

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: P935574

Luminaire Tested: SQ4-FA-125U-075D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

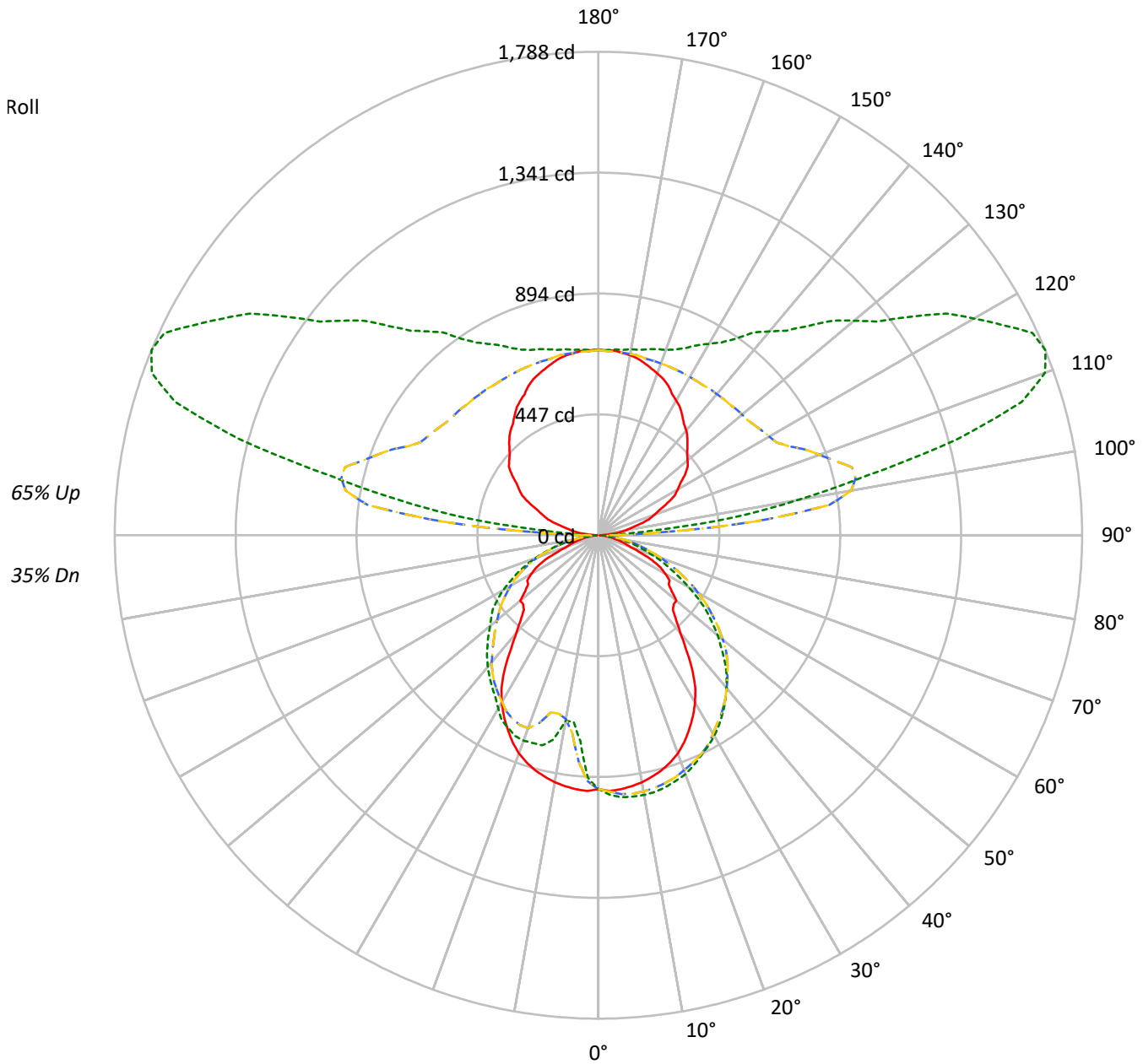
Test Method: LM-79-2019  
Report Number: P935574  
REPORT IS A COMBINATION OF REPORTS P933758 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-075D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6877.5 lumens  
Efficiency: N/A  
Efficacy: 123.7 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: P935574  
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### 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	94	94	94	94	75	75	75	58	58	58	43	43	43	35				35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30				30
2	86	79	73	68	78	72	66	62	58	54	51	45	43	41	33	32	30	25				25
3	78	69	62	56	71	63	57	52	51	47	43	40	37	34	29	28	26	21				21
4	72	61	54	48	65	56	49	44	45	40	36	35	32	29	26	24	22	18				18
5	66	54	46	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16				16
6	60	49	41	35	54	44	37	32	36	31	27	29	25	22	21	19	17	14				14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15	12				12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11				11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10				10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9				9

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

	0°	90°	180°	270°
0°	8710	8710	8710	8710
5°	8766	8793	8766	6914
10°	8698	8662	8698	6193
15°	8593	8475	8593	7076
20°	8404	8252	8404	7091
25°	8027	7927	8027	6941
30°	7541	7658	7541	6611
35°	6713	7318	6713	6248
40°	5585	6916	5585	5974
45°	4980	6448	4980	5660
50°	5279	5888	5279	5343
55°	4953	5285	4953	5161
60°	5086	4490	5086	4727
65°	4589	3710	4589	4148
70°	3156	2956	3156	3476
75°	2738	2185	2738	2617
80°	2162	1445	2162	1573
85°	1176	765	1176	651

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7648 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.7	1.2
10°-20°	240.6	3.5
20°-30°	371.9	5.4
30°-40°	444.0	6.5
40°-50°	446.6	6.5
50°-60°	388.6	5.7
60°-70°	275.5	4.0
70°-80°	145.7	2.1
80°-90°	38.9	0.6
90°-100°	333.9	4.9
100°-110°	877.9	12.8
110°-120°	910.3	13.2
120°-130°	730.2	10.6
130°-140°	572.9	8.3
140°-150°	439.7	6.4
150°-160°	316.7	4.6
160°-170°	193.8	2.8
170°-180°	65.5	1.0
0°-30°	697.2	10.1
0°-40°	1141.2	16.6
0°-60°	1976.4	28.7
0°-90°	2436.6	35.4
90°-120°	2122.2	30.9
90°-150°	3865.0	56.2
90°-180°	4441.0	64.6
0°-180°	6877.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	939	939	939	939	939	
5°	943	972	943	765	943	89
15°	900	964	900	805	900	253
25°	793	899	793	787	793	364
35°	603	802	603	685	603	373
45°	389	661	389	580	389	312
55°	317	488	317	476	317	291
65°	220	294	220	329	220	210
75°	84	139	84	167	84	88
85°	14	36	14	30	14	19
90°	5	18	5	18	5	4
95°	44	202	44	202	44	49
105°	158	1375	158	1375	158	168
115°	281	1770	281	1770	281	277
125°	391	1410	391	1410	391	347
135°	466	1094	466	1094	466	360
145°	540	887	540	887	540	338
155°	611	764	611	764	611	281
165°	659	712	659	712	659	186
175°	685	690	685	690	685	65
180°	685	685	685	685	685	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	946.7	946.7	952.1	953.9	953.9	951.2	948.6	951.2	959.2	961.9	961.0
5°	943.1	950.3	960.1	961.9	963.7	962.8	961.0	962.8	971.6	973.4	974.3
7.5°	936.0	949.4	961.9	964.5	967.2	964.5	963.7	965.4	974.3	976.1	976.1
10°	927.2	945.8	960.1	961.9	964.5	961.9	961.9	965.4	974.3	976.1	977.0
12.5°	914.7	940.5	953.9	955.7	959.2	958.3	957.4	961.0	969.9	971.6	971.6
15°	900.5	930.7	943.1	944.9	951.2	949.4	949.4	953.0	962.8	965.4	964.5
17.5°	881.0	918.3	932.5	935.2	939.6	938.7	939.6	943.1	952.1	953.9	954.8
20°	858.8	901.4	918.3	920.9	925.4	925.4	925.4	929.8	938.7	942.3	942.3
22.5°	828.6	883.6	901.4	903.2	908.5	908.5	910.3	916.5	924.5	925.4	925.4
25°	793.1	864.1	879.2	884.5	889.9	892.5	895.2	898.7	901.4	900.5	901.4
27.5°	755.8	839.2	858.8	862.3	869.4	872.1	875.7	876.5	877.4	880.1	878.3
30°	714.0	804.6	833.9	837.5	849.0	850.8	847.2	849.0	853.5	855.2	857.0
32.5°	667.0	753.1	808.2	816.2	826.8	821.5	820.6	823.3	830.4	830.4	832.1
35°	603.0	713.2	784.2	791.3	799.3	793.1	796.6	797.5	802.0	804.6	803.7
37.5°	532.9	678.5	759.3	764.7	770.9	762.9	768.2	770.9	774.4	772.6	772.6
40°	470.7	624.4	730.0	733.6	738.9	732.7	738.0	739.8	741.6	739.8	738.9
42.5°	424.6	564.9	698.9	703.4	699.8	704.3	706.0	709.6	706.9	703.4	703.4
45°	389.0	548.9	665.2	670.5	665.2	672.3	675.0	675.0	667.0	665.2	664.3
47.5°	377.5	516.9	631.5	631.5	628.8	637.7	642.1	635.9	627.9	625.2	625.2
50°	376.6	481.4	585.3	581.7	594.2	604.8	600.4	594.2	587.9	578.2	578.2
52.5°	342.0	437.9	525.8	539.1	558.6	564.9	557.8	551.5	540.9	536.4	532.9
55°	317.1	392.6	471.6	498.3	518.7	526.7	513.4	507.1	491.2	488.5	486.7
57.5°	311.7	326.9	421.9	455.6	480.5	479.6	471.6	460.1	446.8	444.1	443.2
60°	285.9	236.2	368.6	408.6	434.3	431.7	424.6	413.9	401.5	399.7	397.9
62.5°	259.3	171.4	308.1	353.5	389.9	389.0	382.8	366.8	358.0	353.5	350.0
65°	220.2	143.9	219.3	293.9	346.4	348.2	334.9	323.3	313.5	308.1	307.2
67.5°	167.8	117.2	148.3	245.1	304.6	302.8	285.9	280.6	268.2	265.5	260.2
70°	124.3	78.1	103.0	198.9	263.7	259.3	246.0	239.8	228.2	222.0	218.4
72.5°	103.0	63.0	75.5	154.5	222.0	216.7	205.1	198.0	188.3	182.9	179.4
75°	83.5	66.6	57.7	114.6	180.3	176.7	166.1	159.0	151.0	143.9	144.7
77.5°	61.3	62.2	46.2	84.4	143.0	137.6	131.4	122.5	119.0	111.9	111.9
80°	46.2	48.8	34.6	57.7	103.0	103.0	97.7	91.5	85.2	81.7	81.7
82.5°	31.1	31.1	25.8	36.4	70.2	67.5	63.9	62.2	58.6	56.8	56.8
85°	14.2	17.8	16.0	22.2	38.2	40.0	40.0	38.2	37.3	35.5	36.4
87.5°	4.4	8.0	9.8	12.4	19.5	20.4	21.3	21.3	21.3	22.2	22.2
90°	4.6	8.3	12.0	12.9	20.2	30.0	34.9	31.0	23.3	17.5	17.5
92.5°	18.4	49.6	80.9	88.7	124.8	172.8	196.8	172.4	123.9	87.4	83.9
95°	44.1	101.3	158.6	172.9	307.0	485.7	575.2	513.3	389.5	296.6	286.0
97.5°	76.3	126.7	177.2	189.9	413.5	711.6	860.6	821.5	743.3	684.6	664.6
100°	101.1	147.0	192.7	204.2	452.3	783.0	948.5	951.3	957.1	961.3	937.5
102.5°	122.3	165.0	207.7	218.4	470.0	805.6	973.3	1023.2	1123.0	1197.7	1177.3
105°	158.2	194.4	230.5	239.6	483.2	808.2	970.6	1082.4	1305.9	1473.5	1462.5
107.5°	194.9	228.7	262.4	270.8	485.7	772.2	915.4	1071.4	1383.1	1617.0	1619.6
110°	219.8	250.2	280.6	288.2	482.0	740.3	869.4	1043.8	1392.4	1653.8	1665.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	244.1	273.1	302.1	309.4	482.1	712.4	827.6	1006.0	1362.8	1630.4	1648.0
115°	280.9	307.7	334.5	341.2	486.6	680.5	777.4	949.3	1293.0	1550.8	1575.1
117.5°	317.3	341.6	365.9	372.0	495.7	660.6	743.0	898.0	1208.2	1440.9	1467.9
120°	338.4	361.3	384.2	389.9	503.1	653.8	729.2	871.0	1154.3	1366.9	1393.2
122.5°	359.1	382.2	405.3	411.1	513.6	650.3	718.7	846.3	1101.5	1292.8	1318.8
125°	390.8	411.9	432.9	438.1	527.8	647.4	707.1	815.5	1032.3	1194.9	1218.8
127.5°	416.6	437.8	459.0	464.3	542.0	645.7	697.4	790.5	976.7	1116.3	1136.5
130°	430.3	453.2	476.1	481.8	552.5	646.7	693.8	776.6	942.3	1066.7	1085.2
132.5°	444.6	467.5	490.4	496.1	560.9	647.4	690.6	764.7	913.1	1024.4	1041.0
135°	465.8	486.6	507.4	512.6	570.1	646.7	685.1	747.3	871.5	964.6	979.0
137.5°	487.3	507.9	528.6	533.8	583.9	650.7	684.1	736.6	841.6	920.4	932.1
140°	505.3	524.3	543.3	548.1	592.4	651.4	680.9	726.3	817.0	885.1	896.1
142.5°	519.0	536.6	554.2	558.6	599.4	653.7	680.9	720.8	800.4	860.2	869.6
145°	540.3	555.5	570.9	574.7	608.5	653.7	676.3	708.9	774.1	823.0	830.2
147.5°	561.4	576.3	591.2	595.0	622.0	658.2	676.3	702.0	753.3	791.7	797.7
150°	575.2	588.7	602.2	605.5	629.1	660.6	676.3	698.0	741.3	773.8	778.6
152.5°	589.5	599.7	609.9	612.5	633.8	662.1	676.3	694.8	731.8	759.5	763.1
155°	610.6	618.1	625.7	627.5	643.8	665.5	676.3	691.0	720.4	742.5	744.9
157.5°	626.2	633.6	640.9	642.7	653.9	668.8	676.3	687.8	710.7	727.8	729.5
160°	636.8	642.5	648.2	649.7	658.5	670.4	676.3	686.1	705.7	720.4	721.4
162.5°	647.4	651.6	656.0	657.0	663.4	672.0	676.3	684.6	701.2	713.6	714.5
165°	658.8	662.7	666.6	667.6	670.5	674.3	676.3	682.3	694.1	702.9	703.9
167.5°	669.5	671.2	673.1	673.5	676.0	679.3	680.9	684.8	692.6	698.4	698.9
170°	676.3	678.2	680.0	680.5	680.7	680.8	680.9	684.8	692.6	698.4	698.4
172.5°	680.0	680.4	680.8	680.9	680.9	680.9	680.9	683.9	690.1	694.7	694.3
175°	685.1	685.1	685.1	685.1	683.7	681.8	680.9	682.9	686.7	689.6	689.6
177.5°	685.1	685.1	685.1	685.1	684.0	682.5	681.8	683.3	686.4	688.7	688.3
180°	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	962.8	960.1	962.8	961.0	961.9	959.2	951.2	948.6	951.2	953.9	953.9
5°	974.3	972.5	974.3	974.3	973.4	971.6	962.8	961.0	962.8	963.7	961.9
7.5°	977.9	975.2	977.9	976.1	976.1	974.3	965.4	963.7	964.5	967.2	964.5
10°	977.9	975.2	977.9	977.0	976.1	974.3	965.4	961.9	961.9	964.5	961.9
12.5°	973.4	971.6	973.4	971.6	971.6	969.9	961.0	957.4	958.3	959.2	955.7
15°	966.3	963.7	966.3	964.5	965.4	962.8	953.0	949.4	949.4	951.2	944.9
17.5°	955.7	952.1	955.7	954.8	953.9	952.1	943.1	939.6	938.7	939.6	935.2
20°	943.1	940.5	943.1	942.3	942.3	938.7	929.8	925.4	925.4	925.4	920.9
22.5°	923.6	920.9	923.6	925.4	925.4	924.5	916.5	910.3	908.5	908.5	903.2
25°	901.4	898.7	901.4	901.4	900.5	901.4	898.7	895.2	892.5	889.9	884.5
27.5°	880.1	878.3	880.1	878.3	880.1	877.4	876.5	875.7	872.1	869.4	862.3
30°	858.8	857.0	858.8	857.0	855.2	853.5	849.0	847.2	850.8	849.0	837.5
32.5°	832.1	830.4	832.1	832.1	830.4	830.4	823.3	820.6	821.5	826.8	816.2
35°	804.6	802.0	804.6	803.7	804.6	802.0	797.5	796.6	793.1	799.3	791.3
37.5°	772.6	770.0	772.6	772.6	772.6	774.4	770.9	768.2	762.9	770.9	764.7
40°	739.8	736.2	739.8	738.9	739.8	741.6	739.8	738.0	732.7	738.9	733.6
42.5°	702.5	701.6	702.5	703.4	703.4	706.9	709.6	706.0	704.3	699.8	703.4
45°	662.5	660.8	662.5	664.3	665.2	667.0	675.0	675.0	672.3	665.2	670.5
47.5°	619.9	615.5	619.9	625.2	625.2	627.9	635.9	642.1	637.7	628.8	631.5
50°	574.6	575.5	574.6	578.2	578.2	587.9	594.2	600.4	604.8	594.2	581.7
52.5°	530.2	529.3	530.2	532.9	536.4	540.9	551.5	557.8	564.9	558.6	539.1
55°	485.8	487.6	485.8	486.7	488.5	491.2	507.1	513.4	526.7	518.7	498.3
57.5°	441.4	438.8	441.4	443.2	444.1	446.8	460.1	471.6	479.6	480.5	455.6
60°	389.9	386.4	389.9	397.9	399.7	401.5	413.9	424.6	431.7	434.3	408.6
62.5°	344.6	338.4	344.6	350.0	353.5	358.0	366.8	382.8	389.0	389.9	353.5
65°	296.6	293.9	296.6	307.2	308.1	313.5	323.3	334.9	348.2	346.4	293.9
67.5°	253.1	253.1	253.1	260.2	265.5	268.2	280.6	285.9	302.8	304.6	245.1
70°	213.1	212.2	213.1	218.4	222.0	228.2	239.8	246.0	259.3	263.7	198.9
72.5°	174.9	174.0	174.9	179.4	182.9	188.3	198.0	205.1	216.7	222.0	154.5
75°	141.2	139.4	141.2	144.7	143.9	151.0	159.0	166.1	176.7	180.3	114.6
77.5°	108.3	108.3	108.3	111.9	111.9	119.0	122.5	131.4	137.6	143.0	84.4
80°	80.8	79.9	80.8	81.7	81.7	85.2	91.5	97.7	103.0	103.0	57.7
82.5°	56.8	55.1	56.8	56.8	56.8	58.6	62.2	63.9	67.5	70.2	36.4
85°	35.5	35.5	35.5	36.4	35.5	37.3	38.2	40.0	40.0	38.2	22.2
87.5°	23.1	22.2	23.1	22.2	22.2	21.3	21.3	21.3	20.4	19.5	12.4
90°	17.5	17.5	17.5	17.5	17.5	23.3	31.0	34.9	30.0	20.2	12.9
92.5°	70.0	56.1	70.0	83.9	87.4	123.9	172.4	196.8	172.8	124.8	88.7
95°	243.9	201.8	243.9	286.0	296.6	389.5	513.3	575.2	485.7	307.0	172.9
97.5°	584.5	504.4	584.5	664.6	684.6	743.3	821.5	860.6	711.6	413.5	189.9
100°	842.1	746.6	842.1	937.5	961.3	957.1	951.3	948.5	783.0	452.3	204.2
102.5°	1095.5	1013.8	1095.5	1177.3	1197.7	1123.0	1023.2	973.3	805.6	470.0	218.4
105°	1418.7	1374.7	1418.7	1462.5	1473.5	1305.9	1082.4	970.6	808.2	483.2	239.6
107.5°	1630.3	1640.9	1630.3	1619.6	1617.0	1383.1	1071.4	915.4	772.2	485.7	270.8
110°	1711.0	1756.7	1711.0	1665.3	1653.8	1392.4	1043.8	869.4	740.3	482.0	288.2





TEST NUMBER: P935574

CATALOG NUMBER: SQ4-FA-125U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1718.2	1788.5	1718.2	1648.0	1630.4	1362.8	1006.0	827.6	712.4	482.1	309.4
115°	1672.6	1770.1	1672.6	1575.1	1550.8	1293.0	949.3	777.4	680.5	486.6	341.2
117.5°	1576.0	1684.1	1576.0	1467.9	1440.9	1208.2	898.0	743.0	660.6	495.7	372.0
120°	1498.1	1603.2	1498.1	1393.2	1366.9	1154.3	871.0	729.2	653.8	503.1	389.9
122.5°	1422.3	1525.9	1422.3	1318.8	1292.8	1101.5	846.3	718.7	650.3	513.6	411.1
125°	1314.2	1409.6	1314.2	1218.8	1194.9	1032.3	815.5	707.1	647.4	527.8	438.1
127.5°	1216.9	1297.5	1216.9	1136.5	1116.3	976.7	790.5	697.4	645.7	542.0	464.3
130°	1159.6	1234.1	1159.6	1085.2	1066.7	942.3	776.6	693.8	646.7	552.5	481.8
132.5°	1107.6	1174.2	1107.6	1041.0	1024.4	913.1	764.7	690.6	647.4	560.9	496.1
135°	1036.4	1093.7	1036.4	979.0	964.6	871.5	747.3	685.1	646.7	570.1	512.6
137.5°	979.2	1026.2	979.2	932.1	920.4	841.6	736.6	684.1	650.7	583.9	533.8
140°	939.9	983.9	939.9	896.1	885.1	817.0	726.3	680.9	651.4	592.4	548.1
142.5°	907.4	945.3	907.4	869.6	860.2	800.4	720.8	680.9	653.7	599.4	558.6
145°	858.8	887.4	858.8	830.2	823.0	774.1	708.9	676.3	653.7	608.5	574.7
147.5°	821.3	845.0	821.3	797.7	791.7	753.3	702.0	676.3	658.2	622.0	595.0
150°	797.9	817.0	797.9	778.6	773.8	741.3	698.0	676.3	660.6	629.1	605.5
152.5°	777.6	792.2	777.6	763.1	759.5	731.8	694.8	676.3	662.1	633.8	612.5
155°	754.5	764.1	754.5	744.9	742.5	720.4	691.0	676.3	665.5	643.8	627.5
157.5°	736.2	743.0	736.2	729.5	727.8	710.7	687.8	676.3	668.8	653.9	642.7
160°	725.3	729.2	725.3	721.4	720.4	705.7	686.1	676.3	670.4	658.5	649.7
162.5°	718.2	721.9	718.2	714.5	713.6	701.2	684.6	676.3	672.0	663.4	657.0
165°	707.8	711.7	707.8	703.9	702.9	694.1	682.3	676.3	674.3	670.5	667.6
167.5°	700.5	702.1	700.5	698.9	698.4	692.6	684.8	680.9	679.3	676.0	673.5
170°	698.4	698.4	698.4	698.4	698.4	692.6	684.8	680.9	680.8	680.7	680.5
172.5°	692.9	691.5	692.9	694.3	694.7	690.1	683.9	680.9	680.9	680.9	680.9
175°	689.6	689.6	689.6	689.6	689.6	686.7	682.9	680.9	681.8	683.7	685.1
177.5°	686.7	685.1	686.7	688.3	688.7	686.4	683.3	681.8	682.5	684.0	685.1
180°	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1



TEST NUMBER: P935574

CATALOG NUMBER: SQ4-FA-125U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	952.1	946.7	946.7	937.8	934.3	931.6	927.2	913.8	910.3	906.7	912.1
5°	960.1	950.3	943.1	927.2	913.8	908.5	891.6	859.7	838.4	822.4	813.5
7.5°	961.9	949.4	936.0	911.2	879.2	865.0	813.5	754.9	738.9	724.7	715.8
10°	960.1	945.8	927.2	889.9	814.4	789.5	738.0	699.8	690.1	687.4	690.1
12.5°	953.9	940.5	914.7	852.6	746.9	730.0	699.8	677.6	675.9	680.3	704.3
15°	943.1	930.7	900.5	802.8	709.6	697.2	675.9	667.9	677.6	708.7	780.6
17.5°	932.5	918.3	881.0	754.0	681.2	672.3	657.2	673.2	728.2	770.0	794.0
20°	918.3	901.4	858.8	718.5	660.8	652.8	645.7	717.6	759.3	774.4	787.7
22.5°	901.4	883.6	828.6	693.6	639.4	633.2	637.7	742.5	759.3	770.0	781.5
25°	879.2	864.1	793.1	674.1	622.6	615.5	632.3	739.8	749.6	752.2	775.3
27.5°	858.8	839.2	755.8	656.3	602.2	599.5	636.8	728.2	735.4	738.0	762.9
30°	833.9	804.6	714.0	637.7	580.8	580.0	637.7	714.0	712.3	719.4	744.2
32.5°	808.2	753.1	667.0	614.6	560.4	559.5	631.5	692.7	691.0	700.7	719.4
35°	784.2	713.2	603.0	587.9	534.7	535.6	616.4	667.9	668.8	677.6	689.2
37.5°	759.3	678.5	532.9	558.6	509.8	509.8	595.9	644.8	643.0	645.7	661.6
40°	730.0	624.4	470.7	520.5	486.7	484.0	571.1	619.9	613.7	612.8	635.0
42.5°	698.9	564.9	424.6	469.8	460.1	456.5	540.9	589.7	578.2	580.8	609.3
45°	665.2	548.9	389.0	397.0	432.5	429.9	508.0	555.1	547.1	554.2	583.5
47.5°	631.5	516.9	377.5	329.5	403.2	402.4	471.6	521.3	516.9	524.0	555.1
50°	585.3	481.4	376.6	282.4	370.4	373.9	428.1	488.5	488.5	494.7	527.6
52.5°	525.8	437.9	342.0	255.7	332.2	342.9	389.9	460.1	461.8	468.1	497.4
55°	471.6	392.6	317.1	235.3	286.8	309.9	352.6	430.8	434.3	440.5	467.2
57.5°	421.9	326.9	311.7	211.3	245.1	267.3	319.8	402.4	404.1	409.5	435.2
60°	368.6	236.2	285.9	185.6	208.7	225.6	289.5	368.6	374.8	378.4	400.6
62.5°	308.1	171.4	259.3	167.8	190.9	194.5	264.6	336.6	344.6	347.3	360.6
65°	219.3	143.9	220.2	152.7	172.3	173.2	238.0	303.7	310.8	315.2	325.1
67.5°	148.3	117.2	167.8	138.5	158.1	159.0	212.2	265.5	275.3	278.8	285.0
70°	103.0	78.1	124.3	123.4	142.1	143.9	184.7	230.9	239.8	242.4	246.0
72.5°	75.5	63.0	103.0	111.0	125.2	127.0	156.3	191.8	200.7	203.4	205.1
75°	57.7	66.6	83.5	96.8	106.6	107.4	127.9	156.3	162.5	164.3	165.2
77.5°	46.2	62.2	61.3	78.1	87.0	85.2	100.3	120.8	126.1	126.1	126.1
80°	34.6	48.8	46.2	55.9	63.9	62.2	71.9	86.1	87.9	89.7	88.8
82.5°	25.8	31.1	31.1	35.5	42.6	40.8	48.0	55.9	55.9	55.9	57.7
85°	16.0	17.8	14.2	18.6	24.0	23.1	26.6	30.2	31.1	31.1	29.3
87.5°	9.8	8.0	4.4	7.1	10.7	10.7	12.4	13.3	12.4	12.4	12.4
90°	12.0	8.3	4.6	8.3	12.0	12.9	20.2	30.0	34.9	31.0	23.3
92.5°	80.9	49.6	18.4	49.6	80.9	88.7	124.8	172.8	196.8	172.4	123.9
95°	158.6	101.3	44.1	101.3	158.6	172.9	307.0	485.7	575.2	513.3	389.5
97.5°	177.2	126.7	76.3	126.7	177.2	189.9	413.5	711.6	860.6	821.5	743.3
100°	192.7	147.0	101.1	147.0	192.7	204.2	452.3	783.0	948.5	951.3	957.1
102.5°	207.7	165.0	122.3	165.0	207.7	218.4	470.0	805.6	973.3	1023.2	1123.0
105°	230.5	194.4	158.2	194.4	230.5	239.6	483.2	808.2	970.6	1082.4	1305.9
107.5°	262.4	228.7	194.9	228.7	262.4	270.8	485.7	772.2	915.4	1071.4	1383.1
110°	280.6	250.2	219.8	250.2	280.6	288.2	482.0	740.3	869.4	1043.8	1392.4



TEST NUMBER: P935574

CATALOG NUMBER: SQ4-FA-125U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	302.1	273.1	244.1	273.1	302.1	309.4	482.1	712.4	827.6	1006.0	1362.8
115°	334.5	307.7	280.9	307.7	334.5	341.2	486.6	680.5	777.4	949.3	1293.0
117.5°	365.9	341.6	317.3	341.6	365.9	372.0	495.7	660.6	743.0	898.0	1208.2
120°	384.2	361.3	338.4	361.3	384.2	389.9	503.1	653.8	729.2	871.0	1154.3
122.5°	405.3	382.2	359.1	382.2	405.3	411.1	513.6	650.3	718.7	846.3	1101.5
125°	432.9	411.9	390.8	411.9	432.9	438.1	527.8	647.4	707.1	815.5	1032.3
127.5°	459.0	437.8	416.6	437.8	459.0	464.3	542.0	645.7	697.4	790.5	976.7
130°	476.1	453.2	430.3	453.2	476.1	481.8	552.5	646.7	693.8	776.6	942.3
132.5°	490.4	467.5	444.6	467.5	490.4	496.1	560.9	647.4	690.6	764.7	913.1
135°	507.4	486.6	465.8	486.6	507.4	512.6	570.1	646.7	685.1	747.3	871.5
137.5°	528.6	507.9	487.3	507.9	528.6	533.8	583.9	650.7	684.1	736.6	841.6
140°	543.3	524.3	505.3	524.3	543.3	548.1	592.4	651.4	680.9	726.3	817.0
142.5°	554.2	536.6	519.0	536.6	554.2	558.6	599.4	653.7	680.9	720.8	800.4
145°	570.9	555.5	540.3	555.5	570.9	574.7	608.5	653.7	676.3	708.9	774.1
147.5°	591.2	576.3	561.4	576.3	591.2	595.0	622.0	658.2	676.3	702.0	753.3
150°	602.2	588.7	575.2	588.7	602.2	605.5	629.1	660.6	676.3	698.0	741.3
152.5°	609.9	599.7	589.5	599.7	609.9	612.5	633.8	662.1	676.3	694.8	731.8
155°	625.7	618.1	610.6	618.1	625.7	627.5	643.8	665.5	676.3	691.0	720.4
157.5°	640.9	633.6	626.2	633.6	640.9	642.7	653.9	668.8	676.3	687.8	710.7
160°	648.2	642.5	636.8	642.5	648.2	649.7	658.5	670.4	676.3	686.1	705.7
162.5°	656.0	651.6	647.4	651.6	656.0	657.0	663.4	672.0	676.3	684.6	701.2
165°	666.6	662.7	658.8	662.7	666.6	667.6	670.5	674.3	676.3	682.3	694.1
167.5°	673.1	671.2	669.5	671.2	673.1	673.5	676.0	679.3	680.9	684.8	692.6
170°	680.0	678.2	676.3	678.2	680.0	680.5	680.7	680.8	680.9	684.8	692.6
172.5°	680.8	680.4	680.0	680.4	680.8	680.9	680.9	680.9	680.9	683.9	690.1
175°	685.1	685.1	685.1	685.1	685.1	685.1	683.7	681.8	680.9	682.9	686.7
177.5°	685.1	685.1	685.1	685.1	685.1	685.1	684.0	682.5	681.8	683.3	686.4
180°	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1



TEST NUMBER: P935574  
 CATALOG NUMBER: SQ4-FA-125U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	905.8	903.2	906.7	897.0	906.7	903.2	905.8	912.1	906.7	910.3	913.8
5°	794.8	790.4	776.2	764.7	776.2	790.4	794.8	813.5	822.4	838.4	859.7
7.5°	710.5	706.9	703.4	696.3	703.4	706.9	710.5	715.8	724.7	738.9	754.9
10°	691.8	692.7	698.1	697.2	698.1	692.7	691.8	690.1	687.4	690.1	699.8
12.5°	739.8	747.8	777.1	775.3	777.1	747.8	739.8	704.3	680.3	675.9	677.6
15°	794.8	797.5	803.7	804.6	803.7	797.5	794.8	780.6	708.7	677.6	667.9
17.5°	800.2	801.1	805.5	805.5	805.5	801.1	800.2	794.0	770.0	728.2	673.2
20°	795.7	797.5	806.4	808.2	806.4	797.5	795.7	787.7	774.4	759.3	717.6
22.5°	794.0	797.5	804.6	803.7	804.6	797.5	794.0	781.5	770.0	759.3	742.5
25°	785.1	785.1	786.0	786.9	786.0	785.1	785.1	775.3	752.2	749.6	739.8
27.5°	766.4	768.2	773.5	772.6	773.5	768.2	766.4	762.9	738.0	735.4	728.2
30°	749.6	747.8	743.3	739.8	743.3	747.8	749.6	744.2	719.4	712.3	714.0
32.5°	721.1	716.7	712.3	709.6	712.3	716.7	721.1	719.4	700.7	691.0	692.7
35°	687.4	688.3	687.4	684.7	687.4	688.3	687.4	689.2	677.6	668.8	667.9
37.5°	663.4	665.2	664.3	660.8	664.3	665.2	663.4	661.6	645.7	643.0	644.8
40°	638.6	639.4	638.6	635.9	638.6	639.4	638.6	635.0	612.8	613.7	619.9
42.5°	614.6	613.7	611.0	609.3	611.0	613.7	614.6	609.3	580.8	578.2	589.7
45°	587.1	587.9	582.6	580.0	582.6	587.9	587.1	583.5	554.2	547.1	555.1
47.5°	559.5	559.5	555.1	552.4	555.1	559.5	559.5	555.1	524.0	516.9	521.3
50°	530.2	529.3	523.1	522.2	523.1	529.3	530.2	527.6	494.7	488.5	488.5
52.5°	496.5	496.5	497.4	499.1	497.4	496.5	496.5	497.4	468.1	461.8	460.1
55°	467.2	468.1	474.3	476.1	474.3	468.1	467.2	467.2	440.5	434.3	430.8
57.5°	437.0	437.0	441.4	441.4	441.4	437.0	437.0	435.2	409.5	404.1	402.4
60°	402.4	404.1	407.7	406.8	407.7	404.1	402.4	400.6	378.4	374.8	368.6
62.5°	365.9	367.7	368.6	366.8	368.6	367.7	365.9	360.6	347.3	344.6	336.6
65°	327.8	329.5	330.4	328.6	330.4	329.5	327.8	325.1	315.2	310.8	303.7
67.5°	288.6	287.7	286.8	290.4	286.8	287.7	288.6	285.0	278.8	275.3	265.5
70°	248.6	248.6	247.8	249.5	247.8	248.6	248.6	246.0	242.4	239.8	230.9
72.5°	206.0	205.1	208.7	206.0	208.7	205.1	206.0	205.1	203.4	200.7	191.8
75°	164.3	166.1	164.3	166.9	164.3	166.1	164.3	165.2	164.3	162.5	156.3
77.5°	125.2	127.0	125.2	125.2	125.2	127.0	125.2	126.1	126.1	126.1	120.8
80°	88.8	87.9	87.9	87.0	87.9	87.9	88.8	88.8	89.7	87.9	86.1
82.5°	56.8	55.9	55.9	57.7	55.9	55.9	56.8	57.7	55.9	55.9	55.9
85°	31.1	32.0	30.2	30.2	30.2	32.0	31.1	29.3	31.1	31.1	30.2
87.5°	11.5	10.7	10.7	10.7	10.7	10.7	11.5	12.4	12.4	12.4	13.3
90°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	23.3	31.0	34.9	30.0
92.5°	87.4	83.9	70.0	56.1	70.0	83.9	87.4	123.9	172.4	196.8	172.8
95°	296.6	286.0	243.9	201.8	243.9	286.0	296.6	389.5	513.3	575.2	485.7
97.5°	684.6	664.6	584.5	504.4	584.5	664.6	684.6	743.3	821.5	860.6	711.6
100°	961.3	937.5	842.1	746.6	842.1	937.5	961.3	957.1	951.3	948.5	783.0
102.5°	1197.7	1177.3	1095.5	1013.8	1095.5	1177.3	1197.7	1123.0	1023.2	973.3	805.6
105°	1473.5	1462.5	1418.7	1374.7	1418.7	1462.5	1473.5	1305.9	1082.4	970.6	808.2
107.5°	1617.0	1619.6	1630.3	1640.9	1630.3	1619.6	1617.0	1383.1	1071.4	915.4	772.2
110°	1653.8	1665.3	1711.0	1756.7	1711.0	1665.3	1653.8	1392.4	1043.8	869.4	740.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1630.4	1648.0	1718.2	1788.5	1718.2	1648.0	1630.4	1362.8	1006.0	827.6	712.4
115°	1550.8	1575.1	1672.6	1770.1	1672.6	1575.1	1550.8	1293.0	949.3	777.4	680.5
117.5°	1440.9	1467.9	1576.0	1684.1	1576.0	1467.9	1440.9	1208.2	898.0	743.0	660.6
120°	1366.9	1393.2	1498.1	1603.2	1498.1	1393.2	1366.9	1154.3	871.0	729.2	653.8
122.5°	1292.8	1318.8	1422.3	1525.9	1422.3	1318.8	1292.8	1101.5	846.3	718.7	650.3
125°	1194.9	1218.8	1314.2	1409.6	1314.2	1218.8	1194.9	1032.3	815.5	707.1	647.4
127.5°	1116.3	1136.5	1216.9	1297.5	1216.9	1136.5	1116.3	976.7	790.5	697.4	645.7
130°	1066.7	1085.2	1159.6	1234.1	1159.6	1085.2	1066.7	942.3	776.6	693.8	646.7
132.5°	1024.4	1041.0	1107.6	1174.2	1107.6	1041.0	1024.4	913.1	764.7	690.6	647.4
135°	964.6	979.0	1036.4	1093.7	1036.4	979.0	964.6	871.5	747.3	685.1	646.7
137.5°	920.4	932.1	979.2	1026.2	979.2	932.1	920.4	841.6	736.6	684.1	650.7
140°	885.1	896.1	939.9	983.9	939.9	896.1	885.1	817.0	726.3	680.9	651.4
142.5°	860.2	869.6	907.4	945.3	907.4	869.6	860.2	800.4	720.8	680.9	653.7
145°	823.0	830.2	858.8	887.4	858.8	830.2	823.0	774.1	708.9	676.3	653.7
147.5°	791.7	797.7	821.3	845.0	821.3	797.7	791.7	753.3	702.0	676.3	658.2
150°	773.8	778.6	797.9	817.0	797.9	778.6	773.8	741.3	698.0	676.3	660.6
152.5°	759.5	763.1	777.6	792.2	777.6	763.1	759.5	731.8	694.8	676.3	662.1
155°	742.5	744.9	754.5	764.1	754.5	744.9	742.5	720.4	691.0	676.3	665.5
157.5°	727.8	729.5	736.2	743.0	736.2	729.5	727.8	710.7	687.8	676.3	668.8
160°	720.4	721.4	725.3	729.2	725.3	721.4	720.4	705.7	686.1	676.3	670.4
162.5°	713.6	714.5	718.2	721.9	718.2	714.5	713.6	701.2	684.6	676.3	672.0
165°	702.9	703.9	707.8	711.7	707.8	703.9	702.9	694.1	682.3	676.3	674.3
167.5°	698.4	698.9	700.5	702.1	700.5	698.9	698.4	692.6	684.8	680.9	679.3
170°	698.4	698.4	698.4	698.4	698.4	698.4	698.4	692.6	684.8	680.9	680.8
172.5°	694.7	694.3	692.9	691.5	692.9	694.3	694.7	690.1	683.9	680.9	680.9
175°	689.6	689.6	689.6	689.6	689.6	689.6	689.6	686.7	682.9	680.9	681.8
177.5°	688.7	688.3	686.7	685.1	686.7	688.3	688.7	686.4	683.3	681.8	682.5
180°	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1	685.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	938.7	938.7	938.7	938.7	938.7
2.5°	927.2	931.6	934.3	937.8	946.7
5°	891.6	908.5	913.8	927.2	943.1
7.5°	813.5	865.0	879.2	911.2	936.0
10°	738.0	789.5	814.4	889.9	927.2
12.5°	699.8	730.0	746.9	852.6	914.7
15°	675.9	697.2	709.6	802.8	900.5
17.5°	657.2	672.3	681.2	754.0	881.0
20°	645.7	652.8	660.8	718.5	858.8
22.5°	637.7	633.2	639.4	693.6	828.6
25°	632.3	615.5	622.6	674.1	793.1
27.5°	636.8	599.5	602.2	656.3	755.8
30°	637.7	580.0	580.8	637.7	714.0
32.5°	631.5	559.5	560.4	614.6	667.0
35°	616.4	535.6	534.7	587.9	603.0
37.5°	595.9	509.8	509.8	558.6	532.9
40°	571.1	484.0	486.7	520.5	470.7
42.5°	540.9	456.5	460.1	469.8	424.6
45°	508.0	429.9	432.5	397.0	389.0
47.5°	471.6	402.4	403.2	329.5	377.5
50°	428.1	373.9	370.4	282.4	376.6
52.5°	389.9	342.9	332.2	255.7	342.0
55°	352.6	309.9	286.8	235.3	317.1
57.5°	319.8	267.3	245.1	211.3	311.7
60°	289.5	225.6	208.7	185.6	285.9
62.5°	264.6	194.5	190.9	167.8	259.3
65°	238.0	173.2	172.3	152.7	220.2
67.5°	212.2	159.0	158.1	138.5	167.8
70°	184.7	143.9	142.1	123.4	124.3
72.5°	156.3	127.0	125.2	111.0	103.0
75°	127.9	107.4	106.6	96.8	83.5
77.5°	100.3	85.2	87.0	78.1	61.3
80°	71.9	62.2	63.9	55.9	46.2
82.5°	48.0	40.8	42.6	35.5	31.1
85°	26.6	23.1	24.0	18.6	14.2
87.5°	12.4	10.7	10.7	7.1	4.4
90°	20.2	12.9	12.0	8.3	4.6
92.5°	124.8	88.7	80.9	49.6	18.4
95°	307.0	172.9	158.6	101.3	44.1
97.5°	413.5	189.9	177.2	126.7	76.3
100°	452.3	204.2	192.7	147.0	101.1
102.5°	470.0	218.4	207.7	165.0	122.3
105°	483.2	239.6	230.5	194.4	158.2
107.5°	485.7	270.8	262.4	228.7	194.9
110°	482.0	288.2	280.6	250.2	219.8



TEST NUMBER: P935574

CATALOG NUMBER: SQ4-FA-125U-075D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	482.1	309.4	302.1	273.1	244.1
115°	486.6	341.2	334.5	307.7	280.9
117.5°	495.7	372.0	365.9	341.6	317.3
120°	503.1	389.9	384.2	361.3	338.4
122.5°	513.6	411.1	405.3	382.2	359.1
125°	527.8	438.1	432.9	411.9	390.8
127.5°	542.0	464.3	459.0	437.8	416.6
130°	552.5	481.8	476.1	453.2	430.3
132.5°	560.9	496.1	490.4	467.5	444.6
135°	570.1	512.6	507.4	486.6	465.8
137.5°	583.9	533.8	528.6	507.9	487.3
140°	592.4	548.1	543.3	524.3	505.3
142.5°	599.4	558.6	554.2	536.6	519.0
145°	608.5	574.7	570.9	555.5	540.3
147.5°	622.0	595.0	591.2	576.3	561.4
150°	629.1	605.5	602.2	588.7	575.2
152.5°	633.8	612.5	609.9	599.7	589.5
155°	643.8	627.5	625.7	618.1	610.6
157.5°	653.9	642.7	640.9	633.6	626.2
160°	658.5	649.7	648.2	642.5	636.8
162.5°	663.4	657.0	656.0	651.6	647.4
165°	670.5	667.6	666.6	662.7	658.8
167.5°	676.0	673.5	673.1	671.2	669.5
170°	680.7	680.5	680.0	678.2	676.3
172.5°	680.9	680.9	680.8	680.4	680.0
175°	683.7	685.1	685.1	685.1	685.1
177.5°	684.0	685.1	685.1	685.1	685.1
180°	685.1	685.1	685.1	685.1	685.1



TEST NUMBER: P935574  
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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	10.79	11.54	11.87	12.61	14.08	13.59	14.33	14.66	15.41	16.87
	3H	11.26	11.93	12.34	13.01	14.49	14.92	15.58	16.00	16.67	18.15
	4H	11.45	12.08	12.54	13.16	14.65	15.35	15.98	16.44	17.06	18.55
	6H	11.56	12.14	12.66	13.23	14.73	15.62	16.20	16.72	17.29	18.79
	8H	11.56	12.11	12.66	13.21	14.71	15.69	16.24	16.79	17.34	18.84
	12H	11.52	12.05	12.63	13.15	14.66	15.72	16.24	16.83	17.34	18.86
4H	2H	11.80	12.43	12.90	13.52	15.01	13.99	14.62	15.09	15.70	17.19
	3H	12.82	13.34	13.92	14.46	15.96	15.47	16.00	16.58	17.11	18.61
	4H	13.09	13.57	14.20	14.67	16.20	15.99	16.47	17.10	17.57	19.09
	6H	13.21	13.62	14.33	14.75	16.26	16.34	16.75	17.46	17.88	19.39
	8H	13.21	13.60	14.33	14.71	16.25	16.44	16.82	17.56	17.94	19.47
	12H	13.17	13.52	14.31	14.65	16.19	16.48	16.83	17.62	17.96	19.50
8H	4H	13.53	13.92	14.65	15.03	16.56	16.10	16.49	17.22	17.61	19.14
	6H	13.78	14.10	14.92	15.26	16.79	16.53	16.85	17.67	18.00	19.53
	8H	13.83	14.11	14.97	15.24	16.79	16.67	16.95	17.82	18.09	19.64
	12H	13.80	14.05	14.96	15.19	16.77	16.76	17.00	17.91	18.14	19.72
12H	4H	13.53	13.88	14.66	15.01	16.54	16.06	16.41	17.20	17.54	19.08
	6H	13.84	14.12	14.99	15.26	16.81	16.52	16.80	17.67	17.94	19.49
	8H	13.90	14.15	15.05	15.28	16.87	16.67	16.92	17.82	18.05	19.64