

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: P934663

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

**Test Information**

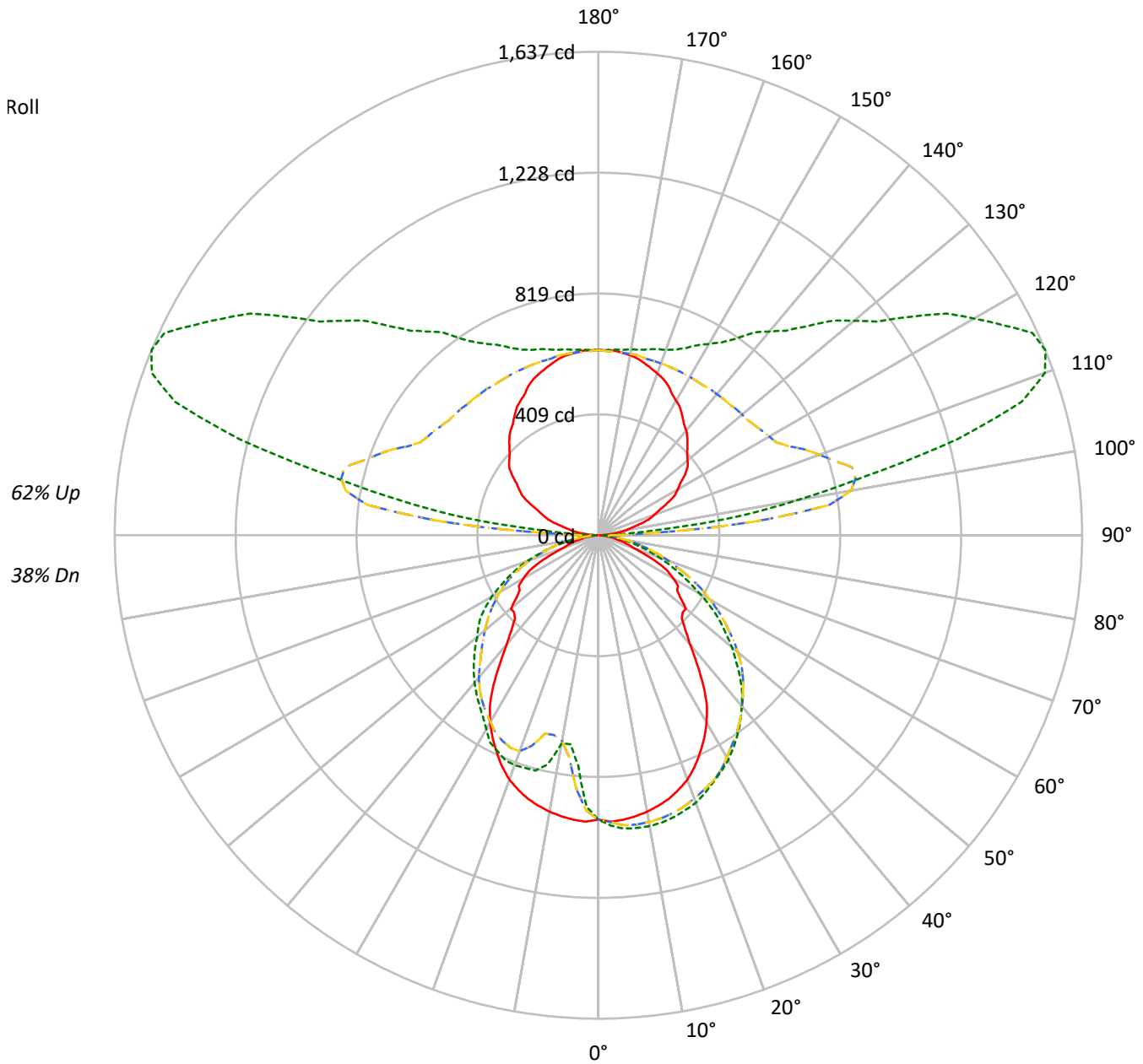
Test Method: LM-79-2019  
Report Number: P934663  
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6563.3 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 51.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-4000K

### 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				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

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

	0°	90°	180°	270°
0°	5954	5954	5954	5954
5°	5996	6010	5996	4726
10°	5954	5920	5954	4233
15°	5888	5792	5888	4837
20°	5762	5640	5762	4847
25°	5507	5419	5507	4744
30°	5180	5235	5180	4519
35°	4615	5002	4615	4270
40°	3843	4728	3843	4084
45°	3432	4407	3432	3868
50°	3643	4025	3643	3652
55°	3424	3613	3424	3527
60°	3526	3068	3526	3230
65°	3191	2536	3191	2835
70°	2203	2021	2203	2377
75°	1926	1494	1926	1789
80°	1540	987	1540	1075
85°	870	523	870	445

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5263 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.9	1.3
10°-20°	246.7	3.8
20°-30°	381.3	5.8
30°-40°	455.2	6.9
40°-50°	457.9	7.0
50°-60°	398.4	6.1
60°-70°	282.5	4.3
70°-80°	149.4	2.3
80°-90°	39.6	0.6
90°-100°	305.7	4.7
100°-110°	803.7	12.2
110°-120°	833.3	12.7
120°-130°	668.4	10.2
130°-140°	524.5	8.0
140°-150°	402.6	6.1
150°-160°	289.9	4.4
160°-170°	177.4	2.7
170°-180°	59.9	0.9
0°-30°	714.9	10.9
0°-40°	1170.1	17.8
0°-60°	2026.4	30.9
0°-90°	2497.9	38.1
90°-120°	1942.7	29.6
90°-150°	3538.2	53.9
90°-180°	4065.0	61.9
0°-180°	6563.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	962	962	962	962	962	
5°	967	997	967	784	967	92
15°	923	988	923	825	923	260
25°	813	922	813	807	813	373
35°	618	822	618	702	618	383
45°	399	677	399	595	399	319
55°	325	500	325	488	325	299
65°	226	301	226	337	226	216
75°	86	143	86	171	86	90
85°	15	36	15	31	15	20
90°	4	16	4	16	4	4
95°	40	185	40	185	40	45
105°	145	1258	145	1258	145	154
115°	257	1620	257	1620	257	254
125°	358	1290	358	1290	358	318
135°	426	1001	426	1001	426	330
145°	495	812	495	812	495	310
155°	559	700	559	700	559	257
165°	603	652	603	652	603	170
175°	627	631	627	631	627	60
180°	627	627	627	627	627	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	970.7	970.7	976.1	977.9	977.9	975.2	972.5	975.2	983.5	986.2	985.3
5°	967.0	974.3	984.4	986.2	988.0	987.1	985.3	987.1	996.1	998.0	998.9
7.5°	959.7	973.4	986.2	988.9	991.6	988.9	988.0	989.8	998.9	1000.7	1000.7
10°	950.6	969.8	984.4	986.2	988.9	986.2	986.2	989.8	998.9	1000.7	1001.7
12.5°	937.9	964.3	977.9	979.7	983.5	982.6	981.6	985.3	994.3	996.1	996.1
15°	923.4	954.3	967.0	968.9	975.2	973.4	973.4	977.0	987.1	989.8	988.9
17.5°	903.3	941.5	956.1	958.8	963.4	962.5	963.4	967.0	976.1	977.9	978.8
20°	880.5	924.3	941.5	944.3	948.8	948.8	948.8	953.4	962.5	966.1	966.1
22.5°	849.6	906.0	924.3	926.1	931.5	931.5	933.3	939.7	947.9	948.8	948.8
25°	813.1	886.0	901.4	907.0	912.4	915.1	917.8	921.5	924.3	923.4	924.3
27.5°	774.9	860.4	880.5	884.2	891.5	894.2	897.8	898.7	899.6	902.4	900.5
30°	732.1	825.0	855.0	858.6	870.5	872.3	868.7	870.5	875.0	876.9	878.7
32.5°	683.8	772.2	828.6	836.8	847.8	842.3	841.3	844.1	851.4	851.4	853.2
35°	618.3	731.2	804.1	811.3	819.5	813.1	816.8	817.7	822.2	825.0	824.1
37.5°	546.4	695.7	778.5	784.0	790.4	782.1	787.7	790.4	794.0	792.2	792.2
40°	482.6	640.1	748.5	752.1	757.6	751.2	756.7	758.5	760.3	758.5	757.6
42.5°	435.3	579.1	716.6	721.1	717.5	722.0	723.9	727.6	724.9	721.1	721.1
45°	398.8	562.7	682.0	687.5	682.0	689.3	692.0	692.0	683.8	682.0	681.1
47.5°	387.0	530.0	647.5	647.5	644.7	653.8	658.3	652.0	643.8	641.0	641.0
50°	386.1	493.5	600.0	596.4	609.2	620.1	615.5	609.2	602.8	592.8	592.8
52.5°	350.6	448.9	539.0	552.7	572.8	579.1	571.9	565.5	554.5	550.0	546.4
55°	325.0	402.4	483.5	510.9	531.8	539.9	526.4	519.9	503.5	500.8	499.0
57.5°	319.6	335.1	432.5	467.2	492.6	491.7	483.5	471.7	458.0	455.3	454.4
60°	293.2	242.2	377.9	418.9	445.2	442.5	435.3	424.3	411.6	409.8	408.0
62.5°	265.8	175.8	316.0	362.4	399.7	398.8	392.5	376.1	367.0	362.4	358.8
65°	225.8	147.5	224.9	301.4	355.1	356.9	343.3	331.5	321.4	316.0	315.1
67.5°	172.1	120.2	152.1	251.4	312.4	310.5	293.2	287.8	275.0	272.3	266.8
70°	127.4	80.1	105.6	203.9	270.5	265.8	252.3	245.8	234.0	227.6	224.0
72.5°	105.6	64.6	77.4	158.4	227.6	222.2	210.4	203.0	193.1	187.5	183.9
75°	85.6	68.2	59.2	117.5	184.8	181.2	170.3	163.0	154.8	147.5	148.4
77.5°	62.8	63.7	47.3	86.5	146.6	141.1	134.8	125.6	122.0	114.8	114.8
80°	47.3	50.1	35.5	59.2	105.6	105.6	100.2	93.8	87.4	83.8	83.8
82.5°	31.9	31.9	26.4	37.3	72.0	69.2	65.5	63.7	60.1	58.3	58.3
85°	14.6	18.2	16.4	22.7	39.2	41.0	41.0	39.2	38.3	36.4	37.3
87.5°	4.5	8.2	10.0	12.8	20.0	20.9	21.8	21.8	21.8	22.7	22.7
90°	4.2	7.5	11.0	11.8	18.5	27.4	32.0	28.4	21.4	16.0	16.0
92.5°	16.8	45.4	74.0	81.2	114.1	158.1	180.1	157.9	113.3	79.9	76.8
95°	40.4	92.8	145.1	158.2	281.0	444.7	526.5	469.9	356.5	271.5	261.9
97.5°	69.9	116.0	162.2	173.8	378.5	651.4	787.9	752.1	680.5	626.7	608.4
100°	92.6	134.5	176.4	186.9	414.0	716.9	868.3	870.9	876.2	880.1	858.3
102.5°	112.0	151.1	190.2	200.0	430.3	737.4	891.0	936.7	1028.0	1096.4	1077.7
105°	144.8	178.0	211.1	219.3	442.4	739.8	888.5	990.8	1195.4	1349.0	1338.9
107.5°	178.5	209.4	240.2	247.9	444.6	706.8	838.0	980.7	1266.2	1480.3	1482.7
110°	201.2	229.1	256.9	263.9	441.2	677.7	795.9	955.5	1274.6	1514.0	1524.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	223.5	250.0	276.6	283.2	441.4	652.2	757.6	920.9	1247.5	1492.4	1508.5
115°	257.2	281.7	306.1	312.3	445.4	622.9	711.7	869.0	1183.7	1419.7	1441.9
117.5°	290.4	312.6	334.9	340.5	453.8	604.6	680.1	822.2	1106.1	1319.1	1343.8
120°	309.7	330.7	351.7	356.9	460.5	598.5	667.6	797.3	1056.7	1251.3	1275.4
122.5°	328.8	349.8	371.0	376.3	470.1	595.3	657.9	774.6	1008.3	1183.5	1207.2
125°	357.7	377.0	396.3	401.1	483.2	592.6	647.4	746.6	945.1	1093.9	1115.7
127.5°	381.3	400.8	420.2	425.1	496.2	591.1	638.5	723.7	894.1	1021.9	1040.4
130°	393.9	414.9	435.8	441.1	505.8	592.1	635.2	711.0	862.7	976.5	993.5
132.5°	407.0	428.0	448.9	454.1	513.5	592.6	632.2	700.1	835.9	937.7	953.0
135°	426.3	445.4	464.5	469.3	521.9	592.1	627.1	683.9	797.7	883.0	896.1
137.5°	446.2	465.0	483.9	488.6	534.5	595.7	626.3	674.3	770.5	842.6	853.4
140°	462.5	479.9	497.4	501.7	542.3	596.3	623.3	664.8	747.9	810.2	820.3
142.5°	475.2	491.3	507.4	511.4	548.7	598.4	623.3	659.8	732.7	787.5	796.2
145°	494.6	508.6	522.5	526.1	557.1	598.5	619.1	649.0	708.7	753.4	759.9
147.5°	513.9	527.5	541.2	544.6	569.4	602.6	619.1	642.6	689.6	724.8	730.2
150°	526.5	538.8	551.2	554.3	576.0	604.7	619.1	639.0	678.6	708.4	712.8
152.5°	539.6	549.0	558.3	560.7	580.1	606.1	619.1	636.1	669.9	695.3	698.7
155°	558.9	565.8	572.8	574.5	589.4	609.2	619.1	632.6	659.6	679.8	681.9
157.5°	573.2	580.0	586.7	588.4	598.7	612.3	619.1	629.6	650.5	666.3	667.8
160°	582.9	588.2	593.4	594.7	602.8	613.7	619.1	628.1	646.0	659.5	660.4
162.5°	592.6	596.6	600.5	601.5	607.4	615.2	619.1	626.7	641.8	653.3	654.1
165°	603.1	606.7	610.3	611.2	613.8	617.3	619.1	624.6	635.4	643.6	644.5
167.5°	612.8	614.5	616.1	616.6	618.9	621.8	623.3	626.8	634.0	639.3	639.7
170°	619.1	620.8	622.5	622.9	623.0	623.2	623.3	626.8	634.0	639.3	639.3
172.5°	622.5	622.8	623.2	623.3	623.3	623.3	623.3	626.1	631.7	636.0	635.6
175°	627.1	627.1	627.1	627.1	625.8	624.1	623.3	625.1	628.6	631.3	631.3
177.5°	627.1	627.1	627.1	627.1	626.1	624.8	624.2	625.6	628.5	630.5	630.2
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	987.1	984.4	987.1	985.3	986.2	983.5	975.2	972.5	975.2	977.9	977.9
5°	998.9	997.0	998.9	998.9	998.0	996.1	987.1	985.3	987.1	988.0	986.2
7.5°	1002.6	999.8	1002.6	1000.7	1000.7	998.9	989.8	988.0	988.9	991.6	988.9
10°	1002.6	999.8	1002.6	1001.7	1000.7	998.9	989.8	986.2	986.2	988.9	986.2
12.5°	998.0	996.1	998.0	996.1	996.1	994.3	985.3	981.6	982.6	983.5	979.7
15°	990.7	988.0	990.7	988.9	989.8	987.1	977.0	973.4	973.4	975.2	968.9
17.5°	979.7	976.1	979.7	978.8	977.9	976.1	967.0	963.4	962.5	963.4	958.8
20°	967.0	964.3	967.0	966.1	966.1	962.5	953.4	948.8	948.8	948.8	944.3
22.5°	947.0	944.3	947.0	948.8	948.8	947.9	939.7	933.3	931.5	931.5	926.1
25°	924.3	921.5	924.3	924.3	923.4	924.3	921.5	917.8	915.1	912.4	907.0
27.5°	902.4	900.5	902.4	900.5	902.4	899.6	898.7	897.8	894.2	891.5	884.2
30°	880.5	878.7	880.5	878.7	876.9	875.0	870.5	868.7	872.3	870.5	858.6
32.5°	853.2	851.4	853.2	853.2	851.4	851.4	844.1	841.3	842.3	847.8	836.8
35°	825.0	822.2	825.0	824.1	825.0	822.2	817.7	816.8	813.1	819.5	811.3
37.5°	792.2	789.5	792.2	792.2	792.2	794.0	790.4	787.7	782.1	790.4	784.0
40°	758.5	754.9	758.5	757.6	758.5	760.3	758.5	756.7	751.2	757.6	752.1
42.5°	720.2	719.3	720.2	721.1	721.1	724.9	727.6	723.9	722.0	717.5	721.1
45°	679.3	677.4	679.3	681.1	682.0	683.8	692.0	692.0	689.3	682.0	687.5
47.5°	635.6	631.0	635.6	641.0	641.0	643.8	652.0	658.3	653.8	644.7	647.5
50°	589.2	590.1	589.2	592.8	592.8	602.8	609.2	615.5	620.1	609.2	596.4
52.5°	543.6	542.7	543.6	546.4	550.0	554.5	565.5	571.9	579.1	572.8	552.7
55°	498.1	499.9	498.1	499.0	500.8	503.5	519.9	526.4	539.9	531.8	510.9
57.5°	452.6	449.9	452.6	454.4	455.3	458.0	471.7	483.5	491.7	492.6	467.2
60°	399.7	396.1	399.7	408.0	409.8	411.6	424.3	435.3	442.5	445.2	418.9
62.5°	353.3	346.9	353.3	358.8	362.4	367.0	376.1	392.5	398.8	399.7	362.4
65°	304.1	301.4	304.1	315.1	316.0	321.4	331.5	343.3	356.9	355.1	301.4
67.5°	259.5	259.5	259.5	266.8	272.3	275.0	287.8	293.2	310.5	312.4	251.4
70°	218.5	217.6	218.5	224.0	227.6	234.0	245.8	252.3	265.8	270.5	203.9
72.5°	179.4	178.5	179.4	183.9	187.5	193.1	203.0	210.4	222.2	227.6	158.4
75°	144.8	142.9	144.8	148.4	147.5	154.8	163.0	170.3	181.2	184.8	117.5
77.5°	111.1	111.1	111.1	114.8	114.8	122.0	125.6	134.8	141.1	146.6	86.5
80°	82.8	81.9	82.8	83.8	83.8	87.4	93.8	100.2	105.6	105.6	59.2
82.5°	58.3	56.5	58.3	58.3	58.3	60.1	63.7	65.5	69.2	72.0	37.3
85°	36.4	36.4	36.4	37.3	36.4	38.3	39.2	41.0	41.0	39.2	22.7
87.5°	23.7	22.7	23.7	22.7	22.7	21.8	21.8	21.8	20.9	20.0	12.8
90°	16.0	16.0	16.0	16.0	16.0	21.4	28.4	32.0	27.4	18.5	11.8
92.5°	64.0	51.3	64.0	76.8	79.9	113.3	157.9	180.1	158.1	114.1	81.2
95°	223.3	184.7	223.3	261.9	271.5	356.5	469.9	526.5	444.7	281.0	158.2
97.5°	535.0	461.7	535.0	608.4	626.7	680.5	752.1	787.9	651.4	378.5	173.8
100°	770.8	683.5	770.8	858.3	880.1	876.2	870.9	868.3	716.9	414.0	186.9
102.5°	1002.9	928.1	1002.9	1077.7	1096.4	1028.0	936.7	891.0	737.4	430.3	200.0
105°	1298.6	1258.4	1298.6	1338.9	1349.0	1195.4	990.8	888.5	739.8	442.4	219.3
107.5°	1492.4	1502.1	1492.4	1482.7	1480.3	1266.2	980.7	838.0	706.8	444.6	247.9
110°	1566.3	1608.2	1566.3	1524.5	1514.0	1274.6	955.5	795.9	677.7	441.2	263.9





TEST NUMBER: P934663

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1572.9	1637.3	1572.9	1508.5	1492.4	1247.5	920.9	757.6	652.2	441.4	283.2
115°	1531.2	1620.4	1531.2	1441.9	1419.7	1183.7	869.0	711.7	622.9	445.4	312.3
117.5°	1442.7	1541.7	1442.7	1343.8	1319.1	1106.1	822.2	680.1	604.6	453.8	340.5
120°	1371.5	1467.6	1371.5	1275.4	1251.3	1056.7	797.3	667.6	598.5	460.5	356.9
122.5°	1302.1	1396.9	1302.1	1207.2	1183.5	1008.3	774.6	657.9	595.3	470.1	376.3
125°	1203.1	1290.5	1203.1	1115.7	1093.9	945.1	746.6	647.4	592.6	483.2	401.1
127.5°	1114.1	1187.8	1114.1	1040.4	1021.9	894.1	723.7	638.5	591.1	496.2	425.1
130°	1061.6	1129.6	1061.6	993.5	976.5	862.7	711.0	635.2	592.1	505.8	441.1
132.5°	1014.0	1075.0	1014.0	953.0	937.7	835.9	700.1	632.2	592.6	513.5	454.1
135°	948.7	1001.3	948.7	896.1	883.0	797.7	683.9	627.1	592.1	521.9	469.3
137.5°	896.4	939.5	896.4	853.4	842.6	770.5	674.3	626.3	595.7	534.5	488.6
140°	860.5	900.7	860.5	820.3	810.2	747.9	664.8	623.3	596.3	542.3	501.7
142.5°	830.8	865.3	830.8	796.2	787.5	732.7	659.8	623.3	598.4	548.7	511.4
145°	786.1	812.3	786.1	759.9	753.4	708.7	649.0	619.1	598.5	557.1	526.1
147.5°	751.8	773.6	751.8	730.2	724.8	689.6	642.6	619.1	602.6	569.4	544.6
150°	730.4	747.9	730.4	712.8	708.4	678.6	639.0	619.1	604.7	576.0	554.3
152.5°	711.9	725.2	711.9	698.7	695.3	669.9	636.1	619.1	606.1	580.1	560.7
155°	690.7	699.5	690.7	681.9	679.8	659.6	632.6	619.1	609.2	589.4	574.5
157.5°	674.0	680.1	674.0	667.8	666.3	650.5	629.6	619.1	612.3	598.7	588.4
160°	663.9	667.6	663.9	660.4	659.5	646.0	628.1	619.1	613.7	602.8	594.7
162.5°	657.4	660.8	657.4	654.1	653.3	641.8	626.7	619.1	615.2	607.4	601.5
165°	648.0	651.5	648.0	644.5	643.6	635.4	624.6	619.1	617.3	613.8	611.2
167.5°	641.2	642.7	641.2	639.7	639.3	634.0	626.8	623.3	621.8	618.9	616.6
170°	639.3	639.3	639.3	639.3	639.3	634.0	626.8	623.3	623.2	623.0	622.9
172.5°	634.3	633.0	634.3	635.6	636.0	631.7	626.1	623.3	623.3	623.3	623.3
175°	631.3	631.3	631.3	631.3	631.3	628.6	625.1	623.3	624.1	625.8	627.1
177.5°	628.6	627.1	628.6	630.2	630.5	628.5	625.6	624.2	624.8	626.1	627.1
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



TEST NUMBER: P934663

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	976.1	970.7	970.7	961.6	957.9	955.2	950.6	937.0	933.3	929.7	935.1
5°	984.4	974.3	967.0	950.6	937.0	931.5	914.2	881.4	859.5	843.2	834.1
7.5°	986.2	973.4	959.7	934.2	901.4	886.9	834.1	774.0	757.6	743.0	733.9
10°	984.4	969.8	950.6	912.4	835.0	809.5	756.7	717.5	707.5	704.8	707.5
12.5°	977.9	964.3	937.9	874.1	765.8	748.5	717.5	694.8	692.9	697.5	722.0
15°	967.0	954.3	923.4	823.2	727.6	714.8	692.9	684.8	694.8	726.7	800.4
17.5°	956.1	941.5	903.3	773.1	698.4	689.3	673.8	690.2	746.7	789.5	814.0
20°	941.5	924.3	880.5	736.6	677.4	669.3	661.9	735.7	778.5	794.0	807.7
22.5°	924.3	906.0	849.6	711.2	655.6	649.3	653.8	761.2	778.5	789.5	801.3
25°	901.4	886.0	813.1	691.1	638.3	631.0	648.4	758.5	768.5	771.3	794.9
27.5°	880.5	860.4	774.9	672.9	617.4	614.6	652.9	746.7	754.0	756.7	782.1
30°	855.0	825.0	732.1	653.8	595.5	594.6	653.8	732.1	730.3	737.5	763.1
32.5°	828.6	772.2	683.8	630.1	574.6	573.7	647.5	710.3	708.5	718.4	737.5
35°	804.1	731.2	618.3	602.8	548.2	549.1	631.9	684.8	685.7	694.8	706.6
37.5°	778.5	695.7	546.4	572.8	522.6	522.6	611.0	661.0	659.2	661.9	678.4
40°	748.5	640.1	482.6	533.6	499.0	496.3	585.5	635.6	629.2	628.3	651.1
42.5°	716.6	579.1	435.3	481.7	471.7	468.1	554.5	604.6	592.8	595.5	624.7
45°	682.0	562.7	398.8	407.1	443.4	440.7	520.8	569.1	560.9	568.2	598.2
47.5°	647.5	530.0	387.0	337.8	413.4	412.5	483.5	534.5	530.0	537.2	569.1
50°	600.0	493.5	386.1	289.6	379.7	383.3	438.9	500.8	500.8	507.2	540.9
52.5°	539.0	448.9	350.6	262.2	340.5	351.5	399.7	471.7	473.5	479.9	509.9
55°	483.5	402.4	325.0	241.3	294.1	317.8	361.5	441.6	445.2	451.7	478.9
57.5°	432.5	335.1	319.6	216.7	251.4	274.1	327.8	412.5	414.3	419.8	446.2
60°	377.9	242.2	293.2	190.3	214.0	231.3	296.8	377.9	384.2	387.9	410.7
62.5°	316.0	175.8	265.8	172.1	195.8	199.4	271.4	345.1	353.3	356.0	369.7
65°	224.9	147.5	225.8	156.6	176.7	177.6	244.0	311.4	318.7	323.2	333.3
67.5°	152.1	120.2	172.1	142.0	162.1	163.0	217.6	272.3	282.3	285.9	292.3
70°	105.6	80.1	127.4	126.5	145.7	147.5	189.4	236.8	245.8	248.6	252.3
72.5°	77.4	64.6	105.6	113.8	128.4	130.3	160.3	196.7	205.8	208.5	210.4
75°	59.2	68.2	85.6	99.3	109.3	110.2	131.2	160.3	166.6	168.5	169.4
77.5°	47.3	63.7	62.8	80.1	89.2	87.4	102.9	123.8	129.3	129.3	129.3
80°	35.5	50.1	47.3	57.4	65.5	63.7	73.8	88.3	90.2	92.0	91.1
82.5°	26.4	31.9	31.9	36.4	43.7	41.9	49.2	57.4	57.4	57.4	59.2
85°	16.4	18.2	14.6	19.1	24.6	23.7	27.3	31.0	31.9	31.9	30.1
87.5°	10.0	8.2	4.5	7.2	11.0	11.0	12.8	13.7	12.8	12.8	12.8
90°	11.0	7.5	4.2	7.5	11.0	11.8	18.5	27.4	32.0	28.4	21.4
92.5°	74.0	45.4	16.8	45.4	74.0	81.2	114.1	158.1	180.1	157.9	113.3
95°	145.1	92.8	40.4	92.8	145.1	158.2	281.0	444.7	526.5	469.9	356.5
97.5°	162.2	116.0	69.9	116.0	162.2	173.8	378.5	651.4	787.9	752.1	680.5
100°	176.4	134.5	92.6	134.5	176.4	186.9	414.0	716.9	868.3	870.9	876.2
102.5°	190.2	151.1	112.0	151.1	190.2	200.0	430.3	737.4	891.0	936.7	1028.0
105°	211.1	178.0	144.8	178.0	211.1	219.3	442.4	739.8	888.5	990.8	1195.4
107.5°	240.2	209.4	178.5	209.4	240.2	247.9	444.6	706.8	838.0	980.7	1266.2
110°	256.9	229.1	201.2	229.1	256.9	263.9	441.2	677.7	795.9	955.5	1274.6



TEST NUMBER: P934663

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	276.6	250.0	223.5	250.0	276.6	283.2	441.4	652.2	757.6	920.9	1247.5
115°	306.1	281.7	257.2	281.7	306.1	312.3	445.4	622.9	711.7	869.0	1183.7
117.5°	334.9	312.6	290.4	312.6	334.9	340.5	453.8	604.6	680.1	822.2	1106.1
120°	351.7	330.7	309.7	330.7	351.7	356.9	460.5	598.5	667.6	797.3	1056.7
122.5°	371.0	349.8	328.8	349.8	371.0	376.3	470.1	595.3	657.9	774.6	1008.3
125°	396.3	377.0	357.7	377.0	396.3	401.1	483.2	592.6	647.4	746.6	945.1
127.5°	420.2	400.8	381.3	400.8	420.2	425.1	496.2	591.1	638.5	723.7	894.1
130°	435.8	414.9	393.9	414.9	435.8	441.1	505.8	592.1	635.2	711.0	862.7
132.5°	448.9	428.0	407.0	428.0	448.9	454.1	513.5	592.6	632.2	700.1	835.9
135°	464.5	445.4	426.3	445.4	464.5	469.3	521.9	592.1	627.1	683.9	797.7
137.5°	483.9	465.0	446.2	465.0	483.9	488.6	534.5	595.7	626.3	674.3	770.5
140°	497.4	479.9	462.5	479.9	497.4	501.7	542.3	596.3	623.3	664.8	747.9
142.5°	507.4	491.3	475.2	491.3	507.4	511.4	548.7	598.4	623.3	659.8	732.7
145°	522.5	508.6	494.6	508.6	522.5	526.1	557.1	598.5	619.1	649.0	708.7
147.5°	541.2	527.5	513.9	527.5	541.2	544.6	569.4	602.6	619.1	642.6	689.6
150°	551.2	538.8	526.5	538.8	551.2	554.3	576.0	604.7	619.1	639.0	678.6
152.5°	558.3	549.0	539.6	549.0	558.3	560.7	580.1	606.1	619.1	636.1	669.9
155°	572.8	565.8	558.9	565.8	572.8	574.5	589.4	609.2	619.1	632.6	659.6
157.5°	586.7	580.0	573.2	580.0	586.7	588.4	598.7	612.3	619.1	629.6	650.5
160°	593.4	588.2	582.9	588.2	593.4	594.7	602.8	613.7	619.1	628.1	646.0
162.5°	600.5	596.6	592.6	596.6	600.5	601.5	607.4	615.2	619.1	626.7	641.8
165°	610.3	606.7	603.1	606.7	610.3	611.2	613.8	617.3	619.1	624.6	635.4
167.5°	616.1	614.5	612.8	614.5	616.1	616.6	618.9	621.8	623.3	626.8	634.0
170°	622.5	620.8	619.1	620.8	622.5	622.9	623.0	623.2	623.3	626.8	634.0
172.5°	623.2	622.8	622.5	622.8	623.2	623.3	623.3	623.3	623.3	626.1	631.7
175°	627.1	627.1	627.1	627.1	627.1	627.1	625.8	624.1	623.3	625.1	628.6
177.5°	627.1	627.1	627.1	627.1	627.1	627.1	626.1	624.8	624.2	625.6	628.5
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



TEST NUMBER: P934663

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	928.8	926.1	929.7	919.6	929.7	926.1	928.8	935.1	929.7	933.3	937.0
5°	815.0	810.4	795.8	784.0	795.8	810.4	815.0	834.1	843.2	859.5	881.4
7.5°	728.5	724.9	721.1	713.9	721.1	724.9	728.5	733.9	743.0	757.6	774.0
10°	709.4	710.3	715.7	714.8	715.7	710.3	709.4	707.5	704.8	707.5	717.5
12.5°	758.5	766.7	796.7	794.9	796.7	766.7	758.5	722.0	697.5	692.9	694.8
15°	815.0	817.7	824.1	825.0	824.1	817.7	815.0	800.4	726.7	694.8	684.8
17.5°	820.4	821.3	825.9	825.9	825.9	821.3	820.4	814.0	789.5	746.7	690.2
20°	815.9	817.7	826.8	828.6	826.8	817.7	815.9	807.7	794.0	778.5	735.7
22.5°	814.0	817.7	825.0	824.1	825.0	817.7	814.0	801.3	789.5	778.5	761.2
25°	805.0	805.0	805.9	806.8	805.9	805.0	805.0	794.9	771.3	768.5	758.5
27.5°	785.9	787.7	793.1	792.2	793.1	787.7	785.9	782.1	756.7	754.0	746.7
30°	768.5	766.7	762.1	758.5	762.1	766.7	768.5	763.1	737.5	730.3	732.1
32.5°	739.4	734.8	730.3	727.6	730.3	734.8	739.4	737.5	718.4	708.5	710.3
35°	704.8	705.7	704.8	702.0	704.8	705.7	704.8	706.6	694.8	685.7	684.8
37.5°	680.2	682.0	681.1	677.4	681.1	682.0	680.2	678.4	661.9	659.2	661.0
40°	654.7	655.6	654.7	652.0	654.7	655.6	654.7	651.1	628.3	629.2	635.6
42.5°	630.1	629.2	626.5	624.7	626.5	629.2	630.1	624.7	595.5	592.8	604.6
45°	601.9	602.8	597.3	594.6	597.3	602.8	601.9	598.2	568.2	560.9	569.1
47.5°	573.7	573.7	569.1	566.4	569.1	573.7	573.7	569.1	537.2	530.0	534.5
50°	543.6	542.7	536.3	535.4	536.3	542.7	543.6	540.9	507.2	500.8	500.8
52.5°	509.0	509.0	509.9	511.8	509.9	509.0	509.0	509.9	479.9	473.5	471.7
55°	478.9	479.9	486.3	488.1	486.3	479.9	478.9	478.9	451.7	445.2	441.6
57.5°	448.0	448.0	452.6	452.6	452.6	448.0	448.0	446.2	419.8	414.3	412.5
60°	412.5	414.3	417.9	417.0	417.9	414.3	412.5	410.7	387.9	384.2	377.9
62.5°	375.2	377.0	377.9	376.1	377.9	377.0	375.2	369.7	356.0	353.3	345.1
65°	336.0	337.8	338.7	336.9	338.7	337.8	336.0	333.3	323.2	318.7	311.4
67.5°	295.9	295.0	294.1	297.8	294.1	295.0	295.9	292.3	285.9	282.3	272.3
70°	255.0	255.0	254.1	255.9	254.1	255.0	255.0	252.3	248.6	245.8	236.8
72.5°	211.3	210.4	214.0	211.3	214.0	210.4	211.3	210.4	208.5	205.8	196.7
75°	168.5	170.3	168.5	171.2	168.5	170.3	168.5	169.4	168.5	166.6	160.3
77.5°	128.4	130.3	128.4	128.4	128.4	130.3	128.4	129.3	129.3	129.3	123.8
80°	91.1	90.2	90.2	89.2	90.2	90.2	91.1	91.1	92.0	90.2	88.3
82.5°	58.3	57.4	57.4	59.2	57.4	57.4	58.3	59.2	57.4	57.4	57.4
85°	31.9	32.8	31.0	31.0	31.0	32.8	31.9	30.1	31.9	31.9	31.0
87.5°	11.9	11.0	11.0	11.0	11.0	11.0	11.9	12.8	12.8	12.8	13.7
90°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	21.4	28.4	32.0	27.4
92.5°	79.9	76.8	64.0	51.3	64.0	76.8	79.9	113.3	157.9	180.1	158.1
95°	271.5	261.9	223.3	184.7	223.3	261.9	271.5	356.5	469.9	526.5	444.7
97.5°	626.7	608.4	535.0	461.7	535.0	608.4	626.7	680.5	752.1	787.9	651.4
100°	880.1	858.3	770.8	683.5	770.8	858.3	880.1	876.2	870.9	868.3	716.9
102.5°	1096.4	1077.7	1002.9	928.1	1002.9	1077.7	1096.4	1028.0	936.7	891.0	737.4
105°	1349.0	1338.9	1298.6	1258.4	1298.6	1338.9	1349.0	1195.4	990.8	888.5	739.8
107.5°	1480.3	1482.7	1492.4	1502.1	1492.4	1482.7	1480.3	1266.2	980.7	838.0	706.8
110°	1514.0	1524.5	1566.3	1608.2	1566.3	1524.5	1514.0	1274.6	955.5	795.9	677.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1492.4	1508.5	1572.9	1637.3	1572.9	1508.5	1492.4	1247.5	920.9	757.6	652.2
115°	1419.7	1441.9	1531.2	1620.4	1531.2	1441.9	1419.7	1183.7	869.0	711.7	622.9
117.5°	1319.1	1343.8	1442.7	1541.7	1442.7	1343.8	1319.1	1106.1	822.2	680.1	604.6
120°	1251.3	1275.4	1371.5	1467.6	1371.5	1275.4	1251.3	1056.7	797.3	667.6	598.5
122.5°	1183.5	1207.2	1302.1	1396.9	1302.1	1207.2	1183.5	1008.3	774.6	657.9	595.3
125°	1093.9	1115.7	1203.1	1290.5	1203.1	1115.7	1093.9	945.1	746.6	647.4	592.6
127.5°	1021.9	1040.4	1114.1	1187.8	1114.1	1040.4	1021.9	894.1	723.7	638.5	591.1
130°	976.5	993.5	1061.6	1129.6	1061.6	993.5	976.5	862.7	711.0	635.2	592.1
132.5°	937.7	953.0	1014.0	1075.0	1014.0	953.0	937.7	835.9	700.1	632.2	592.6
135°	883.0	896.1	948.7	1001.3	948.7	896.1	883.0	797.7	683.9	627.1	592.1
137.5°	842.6	853.4	896.4	939.5	896.4	853.4	842.6	770.5	674.3	626.3	595.7
140°	810.2	820.3	860.5	900.7	860.5	820.3	810.2	747.9	664.8	623.3	596.3
142.5°	787.5	796.2	830.8	865.3	830.8	796.2	787.5	732.7	659.8	623.3	598.4
145°	753.4	759.9	786.1	812.3	786.1	759.9	753.4	708.7	649.0	619.1	598.5
147.5°	724.8	730.2	751.8	773.6	751.8	730.2	724.8	689.6	642.6	619.1	602.6
150°	708.4	712.8	730.4	747.9	730.4	712.8	708.4	678.6	639.0	619.1	604.7
152.5°	695.3	698.7	711.9	725.2	711.9	698.7	695.3	669.9	636.1	619.1	606.1
155°	679.8	681.9	690.7	699.5	690.7	681.9	679.8	659.6	632.6	619.1	609.2
157.5°	666.3	667.8	674.0	680.1	674.0	667.8	666.3	650.5	629.6	619.1	612.3
160°	659.5	660.4	663.9	667.6	663.9	660.4	659.5	646.0	628.1	619.1	613.7
162.5°	653.3	654.1	657.4	660.8	657.4	654.1	653.3	641.8	626.7	619.1	615.2
165°	643.6	644.5	648.0	651.5	648.0	644.5	643.6	635.4	624.6	619.1	617.3
167.5°	639.3	639.7	641.2	642.7	641.2	639.7	639.3	634.0	626.8	623.3	621.8
170°	639.3	639.3	639.3	639.3	639.3	639.3	639.3	634.0	626.8	623.3	623.2
172.5°	636.0	635.6	634.3	633.0	634.3	635.6	636.0	631.7	626.1	623.3	623.3
175°	631.3	631.3	631.3	631.3	631.3	631.3	631.3	628.6	625.1	623.3	624.1
177.5°	630.5	630.2	628.6	627.1	628.6	630.2	630.5	628.5	625.6	624.2	624.8
180°	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1	627.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	962.5	962.5	962.5	962.5	962.5
2.5°	950.6	955.2	957.9	961.6	970.7
5°	914.2	931.5	937.0	950.6	967.0
7.5°	834.1	886.9	901.4	934.2	959.7
10°	756.7	809.5	835.0	912.4	950.6
12.5°	717.5	748.5	765.8	874.1	937.9
15°	692.9	714.8	727.6	823.2	923.4
17.5°	673.8	689.3	698.4	773.1	903.3
20°	661.9	669.3	677.4	736.6	880.5
22.5°	653.8	649.3	655.6	711.2	849.6
25°	648.4	631.0	638.3	691.1	813.1
27.5°	652.9	614.6	617.4	672.9	774.9
30°	653.8	594.6	595.5	653.8	732.1
32.5°	647.5	573.7	574.6	630.1	683.8
35°	631.9	549.1	548.2	602.8	618.3
37.5°	611.0	522.6	522.6	572.8	546.4
40°	585.5	496.3	499.0	533.6	482.6
42.5°	554.5	468.1	471.7	481.7	435.3
45°	520.8	440.7	443.4	407.1	398.8
47.5°	483.5	412.5	413.4	337.8	387.0
50°	438.9	383.3	379.7	289.6	386.1
52.5°	399.7	351.5	340.5	262.2	350.6
55°	361.5	317.8	294.1	241.3	325.0
57.5°	327.8	274.1	251.4	216.7	319.6
60°	296.8	231.3	214.0	190.3	293.2
62.5°	271.4	199.4	195.8	172.1	265.8
65°	244.0	177.6	176.7	156.6	225.8
67.5°	217.6	163.0	162.1	142.0	172.1
70°	189.4	147.5	145.7	126.5	127.4
72.5°	160.3	130.3	128.4	113.8	105.6
75°	131.2	110.2	109.3	99.3	85.6
77.5°	102.9	87.4	89.2	80.1	62.8
80°	73.8	63.7	65.5	57.4	47.3
82.5°	49.2	41.9	43.7	36.4	31.9
85°	27.3	23.7	24.6	19.1	14.6
87.5°	12.8	11.0	11.0	7.2	4.5
90°	18.5	11.8	11.0	7.5	4.2
92.5°	114.1	81.2	74.0	45.4	16.8
95°	281.0	158.2	145.1	92.8	40.4
97.5°	378.5	173.8	162.2	116.0	69.9
100°	414.0	186.9	176.4	134.5	92.6
102.5°	430.3	200.0	190.2	151.1	112.0
105°	442.4	219.3	211.1	178.0	144.8
107.5°	444.6	247.9	240.2	209.4	178.5
110°	441.2	263.9	256.9	229.1	201.2



TEST NUMBER: P934663

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	441.4	283.2	276.6	250.0	223.5
115°	445.4	312.3	306.1	281.7	257.2
117.5°	453.8	340.5	334.9	312.6	290.4
120°	460.5	356.9	351.7	330.7	309.7
122.5°	470.1	376.3	371.0	349.8	328.8
125°	483.2	401.1	396.3	377.0	357.7
127.5°	496.2	425.1	420.2	400.8	381.3
130°	505.8	441.1	435.8	414.9	393.9
132.5°	513.5	454.1	448.9	428.0	407.0
135°	521.9	469.3	464.5	445.4	426.3
137.5°	534.5	488.6	483.9	465.0	446.2
140°	542.3	501.7	497.4	479.9	462.5
142.5°	548.7	511.4	507.4	491.3	475.2
145°	557.1	526.1	522.5	508.6	494.6
147.5°	569.4	544.6	541.2	527.5	513.9
150°	576.0	554.3	551.2	538.8	526.5
152.5°	580.1	560.7	558.3	549.0	539.6
155°	589.4	574.5	572.8	565.8	558.9
157.5°	598.7	588.4	586.7	580.0	573.2
160°	602.8	594.7	593.4	588.2	582.9
162.5°	607.4	601.5	600.5	596.6	592.6
165°	613.8	611.2	610.3	606.7	603.1
167.5°	618.9	616.6	616.1	614.5	612.8
170°	623.0	622.9	622.5	620.8	619.1
172.5°	623.3	623.3	623.2	622.8	622.5
175°	625.8	627.1	627.1	627.1	627.1
177.5°	626.1	627.1	627.1	627.1	627.1
180°	627.1	627.1	627.1	627.1	627.1



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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	9.79	10.55	10.84	11.61	13.04	12.61	13.37	13.66	14.43	15.86
	3H	10.25	10.94	11.32	12.00	13.45	13.95	14.63	15.01	15.70	17.15
	4H	10.44	11.09	11.52	12.16	13.61	14.38	15.03	15.46	16.10	17.56
	6H	10.55	11.15	11.64	12.22	13.69	14.66	15.26	15.75	16.33	17.80
	8H	10.55	11.12	11.64	12.21	13.67	14.73	15.30	15.82	16.39	17.85
	12H	10.52	11.06	11.61	12.14	13.63	14.77	15.31	15.86	16.39	17.88
4H	2H	10.80	11.45	11.89	12.52	13.98	13.01	13.65	14.09	14.72	16.18
	3H	11.82	12.36	12.91	13.46	14.93	14.50	15.04	15.59	16.14	17.61
	4H	12.09	12.59	13.19	13.67	15.17	15.02	15.52	16.12	16.60	18.10
	6H	12.21	12.64	13.32	13.75	15.23	15.38	15.81	16.48	16.92	18.40
	8H	12.22	12.61	13.32	13.71	15.22	15.49	15.88	16.59	16.98	18.48
	12H	12.18	12.54	13.30	13.65	15.16	15.54	15.90	16.66	17.01	18.52
8H	4H	12.54	12.94	13.64	14.04	15.54	15.14	15.54	16.24	16.64	18.14
	6H	12.80	13.12	13.92	14.27	15.76	15.57	15.90	16.70	17.04	18.54
	8H	12.84	13.12	13.97	14.25	15.77	15.72	16.01	16.85	17.13	18.65
	12H	12.82	13.07	13.95	14.19	15.74	15.81	16.07	16.95	17.19	18.74
12H	4H	12.54	12.90	13.66	14.01	15.52	15.10	15.46	16.22	16.57	18.08
	6H	12.86	13.14	13.99	14.27	15.78	15.57	15.86	16.70	16.98	18.50
	8H	12.92	13.17	14.05	14.29	15.84	15.72	15.98	16.86	17.10	18.65