

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: P934770

Luminaire Tested: SQ4-FA-075U-075D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934770
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-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

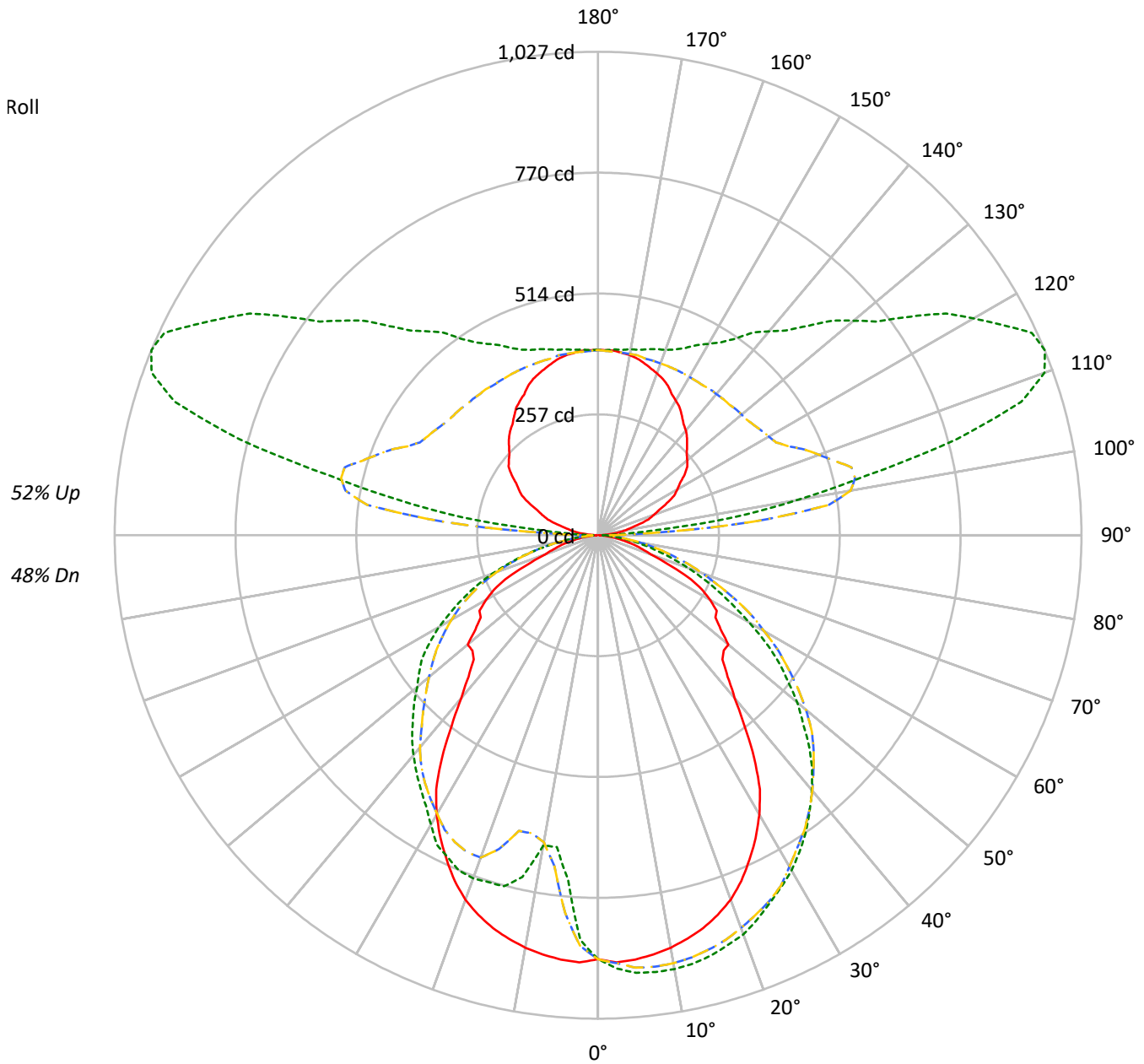
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4887.9 lumens
Efficiency: N/A
Efficacy: 115.3 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

TEST NUMBER: P934770
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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°	8357	8357	8357	8357
5°	8410	8437	8410	6634
10°	8345	8311	8345	5941
15°	8245	8131	8245	6789
20°	8063	7917	8063	6803
25°	7701	7606	7701	6659
30°	7236	7348	7236	6343
35°	6442	7021	6442	5995
40°	5358	6637	5358	5732
45°	4779	6187	4779	5429
50°	5065	5650	5065	5127
55°	4752	5071	4752	4952
60°	4879	4307	4879	4535
65°	4403	3560	4403	3980
70°	3029	2836	3029	3335
75°	2627	2098	2627	2511
80°	2073	1387	2073	1510
85°	1126	735	1126	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7337 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	1.7
10°-20°	230.8	4.7
20°-30°	356.8	7.3
30°-40°	426.0	8.7
40°-50°	428.5	8.8
50°-60°	372.8	7.6
60°-70°	264.3	5.4
70°-80°	139.8	2.9
80°-90°	36.3	0.7
90°-100°	191.8	3.9
100°-110°	504.3	10.3
110°-120°	522.9	10.7
120°-130°	419.5	8.6
130°-140°	329.1	6.7
140°-150°	252.6	5.2
150°-160°	181.9	3.7
160°-170°	111.3	2.3
170°-180°	37.6	0.8
0°-30°	669.0	13.7
0°-40°	1095.0	22.4
0°-60°	1896.3	38.8
0°-90°	2336.8	47.8
90°-120°	1219.1	24.9
90°-150°	2220.3	45.4
90°-180°	2551.0	52.2
0°-180°	4887.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	901	901	901	901	901	
5°	905	933	905	734	905	86
15°	864	925	864	772	864	243
25°	761	862	761	755	761	349
35°	579	769	579	657	579	358
45°	373	634	373	556	373	299
55°	304	468	304	457	304	280
65°	211	282	211	315	211	202
75°	80	134	80	160	80	84
85°	14	34	14	29	14	18
90°	3	10	3	10	3	3
95°	25	116	25	116	25	28
105°	91	790	91	790	91	96
115°	161	1017	161	1017	161	159
125°	224	810	224	810	224	199
135°	268	628	268	628	268	207
145°	310	510	310	510	310	194
155°	351	439	351	439	351	161
165°	378	409	378	409	378	107
175°	394	396	394	396	394	37
180°	394	394	394	394	394	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	908.3	908.3	913.5	915.2	915.2	912.7	910.1	912.7	920.3	922.9	922.0
5°	904.9	911.8	921.2	922.9	924.6	923.7	922.0	923.7	932.3	934.0	934.8
7.5°	898.1	911.0	922.9	925.4	928.0	925.4	924.6	926.3	934.8	936.5	936.5
10°	889.6	907.5	921.2	922.9	925.4	922.9	922.9	926.3	934.8	936.5	937.4
12.5°	877.6	902.4	915.2	916.9	920.3	919.5	918.6	922.0	930.6	932.3	932.3
15°	864.0	893.0	904.9	906.6	912.7	911.0	911.0	914.4	923.7	926.3	925.4
17.5°	845.3	881.1	894.7	897.2	901.5	900.6	901.5	904.9	913.5	915.2	916.1
20°	824.0	864.9	881.1	883.6	887.9	887.9	887.9	892.1	900.6	904.1	904.1
22.5°	795.0	847.8	864.9	866.6	871.7	871.7	873.4	879.3	887.0	887.9	887.9
25°	760.9	829.1	843.6	848.7	853.8	856.3	858.9	862.3	864.9	864.0	864.9
27.5°	725.1	805.2	824.0	827.4	834.2	836.7	840.2	841.0	841.9	844.4	842.7
30°	685.1	772.0	800.1	803.5	814.6	816.3	812.9	814.6	818.9	820.6	822.3
32.5°	639.9	722.6	775.4	783.1	793.3	788.2	787.3	789.9	796.7	796.7	798.4
35°	578.6	684.2	752.4	759.2	766.9	760.9	764.3	765.2	769.4	772.0	771.1
37.5°	511.3	651.0	728.5	733.7	739.6	732.0	737.1	739.6	743.0	741.3	741.3
40°	451.6	599.0	700.4	703.8	708.9	703.0	708.1	709.8	711.5	709.8	708.9
42.5°	407.3	542.0	670.6	674.9	671.5	675.7	677.4	680.8	678.3	674.9	674.9
45°	373.3	526.6	638.2	643.3	638.2	645.0	647.6	647.6	639.9	638.2	637.4
47.5°	362.2	495.9	605.9	605.9	603.3	611.8	616.1	610.1	602.4	599.9	599.9
50°	361.3	461.9	561.6	558.1	570.1	580.3	576.0	570.1	564.1	554.7	554.7
52.5°	328.1	420.1	504.5	517.2	536.0	542.0	535.1	529.2	519.0	514.7	511.3
55°	304.2	376.7	452.5	478.1	497.7	505.3	492.5	486.6	471.2	468.7	467.0
57.5°	299.1	313.6	404.8	437.2	461.0	460.2	452.5	441.4	428.6	426.1	425.2
60°	274.3	226.6	353.7	392.0	416.7	414.2	407.3	397.1	385.2	383.5	381.8
62.5°	248.8	164.4	295.6	339.2	374.1	373.3	367.3	352.0	343.4	339.2	335.8
65°	211.3	138.0	210.4	282.0	332.4	334.1	321.3	310.2	300.8	295.6	294.8
67.5°	161.0	112.5	142.3	235.2	292.2	290.5	274.3	269.2	257.3	254.7	249.6
70°	119.3	75.0	98.8	190.8	253.0	248.8	236.0	230.0	219.0	213.0	209.6
72.5°	98.8	60.5	72.4	148.2	213.0	207.9	196.8	190.0	180.6	175.5	172.1
75°	80.1	63.9	55.4	109.9	173.0	169.5	159.3	152.5	144.8	138.0	138.9
77.5°	58.8	59.6	44.3	80.9	137.2	132.1	126.1	117.6	114.2	107.4	107.4
80°	44.3	46.9	33.2	55.4	98.8	98.8	93.7	87.8	81.8	78.4	78.4
82.5°	29.8	29.8	24.7	34.9	67.3	64.8	61.3	59.6	56.2	54.5	54.5
85°	13.6	17.0	15.3	21.3	36.6	38.3	38.3	36.6	35.8	34.1	34.9
87.5°	4.3	7.7	9.4	11.9	18.7	19.6	20.4	20.4	20.4	21.3	21.3
90°	2.6	4.8	6.9	7.4	11.7	17.3	20.1	17.9	13.4	10.1	10.1
92.5°	10.6	28.5	46.4	50.9	71.7	99.3	113.1	99.1	71.1	50.2	48.2
95°	25.4	58.3	91.2	99.3	176.4	279.0	330.4	294.8	223.6	170.3	164.3
97.5°	43.9	72.8	101.8	109.1	237.5	408.8	494.4	471.9	427.0	393.3	381.8
100°	58.1	84.3	110.7	117.2	259.8	449.9	544.9	546.5	549.8	552.3	538.5
102.5°	70.3	94.8	119.3	125.4	270.0	462.8	559.2	587.8	645.0	688.0	676.2
105°	90.8	111.6	132.4	137.6	277.6	464.3	557.5	621.8	750.2	846.5	840.2
107.5°	112.0	131.4	150.7	155.6	279.0	443.6	525.9	615.4	794.5	928.9	930.4
110°	126.3	143.7	161.3	165.6	276.9	425.2	499.4	599.6	799.8	950.0	956.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	140.2	156.9	173.6	177.7	277.0	409.3	475.4	577.9	782.8	936.5	946.7
115°	161.4	176.7	192.1	196.0	279.5	390.9	446.6	545.4	742.8	890.9	904.8
117.5°	182.2	196.2	210.2	213.7	284.7	379.4	426.8	515.9	694.0	827.7	843.2
120°	194.4	207.5	220.7	224.0	288.9	375.6	418.8	500.3	663.1	785.2	800.3
122.5°	206.3	219.6	232.8	236.1	295.0	373.5	412.8	486.1	632.7	742.7	757.6
125°	224.5	236.6	248.7	251.7	303.2	371.9	406.2	468.5	593.1	686.5	700.2
127.5°	239.3	251.5	263.7	266.8	311.4	371.0	400.7	454.2	561.1	641.3	652.9
130°	247.3	260.4	273.5	276.8	317.4	371.5	398.6	446.2	541.4	612.8	623.4
132.5°	255.4	268.6	281.7	285.0	322.2	371.9	396.7	439.3	524.6	588.5	598.0
135°	267.5	279.5	291.5	294.5	327.5	371.6	393.5	429.2	500.6	554.1	562.4
137.5°	280.0	291.8	303.7	306.6	335.4	373.9	393.0	423.2	483.5	528.8	535.5
140°	290.3	301.2	312.1	314.8	340.3	374.2	391.2	417.2	469.3	508.4	514.7
142.5°	298.2	308.3	318.3	320.9	344.3	375.6	391.2	414.1	459.8	494.2	499.6
145°	310.3	319.2	327.9	330.2	349.6	375.6	388.5	407.3	444.7	472.8	476.9
147.5°	322.5	331.0	339.6	341.7	357.3	378.1	388.5	403.3	432.7	454.8	458.2
150°	330.4	338.2	345.9	347.9	361.4	379.5	388.5	401.0	425.8	444.5	447.2
152.5°	338.6	344.5	350.3	351.8	364.1	380.3	388.5	399.2	420.4	436.3	438.4
155°	350.8	355.1	359.4	360.5	369.9	382.3	388.5	396.9	413.8	426.5	427.9
157.5°	359.7	364.0	368.2	369.3	375.6	384.3	388.5	395.1	408.2	418.1	419.0
160°	365.8	369.1	372.3	373.2	378.3	385.1	388.5	394.1	405.5	413.9	414.4
162.5°	371.9	374.4	376.8	377.4	381.1	386.0	388.5	393.3	402.7	409.9	410.4
165°	378.5	380.7	382.9	383.5	385.2	387.4	388.5	391.9	398.7	403.8	404.4
167.5°	384.5	385.5	386.6	386.9	388.3	390.2	391.2	393.4	397.9	401.2	401.5
170°	388.5	389.5	390.6	390.9	391.0	391.1	391.2	393.4	397.9	401.2	401.2
172.5°	390.6	390.9	391.1	391.2	391.2	391.2	391.2	392.9	396.4	399.1	398.9
175°	393.5	393.5	393.5	393.5	392.8	391.7	391.2	392.3	394.5	396.2	396.2
177.5°	393.5	393.5	393.5	393.5	392.9	392.1	391.7	392.5	394.3	395.7	395.4
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	923.7	921.2	923.7	922.0	922.9	920.3	912.7	910.1	912.7	915.2	915.2
5°	934.8	933.1	934.8	934.8	934.0	932.3	923.7	922.0	923.7	924.6	922.9
7.5°	938.2	935.7	938.2	936.5	936.5	934.8	926.3	924.6	925.4	928.0	925.4
10°	938.2	935.7	938.2	937.4	936.5	934.8	926.3	922.9	922.9	925.4	922.9
12.5°	934.0	932.3	934.0	932.3	932.3	930.6	922.0	918.6	919.5	920.3	916.9
15°	927.1	924.6	927.1	925.4	926.3	923.7	914.4	911.0	911.0	912.7	906.6
17.5°	916.9	913.5	916.9	916.1	915.2	913.5	904.9	901.5	900.6	901.5	897.2
20°	904.9	902.4	904.9	904.1	904.1	900.6	892.1	887.9	887.9	887.9	883.6
22.5°	886.2	883.6	886.2	887.9	887.9	887.0	879.3	873.4	871.7	871.7	866.6
25°	864.9	862.3	864.9	864.9	864.0	864.9	862.3	858.9	856.3	853.8	848.7
27.5°	844.4	842.7	844.4	842.7	844.4	841.9	841.0	840.2	836.7	834.2	827.4
30°	824.0	822.3	824.0	822.3	820.6	818.9	814.6	812.9	816.3	814.6	803.5
32.5°	798.4	796.7	798.4	798.4	796.7	796.7	789.9	787.3	788.2	793.3	783.1
35°	772.0	769.4	772.0	771.1	772.0	769.4	765.2	764.3	760.9	766.9	759.2
37.5°	741.3	738.8	741.3	741.3	741.3	743.0	739.6	737.1	732.0	739.6	733.7
40°	709.8	706.4	709.8	708.9	709.8	711.5	709.8	708.1	703.0	708.9	703.8
42.5°	674.0	673.2	674.0	674.9	674.9	678.3	680.8	677.4	675.7	671.5	674.9
45°	635.7	634.0	635.7	637.4	638.2	639.9	647.6	647.6	645.0	638.2	643.3
47.5°	594.8	590.5	594.8	599.9	599.9	602.4	610.1	616.1	611.8	603.3	605.9
50°	551.3	552.2	551.3	554.7	554.7	564.1	570.1	576.0	580.3	570.1	558.1
52.5°	508.7	507.9	508.7	511.3	514.7	519.0	529.2	535.1	542.0	536.0	517.2
55°	466.1	467.8	466.1	467.0	468.7	471.2	486.6	492.5	505.3	497.7	478.1
57.5°	423.5	421.0	423.5	425.2	426.1	428.6	441.4	452.5	460.2	461.0	437.2
60°	374.1	370.7	374.1	381.8	383.5	385.2	397.1	407.3	414.2	416.7	392.0
62.5°	330.7	324.7	330.7	335.8	339.2	343.4	352.0	367.3	373.3	374.1	339.2
65°	284.6	282.0	284.6	294.8	295.6	300.8	310.2	321.3	334.1	332.4	282.0
67.5°	242.8	242.8	242.8	249.6	254.7	257.3	269.2	274.3	290.5	292.2	235.2
70°	204.5	203.6	204.5	209.6	213.0	219.0	230.0	236.0	248.8	253.0	190.8
72.5°	167.8	167.0	167.8	172.1	175.5	180.6	190.0	196.8	207.9	213.0	148.2
75°	135.5	133.8	135.5	138.9	138.0	144.8	152.5	159.3	169.5	173.0	109.9
77.5°	103.9	103.9	103.9	107.4	107.4	114.2	117.6	126.1	132.1	137.2	80.9
80°	77.5	76.7	77.5	78.4	78.4	81.8	87.8	93.7	98.8	98.8	55.4
82.5°	54.5	52.8	54.5	54.5	54.5	56.2	59.6	61.3	64.8	67.3	34.9
85°	34.1	34.1	34.1	34.9	34.1	35.8	36.6	38.3	38.3	36.6	21.3
87.5°	22.2	21.3	22.2	21.3	21.3	20.4	20.4	20.4	19.6	18.7	11.9
90°	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.1	17.3	11.7	7.4
92.5°	40.2	32.2	40.2	48.2	50.2	71.1	99.1	113.1	99.3	71.7	50.9
95°	140.2	116.0	140.2	164.3	170.3	223.6	294.8	330.4	279.0	176.4	99.3
97.5°	335.8	289.8	335.8	381.8	393.3	427.0	471.9	494.4	408.8	237.5	109.1
100°	483.8	428.9	483.8	538.5	552.3	549.8	546.5	544.9	449.9	259.8	117.2
102.5°	629.3	582.3	629.3	676.2	688.0	645.0	587.8	559.2	462.8	270.0	125.4
105°	814.9	789.7	814.9	840.2	846.5	750.2	621.8	557.5	464.3	277.6	137.6
107.5°	936.5	942.7	936.5	930.4	928.9	794.5	615.4	525.9	443.6	279.0	155.6
110°	982.9	1009.2	982.9	956.5	950.0	799.8	599.6	499.4	425.2	276.9	165.6



TEST NUMBER: P934770

CATALOG NUMBER: SQ4-FA-075U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	987.0	1027.4	987.0	946.7	936.5	782.8	577.9	475.4	409.3	277.0	177.7
115°	960.9	1016.9	960.9	904.8	890.9	742.8	545.4	446.6	390.9	279.5	196.0
117.5°	905.3	967.4	905.3	843.2	827.7	694.0	515.9	426.8	379.4	284.7	213.7
120°	860.6	920.9	860.6	800.3	785.2	663.1	500.3	418.8	375.6	288.9	224.0
122.5°	817.1	876.6	817.1	757.6	742.7	632.7	486.1	412.8	373.5	295.0	236.1
125°	755.0	809.7	755.0	700.2	686.5	593.1	468.5	406.2	371.9	303.2	251.7
127.5°	699.1	745.3	699.1	652.9	641.3	561.1	454.2	400.7	371.0	311.4	266.8
130°	666.2	708.9	666.2	623.4	612.8	541.4	446.2	398.6	371.5	317.4	276.8
132.5°	636.3	674.5	636.3	598.0	588.5	524.6	439.3	396.7	371.9	322.2	285.0
135°	595.4	628.4	595.4	562.4	554.1	500.6	429.2	393.5	371.6	327.5	294.5
137.5°	562.5	589.5	562.5	535.5	528.8	483.5	423.2	393.0	373.9	335.4	306.6
140°	540.0	565.2	540.0	514.7	508.4	469.3	417.2	391.2	374.2	340.3	314.8
142.5°	521.3	543.0	521.3	499.6	494.2	459.8	414.1	391.2	375.6	344.3	320.9
145°	493.3	509.8	493.3	476.9	472.8	444.7	407.3	388.5	375.6	349.6	330.2
147.5°	471.8	485.5	471.8	458.2	454.8	432.7	403.3	388.5	378.1	357.3	341.7
150°	458.3	469.4	458.3	447.2	444.5	425.8	401.0	388.5	379.5	361.4	347.9
152.5°	446.7	455.1	446.7	438.4	436.3	420.4	399.2	388.5	380.3	364.1	351.8
155°	433.4	439.0	433.4	427.9	426.5	413.8	396.9	388.5	382.3	369.9	360.5
157.5°	422.9	426.8	422.9	419.0	418.1	408.2	395.1	388.5	384.3	375.6	369.3
160°	416.6	418.8	416.6	414.4	413.9	405.5	394.1	388.5	385.1	378.3	373.2
162.5°	412.5	414.7	412.5	410.4	409.9	402.7	393.3	388.5	386.0	381.1	377.4
165°	406.7	408.9	406.7	404.4	403.8	398.7	391.9	388.5	387.4	385.2	383.5
167.5°	402.4	403.3	402.4	401.5	401.2	397.9	393.4	391.2	390.2	388.3	386.9
170°	401.2	401.2	401.2	401.2	401.2	397.9	393.4	391.2	391.1	391.0	390.9
172.5°	398.1	397.2	398.1	398.9	399.1	396.4	392.9	391.2	391.2	391.2	391.2
175°	396.2	396.2	396.2	396.2	396.2	394.5	392.3	391.2	391.7	392.8	393.5
177.5°	394.5	393.5	394.5	395.4	395.7	394.3	392.5	391.7	392.1	392.9	393.5
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934770

CATALOG NUMBER: SQ4-FA-075U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	913.5	908.3	908.3	899.8	896.4	893.8	889.6	876.8	873.4	870.0	875.1
5°	921.2	911.8	904.9	889.6	876.8	871.7	855.5	824.8	804.4	789.0	780.5
7.5°	922.9	911.0	898.1	874.2	843.6	829.9	780.5	724.3	708.9	695.3	686.8
10°	921.2	907.5	889.6	853.8	781.4	757.5	708.1	671.5	662.1	659.5	662.1
12.5°	915.2	902.4	877.6	818.0	716.6	700.4	671.5	650.2	648.5	652.7	675.7
15°	904.9	893.0	864.0	770.3	680.8	668.9	648.5	640.8	650.2	680.0	749.0
17.5°	894.7	881.1	845.3	723.4	653.6	645.0	630.6	645.9	698.7	738.8	761.8
20°	881.1	864.9	824.0	689.4	634.0	626.3	619.5	688.5	728.5	743.0	755.8
22.5°	864.9	847.8	795.0	665.5	613.5	607.6	611.8	712.4	728.5	738.8	749.8
25°	843.6	829.1	760.9	646.8	597.3	590.5	606.7	709.8	719.2	721.7	743.9
27.5°	824.0	805.2	725.1	629.7	577.7	575.2	611.0	698.7	705.5	708.1	732.0
30°	800.1	772.0	685.1	611.8	557.3	556.4	611.8	685.1	683.4	690.2	714.1
32.5°	775.4	722.6	639.9	589.7	537.7	536.8	605.9	664.6	662.9	672.3	690.2
35°	752.4	684.2	578.6	564.1	513.0	513.8	591.4	640.8	641.6	650.2	661.2
37.5°	728.5	651.0	511.3	536.0	489.1	489.1	571.8	618.6	616.9	619.5	634.8
40°	700.4	599.0	451.6	499.4	467.0	464.4	547.9	594.8	588.8	588.0	609.3
42.5°	670.6	542.0	407.3	450.8	441.4	438.0	519.0	565.8	554.7	557.3	584.6
45°	638.2	526.6	373.3	380.9	415.0	412.5	487.4	532.6	524.9	531.7	559.8
47.5°	605.9	495.9	362.2	316.2	386.9	386.0	452.5	500.2	495.9	502.8	532.6
50°	561.6	461.9	361.3	270.9	355.4	358.8	410.7	468.7	468.7	474.6	506.2
52.5°	504.5	420.1	328.1	245.4	318.7	329.0	374.1	441.4	443.1	449.1	477.2
55°	452.5	376.7	304.2	225.8	275.2	297.3	338.3	413.3	416.7	422.7	448.2
57.5°	404.8	313.6	299.1	202.8	235.2	256.5	306.8	386.0	387.7	392.9	417.6
60°	353.7	226.6	274.3	178.1	200.2	216.4	277.8	353.7	359.6	363.0	384.3
62.5°	295.6	164.4	248.8	161.0	183.2	186.6	253.9	323.0	330.7	333.2	346.0
65°	210.4	138.0	211.3	146.5	165.3	166.1	228.3	291.4	298.2	302.5	311.9
67.5°	142.3	112.5	161.0	132.9	151.7	152.5	203.6	254.7	264.1	267.5	273.5
70°	98.8	75.0	119.3	118.4	136.3	138.0	177.2	221.5	230.0	232.6	236.0
72.5°	72.4	60.5	98.8	106.5	120.1	121.8	150.0	184.0	192.6	195.1	196.8
75°	55.4	63.9	80.1	92.9	102.2	103.1	122.7	150.0	155.9	157.6	158.5
77.5°	44.3	59.6	58.8	75.0	83.5	81.8	96.3	115.9	121.0	121.0	121.0
80°	33.2	46.9	44.3	53.7	61.3	59.6	69.0	82.6	84.3	86.1	85.2
82.5°	24.7	29.8	29.8	34.1	40.9	39.2	46.0	53.7	53.7	53.7	55.4
85°	15.3	17.0	13.6	17.9	23.0	22.2	25.6	29.0	29.8	29.8	28.1
87.5°	9.4	7.7	4.3	6.8	10.2	10.2	11.9	12.8	11.9	11.9	11.9
90°	6.9	4.8	2.6	4.8	6.9	7.4	11.7	17.3	20.1	17.9	13.4
92.5°	46.4	28.5	10.6	28.5	46.4	50.9	71.7	99.3	113.1	99.1	71.1
95°	91.2	58.3	25.4	58.3	91.2	99.3	176.4	279.0	330.4	294.8	223.6
97.5°	101.8	72.8	43.9	72.8	101.8	109.1	237.5	408.8	494.4	471.9	427.0
100°	110.7	84.3	58.1	84.3	110.7	117.2	259.8	449.9	544.9	546.5	549.8
102.5°	119.3	94.8	70.3	94.8	119.3	125.4	270.0	462.8	559.2	587.8	645.0
105°	132.4	111.6	90.8	111.6	132.4	137.6	277.6	464.3	557.5	621.8	750.2
107.5°	150.7	131.4	112.0	131.4	150.7	155.6	279.0	443.6	525.9	615.4	794.5
110°	161.3	143.7	126.3	143.7	161.3	165.6	276.9	425.2	499.4	599.6	799.8



TEST NUMBER: P934770

CATALOG NUMBER: SQ4-FA-075U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	173.6	156.9	140.2	156.9	173.6	177.7	277.0	409.3	475.4	577.9	782.8
115°	192.1	176.7	161.4	176.7	192.1	196.0	279.5	390.9	446.6	545.4	742.8
117.5°	210.2	196.2	182.2	196.2	210.2	213.7	284.7	379.4	426.8	515.9	694.0
120°	220.7	207.5	194.4	207.5	220.7	224.0	288.9	375.6	418.8	500.3	663.1
122.5°	232.8	219.6	206.3	219.6	232.8	236.1	295.0	373.5	412.8	486.1	632.7
125°	248.7	236.6	224.5	236.6	248.7	251.7	303.2	371.9	406.2	468.5	593.1
127.5°	263.7	251.5	239.3	251.5	263.7	266.8	311.4	371.0	400.7	454.2	561.1
130°	273.5	260.4	247.3	260.4	273.5	276.8	317.4	371.5	398.6	446.2	541.4
132.5°	281.7	268.6	255.4	268.6	281.7	285.0	322.2	371.9	396.7	439.3	524.6
135°	291.5	279.5	267.5	279.5	291.5	294.5	327.5	371.6	393.5	429.2	500.6
137.5°	303.7	291.8	280.0	291.8	303.7	306.6	335.4	373.9	393.0	423.2	483.5
140°	312.1	301.2	290.3	301.2	312.1	314.8	340.3	374.2	391.2	417.2	469.3
142.5°	318.3	308.3	298.2	308.3	318.3	320.9	344.3	375.6	391.2	414.1	459.8
145°	327.9	319.2	310.3	319.2	327.9	330.2	349.6	375.6	388.5	407.3	444.7
147.5°	339.6	331.0	322.5	331.0	339.6	341.7	357.3	378.1	388.5	403.3	432.7
150°	345.9	338.2	330.4	338.2	345.9	347.9	361.4	379.5	388.5	401.0	425.8
152.5°	350.3	344.5	338.6	344.5	350.3	351.8	364.1	380.3	388.5	399.2	420.4
155°	359.4	355.1	350.8	355.1	359.4	360.5	369.9	382.3	388.5	396.9	413.8
157.5°	368.2	364.0	359.7	364.0	368.2	369.3	375.6	384.3	388.5	395.1	408.2
160°	372.3	369.1	365.8	369.1	372.3	373.2	378.3	385.1	388.5	394.1	405.5
162.5°	376.8	374.4	371.9	374.4	376.8	377.4	381.1	386.0	388.5	393.3	402.7
165°	382.9	380.7	378.5	380.7	382.9	383.5	385.2	387.4	388.5	391.9	398.7
167.5°	386.6	385.5	384.5	385.5	386.6	386.9	388.3	390.2	391.2	393.4	397.9
170°	390.6	389.5	388.5	389.5	390.6	390.9	391.0	391.1	391.2	393.4	397.9
172.5°	391.1	390.9	390.6	390.9	391.1	391.2	391.2	391.2	391.2	392.9	396.4
175°	393.5	393.5	393.5	393.5	393.5	393.5	392.8	391.7	391.2	392.3	394.5
177.5°	393.5	393.5	393.5	393.5	393.5	393.5	392.9	392.1	391.7	392.5	394.3
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934770
 CATALOG NUMBER: SQ4-FA-075U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	869.1	866.6	870.0	860.6	870.0	866.6	869.1	875.1	870.0	873.4	876.8
5°	762.6	758.4	744.7	733.7	744.7	758.4	762.6	780.5	789.0	804.4	824.8
7.5°	681.7	678.3	674.9	668.1	674.9	678.3	681.7	686.8	695.3	708.9	724.3
10°	663.8	664.6	669.8	668.9	669.8	664.6	663.8	662.1	659.5	662.1	671.5
12.5°	709.8	717.5	745.6	743.9	745.6	717.5	709.8	675.7	652.7	648.5	650.2
15°	762.6	765.2	771.1	772.0	771.1	765.2	762.6	749.0	680.0	650.2	640.8
17.5°	767.7	768.6	772.8	772.8	772.8	768.6	767.7	761.8	738.8	698.7	645.9
20°	763.5	765.2	773.7	775.4	773.7	765.2	763.5	755.8	743.0	728.5	688.5
22.5°	761.8	765.2	772.0	771.1	772.0	765.2	761.8	749.8	738.8	728.5	712.4
25°	753.3	753.3	754.1	755.0	754.1	753.3	753.3	743.9	721.7	719.2	709.8
27.5°	735.4	737.1	742.2	741.3	742.2	737.1	735.4	732.0	708.1	705.5	698.7
30°	719.2	717.5	713.2	709.8	713.2	717.5	719.2	714.1	690.2	683.4	685.1
32.5°	691.9	687.6	683.4	680.8	683.4	687.6	691.9	690.2	672.3	662.9	664.6
35°	659.5	660.4	659.5	657.0	659.5	660.4	659.5	661.2	650.2	641.6	640.8
37.5°	636.5	638.2	637.4	634.0	637.4	638.2	636.5	634.8	619.5	616.9	618.6
40°	612.7	613.5	612.7	610.1	612.7	613.5	612.7	609.3	588.0	588.8	594.8
42.5°	589.7	588.8	586.3	584.6	586.3	588.8	589.7	584.6	557.3	554.7	565.8
45°	563.3	564.1	559.0	556.4	559.0	564.1	563.3	559.8	531.7	524.9	532.6
47.5°	536.8	536.8	532.6	530.0	532.6	536.8	536.8	532.6	502.8	495.9	500.2
50°	508.7	507.9	501.9	501.1	501.9	507.9	508.7	506.2	474.6	468.7	468.7
52.5°	476.4	476.4	477.2	478.9	477.2	476.4	476.4	477.2	449.1	443.1	441.4
55°	448.2	449.1	455.1	456.8	455.1	449.1	448.2	448.2	422.7	416.7	413.3
57.5°	419.3	419.3	423.5	423.5	423.5	419.3	419.3	417.6	392.9	387.7	386.0
60°	386.0	387.7	391.2	390.3	391.2	387.7	386.0	384.3	363.0	359.6	353.7
62.5°	351.1	352.8	353.7	352.0	353.7	352.8	351.1	346.0	333.2	330.7	323.0
65°	314.5	316.2	317.0	315.3	317.0	316.2	314.5	311.9	302.5	298.2	291.4
67.5°	276.9	276.0	275.2	278.6	275.2	276.0	276.9	273.5	267.5	264.1	254.7
70°	238.6	238.6	237.7	239.4	237.7	238.6	238.6	236.0	232.6	230.0	221.5
72.5°	197.7	196.8	200.2	197.7	200.2	196.8	197.7	196.8	195.1	192.6	184.0
75°	157.6	159.3	157.6	160.2	157.6	159.3	157.6	158.5	157.6	155.9	150.0
77.5°	120.1	121.8	120.1	120.1	120.1	121.8	120.1	121.0	121.0	121.0	115.9
80°	85.2	84.3	84.3	83.5	84.3	84.3	85.2	85.2	86.1	84.3	82.6
82.5°	54.5	53.7	53.7	55.4	53.7	53.7	54.5	55.4	53.7	53.7	53.7
85°	29.8	30.7	29.0	29.0	29.0	30.7	29.8	28.1	29.8	29.8	29.0
87.5°	11.1	10.2	10.2	10.2	10.2	10.2	11.1	11.9	11.9	11.9	12.8
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.1	17.3
92.5°	50.2	48.2	40.2	32.2	40.2	48.2	50.2	71.1	99.1	113.1	99.3
95°	170.3	164.3	140.2	116.0	140.2	164.3	170.3	223.6	294.8	330.4	279.0
97.5°	393.3	381.8	335.8	289.8	335.8	381.8	393.3	427.0	471.9	494.4	408.8
100°	552.3	538.5	483.8	428.9	483.8	538.5	552.3	549.8	546.5	544.9	449.9
102.5°	688.0	676.2	629.3	582.3	629.3	676.2	688.0	645.0	587.8	559.2	462.8
105°	846.5	840.2	814.9	789.7	814.9	840.2	846.5	750.2	621.8	557.5	464.3
107.5°	928.9	930.4	936.5	942.7	936.5	930.4	928.9	794.5	615.4	525.9	443.6
110°	950.0	956.5	982.9	1009.2	982.9	956.5	950.0	799.8	599.6	499.4	425.2



TEST NUMBER: P934770

CATALOG NUMBER: SQ4-FA-075U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	936.5	946.7	987.0	1027.4	987.0	946.7	936.5	782.8	577.9	475.4	409.3
115°	890.9	904.8	960.9	1016.9	960.9	904.8	890.9	742.8	545.4	446.6	390.9
117.5°	827.7	843.2	905.3	967.4	905.3	843.2	827.7	694.0	515.9	426.8	379.4
120°	785.2	800.3	860.6	920.9	860.6	800.3	785.2	663.1	500.3	418.8	375.6
122.5°	742.7	757.6	817.1	876.6	817.1	757.6	742.7	632.7	486.1	412.8	373.5
125°	686.5	700.2	755.0	809.7	755.0	700.2	686.5	593.1	468.5	406.2	371.9
127.5°	641.3	652.9	699.1	745.3	699.1	652.9	641.3	561.1	454.2	400.7	371.0
130°	612.8	623.4	666.2	708.9	666.2	623.4	612.8	541.4	446.2	398.6	371.5
132.5°	588.5	598.0	636.3	674.5	636.3	598.0	588.5	524.6	439.3	396.7	371.9
135°	554.1	562.4	595.4	628.4	595.4	562.4	554.1	500.6	429.2	393.5	371.6
137.5°	528.8	535.5	562.5	589.5	562.5	535.5	528.8	483.5	423.2	393.0	373.9
140°	508.4	514.7	540.0	565.2	540.0	514.7	508.4	469.3	417.2	391.2	374.2
142.5°	494.2	499.6	521.3	543.0	521.3	499.6	494.2	459.8	414.1	391.2	375.6
145°	472.8	476.9	493.3	509.8	493.3	476.9	472.8	444.7	407.3	388.5	375.6
147.5°	454.8	458.2	471.8	485.5	471.8	458.2	454.8	432.7	403.3	388.5	378.1
150°	444.5	447.2	458.3	469.4	458.3	447.2	444.5	425.8	401.0	388.5	379.5
152.5°	436.3	438.4	446.7	455.1	446.7	438.4	436.3	420.4	399.2	388.5	380.3
155°	426.5	427.9	433.4	439.0	433.4	427.9	426.5	413.8	396.9	388.5	382.3
157.5°	418.1	419.0	422.9	426.8	422.9	419.0	418.1	408.2	395.1	388.5	384.3
160°	413.9	414.4	416.6	418.8	416.6	414.4	413.9	405.5	394.1	388.5	385.1
162.5°	409.9	410.4	412.5	414.7	412.5	410.4	409.9	402.7	393.3	388.5	386.0
165°	403.8	404.4	406.7	408.9	406.7	404.4	403.8	398.7	391.9	388.5	387.4
167.5°	401.2	401.5	402.4	403.3	402.4	401.5	401.2	397.9	393.4	391.2	390.2
170°	401.2	401.2	401.2	401.2	401.2	401.2	401.2	397.9	393.4	391.2	391.1
172.5°	399.1	398.9	398.1	397.2	398.1	398.9	399.1	396.4	392.9	391.2	391.2
175°	396.2	396.2	396.2	396.2	396.2	396.2	396.2	394.5	392.3	391.2	391.7
177.5°	395.7	395.4	394.5	393.5	394.5	395.4	395.7	394.3	392.5	391.7	392.1
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934770

CATALOG NUMBER: SQ4-FA-075U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	900.6	900.6	900.6	900.6	900.6
2.5°	889.6	893.8	896.4	899.8	908.3
5°	855.5	871.7	876.8	889.6	904.9
7.5°	780.5	829.9	843.6	874.2	898.1
10°	708.1	757.5	781.4	853.8	889.6
12.5°	671.5	700.4	716.6	818.0	877.6
15°	648.5	668.9	680.8	770.3	864.0
17.5°	630.6	645.0	653.6	723.4	845.3
20°	619.5	626.3	634.0	689.4	824.0
22.5°	611.8	607.6	613.5	665.5	795.0
25°	606.7	590.5	597.3	646.8	760.9
27.5°	611.0	575.2	577.7	629.7	725.1
30°	611.8	556.4	557.3	611.8	685.1
32.5°	605.9	536.8	537.7	589.7	639.9
35°	591.4	513.8	513.0	564.1	578.6
37.5°	571.8	489.1	489.1	536.0	511.3
40°	547.9	464.4	467.0	499.4	451.6
42.5°	519.0	438.0	441.4	450.8	407.3
45°	487.4	412.5	415.0	380.9	373.3
47.5°	452.5	386.0	386.9	316.2	362.2
50°	410.7	358.8	355.4	270.9	361.3
52.5°	374.1	329.0	318.7	245.4	328.1
55°	338.3	297.3	275.2	225.8	304.2
57.5°	306.8	256.5	235.2	202.8	299.1
60°	277.8	216.4	200.2	178.1	274.3
62.5°	253.9	186.6	183.2	161.0	248.8
65°	228.3	166.1	165.3	146.5	211.3
67.5°	203.6	152.5	151.7	132.9	161.0
70°	177.2	138.0	136.3	118.4	119.3
72.5°	150.0	121.8	120.1	106.5	98.8
75°	122.7	103.1	102.2	92.9	80.1
77.5°	96.3	81.8	83.5	75.0	58.8
80°	69.0	59.6	61.3	53.7	44.3
82.5°	46.0	39.2	40.9	34.1	29.8
85°	25.6	22.2	23.0	17.9	13.6
87.5°	11.9	10.2	10.2	6.8	4.3
90°	11.7	7.4	6.9	4.8	2.6
92.5°	71.7	50.9	46.4	28.5	10.6
95°	176.4	99.3	91.2	58.3	25.4
97.5°	237.5	109.1	101.8	72.8	43.9
100°	259.8	117.2	110.7	84.3	58.1
102.5°	270.0	125.4	119.3	94.8	70.3
105°	277.6	137.6	132.4	111.6	90.8
107.5°	279.0	155.6	150.7	131.4	112.0
110°	276.9	165.6	161.3	143.7	126.3



TEST NUMBER: P934770

CATALOG NUMBER: SQ4-FA-075U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	277.0	177.7	173.6	156.9	140.2
115°	279.5	196.0	192.1	176.7	161.4
117.5°	284.7	213.7	210.2	196.2	182.2
120°	288.9	224.0	220.7	207.5	194.4
122.5°	295.0	236.1	232.8	219.6	206.3
125°	303.2	251.7	248.7	236.6	224.5
127.5°	311.4	266.8	263.7	251.5	239.3
130°	317.4	276.8	273.5	260.4	247.3
132.5°	322.2	285.0	281.7	268.6	255.4
135°	327.5	294.5	291.5	279.5	267.5
137.5°	335.4	306.6	303.7	291.8	280.0
140°	340.3	314.8	312.1	301.2	290.3
142.5°	344.3	320.9	318.3	308.3	298.2
145°	349.6	330.2	327.9	319.2	310.3
147.5°	357.3	341.7	339.6	331.0	322.5
150°	361.4	347.9	345.9	338.2	330.4
152.5°	364.1	351.8	350.3	344.5	338.6
155°	369.9	360.5	359.4	355.1	350.8
157.5°	375.6	369.3	368.2	364.0	359.7
160°	378.3	373.2	372.3	369.1	365.8
162.5°	381.1	377.4	376.8	374.4	371.9
165°	385.2	383.5	382.9	380.7	378.5
167.5°	388.3	386.9	386.6	385.5	384.5
170°	391.0	390.9	390.6	389.5	388.5
172.5°	391.2	391.2	391.1	390.9	390.6
175°	392.8	393.5	393.5	393.5	393.5
177.5°	392.9	393.5	393.5	393.5	393.5
180°	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934770
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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	11.96	12.81	12.94	13.80	15.10	14.76	15.60	15.74	16.59	17.89
	3H	12.44	13.19	13.43	14.19	15.52	16.09	16.85	17.08	17.85	19.17
	4H	12.63	13.34	13.63	14.35	15.68	16.53	17.25	17.53	18.25	19.58
	6H	12.75	13.41	13.76	14.41	15.76	16.81	17.47	17.82	18.47	19.82
	8H	12.75	13.38	13.77	14.40	15.74	16.88	17.50	17.89	18.53	19.87
	12H	12.72	13.31	13.74	14.33	15.70	16.91	17.51	17.93	18.52	19.89
4H	2H	12.99	13.70	13.99	14.70	16.03	15.17	15.88	16.18	16.89	18.22
	3H	14.01	14.61	15.03	15.64	16.98	16.66	17.26	17.68	18.29	19.64
	4H	14.29	14.83	15.31	15.85	17.22	17.18	17.73	18.21	18.75	20.12
	6H	14.41	14.88	15.44	15.93	17.29	17.54	18.01	18.57	19.05	20.42
	8H	14.42	14.85	15.45	15.89	17.27	17.64	18.08	18.68	19.12	20.50
	12H	14.38	14.78	15.44	15.83	17.22	17.69	18.09	18.75	19.14	20.53
8H	4H	14.73	15.17	15.77	16.21	17.59	17.31	17.75	18.34	18.78	20.16
	6H	14.99	15.36	16.05	16.44	17.81	17.74	18.10	18.79	19.18	20.56
	8H	15.04	15.35	16.10	16.42	17.82	17.88	18.20	18.95	19.27	20.66
	12H	15.02	15.30	16.09	16.36	17.80	17.97	18.25	19.04	19.31	20.75
12H	4H	14.74	15.13	15.79	16.19	17.57	17.27	17.67	18.33	18.72	20.11
	6H	15.05	15.37	16.12	16.44	17.83	17.73	18.05	18.80	19.12	20.51
	8H	15.12	15.40	16.19	16.46	17.90	17.89	18.17	18.96	19.23	20.67