

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: P934802

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934802
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-075D-B40-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

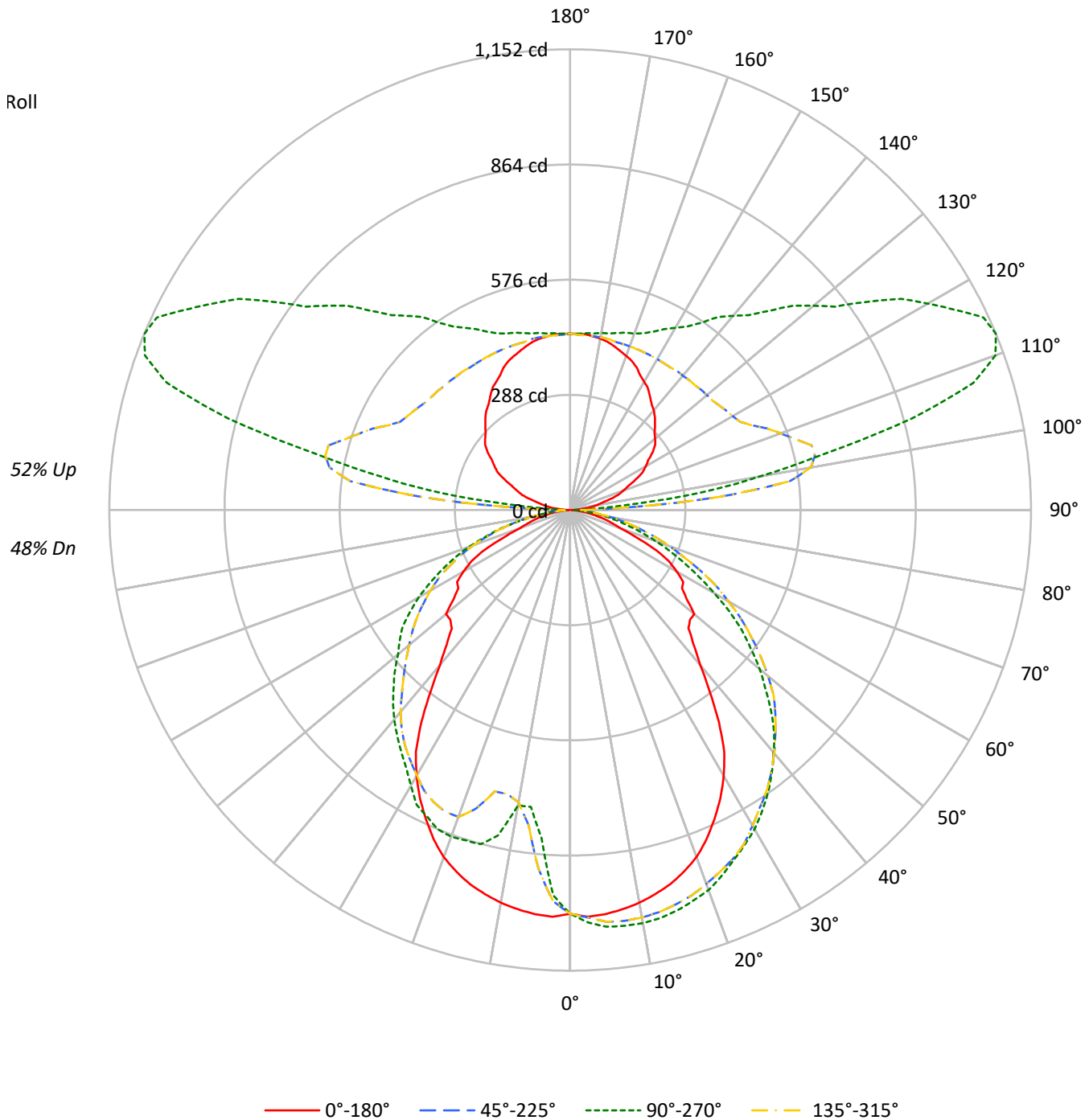
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5478.8 lumens
Efficiency: N/A
Efficacy: 129.2 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: General Diffuse

Input Watts (W): 42.4
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





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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9367	9367	9367	9367
5°	9427	9457	9427	7436
10°	9354	9316	9354	6660
15°	9242	9114	9242	7609
20°	9038	8874	9038	7625
25°	8632	8526	8632	7464
30°	8111	8236	8111	7109
35°	7220	7870	7220	6719
40°	6006	7439	6006	6425
45°	5357	6934	5357	6086
50°	5677	6332	5677	5746
55°	5326	5684	5326	5550
60°	5470	4828	5470	5083
65°	4935	3990	4935	4461
70°	3394	3179	3394	3739
75°	2945	2350	2945	2814
80°	2326	1555	2326	1692
85°	1267	823	1267	700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8225 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	1.7
10°-20°	258.7	4.7
20°-30°	400.0	7.3
30°-40°	477.5	8.7
40°-50°	480.3	8.8
50°-60°	417.9	7.6
60°-70°	296.3	5.4
70°-80°	156.7	2.9
80°-90°	40.7	0.7
90°-100°	215.0	3.9
100°-110°	565.3	10.3
110°-120°	586.1	10.7
120°-130°	470.2	8.6
130°-140°	368.9	6.7
140°-150°	283.1	5.2
150°-160°	203.9	3.7
160°-170°	124.8	2.3
170°-180°	42.2	0.8
0°-30°	749.8	13.7
0°-40°	1227.3	22.4
0°-60°	2125.6	38.8
0°-90°	2619.3	47.8
90°-120°	1366.5	24.9
90°-150°	2488.7	45.4
90°-180°	2860.0	52.2
0°-180°	5478.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1010	1010	1010	1010	1010	
5°	1014	1046	1014	822	1014	96
15°	968	1036	968	865	968	272
25°	853	967	853	846	853	392
35°	648	862	648	736	648	401
45°	418	711	418	624	418	335
55°	341	524	341	512	341	313
65°	237	316	237	353	237	226
75°	90	150	90	180	90	94
85°	15	38	15	32	15	21
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°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1018.1	1018.1	1024.0	1025.9	1025.9	1023.0	1020.1	1023.0	1031.6	1034.5	1033.5
5°	1014.3	1022.0	1032.5	1034.5	1036.4	1035.4	1033.5	1035.4	1045.0	1046.9	1047.8
7.5°	1006.7	1021.1	1034.5	1037.3	1040.2	1037.3	1036.4	1038.3	1047.8	1049.7	1049.7
10°	997.1	1017.2	1032.5	1034.5	1037.3	1034.5	1034.5	1038.3	1047.8	1049.7	1050.7
12.5°	983.7	1011.4	1025.9	1027.8	1031.6	1030.6	1029.7	1033.5	1043.1	1045.0	1045.0
15°	968.5	1000.9	1014.3	1016.2	1023.0	1021.1	1021.1	1024.9	1035.4	1038.3	1037.3
17.5°	947.5	987.6	1002.8	1005.7	1010.5	1009.5	1010.5	1014.3	1024.0	1025.9	1026.8
20°	923.6	969.4	987.6	990.4	995.2	995.2	995.2	1000.0	1009.5	1013.4	1013.4
22.5°	891.1	950.3	969.4	971.3	977.1	977.1	979.0	985.7	994.3	995.2	995.2
25°	852.9	929.3	945.5	951.3	957.0	959.9	962.7	966.6	969.4	968.5	969.4
27.5°	812.8	902.6	923.6	927.4	935.0	937.9	941.7	942.7	943.6	946.5	944.6
30°	767.9	865.3	896.8	900.7	913.1	915.0	911.2	913.1	917.9	919.8	921.7
32.5°	717.3	809.9	869.1	877.7	889.2	883.5	882.5	885.4	893.0	893.0	894.9
35°	648.5	767.0	843.4	851.0	859.6	852.9	856.7	857.7	862.5	865.3	864.4
37.5°	573.1	729.7	816.6	822.4	829.0	820.4	826.2	829.0	832.9	830.9	830.9
40°	506.2	671.5	785.1	788.9	794.7	788.0	793.7	795.6	797.5	795.6	794.7
42.5°	456.6	607.5	751.7	756.5	752.6	757.4	759.3	763.1	760.3	756.5	756.5
45°	418.4	590.3	715.4	721.1	715.4	723.0	725.9	725.9	717.3	715.4	714.4
47.5°	406.0	555.9	679.1	679.1	676.2	685.8	690.6	683.9	675.3	672.4	672.4
50°	405.0	517.7	629.4	625.6	639.0	650.5	645.7	639.0	632.3	621.8	621.8
52.5°	367.8	470.9	565.5	579.8	600.8	607.5	599.8	593.2	581.7	576.9	573.1
55°	341.0	422.2	507.2	535.9	557.8	566.4	552.1	545.4	528.2	525.3	523.4
57.5°	335.2	351.5	453.7	490.0	516.8	515.8	507.2	494.8	480.5	477.6	476.6
60°	307.5	254.0	396.4	439.4	467.1	464.2	456.6	445.1	431.8	429.8	427.9
62.5°	278.9	184.3	331.4	380.2	419.3	418.4	411.7	394.5	385.0	380.2	376.4
65°	236.8	154.7	235.9	316.1	372.5	374.5	360.1	347.7	337.1	331.4	330.4
67.5°	180.5	126.1	159.5	263.6	327.6	325.7	307.5	301.8	288.4	285.5	279.8
70°	133.7	84.0	110.8	213.9	283.6	278.9	264.5	257.8	245.4	238.8	234.9
72.5°	110.8	67.8	81.2	166.2	238.8	233.0	220.6	213.0	202.5	196.7	192.9
75°	89.8	71.6	62.1	123.2	193.9	190.0	178.6	170.9	162.4	154.7	155.7
77.5°	65.9	66.8	49.7	90.7	153.8	148.0	141.3	131.8	128.0	120.3	120.3
80°	49.7	52.5	37.2	62.1	110.8	110.8	105.0	98.4	91.7	87.9	87.9
82.5°	33.4	33.4	27.7	39.2	75.4	72.6	68.8	66.8	63.0	61.1	61.1
85°	15.3	19.1	17.2	23.9	41.1	43.0	43.0	41.1	40.1	38.2	39.2
87.5°	4.8	8.6	10.5	13.4	21.0	22.0	22.9	22.9	22.9	23.9	23.9
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°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1035.4	1032.5	1035.4	1033.5	1034.5	1031.6	1023.0	1020.1	1023.0	1025.9	1025.9
5°	1047.8	1045.9	1047.8	1047.8	1046.9	1045.0	1035.4	1033.5	1035.4	1036.4	1034.5
7.5°	1051.6	1048.8	1051.6	1049.7	1049.7	1047.8	1038.3	1036.4	1037.3	1040.2	1037.3
10°	1051.6	1048.8	1051.6	1050.7	1049.7	1047.8	1038.3	1034.5	1034.5	1037.3	1034.5
12.5°	1046.9	1045.0	1046.9	1045.0	1045.0	1043.1	1033.5	1029.7	1030.6	1031.6	1027.8
15°	1039.2	1036.4	1039.2	1037.3	1038.3	1035.4	1024.9	1021.1	1021.1	1023.0	1016.2
17.5°	1027.8	1024.0	1027.8	1026.8	1025.9	1024.0	1014.3	1010.5	1009.5	1010.5	1005.7
20°	1014.3	1011.4	1014.3	1013.4	1013.4	1009.5	1000.0	995.2	995.2	995.2	990.4
22.5°	993.3	990.4	993.3	995.2	995.2	994.3	985.7	979.0	977.1	977.1	971.3
25°	969.4	966.6	969.4	969.4	968.5	969.4	966.6	962.7	959.9	957.0	951.3
27.5°	946.5	944.6	946.5	944.6	946.5	943.6	942.7	941.7	937.9	935.0	927.4
30°	923.6	921.7	923.6	921.7	919.8	917.9	913.1	911.2	915.0	913.1	900.7
32.5°	894.9	893.0	894.9	894.9	893.0	893.0	885.4	882.5	883.5	889.2	877.7
35°	865.3	862.5	865.3	864.4	865.3	862.5	857.7	856.7	852.9	859.6	851.0
37.5°	830.9	828.1	830.9	830.9	830.9	832.9	829.0	826.2	820.4	829.0	822.4
40°	795.6	791.8	795.6	794.7	795.6	797.5	795.6	793.7	788.0	794.7	788.9
42.5°	755.5	754.5	755.5	756.5	756.5	760.3	763.1	759.3	757.4	752.6	756.5
45°	712.5	710.6	712.5	714.4	715.4	717.3	725.9	725.9	723.0	715.4	721.1
47.5°	666.7	661.9	666.7	672.4	672.4	675.3	683.9	690.6	685.8	676.2	679.1
50°	618.0	618.9	618.0	621.8	621.8	632.3	639.0	645.7	650.5	639.0	625.6
52.5°	570.2	569.3	570.2	573.1	576.9	581.7	593.2	599.8	607.5	600.8	579.8
55°	522.5	524.4	522.5	523.4	525.3	528.2	545.4	552.1	566.4	557.8	535.9
57.5°	474.7	471.9	474.7	476.6	477.6	480.5	494.8	507.2	515.8	516.8	490.0
60°	419.3	415.5	419.3	427.9	429.8	431.8	445.1	456.6	464.2	467.1	439.4
62.5°	370.6	364.0	370.6	376.4	380.2	385.0	394.5	411.7	418.4	419.3	380.2
65°	319.0	316.1	319.0	330.4	331.4	337.1	347.7	360.1	374.5	372.5	316.1
67.5°	272.2	272.2	272.2	279.8	285.5	288.4	301.8	307.5	325.7	327.6	263.6
70°	229.2	228.2	229.2	234.9	238.8	245.4	257.8	264.5	278.9	283.6	213.9
72.5°	188.1	187.2	188.1	192.9	196.7	202.5	213.0	220.6	233.0	238.8	166.2
75°	151.8	149.9	151.8	155.7	154.7	162.4	170.9	178.6	190.0	193.9	123.2
77.5°	116.5	116.5	116.5	120.3	120.3	128.0	131.8	141.3	148.0	153.8	90.7
80°	86.9	86.0	86.9	87.9	87.9	91.7	98.4	105.0	110.8	110.8	62.1
82.5°	61.1	59.2	61.1	61.1	61.1	63.0	66.8	68.8	72.6	75.4	39.2
85°	38.2	38.2	38.2	39.2	38.2	40.1	41.1	43.0	43.0	41.1	23.9
87.5°	24.8	23.9	24.8	23.9	23.9	22.9	22.9	22.9	22.0	21.0	13.4
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: P934802

CATALOG NUMBER: SQ4-FA-075U-075D-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: P934802

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

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1024.0	1018.1	1018.1	1008.6	1004.8	1001.9	997.1	982.8	979.0	975.2	980.9
5°	1032.5	1022.0	1014.3	997.1	982.8	977.1	958.9	924.5	901.6	884.4	874.9
7.5°	1034.5	1021.1	1006.7	979.9	945.5	930.3	874.9	811.8	794.7	779.4	769.8
10°	1032.5	1017.2	997.1	957.0	875.8	849.1	793.7	752.6	742.1	739.3	742.1
12.5°	1025.9	1011.4	983.7	916.9	803.3	785.1	752.6	728.8	726.9	731.6	757.4
15°	1014.3	1000.9	968.5	863.4	763.1	749.8	726.9	718.3	728.8	762.2	839.5
17.5°	1002.8	987.6	947.5	810.9	732.6	723.0	706.8	724.0	783.2	828.1	853.9
20°	987.6	969.4	923.6	772.7	710.6	702.0	694.4	771.7	816.6	832.9	847.2
22.5°	969.4	950.3	891.1	746.0	687.7	681.0	685.8	798.5	816.6	828.1	840.5
25°	945.5	929.3	852.9	724.9	669.6	661.9	680.1	795.6	806.1	809.0	833.8
27.5°	923.6	902.6	812.8	705.8	647.6	644.7	684.8	783.2	790.8	793.7	820.4
30°	896.8	865.3	767.9	685.8	624.7	623.7	685.8	767.9	766.0	773.6	800.4
32.5°	869.1	809.9	717.3	661.0	602.7	601.7	679.1	745.0	743.1	753.6	773.6
35°	843.4	767.0	648.5	632.3	575.0	576.0	662.9	718.3	719.2	728.8	741.2
37.5°	816.6	729.7	573.1	600.8	548.3	548.3	640.9	693.4	691.5	694.4	711.6
40°	785.1	671.5	506.2	559.7	523.4	520.6	614.2	666.7	660.0	659.0	682.9
42.5°	751.7	607.5	456.6	505.3	494.8	491.0	581.7	634.2	621.8	624.7	655.2
45°	715.4	590.3	418.4	427.0	465.2	462.3	546.4	597.0	588.4	596.0	627.5
47.5°	679.1	555.9	406.0	354.4	433.7	432.7	507.2	560.7	555.9	563.5	597.0
50°	629.4	517.7	405.0	303.7	398.3	402.2	460.4	525.3	525.3	532.0	567.4
52.5°	565.5	470.9	367.8	275.0	357.3	368.7	419.3	494.8	496.7	503.4	534.9
55°	507.2	422.2	341.0	253.1	308.5	333.3	379.2	463.3	467.1	473.8	502.4
57.5°	453.7	351.5	335.2	227.3	263.6	287.5	343.9	432.7	434.6	440.4	468.0
60°	396.4	254.0	307.5	199.6	224.4	242.6	311.3	396.4	403.1	406.9	430.8
62.5°	331.4	184.3	278.9	180.5	205.3	209.1	284.6	362.0	370.6	373.5	387.8
65°	235.9	154.7	236.8	164.3	185.3	186.2	255.9	326.6	334.2	339.0	349.6
67.5°	159.5	126.1	180.5	149.0	170.0	170.9	228.2	285.5	296.0	299.9	306.6
70°	110.8	84.0	133.7	132.7	152.8	154.7	198.6	248.3	257.8	260.7	264.5
72.5°	81.2	67.8	110.8	119.4	134.7	136.6	168.1	206.3	215.8	218.7	220.6
75°	62.1	71.6	89.8	104.1	114.6	115.6	137.5	168.1	174.8	176.7	177.6
77.5°	49.7	66.8	65.9	84.0	93.6	91.7	107.9	129.9	135.6	135.6	135.6
80°	37.2	52.5	49.7	60.2	68.8	66.8	77.4	92.6	94.5	96.5	95.5
82.5°	27.7	33.4	33.4	38.2	45.8	43.9	51.6	60.2	60.2	60.2	62.1
85°	17.2	19.1	15.3	20.1	25.8	24.8	28.6	32.5	33.4	33.4	31.5
87.5°	10.5	8.6	4.8	7.6	11.5	11.5	13.4	14.3	13.4	13.4	13.4
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: P934802

CATALOG NUMBER: SQ4-FA-075U-075D-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: P934802
 CATALOG NUMBER: SQ4-FA-075U-075D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	974.2	971.3	975.2	964.6	975.2	971.3	974.2	980.9	975.2	979.0	982.8
5°	854.8	850.0	834.8	822.4	834.8	850.0	854.8	874.9	884.4	901.6	924.5
7.5°	764.1	760.3	756.5	748.8	756.5	760.3	764.1	769.8	779.4	794.7	811.8
10°	744.0	745.0	750.7	749.8	750.7	745.0	744.0	742.1	739.3	742.1	752.6
12.5°	795.6	804.2	835.7	833.8	835.7	804.2	795.6	757.4	731.6	726.9	728.8
15°	854.8	857.7	864.4	865.3	864.4	857.7	854.8	839.5	762.2	728.8	718.3
17.5°	860.6	861.5	866.3	866.3	866.3	861.5	860.6	853.9	828.1	783.2	724.0
20°	855.8	857.7	867.2	869.1	867.2	857.7	855.8	847.2	832.9	816.6	771.7
22.5°	853.9	857.7	865.3	864.4	865.3	857.7	853.9	840.5	828.1	816.6	798.5
25°	844.3	844.3	845.3	846.2	845.3	844.3	844.3	833.8	809.0	806.1	795.6
27.5°	824.3	826.2	831.9	830.9	831.9	826.2	824.3	820.4	793.7	790.8	783.2
30°	806.1	804.2	799.4	795.6	799.4	804.2	806.1	800.4	773.6	766.0	767.9
32.5°	775.6	770.8	766.0	763.1	766.0	770.8	775.6	773.6	753.6	743.1	745.0
35°	739.3	740.2	739.3	736.4	739.3	740.2	739.3	741.2	728.8	719.2	718.3
37.5°	713.5	715.4	714.4	710.6	714.4	715.4	713.5	711.6	694.4	691.5	693.4
40°	686.7	687.7	686.7	683.9	686.7	687.7	686.7	682.9	659.0	660.0	666.7
42.5°	661.0	660.0	657.1	655.2	657.1	660.0	661.0	655.2	624.7	621.8	634.2
45°	631.4	632.3	626.6	623.7	626.6	632.3	631.4	627.5	596.0	588.4	597.0
47.5°	601.7	601.7	597.0	594.1	597.0	601.7	601.7	597.0	563.5	555.9	560.7
50°	570.2	569.3	562.6	561.6	562.6	569.3	570.2	567.4	532.0	525.3	525.3
52.5°	533.9	533.9	534.9	536.8	534.9	533.9	533.9	534.9	503.4	496.7	494.8
55°	502.4	503.4	510.1	512.0	510.1	503.4	502.4	502.4	473.8	467.1	463.3
57.5°	470.0	470.0	474.7	474.7	474.7	470.0	470.0	468.0	440.4	434.6	432.7
60°	432.7	434.6	438.4	437.5	438.4	434.6	432.7	430.8	406.9	403.1	396.4
62.5°	393.6	395.5	396.4	394.5	396.4	395.5	393.6	387.8	373.5	370.6	362.0
65°	352.5	354.4	355.4	353.4	355.4	354.4	352.5	349.6	339.0	334.2	326.6
67.5°	310.4	309.4	308.5	312.3	308.5	309.4	310.4	306.6	299.9	296.0	285.5
70°	267.4	267.4	266.4	268.4	266.4	267.4	267.4	264.5	260.7	257.8	248.3
72.5°	221.6	220.6	224.4	221.6	224.4	220.6	221.6	220.6	218.7	215.8	206.3
75°	176.7	178.6	176.7	179.5	176.7	178.6	176.7	177.6	176.7	174.8	168.1
77.5°	134.7	136.6	134.7	134.7	134.7	136.6	134.7	135.6	135.6	135.6	129.9
80°	95.5	94.5	94.5	93.6	94.5	94.5	95.5	95.5	96.5	94.5	92.6
82.5°	61.1	60.2	60.2	62.1	60.2	60.2	61.1	62.1	60.2	60.2	60.2
85°	33.4	34.4	32.5	32.5	32.5	34.4	33.4	31.5	33.4	33.4	32.5
87.5°	12.4	11.5	11.5	11.5	11.5	11.5	12.4	13.4	13.4	13.4	14.3
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: P934802

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

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



TEST NUMBER: P934802
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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	997.1	1001.9	1004.8	1008.6	1018.1
5°	958.9	977.1	982.8	997.1	1014.3
7.5°	874.9	930.3	945.5	979.9	1006.7
10°	793.7	849.1	875.8	957.0	997.1
12.5°	752.6	785.1	803.3	916.9	983.7
15°	726.9	749.8	763.1	863.4	968.5
17.5°	706.8	723.0	732.6	810.9	947.5
20°	694.4	702.0	710.6	772.7	923.6
22.5°	685.8	681.0	687.7	746.0	891.1
25°	680.1	661.9	669.6	724.9	852.9
27.5°	684.8	644.7	647.6	705.8	812.8
30°	685.8	623.7	624.7	685.8	767.9
32.5°	679.1	601.7	602.7	661.0	717.3
35°	662.9	576.0	575.0	632.3	648.5
37.5°	640.9	548.3	548.3	600.8	573.1
40°	614.2	520.6	523.4	559.7	506.2
42.5°	581.7	491.0	494.8	505.3	456.6
45°	546.4	462.3	465.2	427.0	418.4
47.5°	507.2	432.7	433.7	354.4	406.0
50°	460.4	402.2	398.3	303.7	405.0
52.5°	419.3	368.7	357.3	275.0	367.8
55°	379.2	333.3	308.5	253.1	341.0
57.5°	343.9	287.5	263.6	227.3	335.2
60°	311.3	242.6	224.4	199.6	307.5
62.5°	284.6	209.1	205.3	180.5	278.9
65°	255.9	186.2	185.3	164.3	236.8
67.5°	228.2	170.9	170.0	149.0	180.5
70°	198.6	154.7	152.8	132.7	133.7
72.5°	168.1	136.6	134.7	119.4	110.8
75°	137.5	115.6	114.6	104.1	89.8
77.5°	107.9	91.7	93.6	84.0	65.9
80°	77.4	66.8	68.8	60.2	49.7
82.5°	51.6	43.9	45.8	38.2	33.4
85°	28.6	24.8	25.8	20.1	15.3
87.5°	13.4	11.5	11.5	7.6	4.8
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



TEST NUMBER: P934802

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

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: P934802
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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	12.36	13.20	13.34	14.19	15.49	15.16	16.00	16.13	16.99	18.29
	3H	12.84	13.59	13.82	14.59	15.91	16.49	17.25	17.48	18.24	19.57
	4H	13.03	13.74	14.03	14.74	16.07	16.93	17.64	17.93	18.64	19.98
	6H	13.14	13.80	14.16	14.81	16.15	17.20	17.86	18.21	18.87	20.21
	8H	13.15	13.77	14.16	14.79	16.14	17.27	17.90	18.29	18.92	20.26
	12H	13.12	13.71	14.14	14.73	16.09	17.31	17.90	18.33	18.92	20.29
4H	2H	13.38	14.10	14.39	15.10	16.43	15.57	16.28	16.57	17.28	18.61
	3H	14.41	15.00	15.42	16.03	17.38	17.06	17.66	18.08	18.69	20.03
	4H	14.68	15.23	15.71	16.25	17.62	17.58	18.12	18.60	19.15	20.52
	6H	14.81	15.28	15.84	16.32	17.69	17.94	18.40	18.97	19.45	20.82
	8H	14.81	15.25	15.85	16.29	17.67	18.04	18.48	19.07	19.51	20.89
	12H	14.78	15.17	15.83	16.23	17.61	18.09	18.48	19.14	19.54	20.92
8H	4H	15.13	15.57	16.16	16.61	17.99	17.70	18.14	18.74	19.18	20.56
	6H	15.39	15.75	16.45	16.83	18.21	18.13	18.49	19.19	19.57	20.95
	8H	15.43	15.75	16.50	16.82	18.21	18.28	18.60	19.35	19.66	21.06
	12H	15.42	15.70	16.49	16.76	18.19	18.37	18.65	19.44	19.71	21.15
12H	4H	15.13	15.53	16.19	16.58	17.97	17.67	18.06	18.72	19.12	20.50
	6H	15.45	15.77	16.52	16.83	18.23	18.13	18.45	19.20	19.51	20.91
	8H	15.52	15.79	16.59	16.86	18.29	18.28	18.56	19.35	19.62	21.06