

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: P934702

Luminaire Tested: SQ4-FA-075U-050D-B40-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934702
REPORT IS A COMBINATION OF REPORTS P933706 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-B40-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

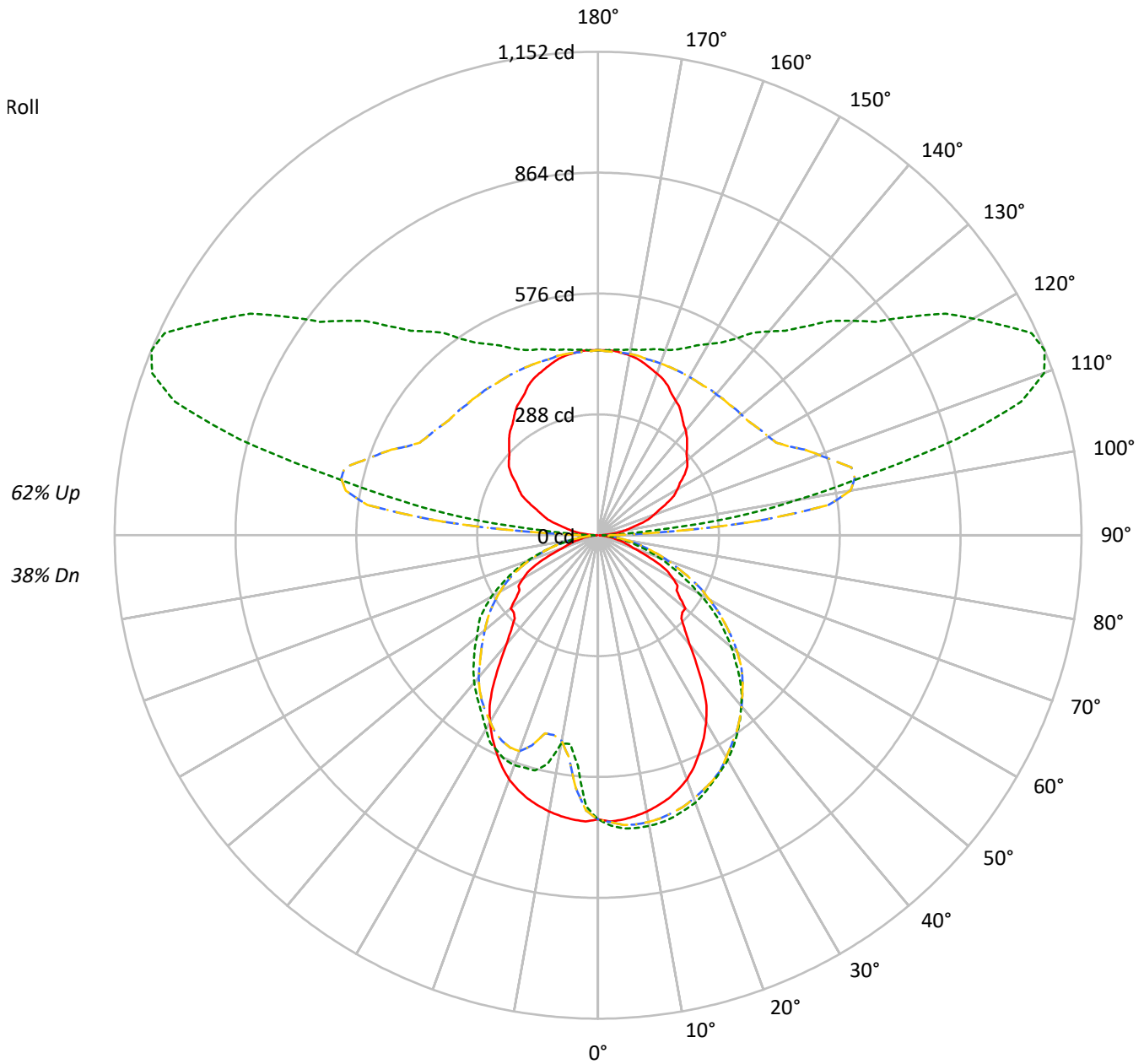
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4616.5 lumens
Efficiency: N/A
Efficacy: 134.2 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): 34.4
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



— 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°	6282	6282	6282	6282
5°	6322	6342	6322	4986
10°	6273	6247	6273	4466
15°	6197	6112	6197	5103
20°	6060	5950	6060	5113
25°	5788	5717	5788	5005
30°	5439	5523	5439	4768
35°	4842	5277	4842	4506
40°	4027	4989	4027	4308
45°	3591	4650	3591	4081
50°	3807	4246	3807	3853
55°	3571	3811	3571	3721
60°	3670	3237	3670	3409
65°	3309	2676	3309	2990
70°	2277	2133	2277	2508
75°	1974	1577	1974	1888
80°	1558	1043	1558	1134
85°	845	552	845	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5515 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	1.3
10°-20°	173.5	3.8
20°-30°	268.2	5.8
30°-40°	320.2	6.9
40°-50°	322.1	7.0
50°-60°	280.2	6.1
60°-70°	198.7	4.3
70°-80°	105.1	2.3
80°-90°	27.9	0.6
90°-100°	215.0	4.7
100°-110°	565.3	12.2
110°-120°	586.1	12.7
120°-130°	470.2	10.2
130°-140°	368.9	8.0
140°-150°	283.1	6.1
150°-160°	203.9	4.4
160°-170°	124.8	2.7
170°-180°	42.2	0.9
0°-30°	502.8	10.9
0°-40°	823.0	17.8
0°-60°	1425.3	30.9
0°-90°	1757.0	38.1
90°-120°	1366.5	29.6
90°-150°	2488.7	53.9
90°-180°	2860.0	62.0
0°-180°	4616.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	677	677	677	677	677	
5°	680	701	680	551	680	65
15°	649	695	649	580	649	183
25°	572	648	572	568	572	263
35°	435	578	435	494	435	269
45°	280	476	280	418	280	225
55°	229	352	229	343	229	210
65°	159	212	159	237	159	152
75°	60	101	60	120	60	63
85°	10	26	10	22	10	14
90°	3	11	3	11	3	3
95°	28	130	28	130	28	32
105°	102	885	102	885	102	108
115°	181	1140	181	1140	181	179
125°	252	908	252	908	252	223
135°	300	704	300	704	300	232
145°	348	571	348	571	348	218
155°	393	492	393	492	393	181
165°	424	458	424	458	424	120
175°	441	444	441	444	441	42
180°	441	441	441	441	441	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	682.7	682.7	686.5	687.9	687.9	686.0	684.1	686.0	691.7	693.6	692.9
5°	680.2	685.3	692.4	693.6	695.0	694.3	692.9	694.3	700.7	701.9	702.6
7.5°	675.1	684.6	693.6	695.5	697.4	695.5	695.0	696.2	702.6	703.8	703.8
10°	668.7	682.1	692.4	693.6	695.5	693.6	693.6	696.2	702.6	703.8	704.5
12.5°	659.7	678.2	687.9	689.1	691.7	691.0	690.5	692.9	699.4	700.7	700.7
15°	649.4	671.2	680.2	681.5	686.0	684.6	684.6	687.2	694.3	696.2	695.5
17.5°	635.4	662.3	672.5	674.4	677.7	677.0	677.7	680.2	686.5	687.9	688.6
20°	619.3	650.1	662.3	664.2	667.4	667.4	667.4	670.6	677.0	679.6	679.6
22.5°	597.5	637.3	650.1	651.4	655.2	655.2	656.5	661.0	666.7	667.4	667.4
25°	571.9	623.1	634.0	637.9	641.8	643.7	645.6	648.2	650.1	649.4	650.1
27.5°	545.0	605.3	619.3	621.9	627.1	629.0	631.5	632.1	632.8	634.7	633.5
30°	514.9	580.3	601.4	603.9	612.3	613.6	611.0	612.3	615.5	616.7	618.1
32.5°	481.0	543.1	582.8	588.6	596.3	592.5	591.8	593.7	598.9	598.9	600.1
35°	434.9	514.3	565.6	570.7	576.4	571.9	574.5	575.1	578.3	580.3	579.6
37.5°	384.3	489.3	547.6	551.4	555.9	550.2	554.0	555.9	558.5	557.2	557.2
40°	339.4	450.3	526.5	529.1	532.9	528.4	532.2	533.6	534.8	533.6	532.9
42.5°	306.2	407.3	504.0	507.3	504.7	507.9	509.2	511.8	509.8	507.3	507.3
45°	280.5	395.8	479.7	483.5	479.7	484.9	486.8	486.8	481.0	479.7	479.0
47.5°	272.2	372.7	455.3	455.3	453.4	459.8	463.1	458.6	452.9	450.9	450.9
50°	271.6	347.1	422.1	419.5	428.5	436.1	433.0	428.5	424.0	417.0	417.0
52.5°	246.6	315.7	379.1	388.8	402.8	407.3	402.2	397.8	390.0	386.9	384.3
55°	228.6	283.1	340.1	359.3	374.1	379.8	370.2	365.7	354.2	352.3	351.0
57.5°	224.8	235.7	304.3	328.5	346.5	345.9	340.1	331.8	322.1	320.2	319.6
60°	206.3	170.4	265.8	294.6	313.1	311.2	306.2	298.4	289.5	288.2	287.0
62.5°	187.0	123.6	222.2	254.9	281.2	280.5	276.1	264.5	258.1	254.9	252.3
65°	158.8	103.7	158.2	212.0	249.8	251.1	241.4	233.1	226.0	222.2	221.6
67.5°	121.1	84.5	107.0	176.8	219.6	218.4	206.3	202.4	193.4	191.5	187.7
70°	89.7	56.3	74.3	143.4	190.2	187.0	177.4	173.0	164.6	160.2	157.6
72.5°	74.3	45.5	54.4	111.4	160.2	156.2	147.9	142.9	135.8	132.0	129.4
75°	60.2	48.0	41.6	82.6	130.0	127.5	119.8	114.6	108.9	103.7	104.4
77.5°	44.2	44.8	33.3	60.8	103.1	99.3	94.8	88.4	85.9	80.7	80.7
80°	33.3	35.2	25.0	41.6	74.3	74.3	70.5	66.0	61.5	58.9	58.9
82.5°	22.4	22.4	18.5	26.3	50.6	48.7	46.1	44.8	42.3	41.0	41.0
85°	10.2	12.8	11.6	16.0	27.5	28.8	28.8	27.5	26.9	25.6	26.3
87.5°	3.2	5.7	7.1	9.0	14.1	14.7	15.4	15.4	15.4	16.0	16.0
90°	3.0	5.3	7.7	8.3	13.1	19.4	22.5	20.1	15.0	11.3	11.3
92.5°	11.8	32.0	52.0	57.1	80.3	111.3	126.7	111.1	79.7	56.2	54.1
95°	28.5	65.3	102.2	111.4	197.7	312.8	370.3	330.4	250.7	190.9	184.1
97.5°	49.2	81.7	114.1	122.2	266.3	458.2	554.2	529.0	478.6	440.8	427.9
100°	65.1	94.5	124.1	131.4	291.2	504.2	610.7	612.5	616.3	619.0	603.7
102.5°	78.8	106.3	133.7	140.6	302.6	518.8	626.8	658.9	723.0	771.2	758.0
105°	101.8	125.1	148.4	154.2	311.1	520.4	625.0	697.0	840.9	948.8	941.7
107.5°	125.5	147.3	168.9	174.4	312.8	497.2	589.4	689.8	890.5	1041.1	1042.9
110°	141.5	161.1	180.8	185.7	310.4	476.6	559.8	672.0	896.5	1064.8	1072.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.2	175.9	194.5	199.2	310.5	458.8	532.9	647.8	877.5	1049.7	1061.1
115°	180.9	198.1	215.4	219.6	313.3	438.2	500.6	611.3	832.6	998.5	1014.2
117.5°	204.3	219.9	235.6	239.5	319.2	425.3	478.4	578.3	777.9	927.8	945.2
120°	217.9	232.6	247.3	251.1	323.8	421.0	469.5	560.8	743.3	880.1	897.0
122.5°	231.2	246.1	260.9	264.6	330.6	418.7	462.7	544.8	709.2	832.5	849.2
125°	251.6	265.2	278.8	282.1	339.9	416.9	455.3	525.2	664.8	769.4	784.8
127.5°	268.3	281.9	295.6	299.0	349.1	415.8	449.1	509.1	629.0	718.8	731.8
130°	277.1	291.8	306.6	310.3	355.7	416.4	446.7	500.1	606.8	686.8	698.8
132.5°	286.3	301.0	315.7	319.4	361.2	416.9	444.6	492.4	588.0	659.6	670.3
135°	299.9	313.2	326.7	330.0	367.1	416.5	441.1	481.1	561.2	621.1	630.4
137.5°	313.8	327.1	340.4	343.7	376.0	419.1	440.5	474.3	542.0	592.7	600.2
140°	325.4	337.6	349.8	352.9	381.4	419.4	438.4	467.7	526.0	569.8	576.9
142.5°	334.2	345.5	356.8	359.7	385.9	421.0	438.4	464.1	515.4	553.9	560.0
145°	347.8	357.7	367.6	370.1	391.8	421.0	435.5	456.5	498.4	529.9	534.5
147.5°	361.5	371.0	380.7	383.1	400.5	423.8	435.5	452.0	485.0	509.8	513.6
150°	370.3	379.0	387.7	389.9	405.1	425.4	435.5	449.4	477.3	498.2	501.3
152.5°	379.5	386.1	392.7	394.3	408.1	426.3	435.5	447.4	471.2	489.1	491.3
155°	393.2	398.0	402.8	404.1	414.6	428.5	435.5	444.9	463.8	478.1	479.6
157.5°	403.2	408.0	412.8	413.9	421.1	430.7	435.5	442.8	457.5	468.6	469.7
160°	410.0	413.7	417.3	418.3	424.0	431.7	435.5	441.8	454.5	463.9	464.5
162.5°	416.9	419.6	422.4	423.1	427.2	432.7	435.5	440.8	451.4	459.5	460.0
165°	424.2	426.7	429.2	429.8	431.8	434.2	435.5	439.3	446.9	452.7	453.3
167.5°	431.0	432.1	433.4	433.7	435.3	437.4	438.4	440.9	446.0	449.7	450.0
170°	435.5	436.6	437.9	438.2	438.2	438.3	438.4	440.9	446.0	449.7	449.7
172.5°	437.9	438.2	438.3	438.4	438.4	438.4	438.4	440.4	444.4	447.3	447.1
175°	441.1	441.1	441.1	441.1	440.3	439.0	438.4	439.7	442.2	444.1	444.1
177.5°	441.1	441.1	441.1	441.1	440.4	439.5	439.0	440.0	442.0	443.5	443.2
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	694.3	692.4	694.3	692.9	693.6	691.7	686.0	684.1	686.0	687.9	687.9
5°	702.6	701.4	702.6	702.6	701.9	700.7	694.3	692.9	694.3	695.0	693.6
7.5°	705.2	703.3	705.2	703.8	703.8	702.6	696.2	695.0	695.5	697.4	695.5
10°	705.2	703.3	705.2	704.5	703.8	702.6	696.2	693.6	693.6	695.5	693.6
12.5°	701.9	700.7	701.9	700.7	700.7	699.4	692.9	690.5	691.0	691.7	689.1
15°	696.9	695.0	696.9	695.5	696.2	694.3	687.2	684.6	684.6	686.0	681.5
17.5°	689.1	686.5	689.1	688.6	687.9	686.5	680.2	677.7	677.0	677.7	674.4
20°	680.2	678.2	680.2	679.6	679.6	677.0	670.6	667.4	667.4	667.4	664.2
22.5°	666.1	664.2	666.1	667.4	667.4	666.7	661.0	656.5	655.2	655.2	651.4
25°	650.1	648.2	650.1	650.1	649.4	650.1	648.2	645.6	643.7	641.8	637.9
27.5°	634.7	633.5	634.7	633.5	634.7	632.8	632.1	631.5	629.0	627.1	621.9
30°	619.3	618.1	619.3	618.1	616.7	615.5	612.3	611.0	613.6	612.3	603.9
32.5°	600.1	598.9	600.1	600.1	598.9	598.9	593.7	591.8	592.5	596.3	588.6
35°	580.3	578.3	580.3	579.6	580.3	578.3	575.1	574.5	571.9	576.4	570.7
37.5°	557.2	555.3	557.2	557.2	557.2	558.5	555.9	554.0	550.2	555.9	551.4
40°	533.6	531.0	533.6	532.9	533.6	534.8	533.6	532.2	528.4	532.9	529.1
42.5°	506.6	506.0	506.6	507.3	507.3	509.8	511.8	509.2	507.9	504.7	507.3
45°	477.8	476.5	477.8	479.0	479.7	481.0	486.8	486.8	484.9	479.7	483.5
47.5°	447.0	443.9	447.0	450.9	450.9	452.9	458.6	463.1	459.8	453.4	455.3
50°	414.4	415.0	414.4	417.0	417.0	424.0	428.5	433.0	436.1	428.5	419.5
52.5°	382.4	381.7	382.4	384.3	386.9	390.0	397.8	402.2	407.3	402.8	388.8
55°	350.3	351.6	350.3	351.0	352.3	354.2	365.7	370.2	379.8	374.1	359.3
57.5°	318.3	316.4	318.3	319.6	320.2	322.1	331.8	340.1	345.9	346.5	328.5
60°	281.2	278.6	281.2	287.0	288.2	289.5	298.4	306.2	311.2	313.1	294.6
62.5°	248.5	244.0	248.5	252.3	254.9	258.1	264.5	276.1	280.5	281.2	254.9
65°	213.9	212.0	213.9	221.6	222.2	226.0	233.1	241.4	251.1	249.8	212.0
67.5°	182.5	182.5	182.5	187.7	191.5	193.4	202.4	206.3	218.4	219.6	176.8
70°	153.8	153.1	153.8	157.6	160.2	164.6	173.0	177.4	187.0	190.2	143.4
72.5°	126.2	125.5	126.2	129.4	132.0	135.8	142.9	147.9	156.2	160.2	111.4
75°	101.8	100.6	101.8	104.4	103.7	108.9	114.6	119.8	127.5	130.0	82.6
77.5°	78.1	78.1	78.1	80.7	80.7	85.9	88.4	94.8	99.3	103.1	60.8
80°	58.3	57.7	58.3	58.9	58.9	61.5	66.0	70.5	74.3	74.3	41.6
82.5°	41.0	39.7	41.0	41.0	41.0	42.3	44.8	46.1	48.7	50.6	26.3
85°	25.6	25.6	25.6	26.3	25.6	26.9	27.5	28.8	28.8	27.5	16.0
87.5°	16.6	16.0	16.6	16.0	16.0	15.4	15.4	15.4	14.7	14.1	9.0
90°	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.5	19.4	13.1	8.3
92.5°	45.1	36.1	45.1	54.1	56.2	79.7	111.1	126.7	111.3	80.3	57.1
95°	157.1	130.0	157.1	184.1	190.9	250.7	330.4	370.3	312.8	197.7	111.4
97.5°	376.4	324.8	376.4	427.9	440.8	478.6	529.0	554.2	458.2	266.3	122.2
100°	542.2	480.7	542.2	603.7	619.0	616.3	612.5	610.7	504.2	291.2	131.4
102.5°	705.4	652.7	705.4	758.0	771.2	723.0	658.9	626.8	518.8	302.6	140.6
105°	913.5	885.2	913.5	941.7	948.8	840.9	697.0	625.0	520.4	311.1	154.2
107.5°	1049.7	1056.6	1049.7	1042.9	1041.1	890.5	689.8	589.4	497.2	312.8	174.4
110°	1101.7	1131.2	1101.7	1072.2	1064.8	896.5	672.0	559.8	476.6	310.4	185.7



TEST NUMBER: P934702

CATALOG NUMBER: SQ4-FA-075U-050D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1106.4	1151.6	1106.4	1061.1	1049.7	877.5	647.8	532.9	458.8	310.5	199.2
115°	1077.0	1139.8	1077.0	1014.2	998.5	832.6	611.3	500.6	438.2	313.3	219.6
117.5°	1014.8	1084.4	1014.8	945.2	927.8	777.9	578.3	478.4	425.3	319.2	239.5
120°	964.6	1032.3	964.6	897.0	880.1	743.3	560.8	469.5	421.0	323.8	251.1
122.5°	915.8	982.6	915.8	849.2	832.5	709.2	544.8	462.7	418.7	330.6	264.6
125°	846.2	907.6	846.2	784.8	769.4	664.8	525.2	455.3	416.9	339.9	282.1
127.5°	783.6	835.4	783.6	731.8	718.8	629.0	509.1	449.1	415.8	349.1	299.0
130°	746.7	794.6	746.7	698.8	686.8	606.8	500.1	446.7	416.4	355.7	310.3
132.5°	713.2	756.1	713.2	670.3	659.6	588.0	492.4	444.6	416.9	361.2	319.4
135°	667.4	704.3	667.4	630.4	621.1	561.2	481.1	441.1	416.5	367.1	330.0
137.5°	630.5	660.8	630.5	600.2	592.7	542.0	474.3	440.5	419.1	376.0	343.7
140°	605.3	633.5	605.3	576.9	569.8	526.0	467.7	438.4	419.4	381.4	352.9
142.5°	584.3	608.6	584.3	560.0	553.9	515.4	464.1	438.4	421.0	385.9	359.7
145°	552.9	571.4	552.9	534.5	529.9	498.4	456.5	435.5	421.0	391.8	370.1
147.5°	528.9	544.2	528.9	513.6	509.8	485.0	452.0	435.5	423.8	400.5	383.1
150°	513.7	526.1	513.7	501.3	498.2	477.3	449.4	435.5	425.4	405.1	389.9
152.5°	500.7	510.1	500.7	491.3	489.1	471.2	447.4	435.5	426.3	408.1	394.3
155°	485.8	492.0	485.8	479.6	478.1	463.8	444.9	435.5	428.5	414.6	404.1
157.5°	474.1	478.4	474.1	469.7	468.6	457.5	442.8	435.5	430.7	421.1	413.9
160°	467.0	469.5	467.0	464.5	463.9	454.5	441.8	435.5	431.7	424.0	418.3
162.5°	462.4	464.8	462.4	460.0	459.5	451.4	440.8	435.5	432.7	427.2	423.1
165°	455.8	458.3	455.8	453.3	452.7	446.9	439.3	435.5	434.2	431.8	429.8
167.5°	451.0	452.1	451.0	450.0	449.7	446.0	440.9	438.4	437.4	435.3	433.7
170°	449.7	449.7	449.7	449.7	449.7	446.0	440.9	438.4	438.3	438.2	438.2
172.5°	446.2	445.2	446.2	447.1	447.3	444.4	440.4	438.4	438.4	438.4	438.4
175°	444.1	444.1	444.1	444.1	444.1	442.2	439.7	438.4	439.0	440.3	441.1
177.5°	442.2	441.1	442.2	443.2	443.5	442.0	440.0	439.0	439.5	440.4	441.1
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



TEST NUMBER: P934702

CATALOG NUMBER: SQ4-FA-075U-050D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	686.5	682.7	682.7	676.3	673.8	671.8	668.7	659.0	656.5	653.9	657.8
5°	692.4	685.3	680.2	668.7	659.0	655.2	643.0	620.0	604.6	593.1	586.7
7.5°	693.6	684.6	675.1	657.1	634.0	623.8	586.7	544.4	532.9	522.7	516.2
10°	692.4	682.1	668.7	641.8	587.3	569.4	532.2	504.7	497.7	495.7	497.7
12.5°	687.9	678.2	659.7	614.8	538.6	526.5	504.7	488.7	487.4	490.6	507.9
15°	680.2	671.2	649.4	579.0	511.8	502.8	487.4	481.6	488.7	511.1	563.0
17.5°	672.5	662.3	635.4	543.8	491.3	484.9	474.0	485.5	525.2	555.3	572.6
20°	662.3	650.1	619.3	518.2	476.5	470.7	465.7	517.5	547.6	558.5	568.1
22.5°	650.1	637.3	597.5	500.2	461.2	456.7	459.8	535.5	547.6	555.3	563.6
25°	634.0	623.1	571.9	486.1	448.9	443.9	456.0	533.6	540.5	542.4	559.2
27.5°	619.3	605.3	545.0	473.3	434.2	432.3	459.3	525.2	530.3	532.2	550.2
30°	601.4	580.3	514.9	459.8	418.9	418.2	459.8	514.9	513.7	518.8	536.7
32.5°	582.8	543.1	481.0	443.2	404.2	403.5	455.3	499.6	498.3	505.3	518.8
35°	565.6	514.3	434.9	424.0	385.5	386.2	444.5	481.6	482.3	488.7	497.0
37.5°	547.6	489.3	384.3	402.8	367.7	367.7	429.8	465.0	463.7	465.7	477.1
40°	526.5	450.3	339.4	375.3	351.0	349.1	411.8	447.0	442.5	442.0	457.9
42.5°	504.0	407.3	306.2	338.8	331.8	329.2	390.0	425.3	417.0	418.9	439.4
45°	479.7	395.8	280.5	286.3	311.9	310.0	366.3	400.3	394.5	399.7	420.8
47.5°	455.3	372.7	272.2	237.6	290.8	290.1	340.1	376.0	372.7	377.9	400.3
50°	422.1	347.1	271.6	203.7	267.1	269.6	308.8	352.3	352.3	356.8	380.5
52.5°	379.1	315.7	246.6	184.4	239.5	247.2	281.2	331.8	333.0	337.5	358.7
55°	340.1	283.1	228.6	169.7	206.9	223.6	254.2	310.7	313.1	317.6	336.9
57.5°	304.3	235.7	224.8	152.4	176.8	192.8	230.5	290.1	291.4	295.3	313.8
60°	265.8	170.4	206.3	133.9	150.5	162.6	208.8	265.8	270.3	272.8	288.9
62.5°	222.2	123.6	187.0	121.1	137.7	140.3	190.9	242.8	248.5	250.4	260.0
65°	158.2	103.7	158.8	110.2	124.2	124.9	171.6	219.1	224.1	227.4	234.5
67.5°	107.0	84.5	121.1	99.9	114.0	114.6	153.1	191.5	198.5	201.1	205.6
70°	74.3	56.3	89.7	89.0	102.5	103.7	133.2	166.6	173.0	174.9	177.4
72.5°	54.4	45.5	74.3	80.0	90.3	91.6	112.7	138.4	144.8	146.7	147.9
75°	41.6	48.0	60.2	69.8	76.9	77.5	92.3	112.7	117.2	118.5	119.1
77.5°	33.3	44.8	44.2	56.3	62.7	61.5	72.4	87.1	90.9	90.9	90.9
80°	25.0	35.2	33.3	40.4	46.1	44.8	51.9	62.2	63.4	64.7	64.1
82.5°	18.5	22.4	22.4	25.6	30.8	29.5	34.6	40.4	40.4	40.4	41.6
85°	11.6	12.8	10.2	13.5	17.3	16.6	19.2	21.8	22.4	22.4	21.1
87.5°	7.1	5.7	3.2	5.2	7.6	7.6	9.0	9.6	9.0	9.0	9.0
90°	7.7	5.3	3.0	5.3	7.7	8.3	13.1	19.4	22.5	20.1	15.0
92.5°	52.0	32.0	11.8	32.0	52.0	57.1	80.3	111.3	126.7	111.1	79.7
95°	102.2	65.3	28.5	65.3	102.2	111.4	197.7	312.8	370.3	330.4	250.7
97.5°	114.1	81.7	49.2	81.7	114.1	122.2	266.3	458.2	554.2	529.0	478.6
100°	124.1	94.5	65.1	94.5	124.1	131.4	291.2	504.2	610.7	612.5	616.3
102.5°	133.7	106.3	78.8	106.3	133.7	140.6	302.6	518.8	626.8	658.9	723.0
105°	148.4	125.1	101.8	125.1	148.4	154.2	311.1	520.4	625.0	697.0	840.9
107.5°	168.9	147.3	125.5	147.3	168.9	174.4	312.8	497.2	589.4	689.8	890.5
110°	180.8	161.1	141.5	161.1	180.8	185.7	310.4	476.6	559.8	672.0	896.5



TEST NUMBER: P934702

CATALOG NUMBER: SQ4-FA-075U-050D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.5	175.9	157.2	175.9	194.5	199.2	310.5	458.8	532.9	647.8	877.5
115°	215.4	198.1	180.9	198.1	215.4	219.6	313.3	438.2	500.6	611.3	832.6
117.5°	235.6	219.9	204.3	219.9	235.6	239.5	319.2	425.3	478.4	578.3	777.9
120°	247.3	232.6	217.9	232.6	247.3	251.1	323.8	421.0	469.5	560.8	743.3
122.5°	260.9	246.1	231.2	246.1	260.9	264.6	330.6	418.7	462.7	544.8	709.2
125°	278.8	265.2	251.6	265.2	278.8	282.1	339.9	416.9	455.3	525.2	664.8
127.5°	295.6	281.9	268.3	281.9	295.6	299.0	349.1	415.8	449.1	509.1	629.0
130°	306.6	291.8	277.1	291.8	306.6	310.3	355.7	416.4	446.7	500.1	606.8
132.5°	315.7	301.0	286.3	301.0	315.7	319.4	361.2	416.9	444.6	492.4	588.0
135°	326.7	313.2	299.9	313.2	326.7	330.0	367.1	416.5	441.1	481.1	561.2
137.5°	340.4	327.1	313.8	327.1	340.4	343.7	376.0	419.1	440.5	474.3	542.0
140°	349.8	337.6	325.4	337.6	349.8	352.9	381.4	419.4	438.4	467.7	526.0
142.5°	356.8	345.5	334.2	345.5	356.8	359.7	385.9	421.0	438.4	464.1	515.4
145°	367.6	357.7	347.8	357.7	367.6	370.1	391.8	421.0	435.5	456.5	498.4
147.5°	380.7	371.0	361.5	371.0	380.7	383.1	400.5	423.8	435.5	452.0	485.0
150°	387.7	379.0	370.3	379.0	387.7	389.9	405.1	425.4	435.5	449.4	477.3
152.5°	392.7	386.1	379.5	386.1	392.7	394.3	408.1	426.3	435.5	447.4	471.2
155°	402.8	398.0	393.2	398.0	402.8	404.1	414.6	428.5	435.5	444.9	463.8
157.5°	412.8	408.0	403.2	408.0	412.8	413.9	421.1	430.7	435.5	442.8	457.5
160°	417.3	413.7	410.0	413.7	417.3	418.3	424.0	431.7	435.5	441.8	454.5
162.5°	422.4	419.6	416.9	419.6	422.4	423.1	427.2	432.7	435.5	440.8	451.4
165°	429.2	426.7	424.2	426.7	429.2	429.8	431.8	434.2	435.5	439.3	446.9
167.5°	433.4	432.1	431.0	432.1	433.4	433.7	435.3	437.4	438.4	440.9	446.0
170°	437.9	436.6	435.5	436.6	437.9	438.2	438.2	438.3	438.4	440.9	446.0
172.5°	438.3	438.2	437.9	438.2	438.3	438.4	438.4	438.4	438.4	440.4	444.4
175°	441.1	441.1	441.1	441.1	441.1	441.1	440.3	439.0	438.4	439.7	442.2
177.5°	441.1	441.1	441.1	441.1	441.1	441.1	440.4	439.5	439.0	440.0	442.0
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



TEST NUMBER: P934702

CATALOG NUMBER: SQ4-FA-075U-050D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	653.3	651.4	653.9	646.9	653.9	651.4	653.3	657.8	653.9	656.5	659.0
5°	573.2	570.0	559.8	551.4	559.8	570.0	573.2	586.7	593.1	604.6	620.0
7.5°	512.4	509.8	507.3	502.1	507.3	509.8	512.4	516.2	522.7	532.9	544.4
10°	498.9	499.6	503.4	502.8	503.4	499.6	498.9	497.7	495.7	497.7	504.7
12.5°	533.6	539.3	560.4	559.2	560.4	539.3	533.6	507.9	490.6	487.4	488.7
15°	573.2	575.1	579.6	580.3	579.6	575.1	573.2	563.0	511.1	488.7	481.6
17.5°	577.1	577.7	580.9	580.9	580.9	577.7	577.1	572.6	555.3	525.2	485.5
20°	573.9	575.1	581.6	582.8	581.6	575.1	573.9	568.1	558.5	547.6	517.5
22.5°	572.6	575.1	580.3	579.6	580.3	575.1	572.6	563.6	555.3	547.6	535.5
25°	566.2	566.2	566.8	567.5	566.8	566.2	566.2	559.2	542.4	540.5	533.6
27.5°	552.8	554.0	557.8	557.2	557.8	554.0	552.8	550.2	532.2	530.3	525.2
30°	540.5	539.3	536.0	533.6	536.0	539.3	540.5	536.7	518.8	513.7	514.9
32.5°	520.1	516.8	513.7	511.8	513.7	516.8	520.1	518.8	505.3	498.3	499.6
35°	495.7	496.4	495.7	493.8	495.7	496.4	495.7	497.0	488.7	482.3	481.6
37.5°	478.5	479.7	479.0	476.5	479.0	479.7	478.5	477.1	465.7	463.7	465.0
40°	460.5	461.2	460.5	458.6	460.5	461.2	460.5	457.9	442.0	442.5	447.0
42.5°	443.2	442.5	440.6	439.4	440.6	442.5	443.2	439.4	418.9	417.0	425.3
45°	423.4	424.0	420.1	418.2	420.1	424.0	423.4	420.8	399.7	394.5	400.3
47.5°	403.5	403.5	400.3	398.3	400.3	403.5	403.5	400.3	377.9	372.7	376.0
50°	382.4	381.7	377.2	376.6	377.2	381.7	382.4	380.5	356.8	352.3	352.3
52.5°	358.0	358.0	358.7	359.9	358.7	358.0	358.0	358.7	337.5	333.0	331.8
55°	336.9	337.5	342.0	343.3	342.0	337.5	336.9	336.9	317.6	313.1	310.7
57.5°	315.2	315.2	318.3	318.3	318.3	315.2	315.2	313.8	295.3	291.4	290.1
60°	290.1	291.4	293.9	293.4	293.9	291.4	290.1	288.9	272.8	270.3	265.8
62.5°	263.9	265.2	265.8	264.5	265.8	265.2	263.9	260.0	250.4	248.5	242.8
65°	236.4	237.6	238.3	236.9	238.3	237.6	236.4	234.5	227.4	224.1	219.1
67.5°	208.2	207.5	206.9	209.4	206.9	207.5	208.2	205.6	201.1	198.5	191.5
70°	179.3	179.3	178.7	180.0	178.7	179.3	179.3	177.4	174.9	173.0	166.6
72.5°	148.6	147.9	150.5	148.6	150.5	147.9	148.6	147.9	146.7	144.8	138.4
75°	118.5	119.8	118.5	120.4	118.5	119.8	118.5	119.1	118.5	117.2	112.7
77.5°	90.3	91.6	90.3	90.3	90.3	91.6	90.3	90.9	90.9	90.9	87.1
80°	64.1	63.4	63.4	62.7	63.4	63.4	64.1	64.1	64.7	63.4	62.2
82.5°	41.0	40.4	40.4	41.6	40.4	40.4	41.0	41.6	40.4	40.4	40.4
85°	22.4	23.0	21.8	21.8	21.8	23.0	22.4	21.1	22.4	22.4	21.8
87.5°	8.3	7.6	7.6	7.6	7.6	7.6	8.3	9.0	9.0	9.0	9.6
90°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.5	19.4
92.5°	56.2	54.1	45.1	36.1	45.1	54.1	56.2	79.7	111.1	126.7	111.3
95°	190.9	184.1	157.1	130.0	157.1	184.1	190.9	250.7	330.4	370.3	312.8
97.5°	440.8	427.9	376.4	324.8	376.4	427.9	440.8	478.6	529.0	554.2	458.2
100°	619.0	603.7	542.2	480.7	542.2	603.7	619.0	616.3	612.5	610.7	504.2
102.5°	771.2	758.0	705.4	652.7	705.4	758.0	771.2	723.0	658.9	626.8	518.8
105°	948.8	941.7	913.5	885.2	913.5	941.7	948.8	840.9	697.0	625.0	520.4
107.5°	1041.1	1042.9	1049.7	1056.6	1049.7	1042.9	1041.1	890.5	689.8	589.4	497.2
110°	1064.8	1072.2	1101.7	1131.2	1101.7	1072.2	1064.8	896.5	672.0	559.8	476.6



TEST NUMBER: P934702

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1049.7	1061.1	1106.4	1151.6	1106.4	1061.1	1049.7	877.5	647.8	532.9	458.8
115°	998.5	1014.2	1077.0	1139.8	1077.0	1014.2	998.5	832.6	611.3	500.6	438.2
117.5°	927.8	945.2	1014.8	1084.4	1014.8	945.2	927.8	777.9	578.3	478.4	425.3
120°	880.1	897.0	964.6	1032.3	964.6	897.0	880.1	743.3	560.8	469.5	421.0
122.5°	832.5	849.2	915.8	982.6	915.8	849.2	832.5	709.2	544.8	462.7	418.7
125°	769.4	784.8	846.2	907.6	846.2	784.8	769.4	664.8	525.2	455.3	416.9
127.5°	718.8	731.8	783.6	835.4	783.6	731.8	718.8	629.0	509.1	449.1	415.8
130°	686.8	698.8	746.7	794.6	746.7	698.8	686.8	606.8	500.1	446.7	416.4
132.5°	659.6	670.3	713.2	756.1	713.2	670.3	659.6	588.0	492.4	444.6	416.9
135°	621.1	630.4	667.4	704.3	667.4	630.4	621.1	561.2	481.1	441.1	416.5
137.5°	592.7	600.2	630.5	660.8	630.5	600.2	592.7	542.0	474.3	440.5	419.1
140°	569.8	576.9	605.3	633.5	605.3	576.9	569.8	526.0	467.7	438.4	419.4
142.5°	553.9	560.0	584.3	608.6	584.3	560.0	553.9	515.4	464.1	438.4	421.0
145°	529.9	534.5	552.9	571.4	552.9	534.5	529.9	498.4	456.5	435.5	421.0
147.5°	509.8	513.6	528.9	544.2	528.9	513.6	509.8	485.0	452.0	435.5	423.8
150°	498.2	501.3	513.7	526.1	513.7	501.3	498.2	477.3	449.4	435.5	425.4
152.5°	489.1	491.3	500.7	510.1	500.7	491.3	489.1	471.2	447.4	435.5	426.3
155°	478.1	479.6	485.8	492.0	485.8	479.6	478.1	463.8	444.9	435.5	428.5
157.5°	468.6	469.7	474.1	478.4	474.1	469.7	468.6	457.5	442.8	435.5	430.7
160°	463.9	464.5	467.0	469.5	467.0	464.5	463.9	454.5	441.8	435.5	431.7
162.5°	459.5	460.0	462.4	464.8	462.4	460.0	459.5	451.4	440.8	435.5	432.7
165°	452.7	453.3	455.8	458.3	455.8	453.3	452.7	446.9	439.3	435.5	434.2
167.5°	449.7	450.0	451.0	452.1	451.0	450.0	449.7	446.0	440.9	438.4	437.4
170°	449.7	449.7	449.7	449.7	449.7	449.7	449.7	446.0	440.9	438.4	438.3
172.5°	447.3	447.1	446.2	445.2	446.2	447.1	447.3	444.4	440.4	438.4	438.4
175°	444.1	444.1	444.1	444.1	444.1	444.1	444.1	442.2	439.7	438.4	439.0
177.5°	443.5	443.2	442.2	441.1	442.2	443.2	443.5	442.0	440.0	439.0	439.5
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	677.0	677.0	677.0	677.0	677.0
2.5°	668.7	671.8	673.8	676.3	682.7
5°	643.0	655.2	659.0	668.7	680.2
7.5°	586.7	623.8	634.0	657.1	675.1
10°	532.2	569.4	587.3	641.8	668.7
12.5°	504.7	526.5	538.6	614.8	659.7
15°	487.4	502.8	511.8	579.0	649.4
17.5°	474.0	484.9	491.3	543.8	635.4
20°	465.7	470.7	476.5	518.2	619.3
22.5°	459.8	456.7	461.2	500.2	597.5
25°	456.0	443.9	448.9	486.1	571.9
27.5°	459.3	432.3	434.2	473.3	545.0
30°	459.8	418.2	418.9	459.8	514.9
32.5°	455.3	403.5	404.2	443.2	481.0
35°	444.5	386.2	385.5	424.0	434.9
37.5°	429.8	367.7	367.7	402.8	384.3
40°	411.8	349.1	351.0	375.3	339.4
42.5°	390.0	329.2	331.8	338.8	306.2
45°	366.3	310.0	311.9	286.3	280.5
47.5°	340.1	290.1	290.8	237.6	272.2
50°	308.8	269.6	267.1	203.7	271.6
52.5°	281.2	247.2	239.5	184.4	246.6
55°	254.2	223.6	206.9	169.7	228.6
57.5°	230.5	192.8	176.8	152.4	224.8
60°	208.8	162.6	150.5	133.9	206.3
62.5°	190.9	140.3	137.7	121.1	187.0
65°	171.6	124.9	124.2	110.2	158.8
67.5°	153.1	114.6	114.0	99.9	121.1
70°	133.2	103.7	102.5	89.0	89.7
72.5°	112.7	91.6	90.3	80.0	74.3
75°	92.3	77.5	76.9	69.8	60.2
77.5°	72.4	61.5	62.7	56.3	44.2
80°	51.9	44.8	46.1	40.4	33.3
82.5°	34.6	29.5	30.8	25.6	22.4
85°	19.2	16.6	17.3	13.5	10.2
87.5°	9.0	7.6	7.6	5.2	3.2
90°	13.1	8.3	7.7	5.3	3.0
92.5°	80.3	57.1	52.0	32.0	11.8
95°	197.7	111.4	102.2	65.3	28.5
97.5°	266.3	122.2	114.1	81.7	49.2
100°	291.2	131.4	124.1	94.5	65.1
102.5°	302.6	140.6	133.7	106.3	78.8
105°	311.1	154.2	148.4	125.1	101.8
107.5°	312.8	174.4	168.9	147.3	125.5
110°	310.4	185.7	180.8	161.1	141.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.5	199.2	194.5	175.9	157.2
115°	313.3	219.6	215.4	198.1	180.9
117.5°	319.2	239.5	235.6	219.9	204.3
120°	323.8	251.1	247.3	232.6	217.9
122.5°	330.6	264.6	260.9	246.1	231.2
125°	339.9	282.1	278.8	265.2	251.6
127.5°	349.1	299.0	295.6	281.9	268.3
130°	355.7	310.3	306.6	291.8	277.1
132.5°	361.2	319.4	315.7	301.0	286.3
135°	367.1	330.0	326.7	313.2	299.9
137.5°	376.0	343.7	340.4	327.1	313.8
140°	381.4	352.9	349.8	337.6	325.4
142.5°	385.9	359.7	356.8	345.5	334.2
145°	391.8	370.1	367.6	357.7	347.8
147.5°	400.5	383.1	380.7	371.0	361.5
150°	405.1	389.9	387.7	379.0	370.3
152.5°	408.1	394.3	392.7	386.1	379.5
155°	414.6	404.1	402.8	398.0	393.2
157.5°	421.1	413.9	412.8	408.0	403.2
160°	424.0	418.3	417.3	413.7	410.0
162.5°	427.2	423.1	422.4	419.6	416.9
165°	431.8	429.8	429.2	426.7	424.2
167.5°	435.3	433.7	433.4	432.1	431.0
170°	438.2	438.2	437.9	436.6	435.5
172.5°	438.4	438.4	438.3	438.2	437.9
175°	440.3	441.1	441.1	441.1	441.1
177.5°	440.4	441.1	441.1	441.1	441.1
180°	441.1	441.1	441.1	441.1	441.1



TEST NUMBER: P934702
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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	9.96	10.73	11.02	11.78	13.22	12.76	13.52	13.81	14.58	16.01
	3H	10.43	11.12	11.50	12.18	13.63	14.09	14.77	15.15	15.84	17.29
	4H	10.62	11.27	11.69	12.33	13.79	14.52	15.17	15.59	16.24	17.69
	6H	10.73	11.33	11.82	12.40	13.87	14.79	15.39	15.88	16.46	17.93
	8H	10.73	11.30	11.82	12.39	13.85	14.86	15.43	15.95	16.52	17.98
	12H	10.70	11.24	11.79	12.32	13.81	14.89	15.43	15.98	16.51	18.00
4H	2H	10.98	11.62	12.06	12.69	14.15	13.16	13.81	14.24	14.87	16.33
	3H	11.99	12.53	13.08	13.63	15.10	14.65	15.19	15.73	16.28	17.75
	4H	12.26	12.76	13.36	13.84	15.34	15.16	15.66	16.26	16.74	18.23
	6H	12.38	12.81	13.49	13.92	15.40	15.51	15.94	16.62	17.05	18.53
	8H	12.39	12.78	13.49	13.88	15.39	15.61	16.01	16.72	17.11	18.61
	12H	12.35	12.71	13.47	13.82	15.33	15.66	16.02	16.78	17.13	18.64
8H	4H	12.70	13.10	13.81	14.20	15.70	15.28	15.68	16.38	16.78	18.28
	6H	12.96	13.29	14.09	14.43	15.93	15.70	16.03	16.83	17.17	18.67
	8H	13.00	13.29	14.13	14.41	15.93	15.85	16.14	16.98	17.26	18.78
	12H	12.98	13.24	14.12	14.36	15.91	15.94	16.19	17.07	17.31	18.87
12H	4H	12.71	13.06	13.82	14.18	15.68	15.24	15.60	16.36	16.71	18.22
	6H	13.02	13.31	14.15	14.43	15.95	15.70	15.99	16.83	17.11	18.63
	8H	13.08	13.33	14.22	14.46	16.01	15.85	16.10	16.99	17.22	18.78