	591.6	600.5
137.5°	298.9	311.6	324.2	327.4	358.1	399.1	419.6	451.8	516.2	564.5	571.7
140°	309.9	321.6	333.2	336.1	363.3	399.5	417.6	445.4	501.0	542.8	549.5
142.5°	318.4	329.1	339.8	342.6	367.6	401.0	417.6	442.1	490.9	527.6	533.4
145°	331.3	340.8	350.1	352.5	373.2	401.0	414.8	434.8	474.7	504.8	509.1
147.5°	344.3	353.4	362.6	364.9	381.5	403.7	414.8	430.5	462.0	485.6	489.2
150°	352.8	361.0	369.3	371.4	385.9	405.2	414.8	428.1	454.6	474.6	477.5
152.5°	361.5	367.8	374.0	375.6	388.7	406.1	414.8	426.2	448.8	465.8	468.0
155°	374.5	379.1	383.7	384.9	394.9	408.2	414.8	423.8	441.8	455.4	456.8
157.5°	384.0	388.6	393.1	394.2	401.1	410.2	414.8	421.8	435.8	446.4	447.4
160°	390.5	394.1	397.5	398.4	403.9	411.2	414.8	420.8	432.9	441.9	442.4
162.5°	397.1	399.7	402.3	403.0	406.9	412.2	414.8	419.9	430.0	437.6	438.2
165°	404.1	406.4	408.8	409.4	411.2	413.6	414.8	418.4	425.7	431.2	431.8
167.5°	410.5	411.6	412.8	413.1	414.6	416.6	417.6	420.0	424.8	428.3	428.6
170°	414.8	415.9	417.1	417.3	417.4	417.5	417.6	420.0	424.8	428.3	428.3
172.5°	417.1	417.3	417.5	417.6	417.6	417.6	417.6	419.5	423.3	426.1	425.9
175°	420.2	420.2	420.2	420.2	419.3	418.2	417.6	418.8	421.2	423.0	423.0
177.5°	420.2	420.2	420.2	420.2	419.5	418.6	418.2	419.1	421.0	422.4	422.2
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



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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°	10.7	10.7	10.7	10.7	10.7	14.3	19.1	21.5	18.5	12.5	7.9
92.5°	42.9	34.4	42.9	51.5	53.6	76.0	105.8	120.7	106.0	76.5	54.4
95°	149.6	123.8	149.6	175.4	181.8	238.8	314.7	352.8	297.9	188.3	106.1
97.5°	358.5	309.4	358.5	407.6	419.9	455.9	503.8	527.9	436.4	253.6	116.4
100°	516.5	457.9	516.5	575.0	589.6	587.0	583.4	581.7	480.3	277.3	125.2
102.5°	671.9	621.7	671.9	722.0	734.5	688.7	627.6	597.0	494.1	288.3	133.9
105°	870.1	843.1	870.1	897.0	903.7	800.9	663.9	595.3	495.7	296.4	146.9
107.5°	999.9	1006.4	999.9	993.3	991.7	848.2	657.0	561.4	473.6	297.9	166.1
110°	1049.4	1077.5	1049.4	1021.2	1014.2	853.9	640.1	533.2	454.0	295.6	176.8





TEST NUMBER: P934734

CATALOG NUMBER: SQ4-FA-075U-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°	1053.8	1096.9	1053.8	1010.7	999.9	835.8	617.0	507.6	437.0	295.7	189.8
115°	1025.9	1085.7	1025.9	966.0	951.1	793.0	582.3	476.8	417.3	298.5	209.2
117.5°	966.6	1032.9	966.6	900.3	883.7	741.0	550.8	455.6	405.1	304.0	228.1
120°	918.8	983.2	918.8	854.4	838.3	708.0	534.1	447.2	401.0	308.5	239.1
122.5°	872.3	935.9	872.3	808.8	792.9	675.5	518.9	440.7	398.8	314.9	252.1
125°	806.0	864.5	806.0	747.5	732.9	633.2	500.2	433.7	397.1	323.7	268.7
127.5°	746.4	795.8	746.4	697.1	684.7	599.1	484.9	427.8	396.1	332.5	284.8
130°	711.2	756.8	711.2	665.6	654.2	578.0	476.4	425.5	396.6	338.8	295.5
132.5°	679.3	720.2	679.3	638.5	628.3	560.1	469.0	423.5	397.1	344.0	304.3
135°	635.7	670.9	635.7	600.5	591.6	534.5	458.3	420.2	396.7	349.7	314.4
137.5°	600.5	629.4	600.5	571.7	564.5	516.2	451.8	419.6	399.1	358.1	327.4
140°	576.5	603.5	576.5	549.5	542.8	501.0	445.4	417.6	399.5	363.3	336.1
142.5°	556.5	579.7	556.5	533.4	527.6	490.9	442.1	417.6	401.0	367.6	342.6
145°	526.7	544.2	526.7	509.1	504.8	474.7	434.8	414.8	401.0	373.2	352.5
147.5°	503.8	518.3	503.8	489.2	485.6	462.0	430.5	414.8	403.7	381.5	364.9
150°	489.3	501.1	489.3	477.5	474.6	454.6	428.1	414.8	405.2	385.9	371.4
152.5°	476.9	485.8	476.9	468.0	465.8	448.8	426.2	414.8	406.1	388.7	375.6
155°	462.7	468.6	462.7	456.8	455.4	441.8	423.8	414.8	408.2	394.9	384.9
157.5°	451.5	455.6	451.5	447.4	446.4	435.8	421.8	414.8	410.2	401.1	394.2
160°	444.8	447.2	444.8	442.4	441.9	432.9	420.8	414.8	411.2	403.9	398.4
162.5°	440.4	442.7	440.4	438.2	437.6	430.0	419.9	414.8	412.2	406.9	403.0
165°	434.2	436.5	434.2	431.8	431.2	425.7	418.4	414.8	413.6	411.2	409.4
167.5°	429.6	430.6	429.6	428.6	428.3	424.8	420.0	417.6	416.6	414.6	413.1
170°	428.3	428.3	428.3	428.3	428.3	424.8	420.0	417.6	417.5	417.4	417.3
172.5°	425.0	424.1	425.0	425.9	426.1	423.3	419.5	417.6	417.6	417.6	417.6
175°	423.0	423.0	423.0	423.0	423.0	421.2	418.8	417.6	418.2	419.3	420.2
177.5°	421.2	420.2	421.2	422.2	422.4	421.0	419.1	418.2	418.6	419.5	420.2
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934734

CATALOG NUMBER: SQ4-FA-075U-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°	7.4	5.1	2.8	5.1	7.4	7.9	12.5	18.5	21.5	19.1	14.3
92.5°	49.6	30.5	11.3	30.5	49.6	54.4	76.5	106.0	120.7	105.8	76.0
95°	97.3	62.2	27.1	62.2	97.3	106.1	188.3	297.9	352.8	314.7	238.8
97.5°	108.7	77.8	46.8	77.8	108.7	116.4	253.6	436.4	527.9	503.8	455.9
100°	118.2	90.1	62.0	90.1	118.2	125.2	277.3	480.3	581.7	583.4	587.0
102.5°	127.3	101.2	75.0	101.2	127.3	133.9	288.3	494.1	597.0	627.6	688.7
105°	141.4	119.2	97.0	119.2	141.4	146.9	296.4	495.7	595.3	663.9	800.9
107.5°	160.9	140.3	119.5	140.3	160.9	166.1	297.9	473.6	561.4	657.0	848.2
110°	172.2	153.5	134.8	153.5	172.2	176.8	295.6	454.0	533.2	640.1	853.9



TEST NUMBER: P934734

CATALOG NUMBER: SQ4-FA-075U-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°	185.3	167.6	149.7	167.6	185.3	189.8	295.7	437.0	507.6	617.0	835.8
115°	205.1	188.7	172.3	188.7	205.1	209.2	298.5	417.3	476.8	582.3	793.0
117.5°	224.4	209.5	194.6	209.5	224.4	228.1	304.0	405.1	455.6	550.8	741.0
120°	235.6	221.6	207.6	221.6	235.6	239.1	308.5	401.0	447.2	534.1	708.0
122.5°	248.5	234.4	220.2	234.4	248.5	252.1	314.9	398.8	440.7	518.9	675.5
125°	265.5	252.6	239.7	252.6	265.5	268.7	323.7	397.1	433.7	500.2	633.2
127.5°	281.5	268.5	255.5	268.5	281.5	284.8	332.5	396.1	427.8	484.9	599.1
130°	292.0	278.0	264.0	278.0	292.0	295.5	338.8	396.6	425.5	476.4	578.0
132.5°	300.7	286.7	272.7	286.7	300.7	304.3	344.0	397.1	423.5	469.0	560.1
135°	311.2	298.4	285.6	298.4	311.2	314.4	349.7	396.7	420.2	458.3	534.5
137.5°	324.2	311.6	298.9	311.6	324.2	327.4	358.1	399.1	419.6	451.8	516.2
140°	333.2	321.6	309.9	321.6	333.2	336.1	363.3	399.5	417.6	445.4	501.0
142.5°	339.8	329.1	318.4	329.1	339.8	342.6	367.6	401.0	417.6	442.1	490.9
145°	350.1	340.8	331.3	340.8	350.1	352.5	373.2	401.0	414.8	434.8	474.7
147.5°	362.6	353.4	344.3	353.4	362.6	364.9	381.5	403.7	414.8	430.5	462.0
150°	369.3	361.0	352.8	361.0	369.3	371.4	385.9	405.2	414.8	428.1	454.6
152.5°	374.0	367.8	361.5	367.8	374.0	375.6	388.7	406.1	414.8	426.2	448.8
155°	383.7	379.1	374.5	379.1	383.7	384.9	394.9	408.2	414.8	423.8	441.8
157.5°	393.1	388.6	384.0	388.6	393.1	394.2	401.1	410.2	414.8	421.8	435.8
160°	397.5	394.1	390.5	394.1	397.5	398.4	403.9	411.2	414.8	420.8	432.9
162.5°	402.3	399.7	397.1	399.7	402.3	403.0	406.9	412.2	414.8	419.9	430.0
165°	408.8	406.4	404.1	406.4	408.8	409.4	411.2	413.6	414.8	418.4	425.7
167.5°	412.8	411.6	410.5	411.6	412.8	413.1	414.6	416.6	417.6	420.0	424.8
170°	417.1	415.9	414.8	415.9	417.1	417.3	417.4	417.5	417.6	420.0	424.8
172.5°	417.5	417.3	417.1	417.3	417.5	417.6	417.6	417.6	417.6	419.5	423.3
175°	420.2	420.2	420.2	420.2	420.2	420.2	419.3	418.2	417.6	418.8	421.2
177.5°	420.2	420.2	420.2	420.2	420.2	420.2	419.5	418.6	418.2	419.1	421.0
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934734

CATALOG NUMBER: SQ4-FA-075U-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°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	14.3	19.1	21.5	18.5
92.5°	53.6	51.5	42.9	34.4	42.9	51.5	53.6	76.0	105.8	120.7	106.0
95°	181.8	175.4	149.6	123.8	149.6	175.4	181.8	238.8	314.7	352.8	297.9
97.5°	419.9	407.6	358.5	309.4	358.5	407.6	419.9	455.9	503.8	527.9	436.4
100°	589.6	575.0	516.5	457.9	516.5	575.0	589.6	587.0	583.4	581.7	480.3
102.5°	734.5	722.0	671.9	621.7	671.9	722.0	734.5	688.7	627.6	597.0	494.1
105°	903.7	897.0	870.1	843.1	870.1	897.0	903.7	800.9	663.9	595.3	495.7
107.5°	991.7	993.3	999.9	1006.4	999.9	993.3	991.7	848.2	657.0	561.4	473.6
110°	1014.2	1021.2	1049.4	1077.5	1049.4	1021.2	1014.2	853.9	640.1	533.2	454.0



TEST NUMBER: P934734

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

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	999.9	1010.7	1053.8	1096.9	1053.8	1010.7	999.9	835.8	617.0	507.6	437.0
115°	951.1	966.0	1025.9	1085.7	1025.9	966.0	951.1	793.0	582.3	476.8	417.3
117.5°	883.7	900.3	966.6	1032.9	966.6	900.3	883.7	741.0	550.8	455.6	405.1
120°	838.3	854.4	918.8	983.2	918.8	854.4	838.3	708.0	534.1	447.2	401.0
122.5°	792.9	808.8	872.3	935.9	872.3	808.8	792.9	675.5	518.9	440.7	398.8
125°	732.9	747.5	806.0	864.5	806.0	747.5	732.9	633.2	500.2	433.7	397.1
127.5°	684.7	697.1	746.4	795.8	746.4	697.1	684.7	599.1	484.9	427.8	396.1
130°	654.2	665.6	711.2	756.8	711.2	665.6	654.2	578.0	476.4	425.5	396.6
132.5°	628.3	638.5	679.3	720.2	679.3	638.5	628.3	560.1	469.0	423.5	397.1
135°	591.6	600.5	635.7	670.9	635.7	600.5	591.6	534.5	458.3	420.2	396.7
137.5°	564.5	571.7	600.5	629.4	600.5	571.7	564.5	516.2	451.8	419.6	399.1
140°	542.8	549.5	576.5	603.5	576.5	549.5	542.8	501.0	445.4	417.6	399.5
142.5°	527.6	533.4	556.5	579.7	556.5	533.4	527.6	490.9	442.1	417.6	401.0
145°	504.8	509.1	526.7	544.2	526.7	509.1	504.8	474.7	434.8	414.8	401.0
147.5°	485.6	489.2	503.8	518.3	503.8	489.2	485.6	462.0	430.5	414.8	403.7
150°	474.6	477.5	489.3	501.1	489.3	477.5	474.6	454.6	428.1	414.8	405.2
152.5°	465.8	468.0	476.9	485.8	476.9	468.0	465.8	448.8	426.2	414.8	406.1
155°	455.4	456.8	462.7	468.6	462.7	456.8	455.4	441.8	423.8	414.8	408.2
157.5°	446.4	447.4	451.5	455.6	451.5	447.4	446.4	435.8	421.8	414.8	410.2
160°	441.9	442.4	444.8	447.2	444.8	442.4	441.9	432.9	420.8	414.8	411.2
162.5°	437.6	438.2	440.4	442.7	440.4	438.2	437.6	430.0	419.9	414.8	412.2
165°	431.2	431.8	434.2	436.5	434.2	431.8	431.2	425.7	418.4	414.8	413.6
167.5°	428.3	428.6	429.6	430.6	429.6	428.6	428.3	424.8	420.0	417.6	416.6
170°	428.3	428.3	428.3	428.3	428.3	428.3	428.3	424.8	420.0	417.6	417.5
172.5°	426.1	425.9	425.0	424.1	425.0	425.9	426.1	423.3	419.5	417.6	417.6
175°	423.0	423.0	423.0	423.0	423.0	423.0	423.0	421.2	418.8	417.6	418.2
177.5°	422.4	422.2	421.2	420.2	421.2	422.2	422.4	421.0	419.1	418.2	418.6
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934734

CATALOG NUMBER: SQ4-FA-075U-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°	12.5	7.9	7.4	5.1	2.8
92.5°	76.5	54.4	49.6	30.5	11.3
95°	188.3	106.1	97.3	62.2	27.1
97.5°	253.6	116.4	108.7	77.8	46.8
100°	277.3	125.2	118.2	90.1	62.0
102.5°	288.3	133.9	127.3	101.2	75.0
105°	296.4	146.9	141.4	119.2	97.0
107.5°	297.9	166.1	160.9	140.3	119.5
110°	295.6	176.8	172.2	153.5	134.8



TEST NUMBER: P934734

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

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	295.7	189.8	185.3	167.6	149.7
115°	298.5	209.2	205.1	188.7	172.3
117.5°	304.0	228.1	224.4	209.5	194.6
120°	308.5	239.1	235.6	221.6	207.6
122.5°	314.9	252.1	248.5	234.4	220.2
125°	323.7	268.7	265.5	252.6	239.7
127.5°	332.5	284.8	281.5	268.5	255.5
130°	338.8	295.5	292.0	278.0	264.0
132.5°	344.0	304.3	300.7	286.7	272.7
135°	349.7	314.4	311.2	298.4	285.6
137.5°	358.1	327.4	324.2	311.6	298.9
140°	363.3	336.1	333.2	321.6	309.9
142.5°	367.6	342.6	339.8	329.1	318.4
145°	373.2	352.5	350.1	340.8	331.3
147.5°	381.5	364.9	362.6	353.4	344.3
150°	385.9	371.4	369.3	361.0	352.8
152.5°	388.7	375.6	374.0	367.8	361.5
155°	394.9	384.9	383.7	379.1	374.5
157.5°	401.1	394.2	393.1	388.6	384.0
160°	403.9	398.4	397.5	394.1	390.5
162.5°	406.9	403.0	402.3	399.7	397.1
165°	411.2	409.4	408.8	406.4	404.1
167.5°	414.6	413.1	412.8	411.6	410.5
170°	417.4	417.3	417.1	415.9	414.8
172.5°	417.6	417.6	417.5	417.3	417.1
175°	419.3	420.2	420.2	420.2	420.2
177.5°	419.5	420.2	420.2	420.2	420.2
180°	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934734  
 CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-4-4000K

**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	12.19	13.03	13.17	14.02	15.33	14.99	15.83	15.96	16.82	18.12
	3H	12.67	13.42	13.65	14.42	15.74	16.32	17.08	17.31	18.08	19.40
	4H	12.86	13.57	13.86	14.57	15.91	16.76	17.47	17.76	18.47	19.81
	6H	12.98	13.63	13.99	14.64	15.98	17.04	17.69	18.05	18.70	20.04
	8H	12.98	13.60	13.99	14.63	15.97	17.11	17.73	18.12	18.75	20.10
	12H	12.95	13.54	13.97	14.56	15.92	17.14	17.73	18.16	18.75	20.12
4H	2H	13.21	13.93	14.22	14.93	16.26	15.40	16.11	16.40	17.11	18.45
	3H	14.24	14.83	15.25	15.86	17.21	16.89	17.49	17.91	18.52	19.86
	4H	14.51	15.06	15.54	16.08	17.45	17.41	17.96	18.43	18.98	20.35
	6H	14.64	15.11	15.67	16.15	17.52	17.77	18.24	18.80	19.28	20.65
	8H	14.64	15.08	15.68	16.12	17.50	17.87	18.31	18.90	19.35	20.73
	12H	14.61	15.00	15.66	16.06	17.44	17.92	18.32	18.97	19.37	20.75
8H	4H	14.96	15.40	16.00	16.44	17.82	17.54	17.97	18.57	19.01	20.39
	6H	15.22	15.58	16.28	16.66	18.04	17.96	18.32	19.02	19.41	20.78
	8H	15.26	15.58	16.33	16.65	18.04	18.11	18.43	19.18	19.49	20.89
	12H	15.25	15.53	16.32	16.59	18.03	18.20	18.48	19.27	19.54	20.98
12H	4H	14.97	15.36	16.02	16.41	17.80	17.50	17.89	18.55	18.95	20.33
	6H	15.28	15.60	16.35	16.66	18.06	17.96	18.28	19.03	19.34	20.74
	8H	15.35	15.63	16.42	16.69	18.13	18.12	18.40	19.19	19.46	20.89