

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: P934710

Luminaire Tested: SQ4-FA-075U-075D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934710
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-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

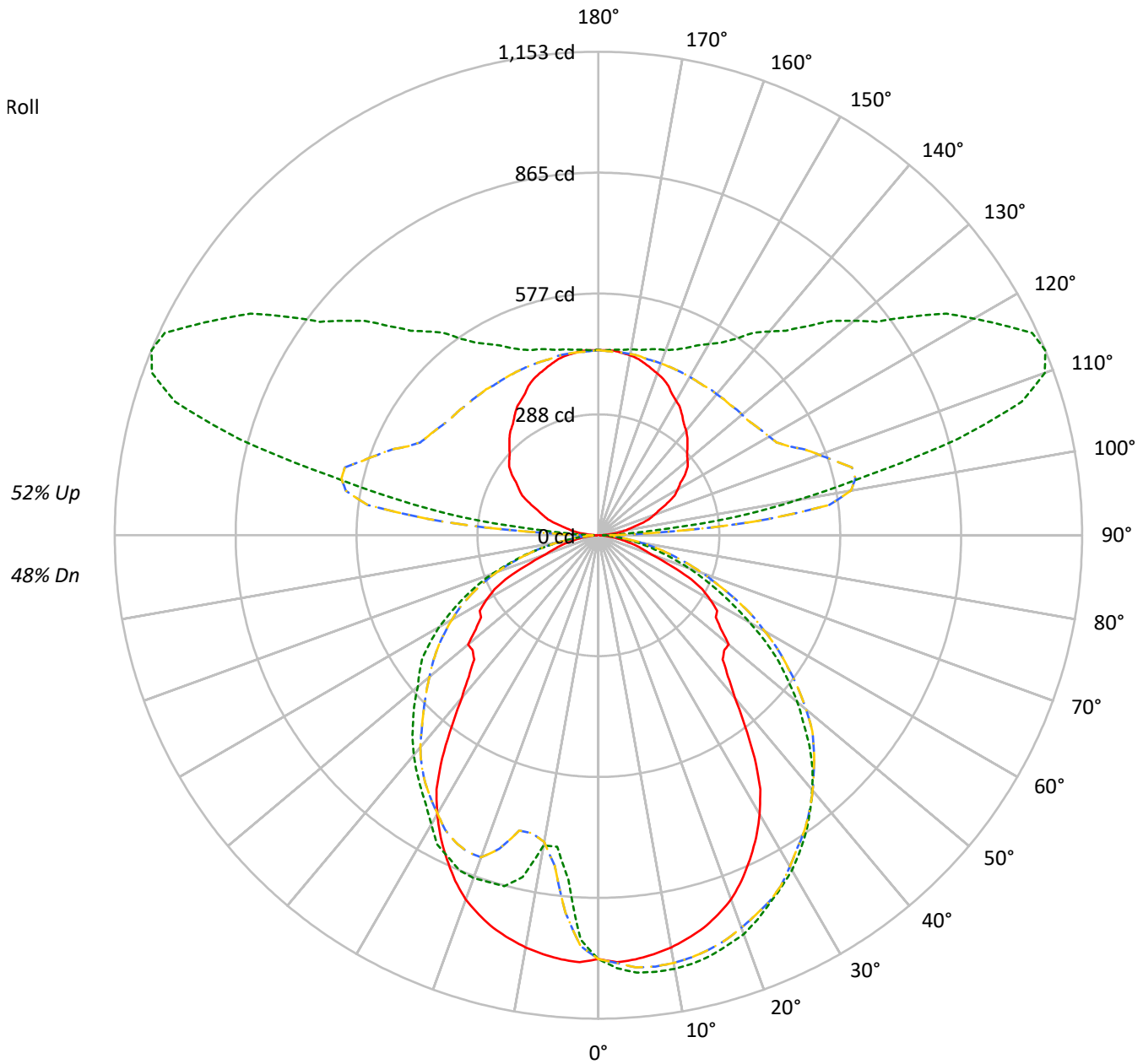
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5484.6 lumens
Efficiency: N/A
Efficacy: 129.4 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



— 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	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°	9378	9378	9378	9378
5°	9437	9467	9437	7443
10°	9364	9326	9364	6667
15°	9252	9124	9252	7617
20°	9047	8883	9047	7634
25°	8641	8534	8641	7472
30°	8119	8244	8119	7116
35°	7228	7878	7228	6727
40°	6013	7446	6013	6432
45°	5362	6942	5362	6093
50°	5683	6339	5683	5752
55°	5333	5690	5333	5555
60°	5475	4833	5475	5088
65°	4941	3994	4941	4466
70°	3397	3183	3397	3742
75°	2948	2353	2948	2817
80°	2326	1555	2326	1694
85°	1267	823	1267	700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8233 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.7
10°-20°	259.0	4.7
20°-30°	400.4	7.3
30°-40°	478.0	8.7
40°-50°	480.8	8.8
50°-60°	418.4	7.6
60°-70°	296.6	5.4
70°-80°	156.9	2.9
80°-90°	40.8	0.7
90°-100°	215.3	3.9
100°-110°	565.9	10.3
110°-120°	586.8	10.7
120°-130°	470.7	8.6
130°-140°	369.3	6.7
140°-150°	283.4	5.2
150°-160°	204.1	3.7
160°-170°	124.9	2.3
170°-180°	42.2	0.8
0°-30°	750.6	13.7
0°-40°	1228.6	22.4
0°-60°	2127.8	38.8
0°-90°	2622.1	47.8
90°-120°	1367.9	24.9
90°-150°	2491.3	45.4
90°-180°	2863.0	52.2
0°-180°	5484.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1011	1011	1011	1011	1011	
5°	1015	1047	1015	823	1015	96
15°	970	1038	970	866	970	273
25°	854	968	854	847	854	392
35°	649	863	649	737	649	402
45°	419	711	419	624	419	335
55°	341	525	341	512	341	314
65°	237	316	237	354	237	227
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	886	102	886	102	108
115°	181	1141	181	1141	181	179
125°	252	909	252	909	252	224
135°	300	705	300	705	300	232
145°	348	572	348	572	348	218
155°	394	492	394	492	394	181
165°	425	459	425	459	425	120
175°	442	444	442	444	442	42
180°	442	442	442	442	442	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	1019.2	1019.2	1025.0	1026.9	1026.9	1024.1	1021.2	1024.1	1032.7	1035.5	1034.6
5°	1015.4	1023.1	1033.6	1035.5	1037.5	1036.5	1034.6	1036.5	1046.1	1048.0	1048.9
7.5°	1007.7	1022.2	1035.5	1038.4	1041.3	1038.4	1037.5	1039.4	1048.9	1050.8	1050.8
10°	998.2	1018.2	1033.6	1035.5	1038.4	1035.5	1035.5	1039.4	1048.9	1050.8	1051.8
12.5°	984.8	1012.5	1026.9	1028.8	1032.7	1031.7	1030.8	1034.6	1044.1	1046.1	1046.1
15°	969.5	1002.0	1015.4	1017.3	1024.1	1022.2	1022.2	1026.0	1036.5	1039.4	1038.4
17.5°	948.4	988.6	1003.9	1006.8	1011.5	1010.6	1011.5	1015.4	1025.0	1026.9	1027.9
20°	924.5	970.4	988.6	991.5	996.2	996.2	996.2	1001.0	1010.6	1014.4	1014.4
22.5°	892.0	951.3	970.4	972.3	978.1	978.1	980.0	986.7	995.3	996.2	996.2
25°	853.8	930.3	946.5	952.3	958.0	960.9	963.7	967.6	970.4	969.5	970.4
27.5°	813.7	903.5	924.5	928.4	936.0	938.9	942.7	943.7	944.6	947.5	945.6
30°	768.7	866.2	897.8	901.6	914.0	915.9	912.1	914.0	918.8	920.7	922.6
32.5°	718.1	810.8	870.1	878.7	890.1	884.4	883.4	886.3	894.0	894.0	895.9
35°	649.2	767.8	844.2	851.9	860.5	853.8	857.6	858.6	863.4	866.2	865.3
37.5°	573.7	730.5	817.5	823.2	829.9	821.3	827.0	829.9	833.7	831.8	831.8
40°	506.8	672.2	785.9	789.8	795.5	788.8	794.5	796.4	798.4	796.4	795.5
42.5°	457.1	608.1	752.5	757.2	753.4	758.2	760.1	763.9	761.1	757.2	757.2
45°	418.8	590.9	716.1	721.9	716.1	723.8	726.7	726.7	718.1	716.1	715.2
47.5°	406.4	556.5	679.8	679.8	676.9	686.5	691.3	684.6	676.0	673.1	673.1
50°	405.4	518.2	630.1	626.3	639.7	651.1	646.4	639.7	633.0	622.5	622.5
52.5°	368.2	471.4	566.0	580.4	601.4	608.1	600.5	593.8	582.3	577.5	573.7
55°	341.4	422.6	507.7	536.4	558.4	567.0	552.7	546.0	528.8	525.9	524.0
57.5°	335.6	351.9	454.2	490.5	517.3	516.3	507.7	495.3	481.0	478.1	477.1
60°	307.8	254.3	396.8	439.9	467.6	464.7	457.1	445.6	432.2	430.3	428.4
62.5°	279.2	184.5	331.7	380.6	419.8	418.8	412.1	394.9	385.4	380.6	376.8
65°	237.1	154.9	236.1	316.4	372.9	374.8	360.5	348.1	337.5	331.7	330.8
67.5°	180.7	126.2	159.7	263.9	327.9	326.0	307.8	302.1	288.7	285.8	280.1
70°	133.8	84.1	110.9	214.1	283.9	279.2	264.8	258.1	245.7	239.0	235.2
72.5°	110.9	67.9	81.3	166.3	239.0	233.3	220.8	213.2	202.7	196.9	193.1
75°	89.9	71.7	62.1	123.3	194.1	190.2	178.8	171.1	162.5	154.9	155.8
77.5°	66.0	66.9	49.7	90.8	153.9	148.2	141.5	131.9	128.1	120.5	120.5
80°	49.7	52.6	37.3	62.1	110.9	110.9	105.2	98.5	91.8	88.0	88.0
82.5°	33.5	33.5	27.7	39.2	75.5	72.7	68.8	66.9	63.1	61.2	61.2
85°	15.3	19.1	17.2	23.9	41.1	43.0	43.0	41.1	40.2	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	5.4	7.7	8.3	13.1	19.4	22.6	20.1	15.0	11.3	11.3
92.5°	11.9	32.0	52.1	57.2	80.4	111.4	126.9	111.2	79.8	56.3	54.1
95°	28.5	65.4	102.3	111.5	197.9	313.1	370.7	330.8	251.0	191.1	184.3
97.5°	49.2	81.7	114.2	122.4	266.5	458.7	554.8	529.5	479.1	441.3	428.4
100°	65.2	94.6	124.2	131.5	291.5	504.8	611.4	613.2	616.9	619.7	604.3
102.5°	78.9	106.4	133.8	140.7	303.0	519.3	627.4	659.5	723.8	772.0	758.8
105°	101.9	125.2	148.6	154.4	311.5	520.9	625.6	697.7	841.8	949.8	942.7
107.5°	125.6	147.4	169.1	174.6	313.1	497.7	590.0	690.5	891.5	1042.2	1044.0
110°	141.7	161.3	181.0	185.8	310.7	477.1	560.4	672.7	897.4	1065.9	1073.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.4	176.1	194.7	199.4	310.8	459.3	533.4	648.5	878.4	1050.8	1062.2
115°	181.1	198.3	215.6	219.9	313.7	438.6	501.1	611.9	833.4	999.6	1015.3
117.5°	204.5	220.2	235.8	239.8	319.5	425.7	478.9	578.9	778.8	928.8	946.2
120°	218.2	232.9	247.6	251.3	324.2	421.4	470.0	561.4	744.1	881.0	898.0
122.5°	231.4	246.4	261.2	264.9	331.0	419.1	463.2	545.4	709.9	833.3	850.1
125°	251.9	265.5	279.1	282.4	340.2	417.3	455.8	525.7	665.5	770.2	785.6
127.5°	268.5	282.2	295.9	299.3	349.4	416.2	449.6	509.6	629.6	719.6	732.6
130°	277.4	292.2	306.9	310.6	356.1	416.8	447.2	500.7	607.4	687.6	699.5
132.5°	286.6	301.3	316.1	319.8	361.6	417.3	445.1	492.9	588.6	660.3	671.0
135°	300.2	313.6	327.0	330.4	367.5	416.9	441.6	481.6	561.7	621.8	631.1
137.5°	314.1	327.4	340.7	344.1	376.4	419.5	441.0	474.8	542.5	593.3	600.8
140°	325.7	337.9	350.2	353.2	381.8	419.9	438.9	468.2	526.6	570.4	577.5
142.5°	334.6	345.9	357.2	360.0	386.3	421.4	438.9	464.6	516.0	554.5	560.6
145°	348.2	358.1	368.0	370.4	392.2	421.4	435.9	457.0	498.9	530.5	535.1
147.5°	361.8	371.4	381.1	383.5	400.9	424.3	435.9	452.5	485.6	510.3	514.1
150°	370.7	379.4	388.1	390.3	405.5	425.8	435.9	449.9	477.8	498.7	501.8
152.5°	379.9	386.5	393.1	394.7	408.5	426.8	435.9	447.9	471.7	489.6	491.9
155°	393.6	398.5	403.2	404.5	415.0	429.0	435.9	445.4	464.3	478.6	480.1
157.5°	403.6	408.4	413.2	414.3	421.5	431.2	435.9	443.3	458.0	469.1	470.2
160°	410.4	414.1	417.8	418.7	424.5	432.1	435.9	442.2	455.0	464.4	465.0
162.5°	417.3	420.1	422.8	423.5	427.6	433.2	435.9	441.3	451.9	459.9	460.5
165°	424.7	427.1	429.6	430.3	432.2	434.7	435.9	439.8	447.4	453.1	453.8
167.5°	431.4	432.6	433.8	434.1	435.7	437.8	438.9	441.4	446.5	450.2	450.5
170°	435.9	437.1	438.3	438.6	438.7	438.8	438.9	441.4	446.5	450.2	450.2
172.5°	438.3	438.6	438.8	438.9	438.9	438.9	438.9	440.9	444.8	447.8	447.6
175°	441.6	441.6	441.6	441.6	440.7	439.5	438.9	440.1	442.6	444.5	444.5
177.5°	441.6	441.6	441.6	441.6	440.9	440.0	439.5	440.4	442.4	444.0	443.7
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	1036.5	1033.6	1036.5	1034.6	1035.5	1032.7	1024.1	1021.2	1024.1	1026.9	1026.9
5°	1048.9	1047.0	1048.9	1048.9	1048.0	1046.1	1036.5	1034.6	1036.5	1037.5	1035.5
7.5°	1052.7	1049.9	1052.7	1050.8	1050.8	1048.9	1039.4	1037.5	1038.4	1041.3	1038.4
10°	1052.7	1049.9	1052.7	1051.8	1050.8	1048.9	1039.4	1035.5	1035.5	1038.4	1035.5
12.5°	1048.0	1046.1	1048.0	1046.1	1046.1	1044.1	1034.6	1030.8	1031.7	1032.7	1028.8
15°	1040.3	1037.5	1040.3	1038.4	1039.4	1036.5	1026.0	1022.2	1022.2	1024.1	1017.3
17.5°	1028.8	1025.0	1028.8	1027.9	1026.9	1025.0	1015.4	1011.5	1010.6	1011.5	1006.8
20°	1015.4	1012.5	1015.4	1014.4	1014.4	1010.6	1001.0	996.2	996.2	996.2	991.5
22.5°	994.3	991.5	994.3	996.2	996.2	995.3	986.7	980.0	978.1	978.1	972.3
25°	970.4	967.6	970.4	970.4	969.5	970.4	967.6	963.7	960.9	958.0	952.3
27.5°	947.5	945.6	947.5	945.6	947.5	944.6	943.7	942.7	938.9	936.0	928.4
30°	924.5	922.6	924.5	922.6	920.7	918.8	914.0	912.1	915.9	914.0	901.6
32.5°	895.9	894.0	895.9	895.9	894.0	894.0	886.3	883.4	884.4	890.1	878.7
35°	866.2	863.4	866.2	865.3	866.2	863.4	858.6	857.6	853.8	860.5	851.9
37.5°	831.8	828.9	831.8	831.8	831.8	833.7	829.9	827.0	821.3	829.9	823.2
40°	796.4	792.6	796.4	795.5	796.4	798.4	796.4	794.5	788.8	795.5	789.8
42.5°	756.3	755.3	756.3	757.2	757.2	761.1	763.9	760.1	758.2	753.4	757.2
45°	713.3	711.4	713.3	715.2	716.1	718.1	726.7	726.7	723.8	716.1	721.9
47.5°	667.4	662.6	667.4	673.1	673.1	676.0	684.6	691.3	686.5	676.9	679.8
50°	618.6	619.6	618.6	622.5	622.5	633.0	639.7	646.4	651.1	639.7	626.3
52.5°	570.8	569.9	570.8	573.7	577.5	582.3	593.8	600.5	608.1	601.4	580.4
55°	523.0	524.9	523.0	524.0	525.9	528.8	546.0	552.7	567.0	558.4	536.4
57.5°	475.2	472.4	475.2	477.1	478.1	481.0	495.3	507.7	516.3	517.3	490.5
60°	419.8	416.0	419.8	428.4	430.3	432.2	445.6	457.1	464.7	467.6	439.9
62.5°	371.0	364.3	371.0	376.8	380.6	385.4	394.9	412.1	418.8	419.8	380.6
65°	319.3	316.4	319.3	330.8	331.7	337.5	348.1	360.5	374.8	372.9	316.4
67.5°	272.5	272.5	272.5	280.1	285.8	288.7	302.1	307.8	326.0	327.9	263.9
70°	229.4	228.5	229.4	235.2	239.0	245.7	258.1	264.8	279.2	283.9	214.1
72.5°	188.3	187.4	188.3	193.1	196.9	202.7	213.2	220.8	233.3	239.0	166.3
75°	152.0	150.1	152.0	155.8	154.9	162.5	171.1	178.8	190.2	194.1	123.3
77.5°	116.6	116.6	116.6	120.5	120.5	128.1	131.9	141.5	148.2	153.9	90.8
80°	87.0	86.0	87.0	88.0	88.0	91.8	98.5	105.2	110.9	110.9	62.1
82.5°	61.2	59.3	61.2	61.2	61.2	63.1	66.9	68.8	72.7	75.5	39.2
85°	38.2	38.2	38.2	39.2	38.2	40.2	41.1	43.0	43.0	41.1	23.9
87.5°	24.9	23.9	24.9	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	22.6	19.4	13.1	8.3
92.5°	45.1	36.1	45.1	54.1	56.3	79.8	111.2	126.9	111.4	80.4	57.2
95°	157.3	130.1	157.3	184.3	191.1	251.0	330.8	370.7	313.1	197.9	111.5
97.5°	376.8	325.1	376.8	428.4	441.3	479.1	529.5	554.8	458.7	266.5	122.4
100°	542.8	481.3	542.8	604.3	619.7	616.9	613.2	611.4	504.8	291.5	131.5
102.5°	706.1	653.4	706.1	758.8	772.0	723.8	659.5	627.4	519.3	303.0	140.7
105°	914.4	886.1	914.4	942.7	949.8	841.8	697.7	625.6	520.9	311.5	154.4
107.5°	1050.8	1057.7	1050.8	1044.0	1042.2	891.5	690.5	590.0	497.7	313.1	174.6
110°	1102.8	1132.4	1102.8	1073.3	1065.9	897.4	672.7	560.4	477.1	310.7	185.8



TEST NUMBER: P934710

CATALOG NUMBER: SQ4-FA-075U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1107.5	1152.8	1107.5	1062.2	1050.8	878.4	648.5	533.4	459.3	310.8	199.4
115°	1078.2	1141.0	1078.2	1015.3	999.6	833.4	611.9	501.1	438.6	313.7	219.9
117.5°	1015.8	1085.5	1015.8	946.2	928.8	778.8	578.9	478.9	425.7	319.5	239.8
120°	965.7	1033.3	965.7	898.0	881.0	744.1	561.4	470.0	421.4	324.2	251.3
122.5°	916.8	983.6	916.8	850.1	833.3	709.9	545.4	463.2	419.1	331.0	264.9
125°	847.1	908.6	847.1	785.6	770.2	665.5	525.7	455.8	417.3	340.2	282.4
127.5°	784.4	836.3	784.4	732.6	719.6	629.6	509.6	449.6	416.2	349.4	299.3
130°	747.5	795.4	747.5	699.5	687.6	607.4	500.7	447.2	416.8	356.1	310.6
132.5°	713.9	756.9	713.9	671.0	660.3	588.6	492.9	445.1	417.3	361.6	319.8
135°	668.1	705.0	668.1	631.1	621.8	561.7	481.6	441.6	416.9	367.5	330.4
137.5°	631.2	661.5	631.2	600.8	593.3	542.5	474.8	441.0	419.5	376.4	344.1
140°	605.9	634.2	605.9	577.5	570.4	526.6	468.2	438.9	419.9	381.8	353.2
142.5°	584.9	609.3	584.9	560.6	554.5	516.0	464.6	438.9	421.4	386.3	360.0
145°	553.5	572.0	553.5	535.1	530.5	498.9	457.0	435.9	421.4	392.2	370.4
147.5°	529.4	544.7	529.4	514.1	510.3	485.6	452.5	435.9	424.3	400.9	383.5
150°	514.2	526.7	514.2	501.8	498.7	477.8	449.9	435.9	425.8	405.5	390.3
152.5°	501.2	510.6	501.2	491.9	489.6	471.7	447.9	435.9	426.8	408.5	394.7
155°	486.3	492.5	486.3	480.1	478.6	464.3	445.4	435.9	429.0	415.0	404.5
157.5°	474.6	478.9	474.6	470.2	469.1	458.0	443.3	435.9	431.2	421.5	414.3
160°	467.5	470.0	467.5	465.0	464.4	455.0	442.2	435.9	432.1	424.5	418.7
162.5°	462.9	465.3	462.9	460.5	459.9	451.9	441.3	435.9	433.2	427.6	423.5
165°	456.3	458.8	456.3	453.8	453.1	447.4	439.8	435.9	434.7	432.2	430.3
167.5°	451.5	452.6	451.5	450.5	450.2	446.5	441.4	438.9	437.8	435.7	434.1
170°	450.2	450.2	450.2	450.2	450.2	446.5	441.4	438.9	438.8	438.7	438.6
172.5°	446.6	445.7	446.6	447.6	447.8	444.8	440.9	438.9	438.9	438.9	438.9
175°	444.5	444.5	444.5	444.5	444.5	442.6	440.1	438.9	439.5	440.7	441.6
177.5°	442.6	441.6	442.6	443.7	444.0	442.4	440.4	439.5	440.0	440.9	441.6
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



TEST NUMBER: P934710

CATALOG NUMBER: SQ4-FA-075U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	1025.0	1019.2	1019.2	1009.6	1005.8	1002.9	998.2	983.8	980.0	976.2	981.9
5°	1033.6	1023.1	1015.4	998.2	983.8	978.1	959.9	925.5	902.6	885.4	875.8
7.5°	1035.5	1022.2	1007.7	981.0	946.5	931.2	875.8	812.7	795.5	780.2	770.6
10°	1033.6	1018.2	998.2	958.0	876.7	850.0	794.5	753.4	742.9	740.0	742.9
12.5°	1026.9	1012.5	984.8	917.9	804.1	785.9	753.4	729.5	727.6	732.4	758.2
15°	1015.4	1002.0	969.5	864.3	763.9	750.6	727.6	719.0	729.5	763.0	840.4
17.5°	1003.9	988.6	948.4	811.7	733.3	723.8	707.5	724.7	784.0	828.9	854.8
20°	988.6	970.4	924.5	773.5	711.4	702.8	695.1	772.5	817.5	833.7	848.1
22.5°	970.4	951.3	892.0	746.7	688.4	681.7	686.5	799.3	817.5	828.9	841.4
25°	946.5	930.3	853.8	725.7	670.3	662.6	680.8	796.4	807.0	809.8	834.7
27.5°	924.5	903.5	813.7	706.6	648.3	645.4	685.5	784.0	791.7	794.5	821.3
30°	897.8	866.2	768.7	686.5	625.3	624.4	686.5	768.7	766.8	774.5	801.2
32.5°	870.1	810.8	718.1	661.6	603.3	602.4	679.8	745.8	743.9	754.4	774.5
35°	844.2	767.8	649.2	633.0	575.6	576.6	663.6	719.0	720.0	729.5	742.0
37.5°	817.5	730.5	573.7	601.4	548.8	548.8	641.6	694.2	692.2	695.1	712.3
40°	785.9	672.2	506.8	560.3	524.0	521.1	614.8	667.4	660.7	659.7	683.6
42.5°	752.5	608.1	457.1	505.8	495.3	491.5	582.3	634.9	622.5	625.3	655.9
45°	716.1	590.9	418.8	427.4	465.7	462.8	546.9	597.6	589.0	596.6	628.2
47.5°	679.8	556.5	406.4	354.8	434.1	433.2	507.7	561.3	556.5	564.1	597.6
50°	630.1	518.2	405.4	304.0	398.7	402.6	460.9	525.9	525.9	532.6	568.0
52.5°	566.0	471.4	368.2	275.3	357.6	369.1	419.8	495.3	497.2	503.9	535.5
55°	507.7	422.6	341.4	253.3	308.8	333.6	379.6	463.8	467.6	474.3	503.0
57.5°	454.2	351.9	335.6	227.5	263.9	287.8	344.3	433.2	435.1	440.8	468.5
60°	396.8	254.3	307.8	199.8	224.7	242.8	311.7	396.8	403.5	407.4	431.3
62.5°	331.7	184.5	279.2	180.7	205.5	209.4	284.9	362.4	371.0	373.9	388.2
65°	236.1	154.9	237.1	164.4	185.5	186.4	256.2	327.0	334.6	339.4	350.0
67.5°	159.7	126.2	180.7	149.1	170.2	171.1	228.5	285.8	296.4	300.2	306.9
70°	110.9	84.1	133.8	132.9	153.0	154.9	198.8	248.6	258.1	261.0	264.8
72.5°	81.3	67.9	110.9	119.5	134.8	136.7	168.3	206.5	216.1	218.9	220.8
75°	62.1	71.7	89.9	104.2	114.7	115.7	137.7	168.3	174.9	176.9	177.8
77.5°	49.7	66.9	66.0	84.1	93.7	91.8	108.0	130.0	135.8	135.8	135.8
80°	37.3	52.6	49.7	60.2	68.8	66.9	77.4	92.7	94.6	96.6	95.6
82.5°	27.7	33.5	33.5	38.2	45.9	44.0	51.6	60.2	60.2	60.2	62.1
85°	17.2	19.1	15.3	20.1	25.8	24.9	28.7	32.5	33.5	33.5	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	5.4	3.0	5.4	7.7	8.3	13.1	19.4	22.6	20.1	15.0
92.5°	52.1	32.0	11.9	32.0	52.1	57.2	80.4	111.4	126.9	111.2	79.8
95°	102.3	65.4	28.5	65.4	102.3	111.5	197.9	313.1	370.7	330.8	251.0
97.5°	114.2	81.7	49.2	81.7	114.2	122.4	266.5	458.7	554.8	529.5	479.1
100°	124.2	94.6	65.2	94.6	124.2	131.5	291.5	504.8	611.4	613.2	616.9
102.5°	133.8	106.4	78.9	106.4	133.8	140.7	303.0	519.3	627.4	659.5	723.8
105°	148.6	125.2	101.9	125.2	148.6	154.4	311.5	520.9	625.6	697.7	841.8
107.5°	169.1	147.4	125.6	147.4	169.1	174.6	313.1	497.7	590.0	690.5	891.5
110°	181.0	161.3	141.7	161.3	181.0	185.8	310.7	477.1	560.4	672.7	897.4



TEST NUMBER: P934710

CATALOG NUMBER: SQ4-FA-075U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.7	176.1	157.4	176.1	194.7	199.4	310.8	459.3	533.4	648.5	878.4
115°	215.6	198.3	181.1	198.3	215.6	219.9	313.7	438.6	501.1	611.9	833.4
117.5°	235.8	220.2	204.5	220.2	235.8	239.8	319.5	425.7	478.9	578.9	778.8
120°	247.6	232.9	218.2	232.9	247.6	251.3	324.2	421.4	470.0	561.4	744.1
122.5°	261.2	246.4	231.4	246.4	261.2	264.9	331.0	419.1	463.2	545.4	709.9
125°	279.1	265.5	251.9	265.5	279.1	282.4	340.2	417.3	455.8	525.7	665.5
127.5°	295.9	282.2	268.5	282.2	295.9	299.3	349.4	416.2	449.6	509.6	629.6
130°	306.9	292.2	277.4	292.2	306.9	310.6	356.1	416.8	447.2	500.7	607.4
132.5°	316.1	301.3	286.6	301.3	316.1	319.8	361.6	417.3	445.1	492.9	588.6
135°	327.0	313.6	300.2	313.6	327.0	330.4	367.5	416.9	441.6	481.6	561.7
137.5°	340.7	327.4	314.1	327.4	340.7	344.1	376.4	419.5	441.0	474.8	542.5
140°	350.2	337.9	325.7	337.9	350.2	353.2	381.8	419.9	438.9	468.2	526.6
142.5°	357.2	345.9	334.6	345.9	357.2	360.0	386.3	421.4	438.9	464.6	516.0
145°	368.0	358.1	348.2	358.1	368.0	370.4	392.2	421.4	435.9	457.0	498.9
147.5°	381.1	371.4	361.8	371.4	381.1	383.5	400.9	424.3	435.9	452.5	485.6
150°	388.1	379.4	370.7	379.4	388.1	390.3	405.5	425.8	435.9	449.9	477.8
152.5°	393.1	386.5	379.9	386.5	393.1	394.7	408.5	426.8	435.9	447.9	471.7
155°	403.2	398.5	393.6	398.5	403.2	404.5	415.0	429.0	435.9	445.4	464.3
157.5°	413.2	408.4	403.6	408.4	413.2	414.3	421.5	431.2	435.9	443.3	458.0
160°	417.8	414.1	410.4	414.1	417.8	418.7	424.5	432.1	435.9	442.2	455.0
162.5°	422.8	420.1	417.3	420.1	422.8	423.5	427.6	433.2	435.9	441.3	451.9
165°	429.6	427.1	424.7	427.1	429.6	430.3	432.2	434.7	435.9	439.8	447.4
167.5°	433.8	432.6	431.4	432.6	433.8	434.1	435.7	437.8	438.9	441.4	446.5
170°	438.3	437.1	435.9	437.1	438.3	438.6	438.7	438.8	438.9	441.4	446.5
172.5°	438.8	438.6	438.3	438.6	438.8	438.9	438.9	438.9	438.9	440.9	444.8
175°	441.6	441.6	441.6	441.6	441.6	441.6	440.7	439.5	438.9	440.1	442.6
177.5°	441.6	441.6	441.6	441.6	441.6	441.6	440.9	440.0	439.5	440.4	442.4
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



TEST NUMBER: P934710
 CATALOG NUMBER: SQ4-FA-075U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	975.2	972.3	976.2	965.7	976.2	972.3	975.2	981.9	976.2	980.0	983.8
5°	855.7	850.9	835.6	823.2	835.6	850.9	855.7	875.8	885.4	902.6	925.5
7.5°	764.9	761.1	757.2	749.6	757.2	761.1	764.9	770.6	780.2	795.5	812.7
10°	744.8	745.8	751.5	750.6	751.5	745.8	744.8	742.9	740.0	742.9	753.4
12.5°	796.4	805.0	836.6	834.7	836.6	805.0	796.4	758.2	732.4	727.6	729.5
15°	855.7	858.6	865.3	866.2	865.3	858.6	855.7	840.4	763.0	729.5	719.0
17.5°	861.5	862.4	867.2	867.2	867.2	862.4	861.5	854.8	828.9	784.0	724.7
20°	856.7	858.6	868.1	870.1	868.1	858.6	856.7	848.1	833.7	817.5	772.5
22.5°	854.8	858.6	866.2	865.3	866.2	858.6	854.8	841.4	828.9	817.5	799.3
25°	845.2	845.2	846.2	847.1	846.2	845.2	845.2	834.7	809.8	807.0	796.4
27.5°	825.1	827.0	832.8	831.8	832.8	827.0	825.1	821.3	794.5	791.7	784.0
30°	807.0	805.0	800.3	796.4	800.3	805.0	807.0	801.2	774.5	766.8	768.7
32.5°	776.4	771.6	766.8	763.9	766.8	771.6	776.4	774.5	754.4	743.9	745.8
35°	740.0	741.0	740.0	737.2	740.0	741.0	740.0	742.0	729.5	720.0	719.0
37.5°	714.2	716.1	715.2	711.4	715.2	716.1	714.2	712.3	695.1	692.2	694.2
40°	687.5	688.4	687.5	684.6	687.5	688.4	687.5	683.6	659.7	660.7	667.4
42.5°	661.6	660.7	657.8	655.9	657.8	660.7	661.6	655.9	625.3	622.5	634.9
45°	632.0	633.0	627.2	624.4	627.2	633.0	632.0	628.2	596.6	589.0	597.6
47.5°	602.4	602.4	597.6	594.7	597.6	602.4	602.4	597.6	564.1	556.5	561.3
50°	570.8	569.9	563.2	562.2	563.2	569.9	570.8	568.0	532.6	525.9	525.9
52.5°	534.5	534.5	535.5	537.4	535.5	534.5	534.5	535.5	503.9	497.2	495.3
55°	503.0	503.9	510.6	512.5	510.6	503.9	503.0	503.0	474.3	467.6	463.8
57.5°	470.4	470.4	475.2	475.2	475.2	470.4	470.4	468.5	440.8	435.1	433.2
60°	433.2	435.1	438.9	437.9	438.9	435.1	433.2	431.3	407.4	403.5	396.8
62.5°	394.0	395.9	396.8	394.9	396.8	395.9	394.0	388.2	373.9	371.0	362.4
65°	352.9	354.8	355.7	353.8	355.7	354.8	352.9	350.0	339.4	334.6	327.0
67.5°	310.7	309.7	308.8	312.6	308.8	309.7	310.7	306.9	300.2	296.4	285.8
70°	267.7	267.7	266.7	268.6	266.7	267.7	267.7	264.8	261.0	258.1	248.6
72.5°	221.8	220.8	224.7	221.8	224.7	220.8	221.8	220.8	218.9	216.1	206.5
75°	176.9	178.8	176.9	179.7	176.9	178.8	176.9	177.8	176.9	174.9	168.3
77.5°	134.8	136.7	134.8	134.8	134.8	136.7	134.8	135.8	135.8	135.8	130.0
80°	95.6	94.6	94.6	93.7	94.6	94.6	95.6	95.6	96.6	94.6	92.7
82.5°	61.2	60.2	60.2	62.1	60.2	60.2	61.2	62.1	60.2	60.2	60.2
85°	33.5	34.4	32.5	32.5	32.5	34.4	33.5	31.5	33.5	33.5	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	22.6	19.4
92.5°	56.3	54.1	45.1	36.1	45.1	54.1	56.3	79.8	111.2	126.9	111.4
95°	191.1	184.3	157.3	130.1	157.3	184.3	191.1	251.0	330.8	370.7	313.1
97.5°	441.3	428.4	376.8	325.1	376.8	428.4	441.3	479.1	529.5	554.8	458.7
100°	619.7	604.3	542.8	481.3	542.8	604.3	619.7	616.9	613.2	611.4	504.8
102.5°	772.0	758.8	706.1	653.4	706.1	758.8	772.0	723.8	659.5	627.4	519.3
105°	949.8	942.7	914.4	886.1	914.4	942.7	949.8	841.8	697.7	625.6	520.9
107.5°	1042.2	1044.0	1050.8	1057.7	1050.8	1044.0	1042.2	891.5	690.5	590.0	497.7
110°	1065.9	1073.3	1102.8	1132.4	1102.8	1073.3	1065.9	897.4	672.7	560.4	477.1



TEST NUMBER: P934710

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1050.8	1062.2	1107.5	1152.8	1107.5	1062.2	1050.8	878.4	648.5	533.4	459.3
115°	999.6	1015.3	1078.2	1141.0	1078.2	1015.3	999.6	833.4	611.9	501.1	438.6
117.5°	928.8	946.2	1015.8	1085.5	1015.8	946.2	928.8	778.8	578.9	478.9	425.7
120°	881.0	898.0	965.7	1033.3	965.7	898.0	881.0	744.1	561.4	470.0	421.4
122.5°	833.3	850.1	916.8	983.6	916.8	850.1	833.3	709.9	545.4	463.2	419.1
125°	770.2	785.6	847.1	908.6	847.1	785.6	770.2	665.5	525.7	455.8	417.3
127.5°	719.6	732.6	784.4	836.3	784.4	732.6	719.6	629.6	509.6	449.6	416.2
130°	687.6	699.5	747.5	795.4	747.5	699.5	687.6	607.4	500.7	447.2	416.8
132.5°	660.3	671.0	713.9	756.9	713.9	671.0	660.3	588.6	492.9	445.1	417.3
135°	621.8	631.1	668.1	705.0	668.1	631.1	621.8	561.7	481.6	441.6	416.9
137.5°	593.3	600.8	631.2	661.5	631.2	600.8	593.3	542.5	474.8	441.0	419.5
140°	570.4	577.5	605.9	634.2	605.9	577.5	570.4	526.6	468.2	438.9	419.9
142.5°	554.5	560.6	584.9	609.3	584.9	560.6	554.5	516.0	464.6	438.9	421.4
145°	530.5	535.1	553.5	572.0	553.5	535.1	530.5	498.9	457.0	435.9	421.4
147.5°	510.3	514.1	529.4	544.7	529.4	514.1	510.3	485.6	452.5	435.9	424.3
150°	498.7	501.8	514.2	526.7	514.2	501.8	498.7	477.8	449.9	435.9	425.8
152.5°	489.6	491.9	501.2	510.6	501.2	491.9	489.6	471.7	447.9	435.9	426.8
155°	478.6	480.1	486.3	492.5	486.3	480.1	478.6	464.3	445.4	435.9	429.0
157.5°	469.1	470.2	474.6	478.9	474.6	470.2	469.1	458.0	443.3	435.9	431.2
160°	464.4	465.0	467.5	470.0	467.5	465.0	464.4	455.0	442.2	435.9	432.1
162.5°	459.9	460.5	462.9	465.3	462.9	460.5	459.9	451.9	441.3	435.9	433.2
165°	453.1	453.8	456.3	458.8	456.3	453.8	453.1	447.4	439.8	435.9	434.7
167.5°	450.2	450.5	451.5	452.6	451.5	450.5	450.2	446.5	441.4	438.9	437.8
170°	450.2	450.2	450.2	450.2	450.2	450.2	450.2	446.5	441.4	438.9	438.8
172.5°	447.8	447.6	446.6	445.7	446.6	447.6	447.8	444.8	440.9	438.9	438.9
175°	444.5	444.5	444.5	444.5	444.5	444.5	444.5	442.6	440.1	438.9	439.5
177.5°	444.0	443.7	442.6	441.6	442.6	443.7	444.0	442.4	440.4	439.5	440.0
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	998.2	1002.9	1005.8	1009.6	1019.2
5°	959.9	978.1	983.8	998.2	1015.4
7.5°	875.8	931.2	946.5	981.0	1007.7
10°	794.5	850.0	876.7	958.0	998.2
12.5°	753.4	785.9	804.1	917.9	984.8
15°	727.6	750.6	763.9	864.3	969.5
17.5°	707.5	723.8	733.3	811.7	948.4
20°	695.1	702.8	711.4	773.5	924.5
22.5°	686.5	681.7	688.4	746.7	892.0
25°	680.8	662.6	670.3	725.7	853.8
27.5°	685.5	645.4	648.3	706.6	813.7
30°	686.5	624.4	625.3	686.5	768.7
32.5°	679.8	602.4	603.3	661.6	718.1
35°	663.6	576.6	575.6	633.0	649.2
37.5°	641.6	548.8	548.8	601.4	573.7
40°	614.8	521.1	524.0	560.3	506.8
42.5°	582.3	491.5	495.3	505.8	457.1
45°	546.9	462.8	465.7	427.4	418.8
47.5°	507.7	433.2	434.1	354.8	406.4
50°	460.9	402.6	398.7	304.0	405.4
52.5°	419.8	369.1	357.6	275.3	368.2
55°	379.6	333.6	308.8	253.3	341.4
57.5°	344.3	287.8	263.9	227.5	335.6
60°	311.7	242.8	224.7	199.8	307.8
62.5°	284.9	209.4	205.5	180.7	279.2
65°	256.2	186.4	185.5	164.4	237.1
67.5°	228.5	171.1	170.2	149.1	180.7
70°	198.8	154.9	153.0	132.9	133.8
72.5°	168.3	136.7	134.8	119.5	110.9
75°	137.7	115.7	114.7	104.2	89.9
77.5°	108.0	91.8	93.7	84.1	66.0
80°	77.4	66.9	68.8	60.2	49.7
82.5°	51.6	44.0	45.9	38.2	33.5
85°	28.7	24.9	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	5.4	3.0
92.5°	80.4	57.2	52.1	32.0	11.9
95°	197.9	111.5	102.3	65.4	28.5
97.5°	266.5	122.4	114.2	81.7	49.2
100°	291.5	131.5	124.2	94.6	65.2
102.5°	303.0	140.7	133.8	106.4	78.9
105°	311.5	154.4	148.6	125.2	101.9
107.5°	313.1	174.6	169.1	147.4	125.6
110°	310.7	185.8	181.0	161.3	141.7



TEST NUMBER: P934710

CATALOG NUMBER: SQ4-FA-075U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.8	199.4	194.7	176.1	157.4
115°	313.7	219.9	215.6	198.3	181.1
117.5°	319.5	239.8	235.8	220.2	204.5
120°	324.2	251.3	247.6	232.9	218.2
122.5°	331.0	264.9	261.2	246.4	231.4
125°	340.2	282.4	279.1	265.5	251.9
127.5°	349.4	299.3	295.9	282.2	268.5
130°	356.1	310.6	306.9	292.2	277.4
132.5°	361.6	319.8	316.1	301.3	286.6
135°	367.5	330.4	327.0	313.6	300.2
137.5°	376.4	344.1	340.7	327.4	314.1
140°	381.8	353.2	350.2	337.9	325.7
142.5°	386.3	360.0	357.2	345.9	334.6
145°	392.2	370.4	368.0	358.1	348.2
147.5°	400.9	383.5	381.1	371.4	361.8
150°	405.5	390.3	388.1	379.4	370.7
152.5°	408.5	394.7	393.1	386.5	379.9
155°	415.0	404.5	403.2	398.5	393.6
157.5°	421.5	414.3	413.2	408.4	403.6
160°	424.5	418.7	417.8	414.1	410.4
162.5°	427.6	423.5	422.8	420.1	417.3
165°	432.2	430.3	429.6	427.1	424.7
167.5°	435.7	434.1	433.8	432.6	431.4
170°	438.7	438.6	438.3	437.1	435.9
172.5°	438.9	438.9	438.8	438.6	438.3
175°	440.7	441.6	441.6	441.6	441.6
177.5°	440.9	441.6	441.6	441.6	441.6
180°	441.6	441.6	441.6	441.6	441.6



TEST NUMBER: P934710
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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	13.21	13.34	14.20	15.50	15.16	16.00	16.14	16.99	18.29
	3H	12.84	13.59	13.83	14.59	15.92	16.50	17.25	17.48	18.25	19.57
	4H	13.03	13.74	14.03	14.75	16.08	16.93	17.65	17.93	18.65	19.98
	6H	13.15	13.81	14.16	14.81	16.16	17.21	17.87	18.22	18.87	20.22
	8H	13.15	13.77	14.17	14.80	16.14	17.28	17.90	18.29	18.93	20.27
	12H	13.12	13.71	14.14	14.73	16.10	17.31	17.91	18.33	18.92	20.29
4H	2H	13.39	14.10	14.39	15.10	16.43	15.57	16.28	16.58	17.29	18.62
	3H	14.41	15.01	15.43	16.04	17.38	17.06	17.66	18.08	18.69	20.04
	4H	14.69	15.23	15.71	16.25	17.62	17.58	18.13	18.61	19.15	20.52
	6H	14.81	15.28	15.84	16.33	17.69	17.94	18.41	18.97	19.46	20.82
	8H	14.82	15.25	15.85	16.29	17.67	18.04	18.48	19.08	19.52	20.90
	12H	14.78	15.18	15.84	16.23	17.62	18.09	18.49	19.15	19.54	20.93
8H	4H	15.13	15.57	16.17	16.61	17.99	17.71	18.15	18.74	19.18	20.56
	6H	15.39	15.76	16.45	16.84	18.21	18.14	18.50	19.19	19.58	20.96
	8H	15.44	15.75	16.50	16.82	18.22	18.28	18.60	19.35	19.67	21.06
	12H	15.42	15.70	16.49	16.76	18.20	18.37	18.65	19.44	19.71	21.15
12H	4H	15.14	15.53	16.19	16.59	17.97	17.67	18.07	18.73	19.12	20.51
	6H	15.45	15.77	16.52	16.84	18.23	18.13	18.45	19.20	19.52	20.91
	8H	15.52	15.80	16.59	16.86	18.30	18.29	18.57	19.36	19.63	21.07