

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: P934671

Luminaire Tested: SQ4-FA-075U-050D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

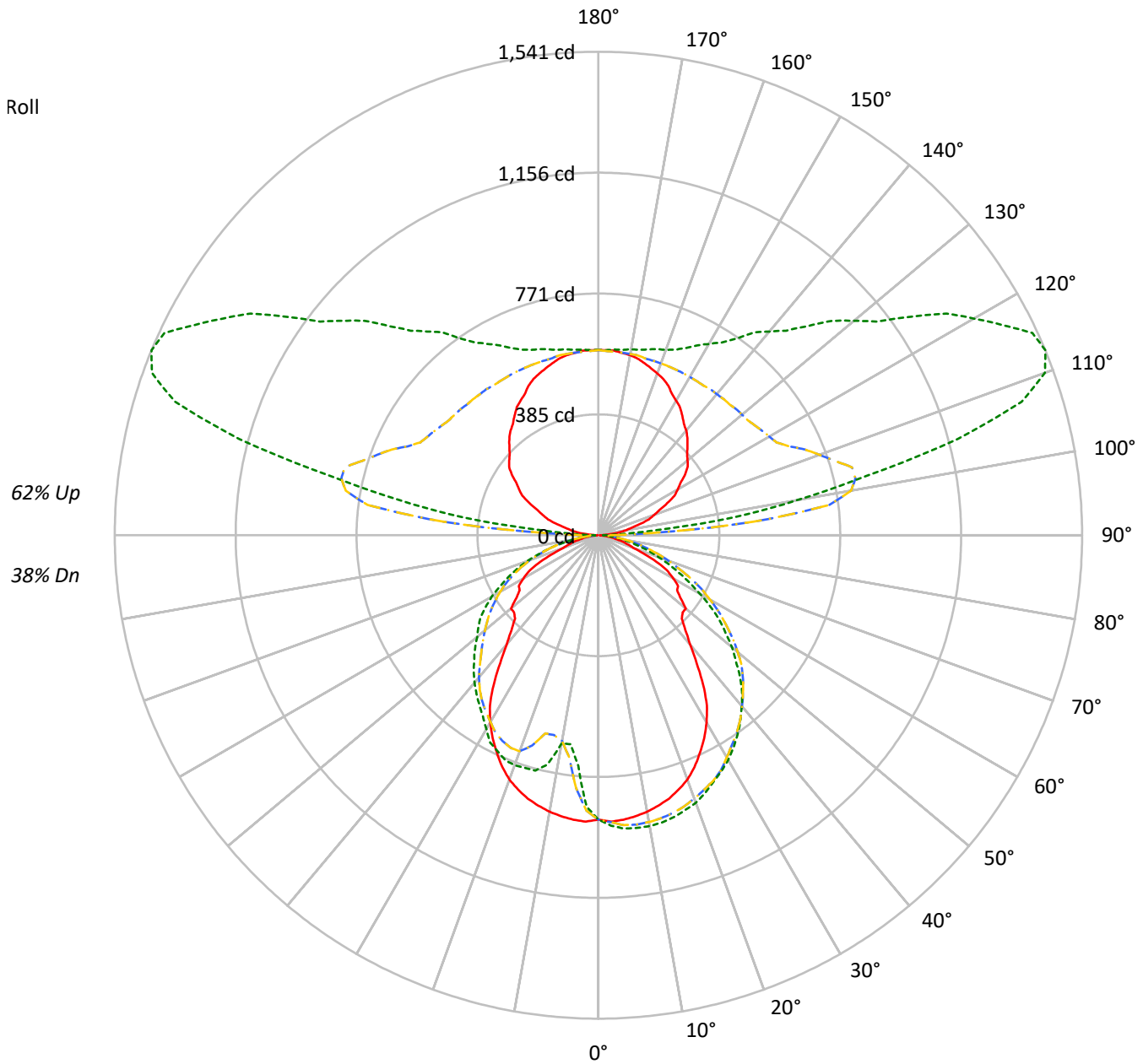
Test Method: LM-79-2019  
Report Number: P934671  
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6177.9 lumens  
Efficiency: N/A  
Efficacy: 119.7 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

TEST NUMBER: P934671  
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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	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°	5604	5604	5604	5604
5°	5644	5657	5644	4448
10°	5604	5573	5604	3984
15°	5541	5452	5541	4552
20°	5423	5309	5423	4562
25°	5184	5100	5184	4465
30°	4875	4927	4875	4253
35°	4345	4708	4345	4020
40°	3618	4451	3618	3844
45°	3230	4148	3230	3641
50°	3429	3788	3429	3438
55°	3224	3401	3224	3320
60°	3319	2888	3319	3040
65°	3005	2387	3005	2668
70°	2075	1902	2075	2237
75°	1814	1406	1814	1684
80°	1452	929	1452	1012
85°	817	493	817	418

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4955 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	1.3
10°-20°	232.2	3.8
20°-30°	358.9	5.8
30°-40°	428.5	6.9
40°-50°	431.0	7.0
50°-60°	375.0	6.1
60°-70°	265.9	4.3
70°-80°	140.7	2.3
80°-90°	37.3	0.6
90°-100°	287.7	4.7
100°-110°	756.5	12.2
110°-120°	784.4	12.7
120°-130°	629.2	10.2
130°-140°	493.7	8.0
140°-150°	378.9	6.1
150°-160°	272.9	4.4
160°-170°	167.0	2.7
170°-180°	56.4	0.9
0°-30°	672.9	10.9
0°-40°	1101.4	17.8
0°-60°	1907.4	30.9
0°-90°	2351.2	38.1
90°-120°	1828.6	29.6
90°-150°	3330.4	53.9
90°-180°	3827.0	61.9
0°-180°	6177.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	906	906	906	906	906	
5°	910	938	910	738	910	86
15°	869	930	869	776	869	245
25°	765	867	765	759	765	351
35°	582	774	582	661	582	360
45°	375	638	375	560	375	301
55°	306	471	306	459	306	281
65°	213	284	213	317	213	203
75°	81	134	81	161	81	85
85°	14	34	14	29	14	19
90°	4	15	4	15	4	4
95°	38	174	38	174	38	42
105°	136	1184	136	1184	136	145
115°	242	1525	242	1525	242	239
125°	337	1215	337	1215	337	299
135°	401	942	401	942	401	311
145°	466	765	466	765	466	292
155°	526	658	526	658	526	242
165°	568	613	568	613	568	160
175°	590	594	590	594	590	56
180°	590	590	590	590	590	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	913.7	913.7	918.8	920.5	920.5	917.9	915.4	917.9	925.7	928.3	927.4
5°	910.2	917.1	926.6	928.3	930.0	929.1	927.4	929.1	937.6	939.4	940.3
7.5°	903.4	916.2	928.3	930.8	933.4	930.8	930.0	931.7	940.3	942.0	942.0
10°	894.8	912.8	926.6	928.3	930.8	928.3	928.3	931.7	940.3	942.0	942.8
12.5°	882.8	907.6	920.5	922.2	925.7	924.8	923.9	927.4	935.9	937.6	937.6
15°	869.1	898.3	910.2	912.0	917.9	916.2	916.2	919.6	929.1	931.7	930.8
17.5°	850.2	886.3	900.0	902.5	906.8	905.9	906.8	910.2	918.8	920.5	921.4
20°	828.8	870.0	886.3	888.8	893.1	893.1	893.1	897.4	905.9	909.3	909.3
22.5°	799.7	852.8	870.0	871.7	876.8	876.8	878.5	884.5	892.2	893.1	893.1
25°	765.4	833.9	848.5	853.7	858.8	861.4	863.9	867.4	870.0	869.1	870.0
27.5°	729.4	809.9	828.8	832.2	839.1	841.7	845.1	846.0	846.8	849.4	847.7
30°	689.1	776.5	804.8	808.2	819.4	821.1	817.7	819.4	823.6	825.4	827.1
32.5°	643.7	726.8	779.9	787.7	798.0	792.8	791.9	794.5	801.4	801.4	803.1
35°	582.0	688.2	756.8	763.6	771.4	765.4	768.8	769.7	774.0	776.5	775.7
37.5°	514.3	654.8	732.8	737.9	744.0	736.2	741.4	744.0	747.4	745.7	745.7
40°	454.3	602.5	704.5	707.9	713.1	707.1	712.3	714.0	715.7	714.0	713.1
42.5°	409.7	545.1	674.5	678.8	675.4	679.6	681.4	684.8	682.3	678.8	678.8
45°	375.4	529.7	642.0	647.1	642.0	648.8	651.4	651.4	643.7	642.0	641.1
47.5°	364.2	498.8	609.4	609.4	606.8	615.4	619.7	613.7	605.9	603.4	603.4
50°	363.4	464.5	564.8	561.4	573.4	583.7	579.4	573.4	567.4	558.0	558.0
52.5°	330.0	422.5	507.4	520.2	539.1	545.1	538.3	532.2	521.9	517.7	514.3
55°	306.0	378.8	455.1	480.9	500.6	508.2	495.4	489.4	474.0	471.4	469.7
57.5°	300.8	315.4	407.1	439.7	463.7	462.8	455.1	444.0	431.1	428.6	427.7
60°	276.0	228.0	355.7	394.3	419.1	416.5	409.7	399.4	387.4	385.7	384.0
62.5°	250.2	165.5	297.4	341.1	376.2	375.4	369.4	354.0	345.4	341.1	337.7
65°	212.6	138.9	211.7	283.7	334.2	335.9	323.2	312.0	302.5	297.4	296.6
67.5°	162.0	113.1	143.1	236.6	294.0	292.2	276.0	270.9	258.8	256.3	251.2
70°	120.0	75.4	99.4	192.0	254.6	250.2	237.5	231.4	220.2	214.3	210.9
72.5°	99.4	60.8	72.8	149.1	214.3	209.2	198.0	191.1	181.7	176.5	173.1
75°	80.6	64.2	55.7	110.6	174.0	170.6	160.3	153.4	145.7	138.9	139.7
77.5°	59.1	60.0	44.6	81.5	138.0	132.8	126.9	118.3	114.8	108.0	108.0
80°	44.6	47.1	33.4	55.7	99.4	99.4	94.3	88.3	82.3	78.9	78.9
82.5°	30.0	30.0	24.9	35.1	67.7	65.2	61.7	60.0	56.6	54.9	54.9
85°	13.7	17.1	15.4	21.4	36.9	38.6	38.6	36.9	36.0	34.3	35.1
87.5°	4.3	7.8	9.5	12.0	18.8	19.7	20.5	20.5	20.5	21.4	21.4
90°	3.9	7.1	10.3	11.1	17.4	25.8	30.1	26.8	20.1	15.1	15.1
92.5°	15.8	42.8	69.7	76.4	107.4	148.8	169.5	148.6	106.7	75.2	72.2
95°	38.0	87.3	136.6	148.9	264.5	418.6	495.6	442.3	335.5	255.5	246.5
97.5°	65.8	109.2	152.7	163.6	356.3	613.2	741.7	707.9	640.5	589.9	572.6
100°	87.2	126.6	166.1	175.9	389.7	674.8	817.3	819.8	824.7	828.4	807.9
102.5°	105.4	142.2	179.0	188.2	405.0	694.1	838.7	881.6	967.6	1032.0	1014.4
105°	136.3	167.5	198.7	206.4	416.4	696.3	836.3	932.6	1125.2	1269.7	1260.3
107.5°	168.0	197.1	226.1	233.4	418.5	665.3	788.8	923.1	1191.9	1393.4	1395.7
110°	189.4	215.6	241.8	248.4	415.3	637.9	749.2	899.4	1199.8	1425.1	1434.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	210.4	235.3	260.4	266.6	415.4	613.9	713.1	866.8	1174.2	1404.8	1419.9
115°	242.1	265.1	288.1	293.9	419.3	586.3	669.9	818.0	1114.2	1336.3	1357.2
117.5°	273.3	294.3	315.2	320.5	427.1	569.1	640.2	773.9	1041.1	1241.6	1264.9
120°	291.6	311.3	331.0	335.9	433.4	563.3	628.4	750.4	994.6	1177.8	1200.5
122.5°	309.4	329.3	349.2	354.2	442.5	560.4	619.2	729.1	949.0	1114.0	1136.3
125°	336.7	354.9	373.0	377.5	454.8	557.8	609.4	702.7	889.6	1029.6	1050.2
127.5°	358.9	377.3	395.5	400.1	467.1	556.4	601.0	681.2	841.6	961.9	979.3
130°	370.8	390.6	410.2	415.2	476.1	557.3	597.8	669.2	812.0	919.1	935.2
132.5°	383.1	402.8	422.5	427.4	483.3	557.8	595.0	658.9	786.8	882.7	897.0
135°	401.3	419.3	437.2	441.8	491.3	557.3	590.3	643.8	750.9	831.1	843.5
137.5°	420.0	437.7	455.5	459.9	503.1	560.7	589.5	634.7	725.2	793.1	803.3
140°	435.4	451.7	468.2	472.3	510.4	561.3	586.7	625.8	704.0	762.6	772.1
142.5°	447.3	462.5	477.6	481.4	516.5	563.3	586.7	621.0	689.7	741.2	749.4
145°	465.5	478.7	491.9	495.2	524.4	563.3	582.8	610.9	667.0	709.1	715.3
147.5°	483.7	496.5	509.4	512.6	536.0	567.2	582.8	604.8	649.1	682.2	687.3
150°	495.6	507.2	518.9	521.8	542.1	569.2	582.8	601.4	638.7	666.8	670.9
152.5°	507.9	516.7	525.5	527.7	546.0	570.5	582.8	598.7	630.6	654.5	657.7
155°	526.1	532.6	539.1	540.8	554.7	573.4	582.8	595.5	620.9	639.9	641.9
157.5°	539.6	546.0	552.3	553.9	563.5	576.4	582.8	592.7	612.3	627.2	628.6
160°	548.7	553.6	558.6	559.8	567.4	577.7	582.8	591.2	608.1	620.8	621.6
162.5°	557.8	561.6	565.2	566.2	571.7	579.1	582.8	589.9	604.2	614.9	615.7
165°	567.7	571.1	574.4	575.3	577.7	581.1	582.8	587.9	598.1	605.8	606.6
167.5°	576.8	578.4	580.0	580.4	582.5	585.3	586.7	590.0	596.7	601.8	602.1
170°	582.8	584.4	585.9	586.3	586.4	586.6	586.7	590.0	596.7	601.8	601.8
172.5°	585.9	586.3	586.6	586.7	586.7	586.7	586.7	589.3	594.6	598.6	598.3
175°	590.3	590.3	590.3	590.3	589.1	587.5	586.7	588.4	591.7	594.3	594.3
177.5°	590.3	590.3	590.3	590.3	589.3	588.1	587.5	588.9	591.5	593.5	593.2
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	929.1	926.6	929.1	927.4	928.3	925.7	917.9	915.4	917.9	920.5	920.5
5°	940.3	938.5	940.3	940.3	939.4	937.6	929.1	927.4	929.1	930.0	928.3
7.5°	943.7	941.1	943.7	942.0	942.0	940.3	931.7	930.0	930.8	933.4	930.8
10°	943.7	941.1	943.7	942.8	942.0	940.3	931.7	928.3	928.3	930.8	928.3
12.5°	939.4	937.6	939.4	937.6	937.6	935.9	927.4	923.9	924.8	925.7	922.2
15°	932.5	930.0	932.5	930.8	931.7	929.1	919.6	916.2	916.2	917.9	912.0
17.5°	922.2	918.8	922.2	921.4	920.5	918.8	910.2	906.8	905.9	906.8	902.5
20°	910.2	907.6	910.2	909.3	909.3	905.9	897.4	893.1	893.1	893.1	888.8
22.5°	891.4	888.8	891.4	893.1	893.1	892.2	884.5	878.5	876.8	876.8	871.7
25°	870.0	867.4	870.0	870.0	869.1	870.0	867.4	863.9	861.4	858.8	853.7
27.5°	849.4	847.7	849.4	847.7	849.4	846.8	846.0	845.1	841.7	839.1	832.2
30°	828.8	827.1	828.8	827.1	825.4	823.6	819.4	817.7	821.1	819.4	808.2
32.5°	803.1	801.4	803.1	803.1	801.4	801.4	794.5	791.9	792.8	798.0	787.7
35°	776.5	774.0	776.5	775.7	776.5	774.0	769.7	768.8	765.4	771.4	763.6
37.5°	745.7	743.1	745.7	745.7	745.7	747.4	744.0	741.4	736.2	744.0	737.9
40°	714.0	710.6	714.0	713.1	714.0	715.7	714.0	712.3	707.1	713.1	707.9
42.5°	677.9	677.1	677.9	678.8	678.8	682.3	684.8	681.4	679.6	675.4	678.8
45°	639.4	637.6	639.4	641.1	642.0	643.7	651.4	651.4	648.8	642.0	647.1
47.5°	598.3	593.9	598.3	603.4	603.4	605.9	613.7	619.7	615.4	606.8	609.4
50°	554.6	555.4	554.6	558.0	558.0	567.4	573.4	579.4	583.7	573.4	561.4
52.5°	511.7	510.9	511.7	514.3	517.7	521.9	532.2	538.3	545.1	539.1	520.2
55°	468.9	470.6	468.9	469.7	471.4	474.0	489.4	495.4	508.2	500.6	480.9
57.5°	426.0	423.4	426.0	427.7	428.6	431.1	444.0	455.1	462.8	463.7	439.7
60°	376.2	372.8	376.2	384.0	385.7	387.4	399.4	409.7	416.5	419.1	394.3
62.5°	332.5	326.6	332.5	337.7	341.1	345.4	354.0	369.4	375.4	376.2	341.1
65°	286.3	283.7	286.3	296.6	297.4	302.5	312.0	323.2	335.9	334.2	283.7
67.5°	244.3	244.3	244.3	251.2	256.3	258.8	270.9	276.0	292.2	294.0	236.6
70°	205.7	204.8	205.7	210.9	214.3	220.2	231.4	237.5	250.2	254.6	192.0
72.5°	168.9	168.0	168.9	173.1	176.5	181.7	191.1	198.0	209.2	214.3	149.1
75°	136.3	134.5	136.3	139.7	138.9	145.7	153.4	160.3	170.6	174.0	110.6
77.5°	104.5	104.5	104.5	108.0	108.0	114.8	118.3	126.9	132.8	138.0	81.5
80°	78.0	77.1	78.0	78.9	78.9	82.3	88.3	94.3	99.4	99.4	55.7
82.5°	54.9	53.2	54.9	54.9	54.9	56.6	60.0	61.7	65.2	67.7	35.1
85°	34.3	34.3	34.3	35.1	34.3	36.0	36.9	38.6	38.6	36.9	21.4
87.5°	22.3	21.4	22.3	21.4	21.4	20.5	20.5	20.5	19.7	18.8	12.0
90°	15.1	15.1	15.1	15.1	15.1	20.1	26.8	30.1	25.8	17.4	11.1
92.5°	60.2	48.3	60.2	72.2	75.2	106.7	148.6	169.5	148.8	107.4	76.4
95°	210.2	173.9	210.2	246.5	255.5	335.5	442.3	495.6	418.6	264.5	148.9
97.5°	503.6	434.6	503.6	572.6	589.9	640.5	707.9	741.7	613.2	356.3	163.6
100°	725.6	643.3	725.6	807.9	828.4	824.7	819.8	817.3	674.8	389.7	175.9
102.5°	944.0	873.6	944.0	1014.4	1032.0	967.6	881.6	838.7	694.1	405.0	188.2
105°	1222.4	1184.5	1222.4	1260.3	1269.7	1125.2	932.6	836.3	696.3	416.4	206.4
107.5°	1404.8	1413.9	1404.8	1395.7	1393.4	1191.9	923.1	788.8	665.3	418.5	233.4
110°	1474.3	1513.7	1474.3	1434.9	1425.1	1199.8	899.4	749.2	637.9	415.3	248.4





TEST NUMBER: P934671

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1480.5	1541.1	1480.5	1419.9	1404.8	1174.2	866.8	713.1	613.9	415.4	266.6
115°	1441.2	1525.3	1441.2	1357.2	1336.3	1114.2	818.0	669.9	586.3	419.3	293.9
117.5°	1358.0	1451.1	1358.0	1264.9	1241.6	1041.1	773.9	640.2	569.1	427.1	320.5
120°	1291.0	1381.4	1291.0	1200.5	1177.8	994.6	750.4	628.4	563.3	433.4	335.9
122.5°	1225.6	1314.9	1225.6	1136.3	1114.0	949.0	729.1	619.2	560.4	442.5	354.2
125°	1132.5	1214.7	1132.5	1050.2	1029.6	889.6	702.7	609.4	557.8	454.8	377.5
127.5°	1048.6	1118.0	1048.6	979.3	961.9	841.6	681.2	601.0	556.4	467.1	400.1
130°	999.2	1063.3	999.2	935.2	919.1	812.0	669.2	597.8	557.3	476.1	415.2
132.5°	954.4	1011.8	954.4	897.0	882.7	786.8	658.9	595.0	557.8	483.3	427.4
135°	893.0	942.5	893.0	843.5	831.1	750.9	643.8	590.3	557.3	491.3	441.8
137.5°	843.7	884.3	843.7	803.3	793.1	725.2	634.7	589.5	560.7	503.1	459.9
140°	810.0	847.8	810.0	772.1	762.6	704.0	625.8	586.7	561.3	510.4	472.3
142.5°	782.0	814.5	782.0	749.4	741.2	689.7	621.0	586.7	563.3	516.5	481.4
145°	740.0	764.6	740.0	715.3	709.1	667.0	610.9	582.8	563.3	524.4	495.2
147.5°	707.7	728.1	707.7	687.3	682.2	649.1	604.8	582.8	567.2	536.0	512.6
150°	687.5	704.0	687.5	670.9	666.8	638.7	601.4	582.8	569.2	542.1	521.8
152.5°	670.1	682.6	670.1	657.7	654.5	630.6	598.7	582.8	570.5	546.0	527.7
155°	650.2	658.4	650.2	641.9	639.9	620.9	595.5	582.8	573.4	554.7	540.8
157.5°	634.4	640.2	634.4	628.6	627.2	612.3	592.7	582.8	576.4	563.5	553.9
160°	624.9	628.4	624.9	621.6	620.8	608.1	591.2	582.8	577.7	567.4	559.8
162.5°	618.8	622.0	618.8	615.7	614.9	604.2	589.9	582.8	579.1	571.7	566.2
165°	609.9	613.3	609.9	606.6	605.8	598.1	587.9	582.8	581.1	577.7	575.3
167.5°	603.6	604.9	603.6	602.1	601.8	596.7	590.0	586.7	585.3	582.5	580.4
170°	601.8	601.8	601.8	601.8	601.8	596.7	590.0	586.7	586.6	586.4	586.3
172.5°	597.1	595.8	597.1	598.3	598.6	594.6	589.3	586.7	586.7	586.7	586.7
175°	594.3	594.3	594.3	594.3	594.3	591.7	588.4	586.7	587.5	589.1	590.3
177.5°	591.7	590.3	591.7	593.2	593.5	591.5	588.9	587.5	588.1	589.3	590.3
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



TEST NUMBER: P934671

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	918.8	913.7	913.7	905.1	901.7	899.1	894.8	882.0	878.5	875.1	880.2
5°	926.6	917.1	910.2	894.8	882.0	876.8	860.5	829.7	809.1	793.6	785.1
7.5°	928.3	916.2	903.4	879.3	848.5	834.8	785.1	728.5	713.1	699.4	690.8
10°	926.6	912.8	894.8	858.8	786.0	761.9	712.3	675.4	665.9	663.4	665.9
12.5°	920.5	907.6	882.8	822.8	720.8	704.5	675.4	654.0	652.2	656.6	679.6
15°	910.2	898.3	869.1	774.8	684.8	672.8	652.2	644.5	654.0	684.0	753.4
17.5°	900.0	886.3	850.2	727.7	657.4	648.8	634.2	649.6	702.8	743.1	766.2
20°	886.3	870.0	828.8	693.4	637.6	630.0	623.1	692.5	732.8	747.4	760.2
22.5°	870.0	852.8	799.7	669.4	617.1	611.1	615.4	716.5	732.8	743.1	754.3
25°	848.5	833.9	765.4	650.5	600.8	593.9	610.3	714.0	723.3	726.0	748.2
27.5°	828.8	809.9	729.4	633.4	581.1	578.5	614.5	702.8	709.7	712.3	736.2
30°	804.8	776.5	689.1	615.4	560.5	559.7	615.4	689.1	687.4	694.2	718.2
32.5°	779.9	726.8	643.7	593.1	540.8	540.0	609.4	668.6	666.9	676.2	694.2
35°	756.8	688.2	582.0	567.4	516.0	516.8	594.8	644.5	645.4	654.0	665.1
37.5°	732.8	654.8	514.3	539.1	491.9	491.9	575.1	622.2	620.5	623.1	638.6
40°	704.5	602.5	454.3	502.3	469.7	467.2	551.1	598.3	592.2	591.4	612.8
42.5°	674.5	545.1	409.7	453.4	444.0	440.6	521.9	569.1	558.0	560.5	588.0
45°	642.0	529.7	375.4	383.1	417.4	414.8	490.2	535.7	528.0	534.8	563.1
47.5°	609.4	498.8	364.2	318.0	389.1	388.3	455.1	503.1	498.8	505.7	535.7
50°	564.8	464.5	363.4	272.6	357.4	360.8	413.1	471.4	471.4	477.4	509.2
52.5°	507.4	422.5	330.0	246.8	320.5	330.8	376.2	444.0	445.7	451.7	479.9
55°	455.1	378.8	306.0	227.1	276.8	299.1	340.3	415.7	419.1	425.1	450.8
57.5°	407.1	315.4	300.8	204.0	236.6	258.0	308.6	388.3	390.0	395.2	420.0
60°	355.7	228.0	276.0	179.1	201.4	217.7	279.4	355.7	361.7	365.1	386.6
62.5°	297.4	165.5	250.2	162.0	184.3	187.7	255.4	324.9	332.5	335.1	348.0
65°	211.7	138.9	212.6	147.4	166.3	167.2	229.7	293.1	300.0	304.2	313.7
67.5°	143.1	113.1	162.0	133.7	152.6	153.4	204.8	256.3	265.7	269.1	275.1
70°	99.4	75.4	120.0	119.1	137.2	138.9	178.2	222.9	231.4	234.0	237.5
72.5°	72.8	60.8	99.4	107.1	120.8	122.6	150.9	185.1	193.7	196.3	198.0
75°	55.7	64.2	80.6	93.5	102.8	103.7	123.5	150.9	156.9	158.6	159.4
77.5°	44.6	60.0	59.1	75.4	84.0	82.3	96.9	116.6	121.7	121.7	121.7
80°	33.4	47.1	44.6	54.0	61.7	60.0	69.4	83.2	84.9	86.6	85.7
82.5°	24.9	30.0	30.0	34.3	41.2	39.4	46.3	54.0	54.0	54.0	55.7
85°	15.4	17.1	13.7	18.0	23.2	22.3	25.7	29.1	30.0	30.0	28.3
87.5°	9.5	7.8	4.3	6.8	10.3	10.3	12.0	12.9	12.0	12.0	12.0
90°	10.3	7.1	3.9	7.1	10.3	11.1	17.4	25.8	30.1	26.8	20.1
92.5°	69.7	42.8	15.8	42.8	69.7	76.4	107.4	148.8	169.5	148.6	106.7
95°	136.6	87.3	38.0	87.3	136.6	148.9	264.5	418.6	495.6	442.3	335.5
97.5°	152.7	109.2	65.8	109.2	152.7	163.6	356.3	613.2	741.7	707.9	640.5
100°	166.1	126.6	87.2	126.6	166.1	175.9	389.7	674.8	817.3	819.8	824.7
102.5°	179.0	142.2	105.4	142.2	179.0	188.2	405.0	694.1	838.7	881.6	967.6
105°	198.7	167.5	136.3	167.5	198.7	206.4	416.4	696.3	836.3	932.6	1125.2
107.5°	226.1	197.1	168.0	197.1	226.1	233.4	418.5	665.3	788.8	923.1	1191.9
110°	241.8	215.6	189.4	215.6	241.8	248.4	415.3	637.9	749.2	899.4	1199.8



TEST NUMBER: P934671

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	260.4	235.3	210.4	235.3	260.4	266.6	415.4	613.9	713.1	866.8	1174.2
115°	288.1	265.1	242.1	265.1	288.1	293.9	419.3	586.3	669.9	818.0	1114.2
117.5°	315.2	294.3	273.3	294.3	315.2	320.5	427.1	569.1	640.2	773.9	1041.1
120°	331.0	311.3	291.6	311.3	331.0	335.9	433.4	563.3	628.4	750.4	994.6
122.5°	349.2	329.3	309.4	329.3	349.2	354.2	442.5	560.4	619.2	729.1	949.0
125°	373.0	354.9	336.7	354.9	373.0	377.5	454.8	557.8	609.4	702.7	889.6
127.5°	395.5	377.3	358.9	377.3	395.5	400.1	467.1	556.4	601.0	681.2	841.6
130°	410.2	390.6	370.8	390.6	410.2	415.2	476.1	557.3	597.8	669.2	812.0
132.5°	422.5	402.8	383.1	402.8	422.5	427.4	483.3	557.8	595.0	658.9	786.8
135°	437.2	419.3	401.3	419.3	437.2	441.8	491.3	557.3	590.3	643.8	750.9
137.5°	455.5	437.7	420.0	437.7	455.5	459.9	503.1	560.7	589.5	634.7	725.2
140°	468.2	451.7	435.4	451.7	468.2	472.3	510.4	561.3	586.7	625.8	704.0
142.5°	477.6	462.5	447.3	462.5	477.6	481.4	516.5	563.3	586.7	621.0	689.7
145°	491.9	478.7	465.5	478.7	491.9	495.2	524.4	563.3	582.8	610.9	667.0
147.5°	509.4	496.5	483.7	496.5	509.4	512.6	536.0	567.2	582.8	604.8	649.1
150°	518.9	507.2	495.6	507.2	518.9	521.8	542.1	569.2	582.8	601.4	638.7
152.5°	525.5	516.7	507.9	516.7	525.5	527.7	546.0	570.5	582.8	598.7	630.6
155°	539.1	532.6	526.1	532.6	539.1	540.8	554.7	573.4	582.8	595.5	620.9
157.5°	552.3	546.0	539.6	546.0	552.3	553.9	563.5	576.4	582.8	592.7	612.3
160°	558.6	553.6	548.7	553.6	558.6	559.8	567.4	577.7	582.8	591.2	608.1
162.5°	565.2	561.6	557.8	561.6	565.2	566.2	571.7	579.1	582.8	589.9	604.2
165°	574.4	571.1	567.7	571.1	574.4	575.3	577.7	581.1	582.8	587.9	598.1
167.5°	580.0	578.4	576.8	578.4	580.0	580.4	582.5	585.3	586.7	590.0	596.7
170°	585.9	584.4	582.8	584.4	585.9	586.3	586.4	586.6	586.7	590.0	596.7
172.5°	586.6	586.3	585.9	586.3	586.6	586.7	586.7	586.7	586.7	589.3	594.6
175°	590.3	590.3	590.3	590.3	590.3	590.3	589.1	587.5	586.7	588.4	591.7
177.5°	590.3	590.3	590.3	590.3	590.3	590.3	589.3	588.1	587.5	588.9	591.5
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



TEST NUMBER: P934671  
 CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	874.2	871.7	875.1	865.6	875.1	871.7	874.2	880.2	875.1	878.5	882.0
5°	767.1	762.8	749.1	737.9	749.1	762.8	767.1	785.1	793.6	809.1	829.7
7.5°	685.7	682.3	678.8	672.0	678.8	682.3	685.7	690.8	699.4	713.1	728.5
10°	667.7	668.6	673.7	672.8	673.7	668.6	667.7	665.9	663.4	665.9	675.4
12.5°	714.0	721.6	749.9	748.2	749.9	721.6	714.0	679.6	656.6	652.2	654.0
15°	767.1	769.7	775.7	776.5	775.7	769.7	767.1	753.4	684.0	654.0	644.5
17.5°	772.3	773.1	777.4	777.4	777.4	773.1	772.3	766.2	743.1	702.8	649.6
20°	768.0	769.7	778.2	779.9	778.2	769.7	768.0	760.2	747.4	732.8	692.5
22.5°	766.2	769.7	776.5	775.7	776.5	769.7	766.2	754.3	743.1	732.8	716.5
25°	757.7	757.7	758.5	759.4	758.5	757.7	757.7	748.2	726.0	723.3	714.0
27.5°	739.7	741.4	746.5	745.7	746.5	741.4	739.7	736.2	712.3	709.7	702.8
30°	723.3	721.6	717.4	714.0	717.4	721.6	723.3	718.2	694.2	687.4	689.1
32.5°	696.0	691.7	687.4	684.8	687.4	691.7	696.0	694.2	676.2	666.9	668.6
35°	663.4	664.2	663.4	660.8	663.4	664.2	663.4	665.1	654.0	645.4	644.5
37.5°	640.3	642.0	641.1	637.6	641.1	642.0	640.3	638.6	623.1	620.5	622.2
40°	616.3	617.1	616.3	613.7	616.3	617.1	616.3	612.8	591.4	592.2	598.3
42.5°	593.1	592.2	589.7	588.0	589.7	592.2	593.1	588.0	560.5	558.0	569.1
45°	566.6	567.4	562.2	559.7	562.2	567.4	566.6	563.1	534.8	528.0	535.7
47.5°	540.0	540.0	535.7	533.1	535.7	540.0	540.0	535.7	505.7	498.8	503.1
50°	511.7	510.9	504.8	504.0	504.8	510.9	511.7	509.2	477.4	471.4	471.4
52.5°	479.1	479.1	479.9	481.7	479.9	479.1	479.1	479.9	451.7	445.7	444.0
55°	450.8	451.7	457.7	459.4	457.7	451.7	450.8	450.8	425.1	419.1	415.7
57.5°	421.7	421.7	426.0	426.0	426.0	421.7	421.7	420.0	395.2	390.0	388.3
60°	388.3	390.0	393.4	392.5	393.4	390.0	388.3	386.6	365.1	361.7	355.7
62.5°	353.2	354.9	355.7	354.0	355.7	354.9	353.2	348.0	335.1	332.5	324.9
65°	316.3	318.0	318.8	317.1	318.8	318.0	316.3	313.7	304.2	300.0	293.1
67.5°	278.5	277.7	276.8	280.3	276.8	277.7	278.5	275.1	269.1	265.7	256.3
70°	240.0	240.0	239.2	240.9	239.2	240.0	240.0	237.5	234.0	231.4	222.9
72.5°	198.9	198.0	201.4	198.9	201.4	198.0	198.9	198.0	196.3	193.7	185.1
75°	158.6	160.3	158.6	161.1	158.6	160.3	158.6	159.4	158.6	156.9	150.9
77.5°	120.8	122.6	120.8	120.8	120.8	122.6	120.8	121.7	121.7	121.7	116.6
80°	85.7	84.9	84.9	84.0	84.9	84.9	85.7	85.7	86.6	84.9	83.2
82.5°	54.9	54.0	54.0	55.7	54.0	54.0	54.9	55.7	54.0	54.0	54.0
85°	30.0	30.8	29.1	29.1	29.1	30.8	30.0	28.3	30.0	30.0	29.1
87.5°	11.2	10.3	10.3	10.3	10.3	10.3	11.2	12.0	12.0	12.0	12.9
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.1	26.8	30.1	25.8
92.5°	75.2	72.2	60.2	48.3	60.2	72.2	75.2	106.7	148.6	169.5	148.8
95°	255.5	246.5	210.2	173.9	210.2	246.5	255.5	335.5	442.3	495.6	418.6
97.5°	589.9	572.6	503.6	434.6	503.6	572.6	589.9	640.5	707.9	741.7	613.2
100°	828.4	807.9	725.6	643.3	725.6	807.9	828.4	824.7	819.8	817.3	674.8
102.5°	1032.0	1014.4	944.0	873.6	944.0	1014.4	1032.0	967.6	881.6	838.7	694.1
105°	1269.7	1260.3	1222.4	1184.5	1222.4	1260.3	1269.7	1125.2	932.6	836.3	696.3
107.5°	1393.4	1395.7	1404.8	1413.9	1404.8	1395.7	1393.4	1191.9	923.1	788.8	665.3
110°	1425.1	1434.9	1474.3	1513.7	1474.3	1434.9	1425.1	1199.8	899.4	749.2	637.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1404.8	1419.9	1480.5	1541.1	1480.5	1419.9	1404.8	1174.2	866.8	713.1	613.9
115°	1336.3	1357.2	1441.2	1525.3	1441.2	1357.2	1336.3	1114.2	818.0	669.9	586.3
117.5°	1241.6	1264.9	1358.0	1451.1	1358.0	1264.9	1241.6	1041.1	773.9	640.2	569.1
120°	1177.8	1200.5	1291.0	1381.4	1291.0	1200.5	1177.8	994.6	750.4	628.4	563.3
122.5°	1114.0	1136.3	1225.6	1314.9	1225.6	1136.3	1114.0	949.0	729.1	619.2	560.4
125°	1029.6	1050.2	1132.5	1214.7	1132.5	1050.2	1029.6	889.6	702.7	609.4	557.8
127.5°	961.9	979.3	1048.6	1118.0	1048.6	979.3	961.9	841.6	681.2	601.0	556.4
130°	919.1	935.2	999.2	1063.3	999.2	935.2	919.1	812.0	669.2	597.8	557.3
132.5°	882.7	897.0	954.4	1011.8	954.4	897.0	882.7	786.8	658.9	595.0	557.8
135°	831.1	843.5	893.0	942.5	893.0	843.5	831.1	750.9	643.8	590.3	557.3
137.5°	793.1	803.3	843.7	884.3	843.7	803.3	793.1	725.2	634.7	589.5	560.7
140°	762.6	772.1	810.0	847.8	810.0	772.1	762.6	704.0	625.8	586.7	561.3
142.5°	741.2	749.4	782.0	814.5	782.0	749.4	741.2	689.7	621.0	586.7	563.3
145°	709.1	715.3	740.0	764.6	740.0	715.3	709.1	667.0	610.9	582.8	563.3
147.5°	682.2	687.3	707.7	728.1	707.7	687.3	682.2	649.1	604.8	582.8	567.2
150°	666.8	670.9	687.5	704.0	687.5	670.9	666.8	638.7	601.4	582.8	569.2
152.5°	654.5	657.7	670.1	682.6	670.1	657.7	654.5	630.6	598.7	582.8	570.5
155°	639.9	641.9	650.2	658.4	650.2	641.9	639.9	620.9	595.5	582.8	573.4
157.5°	627.2	628.6	634.4	640.2	634.4	628.6	627.2	612.3	592.7	582.8	576.4
160°	620.8	621.6	624.9	628.4	624.9	621.6	620.8	608.1	591.2	582.8	577.7
162.5°	614.9	615.7	618.8	622.0	618.8	615.7	614.9	604.2	589.9	582.8	579.1
165°	605.8	606.6	609.9	613.3	609.9	606.6	605.8	598.1	587.9	582.8	581.1
167.5°	601.8	602.1	603.6	604.9	603.6	602.1	601.8	596.7	590.0	586.7	585.3
170°	601.8	601.8	601.8	601.8	601.8	601.8	601.8	596.7	590.0	586.7	586.6
172.5°	598.6	598.3	597.1	595.8	597.1	598.3	598.6	594.6	589.3	586.7	586.7
175°	594.3	594.3	594.3	594.3	594.3	594.3	594.3	591.7	588.4	586.7	587.5
177.5°	593.5	593.2	591.7	590.3	591.7	593.2	593.5	591.5	588.9	587.5	588.1
180°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	905.9	905.9	905.9	905.9	905.9
2.5°	894.8	899.1	901.7	905.1	913.7
5°	860.5	876.8	882.0	894.8	910.2
7.5°	785.1	834.8	848.5	879.3	903.4
10°	712.3	761.9	786.0	858.8	894.8
12.5°	675.4	704.5	720.8	822.8	882.8
15°	652.2	672.8	684.8	774.8	869.1
17.5°	634.2	648.8	657.4	727.7	850.2
20°	623.1	630.0	637.6	693.4	828.8
22.5°	615.4	611.1	617.1	669.4	799.7
25°	610.3	593.9	600.8	650.5	765.4
27.5°	614.5	578.5	581.1	633.4	729.4
30°	615.4	559.7	560.5	615.4	689.1
32.5°	609.4	540.0	540.8	593.1	643.7
35°	594.8	516.8	516.0	567.4	582.0
37.5°	575.1	491.9	491.9	539.1	514.3
40°	551.1	467.2	469.7	502.3	454.3
42.5°	521.9	440.6	444.0	453.4	409.7
45°	490.2	414.8	417.4	383.1	375.4
47.5°	455.1	388.3	389.1	318.0	364.2
50°	413.1	360.8	357.4	272.6	363.4
52.5°	376.2	330.8	320.5	246.8	330.0
55°	340.3	299.1	276.8	227.1	306.0
57.5°	308.6	258.0	236.6	204.0	300.8
60°	279.4	217.7	201.4	179.1	276.0
62.5°	255.4	187.7	184.3	162.0	250.2
65°	229.7	167.2	166.3	147.4	212.6
67.5°	204.8	153.4	152.6	133.7	162.0
70°	178.2	138.9	137.2	119.1	120.0
72.5°	150.9	122.6	120.8	107.1	99.4
75°	123.5	103.7	102.8	93.5	80.6
77.5°	96.9	82.3	84.0	75.4	59.1
80°	69.4	60.0	61.7	54.0	44.6
82.5°	46.3	39.4	41.2	34.3	30.0
85°	25.7	22.3	23.2	18.0	13.7
87.5°	12.0	10.3	10.3	6.8	4.3
90°	17.4	11.1	10.3	7.1	3.9
92.5°	107.4	76.4	69.7	42.8	15.8
95°	264.5	148.9	136.6	87.3	38.0
97.5°	356.3	163.6	152.7	109.2	65.8
100°	389.7	175.9	166.1	126.6	87.2
102.5°	405.0	188.2	179.0	142.2	105.4
105°	416.4	206.4	198.7	167.5	136.3
107.5°	418.5	233.4	226.1	197.1	168.0
110°	415.3	248.4	241.8	215.6	189.4



TEST NUMBER: P934671

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	415.4	266.6	260.4	235.3	210.4
115°	419.3	293.9	288.1	265.1	242.1
117.5°	427.1	320.5	315.2	294.3	273.3
120°	433.4	335.9	331.0	311.3	291.6
122.5°	442.5	354.2	349.2	329.3	309.4
125°	454.8	377.5	373.0	354.9	336.7
127.5°	467.1	400.1	395.5	377.3	358.9
130°	476.1	415.2	410.2	390.6	370.8
132.5°	483.3	427.4	422.5	402.8	383.1
135°	491.3	441.8	437.2	419.3	401.3
137.5°	503.1	459.9	455.5	437.7	420.0
140°	510.4	472.3	468.2	451.7	435.4
142.5°	516.5	481.4	477.6	462.5	447.3
145°	524.4	495.2	491.9	478.7	465.5
147.5°	536.0	512.6	509.4	496.5	483.7
150°	542.1	521.8	518.9	507.2	495.6
152.5°	546.0	527.7	525.5	516.7	507.9
155°	554.7	540.8	539.1	532.6	526.1
157.5°	563.5	553.9	552.3	546.0	539.6
160°	567.4	559.8	558.6	553.6	548.7
162.5°	571.7	566.2	565.2	561.6	557.8
165°	577.7	575.3	574.4	571.1	567.7
167.5°	582.5	580.4	580.0	578.4	576.8
170°	586.4	586.3	585.9	584.4	582.8
172.5°	586.7	586.7	586.6	586.3	585.9
175°	589.1	590.3	590.3	590.3	590.3
177.5°	589.3	590.3	590.3	590.3	590.3
180°	590.3	590.3	590.3	590.3	590.3



TEST NUMBER: P934671  
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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	9.57	10.34	10.63	11.40	12.83	12.40	13.16	13.45	14.22	15.65
	3H	10.04	10.73	11.11	11.79	13.24	13.74	14.42	14.80	15.49	16.94
	4H	10.23	10.88	11.30	11.95	13.40	14.17	14.82	15.25	15.89	17.35
	6H	10.34	10.94	11.43	12.01	13.48	14.45	15.05	15.54	16.12	17.59
	8H	10.34	10.91	11.43	12.00	13.46	14.52	15.09	15.61	16.18	17.64
	12H	10.31	10.85	11.40	11.93	13.42	14.56	15.10	15.65	16.18	17.67
4H	2H	10.59	11.24	11.68	12.31	13.77	12.80	13.44	13.88	14.51	15.97
	3H	11.61	12.15	12.70	13.25	14.72	14.29	14.83	15.38	15.93	17.40
	4H	11.88	12.38	12.98	13.46	14.96	14.81	15.31	15.91	16.39	17.89
	6H	12.00	12.43	13.11	13.54	15.02	15.17	15.60	16.27	16.71	18.19
	8H	12.01	12.40	13.11	13.50	15.00	15.28	15.67	16.38	16.77	18.27
	12H	11.97	12.33	13.09	13.44	14.95	15.33	15.69	16.45	16.80	18.31
8H	4H	12.33	12.73	13.43	13.83	15.33	14.93	15.33	16.03	16.43	17.93
	6H	12.59	12.91	13.71	14.06	15.55	15.36	15.69	16.49	16.83	18.33
	8H	12.63	12.91	13.76	14.04	15.56	15.51	15.80	16.64	16.92	18.44
	12H	12.61	12.86	13.74	13.98	15.53	15.60	15.86	16.74	16.98	18.53
12H	4H	12.33	12.69	13.45	13.80	15.31	14.89	15.25	16.01	16.36	17.87
	6H	12.65	12.93	13.78	14.06	15.57	15.36	15.65	16.49	16.77	18.29
	8H	12.71	12.96	13.84	14.08	15.63	15.51	15.77	16.65	16.89	18.44