

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: P933907

Luminaire Tested: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933907
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-B50-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

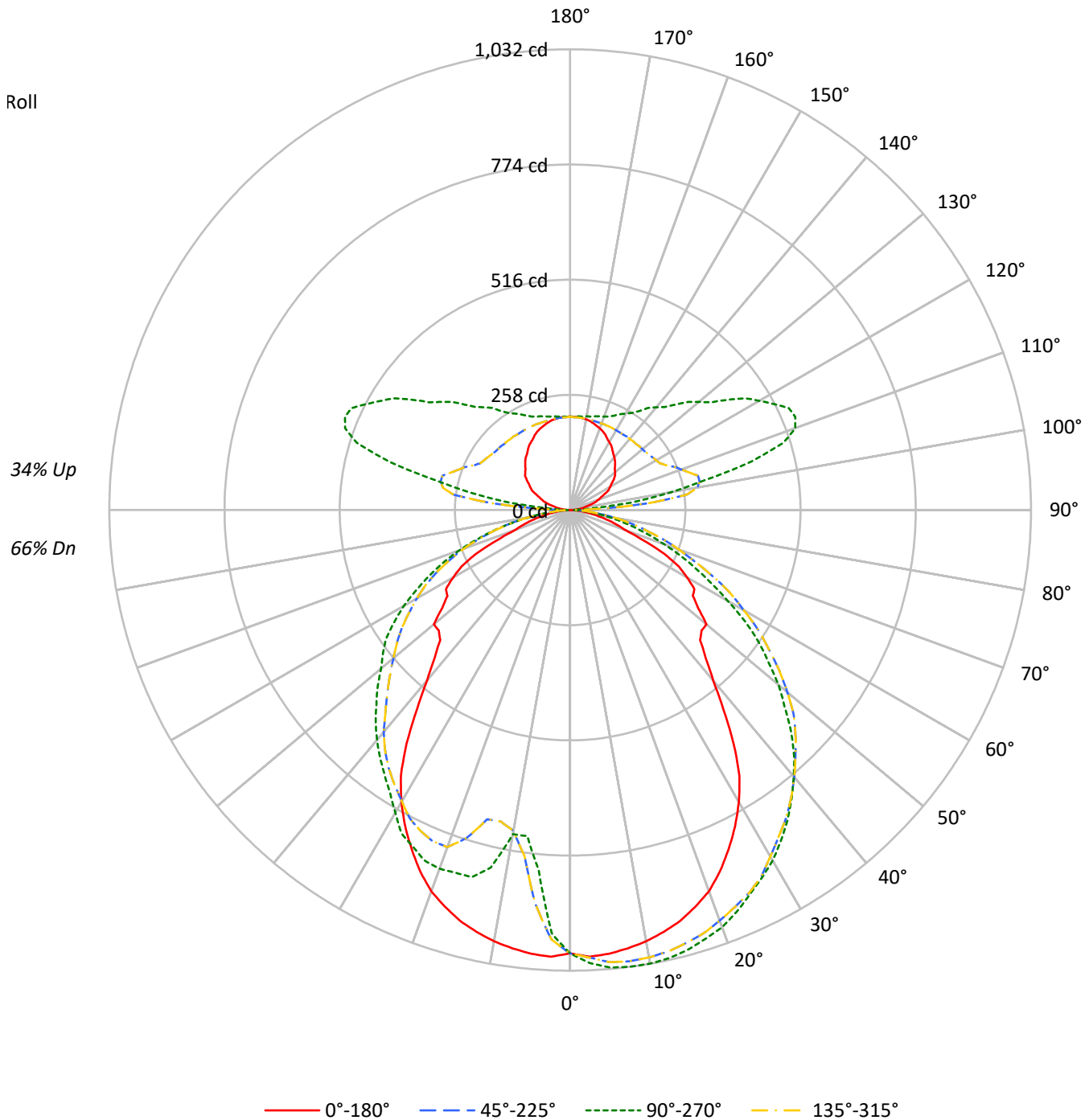
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3931.2 lumens
Efficiency: N/A
Efficacy: 119.1 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

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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6143	6143	6143	6143
5°	6187	6202	6187	4876
10°	6144	6109	6144	4368
15°	6075	5977	6075	4990
20°	5945	5820	5945	5001
25°	5683	5591	5683	4895
30°	5345	5401	5345	4663
35°	4763	5161	4763	4407
40°	3966	4879	3966	4214
45°	3541	4547	3541	3991
50°	3760	4153	3760	3769
55°	3533	3727	3533	3639
60°	3638	3166	3638	3333
65°	3293	2617	3293	2925
70°	2274	2085	2274	2452
75°	1989	1542	1989	1846
80°	1588	1018	1588	1110
85°	894	539	894	458

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5432 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	2.3
10°-20°	254.5	6.5
20°-30°	393.5	10.0
30°-40°	469.7	11.9
40°-50°	472.5	12.0
50°-60°	411.1	10.5
60°-70°	291.5	7.4
70°-80°	154.2	3.9
80°-90°	39.2	1.0
90°-100°	101.9	2.6
100°-110°	267.9	6.8
110°-120°	277.8	7.1
120°-130°	222.9	5.7
130°-140°	174.9	4.4
140°-150°	134.2	3.4
150°-160°	96.7	2.5
160°-170°	59.1	1.5
170°-180°	20.0	0.5
0°-30°	737.7	18.8
0°-40°	1207.4	30.7
0°-60°	2090.9	53.2
0°-90°	2575.8	65.5
90°-120°	647.6	16.5
90°-150°	1179.6	30.0
90°-180°	1355.0	34.5
0°-180°	3931.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	993	993	993	993	993	
5°	998	1029	998	809	998	95
15°	953	1020	953	851	953	268
25°	839	951	839	832	839	385
35°	638	848	638	724	638	395
45°	412	699	412	614	412	330
55°	335	516	335	504	335	308
65°	233	311	233	348	233	223
75°	88	148	88	177	88	93
85°	15	38	15	32	15	20
90°	1	5	1	5	1	2
95°	13	62	13	62	13	15
105°	48	420	48	420	48	51
115°	86	540	86	540	86	85
125°	119	430	119	430	119	106
135°	142	334	142	334	142	110
145°	165	271	165	271	165	103
155°	186	233	186	233	186	86
165°	201	217	201	217	201	57
175°	209	210	209	210	209	20
180°	209	209	209	209	209	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
2.5°	1001.6	1001.6	1007.2	1009.1	1009.1	1006.3	1003.5	1006.3	1014.8	1017.6	1016.7
5°	997.8	1005.4	1015.7	1017.6	1019.5	1018.5	1016.7	1018.5	1027.9	1029.8	1030.8
7.5°	990.3	1004.4	1017.6	1020.4	1023.2	1020.4	1019.5	1021.3	1030.8	1032.6	1032.6
10°	980.9	1000.7	1015.7	1017.6	1020.4	1017.6	1017.6	1021.3	1030.8	1032.6	1033.6
12.5°	967.8	995.0	1009.1	1011.0	1014.8	1013.9	1012.8	1016.7	1026.0	1027.9	1027.9
15°	952.8	984.7	997.8	999.8	1006.3	1004.4	1004.4	1008.2	1018.5	1021.3	1020.4
17.5°	932.0	971.5	986.6	989.4	994.1	993.1	994.1	997.8	1007.2	1009.1	1010.0
20°	908.6	953.7	971.5	974.3	979.0	979.0	979.0	983.8	993.1	996.9	996.9
22.5°	876.7	934.8	953.7	955.6	961.2	961.2	963.0	969.7	978.1	979.0	979.0
25°	839.0	914.2	930.2	935.9	941.5	944.3	947.1	950.9	953.7	952.8	953.7
27.5°	799.6	887.9	908.6	912.3	919.9	922.7	926.4	927.4	928.3	931.1	929.2
30°	755.4	851.2	882.3	886.0	898.2	900.1	896.4	898.2	902.9	904.9	906.7
32.5°	705.6	796.8	855.0	863.5	874.8	869.1	868.2	871.0	878.5	878.5	880.4
35°	638.0	754.5	829.7	837.1	845.6	839.0	842.8	843.8	848.4	851.2	850.3
37.5°	563.8	717.9	803.3	808.9	815.6	807.1	812.8	815.6	819.3	817.4	817.4
40°	498.0	660.5	772.3	776.1	781.8	775.1	780.8	782.7	784.6	782.7	781.8
42.5°	449.2	597.6	739.4	744.1	740.4	745.1	747.0	750.7	747.9	744.1	744.1
45°	411.5	580.7	703.8	709.4	703.8	711.2	714.0	714.0	705.6	703.8	702.8
47.5°	399.3	546.9	668.1	668.1	665.2	674.6	679.3	672.8	664.3	661.5	661.5
50°	398.4	509.2	619.1	615.4	628.6	639.9	635.1	628.6	622.0	611.7	611.7
52.5°	361.7	463.2	556.2	570.3	591.0	597.6	590.1	583.5	572.2	567.5	563.8
55°	335.4	415.3	498.9	527.1	548.7	557.1	543.1	536.5	519.6	516.8	514.9
57.5°	329.8	345.8	446.3	482.0	508.3	507.3	498.9	486.7	472.6	469.8	468.9
60°	302.5	249.9	389.9	432.3	459.4	456.6	449.2	437.9	424.7	422.8	421.0
62.5°	274.3	181.4	326.1	374.0	412.5	411.5	405.0	388.1	378.6	374.0	370.2
65°	233.0	152.2	232.1	311.0	366.4	368.3	354.3	342.0	331.7	326.1	325.1
67.5°	177.6	124.0	156.9	259.4	322.3	320.4	302.5	296.9	283.7	280.9	275.3
70°	131.5	82.7	109.0	210.4	279.1	274.3	260.3	253.7	241.4	234.9	231.2
72.5°	109.0	66.7	79.9	163.5	234.9	229.3	217.1	209.5	199.2	193.5	189.8
75°	88.4	70.4	61.1	121.2	190.7	187.0	175.7	168.2	159.7	152.2	153.2
77.5°	64.8	65.8	48.8	89.3	151.3	145.6	139.1	129.6	125.9	118.4	118.4
80°	48.8	51.7	36.6	61.1	109.0	109.0	103.4	96.8	90.2	86.5	86.5
82.5°	32.9	32.9	27.3	38.5	74.3	71.5	67.6	65.8	62.0	60.1	60.1
85°	15.0	18.8	16.9	23.4	40.4	42.3	42.3	40.4	39.5	37.5	38.5
87.5°	4.7	8.5	10.4	13.2	20.6	21.6	22.5	22.5	22.5	23.4	23.4
90°	1.4	2.5	3.6	3.9	6.2	9.2	10.6	9.4	7.1	5.3	5.3
92.5°	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.7	26.6	25.6
95°	13.4	30.9	48.4	52.8	93.7	148.2	175.5	156.6	118.8	90.5	87.3
97.5°	23.3	38.7	54.1	57.9	126.2	217.2	262.6	250.7	226.9	208.9	202.9
100°	30.9	44.8	58.8	62.3	138.0	239.0	289.4	290.3	292.1	293.4	286.1
102.5°	37.4	50.4	63.4	66.7	143.5	245.8	297.0	312.2	342.7	365.6	359.3
105°	48.3	59.3	70.3	73.1	147.5	246.6	296.2	330.3	398.5	449.7	446.4
107.5°	59.5	69.8	80.0	82.7	148.2	235.6	279.4	327.0	422.2	493.5	494.4
110°	67.1	76.4	85.6	88.0	147.1	225.9	265.3	318.6	425.0	504.7	508.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	74.5	83.4	92.2	94.4	147.1	217.4	252.6	307.0	415.9	497.5	502.9
115°	85.7	94.0	102.1	104.1	148.5	207.6	237.2	289.7	394.6	473.3	480.7
117.5°	96.9	104.2	111.6	113.5	151.2	201.6	226.8	274.1	368.7	439.7	447.9
120°	103.3	110.3	117.2	119.0	153.5	199.6	222.6	265.8	352.3	417.2	425.3
122.5°	109.6	116.7	123.7	125.4	156.7	198.5	219.3	258.3	336.1	394.6	402.6
125°	119.3	125.7	132.2	133.7	161.1	197.6	215.8	248.9	315.1	364.7	372.0
127.5°	127.1	133.6	140.1	141.7	165.4	197.1	212.9	241.3	298.1	340.7	346.9
130°	131.3	138.3	145.2	147.0	168.6	197.4	211.7	237.0	287.6	325.5	331.2
132.5°	135.7	142.7	149.6	151.4	171.2	197.6	210.8	233.4	278.7	312.6	317.7
135°	142.2	148.5	154.9	156.4	174.0	197.4	209.1	228.1	266.0	294.4	298.8
137.5°	148.8	155.0	161.3	162.9	178.2	198.7	208.8	224.9	256.9	280.9	284.5
140°	154.2	160.0	165.8	167.3	180.8	198.8	207.8	221.6	249.4	270.1	273.5
142.5°	158.4	163.7	169.1	170.5	182.9	199.5	207.8	220.0	244.3	262.5	265.4
145°	164.9	169.5	174.2	175.4	185.8	199.5	206.4	216.3	236.2	251.2	253.3
147.5°	171.3	175.9	180.4	181.6	189.9	200.9	206.4	214.3	229.9	241.6	243.4
150°	175.5	179.6	183.8	184.8	192.0	201.7	206.4	213.0	226.2	236.1	237.6
152.5°	179.9	183.0	186.1	186.9	193.4	202.1	206.4	212.0	223.3	231.8	232.9
155°	186.3	188.7	191.0	191.6	196.5	203.1	206.4	210.9	219.9	226.6	227.3
157.5°	191.1	193.3	195.6	196.1	199.6	204.2	206.4	209.9	216.9	222.1	222.7
160°	194.4	196.1	197.8	198.3	201.0	204.6	206.4	209.4	215.4	219.9	220.1
162.5°	197.5	198.8	200.2	200.5	202.5	205.1	206.4	208.9	214.0	217.8	218.1
165°	201.1	202.2	203.4	203.7	204.6	205.9	206.4	208.2	211.8	214.5	214.8
167.5°	204.3	204.8	205.4	205.6	206.3	207.3	207.8	209.0	211.4	213.1	213.2
170°	206.4	207.0	207.5	207.6	207.7	207.8	207.8	209.0	211.4	213.1	213.1
172.5°	207.5	207.6	207.8	207.8	207.8	207.8	207.8	208.7	210.6	212.0	211.9
175°	209.1	209.1	209.1	209.1	208.7	208.1	207.8	208.4	209.6	210.5	210.5
177.5°	209.1	209.1	209.1	209.1	208.7	208.3	208.1	208.6	209.5	210.2	210.2
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
2.5°	1018.5	1015.7	1018.5	1016.7	1017.6	1014.8	1006.3	1003.5	1006.3	1009.1	1009.1
5°	1030.8	1028.8	1030.8	1030.8	1029.8	1027.9	1018.5	1016.7	1018.5	1019.5	1017.6
7.5°	1034.5	1031.7	1034.5	1032.6	1032.6	1030.8	1021.3	1019.5	1020.4	1023.2	1020.4
10°	1034.5	1031.7	1034.5	1033.6	1032.6	1030.8	1021.3	1017.6	1017.6	1020.4	1017.6
12.5°	1029.8	1027.9	1029.8	1027.9	1027.9	1026.0	1016.7	1012.8	1013.9	1014.8	1011.0
15°	1022.3	1019.5	1022.3	1020.4	1021.3	1018.5	1008.2	1004.4	1004.4	1006.3	999.8
17.5°	1011.0	1007.2	1011.0	1010.0	1009.1	1007.2	997.8	994.1	993.1	994.1	989.4
20°	997.8	995.0	997.8	996.9	996.9	993.1	983.8	979.0	979.0	979.0	974.3
22.5°	977.2	974.3	977.2	979.0	979.0	978.1	969.7	963.0	961.2	961.2	955.6
25°	953.7	950.9	953.7	953.7	952.8	953.7	950.9	947.1	944.3	941.5	935.9
27.5°	931.1	929.2	931.1	929.2	931.1	928.3	927.4	926.4	922.7	919.9	912.3
30°	908.6	906.7	908.6	906.7	904.9	902.9	898.2	896.4	900.1	898.2	886.0
32.5°	880.4	878.5	880.4	880.4	878.5	878.5	871.0	868.2	869.1	874.8	863.5
35°	851.2	848.4	851.2	850.3	851.2	848.4	843.8	842.8	839.0	845.6	837.1
37.5°	817.4	814.6	817.4	817.4	817.4	819.3	815.6	812.8	807.1	815.6	808.9
40°	782.7	779.0	782.7	781.8	782.7	784.6	782.7	780.8	775.1	781.8	776.1
42.5°	743.2	742.2	743.2	744.1	744.1	747.9	750.7	747.0	745.1	740.4	744.1
45°	701.0	699.0	701.0	702.8	703.8	705.6	714.0	714.0	711.2	703.8	709.4
47.5°	655.9	651.1	655.9	661.5	661.5	664.3	672.8	679.3	674.6	665.2	668.1
50°	607.9	608.9	607.9	611.7	611.7	622.0	628.6	635.1	639.9	628.6	615.4
52.5°	561.0	560.0	561.0	563.8	567.5	572.2	583.5	590.1	597.6	591.0	570.3
55°	514.0	515.8	514.0	514.9	516.8	519.6	536.5	543.1	557.1	548.7	527.1
57.5°	467.0	464.2	467.0	468.9	469.8	472.6	486.7	498.9	507.3	508.3	482.0
60°	412.5	408.7	412.5	421.0	422.8	424.7	437.9	449.2	456.6	459.4	432.3
62.5°	364.5	358.0	364.5	370.2	374.0	378.6	388.1	405.0	411.5	412.5	374.0
65°	313.8	311.0	313.8	325.1	326.1	331.7	342.0	354.3	368.3	366.4	311.0
67.5°	267.8	267.8	267.8	275.3	280.9	283.7	296.9	302.5	320.4	322.3	259.4
70°	225.5	224.5	225.5	231.2	234.9	241.4	253.7	260.3	274.3	279.1	210.4
72.5°	185.1	184.2	185.1	189.8	193.5	199.2	209.5	217.1	229.3	234.9	163.5
75°	149.4	147.5	149.4	153.2	152.2	159.7	168.2	175.7	187.0	190.7	121.2
77.5°	114.6	114.6	114.6	118.4	118.4	125.9	129.6	139.1	145.6	151.3	89.3
80°	85.5	84.5	85.5	86.5	86.5	90.2	96.8	103.4	109.0	109.0	61.1
82.5°	60.1	58.3	60.1	60.1	60.1	62.0	65.8	67.6	71.5	74.3	38.5
85°	37.5	37.5	37.5	38.5	37.5	39.5	40.4	42.3	42.3	40.4	23.4
87.5°	24.5	23.4	24.5	23.4	23.4	22.5	22.5	22.5	21.6	20.6	13.2
90°	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.6	9.2	6.2	3.9
92.5°	21.3	17.1	21.3	25.6	26.6	37.7	52.6	60.1	52.8	38.1	27.1
95°	74.4	61.6	74.4	87.3	90.5	118.8	156.6	175.5	148.2	93.7	52.8
97.5°	178.4	153.9	178.4	202.9	208.9	226.9	250.7	262.6	217.2	126.2	57.9
100°	257.0	227.9	257.0	286.1	293.4	292.1	290.3	289.4	239.0	138.0	62.3
102.5°	334.4	309.4	334.4	359.3	365.6	342.7	312.2	297.0	245.8	143.5	66.7
105°	433.0	419.6	433.0	446.4	449.7	398.5	330.3	296.2	246.6	147.5	73.1
107.5°	497.5	500.8	497.5	494.4	493.5	422.2	327.0	279.4	235.6	148.2	82.7
110°	522.2	536.2	522.2	508.2	504.7	425.0	318.6	265.3	225.9	147.1	88.0



TEST NUMBER: P933907

CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	524.3	545.8	524.3	502.9	497.5	415.9	307.0	252.6	217.4	147.1	94.4
115°	510.4	540.2	510.4	480.7	473.3	394.6	289.7	237.2	207.6	148.5	104.1
117.5°	481.0	514.0	481.0	447.9	439.7	368.7	274.1	226.8	201.6	151.2	113.5
120°	457.3	489.3	457.3	425.3	417.2	352.3	265.8	222.6	199.6	153.5	119.0
122.5°	434.1	465.7	434.1	402.6	394.6	336.1	258.3	219.3	198.5	156.7	125.4
125°	401.1	430.2	401.1	372.0	364.7	315.1	248.9	215.8	197.6	161.1	133.7
127.5°	371.5	396.0	371.5	346.9	340.7	298.1	241.3	212.9	197.1	165.4	141.7
130°	353.9	376.6	353.9	331.2	325.5	287.6	237.0	211.7	197.4	168.6	147.0
132.5°	338.0	358.4	338.0	317.7	312.6	278.7	233.4	210.8	197.6	171.2	151.4
135°	316.3	333.8	316.3	298.8	294.4	266.0	228.1	209.1	197.4	174.0	156.4
137.5°	298.9	313.2	298.9	284.5	280.9	256.9	224.9	208.8	198.7	178.2	162.9
140°	286.8	300.3	286.8	273.5	270.1	249.4	221.6	207.8	198.8	180.8	167.3
142.5°	276.9	288.5	276.9	265.4	262.5	244.3	220.0	207.8	199.5	182.9	170.5
145°	262.1	270.9	262.1	253.3	251.2	236.2	216.3	206.4	199.5	185.8	175.4
147.5°	250.7	257.9	250.7	243.4	241.6	229.9	214.3	206.4	200.9	189.9	181.6
150°	243.5	249.4	243.5	237.6	236.1	226.2	213.0	206.4	201.7	192.0	184.8
152.5°	237.3	241.8	237.3	232.9	231.8	223.3	212.0	206.4	202.1	193.4	186.9
155°	230.2	233.2	230.2	227.3	226.6	219.9	210.9	206.4	203.1	196.5	191.6
157.5°	224.7	226.8	224.7	222.7	222.1	216.9	209.9	206.4	204.2	199.6	196.1
160°	221.4	222.6	221.4	220.1	219.9	215.4	209.4	206.4	204.6	201.0	198.3
162.5°	219.2	220.3	219.2	218.1	217.8	214.0	208.9	206.4	205.1	202.5	200.5
165°	216.0	217.2	216.0	214.8	214.5	211.8	208.2	206.4	205.9	204.6	203.7
167.5°	213.8	214.3	213.8	213.2	213.1	211.4	209.0	207.8	207.3	206.3	205.6
170°	213.1	213.1	213.1	213.1	213.1	211.4	209.0	207.8	207.8	207.7	207.6
172.5°	211.5	211.1	211.5	211.9	212.0	210.6	208.7	207.8	207.8	207.8	207.8
175°	210.5	210.5	210.5	210.5	210.5	209.6	208.4	207.8	208.1	208.7	209.1
177.5°	209.6	209.1	209.6	210.2	210.2	209.5	208.6	208.1	208.3	208.7	209.1
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



TEST NUMBER: P933907

CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
2.5°	1007.2	1001.6	1001.6	992.2	988.5	985.7	980.9	966.9	963.0	959.3	964.9
5°	1015.7	1005.4	997.8	980.9	966.9	961.2	943.3	909.5	886.9	870.0	860.7
7.5°	1017.6	1004.4	990.3	964.0	930.2	915.1	860.7	798.7	781.8	766.7	757.3
10°	1015.7	1000.7	980.9	941.5	861.6	835.3	780.8	740.4	730.0	727.2	730.0
12.5°	1009.1	995.0	967.8	902.0	790.2	772.3	740.4	716.9	715.0	719.7	745.1
15°	997.8	984.7	952.8	849.4	750.7	737.6	715.0	706.6	716.9	749.8	825.9
17.5°	986.6	971.5	932.0	797.7	720.7	711.2	695.3	712.2	770.5	814.6	839.9
20°	971.5	953.7	908.6	760.1	699.0	690.6	683.0	759.2	803.3	819.3	833.4
22.5°	953.7	934.8	876.7	733.8	676.5	670.0	674.6	785.5	803.3	814.6	826.9
25°	930.2	914.2	839.0	713.1	658.7	651.1	669.0	782.7	793.0	795.9	820.2
27.5°	908.6	887.9	799.6	694.3	637.1	634.2	673.7	770.5	778.0	780.8	807.1
30°	882.3	851.2	755.4	674.6	614.5	613.5	674.6	755.4	753.6	761.0	787.4
32.5°	855.0	796.8	705.6	650.2	592.9	592.0	668.1	732.9	731.0	741.3	761.0
35°	829.7	754.5	638.0	622.0	565.6	566.6	652.0	706.6	707.5	716.9	729.1
37.5°	803.3	717.9	563.8	591.0	539.3	539.3	630.4	682.1	680.2	683.0	700.0
40°	772.3	660.5	498.0	550.6	514.9	512.1	604.1	655.9	649.2	648.3	671.8
42.5°	739.4	597.6	449.2	497.1	486.7	483.0	572.2	623.9	611.7	614.5	644.6
45°	703.8	580.7	411.5	420.0	457.6	454.8	537.4	587.2	578.8	586.3	617.3
47.5°	668.1	546.9	399.3	348.6	426.6	425.6	498.9	551.5	546.9	554.3	587.2
50°	619.1	509.2	398.4	298.8	391.8	395.5	452.9	516.8	516.8	523.3	558.2
52.5°	556.2	463.2	361.7	270.6	351.4	362.7	412.5	486.7	488.6	495.2	526.1
55°	498.9	415.3	335.4	249.0	303.5	327.9	373.0	455.7	459.4	466.1	494.2
57.5°	446.3	345.8	329.8	223.6	259.4	282.8	338.3	425.6	427.5	433.2	460.4
60°	389.9	249.9	302.5	196.3	220.8	238.6	306.3	389.9	396.5	400.2	423.8
62.5°	326.1	181.4	274.3	177.6	202.0	205.8	280.0	356.1	364.5	367.3	381.4
65°	232.1	152.2	233.0	161.6	182.3	183.3	251.8	321.3	328.9	333.5	343.9
67.5°	156.9	124.0	177.6	146.5	167.3	168.2	224.5	280.9	291.3	295.1	301.6
70°	109.0	82.7	131.5	130.6	150.4	152.2	195.4	244.3	253.7	256.5	260.3
72.5°	79.9	66.7	109.0	117.4	132.4	134.4	165.4	203.0	212.4	215.2	217.1
75°	61.1	70.4	88.4	102.5	112.7	113.7	135.3	165.4	171.9	173.8	174.8
77.5°	48.8	65.8	64.8	82.7	92.1	90.2	106.2	127.8	133.4	133.4	133.4
80°	36.6	51.7	48.8	59.2	67.6	65.8	76.1	91.2	93.0	94.9	94.0
82.5°	27.3	32.9	32.9	37.5	45.1	43.2	50.7	59.2	59.2	59.2	61.1
85°	16.9	18.8	15.0	19.7	25.4	24.5	28.2	31.9	32.9	32.9	31.0
87.5°	10.4	8.5	4.7	7.5	11.3	11.3	13.2	14.1	13.2	13.2	13.2
90°	3.6	2.5	1.4	2.5	3.6	3.9	6.2	9.2	10.6	9.4	7.1
92.5°	24.7	15.1	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.7
95°	48.4	30.9	13.4	30.9	48.4	52.8	93.7	148.2	175.5	156.6	118.8
97.5°	54.1	38.7	23.3	38.7	54.1	57.9	126.2	217.2	262.6	250.7	226.9
100°	58.8	44.8	30.9	44.8	58.8	62.3	138.0	239.0	289.4	290.3	292.1
102.5°	63.4	50.4	37.4	50.4	63.4	66.7	143.5	245.8	297.0	312.2	342.7
105°	70.3	59.3	48.3	59.3	70.3	73.1	147.5	246.6	296.2	330.3	398.5
107.5°	80.0	69.8	59.5	69.8	80.0	82.7	148.2	235.6	279.4	327.0	422.2
110°	85.6	76.4	67.1	76.4	85.6	88.0	147.1	225.9	265.3	318.6	425.0



TEST NUMBER: P933907

CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	92.2	83.4	74.5	83.4	92.2	94.4	147.1	217.4	252.6	307.0	415.9
115°	102.1	94.0	85.7	94.0	102.1	104.1	148.5	207.6	237.2	289.7	394.6
117.5°	111.6	104.2	96.9	104.2	111.6	113.5	151.2	201.6	226.8	274.1	368.7
120°	117.2	110.3	103.3	110.3	117.2	119.0	153.5	199.6	222.6	265.8	352.3
122.5°	123.7	116.7	109.6	116.7	123.7	125.4	156.7	198.5	219.3	258.3	336.1
125°	132.2	125.7	119.3	125.7	132.2	133.7	161.1	197.6	215.8	248.9	315.1
127.5°	140.1	133.6	127.1	133.6	140.1	141.7	165.4	197.1	212.9	241.3	298.1
130°	145.2	138.3	131.3	138.3	145.2	147.0	168.6	197.4	211.7	237.0	287.6
132.5°	149.6	142.7	135.7	142.7	149.6	151.4	171.2	197.6	210.8	233.4	278.7
135°	154.9	148.5	142.2	148.5	154.9	156.4	174.0	197.4	209.1	228.1	266.0
137.5°	161.3	155.0	148.8	155.0	161.3	162.9	178.2	198.7	208.8	224.9	256.9
140°	165.8	160.0	154.2	160.0	165.8	167.3	180.8	198.8	207.8	221.6	249.4
142.5°	169.1	163.7	158.4	163.7	169.1	170.5	182.9	199.5	207.8	220.0	244.3
145°	174.2	169.5	164.9	169.5	174.2	175.4	185.8	199.5	206.4	216.3	236.2
147.5°	180.4	175.9	171.3	175.9	180.4	181.6	189.9	200.9	206.4	214.3	229.9
150°	183.8	179.6	175.5	179.6	183.8	184.8	192.0	201.7	206.4	213.0	226.2
152.5°	186.1	183.0	179.9	183.0	186.1	186.9	193.4	202.1	206.4	212.0	223.3
155°	191.0	188.7	186.3	188.7	191.0	191.6	196.5	203.1	206.4	210.9	219.9
157.5°	195.6	193.3	191.1	193.3	195.6	196.1	199.6	204.2	206.4	209.9	216.9
160°	197.8	196.1	194.4	196.1	197.8	198.3	201.0	204.6	206.4	209.4	215.4
162.5°	200.2	198.8	197.5	198.8	200.2	200.5	202.5	205.1	206.4	208.9	214.0
165°	203.4	202.2	201.1	202.2	203.4	203.7	204.6	205.9	206.4	208.2	211.8
167.5°	205.4	204.8	204.3	204.8	205.4	205.6	206.3	207.3	207.8	209.0	211.4
170°	207.5	207.0	206.4	207.0	207.5	207.6	207.7	207.8	207.8	209.0	211.4
172.5°	207.8	207.6	207.5	207.6	207.8	207.8	207.8	207.8	207.8	208.7	210.6
175°	209.1	209.1	209.1	209.1	209.1	209.1	208.7	208.1	207.8	208.4	209.6
177.5°	209.1	209.1	209.1	209.1	209.1	209.1	208.7	208.3	208.1	208.6	209.5
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



TEST NUMBER: P933907
 CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
2.5°	958.4	955.6	959.3	948.9	959.3	955.6	958.4	964.9	959.3	963.0	966.9
5°	841.0	836.2	821.2	808.9	821.2	836.2	841.0	860.7	870.0	886.9	909.5
7.5°	751.7	747.9	744.1	736.6	744.1	747.9	751.7	757.3	766.7	781.8	798.7
10°	732.0	732.9	738.5	737.6	738.5	732.9	732.0	730.0	727.2	730.0	740.4
12.5°	782.7	791.1	822.1	820.2	822.1	791.1	782.7	745.1	719.7	715.0	716.9
15°	841.0	843.8	850.3	851.2	850.3	843.8	841.0	825.9	749.8	716.9	706.6
17.5°	846.6	847.5	852.2	852.2	852.2	847.5	846.6	839.9	814.6	770.5	712.2
20°	841.9	843.8	853.1	855.0	853.1	843.8	841.9	833.4	819.3	803.3	759.2
22.5°	839.9	843.8	851.2	850.3	851.2	843.8	839.9	826.9	814.6	803.3	785.5
25°	830.6	830.6	831.5	832.5	831.5	830.6	830.6	820.2	795.9	793.0	782.7
27.5°	810.9	812.8	818.4	817.4	818.4	812.8	810.9	807.1	780.8	778.0	770.5
30°	793.0	791.1	786.4	782.7	786.4	791.1	793.0	787.4	761.0	753.6	755.4
32.5°	763.0	758.2	753.6	750.7	753.6	758.2	763.0	761.0	741.3	731.0	732.9
35°	727.2	728.1	727.2	724.4	727.2	728.1	727.2	729.1	716.9	707.5	706.6
37.5°	701.9	703.8	702.8	699.0	702.8	703.8	701.9	700.0	683.0	680.2	682.1
40°	675.6	676.5	675.6	672.8	675.6	676.5	675.6	671.8	648.3	649.2	655.9
42.5°	650.2	649.2	646.4	644.6	646.4	649.2	650.2	644.6	614.5	611.7	623.9
45°	621.1	622.0	616.3	613.5	616.3	622.0	621.1	617.3	586.3	578.8	587.2
47.5°	592.0	592.0	587.2	584.4	587.2	592.0	592.0	587.2	554.3	546.9	551.5
50°	561.0	560.0	553.4	552.5	553.4	560.0	561.0	558.2	523.3	516.8	516.8
52.5°	525.2	525.2	526.1	528.1	526.1	525.2	525.2	526.1	495.2	488.6	486.7
55°	494.2	495.2	501.7	503.6	501.7	495.2	494.2	494.2	466.1	459.4	455.7
57.5°	462.2	462.2	467.0	467.0	467.0	462.2	462.2	460.4	433.2	427.5	425.6
60°	425.6	427.5	431.2	430.3	431.2	427.5	425.6	423.8	400.2	396.5	389.9
62.5°	387.1	389.0	389.9	388.1	389.9	389.0	387.1	381.4	367.3	364.5	356.1
65°	346.7	348.6	349.5	347.6	349.5	348.6	346.7	343.9	333.5	328.9	321.3
67.5°	305.3	304.4	303.5	307.3	303.5	304.4	305.3	301.6	295.1	291.3	280.9
70°	263.1	263.1	262.2	264.0	262.2	263.1	263.1	260.3	256.5	253.7	244.3
72.5°	218.0	217.1	220.8	218.0	220.8	217.1	218.0	217.1	215.2	212.4	203.0
75°	173.8	175.7	173.8	176.6	173.8	175.7	173.8	174.8	173.8	171.9	165.4
77.5°	132.4	134.4	132.4	132.4	132.4	134.4	132.4	133.4	133.4	133.4	127.8
80°	94.0	93.0	93.0	92.1	93.0	93.0	94.0	94.0	94.9	93.0	91.2
82.5°	60.1	59.2	59.2	61.1	59.2	59.2	60.1	61.1	59.2	59.2	59.2
85°	32.9	33.8	31.9	31.9	31.9	33.8	32.9	31.0	32.9	32.9	31.9
87.5°	12.2	11.3	11.3	11.3	11.3	11.3	12.2	13.2	13.2	13.2	14.1
90°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.6	9.2
92.5°	26.6	25.6	21.3	17.1	21.3	25.6	26.6	37.7	52.6	60.1	52.8
95°	90.5	87.3	74.4	61.6	74.4	87.3	90.5	118.8	156.6	175.5	148.2
97.5°	208.9	202.9	178.4	153.9	178.4	202.9	208.9	226.9	250.7	262.6	217.2
100°	293.4	286.1	257.0	227.9	257.0	286.1	293.4	292.1	290.3	289.4	239.0
102.5°	365.6	359.3	334.4	309.4	334.4	359.3	365.6	342.7	312.2	297.0	245.8
105°	449.7	446.4	433.0	419.6	433.0	446.4	449.7	398.5	330.3	296.2	246.6
107.5°	493.5	494.4	497.5	500.8	497.5	494.4	493.5	422.2	327.0	279.4	235.6
110°	504.7	508.2	522.2	536.2	522.2	508.2	504.7	425.0	318.6	265.3	225.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	497.5	502.9	524.3	545.8	524.3	502.9	497.5	415.9	307.0	252.6	217.4
115°	473.3	480.7	510.4	540.2	510.4	480.7	473.3	394.6	289.7	237.2	207.6
117.5°	439.7	447.9	481.0	514.0	481.0	447.9	439.7	368.7	274.1	226.8	201.6
120°	417.2	425.3	457.3	489.3	457.3	425.3	417.2	352.3	265.8	222.6	199.6
122.5°	394.6	402.6	434.1	465.7	434.1	402.6	394.6	336.1	258.3	219.3	198.5
125°	364.7	372.0	401.1	430.2	401.1	372.0	364.7	315.1	248.9	215.8	197.6
127.5°	340.7	346.9	371.5	396.0	371.5	346.9	340.7	298.1	241.3	212.9	197.1
130°	325.5	331.2	353.9	376.6	353.9	331.2	325.5	287.6	237.0	211.7	197.4
132.5°	312.6	317.7	338.0	358.4	338.0	317.7	312.6	278.7	233.4	210.8	197.6
135°	294.4	298.8	316.3	333.8	316.3	298.8	294.4	266.0	228.1	209.1	197.4
137.5°	280.9	284.5	298.9	313.2	298.9	284.5	280.9	256.9	224.9	208.8	198.7
140°	270.1	273.5	286.8	300.3	286.8	273.5	270.1	249.4	221.6	207.8	198.8
142.5°	262.5	265.4	276.9	288.5	276.9	265.4	262.5	244.3	220.0	207.8	199.5
145°	251.2	253.3	262.1	270.9	262.1	253.3	251.2	236.2	216.3	206.4	199.5
147.5°	241.6	243.4	250.7	257.9	250.7	243.4	241.6	229.9	214.3	206.4	200.9
150°	236.1	237.6	243.5	249.4	243.5	237.6	236.1	226.2	213.0	206.4	201.7
152.5°	231.8	232.9	237.3	241.8	237.3	232.9	231.8	223.3	212.0	206.4	202.1
155°	226.6	227.3	230.2	233.2	230.2	227.3	226.6	219.9	210.9	206.4	203.1
157.5°	222.1	222.7	224.7	226.8	224.7	222.7	222.1	216.9	209.9	206.4	204.2
160°	219.9	220.1	221.4	222.6	221.4	220.1	219.9	215.4	209.4	206.4	204.6
162.5°	217.8	218.1	219.2	220.3	219.2	218.1	217.8	214.0	208.9	206.4	205.1
165°	214.5	214.8	216.0	217.2	216.0	214.8	214.5	211.8	208.2	206.4	205.9
167.5°	213.1	213.2	213.8	214.3	213.8	213.2	213.1	211.4	209.0	207.8	207.3
170°	213.1	213.1	213.1	213.1	213.1	213.1	213.1	211.4	209.0	207.8	207.8
172.5°	212.0	211.9	211.5	211.1	211.5	211.9	212.0	210.6	208.7	207.8	207.8
175°	210.5	210.5	210.5	210.5	210.5	210.5	210.5	209.6	208.4	207.8	208.1
177.5°	210.2	210.2	209.6	209.1	209.6	210.2	210.2	209.5	208.6	208.1	208.3
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	993.1	993.1	993.1	993.1	993.1
2.5°	980.9	985.7	988.5	992.2	1001.6
5°	943.3	961.2	966.9	980.9	997.8
7.5°	860.7	915.1	930.2	964.0	990.3
10°	780.8	835.3	861.6	941.5	980.9
12.5°	740.4	772.3	790.2	902.0	967.8
15°	715.0	737.6	750.7	849.4	952.8
17.5°	695.3	711.2	720.7	797.7	932.0
20°	683.0	690.6	699.0	760.1	908.6
22.5°	674.6	670.0	676.5	733.8	876.7
25°	669.0	651.1	658.7	713.1	839.0
27.5°	673.7	634.2	637.1	694.3	799.6
30°	674.6	613.5	614.5	674.6	755.4
32.5°	668.1	592.0	592.9	650.2	705.6
35°	652.0	566.6	565.6	622.0	638.0
37.5°	630.4	539.3	539.3	591.0	563.8
40°	604.1	512.1	514.9	550.6	498.0
42.5°	572.2	483.0	486.7	497.1	449.2
45°	537.4	454.8	457.6	420.0	411.5
47.5°	498.9	425.6	426.6	348.6	399.3
50°	452.9	395.5	391.8	298.8	398.4
52.5°	412.5	362.7	351.4	270.6	361.7
55°	373.0	327.9	303.5	249.0	335.4
57.5°	338.3	282.8	259.4	223.6	329.8
60°	306.3	238.6	220.8	196.3	302.5
62.5°	280.0	205.8	202.0	177.6	274.3
65°	251.8	183.3	182.3	161.6	233.0
67.5°	224.5	168.2	167.3	146.5	177.6
70°	195.4	152.2	150.4	130.6	131.5
72.5°	165.4	134.4	132.4	117.4	109.0
75°	135.3	113.7	112.7	102.5	88.4
77.5°	106.2	90.2	92.1	82.7	64.8
80°	76.1	65.8	67.6	59.2	48.8
82.5°	50.7	43.2	45.1	37.5	32.9
85°	28.2	24.5	25.4	19.7	15.0
87.5°	13.2	11.3	11.3	7.5	4.7
90°	6.2	3.9	3.6	2.5	1.4
92.5°	38.1	27.1	24.7	15.1	5.6
95°	93.7	52.8	48.4	30.9	13.4
97.5°	126.2	57.9	54.1	38.7	23.3
100°	138.0	62.3	58.8	44.8	30.9
102.5°	143.5	66.7	63.4	50.4	37.4
105°	147.5	73.1	70.3	59.3	48.3
107.5°	148.2	82.7	80.0	69.8	59.5
110°	147.1	88.0	85.6	76.4	67.1



TEST NUMBER: P933907

CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	147.1	94.4	92.2	83.4	74.5
115°	148.5	104.1	102.1	94.0	85.7
117.5°	151.2	113.5	111.6	104.2	96.9
120°	153.5	119.0	117.2	110.3	103.3
122.5°	156.7	125.4	123.7	116.7	109.6
125°	161.1	133.7	132.2	125.7	119.3
127.5°	165.4	141.7	140.1	133.6	127.1
130°	168.6	147.0	145.2	138.3	131.3
132.5°	171.2	151.4	149.6	142.7	135.7
135°	174.0	156.4	154.9	148.5	142.2
137.5°	178.2	162.9	161.3	155.0	148.8
140°	180.8	167.3	165.8	160.0	154.2
142.5°	182.9	170.5	169.1	163.7	158.4
145°	185.8	175.4	174.2	169.5	164.9
147.5°	189.9	181.6	180.4	175.9	171.3
150°	192.0	184.8	183.8	179.6	175.5
152.5°	193.4	186.9	186.1	183.0	179.9
155°	196.5	191.6	191.0	188.7	186.3
157.5°	199.6	196.1	195.6	193.3	191.1
160°	201.0	198.3	197.8	196.1	194.4
162.5°	202.5	200.5	200.2	198.8	197.5
165°	204.6	203.7	203.4	202.2	201.1
167.5°	206.3	205.6	205.4	204.8	204.3
170°	207.7	207.6	207.5	207.0	206.4
172.5°	207.8	207.8	207.8	207.6	207.5
175°	208.7	209.1	209.1	209.1	209.1
177.5°	208.7	209.1	209.1	209.1	209.1
180°	209.1	209.1	209.1	209.1	209.1



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.43	13.45	13.24	14.29	15.32	15.26	16.28	16.07	17.11	18.14
	3H	12.92	13.84	13.75	14.68	15.74	16.61	17.53	17.44	18.37	19.43
	4H	13.12	13.98	13.96	14.84	15.90	17.06	17.93	17.90	18.78	19.85
	6H	13.25	14.04	14.10	14.90	15.99	17.35	18.15	18.21	19.01	20.09
	8H	13.25	14.01	14.11	14.89	15.97	17.43	18.19	18.29	19.07	20.15
	12H	13.23	13.95	14.10	14.82	15.93	17.48	18.20	18.34	19.07	20.18
4H	2H	13.48	14.35	14.33	15.20	16.27	15.69	16.55	16.53	17.40	18.47
	3H	14.52	15.24	15.38	16.13	17.21	17.20	17.92	18.06	18.81	19.89
	4H	14.81	15.46	15.68	16.34	17.46	17.74	18.39	18.61	19.27	20.39
	6H	14.94	15.51	15.83	16.41	17.53	18.11	18.68	19.00	19.58	20.70
	8H	14.95	15.48	15.84	16.38	17.51	18.22	18.75	19.11	19.65	20.78
	12H	14.93	15.40	15.83	16.32	17.46	18.28	18.76	19.19	19.68	20.81
8H	4H	15.27	15.80	16.16	16.70	17.83	17.87	18.40	18.76	19.30	20.43
	6H	15.54	15.98	16.46	16.92	18.05	18.32	18.75	19.23	19.70	20.82
	8H	15.58	15.97	16.51	16.91	18.05	18.47	18.86	19.40	19.79	20.94
	12H	15.58	15.92	16.51	16.84	18.04	18.57	18.92	19.50	19.84	21.04
12H	4H	15.29	15.76	16.19	16.68	17.82	17.85	18.32	18.76	19.24	20.38
	6H	15.60	15.99	16.53	16.93	18.07	18.31	18.70	19.24	19.64	20.78
	8H	15.68	16.02	16.61	16.94	18.14	18.48	18.82	19.41	19.75	20.95