

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: P934456

Luminaire Tested: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934456
REPORT IS A COMBINATION OF REPORTS P933697 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

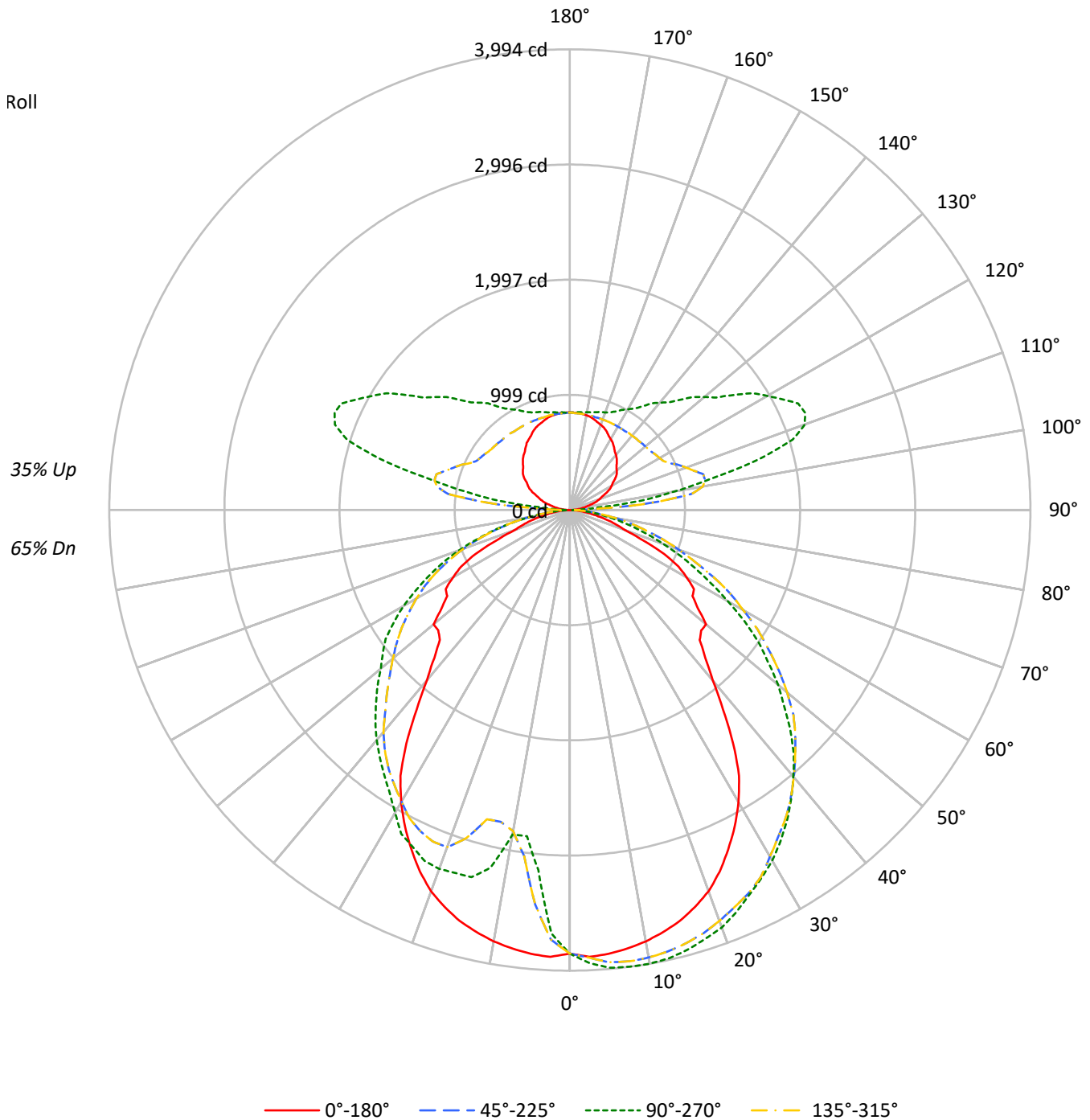
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15453.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 135.6
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
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11892	11892	11892	11892
5°	11985	12005	11985	9439
10°	11910	11825	11910	8454
15°	11785	11569	11785	9660
20°	11543	11266	11543	9681
25°	11043	10823	11043	9475
30°	10395	10455	10395	9025
35°	9272	9990	9272	8530
40°	7730	9443	7730	8156
45°	6911	8803	6911	7726
50°	7349	8039	7349	7295
55°	6920	7216	6920	7044
60°	7143	6128	7143	6452
65°	6486	5066	6486	5663
70°	4502	4037	4502	4747
75°	3963	2984	3963	3574
80°	3216	1973	3216	2148
85°	1886	1045	1886	888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10586 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	2.2
10°-20°	985.4	6.4
20°-30°	1523.3	9.9
30°-40°	1818.4	11.8
40°-50°	1829.1	11.8
50°-60°	1591.5	10.3
60°-70°	1128.4	7.3
70°-80°	597.0	3.9
80°-90°	151.9	1.0
90°-100°	412.1	2.7
100°-110°	1083.5	7.0
110°-120°	1123.5	7.3
120°-130°	901.2	5.8
130°-140°	707.1	4.6
140°-150°	542.7	3.5
150°-160°	390.9	2.5
160°-170°	239.1	1.5
170°-180°	80.8	0.5
0°-30°	2855.7	18.5
0°-40°	4674.2	30.2
0°-60°	8094.8	52.4
0°-90°	9972.1	64.5
90°-120°	2619.1	16.9
90°-150°	4770.1	30.9
90°-180°	5481.0	35.5
0°-180°	15453.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3845	3845	3845	3845	3845	
5°	3863	3983	3863	3132	3863	366
15°	3688	3947	3688	3296	3688	1038
25°	3248	3681	3248	3223	3248	1491
35°	2470	3285	2470	2804	2470	1528
45°	1593	2706	1593	2375	1593	1276
55°	1298	1997	1298	1950	1298	1193
65°	902	1204	902	1346	902	862
75°	342	571	342	684	342	359
85°	58	146	58	124	58	79
90°	6	22	6	22	6	7
95°	54	249	54	249	54	60
105°	195	1697	195	1697	195	207
115°	347	2185	347	2185	347	342
125°	482	1740	482	1740	482	428
135°	575	1350	575	1350	575	445
145°	667	1095	667	1095	667	418
155°	754	943	754	943	754	346
165°	813	878	813	878	813	229
175°	846	851	846	851	846	80
180°	846	846	846	846	846	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8
2.5°	3877.5	3877.5	3899.4	3906.6	3906.6	3895.7	3884.8	3895.7	3928.5	3939.4	3935.7
5°	3863.0	3892.1	3932.1	3939.4	3946.6	3943.1	3935.7	3943.1	3979.4	3986.7	3990.3
7.5°	3833.9	3888.5	3939.4	3950.3	3961.2	3950.3	3946.6	3954.0	3990.3	3997.6	3997.6
10°	3797.5	3874.0	3932.1	3939.4	3950.3	3939.4	3939.4	3954.0	3990.3	3997.6	4001.2
12.5°	3746.6	3852.1	3906.6	3914.0	3928.5	3924.8	3921.2	3935.7	3972.2	3979.4	3979.4
15°	3688.4	3812.1	3863.0	3870.3	3895.7	3888.5	3888.5	3903.0	3943.1	3954.0	3950.3
17.5°	3608.4	3761.2	3819.4	3830.3	3848.4	3844.8	3848.4	3863.0	3899.4	3906.6	3910.3
20°	3517.4	3692.1	3761.2	3772.1	3790.3	3790.3	3790.3	3808.4	3844.8	3859.4	3859.4
22.5°	3393.7	3619.3	3692.1	3699.3	3721.2	3721.2	3728.4	3753.8	3786.6	3790.3	3790.3
25°	3248.3	3539.3	3601.1	3623.0	3644.7	3655.6	3666.6	3681.1	3692.1	3688.4	3692.1
27.5°	3095.5	3437.4	3517.4	3532.0	3561.1	3572.0	3586.5	3590.2	3593.8	3604.7	3597.5
30°	2924.5	3295.5	3415.6	3430.2	3477.4	3484.7	3470.2	3477.4	3495.6	3502.9	3510.2
32.5°	2731.7	3084.6	3310.1	3342.8	3386.5	3364.6	3361.1	3372.0	3401.1	3401.1	3408.3
35°	2469.9	2920.9	3211.9	3241.0	3273.7	3248.3	3262.8	3266.4	3284.6	3295.5	3292.0
37.5°	2182.5	2779.1	3110.1	3131.9	3157.3	3124.6	3146.4	3157.3	3171.9	3164.6	3164.6
40°	1927.9	2557.2	2990.0	3004.5	3026.4	3001.0	3022.7	3030.0	3037.3	3030.0	3026.4
42.5°	1738.8	2313.4	2862.7	2880.9	2866.3	2884.5	2891.7	2906.3	2895.4	2880.9	2880.9
45°	1593.2	2248.0	2724.5	2746.3	2724.5	2753.5	2764.5	2764.5	2731.7	2724.5	2720.9
47.5°	1545.9	2117.0	2586.2	2586.2	2575.3	2611.7	2629.9	2604.4	2571.7	2560.8	2560.8
50°	1542.3	1971.5	2397.1	2382.5	2433.5	2477.1	2459.0	2433.5	2408.0	2368.0	2368.0
52.5°	1400.4	1793.3	2153.4	2208.0	2288.0	2313.4	2284.3	2258.9	2215.2	2197.1	2182.5
55°	1298.5	1607.8	1931.5	2040.6	2124.3	2157.0	2102.4	2077.0	2011.5	2000.6	1993.3
57.5°	1276.8	1338.5	1727.8	1866.0	1967.9	1964.2	1931.5	1884.2	1829.6	1818.8	1815.1
60°	1171.3	967.5	1509.5	1673.2	1778.8	1767.8	1738.8	1695.1	1644.1	1636.9	1629.6
62.5°	1062.1	702.0	1262.2	1447.8	1596.9	1593.2	1567.8	1502.3	1465.9	1447.8	1433.2
65°	902.1	589.3	898.4	1204.0	1418.6	1425.9	1371.3	1324.1	1284.0	1262.2	1258.5
67.5°	687.4	480.1	607.4	1004.0	1247.7	1240.4	1171.3	1149.4	1098.5	1087.6	1065.8
70°	509.2	320.1	422.0	814.8	1080.3	1062.1	1007.5	982.1	934.9	909.3	894.8
72.5°	422.0	258.2	309.2	632.9	909.3	887.5	840.2	811.2	771.1	749.3	734.8
75°	341.9	272.8	236.4	469.2	738.4	723.9	680.2	651.1	618.3	589.3	592.9
77.5°	251.0	254.7	189.1	345.6	585.7	563.8	538.3	502.0	487.4	458.3	458.3
80°	189.1	200.1	141.9	236.4	422.0	422.0	400.1	374.7	349.2	334.7	334.7
82.5°	127.3	127.3	105.4	149.1	287.3	276.4	261.9	254.7	240.1	232.8	232.8
85°	58.2	72.8	65.4	90.9	156.4	163.7	163.7	156.4	152.8	145.5	149.1
87.5°	18.2	32.8	40.0	50.9	80.0	83.7	87.3	87.3	87.3	90.9	90.9
90°	5.7	10.2	14.8	15.9	25.0	37.1	43.1	38.4	28.7	21.6	21.6
92.5°	22.7	61.2	99.8	109.5	153.9	213.2	242.8	212.8	152.8	107.8	103.5
95°	54.5	125.1	195.7	213.4	378.8	599.5	709.8	633.4	480.6	366.0	352.9
97.5°	94.2	156.5	218.8	234.4	510.3	878.2	1062.2	1014.0	917.3	844.9	820.2
100°	124.8	181.3	237.8	251.9	558.1	966.4	1170.6	1174.1	1181.2	1186.5	1157.0
102.5°	151.0	203.6	256.3	269.5	580.1	994.2	1201.3	1262.7	1385.8	1478.1	1452.9
105°	195.2	239.8	284.4	295.6	596.3	997.4	1197.9	1335.8	1611.7	1818.6	1805.0
107.5°	240.6	282.2	323.9	334.2	599.4	953.0	1129.8	1322.2	1707.1	1995.7	1999.0
110°	271.3	308.8	346.4	355.8	594.8	913.7	1073.1	1288.2	1718.4	2041.0	2055.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	301.3	337.1	372.9	381.9	595.0	879.2	1021.4	1241.5	1681.9	2012.1	2033.8
115°	346.7	379.7	412.8	421.0	600.5	839.9	959.5	1171.6	1595.8	1913.9	1944.0
117.5°	391.5	421.5	451.5	459.0	611.6	815.2	917.0	1108.4	1491.2	1778.3	1811.6
120°	417.6	445.9	474.1	481.1	620.7	806.9	900.0	1074.9	1424.6	1687.0	1719.4
122.5°	443.2	471.7	500.1	507.3	633.9	802.5	886.9	1044.3	1359.4	1595.6	1627.5
125°	482.3	508.3	534.3	540.8	651.5	798.9	872.7	1006.5	1274.0	1474.7	1504.2
127.5°	514.1	540.3	566.6	573.1	669.0	796.8	860.8	975.7	1205.4	1377.7	1402.6
130°	531.2	559.4	587.6	594.7	681.8	798.1	856.3	958.5	1163.1	1316.4	1339.4
132.5°	548.7	577.0	605.2	612.3	692.3	798.9	852.3	943.8	1126.9	1264.2	1284.8
135°	574.8	600.5	626.2	632.7	703.6	798.2	845.5	922.2	1075.5	1190.5	1208.2
137.5°	601.5	627.0	652.5	658.8	720.7	803.2	844.4	909.2	1038.8	1136.0	1150.5
140°	623.6	647.1	670.5	676.3	731.0	803.9	840.3	896.3	1008.4	1092.3	1105.9
142.5°	640.6	662.3	684.0	689.5	739.8	806.8	840.3	889.5	987.9	1061.7	1073.3
145°	666.7	685.6	704.5	709.3	751.1	806.8	834.7	874.9	955.4	1015.7	1024.5
147.5°	692.9	711.2	729.7	734.2	767.7	812.4	834.7	866.4	929.7	977.2	984.5
150°	709.8	726.4	743.1	747.3	776.5	815.3	834.7	861.4	914.9	955.0	960.9
152.5°	727.5	740.0	752.7	755.8	782.2	817.2	834.7	857.6	903.2	937.4	941.9
155°	753.5	762.9	772.2	774.5	794.6	821.3	834.7	852.9	889.2	916.4	919.3
157.5°	772.9	782.0	791.0	793.3	807.1	825.6	834.7	848.9	877.0	898.2	900.4
160°	785.9	793.0	800.0	801.8	812.8	827.4	834.7	846.8	871.0	889.2	890.3
162.5°	798.9	804.3	809.6	810.9	818.9	829.4	834.7	844.9	865.3	880.6	881.7
165°	813.2	817.9	822.7	823.9	827.5	832.3	834.7	842.1	856.7	867.6	868.8
167.5°	826.2	828.4	830.7	831.2	834.3	838.3	840.3	845.1	854.7	861.9	862.4
170°	834.7	836.9	839.2	839.8	840.0	840.2	840.3	845.1	854.7	861.9	861.9
172.5°	839.2	839.7	840.2	840.3	840.3	840.3	840.3	844.1	851.7	857.4	856.9
175°	845.5	845.5	845.5	845.5	843.7	841.4	840.3	842.7	847.6	851.2	851.2
177.5°	845.5	845.5	845.5	845.5	844.2	842.4	841.5	843.5	847.2	850.1	849.5
180°	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8
2.5°	3943.1	3932.1	3943.1	3935.7	3939.4	3928.5	3895.7	3884.8	3895.7	3906.6	3906.6
5°	3990.3	3983.1	3990.3	3990.3	3986.7	3979.4	3943.1	3935.7	3943.1	3946.6	3939.4
7.5°	4004.8	3994.0	4004.8	3997.6	3997.6	3990.3	3954.0	3946.6	3950.3	3961.2	3950.3
10°	4004.8	3994.0	4004.8	4001.2	3997.6	3990.3	3954.0	3939.4	3939.4	3950.3	3939.4
12.5°	3986.7	3979.4	3986.7	3979.4	3979.4	3972.2	3935.7	3921.2	3924.8	3928.5	3914.0
15°	3957.6	3946.6	3957.6	3950.3	3954.0	3943.1	3903.0	3888.5	3888.5	3895.7	3870.3
17.5°	3914.0	3899.4	3914.0	3910.3	3906.6	3899.4	3863.0	3848.4	3844.8	3848.4	3830.3
20°	3863.0	3852.1	3863.0	3859.4	3859.4	3844.8	3808.4	3790.3	3790.3	3790.3	3772.1
22.5°	3783.0	3772.1	3783.0	3790.3	3790.3	3786.6	3753.8	3728.4	3721.2	3721.2	3699.3
25°	3692.1	3681.1	3692.1	3692.1	3688.4	3692.1	3681.1	3666.6	3655.6	3644.7	3623.0
27.5°	3604.7	3597.5	3604.7	3597.5	3604.7	3593.8	3590.2	3586.5	3572.0	3561.1	3532.0
30°	3517.4	3510.2	3517.4	3510.2	3502.9	3495.6	3477.4	3470.2	3484.7	3477.4	3430.2
32.5°	3408.3	3401.1	3408.3	3408.3	3401.1	3401.1	3372.0	3361.1	3364.6	3386.5	3342.8
35°	3295.5	3284.6	3295.5	3292.0	3295.5	3284.6	3266.4	3262.8	3248.3	3273.7	3241.0
37.5°	3164.6	3153.7	3164.6	3164.6	3164.6	3171.9	3157.3	3146.4	3124.6	3157.3	3131.9
40°	3030.0	3015.5	3030.0	3026.4	3030.0	3037.3	3030.0	3022.7	3001.0	3026.4	3004.5
42.5°	2877.2	2873.6	2877.2	2880.9	2880.9	2895.4	2906.3	2891.7	2884.5	2866.3	2880.9
45°	2713.5	2706.3	2713.5	2720.9	2724.5	2731.7	2764.5	2764.5	2753.5	2724.5	2746.3
47.5°	2539.0	2520.8	2539.0	2560.8	2560.8	2571.7	2604.4	2629.9	2611.7	2575.3	2586.2
50°	2353.4	2357.1	2353.4	2368.0	2368.0	2408.0	2433.5	2459.0	2477.1	2433.5	2382.5
52.5°	2171.5	2168.0	2171.5	2182.5	2197.1	2215.2	2258.9	2284.3	2313.4	2288.0	2208.0
55°	1989.7	1997.0	1989.7	1993.3	2000.6	2011.5	2077.0	2102.4	2157.0	2124.3	2040.6
57.5°	1807.9	1796.9	1807.9	1815.1	1818.8	1829.6	1884.2	1931.5	1964.2	1967.9	1866.0
60°	1596.9	1582.3	1596.9	1629.6	1636.9	1644.1	1695.1	1738.8	1767.8	1778.8	1673.2
62.5°	1411.3	1385.9	1411.3	1433.2	1447.8	1465.9	1502.3	1567.8	1593.2	1596.9	1447.8
65°	1214.9	1204.0	1214.9	1258.5	1262.2	1284.0	1324.1	1371.3	1425.9	1418.6	1204.0
67.5°	1036.7	1036.7	1036.7	1065.8	1087.6	1098.5	1149.4	1171.3	1240.4	1247.7	1004.0
70°	873.0	869.3	873.0	894.8	909.3	934.9	982.1	1007.5	1062.1	1080.3	814.8
72.5°	716.6	713.0	716.6	734.8	749.3	771.1	811.2	840.2	887.5	909.3	632.9
75°	578.3	571.1	578.3	592.9	589.3	618.3	651.1	680.2	723.9	738.4	469.2
77.5°	443.8	443.8	443.8	458.3	458.3	487.4	502.0	538.3	563.8	585.7	345.6
80°	331.0	327.3	331.0	334.7	334.7	349.2	374.7	400.1	422.0	422.0	236.4
82.5°	232.8	225.5	232.8	232.8	232.8	240.1	254.7	261.9	276.4	287.3	149.1
85°	145.5	145.5	145.5	149.1	145.5	152.8	156.4	163.7	163.7	156.4	90.9
87.5°	94.6	90.9	94.6	90.9	90.9	87.3	87.3	87.3	83.7	80.0	50.9
90°	21.6	21.6	21.6	21.6	21.6	28.7	38.4	43.1	37.1	25.0	15.9
92.5°	86.4	69.2	86.4	103.5	107.8	152.8	212.8	242.8	213.2	153.9	109.5
95°	301.0	249.1	301.0	352.9	366.0	480.6	633.4	709.8	599.5	378.8	213.4
97.5°	721.3	622.5	721.3	820.2	844.9	917.3	1014.0	1062.2	878.2	510.3	234.4
100°	1039.3	921.5	1039.3	1157.0	1186.5	1181.2	1174.1	1170.6	966.4	558.1	251.9
102.5°	1352.0	1251.2	1352.0	1452.9	1478.1	1385.8	1262.7	1201.3	994.2	580.1	269.5
105°	1750.9	1696.6	1750.9	1805.0	1818.6	1611.7	1335.8	1197.9	997.4	596.3	295.6
107.5°	2012.0	2025.2	2012.0	1999.0	1995.7	1707.1	1322.2	1129.8	953.0	599.4	334.2
110°	2111.6	2168.1	2111.6	2055.2	2041.0	1718.4	1288.2	1073.1	913.7	594.8	355.8



TEST NUMBER: P934456

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2120.6	2207.3	2120.6	2033.8	2012.1	1681.9	1241.5	1021.4	879.2	595.0	381.9
115°	2064.4	2184.7	2064.4	1944.0	1913.9	1595.8	1171.6	959.5	839.9	600.5	421.0
117.5°	1945.1	2078.5	1945.1	1811.6	1778.3	1491.2	1108.4	917.0	815.2	611.6	459.0
120°	1849.1	1978.6	1849.1	1719.4	1687.0	1424.6	1074.9	900.0	806.9	620.7	481.1
122.5°	1755.5	1883.3	1755.5	1627.5	1595.6	1359.4	1044.3	886.9	802.5	633.9	507.3
125°	1621.9	1739.8	1621.9	1504.2	1474.7	1274.0	1006.5	872.7	798.9	651.5	540.8
127.5°	1501.9	1601.3	1501.9	1402.6	1377.7	1205.4	975.7	860.8	796.8	669.0	573.1
130°	1431.2	1523.0	1431.2	1339.4	1316.4	1163.1	958.5	856.3	798.1	681.8	594.7
132.5°	1367.0	1449.2	1367.0	1284.8	1264.2	1126.9	943.8	852.3	798.9	692.3	612.3
135°	1279.1	1349.9	1279.1	1208.2	1190.5	1075.5	922.2	845.5	798.2	703.6	632.7
137.5°	1208.5	1266.5	1208.5	1150.5	1136.0	1038.8	909.2	844.4	803.2	720.7	658.8
140°	1160.1	1214.3	1160.1	1105.9	1092.3	1008.4	896.3	840.3	803.9	731.0	676.3
142.5°	1120.0	1166.7	1120.0	1073.3	1061.7	987.9	889.5	840.3	806.8	739.8	689.5
145°	1059.8	1095.2	1059.8	1024.5	1015.7	955.4	874.9	834.7	806.8	751.1	709.3
147.5°	1013.7	1043.0	1013.7	984.5	977.2	929.7	866.4	834.7	812.4	767.7	734.2
150°	984.6	1008.4	984.6	960.9	955.0	914.9	861.4	834.7	815.3	776.5	747.3
152.5°	959.8	977.7	959.8	941.9	937.4	903.2	857.6	834.7	817.2	782.2	755.8
155°	931.3	943.1	931.3	919.3	916.4	889.2	852.9	834.7	821.3	794.6	774.5
157.5°	908.6	917.0	908.6	900.4	898.2	877.0	848.9	834.7	825.6	807.1	793.3
160°	895.2	900.0	895.2	890.3	889.2	871.0	846.8	834.7	827.4	812.8	801.8
162.5°	886.3	890.9	886.3	881.7	880.6	865.3	844.9	834.7	829.4	818.9	810.9
165°	873.6	878.4	873.6	868.8	867.6	856.7	842.1	834.7	832.3	827.5	823.9
167.5°	864.5	866.5	864.5	862.4	861.9	854.7	845.1	840.3	838.3	834.3	831.2
170°	861.9	861.9	861.9	861.9	861.9	854.7	845.1	840.3	840.2	840.0	839.8
172.5°	855.2	853.5	855.2	856.9	857.4	851.7	844.1	840.3	840.3	840.3	840.3
175°	851.2	851.2	851.2	851.2	851.2	847.6	842.7	840.3	841.4	843.7	845.5
177.5°	847.5	845.5	847.5	849.5	850.1	847.2	843.5	841.5	842.4	844.2	845.5
180°	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5



TEST NUMBER: P934456

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8
2.5°	3899.4	3877.5	3877.5	3841.2	3826.6	3815.7	3797.5	3743.0	3728.4	3713.8	3735.7
5°	3932.1	3892.1	3863.0	3797.5	3743.0	3721.2	3652.1	3521.1	3433.7	3368.3	3332.0
7.5°	3939.4	3888.5	3833.9	3732.1	3601.1	3542.9	3332.0	3091.9	3026.4	2968.2	2931.8
10°	3932.1	3874.0	3797.5	3644.7	3335.5	3233.7	3022.7	2866.3	2826.3	2815.4	2826.3
12.5°	3906.6	3852.1	3746.6	3492.0	3059.1	2990.0	2866.3	2775.4	2768.1	2786.3	2884.5
15°	3863.0	3812.1	3688.4	3288.3	2906.3	2855.4	2768.1	2735.4	2775.4	2902.7	3197.3
17.5°	3819.4	3761.2	3608.4	3088.2	2790.0	2753.5	2691.7	2757.2	2982.7	3153.7	3251.9
20°	3761.2	3692.1	3517.4	2942.7	2706.3	2673.5	2644.4	2939.1	3110.1	3171.9	3226.4
22.5°	3692.1	3619.3	3393.7	2840.9	2619.0	2593.5	2611.7	3041.0	3110.1	3153.7	3201.0
25°	3601.1	3539.3	3248.3	2760.9	2549.9	2520.8	2589.9	3030.0	3070.1	3081.0	3175.5
27.5°	3517.4	3437.4	3095.5	2688.1	2466.2	2455.3	2608.1	2982.7	3011.9	3022.7	3124.6
30°	3415.6	3295.5	2924.5	2611.7	2378.9	2375.3	2611.7	2924.5	2917.3	2946.4	3048.2
32.5°	3310.1	3084.6	2731.7	2517.1	2295.2	2291.6	2586.2	2837.2	2830.0	2870.0	2946.4
35°	3211.9	2920.9	2469.9	2408.0	2189.8	2193.4	2524.4	2735.4	2739.0	2775.4	2822.6
37.5°	3110.1	2779.1	2182.5	2288.0	2087.9	2087.9	2440.7	2640.9	2633.5	2644.4	2710.0
40°	2990.0	2557.2	1927.9	2131.5	1993.3	1982.4	2338.9	2539.0	2513.5	2509.9	2600.8
42.5°	2862.7	2313.4	1738.8	1924.2	1884.2	1869.6	2215.2	2415.3	2368.0	2378.9	2495.3
45°	2724.5	2248.0	1593.2	1626.0	1771.4	1760.5	2080.6	2273.4	2240.6	2269.8	2389.9
47.5°	2586.2	2117.0	1545.9	1349.5	1651.4	1647.8	1931.5	2135.2	2117.0	2146.1	2273.4
50°	2397.1	1971.5	1542.3	1156.8	1516.9	1531.4	1753.3	2000.6	2000.6	2026.1	2160.6
52.5°	2153.4	1793.3	1400.4	1047.5	1360.4	1404.1	1596.9	1884.2	1891.5	1917.0	2037.0
55°	1931.5	1607.8	1298.5	963.9	1174.9	1269.4	1444.1	1764.2	1778.8	1804.2	1913.3
57.5°	1727.8	1338.5	1276.8	865.8	1004.0	1094.9	1309.5	1647.8	1655.1	1676.9	1782.3
60°	1509.5	967.5	1171.3	760.2	854.8	923.9	1185.8	1509.5	1535.0	1549.5	1640.5
62.5°	1262.2	702.0	1062.1	687.4	782.1	796.7	1084.0	1378.6	1411.3	1422.2	1476.8
65°	898.4	589.3	902.1	625.7	705.7	709.3	974.9	1244.0	1273.1	1291.3	1331.3
67.5°	607.4	480.1	687.4	567.4	647.4	651.1	869.3	1087.6	1127.6	1142.2	1167.7
70°	422.0	320.1	509.2	505.6	582.0	589.3	756.6	945.8	982.1	993.0	1007.5
72.5°	309.2	258.2	422.0	454.7	512.9	520.1	640.2	785.7	822.1	833.0	840.2
75°	236.4	272.8	341.9	396.4	436.5	440.1	523.8	640.2	665.7	672.9	676.5
77.5°	189.1	254.7	251.0	320.1	356.4	349.2	411.0	494.7	516.5	516.5	516.5
80°	141.9	200.1	189.1	229.1	261.9	254.7	294.7	352.9	360.1	367.4	363.8
82.5°	105.4	127.3	127.3	145.5	174.6	167.3	196.4	229.1	229.1	229.1	236.4
85°	65.4	72.8	58.2	76.4	98.2	94.6	109.1	123.7	127.3	127.3	120.0
87.5°	40.0	32.8	18.2	29.1	43.7	43.7	50.9	54.6	50.9	50.9	50.9
90°	14.8	10.2	5.7	10.2	14.8	15.9	25.0	37.1	43.1	38.4	28.7
92.5°	99.8	61.2	22.7	61.2	99.8	109.5	153.9	213.2	242.8	212.8	152.8
95°	195.7	125.1	54.5	125.1	195.7	213.4	378.8	599.5	709.8	633.4	480.6
97.5°	218.8	156.5	94.2	156.5	218.8	234.4	510.3	878.2	1062.2	1014.0	917.3
100°	237.8	181.3	124.8	181.3	237.8	251.9	558.1	966.4	1170.6	1174.1	1181.2
102.5°	256.3	203.6	151.0	203.6	256.3	269.5	580.1	994.2	1201.3	1262.7	1385.8
105°	284.4	239.8	195.2	239.8	284.4	295.6	596.3	997.4	1197.9	1335.8	1611.7
107.5°	323.9	282.2	240.6	282.2	323.9	334.2	599.4	953.0	1129.8	1322.2	1707.1
110°	346.4	308.8	271.3	308.8	346.4	355.8	594.8	913.7	1073.1	1288.2	1718.4



TEST NUMBER: P934456

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	372.9	337.1	301.3	337.1	372.9	381.9	595.0	879.2	1021.4	1241.5	1681.9
115°	412.8	379.7	346.7	379.7	412.8	421.0	600.5	839.9	959.5	1171.6	1595.8
117.5°	451.5	421.5	391.5	421.5	451.5	459.0	611.6	815.2	917.0	1108.4	1491.2
120°	474.1	445.9	417.6	445.9	474.1	481.1	620.7	806.9	900.0	1074.9	1424.6
122.5°	500.1	471.7	443.2	471.7	500.1	507.3	633.9	802.5	886.9	1044.3	1359.4
125°	534.3	508.3	482.3	508.3	534.3	540.8	651.5	798.9	872.7	1006.5	1274.0
127.5°	566.6	540.3	514.1	540.3	566.6	573.1	669.0	796.8	860.8	975.7	1205.4
130°	587.6	559.4	531.2	559.4	587.6	594.7	681.8	798.1	856.3	958.5	1163.1
132.5°	605.2	577.0	548.7	577.0	605.2	612.3	692.3	798.9	852.3	943.8	1126.9
135°	626.2	600.5	574.8	600.5	626.2	632.7	703.6	798.2	845.5	922.2	1075.5
137.5°	652.5	627.0	601.5	627.0	652.5	658.8	720.7	803.2	844.4	909.2	1038.8
140°	670.5	647.1	623.6	647.1	670.5	676.3	731.0	803.9	840.3	896.3	1008.4
142.5°	684.0	662.3	640.6	662.3	684.0	689.5	739.8	806.8	840.3	889.5	987.9
145°	704.5	685.6	666.7	685.6	704.5	709.3	751.1	806.8	834.7	874.9	955.4
147.5°	729.7	711.2	692.9	711.2	729.7	734.2	767.7	812.4	834.7	866.4	929.7
150°	743.1	726.4	709.8	726.4	743.1	747.3	776.5	815.3	834.7	861.4	914.9
152.5°	752.7	740.0	727.5	740.0	752.7	755.8	782.2	817.2	834.7	857.6	903.2
155°	772.2	762.9	753.5	762.9	772.2	774.5	794.6	821.3	834.7	852.9	889.2
157.5°	791.0	782.0	772.9	782.0	791.0	793.3	807.1	825.6	834.7	848.9	877.0
160°	800.0	793.0	785.9	793.0	800.0	801.8	812.8	827.4	834.7	846.8	871.0
162.5°	809.6	804.3	798.9	804.3	809.6	810.9	818.9	829.4	834.7	844.9	865.3
165°	822.7	817.9	813.2	817.9	822.7	823.9	827.5	832.3	834.7	842.1	856.7
167.5°	830.7	828.4	826.2	828.4	830.7	831.2	834.3	838.3	840.3	845.1	854.7
170°	839.2	836.9	834.7	836.9	839.2	839.8	840.0	840.2	840.3	845.1	854.7
172.5°	840.2	839.7	839.2	839.7	840.2	840.3	840.3	840.3	840.3	844.1	851.7
175°	845.5	845.5	845.5	845.5	845.5	845.5	843.7	841.4	840.3	842.7	847.6
177.5°	845.5	845.5	845.5	845.5	845.5	845.5	844.2	842.4	841.5	843.5	847.2
180°	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5



TEST NUMBER: P934456

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8
2.5°	3710.2	3699.3	3713.8	3673.8	3713.8	3699.3	3710.2	3735.7	3713.8	3728.4	3743.0
5°	3255.5	3237.4	3179.2	3131.9	3179.2	3237.4	3255.5	3332.0	3368.3	3433.7	3521.1
7.5°	2910.0	2895.4	2880.9	2851.7	2880.9	2895.4	2910.0	2931.8	2968.2	3026.4	3091.9
10°	2833.6	2837.2	2859.1	2855.4	2859.1	2837.2	2833.6	2826.3	2815.4	2826.3	2866.3
12.5°	3030.0	3062.7	3182.7	3175.5	3182.7	3062.7	3030.0	2884.5	2786.3	2768.1	2775.4
15°	3255.5	3266.4	3292.0	3295.5	3292.0	3266.4	3255.5	3197.3	2902.7	2775.4	2735.4
17.5°	3277.4	3281.0	3299.2	3299.2	3299.2	3281.0	3277.4	3251.9	3153.7	2982.7	2757.2
20°	3259.2	3266.4	3302.8	3310.1	3302.8	3266.4	3259.2	3226.4	3171.9	3110.1	2939.1
22.5°	3251.9	3266.4	3295.5	3292.0	3295.5	3266.4	3251.9	3201.0	3153.7	3110.1	3041.0
25°	3215.5	3215.5	3219.2	3222.8	3219.2	3215.5	3215.5	3175.5	3081.0	3070.1	3030.0
27.5°	3139.2	3146.4	3168.3	3164.6	3168.3	3146.4	3139.2	3124.6	3022.7	3011.9	2982.7
30°	3070.1	3062.7	3044.5	3030.0	3044.5	3062.7	3070.1	3048.2	2946.4	2917.3	2924.5
32.5°	2953.6	2935.4	2917.3	2906.3	2917.3	2935.4	2953.6	2946.4	2870.0	2830.0	2837.2
35°	2815.4	2819.1	2815.4	2804.5	2815.4	2819.1	2815.4	2822.6	2775.4	2739.0	2735.4
37.5°	2717.2	2724.5	2720.9	2706.3	2720.9	2724.5	2717.2	2710.0	2644.4	2633.5	2640.9
40°	2615.3	2619.0	2615.3	2604.4	2615.3	2619.0	2615.3	2600.8	2509.9	2513.5	2539.0
42.5°	2517.1	2513.5	2502.6	2495.3	2502.6	2513.5	2517.1	2495.3	2378.9	2368.0	2415.3
45°	2404.4	2408.0	2386.2	2375.3	2386.2	2408.0	2404.4	2389.9	2269.8	2240.6	2273.4
47.5°	2291.6	2291.6	2273.4	2262.5	2273.4	2291.6	2291.6	2273.4	2146.1	2117.0	2135.2
50°	2171.5	2168.0	2142.5	2138.9	2142.5	2168.0	2171.5	2160.6	2026.1	2000.6	2000.6
52.5°	2033.3	2033.3	2037.0	2044.3	2037.0	2033.3	2033.3	2037.0	1917.0	1891.5	1884.2
55°	1913.3	1917.0	1942.4	1949.6	1942.4	1917.0	1913.3	1913.3	1804.2	1778.8	1764.2
57.5°	1789.6	1789.6	1807.9	1807.9	1807.9	1789.6	1789.6	1782.3	1676.9	1655.1	1647.8
60°	1647.8	1655.1	1669.6	1666.0	1669.6	1655.1	1647.8	1640.5	1549.5	1535.0	1509.5
62.5°	1498.6	1505.9	1509.5	1502.3	1509.5	1505.9	1498.6	1476.8	1422.2	1411.3	1378.6
65°	1342.2	1349.5	1353.1	1345.9	1353.1	1349.5	1342.2	1331.3	1291.3	1273.1	1244.0
67.5°	1182.2	1178.5	1174.9	1189.4	1174.9	1178.5	1182.2	1167.7	1142.2	1127.6	1087.6
70°	1018.5	1018.5	1014.9	1022.1	1014.9	1018.5	1018.5	1007.5	993.0	982.1	945.8
72.5°	843.9	840.2	854.8	843.9	854.8	840.2	843.9	840.2	833.0	822.1	785.7
75°	672.9	680.2	672.9	683.9	672.9	680.2	672.9	676.5	672.9	665.7	640.2
77.5°	512.9	520.1	512.9	512.9	512.9	520.1	512.9	516.5	516.5	516.5	494.7
80°	363.8	360.1	360.1	356.4	360.1	360.1	363.8	363.8	367.4	360.1	352.9
82.5°	232.8	229.1	229.1	236.4	229.1	229.1	232.8	236.4	229.1	229.1	229.1
85°	127.3	131.0	123.7	123.7	123.7	131.0	127.3	120.0	127.3	127.3	123.7
87.5°	47.3	43.7	43.7	43.7	43.7	43.7	47.3	50.9	50.9	50.9	54.6
90°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	28.7	38.4	43.1	37.1
92.5°	107.8	103.5	86.4	69.2	86.4	103.5	107.8	152.8	212.8	242.8	213.2
95°	366.0	352.9	301.0	249.1	301.0	352.9	366.0	480.6	633.4	709.8	599.5
97.5°	844.9	820.2	721.3	622.5	721.3	820.2	844.9	917.3	1014.0	1062.2	878.2
100°	1186.5	1157.0	1039.3	921.5	1039.3	1157.0	1186.5	1181.2	1174.1	1170.6	966.4
102.5°	1478.1	1452.9	1352.0	1251.2	1352.0	1452.9	1478.1	1385.8	1262.7	1201.3	994.2
105°	1818.6	1805.0	1750.9	1696.6	1750.9	1805.0	1818.6	1611.7	1335.8	1197.9	997.4
107.5°	1995.7	1999.0	2012.0	2025.2	2012.0	1999.0	1995.7	1707.1	1322.2	1129.8	953.0
110°	2041.0	2055.2	2111.6	2168.1	2111.6	2055.2	2041.0	1718.4	1288.2	1073.1	913.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2012.1	2033.8	2120.6	2207.3	2120.6	2033.8	2012.1	1681.9	1241.5	1021.4	879.2
115°	1913.9	1944.0	2064.4	2184.7	2064.4	1944.0	1913.9	1595.8	1171.6	959.5	839.9
117.5°	1778.3	1811.6	1945.1	2078.5	1945.1	1811.6	1778.3	1491.2	1108.4	917.0	815.2
120°	1687.0	1719.4	1849.1	1978.6	1849.1	1719.4	1687.0	1424.6	1074.9	900.0	806.9
122.5°	1595.6	1627.5	1755.5	1883.3	1755.5	1627.5	1595.6	1359.4	1044.3	886.9	802.5
125°	1474.7	1504.2	1621.9	1739.8	1621.9	1504.2	1474.7	1274.0	1006.5	872.7	798.9
127.5°	1377.7	1402.6	1501.9	1601.3	1501.9	1402.6	1377.7	1205.4	975.7	860.8	796.8
130°	1316.4	1339.4	1431.2	1523.0	1431.2	1339.4	1316.4	1163.1	958.5	856.3	798.1
132.5°	1264.2	1284.8	1367.0	1449.2	1367.0	1284.8	1264.2	1126.9	943.8	852.3	798.9
135°	1190.5	1208.2	1279.1	1349.9	1279.1	1208.2	1190.5	1075.5	922.2	845.5	798.2
137.5°	1136.0	1150.5	1208.5	1266.5	1208.5	1150.5	1136.0	1038.8	909.2	844.4	803.2
140°	1092.3	1105.9	1160.1	1214.3	1160.1	1105.9	1092.3	1008.4	896.3	840.3	803.9
142.5°	1061.7	1073.3	1120.0	1166.7	1120.0	1073.3	1061.7	987.9	889.5	840.3	806.8
145°	1015.7	1024.5	1059.8	1095.2	1059.8	1024.5	1015.7	955.4	874.9	834.7	806.8
147.5°	977.2	984.5	1013.7	1043.0	1013.7	984.5	977.2	929.7	866.4	834.7	812.4
150°	955.0	960.9	984.6	1008.4	984.6	960.9	955.0	914.9	861.4	834.7	815.3
152.5°	937.4	941.9	959.8	977.7	959.8	941.9	937.4	903.2	857.6	834.7	817.2
155°	916.4	919.3	931.3	943.1	931.3	919.3	916.4	889.2	852.9	834.7	821.3
157.5°	898.2	900.4	908.6	917.0	908.6	900.4	898.2	877.0	848.9	834.7	825.6
160°	889.2	890.3	895.2	900.0	895.2	890.3	889.2	871.0	846.8	834.7	827.4
162.5°	880.6	881.7	886.3	890.9	886.3	881.7	880.6	865.3	844.9	834.7	829.4
165°	867.6	868.8	873.6	878.4	873.6	868.8	867.6	856.7	842.1	834.7	832.3
167.5°	861.9	862.4	864.5	866.5	864.5	862.4	861.9	854.7	845.1	840.3	838.3
170°	861.9	861.9	861.9	861.9	861.9	861.9	861.9	854.7	845.1	840.3	840.2
172.5°	857.4	856.9	855.2	853.5	855.2	856.9	857.4	851.7	844.1	840.3	840.3
175°	851.2	851.2	851.2	851.2	851.2	851.2	851.2	847.6	842.7	840.3	841.4
177.5°	850.1	849.5	847.5	845.5	847.5	849.5	850.1	847.2	843.5	841.5	842.4
180°	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5	845.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3844.8	3844.8	3844.8	3844.8	3844.8
2.5°	3797.5	3815.7	3826.6	3841.2	3877.5
5°	3652.1	3721.2	3743.0	3797.5	3863.0
7.5°	3332.0	3542.9	3601.1	3732.1	3833.9
10°	3022.7	3233.7	3335.5	3644.7	3797.5
12.5°	2866.3	2990.0	3059.1	3492.0	3746.6
15°	2768.1	2855.4	2906.3	3288.3	3688.4
17.5°	2691.7	2753.5	2790.0	3088.2	3608.4
20°	2644.4	2673.5	2706.3	2942.7	3517.4
22.5°	2611.7	2593.5	2619.0	2840.9	3393.7
25°	2589.9	2520.8	2549.9	2760.9	3248.3
27.5°	2608.1	2455.3	2466.2	2688.1	3095.5
30°	2611.7	2375.3	2378.9	2611.7	2924.5
32.5°	2586.2	2291.6	2295.2	2517.1	2731.7
35°	2524.4	2193.4	2189.8	2408.0	2469.9
37.5°	2440.7	2087.9	2087.9	2288.0	2182.5
40°	2338.9	1982.4	1993.3	2131.5	1927.9
42.5°	2215.2	1869.6	1884.2	1924.2	1738.8
45°	2080.6	1760.5	1771.4	1626.0	1593.2
47.5°	1931.5	1647.8	1651.4	1349.5	1545.9
50°	1753.3	1531.4	1516.9	1156.8	1542.3
52.5°	1596.9	1404.1	1360.4	1047.5	1400.4
55°	1444.1	1269.4	1174.9	963.9	1298.5
57.5°	1309.5	1094.9	1004.0	865.8	1276.8
60°	1185.8	923.9	854.8	760.2	1171.3
62.5°	1084.0	796.7	782.1	687.4	1062.1
65°	974.9	709.3	705.7	625.7	902.1
67.5°	869.3	651.1	647.4	567.4	687.4
70°	756.6	589.3	582.0	505.6	509.2
72.5°	640.2	520.1	512.9	454.7	422.0
75°	523.8	440.1	436.5	396.4	341.9
77.5°	411.0	349.2	356.4	320.1	251.0
80°	294.7	254.7	261.9	229.1	189.1
82.5°	196.4	167.3	174.6	145.5	127.3
85°	109.1	94.6	98.2	76.4	58.2
87.5°	50.9	43.7	43.7	29.1	18.2
90°	25.0	15.9	14.8	10.2	5.7
92.5°	153.9	109.5	99.8	61.2	22.7
95°	378.8	213.4	195.7	125.1	54.5
97.5°	510.3	234.4	218.8	156.5	94.2
100°	558.1	251.9	237.8	181.3	124.8
102.5°	580.1	269.5	256.3	203.6	151.0
105°	596.3	295.6	284.4	239.8	195.2
107.5°	599.4	334.2	323.9	282.2	240.6
110°	594.8	355.8	346.4	308.8	271.3



TEST NUMBER: P934456

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	595.0	381.9	372.9	337.1	301.3
115°	600.5	421.0	412.8	379.7	346.7
117.5°	611.6	459.0	451.5	421.5	391.5
120°	620.7	481.1	474.1	445.9	417.6
122.5°	633.9	507.3	500.1	471.7	443.2
125°	651.5	540.8	534.3	508.3	482.3
127.5°	669.0	573.1	566.6	540.3	514.1
130°	681.8	594.7	587.6	559.4	531.2
132.5°	692.3	612.3	605.2	577.0	548.7
135°	703.6	632.7	626.2	600.5	574.8
137.5°	720.7	658.8	652.5	627.0	601.5
140°	731.0	676.3	670.5	647.1	623.6
142.5°	739.8	689.5	684.0	662.3	640.6
145°	751.1	709.3	704.5	685.6	666.7
147.5°	767.7	734.2	729.7	711.2	692.9
150°	776.5	747.3	743.1	726.4	709.8
152.5°	782.2	755.8	752.7	740.0	727.5
155°	794.6	774.5	772.2	762.9	753.5
157.5°	807.1	793.3	791.0	782.0	772.9
160°	812.8	801.8	800.0	793.0	785.9
162.5°	818.9	810.9	809.6	804.3	798.9
165°	827.5	823.9	822.7	817.9	813.2
167.5°	834.3	831.2	830.7	828.4	826.2
170°	840.0	839.8	839.2	836.9	834.7
172.5°	840.3	840.3	840.2	839.7	839.2
175°	843.7	845.5	845.5	845.5	845.5
177.5°	844.2	845.5	845.5	845.5	845.5
180°	845.5	845.5	845.5	845.5	845.5



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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	14.66	15.67	15.48	16.51	17.56	17.51	18.52	18.33	19.36	20.41
	3H	15.15	16.05	15.98	16.90	17.98	18.87	19.78	19.71	20.63	21.71
	4H	15.34	16.20	16.19	17.06	18.14	19.33	20.18	20.18	21.04	22.13
	6H	15.47	16.26	16.33	17.13	18.23	19.63	20.41	20.49	21.28	22.38
	8H	15.47	16.23	16.35	17.11	18.21	19.71	20.46	20.58	21.34	22.44
	12H	15.45	16.17	16.33	17.05	18.17	19.75	20.47	20.63	21.35	22.47
4H	2H	15.71	16.57	16.57	17.43	18.51	17.93	18.79	18.79	19.65	20.74
	3H	16.75	17.47	17.62	18.36	19.46	19.46	20.17	20.33	21.07	22.17
	4H	17.04	17.68	17.92	18.57	19.70	20.00	20.65	20.88	21.54	22.67
	6H	17.17	17.73	18.06	18.64	19.77	20.38	20.94	21.27	21.85	22.98
	8H	17.18	17.70	18.08	18.61	19.75	20.49	21.01	21.39	21.92	23.07
	12H	17.15	17.62	18.07	18.55	19.70	20.56	21.03	21.48	21.96	23.11
8H	4H	17.50	18.03	18.40	18.94	20.08	20.13	20.66	21.03	21.57	22.71
	6H	17.77	18.21	18.70	19.16	20.30	20.58	21.02	21.51	21.97	23.11
	8H	17.82	18.20	18.75	19.14	20.30	20.74	21.12	21.67	22.07	23.23
	12H	17.81	18.14	18.74	19.08	20.29	20.85	21.19	21.79	22.12	23.33
12H	4H	17.52	17.99	18.44	18.92	20.07	20.11	20.58	21.02	21.51	22.66
	6H	17.84	18.22	18.77	19.16	20.32	20.58	20.97	21.52	21.91	23.07
	8H	17.91	18.25	18.85	19.18	20.39	20.75	21.09	21.69	22.03	23.24