

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: P935570

Luminaire Tested: SQ4-FA-125U-075D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

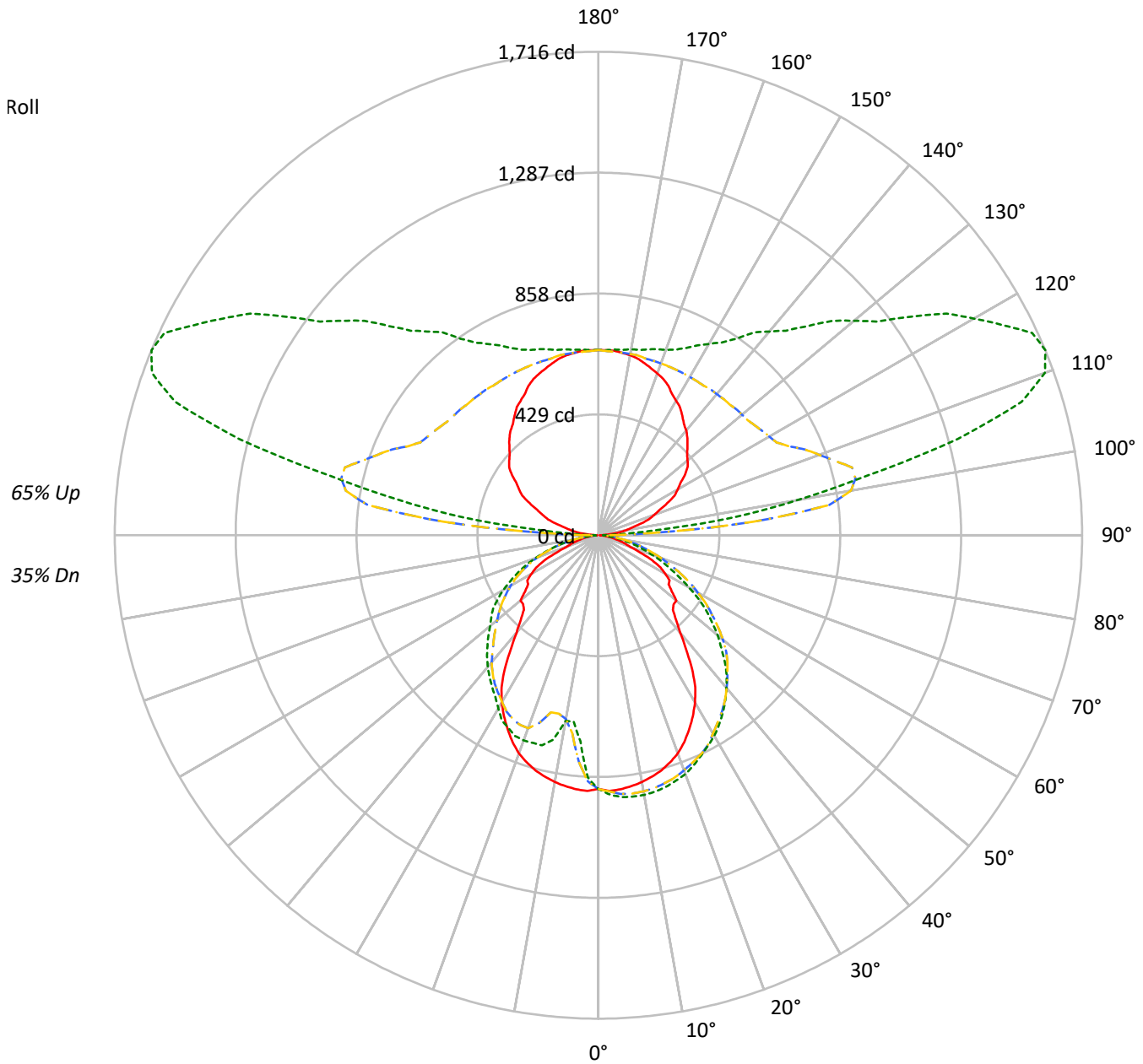
Test Method: LM-79-2019  
Report Number: P935570  
REPORT IS A COMBINATION OF REPORTS P933758 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-075D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6598.7 lumens  
Efficiency: N/A  
Efficacy: 118.7 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 (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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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°	8357	8357	8357	8357
5°	8410	8437	8410	6634
10°	8345	8311	8345	5941
15°	8245	8131	8245	6789
20°	8063	7917	8063	6803
25°	7701	7606	7701	6659
30°	7236	7348	7236	6343
35°	6442	7021	6442	5995
40°	5358	6637	5358	5732
45°	4779	6187	4779	5429
50°	5065	5650	5065	5127
55°	4752	5071	4752	4952
60°	4879	4307	4879	4535
65°	4403	3560	4403	3980
70°	3029	2836	3029	3335
75°	2627	2098	2627	2511
80°	2073	1387	2073	1510
85°	1126	735	1126	625

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7337 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.3	1.2
10°-20°	230.8	3.5
20°-30°	356.8	5.4
30°-40°	426.0	6.5
40°-50°	428.5	6.5
50°-60°	372.8	5.7
60°-70°	264.3	4.0
70°-80°	139.8	2.1
80°-90°	37.3	0.6
90°-100°	320.4	4.9
100°-110°	842.3	12.8
110°-120°	873.4	13.2
120°-130°	700.6	10.6
130°-140°	549.7	8.3
140°-150°	421.9	6.4
150°-160°	303.9	4.6
160°-170°	185.9	2.8
170°-180°	62.8	1.0
0°-30°	669.0	10.1
0°-40°	1095.0	16.6
0°-60°	1896.3	28.7
0°-90°	2337.8	35.4
90°-120°	2036.1	30.9
90°-150°	3708.3	56.2
90°-180°	4261.0	64.6
0°-180°	6598.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	901	901	901	901	901	
5°	905	933	905	734	905	86
15°	864	925	864	772	864	243
25°	761	862	761	755	761	349
35°	579	769	579	657	579	358
45°	373	634	373	556	373	299
55°	304	468	304	457	304	280
65°	211	282	211	315	211	202
75°	80	134	80	160	80	84
85°	14	34	14	29	14	18
90°	4	17	4	17	4	4
95°	42	194	42	194	42	47
105°	152	1319	152	1319	152	161
115°	270	1698	270	1698	270	266
125°	375	1352	375	1352	375	333
135°	447	1049	447	1049	447	346
145°	518	851	518	851	518	325
155°	586	733	586	733	586	269
165°	632	683	632	683	632	178
175°	657	662	657	662	657	62
180°	657	657	657	657	657	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	908.3	908.3	913.5	915.2	915.2	912.7	910.1	912.7	920.3	922.9	922.0
5°	904.9	911.8	921.2	922.9	924.6	923.7	922.0	923.7	932.3	934.0	934.8
7.5°	898.1	911.0	922.9	925.4	928.0	925.4	924.6	926.3	934.8	936.5	936.5
10°	889.6	907.5	921.2	922.9	925.4	922.9	922.9	926.3	934.8	936.5	937.4
12.5°	877.6	902.4	915.2	916.9	920.3	919.5	918.6	922.0	930.6	932.3	932.3
15°	864.0	893.0	904.9	906.6	912.7	911.0	911.0	914.4	923.7	926.3	925.4
17.5°	845.3	881.1	894.7	897.2	901.5	900.6	901.5	904.9	913.5	915.2	916.1
20°	824.0	864.9	881.1	883.6	887.9	887.9	887.9	892.1	900.6	904.1	904.1
22.5°	795.0	847.8	864.9	866.6	871.7	871.7	873.4	879.3	887.0	887.9	887.9
25°	760.9	829.1	843.6	848.7	853.8	856.3	858.9	862.3	864.9	864.0	864.9
27.5°	725.1	805.2	824.0	827.4	834.2	836.7	840.2	841.0	841.9	844.4	842.7
30°	685.1	772.0	800.1	803.5	814.6	816.3	812.9	814.6	818.9	820.6	822.3
32.5°	639.9	722.6	775.4	783.1	793.3	788.2	787.3	789.9	796.7	796.7	798.4
35°	578.6	684.2	752.4	759.2	766.9	760.9	764.3	765.2	769.4	772.0	771.1
37.5°	511.3	651.0	728.5	733.7	739.6	732.0	737.1	739.6	743.0	741.3	741.3
40°	451.6	599.0	700.4	703.8	708.9	703.0	708.1	709.8	711.5	709.8	708.9
42.5°	407.3	542.0	670.6	674.9	671.5	675.7	677.4	680.8	678.3	674.9	674.9
45°	373.3	526.6	638.2	643.3	638.2	645.0	647.6	647.6	639.9	638.2	637.4
47.5°	362.2	495.9	605.9	605.9	603.3	611.8	616.1	610.1	602.4	599.9	599.9
50°	361.3	461.9	561.6	558.1	570.1	580.3	576.0	570.1	564.1	554.7	554.7
52.5°	328.1	420.1	504.5	517.2	536.0	542.0	535.1	529.2	519.0	514.7	511.3
55°	304.2	376.7	452.5	478.1	497.7	505.3	492.5	486.6	471.2	468.7	467.0
57.5°	299.1	313.6	404.8	437.2	461.0	460.2	452.5	441.4	428.6	426.1	425.2
60°	274.3	226.6	353.7	392.0	416.7	414.2	407.3	397.1	385.2	383.5	381.8
62.5°	248.8	164.4	295.6	339.2	374.1	373.3	367.3	352.0	343.4	339.2	335.8
65°	211.3	138.0	210.4	282.0	332.4	334.1	321.3	310.2	300.8	295.6	294.8
67.5°	161.0	112.5	142.3	235.2	292.2	290.5	274.3	269.2	257.3	254.7	249.6
70°	119.3	75.0	98.8	190.8	253.0	248.8	236.0	230.0	219.0	213.0	209.6
72.5°	98.8	60.5	72.4	148.2	213.0	207.9	196.8	190.0	180.6	175.5	172.1
75°	80.1	63.9	55.4	109.9	173.0	169.5	159.3	152.5	144.8	138.0	138.9
77.5°	58.8	59.6	44.3	80.9	137.2	132.1	126.1	117.6	114.2	107.4	107.4
80°	44.3	46.9	33.2	55.4	98.8	98.8	93.7	87.8	81.8	78.4	78.4
82.5°	29.8	29.8	24.7	34.9	67.3	64.8	61.3	59.6	56.2	54.5	54.5
85°	13.6	17.0	15.3	21.3	36.6	38.3	38.3	36.6	35.8	34.1	34.9
87.5°	4.3	7.7	9.4	11.9	18.7	19.6	20.4	20.4	20.4	21.3	21.3
90°	4.4	7.9	11.5	12.4	19.4	28.8	33.5	29.7	22.3	16.8	16.8
92.5°	17.6	47.6	77.6	85.1	119.7	165.8	188.8	165.5	118.9	83.8	80.5
95°	42.3	97.2	152.2	165.9	294.5	466.0	551.8	492.5	373.7	284.6	274.4
97.5°	73.2	121.6	170.1	182.2	396.7	682.7	825.8	788.2	713.1	656.8	637.6
100°	97.0	141.0	184.9	195.9	433.9	751.3	910.0	912.7	918.3	922.4	899.5
102.5°	117.3	158.3	199.3	209.5	451.0	772.9	933.9	981.8	1077.4	1149.2	1129.6
105°	151.7	186.5	221.2	229.9	463.7	775.4	931.2	1038.5	1253.0	1413.8	1403.2
107.5°	187.0	219.4	251.8	259.9	466.0	740.9	878.3	1027.9	1327.1	1551.4	1554.0
110°	210.9	240.1	269.2	276.6	462.5	710.3	834.2	1001.4	1335.9	1586.8	1597.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	234.2	262.1	289.9	296.8	462.6	683.6	794.1	965.2	1307.6	1564.3	1581.1
115°	269.5	295.2	320.9	327.3	466.9	652.9	745.9	910.8	1240.6	1487.9	1511.3
117.5°	304.4	327.8	351.1	356.9	475.6	633.8	712.9	861.6	1159.2	1382.5	1408.4
120°	324.7	346.7	368.7	374.1	482.7	627.3	699.7	835.6	1107.5	1311.5	1336.7
122.5°	344.5	366.7	388.9	394.4	492.8	623.9	689.5	812.0	1056.8	1240.4	1265.3
125°	375.0	395.2	415.4	420.4	506.4	621.1	678.4	782.5	990.4	1146.5	1169.4
127.5°	399.7	420.0	440.4	445.5	520.1	619.5	669.2	758.5	937.1	1071.0	1090.4
130°	412.9	434.9	456.8	462.3	530.1	620.5	665.7	745.2	904.1	1023.4	1041.2
132.5°	426.6	448.6	470.6	476.0	538.2	621.1	662.6	733.7	876.1	982.9	998.8
135°	446.9	466.9	486.8	491.9	547.0	620.5	657.3	717.0	836.2	925.5	939.3
137.5°	467.6	487.3	507.2	512.1	560.2	624.3	656.4	706.7	807.5	883.1	894.3
140°	484.8	503.0	521.3	525.9	568.4	625.0	653.3	696.9	783.9	849.2	859.8
142.5°	498.0	514.9	531.7	536.0	575.1	627.2	653.3	691.6	768.0	825.3	834.4
145°	518.4	533.0	547.8	551.4	583.9	627.2	648.9	680.2	742.7	789.6	796.5
147.5°	538.6	552.9	567.3	570.8	596.8	631.5	648.9	673.5	722.8	759.6	765.4
150°	551.8	564.8	577.7	581.0	603.6	633.8	648.9	669.7	711.2	742.4	747.0
152.5°	565.6	575.4	585.2	587.6	608.1	635.3	648.9	666.6	702.1	728.7	732.2
155°	585.8	593.1	600.3	602.1	617.7	638.5	648.9	663.0	691.2	712.4	714.7
157.5°	600.8	607.9	614.9	616.7	627.4	641.7	648.9	659.9	681.9	698.3	699.9
160°	611.0	616.4	622.0	623.3	631.8	643.2	648.9	658.3	677.1	691.2	692.2
162.5°	621.1	625.2	629.4	630.4	636.5	644.8	648.9	656.8	672.7	684.7	685.5
165°	632.1	635.8	639.6	640.5	643.3	647.0	648.9	654.6	665.9	674.4	675.4
167.5°	642.3	644.0	645.8	646.2	648.6	651.8	653.3	657.1	664.5	670.1	670.5
170°	648.9	650.7	652.5	652.9	653.1	653.2	653.3	657.1	664.5	670.1	670.1
172.5°	652.5	652.8	653.2	653.3	653.3	653.3	653.3	656.2	662.1	666.5	666.2
175°	657.3	657.3	657.3	657.3	656.0	654.2	653.3	655.2	658.9	661.7	661.7
177.5°	657.3	657.3	657.3	657.3	656.3	654.8	654.2	655.6	658.6	660.8	660.4
180°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	923.7	921.2	923.7	922.0	922.9	920.3	912.7	910.1	912.7	915.2	915.2
5°	934.8	933.1	934.8	934.8	934.0	932.3	923.7	922.0	923.7	924.6	922.9
7.5°	938.2	935.7	938.2	936.5	936.5	934.8	926.3	924.6	925.4	928.0	925.4
10°	938.2	935.7	938.2	937.4	936.5	934.8	926.3	922.9	922.9	925.4	922.9
12.5°	934.0	932.3	934.0	932.3	932.3	930.6	922.0	918.6	919.5	920.3	916.9
15°	927.1	924.6	927.1	925.4	926.3	923.7	914.4	911.0	911.0	912.7	906.6
17.5°	916.9	913.5	916.9	916.1	915.2	913.5	904.9	901.5	900.6	901.5	897.2
20°	904.9	902.4	904.9	904.1	904.1	900.6	892.1	887.9	887.9	887.9	883.6
22.5°	886.2	883.6	886.2	887.9	887.9	887.0	879.3	873.4	871.7	871.7	866.6
25°	864.9	862.3	864.9	864.9	864.0	864.9	862.3	858.9	856.3	853.8	848.7
27.5°	844.4	842.7	844.4	842.7	844.4	841.9	841.0	840.2	836.7	834.2	827.4
30°	824.0	822.3	824.0	822.3	820.6	818.9	814.6	812.9	816.3	814.6	803.5
32.5°	798.4	796.7	798.4	798.4	796.7	796.7	789.9	787.3	788.2	793.3	783.1
35°	772.0	769.4	772.0	771.1	772.0	769.4	765.2	764.3	760.9	766.9	759.2
37.5°	741.3	738.8	741.3	741.3	741.3	743.0	739.6	737.1	732.0	739.6	733.7
40°	709.8	706.4	709.8	708.9	709.8	711.5	709.8	708.1	703.0	708.9	703.8
42.5°	674.0	673.2	674.0	674.9	674.9	678.3	680.8	677.4	675.7	671.5	674.9
45°	635.7	634.0	635.7	637.4	638.2	639.9	647.6	647.6	645.0	638.2	643.3
47.5°	594.8	590.5	594.8	599.9	599.9	602.4	610.1	616.1	611.8	603.3	605.9
50°	551.3	552.2	551.3	554.7	554.7	564.1	570.1	576.0	580.3	570.1	558.1
52.5°	508.7	507.9	508.7	511.3	514.7	519.0	529.2	535.1	542.0	536.0	517.2
55°	466.1	467.8	466.1	467.0	468.7	471.2	486.6	492.5	505.3	497.7	478.1
57.5°	423.5	421.0	423.5	425.2	426.1	428.6	441.4	452.5	460.2	461.0	437.2
60°	374.1	370.7	374.1	381.8	383.5	385.2	397.1	407.3	414.2	416.7	392.0
62.5°	330.7	324.7	330.7	335.8	339.2	343.4	352.0	367.3	373.3	374.1	339.2
65°	284.6	282.0	284.6	294.8	295.6	300.8	310.2	321.3	334.1	332.4	282.0
67.5°	242.8	242.8	242.8	249.6	254.7	257.3	269.2	274.3	290.5	292.2	235.2
70°	204.5	203.6	204.5	209.6	213.0	219.0	230.0	236.0	248.8	253.0	190.8
72.5°	167.8	167.0	167.8	172.1	175.5	180.6	190.0	196.8	207.9	213.0	148.2
75°	135.5	133.8	135.5	138.9	138.0	144.8	152.5	159.3	169.5	173.0	109.9
77.5°	103.9	103.9	103.9	107.4	107.4	114.2	117.6	126.1	132.1	137.2	80.9
80°	77.5	76.7	77.5	78.4	78.4	81.8	87.8	93.7	98.8	98.8	55.4
82.5°	54.5	52.8	54.5	54.5	54.5	56.2	59.6	61.3	64.8	67.3	34.9
85°	34.1	34.1	34.1	34.9	34.1	35.8	36.6	38.3	38.3	36.6	21.3
87.5°	22.2	21.3	22.2	21.3	21.3	20.4	20.4	20.4	19.6	18.7	11.9
90°	16.8	16.8	16.8	16.8	16.8	22.3	29.7	33.5	28.8	19.4	12.4
92.5°	67.1	53.8	67.1	80.5	83.8	118.9	165.5	188.8	165.8	119.7	85.1
95°	234.0	193.7	234.0	274.4	284.6	373.7	492.5	551.8	466.0	294.5	165.9
97.5°	560.8	483.9	560.8	637.6	656.8	713.1	788.2	825.8	682.7	396.7	182.2
100°	808.0	716.4	808.0	899.5	922.4	918.3	912.7	910.0	751.3	433.9	195.9
102.5°	1051.1	972.7	1051.1	1129.6	1149.2	1077.4	981.8	933.9	772.9	451.0	209.5
105°	1361.2	1319.0	1361.2	1403.2	1413.8	1253.0	1038.5	931.2	775.4	463.7	229.9
107.5°	1564.2	1574.4	1564.2	1554.0	1551.4	1327.1	1027.9	878.3	740.9	466.0	259.9
110°	1641.6	1685.5	1641.6	1597.8	1586.8	1335.9	1001.4	834.2	710.3	462.5	276.6





TEST NUMBER: P935570

CATALOG NUMBER: SQ4-FA-125U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1648.5	1716.0	1648.5	1581.1	1564.3	1307.6	965.2	794.1	683.6	462.6	296.8
115°	1604.8	1698.4	1604.8	1511.3	1487.9	1240.6	910.8	745.9	652.9	466.9	327.3
117.5°	1512.1	1615.8	1512.1	1408.4	1382.5	1159.2	861.6	712.9	633.8	475.6	356.9
120°	1437.4	1538.2	1437.4	1336.7	1311.5	1107.5	835.6	699.7	627.3	482.7	374.1
122.5°	1364.6	1464.1	1364.6	1265.3	1240.4	1056.8	812.0	689.5	623.9	492.8	394.4
125°	1260.9	1352.5	1260.9	1169.4	1146.5	990.4	782.5	678.4	621.1	506.4	420.4
127.5°	1167.6	1244.9	1167.6	1090.4	1071.0	937.1	758.5	669.2	619.5	520.1	445.5
130°	1112.6	1184.0	1112.6	1041.2	1023.4	904.1	745.2	665.7	620.5	530.1	462.3
132.5°	1062.7	1126.6	1062.7	998.8	982.9	876.1	733.7	662.6	621.1	538.2	476.0
135°	994.4	1049.4	994.4	939.3	925.5	836.2	717.0	657.3	620.5	547.0	491.9
137.5°	939.5	984.6	939.5	894.3	883.1	807.5	706.7	656.4	624.3	560.2	512.1
140°	901.8	944.0	901.8	859.8	849.2	783.9	696.9	653.3	625.0	568.4	525.9
142.5°	870.7	907.0	870.7	834.4	825.3	768.0	691.6	653.3	627.2	575.1	536.0
145°	824.0	851.4	824.0	796.5	789.6	742.7	680.2	648.9	627.2	583.9	551.4
147.5°	788.0	810.8	788.0	765.4	759.6	722.8	673.5	648.9	631.5	596.8	570.8
150°	765.5	783.9	765.5	747.0	742.4	711.2	669.7	648.9	633.8	603.6	581.0
152.5°	746.1	760.1	746.1	732.2	728.7	702.1	666.6	648.9	635.3	608.1	587.6
155°	723.9	733.1	723.9	714.7	712.4	691.2	663.0	648.9	638.5	617.7	602.1
157.5°	706.4	712.9	706.4	699.9	698.3	681.9	659.9	648.9	641.7	627.4	616.7
160°	695.9	699.7	695.9	692.2	691.2	677.1	658.3	648.9	643.2	631.8	623.3
162.5°	689.1	692.6	689.1	685.5	684.7	672.7	656.8	648.9	644.8	636.5	630.4
165°	679.1	682.9	679.1	675.4	674.4	665.9	654.6	648.9	647.0	643.3	640.5
167.5°	672.1	673.6	672.1	670.5	670.1	664.5	657.1	653.3	651.8	648.6	646.2
170°	670.1	670.1	670.1	670.1	670.1	664.5	657.1	653.3	653.2	653.1	652.9
172.5°	664.8	663.5	664.8	666.2	666.5	662.1	656.2	653.3	653.3	653.3	653.3
175°	661.7	661.7	661.7	661.7	661.7	658.9	655.2	653.3	654.2	656.0	657.3
177.5°	658.9	657.3	658.9	660.4	660.8	658.6	655.6	654.2	654.8	656.3	657.3
180°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3



TEST NUMBER: P935570  
 CATALOG NUMBER: SQ4-FA-125U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	913.5	908.3	908.3	899.8	896.4	893.8	889.6	876.8	873.4	870.0	875.1
5°	921.2	911.8	904.9	889.6	876.8	871.7	855.5	824.8	804.4	789.0	780.5
7.5°	922.9	911.0	898.1	874.2	843.6	829.9	780.5	724.3	708.9	695.3	686.8
10°	921.2	907.5	889.6	853.8	781.4	757.5	708.1	671.5	662.1	659.5	662.1
12.5°	915.2	902.4	877.6	818.0	716.6	700.4	671.5	650.2	648.5	652.7	675.7
15°	904.9	893.0	864.0	770.3	680.8	668.9	648.5	640.8	650.2	680.0	749.0
17.5°	894.7	881.1	845.3	723.4	653.6	645.0	630.6	645.9	698.7	738.8	761.8
20°	881.1	864.9	824.0	689.4	634.0	626.3	619.5	688.5	728.5	743.0	755.8
22.5°	864.9	847.8	795.0	665.5	613.5	607.6	611.8	712.4	728.5	738.8	749.8
25°	843.6	829.1	760.9	646.8	597.3	590.5	606.7	709.8	719.2	721.7	743.9
27.5°	824.0	805.2	725.1	629.7	577.7	575.2	611.0	698.7	705.5	708.1	732.0
30°	800.1	772.0	685.1	611.8	557.3	556.4	611.8	685.1	683.4	690.2	714.1
32.5°	775.4	722.6	639.9	589.7	537.7	536.8	605.9	664.6	662.9	672.3	690.2
35°	752.4	684.2	578.6	564.1	513.0	513.8	591.4	640.8	641.6	650.2	661.2
37.5°	728.5	651.0	511.3	536.0	489.1	489.1	571.8	618.6	616.9	619.5	634.8
40°	700.4	599.0	451.6	499.4	467.0	464.4	547.9	594.8	588.8	588.0	609.3
42.5°	670.6	542.0	407.3	450.8	441.4	438.0	519.0	565.8	554.7	557.3	584.6
45°	638.2	526.6	373.3	380.9	415.0	412.5	487.4	532.6	524.9	531.7	559.8
47.5°	605.9	495.9	362.2	316.2	386.9	386.0	452.5	500.2	495.9	502.8	532.6
50°	561.6	461.9	361.3	270.9	355.4	358.8	410.7	468.7	468.7	474.6	506.2
52.5°	504.5	420.1	328.1	245.4	318.7	329.0	374.1	441.4	443.1	449.1	477.2
55°	452.5	376.7	304.2	225.8	275.2	297.3	338.3	413.3	416.7	422.7	448.2
57.5°	404.8	313.6	299.1	202.8	235.2	256.5	306.8	386.0	387.7	392.9	417.6
60°	353.7	226.6	274.3	178.1	200.2	216.4	277.8	353.7	359.6	363.0	384.3
62.5°	295.6	164.4	248.8	161.0	183.2	186.6	253.9	323.0	330.7	333.2	346.0
65°	210.4	138.0	211.3	146.5	165.3	166.1	228.3	291.4	298.2	302.5	311.9
67.5°	142.3	112.5	161.0	132.9	151.7	152.5	203.6	254.7	264.1	267.5	273.5
70°	98.8	75.0	119.3	118.4	136.3	138.0	177.2	221.5	230.0	232.6	236.0
72.5°	72.4	60.5	98.8	106.5	120.1	121.8	150.0	184.0	192.6	195.1	196.8
75°	55.4	63.9	80.1	92.9	102.2	103.1	122.7	150.0	155.9	157.6	158.5
77.5°	44.3	59.6	58.8	75.0	83.5	81.8	96.3	115.9	121.0	121.0	121.0
80°	33.2	46.9	44.3	53.7	61.3	59.6	69.0	82.6	84.3	86.1	85.2
82.5°	24.7	29.8	29.8	34.1	40.9	39.2	46.0	53.7	53.7	53.7	55.4
85°	15.3	17.0	13.6	17.9	23.0	22.2	25.6	29.0	29.8	29.8	28.1
87.5°	9.4	7.7	4.3	6.8	10.2	10.2	11.9	12.8	11.9	11.9	11.9
90°	11.5	7.9	4.4	7.9	11.5	12.4	19.4	28.8	33.5	29.7	22.3
92.5°	77.6	47.6	17.6	47.6	77.6	85.1	119.7	165.8	188.8	165.5	118.9
95°	152.2	97.2	42.3	97.2	152.2	165.9	294.5	466.0	551.8	492.5	373.7
97.5°	170.1	121.6	73.2	121.6	170.1	182.2	396.7	682.7	825.8	788.2	713.1
100°	184.9	141.0	97.0	141.0	184.9	195.9	433.9	751.3	910.0	912.7	918.3
102.5°	199.3	158.3	117.3	158.3	199.3	209.5	451.0	772.9	933.9	981.8	1077.4
105°	221.2	186.5	151.7	186.5	221.2	229.9	463.7	775.4	931.2	1038.5	1253.0
107.5°	251.8	219.4	187.0	219.4	251.8	259.9	466.0	740.9	878.3	1027.9	1327.1
110°	269.2	240.1	210.9	240.1	269.2	276.6	462.5	710.3	834.2	1001.4	1335.9



TEST NUMBER: P935570

CATALOG NUMBER: SQ4-FA-125U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	289.9	262.1	234.2	262.1	289.9	296.8	462.6	683.6	794.1	965.2	1307.6
115°	320.9	295.2	269.5	295.2	320.9	327.3	466.9	652.9	745.9	910.8	1240.6
117.5°	351.1	327.8	304.4	327.8	351.1	356.9	475.6	633.8	712.9	861.6	1159.2
120°	368.7	346.7	324.7	346.7	368.7	374.1	482.7	627.3	699.7	835.6	1107.5
122.5°	388.9	366.7	344.5	366.7	388.9	394.4	492.8	623.9	689.5	812.0	1056.8
125°	415.4	395.2	375.0	395.2	415.4	420.4	506.4	621.1	678.4	782.5	990.4
127.5°	440.4	420.0	399.7	420.0	440.4	445.5	520.1	619.5	669.2	758.5	937.1
130°	456.8	434.9	412.9	434.9	456.8	462.3	530.1	620.5	665.7	745.2	904.1
132.5°	470.6	448.6	426.6	448.6	470.6	476.0	538.2	621.1	662.6	733.7	876.1
135°	486.8	466.9	446.9	466.9	486.8	491.9	547.0	620.5	657.3	717.0	836.2
137.5°	507.2	487.3	467.6	487.3	507.2	512.1	560.2	624.3	656.4	706.7	807.5
140°	521.3	503.0	484.8	503.0	521.3	525.9	568.4	625.0	653.3	696.9	783.9
142.5°	531.7	514.9	498.0	514.9	531.7	536.0	575.1	627.2	653.3	691.6	768.0
145°	547.8	533.0	518.4	533.0	547.8	551.4	583.9	627.2	648.9	680.2	742.7
147.5°	567.3	552.9	538.6	552.9	567.3	570.8	596.8	631.5	648.9	673.5	722.8
150°	577.7	564.8	551.8	564.8	577.7	581.0	603.6	633.8	648.9	669.7	711.2
152.5°	585.2	575.4	565.6	575.4	585.2	587.6	608.1	635.3	648.9	666.6	702.1
155°	600.3	593.1	585.8	593.1	600.3	602.1	617.7	638.5	648.9	663.0	691.2
157.5°	614.9	607.9	600.8	607.9	614.9	616.7	627.4	641.7	648.9	659.9	681.9
160°	622.0	616.4	611.0	616.4	622.0	623.3	631.8	643.2	648.9	658.3	677.1
162.5°	629.4	625.2	621.1	625.2	629.4	630.4	636.5	644.8	648.9	656.8	672.7
165°	639.6	635.8	632.1	635.8	639.6	640.5	643.3	647.0	648.9	654.6	665.9
167.5°	645.8	644.0	642.3	644.0	645.8	646.2	648.6	651.8	653.3	657.1	664.5
170°	652.5	650.7	648.9	650.7	652.5	652.9	653.1	653.2	653.3	657.1	664.5
172.5°	653.2	652.8	652.5	652.8	653.2	653.3	653.3	653.3	653.3	656.2	662.1
175°	657.3	657.3	657.3	657.3	657.3	657.3	656.0	654.2	653.3	655.2	658.9
177.5°	657.3	657.3	657.3	657.3	657.3	657.3	656.3	654.8	654.2	655.6	658.6
180°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3



TEST NUMBER: P935570  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	869.1	866.6	870.0	860.6	870.0	866.6	869.1	875.1	870.0	873.4	876.8
5°	762.6	758.4	744.7	733.7	744.7	758.4	762.6	780.5	789.0	804.4	824.8
7.5°	681.7	678.3	674.9	668.1	674.9	678.3	681.7	686.8	695.3	708.9	724.3
10°	663.8	664.6	669.8	668.9	669.8	664.6	663.8	662.1	659.5	662.1	671.5
12.5°	709.8	717.5	745.6	743.9	745.6	717.5	709.8	675.7	652.7	648.5	650.2
15°	762.6	765.2	771.1	772.0	771.1	765.2	762.6	749.0	680.0	650.2	640.8
17.5°	767.7	768.6	772.8	772.8	772.8	768.6	767.7	761.8	738.8	698.7	645.9
20°	763.5	765.2	773.7	775.4	773.7	765.2	763.5	755.8	743.0	728.5	688.5
22.5°	761.8	765.2	772.0	771.1	772.0	765.2	761.8	749.8	738.8	728.5	712.4
25°	753.3	753.3	754.1	755.0	754.1	753.3	753.3	743.9	721.7	719.2	709.8
27.5°	735.4	737.1	742.2	741.3	742.2	737.1	735.4	732.0	708.1	705.5	698.7
30°	719.2	717.5	713.2	709.8	713.2	717.5	719.2	714.1	690.2	683.4	685.1
32.5°	691.9	687.6	683.4	680.8	683.4	687.6	691.9	690.2	672.3	662.9	664.6
35°	659.5	660.4	659.5	657.0	659.5	660.4	659.5	661.2	650.2	641.6	640.8
37.5°	636.5	638.2	637.4	634.0	637.4	638.2	636.5	634.8	619.5	616.9	618.6
40°	612.7	613.5	612.7	610.1	612.7	613.5	612.7	609.3	588.0	588.8	594.8
42.5°	589.7	588.8	586.3	584.6	586.3	588.8	589.7	584.6	557.3	554.7	565.8
45°	563.3	564.1	559.0	556.4	559.0	564.1	563.3	559.8	531.7	524.9	532.6
47.5°	536.8	536.8	532.6	530.0	532.6	536.8	536.8	532.6	502.8	495.9	500.2
50°	508.7	507.9	501.9	501.1	501.9	507.9	508.7	506.2	474.6	468.7	468.7
52.5°	476.4	476.4	477.2	478.9	477.2	476.4	476.4	477.2	449.1	443.1	441.4
55°	448.2	449.1	455.1	456.8	455.1	449.1	448.2	448.2	422.7	416.7	413.3
57.5°	419.3	419.3	423.5	423.5	423.5	419.3	419.3	417.6	392.9	387.7	386.0
60°	386.0	387.7	391.2	390.3	391.2	387.7	386.0	384.3	363.0	359.6	353.7
62.5°	351.1	352.8	353.7	352.0	353.7	352.8	351.1	346.0	333.2	330.7	323.0
65°	314.5	316.2	317.0	315.3	317.0	316.2	314.5	311.9	302.5	298.2	291.4
67.5°	276.9	276.0	275.2	278.6	275.2	276.0	276.9	273.5	267.5	264.1	254.7
70°	238.6	238.6	237.7	239.4	237.7	238.6	238.6	236.0	232.6	230.0	221.5
72.5°	197.7	196.8	200.2	197.7	200.2	196.8	197.7	196.8	195.1	192.6	184.0
75°	157.6	159.3	157.6	160.2	157.6	159.3	157.6	158.5	157.6	155.9	150.0
77.5°	120.1	121.8	120.1	120.1	120.1	121.8	120.1	121.0	121.0	121.0	115.9
80°	85.2	84.3	84.3	83.5	84.3	84.3	85.2	85.2	86.1	84.3	82.6
82.5°	54.5	53.7	53.7	55.4	53.7	53.7	54.5	55.4	53.7	53.7	53.7
85°	29.8	30.7	29.0	29.0	29.0	30.7	29.8	28.1	29.8	29.8	29.0
87.5°	11.1	10.2	10.2	10.2	10.2	10.2	11.1	11.9	11.9	11.9	12.8
90°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	22.3	29.7	33.5	28.8
92.5°	83.8	80.5	67.1	53.8	67.1	80.5	83.8	118.9	165.5	188.8	165.8
95°	284.6	274.4	234.0	193.7	234.0	274.4	284.6	373.7	492.5	551.8	466.0
97.5°	656.8	637.6	560.8	483.9	560.8	637.6	656.8	713.1	788.2	825.8	682.7
100°	922.4	899.5	808.0	716.4	808.0	899.5	922.4	918.3	912.7	910.0	751.3
102.5°	1149.2	1129.6	1051.1	972.7	1051.1	1129.6	1149.2	1077.4	981.8	933.9	772.9
105°	1413.8	1403.2	1361.2	1319.0	1361.2	1403.2	1413.8	1253.0	1038.5	931.2	775.4
107.5°	1551.4	1554.0	1564.2	1574.4	1564.2	1554.0	1551.4	1327.1	1027.9	878.3	740.9
110°	1586.8	1597.8	1641.6	1685.5	1641.6	1597.8	1586.8	1335.9	1001.4	834.2	710.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1564.3	1581.1	1648.5	1716.0	1648.5	1581.1	1564.3	1307.6	965.2	794.1	683.6
115°	1487.9	1511.3	1604.8	1698.4	1604.8	1511.3	1487.9	1240.6	910.8	745.9	652.9
117.5°	1382.5	1408.4	1512.1	1615.8	1512.1	1408.4	1382.5	1159.2	861.6	712.9	633.8
120°	1311.5	1336.7	1437.4	1538.2	1437.4	1336.7	1311.5	1107.5	835.6	699.7	627.3
122.5°	1240.4	1265.3	1364.6	1464.1	1364.6	1265.3	1240.4	1056.8	812.0	689.5	623.9
125°	1146.5	1169.4	1260.9	1352.5	1260.9	1169.4	1146.5	990.4	782.5	678.4	621.1
127.5°	1071.0	1090.4	1167.6	1244.9	1167.6	1090.4	1071.0	937.1	758.5	669.2	619.5
130°	1023.4	1041.2	1112.6	1184.0	1112.6	1041.2	1023.4	904.1	745.2	665.7	620.5
132.5°	982.9	998.8	1062.7	1126.6	1062.7	998.8	982.9	876.1	733.7	662.6	621.1
135°	925.5	939.3	994.4	1049.4	994.4	939.3	925.5	836.2	717.0	657.3	620.5
137.5°	883.1	894.3	939.5	984.6	939.5	894.3	883.1	807.5	706.7	656.4	624.3
140°	849.2	859.8	901.8	944.0	901.8	859.8	849.2	783.9	696.9	653.3	625.0
142.5°	825.3	834.4	870.7	907.0	870.7	834.4	825.3	768.0	691.6	653.3	627.2
145°	789.6	796.5	824.0	851.4	824.0	796.5	789.6	742.7	680.2	648.9	627.2
147.5°	759.6	765.4	788.0	810.8	788.0	765.4	759.6	722.8	673.5	648.9	631.5
150°	742.4	747.0	765.5	783.9	765.5	747.0	742.4	711.2	669.7	648.9	633.8
152.5°	728.7	732.2	746.1	760.1	746.1	732.2	728.7	702.1	666.6	648.9	635.3
155°	712.4	714.7	723.9	733.1	723.9	714.7	712.4	691.2	663.0	648.9	638.5
157.5°	698.3	699.9	706.4	712.9	706.4	699.9	698.3	681.9	659.9	648.9	641.7
160°	691.2	692.2	695.9	699.7	695.9	692.2	691.2	677.1	658.3	648.9	643.2
162.5°	684.7	685.5	689.1	692.6	689.1	685.5	684.7	672.7	656.8	648.9	644.8
165°	674.4	675.4	679.1	682.9	679.1	675.4	674.4	665.9	654.6	648.9	647.0
167.5°	670.1	670.5	672.1	673.6	672.1	670.5	670.1	664.5	657.1	653.3	651.8
170°	670.1	670.1	670.1	670.1	670.1	670.1	670.1	664.5	657.1	653.3	653.2
172.5°	666.5	666.2	664.8	663.5	664.8	666.2	666.5	662.1	656.2	653.3	653.3
175°	661.7	661.7	661.7	661.7	661.7	661.7	661.7	658.9	655.2	653.3	654.2
177.5°	660.8	660.4	658.9	657.3	658.9	660.4	660.8	658.6	655.6	654.2	654.8
180°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	900.6	900.6	900.6	900.6	900.6
2.5°	889.6	893.8	896.4	899.8	908.3
5°	855.5	871.7	876.8	889.6	904.9
7.5°	780.5	829.9	843.6	874.2	898.1
10°	708.1	757.5	781.4	853.8	889.6
12.5°	671.5	700.4	716.6	818.0	877.6
15°	648.5	668.9	680.8	770.3	864.0
17.5°	630.6	645.0	653.6	723.4	845.3
20°	619.5	626.3	634.0	689.4	824.0
22.5°	611.8	607.6	613.5	665.5	795.0
25°	606.7	590.5	597.3	646.8	760.9
27.5°	611.0	575.2	577.7	629.7	725.1
30°	611.8	556.4	557.3	611.8	685.1
32.5°	605.9	536.8	537.7	589.7	639.9
35°	591.4	513.8	513.0	564.1	578.6
37.5°	571.8	489.1	489.1	536.0	511.3
40°	547.9	464.4	467.0	499.4	451.6
42.5°	519.0	438.0	441.4	450.8	407.3
45°	487.4	412.5	415.0	380.9	373.3
47.5°	452.5	386.0	386.9	316.2	362.2
50°	410.7	358.8	355.4	270.9	361.3
52.5°	374.1	329.0	318.7	245.4	328.1
55°	338.3	297.3	275.2	225.8	304.2
57.5°	306.8	256.5	235.2	202.8	299.1
60°	277.8	216.4	200.2	178.1	274.3
62.5°	253.9	186.6	183.2	161.0	248.8
65°	228.3	166.1	165.3	146.5	211.3
67.5°	203.6	152.5	151.7	132.9	161.0
70°	177.2	138.0	136.3	118.4	119.3
72.5°	150.0	121.8	120.1	106.5	98.8
75°	122.7	103.1	102.2	92.9	80.1
77.5°	96.3	81.8	83.5	75.0	58.8
80°	69.0	59.6	61.3	53.7	44.3
82.5°	46.0	39.2	40.9	34.1	29.8
85°	25.6	22.2	23.0	17.9	13.6
87.5°	11.9	10.2	10.2	6.8	4.3
90°	19.4	12.4	11.5	7.9	4.4
92.5°	119.7	85.1	77.6	47.6	17.6
95°	294.5	165.9	152.2	97.2	42.3
97.5°	396.7	182.2	170.1	121.6	73.2
100°	433.9	195.9	184.9	141.0	97.0
102.5°	451.0	209.5	199.3	158.3	117.3
105°	463.7	229.9	221.2	186.5	151.7
107.5°	466.0	259.9	251.8	219.4	187.0
110°	462.5	276.6	269.2	240.1	210.9



TEST NUMBER: P935570

CATALOG NUMBER: SQ4-FA-125U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	462.6	296.8	289.9	262.1	234.2
115°	466.9	327.3	320.9	295.2	269.5
117.5°	475.6	356.9	351.1	327.8	304.4
120°	482.7	374.1	368.7	346.7	324.7
122.5°	492.8	394.4	388.9	366.7	344.5
125°	506.4	420.4	415.4	395.2	375.0
127.5°	520.1	445.5	440.4	420.0	399.7
130°	530.1	462.3	456.8	434.9	412.9
132.5°	538.2	476.0	470.6	448.6	426.6
135°	547.0	491.9	486.8	466.9	446.9
137.5°	560.2	512.1	507.2	487.3	467.6
140°	568.4	525.9	521.3	503.0	484.8
142.5°	575.1	536.0	531.7	514.9	498.0
145°	583.9	551.4	547.8	533.0	518.4
147.5°	596.8	570.8	567.3	552.9	538.6
150°	603.6	581.0	577.7	564.8	551.8
152.5°	608.1	587.6	585.2	575.4	565.6
155°	617.7	602.1	600.3	593.1	585.8
157.5°	627.4	616.7	614.9	607.9	600.8
160°	631.8	623.3	622.0	616.4	611.0
162.5°	636.5	630.4	629.4	625.2	621.1
165°	643.3	640.5	639.6	635.8	632.1
167.5°	648.6	646.2	645.8	644.0	642.3
170°	653.1	652.9	652.5	650.7	648.9
172.5°	653.3	653.3	653.2	652.8	652.5
175°	656.0	657.3	657.3	657.3	657.3
177.5°	656.3	657.3	657.3	657.3	657.3
180°	657.3	657.3	657.3	657.3	657.3



TEST NUMBER: P935570  
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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	10.65	11.39	11.72	12.47	13.93	13.45	14.19	14.52	15.26	16.73
	3H	11.12	11.78	12.20	12.87	14.35	14.77	15.44	15.85	16.52	18.00
	4H	11.30	11.93	12.40	13.02	14.51	15.20	15.84	16.30	16.92	18.41
	6H	11.42	12.00	12.52	13.08	14.59	15.47	16.06	16.58	17.14	18.65
	8H	11.41	11.97	12.52	13.07	14.57	15.54	16.09	16.65	17.20	18.69
	12H	11.38	11.91	12.49	13.00	14.52	15.57	16.10	16.68	17.19	18.71
4H	2H	11.66	12.29	12.76	13.38	14.86	13.84	14.47	14.94	15.56	17.05
	3H	12.67	13.20	13.78	14.31	15.81	15.33	15.85	16.43	16.96	18.47
	4H	12.95	13.43	14.06	14.53	16.05	15.84	16.33	16.95	17.43	18.95
	6H	13.06	13.48	14.18	14.60	16.12	16.19	16.61	17.31	17.73	19.25
	8H	13.07	13.45	14.19	14.57	16.10	16.29	16.68	17.41	17.80	19.33
	12H	13.03	13.38	14.16	14.51	16.04	16.34	16.69	17.47	17.82	19.35
8H	4H	13.38	13.77	14.50	14.89	16.42	15.96	16.35	17.08	17.46	18.99
	6H	13.64	13.96	14.78	15.12	16.65	16.38	16.70	17.52	17.86	19.39
	8H	13.68	13.96	14.83	15.10	16.65	16.53	16.81	17.67	17.95	19.49
	12H	13.66	13.91	14.81	15.04	16.63	16.62	16.86	17.77	18.00	19.58
12H	4H	13.38	13.73	14.52	14.86	16.40	15.92	16.27	17.05	17.40	18.93
	6H	13.70	13.98	14.85	15.12	16.67	16.38	16.66	17.52	17.80	19.34
	8H	13.76	14.01	14.91	15.14	16.72	16.53	16.77	17.68	17.91	19.49