

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: P933871

Luminaire Tested: SQ4-FA-025U-050D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933871
REPORT IS A COMBINATION OF REPORTS P933675 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

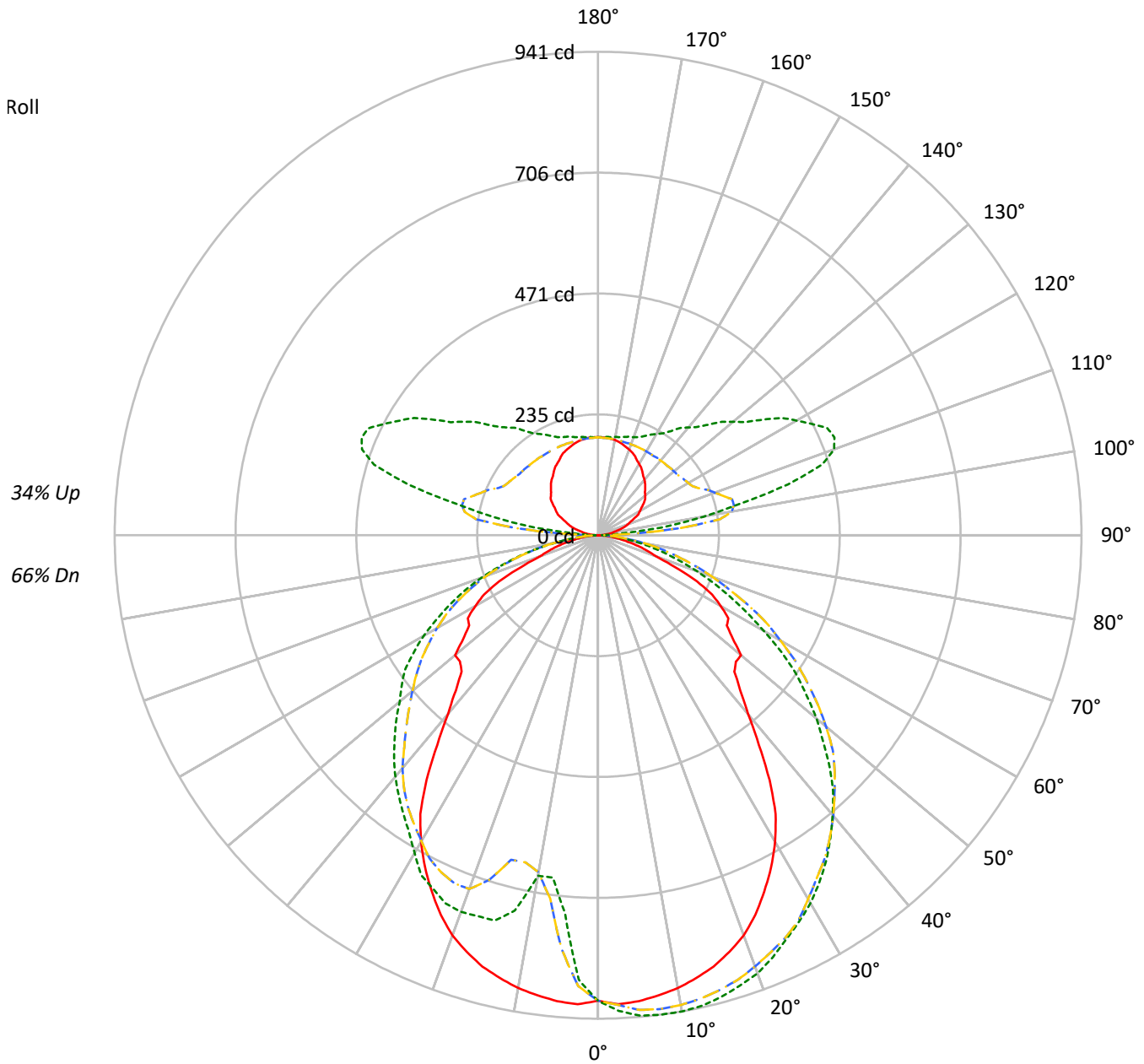
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3586.1 lumens
Efficiency: N/A
Efficacy: 108.7 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-Direct

Input Watts (W): 33
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: P933871
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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				
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	70	70	70	66
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	60	60	60	55
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	50	50	50	46
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	43	43	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	37	37	37	34
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	32	32	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	28	28	28	26
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	25	25	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	20	20	20	18
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	18	18	18	16

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	2.3
10°-20°	232.2	6.5
20°-30°	358.9	10.0
30°-40°	428.5	11.9
40°-50°	431.0	12.0
50°-60°	375.0	10.5
60°-70°	265.9	7.4
70°-80°	140.7	3.9
80°-90°	35.8	1.0
90°-100°	93.0	2.6
100°-110°	244.4	6.8
110°-120°	253.4	7.1
120°-130°	203.3	5.7
130°-140°	159.5	4.4
140°-150°	122.4	3.4
150°-160°	88.2	2.5
160°-170°	53.9	1.5
170°-180°	18.2	0.5
0°-30°	672.9	18.8
0°-40°	1101.4	30.7
0°-60°	1907.4	53.2
0°-90°	2349.7	65.5
90°-120°	590.8	16.5
90°-150°	1076.0	30.0
90°-180°	1236.0	34.5
0°-180°	3586.1	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°	1	5	1	5	1	2
95°	12	56	12	56	12	14
105°	44	383	44	383	44	47
115°	78	493	78	493	78	77
125°	109	392	109	392	109	97
135°	130	304	130	304	130	100
145°	150	247	150	247	150	94
155°	170	213	170	213	170	78
165°	183	198	183	198	183	52
175°	191	192	191	192	191	18
180°	191	191	191	191	191	



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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°	1.3	2.3	3.3	3.6	5.6	8.3	9.7	8.6	6.5	4.9	4.9
92.5°	5.1	13.8	22.5	24.7	34.8	48.1	54.8	48.0	34.4	24.3	23.3
95°	12.3	28.2	44.1	48.1	85.5	135.2	160.1	142.9	108.4	82.6	79.7
97.5°	21.2	35.3	49.3	52.8	115.1	198.1	239.6	228.7	207.0	190.6	185.1
100°	28.2	40.9	53.7	56.8	125.9	218.0	264.0	264.8	266.4	267.6	261.0
102.5°	34.1	46.0	57.9	60.8	130.9	224.2	270.9	284.8	312.6	333.5	327.8
105°	44.0	54.1	64.2	66.7	134.5	224.9	270.2	301.3	363.5	410.2	407.2
107.5°	54.3	63.6	73.0	75.4	135.2	215.0	254.8	298.3	385.1	450.2	451.0
110°	61.2	69.7	78.1	80.3	134.2	206.1	242.1	290.6	387.7	460.4	463.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	68.0	76.1	84.1	86.1	134.2	198.3	230.4	280.1	379.4	453.9	458.7
115°	78.2	85.7	93.1	95.0	135.5	189.4	216.4	264.3	360.0	431.7	438.5
117.5°	88.4	95.1	101.8	103.5	137.9	183.9	206.9	250.1	336.4	401.1	408.6
120°	94.2	100.6	106.9	108.5	140.1	182.1	203.0	242.5	321.4	380.6	387.9
122.5°	99.9	106.4	112.8	114.4	143.0	181.0	200.0	235.6	306.6	360.0	367.2
125°	108.8	114.7	120.6	122.0	147.0	180.3	196.9	227.1	287.5	332.7	339.4
127.5°	116.0	121.8	127.8	129.2	150.9	179.8	194.2	220.1	272.0	310.8	316.4
130°	119.8	126.2	132.5	134.1	153.8	180.0	193.1	216.2	262.3	296.9	302.1
132.5°	123.8	130.2	136.5	138.1	156.2	180.3	192.3	212.9	254.2	285.2	289.8
135°	129.7	135.5	141.3	142.7	158.7	180.1	190.8	208.1	242.6	268.6	272.6
137.5°	135.7	141.4	147.1	148.6	162.6	181.2	190.5	205.2	234.4	256.3	259.5
140°	140.7	145.9	151.2	152.6	164.9	181.4	189.6	202.2	227.5	246.4	249.5
142.5°	144.5	149.4	154.3	155.5	166.8	182.0	189.6	200.6	222.9	239.5	242.1
145°	150.4	154.6	158.9	160.0	169.5	182.0	188.3	197.3	215.5	229.1	231.1
147.5°	156.3	160.4	164.6	165.6	173.2	183.3	188.3	195.4	209.7	220.4	222.0
150°	160.1	163.8	167.7	168.6	175.2	183.9	188.3	194.3	206.4	215.4	216.7
152.5°	164.1	166.9	169.8	170.5	176.4	184.4	188.3	193.4	203.7	211.5	212.5
155°	170.0	172.1	174.2	174.7	179.3	185.3	188.3	192.4	200.6	206.7	207.4
157.5°	174.3	176.4	178.4	178.9	182.1	186.2	188.3	191.4	197.8	202.6	203.1
160°	177.3	178.9	180.5	180.9	183.4	186.7	188.3	191.0	196.5	200.6	200.8
162.5°	180.2	181.4	182.6	182.9	184.7	187.1	188.3	190.6	195.2	198.7	198.9
165°	183.4	184.5	185.6	185.8	186.7	187.8	188.3	189.9	193.2	195.7	196.0
167.5°	186.3	186.8	187.4	187.5	188.2	189.1	189.6	190.7	192.8	194.4	194.5
170°	188.3	188.8	189.3	189.4	189.5	189.6	189.6	190.7	192.8	194.4	194.4
172.5°	189.3	189.4	189.6	189.6	189.6	189.6	189.6	190.4	192.1	193.4	193.3
175°	190.8	190.8	190.8	190.8	190.3	189.8	189.6	190.1	191.2	192.0	192.0
177.5°	190.8	190.8	190.8	190.8	190.4	190.0	189.8	190.3	191.1	191.8	191.7
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



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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°	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.3	5.6	3.6
92.5°	19.4	15.6	19.4	23.3	24.3	34.4	48.0	54.8	48.1	34.8	24.7
95°	67.9	56.2	67.9	79.7	82.6	108.4	142.9	160.1	135.2	85.5	48.1
97.5°	162.7	140.4	162.7	185.1	190.6	207.0	228.7	239.6	198.1	115.1	52.8
100°	234.5	207.9	234.5	261.0	267.6	266.4	264.8	264.0	218.0	125.9	56.8
102.5°	305.0	282.3	305.0	327.8	333.5	312.6	284.8	270.9	224.2	130.9	60.8
105°	395.0	382.7	395.0	407.2	410.2	363.5	301.3	270.2	224.9	134.5	66.7
107.5°	453.9	456.8	453.9	451.0	450.2	385.1	298.3	254.8	215.0	135.2	75.4
110°	476.4	489.1	476.4	463.6	460.4	387.7	290.6	242.1	206.1	134.2	80.3



TEST NUMBER: P933871

CATALOG NUMBER: SQ4-FA-025U-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°	478.3	497.9	478.3	458.7	453.9	379.4	280.1	230.4	198.3	134.2	86.1
115°	465.6	492.8	465.6	438.5	431.7	360.0	264.3	216.4	189.4	135.5	95.0
117.5°	438.8	468.9	438.8	408.6	401.1	336.4	250.1	206.9	183.9	137.9	103.5
120°	417.1	446.4	417.1	387.9	380.6	321.4	242.5	203.0	182.1	140.1	108.5
122.5°	396.0	424.8	396.0	367.2	360.0	306.6	235.6	200.0	181.0	143.0	114.4
125°	365.8	392.4	365.8	339.4	332.7	287.5	227.1	196.9	180.3	147.0	122.0
127.5°	338.8	361.2	338.8	316.4	310.8	272.0	220.1	194.2	179.8	150.9	129.2
130°	322.8	343.5	322.8	302.1	296.9	262.3	216.2	193.1	180.0	153.8	134.1
132.5°	308.3	326.9	308.3	289.8	285.2	254.2	212.9	192.3	180.3	156.2	138.1
135°	288.5	304.5	288.5	272.6	268.6	242.6	208.1	190.8	180.1	158.7	142.7
137.5°	272.6	285.7	272.6	259.5	256.3	234.4	205.2	190.5	181.2	162.6	148.6
140°	261.6	273.9	261.6	249.5	246.4	227.5	202.2	189.6	181.4	164.9	152.6
142.5°	252.6	263.2	252.6	242.1	239.5	222.9	200.6	189.6	182.0	166.8	155.5
145°	239.1	247.1	239.1	231.1	229.1	215.5	197.3	188.3	182.0	169.5	160.0
147.5°	228.7	235.2	228.7	222.0	220.4	209.7	195.4	188.3	183.3	173.2	165.6
150°	222.1	227.5	222.1	216.7	215.4	206.4	194.3	188.3	183.9	175.2	168.6
152.5°	216.5	220.6	216.5	212.5	211.5	203.7	193.4	188.3	184.4	176.4	170.5
155°	210.0	212.7	210.0	207.4	206.7	200.6	192.4	188.3	185.3	179.3	174.7
157.5°	205.0	206.9	205.0	203.1	202.6	197.8	191.4	188.3	186.2	182.1	178.9
160°	201.9	203.0	201.9	200.8	200.6	196.5	191.0	188.3	186.7	183.4	180.9
162.5°	200.0	201.0	200.0	198.9	198.7	195.2	190.6	188.3	187.1	184.7	182.9
165°	197.1	198.2	197.1	196.0	195.7	193.2	189.9	188.3	187.8	186.7	185.8
167.5°	195.0	195.4	195.0	194.5	194.4	192.8	190.7	189.6	189.1	188.2	187.5
170°	194.4	194.4	194.4	194.4	194.4	192.8	190.7	189.6	189.6	189.5	189.4
172.5°	192.9	192.6	192.9	193.3	193.4	192.1	190.4	189.6	189.6	189.6	189.6
175°	192.0	192.0	192.0	192.0	192.0	191.2	190.1	189.6	189.8	190.3	190.8
177.5°	191.2	190.8	191.2	191.7	191.8	191.1	190.3	189.8	190.0	190.4	190.8
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



TEST NUMBER: P933871

CATALOG NUMBER: SQ4-FA-025U-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°	3.3	2.3	1.3	2.3	3.3	3.6	5.6	8.3	9.7	8.6	6.5
92.5°	22.5	13.8	5.1	13.8	22.5	24.7	34.8	48.1	54.8	48.0	34.4
95°	44.1	28.2	12.3	28.2	44.1	48.1	85.5	135.2	160.1	142.9	108.4
97.5°	49.3	35.3	21.2	35.3	49.3	52.8	115.1	198.1	239.6	228.7	207.0
100°	53.7	40.9	28.2	40.9	53.7	56.8	125.9	218.0	264.0	264.8	266.4
102.5°	57.9	46.0	34.1	46.0	57.9	60.8	130.9	224.2	270.9	284.8	312.6
105°	64.2	54.1	44.0	54.1	64.2	66.7	134.5	224.9	270.2	301.3	363.5
107.5°	73.0	63.6	54.3	63.6	73.0	75.4	135.2	215.0	254.8	298.3	385.1
110°	78.1	69.7	61.2	69.7	78.1	80.3	134.2	206.1	242.1	290.6	387.7



TEST NUMBER: P933871

CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	84.1	76.1	68.0	76.1	84.1	86.1	134.2	198.3	230.4	280.1	379.4
115°	93.1	85.7	78.2	85.7	93.1	95.0	135.5	189.4	216.4	264.3	360.0
117.5°	101.8	95.1	88.4	95.1	101.8	103.5	137.9	183.9	206.9	250.1	336.4
120°	106.9	100.6	94.2	100.6	106.9	108.5	140.1	182.1	203.0	242.5	321.4
122.5°	112.8	106.4	99.9	106.4	112.8	114.4	143.0	181.0	200.0	235.6	306.6
125°	120.6	114.7	108.8	114.7	120.6	122.0	147.0	180.3	196.9	227.1	287.5
127.5°	127.8	121.8	116.0	121.8	127.8	129.2	150.9	179.8	194.2	220.1	272.0
130°	132.5	126.2	119.8	126.2	132.5	134.1	153.8	180.0	193.1	216.2	262.3
132.5°	136.5	130.2	123.8	130.2	136.5	138.1	156.2	180.3	192.3	212.9	254.2
135°	141.3	135.5	129.7	135.5	141.3	142.7	158.7	180.1	190.8	208.1	242.6
137.5°	147.1	141.4	135.7	141.4	147.1	148.6	162.6	181.2	190.5	205.2	234.4
140°	151.2	145.9	140.7	145.9	151.2	152.6	164.9	181.4	189.6	202.2	227.5
142.5°	154.3	149.4	144.5	149.4	154.3	155.5	166.8	182.0	189.6	200.6	222.9
145°	158.9	154.6	150.4	154.6	158.9	160.0	169.5	182.0	188.3	197.3	215.5
147.5°	164.6	160.4	156.3	160.4	164.6	165.6	173.2	183.3	188.3	195.4	209.7
150°	167.7	163.8	160.1	163.8	167.7	168.6	175.2	183.9	188.3	194.3	206.4
152.5°	169.8	166.9	164.1	166.9	169.8	170.5	176.4	184.4	188.3	193.4	203.7
155°	174.2	172.1	170.0	172.1	174.2	174.7	179.3	185.3	188.3	192.4	200.6
157.5°	178.4	176.4	174.3	176.4	178.4	178.9	182.1	186.2	188.3	191.4	197.8
160°	180.5	178.9	177.3	178.9	180.5	180.9	183.4	186.7	188.3	191.0	196.5
162.5°	182.6	181.4	180.2	181.4	182.6	182.9	184.7	187.1	188.3	190.6	195.2
165°	185.6	184.5	183.4	184.5	185.6	185.8	186.7	187.8	188.3	189.9	193.2
167.5°	187.4	186.8	186.3	186.8	187.4	187.5	188.2	189.1	189.6	190.7	192.8
170°	189.3	188.8	188.3	188.8	189.3	189.4	189.5	189.6	189.6	190.7	192.8
172.5°	189.6	189.4	189.3	189.4	189.6	189.6	189.6	189.6	189.6	190.4	192.1
175°	190.8	190.8	190.8	190.8	190.8	190.8	190.3	189.8	189.6	190.1	191.2
177.5°	190.8	190.8	190.8	190.8	190.8	190.8	190.4	190.0	189.8	190.3	191.1
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



TEST NUMBER: P933871

CATALOG NUMBER: SQ4-FA-025U-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°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.3
92.5°	24.3	23.3	19.4	15.6	19.4	23.3	24.3	34.4	48.0	54.8	48.1
95°	82.6	79.7	67.9	56.2	67.9	79.7	82.6	108.4	142.9	160.1	135.2
97.5°	190.6	185.1	162.7	140.4	162.7	185.1	190.6	207.0	228.7	239.6	198.1
100°	267.6	261.0	234.5	207.9	234.5	261.0	267.6	266.4	264.8	264.0	218.0
102.5°	333.5	327.8	305.0	282.3	305.0	327.8	333.5	312.6	284.8	270.9	224.2
105°	410.2	407.2	395.0	382.7	395.0	407.2	410.2	363.5	301.3	270.2	224.9
107.5°	450.2	451.0	453.9	456.8	453.9	451.0	450.2	385.1	298.3	254.8	215.0
110°	460.4	463.6	476.4	489.1	476.4	463.6	460.4	387.7	290.6	242.1	206.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	453.9	458.7	478.3	497.9	478.3	458.7	453.9	379.4	280.1	230.4	198.3
115°	431.7	438.5	465.6	492.8	465.6	438.5	431.7	360.0	264.3	216.4	189.4
117.5°	401.1	408.6	438.8	468.9	438.8	408.6	401.1	336.4	250.1	206.9	183.9
120°	380.6	387.9	417.1	446.4	417.1	387.9	380.6	321.4	242.5	203.0	182.1
122.5°	360.0	367.2	396.0	424.8	396.0	367.2	360.0	306.6	235.6	200.0	181.0
125°	332.7	339.4	365.8	392.4	365.8	339.4	332.7	287.5	227.1	196.9	180.3
127.5°	310.8	316.4	338.8	361.2	338.8	316.4	310.8	272.0	220.1	194.2	179.8
130°	296.9	302.1	322.8	343.5	322.8	302.1	296.9	262.3	216.2	193.1	180.0
132.5°	285.2	289.8	308.3	326.9	308.3	289.8	285.2	254.2	212.9	192.3	180.3
135°	268.6	272.6	288.5	304.5	288.5	272.6	268.6	242.6	208.1	190.8	180.1
137.5°	256.3	259.5	272.6	285.7	272.6	259.5	256.3	234.4	205.2	190.5	181.2
140°	246.4	249.5	261.6	273.9	261.6	249.5	246.4	227.5	202.2	189.6	181.4
142.5°	239.5	242.1	252.6	263.2	252.6	242.1	239.5	222.9	200.6	189.6	182.0
145°	229.1	231.1	239.1	247.1	239.1	231.1	229.1	215.5	197.3	188.3	182.0
147.5°	220.4	222.0	228.7	235.2	228.7	222.0	220.4	209.7	195.4	188.3	183.3
150°	215.4	216.7	222.1	227.5	222.1	216.7	215.4	206.4	194.3	188.3	183.9
152.5°	211.5	212.5	216.5	220.6	216.5	212.5	211.5	203.7	193.4	188.3	184.4
155°	206.7	207.4	210.0	212.7	210.0	207.4	206.7	200.6	192.4	188.3	185.3
157.5°	202.6	203.1	205.0	206.9	205.0	203.1	202.6	197.8	191.4	188.3	186.2
160°	200.6	200.8	201.9	203.0	201.9	200.8	200.6	196.5	191.0	188.3	186.7
162.5°	198.7	198.9	200.0	201.0	200.0	198.9	198.7	195.2	190.6	188.3	187.1
165°	195.7	196.0	197.1	198.2	197.1	196.0	195.7	193.2	189.9	188.3	187.8
167.5°	194.4	194.5	195.0	195.4	195.0	194.5	194.4	192.8	190.7	189.6	189.1
170°	194.4	194.4	194.4	194.4	194.4	194.4	194.4	192.8	190.7	189.6	189.6
172.5°	193.4	193.3	192.9	192.6	192.9	193.3	193.4	192.1	190.4	189.6	189.6
175°	192.0	192.0	192.0	192.0	192.0	192.0	192.0	191.2	190.1	189.6	189.8
177.5°	191.8	191.7	191.2	190.8	191.2	191.7	191.8	191.1	190.3	189.8	190.0
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



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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°	5.6	3.6	3.3	2.3	1.3
92.5°	34.8	24.7	22.5	13.8	5.1
95°	85.5	48.1	44.1	28.2	12.3
97.5°	115.1	52.8	49.3	35.3	21.2
100°	125.9	56.8	53.7	40.9	28.2
102.5°	130.9	60.8	57.9	46.0	34.1
105°	134.5	66.7	64.2	54.1	44.0
107.5°	135.2	75.4	73.0	63.6	54.3
110°	134.2	80.3	78.1	69.7	61.2



TEST NUMBER: P933871

CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	134.2	86.1	84.1	76.1	68.0
115°	135.5	95.0	93.1	85.7	78.2
117.5°	137.9	103.5	101.8	95.1	88.4
120°	140.1	108.5	106.9	100.6	94.2
122.5°	143.0	114.4	112.8	106.4	99.9
125°	147.0	122.0	120.6	114.7	108.8
127.5°	150.9	129.2	127.8	121.8	116.0
130°	153.8	134.1	132.5	126.2	119.8
132.5°	156.2	138.1	136.5	130.2	123.8
135°	158.7	142.7	141.3	135.5	129.7
137.5°	162.6	148.6	147.1	141.4	135.7
140°	164.9	152.6	151.2	145.9	140.7
142.5°	166.8	155.5	154.3	149.4	144.5
145°	169.5	160.0	158.9	154.6	150.4
147.5°	173.2	165.6	164.6	160.4	156.3
150°	175.2	168.6	167.7	163.8	160.1
152.5°	176.4	170.5	169.8	166.9	164.1
155°	179.3	174.7	174.2	172.1	170.0
157.5°	182.1	178.9	178.4	176.4	174.3
160°	183.4	180.9	180.5	178.9	177.3
162.5°	184.7	182.9	182.6	181.4	180.2
165°	186.7	185.8	185.6	184.5	183.4
167.5°	188.2	187.5	187.4	186.8	186.3
170°	189.5	189.4	189.3	188.8	188.3
172.5°	189.6	189.6	189.6	189.4	189.3
175°	190.3	190.8	190.8	190.8	190.8
177.5°	190.4	190.8	190.8	190.8	190.8
180°	190.8	190.8	190.8	190.8	190.8



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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	12.11	13.13	12.92	13.97	15.00	14.94	15.96	15.75	16.79	17.82
	3H	12.60	13.52	13.43	14.36	15.42	16.29	17.21	17.12	18.05	19.11
	4H	12.80	13.66	13.64	14.52	15.59	16.74	17.61	17.58	18.46	19.53
	6H	12.93	13.72	13.78	14.58	15.67	17.03	17.83	17.89	18.69	19.77
	8H	12.93	13.69	13.80	14.57	15.65	17.11	17.87	17.98	18.75	19.83
	12H	12.91	13.63	13.78	14.50	15.61	17.16	17.88	18.02	18.75	19.86
4H	2H	13.16	14.03	14.01	14.88	15.95	15.37	16.23	16.21	17.08	18.15
	3H	14.20	14.93	15.06	15.81	16.89	16.88	17.61	17.74	18.49	19.57
	4H	14.49	15.14	15.36	16.02	17.14	17.42	18.07	18.29	18.96	20.07
	6H	14.62	15.19	15.51	16.09	17.21	17.79	18.36	18.68	19.26	20.38
	8H	14.63	15.16	15.52	16.06	17.19	17.90	18.43	18.79	19.33	20.46
	12H	14.61	15.08	15.51	16.00	17.14	17.96	18.44	18.87	19.36	20.49
8H	4H	14.95	15.48	15.84	16.38	17.51	17.56	18.08	18.44	18.98	20.11
	6H	15.22	15.66	16.14	16.60	17.73	18.00	18.44	18.91	19.38	20.51
	8H	15.27	15.65	16.19	16.59	17.73	18.15	18.54	19.08	19.47	20.62
	12H	15.26	15.60	16.19	16.52	17.72	18.25	18.60	19.18	19.52	20.72
12H	4H	14.97	15.44	15.88	16.36	17.50	17.53	18.00	18.44	18.92	20.06
	6H	15.28	15.67	16.21	16.61	17.75	18.00	18.38	18.92	19.32	20.46
	8H	15.36	15.70	16.29	16.63	17.82	18.16	18.51	19.09	19.43	20.63