

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: P934425

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934425
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-92765-1D-UNV-STD-W-12-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

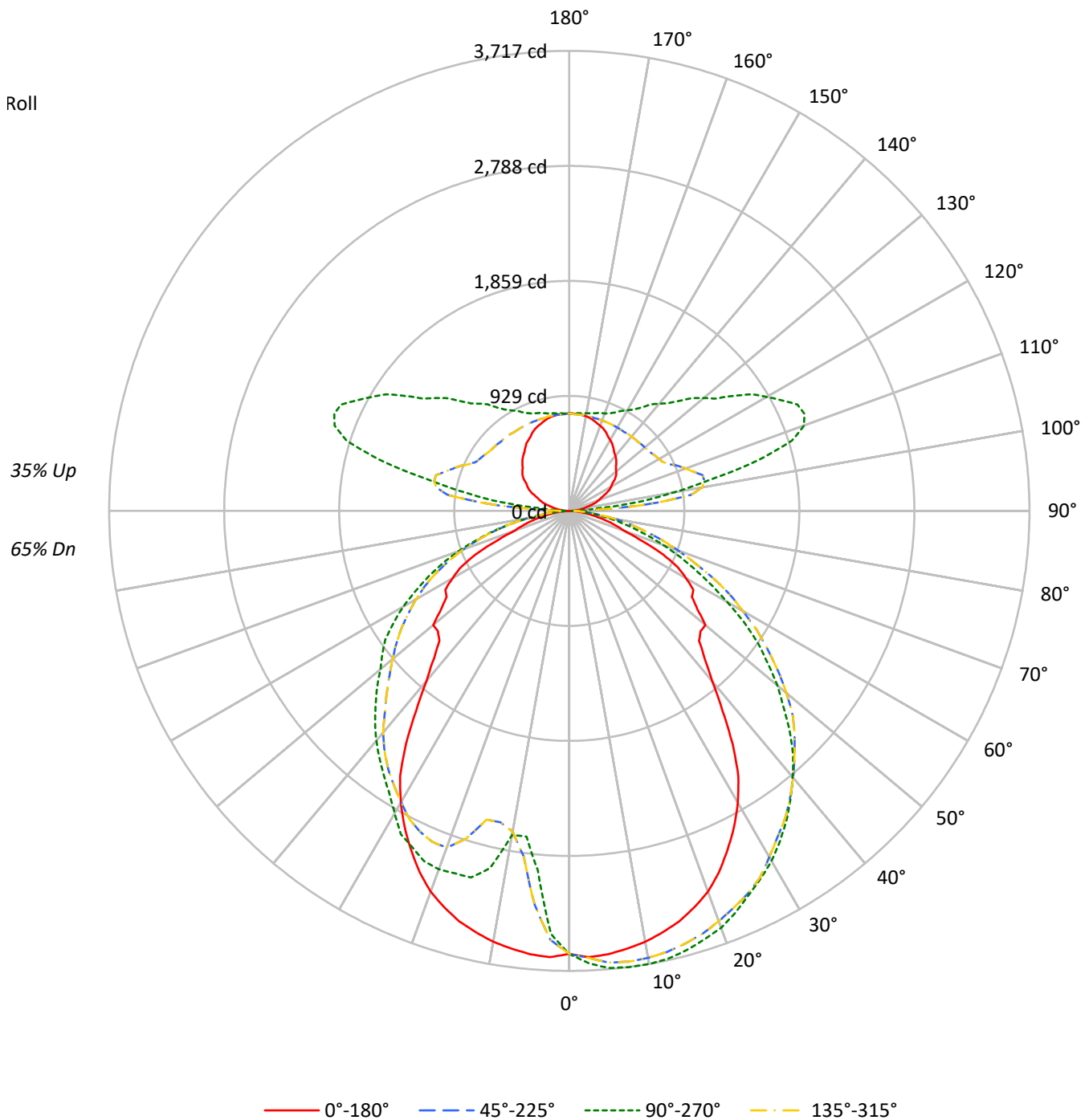
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14382.6 lumens
Efficiency: N/A
Efficacy: 106.1 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

TEST NUMBER: P934425
CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-2700K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11069	11069	11069	11069
5°	11156	11173	11156	8786
10°	11085	11006	11085	7869
15°	10968	10768	10968	8991
20°	10743	10485	10743	9010
25°	10278	10073	10278	8819
30°	9675	9731	9675	8400
35°	8630	9298	8630	7939
40°	7195	8789	7195	7591
45°	6433	8193	6433	7191
50°	6839	7482	6839	6789
55°	6441	6716	6441	6557
60°	6648	5704	6648	6005
65°	6037	4715	6037	5271
70°	4191	3757	4191	4418
75°	3688	2777	3688	3326
80°	2993	1836	2993	1999
85°	1756	972	1756	827

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9853 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.0	2.2
10°-20°	917.1	6.4
20°-30°	1417.7	9.9
30°-40°	1692.5	11.8
40°-50°	1702.4	11.8
50°-60°	1481.3	10.3
60°-70°	1050.3	7.3
70°-80°	555.6	3.9
80°-90°	141.4	1.0
90°-100°	383.6	2.7
100°-110°	1008.4	7.0
110°-120°	1045.6	7.3
120°-130°	838.7	5.8
130°-140°	658.1	4.6
140°-150°	505.1	3.5
150°-160°	363.8	2.5
160°-170°	222.6	1.5
170°-180°	75.2	0.5
0°-30°	2657.9	18.5
0°-40°	4350.4	30.2
0°-60°	7534.1	52.4
0°-90°	9281.4	64.5
90°-120°	2437.7	16.9
90°-150°	4439.6	30.9
90°-180°	5101.0	35.5
0°-180°	14382.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3578	3578	3578	3578	3578	
5°	3596	3707	3596	2915	3596	341
15°	3433	3673	3433	3067	3433	966
25°	3023	3426	3023	3000	3023	1388
35°	2299	3057	2299	2610	2299	1422
45°	1483	2519	1483	2211	1483	1188
55°	1209	1859	1209	1815	1209	1111
65°	840	1121	840	1253	840	802
75°	318	532	318	636	318	335
85°	54	135	54	115	54	73
90°	5	20	5	20	5	7
95°	51	232	51	232	51	56
105°	182	1579	182	1579	182	193
115°	323	2033	323	2033	323	319
125°	449	1619	449	1619	449	399
135°	535	1256	535	1256	535	414
145°	620	1019	620	1019	620	389
155°	701	878	701	878	701	322
165°	757	818	757	818	757	214
175°	787	792	787	792	787	75
180°	787	787	787	787	787	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5
2.5°	3608.9	3608.9	3629.3	3636.0	3636.0	3625.9	3615.7	3625.9	3656.4	3666.5	3663.1
5°	3595.5	3622.5	3659.8	3666.5	3673.3	3669.9	3663.1	3669.9	3703.8	3710.5	3713.9
7.5°	3568.3	3619.1	3666.5	3676.7	3686.8	3676.7	3673.3	3680.1	3713.9	3720.7	3720.7
10°	3534.5	3605.6	3659.8	3666.5	3676.7	3666.5	3666.5	3680.1	3713.9	3720.7	3724.1
12.5°	3487.1	3585.3	3636.0	3642.9	3656.4	3652.9	3649.6	3663.1	3697.0	3703.8	3703.8
15°	3432.9	3548.0	3595.5	3602.2	3625.9	3619.1	3619.1	3632.7	3669.9	3680.1	3676.7
17.5°	3358.4	3500.6	3554.8	3565.0	3581.9	3578.5	3581.9	3595.5	3629.3	3636.0	3639.4
20°	3273.8	3436.3	3500.6	3510.8	3527.7	3527.7	3527.7	3544.6	3578.5	3592.0	3592.0
22.5°	3158.7	3368.6	3436.3	3443.1	3463.4	3463.4	3470.2	3493.8	3524.3	3527.7	3527.7
25°	3023.3	3294.1	3351.7	3372.0	3392.3	3402.4	3412.6	3426.2	3436.3	3432.9	3436.3
27.5°	2881.1	3199.3	3273.8	3287.4	3314.4	3324.6	3338.1	3341.5	3344.9	3355.0	3348.3
30°	2721.9	3067.3	3179.0	3192.6	3236.5	3243.3	3229.8	3236.5	3253.5	3260.3	3267.0
32.5°	2542.5	2870.9	3080.8	3111.2	3151.9	3131.6	3128.2	3138.4	3165.5	3165.5	3172.2
35°	2298.8	2718.6	2989.4	3016.5	3046.9	3023.3	3036.8	3040.2	3057.1	3067.3	3063.9
37.5°	2031.3	2586.6	2894.6	2915.0	2938.6	2908.1	2928.5	2938.6	2952.2	2945.4	2945.4
40°	1794.4	2380.0	2782.9	2796.4	2816.7	2793.1	2813.3	2820.2	2826.9	2820.2	2816.7
42.5°	1618.3	2153.2	2664.4	2681.4	2667.8	2684.7	2691.4	2705.0	2694.9	2681.4	2681.4
45°	1482.9	2092.3	2535.7	2556.1	2535.7	2562.8	2573.0	2573.0	2542.5	2535.7	2532.4
47.5°	1438.9	1970.4	2407.1	2407.1	2396.9	2430.8	2447.8	2424.0	2393.5	2383.4	2383.4
50°	1435.4	1834.9	2231.1	2217.5	2264.9	2305.5	2288.6	2264.9	2241.2	2204.0	2204.0
52.5°	1303.4	1669.1	2004.2	2055.0	2129.5	2153.2	2126.1	2102.4	2061.8	2044.9	2031.3
55°	1208.6	1496.4	1797.7	1899.2	1977.1	2007.6	1956.8	1933.1	1872.2	1862.0	1855.3
57.5°	1188.3	1245.8	1608.2	1736.8	1831.6	1828.2	1797.7	1753.7	1702.9	1692.8	1689.4
60°	1090.1	900.5	1405.0	1557.3	1655.6	1645.4	1618.3	1577.7	1530.3	1523.5	1516.7
62.5°	988.6	653.4	1174.8	1347.5	1486.3	1482.9	1459.2	1398.2	1364.4	1347.5	1333.9
65°	839.6	548.4	836.2	1120.6	1320.3	1327.1	1276.3	1232.3	1195.1	1174.8	1171.4
67.5°	639.8	446.9	565.3	934.4	1161.3	1154.4	1090.1	1069.8	1022.4	1012.2	992.0
70°	474.0	297.9	392.7	758.4	1005.5	988.6	937.7	914.1	870.1	846.4	832.9
72.5°	392.7	240.4	287.8	589.1	846.4	826.0	782.0	755.0	717.7	697.4	683.9
75°	318.2	253.9	220.0	436.7	687.2	673.7	633.1	606.0	575.5	548.4	551.9
77.5°	233.6	237.0	176.0	321.7	545.1	524.8	501.0	467.2	453.6	426.6	426.6
80°	176.0	186.2	132.0	220.0	392.7	392.7	372.4	348.7	325.0	311.5	311.5
82.5°	118.5	118.5	98.1	138.8	267.4	257.3	243.8	237.0	223.4	216.7	216.7
85°	54.2	67.7	60.9	84.6	145.5	152.4	152.4	145.5	142.2	135.4	138.8
87.5°	16.9	30.5	37.2	47.4	74.5	77.9	81.2	81.2	81.2	84.6	84.6
90°	5.3	9.5	13.8	14.8	23.2	34.5	40.1	35.7	26.7	20.1	20.1
92.5°	21.1	57.0	92.9	101.9	143.2	198.4	226.0	198.1	142.2	100.4	96.3
95°	50.7	116.4	182.2	198.6	352.6	558.0	660.7	589.5	447.3	340.6	328.5
97.5°	87.6	145.6	203.6	218.1	475.0	817.4	988.7	943.7	853.8	786.4	763.4
100°	116.2	168.8	221.3	234.5	519.5	899.5	1089.5	1092.8	1099.3	1104.3	1076.9
102.5°	140.5	189.5	238.6	250.9	539.9	925.4	1118.1	1175.3	1289.8	1375.7	1352.3
105°	181.7	223.2	264.7	275.1	555.0	928.3	1114.9	1243.3	1500.0	1692.6	1680.0
107.5°	224.0	262.6	301.4	311.1	557.9	887.0	1051.5	1230.6	1588.8	1857.5	1860.5
110°	252.5	287.4	322.4	331.1	553.6	850.4	998.7	1198.9	1599.4	1899.7	1912.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	280.4	313.7	347.0	355.4	553.8	818.3	950.6	1155.5	1565.4	1872.8	1892.9
115°	322.7	353.4	384.2	391.9	558.9	781.7	893.1	1090.5	1485.2	1781.4	1809.4
117.5°	364.4	392.3	420.2	427.2	569.3	758.7	853.4	1031.6	1387.9	1655.1	1686.1
120°	388.7	415.0	441.2	447.8	577.7	751.0	837.6	1000.4	1325.9	1570.1	1600.3
122.5°	412.5	439.0	465.5	472.2	589.9	746.9	825.4	972.0	1265.2	1485.1	1514.8
125°	448.9	473.1	497.3	503.3	606.3	743.6	812.3	936.8	1185.8	1372.6	1400.0
127.5°	478.5	502.9	527.3	533.4	622.7	741.6	801.2	908.1	1121.9	1282.3	1305.4
130°	494.4	520.7	546.9	553.5	634.6	742.8	797.0	892.1	1082.5	1225.2	1246.6
132.5°	510.7	537.0	563.3	569.9	644.4	743.6	793.2	878.5	1048.9	1176.6	1195.8
135°	535.0	558.9	582.9	588.8	654.9	742.9	786.9	858.3	1001.0	1108.1	1124.5
137.5°	559.8	583.5	607.3	613.2	670.7	747.5	785.9	846.2	966.9	1057.3	1070.8
140°	580.4	602.2	624.0	629.5	680.4	748.2	782.1	834.2	938.5	1016.7	1029.3
142.5°	596.3	616.4	636.7	641.7	688.5	750.9	782.1	827.9	919.5	988.1	999.0
145°	620.5	638.1	655.7	660.2	699.1	750.9	776.9	814.3	889.2	945.3	953.5
147.5°	644.9	661.9	679.1	683.4	714.6	756.2	776.9	806.4	865.3	909.5	916.3
150°	660.7	676.1	691.7	695.5	722.7	758.8	776.9	801.8	851.5	888.8	894.4
152.5°	677.1	688.8	700.6	703.5	728.0	760.6	776.9	798.2	840.6	872.5	876.7
155°	701.3	710.0	718.7	720.9	739.6	764.4	776.9	793.8	827.6	852.9	855.7
157.5°	719.3	727.8	736.2	738.3	751.2	768.4	776.9	790.1	816.3	836.0	838.0
160°	731.5	738.1	744.6	746.3	756.5	770.1	776.9	788.2	810.7	827.6	828.7
162.5°	743.6	748.6	753.5	754.7	762.1	772.0	776.9	786.4	805.4	819.6	820.6
165°	756.8	761.3	765.7	766.8	770.2	774.7	776.9	783.7	797.3	807.5	808.6
167.5°	769.0	771.0	773.2	773.7	776.5	780.2	782.1	786.6	795.5	802.2	802.7
170°	776.9	779.0	781.1	781.6	781.8	782.0	782.1	786.6	795.5	802.2	802.2
172.5°	781.1	781.5	782.0	782.1	782.1	782.1	782.1	785.6	792.7	798.0	797.6
175°	786.9	786.9	786.9	786.9	785.3	783.1	782.1	784.3	788.9	792.2	792.2
177.5°	786.9	786.9	786.9	786.9	785.7	784.1	783.2	785.0	788.5	791.2	790.7
180°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5
2.5°	3669.9	3659.8	3669.9	3663.1	3666.5	3656.4	3625.9	3615.7	3625.9	3636.0	3636.0
5°	3713.9	3707.2	3713.9	3713.9	3710.5	3703.8	3669.9	3663.1	3669.9	3673.3	3666.5
7.5°	3727.4	3717.3	3727.4	3720.7	3720.7	3713.9	3680.1	3673.3	3676.7	3686.8	3676.7
10°	3727.4	3717.3	3727.4	3724.1	3720.7	3713.9	3680.1	3666.5	3666.5	3676.7	3666.5
12.5°	3710.5	3703.8	3710.5	3703.8	3703.8	3697.0	3663.1	3649.6	3652.9	3656.4	3642.9
15°	3683.4	3673.3	3683.4	3676.7	3680.1	3669.9	3632.7	3619.1	3619.1	3625.9	3602.2
17.5°	3642.9	3629.3	3642.9	3639.4	3636.0	3629.3	3595.5	3581.9	3578.5	3581.9	3565.0
20°	3595.5	3585.3	3595.5	3592.0	3592.0	3578.5	3544.6	3527.7	3527.7	3527.7	3510.8
22.5°	3521.0	3510.8	3521.0	3527.7	3527.7	3524.3	3493.8	3470.2	3463.4	3463.4	3443.1
25°	3436.3	3426.2	3436.3	3436.3	3432.9	3436.3	3426.2	3412.6	3402.4	3392.3	3372.0
27.5°	3355.0	3348.3	3355.0	3348.3	3355.0	3344.9	3341.5	3338.1	3324.6	3314.4	3287.4
30°	3273.8	3267.0	3273.8	3267.0	3260.3	3253.5	3236.5	3229.8	3243.3	3236.5	3192.6
32.5°	3172.2	3165.5	3172.2	3172.2	3165.5	3165.5	3138.4	3128.2	3131.6	3151.9	3111.2
35°	3067.3	3057.1	3067.3	3063.9	3067.3	3057.1	3040.2	3036.8	3023.3	3046.9	3016.5
37.5°	2945.4	2935.2	2945.4	2945.4	2945.4	2952.2	2938.6	2928.5	2908.1	2938.6	2915.0
40°	2820.2	2806.6	2820.2	2816.7	2820.2	2826.9	2820.2	2813.3	2793.1	2816.7	2796.4
42.5°	2677.9	2674.5	2677.9	2681.4	2681.4	2694.9	2705.0	2691.4	2684.7	2667.8	2681.4
45°	2525.6	2518.8	2525.6	2532.4	2535.7	2542.5	2573.0	2573.0	2562.8	2535.7	2556.1
47.5°	2363.1	2346.2	2363.1	2383.4	2383.4	2393.5	2424.0	2447.8	2430.8	2396.9	2407.1
50°	2190.4	2193.8	2190.4	2204.0	2204.0	2241.2	2264.9	2288.6	2305.5	2264.9	2217.5
52.5°	2021.1	2017.8	2021.1	2031.3	2044.9	2061.8	2102.4	2126.1	2153.2	2129.5	2055.0
55°	1851.8	1858.7	1851.8	1855.3	1862.0	1872.2	1933.1	1956.8	2007.6	1977.1	1899.2
57.5°	1682.6	1672.5	1682.6	1689.4	1692.8	1702.9	1753.7	1797.7	1828.2	1831.6	1736.8
60°	1486.3	1472.7	1486.3	1516.7	1523.5	1530.3	1577.7	1618.3	1645.4	1655.6	1557.3
62.5°	1313.6	1289.9	1313.6	1333.9	1347.5	1364.4	1398.2	1459.2	1482.9	1486.3	1347.5
65°	1130.8	1120.6	1130.8	1171.4	1174.8	1195.1	1232.3	1276.3	1327.1	1320.3	1120.6
67.5°	964.9	964.9	964.9	992.0	1012.2	1022.4	1069.8	1090.1	1154.4	1161.3	934.4
70°	812.5	809.1	812.5	832.9	846.4	870.1	914.1	937.7	988.6	1005.5	758.4
72.5°	667.0	663.6	667.0	683.9	697.4	717.7	755.0	782.0	826.0	846.4	589.1
75°	538.3	531.5	538.3	551.9	548.4	575.5	606.0	633.1	673.7	687.2	436.7
77.5°	413.1	413.1	413.1	426.6	426.6	453.6	467.2	501.0	524.8	545.1	321.7
80°	308.1	304.7	308.1	311.5	311.5	325.0	348.7	372.4	392.7	392.7	220.0
82.5°	216.7	209.9	216.7	216.7	216.7	223.4	237.0	243.8	257.3	267.4	138.8
85°	135.4	135.4	135.4	138.8	135.4	142.2	145.5	152.4	152.4	145.5	84.6
87.5°	88.1	84.6	88.1	84.6	84.6	81.2	81.2	81.2	77.9	74.5	47.4
90°	20.1	20.1	20.1	20.1	20.1	26.7	35.7	40.1	34.5	23.2	14.8
92.5°	80.4	64.4	80.4	96.3	100.4	142.2	198.1	226.0	198.4	143.2	101.9
95°	280.2	231.8	280.2	328.5	340.6	447.3	589.5	660.7	558.0	352.6	198.6
97.5°	671.3	579.4	671.3	763.4	786.4	853.8	943.7	988.7	817.4	475.0	218.1
100°	967.3	857.7	967.3	1076.9	1104.3	1099.3	1092.8	1089.5	899.5	519.5	234.5
102.5°	1258.4	1164.5	1258.4	1352.3	1375.7	1289.8	1175.3	1118.1	925.4	539.9	250.9
105°	1629.6	1579.1	1629.6	1680.0	1692.6	1500.0	1243.3	1114.9	928.3	555.0	275.1
107.5°	1872.7	1884.9	1872.7	1860.5	1857.5	1588.8	1230.6	1051.5	887.0	557.9	311.1
110°	1965.3	2018.0	1965.3	1912.8	1899.7	1599.4	1198.9	998.7	850.4	553.6	331.1



TEST NUMBER: P934425

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1973.7	2054.4	1973.7	1892.9	1872.8	1565.4	1155.5	950.6	818.3	553.8	355.4
115°	1921.4	2033.3	1921.4	1809.4	1781.4	1485.2	1090.5	893.1	781.7	558.9	391.9
117.5°	1810.3	1934.5	1810.3	1686.1	1655.1	1387.9	1031.6	853.4	758.7	569.3	427.2
120°	1721.0	1841.6	1721.0	1600.3	1570.1	1325.9	1000.4	837.6	751.0	577.7	447.8
122.5°	1633.9	1752.8	1633.9	1514.8	1485.1	1265.2	972.0	825.4	746.9	589.9	472.2
125°	1509.6	1619.3	1509.6	1400.0	1372.6	1185.8	936.8	812.3	743.6	606.3	503.3
127.5°	1397.9	1490.4	1397.9	1305.4	1282.3	1121.9	908.1	801.2	741.6	622.7	533.4
130°	1332.1	1417.5	1332.1	1246.6	1225.2	1082.5	892.1	797.0	742.8	634.6	553.5
132.5°	1272.3	1348.8	1272.3	1195.8	1176.6	1048.9	878.5	793.2	743.6	644.4	569.9
135°	1190.5	1256.4	1190.5	1124.5	1108.1	1001.0	858.3	786.9	742.9	654.9	588.8
137.5°	1124.8	1178.8	1124.8	1070.8	1057.3	966.9	846.2	785.9	747.5	670.7	613.2
140°	1079.7	1130.2	1079.7	1029.3	1016.7	938.5	834.2	782.1	748.2	680.4	629.5
142.5°	1042.5	1085.9	1042.5	999.0	988.1	919.5	827.9	782.1	750.9	688.5	641.7
145°	986.4	1019.3	986.4	953.5	945.3	889.2	814.3	776.9	750.9	699.1	660.2
147.5°	943.5	970.7	943.5	916.3	909.5	865.3	806.4	776.9	756.2	714.6	683.4
150°	916.4	938.5	916.4	894.4	888.8	851.5	801.8	776.9	758.8	722.7	695.5
152.5°	893.3	910.0	893.3	876.7	872.5	840.6	798.2	776.9	760.6	728.0	703.5
155°	866.8	877.8	866.8	855.7	852.9	827.6	793.8	776.9	764.4	739.6	720.9
157.5°	845.7	853.4	845.7	838.0	836.0	816.3	790.1	776.9	768.4	751.2	738.3
160°	833.2	837.6	833.2	828.7	827.6	810.7	788.2	776.9	770.1	756.5	746.3
162.5°	824.9	829.2	824.9	820.6	819.6	805.4	786.4	776.9	772.0	762.1	754.7
165°	813.1	817.6	813.1	808.6	807.5	797.3	783.7	776.9	774.7	770.2	766.8
167.5°	804.6	806.5	804.6	802.7	802.2	795.5	786.6	782.1	780.2	776.5	773.7
170°	802.2	802.2	802.2	802.2	802.2	795.5	786.6	782.1	782.0	781.8	781.6
172.5°	796.0	794.3	796.0	797.6	798.0	792.7	785.6	782.1	782.1	782.1	782.1
175°	792.2	792.2	792.2	792.2	792.2	788.9	784.3	782.1	783.1	785.3	786.9
177.5°	788.8	786.9	788.8	790.7	791.2	788.5	785.0	783.2	784.1	785.7	786.9
180°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5
2.5°	3629.3	3608.9	3608.9	3575.1	3561.5	3551.4	3534.5	3483.7	3470.2	3456.6	3476.9
5°	3659.8	3622.5	3595.5	3534.5	3483.7	3463.4	3399.1	3277.2	3195.9	3135.0	3101.2
7.5°	3666.5	3619.1	3568.3	3473.6	3351.7	3297.5	3101.2	2877.7	2816.7	2762.6	2728.7
10°	3659.8	3605.6	3534.5	3392.3	3104.5	3009.7	2813.3	2667.8	2630.5	2620.4	2630.5
12.5°	3636.0	3585.3	3487.1	3250.1	2847.2	2782.9	2667.8	2583.1	2576.4	2593.3	2684.7
15°	3595.5	3548.0	3432.9	3060.5	2705.0	2657.6	2576.4	2545.9	2583.1	2701.6	2975.9
17.5°	3554.8	3500.6	3358.4	2874.3	2596.7	2562.8	2505.2	2566.2	2776.1	2935.2	3026.7
20°	3500.6	3436.3	3273.8	2738.8	2518.8	2488.3	2461.3	2735.5	2894.6	2952.2	3002.9
22.5°	3436.3	3368.6	3158.7	2644.1	2437.6	2413.9	2430.8	2830.3	2894.6	2935.2	2979.3
25°	3351.7	3294.1	3023.3	2569.6	2373.3	2346.2	2410.5	2820.2	2857.4	2867.6	2955.5
27.5°	3273.8	3199.3	2881.1	2501.9	2295.4	2285.2	2427.4	2776.1	2803.2	2813.3	2908.1
30°	3179.0	3067.3	2721.9	2430.8	2214.2	2210.7	2430.8	2721.9	2715.2	2742.3	2837.1
32.5°	3080.8	2870.9	2542.5	2342.8	2136.3	2132.8	2407.1	2640.7	2634.0	2671.2	2742.3
35°	2989.4	2718.6	2298.8	2241.2	2038.1	2041.5	2349.5	2545.9	2549.3	2583.1	2627.1
37.5°	2894.6	2586.6	2031.3	2129.5	1943.3	1943.3	2271.6	2457.9	2451.1	2461.3	2522.2
40°	2782.9	2380.0	1794.4	1983.9	1855.3	1845.1	2176.9	2363.1	2339.4	2336.0	2420.7
42.5°	2664.4	2153.2	1618.3	1790.9	1753.7	1740.1	2061.8	2248.0	2204.0	2214.2	2322.5
45°	2535.7	2092.3	1482.9	1513.3	1648.7	1638.6	1936.5	2115.9	2085.4	2112.6	2224.3
47.5°	2407.1	1970.4	1438.9	1256.0	1537.0	1533.7	1797.7	1987.3	1970.4	1997.5	2115.9
50°	2231.1	1834.9	1435.4	1076.6	1411.8	1425.3	1631.8	1862.0	1862.0	1885.7	2011.0
52.5°	2004.2	1669.1	1303.4	975.0	1266.2	1306.8	1486.3	1753.7	1760.4	1784.2	1895.9
55°	1797.7	1496.4	1208.6	897.2	1093.5	1181.5	1344.1	1642.0	1655.6	1679.2	1780.8
57.5°	1608.2	1245.8	1188.3	805.8	934.4	1019.1	1218.8	1533.7	1540.4	1560.7	1658.9
60°	1405.0	900.5	1090.1	707.6	795.6	859.9	1103.7	1405.0	1428.7	1442.2	1526.8
62.5°	1174.8	653.4	988.6	639.8	727.9	741.5	1008.9	1283.1	1313.6	1323.7	1374.5
65°	836.2	548.4	839.6	582.3	656.8	660.2	907.3	1157.9	1184.9	1201.8	1239.1
67.5°	565.3	446.9	639.8	528.1	602.6	606.0	809.1	1012.2	1049.5	1063.0	1086.8
70°	392.7	297.9	474.0	470.6	541.7	548.4	704.2	880.3	914.1	924.3	937.7
72.5°	287.8	240.4	392.7	423.2	477.4	484.1	595.8	731.3	765.1	775.3	782.0
75°	220.0	253.9	318.2	369.0	406.2	409.6	487.5	595.8	619.6	626.3	629.7
77.5°	176.0	237.0	233.6	297.9	331.7	325.0	382.6	460.5	480.7	480.7	480.7
80°	132.0	186.2	176.0	213.3	243.8	237.0	274.3	328.4	335.2	341.9	338.6
82.5°	98.1	118.5	118.5	135.4	162.5	155.7	182.8	213.3	213.3	213.3	220.0
85°	60.9	67.7	54.2	71.1	91.4	88.1	101.6	115.1	118.5	118.5	111.7
87.5°	37.2	30.5	16.9	27.1	40.7	40.7	47.4	50.8	47.4	47.4	47.4
90°	13.8	9.5	5.3	9.5	13.8	14.8	23.2	34.5	40.1	35.7	26.7
92.5°	92.9	57.0	21.1	57.0	92.9	101.9	143.2	198.4	226.0	198.1	142.2
95°	182.2	116.4	50.7	116.4	182.2	198.6	352.6	558.0	660.7	589.5	447.3
97.5°	203.6	145.6	87.6	145.6	203.6	218.1	475.0	817.4	988.7	943.7	853.8
100°	221.3	168.8	116.2	168.8	221.3	234.5	519.5	899.5	1089.5	1092.8	1099.3
102.5°	238.6	189.5	140.5	189.5	238.6	250.9	539.9	925.4	1118.1	1175.3	1289.8
105°	264.7	223.2	181.7	223.2	264.7	275.1	555.0	928.3	1114.9	1243.3	1500.0
107.5°	301.4	262.6	224.0	262.6	301.4	311.1	557.9	887.0	1051.5	1230.6	1588.8
110°	322.4	287.4	252.5	287.4	322.4	331.1	553.6	850.4	998.7	1198.9	1599.4



TEST NUMBER: P934425

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	347.0	313.7	280.4	313.7	347.0	355.4	553.8	818.3	950.6	1155.5	1565.4
115°	384.2	353.4	322.7	353.4	384.2	391.9	558.9	781.7	893.1	1090.5	1485.2
117.5°	420.2	392.3	364.4	392.3	420.2	427.2	569.3	758.7	853.4	1031.6	1387.9
120°	441.2	415.0	388.7	415.0	441.2	447.8	577.7	751.0	837.6	1000.4	1325.9
122.5°	465.5	439.0	412.5	439.0	465.5	472.2	589.9	746.9	825.4	972.0	1265.2
125°	497.3	473.1	448.9	473.1	497.3	503.3	606.3	743.6	812.3	936.8	1185.8
127.5°	527.3	502.9	478.5	502.9	527.3	533.4	622.7	741.6	801.2	908.1	1121.9
130°	546.9	520.7	494.4	520.7	546.9	553.5	634.6	742.8	797.0	892.1	1082.5
132.5°	563.3	537.0	510.7	537.0	563.3	569.9	644.4	743.6	793.2	878.5	1048.9
135°	582.9	558.9	535.0	558.9	582.9	588.8	654.9	742.9	786.9	858.3	1001.0
137.5°	607.3	583.5	559.8	583.5	607.3	613.2	670.7	747.5	785.9	846.2	966.9
140°	624.0	602.2	580.4	602.2	624.0	629.5	680.4	748.2	782.1	834.2	938.5
142.5°	636.7	616.4	596.3	616.4	636.7	641.7	688.5	750.9	782.1	827.9	919.5
145°	655.7	638.1	620.5	638.1	655.7	660.2	699.1	750.9	776.9	814.3	889.2
147.5°	679.1	661.9	644.9	661.9	679.1	683.4	714.6	756.2	776.9	806.4	865.3
150°	691.7	676.1	660.7	676.1	691.7	695.5	722.7	758.8	776.9	801.8	851.5
152.5°	700.6	688.8	677.1	688.8	700.6	703.5	728.0	760.6	776.9	798.2	840.6
155°	718.7	710.0	701.3	710.0	718.7	720.9	739.6	764.4	776.9	793.8	827.6
157.5°	736.2	727.8	719.3	727.8	736.2	738.3	751.2	768.4	776.9	790.1	816.3
160°	744.6	738.1	731.5	738.1	744.6	746.3	756.5	770.1	776.9	788.2	810.7
162.5°	753.5	748.6	743.6	748.6	753.5	754.7	762.1	772.0	776.9	786.4	805.4
165°	765.7	761.3	756.8	761.3	765.7	766.8	770.2	774.7	776.9	783.7	797.3
167.5°	773.2	771.0	769.0	771.0	773.2	773.7	776.5	780.2	782.1	786.6	795.5
170°	781.1	779.0	776.9	779.0	781.1	781.6	781.8	782.0	782.1	786.6	795.5
172.5°	782.0	781.5	781.1	781.5	782.0	782.1	782.1	782.1	782.1	785.6	792.7
175°	786.9	786.9	786.9	786.9	786.9	786.9	785.3	783.1	782.1	784.3	788.9
177.5°	786.9	786.9	786.9	786.9	786.9	786.9	785.7	784.1	783.2	785.0	788.5
180°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9



TEST NUMBER: P934425
 CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5	3578.5
2.5°	3453.2	3443.1	3456.6	3419.3	3456.6	3443.1	3453.2	3476.9	3456.6	3470.2	3483.7
5°	3030.0	3013.1	2959.0	2915.0	2959.0	3013.1	3030.0	3101.2	3135.0	3195.9	3277.2
7.5°	2708.4	2694.9	2681.4	2654.2	2681.4	2694.9	2708.4	2728.7	2762.6	2816.7	2877.7
10°	2637.3	2640.7	2661.0	2657.6	2661.0	2640.7	2637.3	2630.5	2620.4	2630.5	2667.8
12.5°	2820.2	2850.6	2962.3	2955.5	2962.3	2850.6	2820.2	2684.7	2593.3	2576.4	2583.1
15°	3030.0	3040.2	3063.9	3067.3	3063.9	3040.2	3030.0	2975.9	2701.6	2583.1	2545.9
17.5°	3050.3	3053.8	3070.7	3070.7	3070.7	3053.8	3050.3	3026.7	2935.2	2776.1	2566.2
20°	3033.4	3040.2	3074.0	3080.8	3074.0	3040.2	3033.4	3002.9	2952.2	2894.6	2735.5
22.5°	3026.7	3040.2	3067.3	3063.9	3067.3	3040.2	3026.7	2979.3	2935.2	2894.6	2830.3
25°	2992.8	2992.8	2996.2	2999.5	2996.2	2992.8	2992.8	2955.5	2867.6	2857.4	2820.2
27.5°	2921.7	2928.5	2948.8	2945.4	2948.8	2928.5	2921.7	2908.1	2813.3	2803.2	2776.1
30°	2857.4	2850.6	2833.7	2820.2	2833.7	2850.6	2857.4	2837.1	2742.3	2715.2	2721.9
32.5°	2749.0	2732.1	2715.2	2705.0	2715.2	2732.1	2749.0	2742.3	2671.2	2634.0	2640.7
35°	2620.4	2623.8	2620.4	2610.2	2620.4	2623.8	2620.4	2627.1	2583.1	2549.3	2545.9
37.5°	2529.0	2535.7	2532.4	2518.8	2532.4	2535.7	2529.0	2522.2	2461.3	2451.1	2457.9
40°	2434.2	2437.6	2434.2	2424.0	2434.2	2437.6	2434.2	2420.7	2336.0	2339.4	2363.1
42.5°	2342.8	2339.4	2329.2	2322.5	2329.2	2339.4	2342.8	2322.5	2214.2	2204.0	2248.0
45°	2237.8	2241.2	2220.9	2210.7	2220.9	2241.2	2237.8	2224.3	2112.6	2085.4	2115.9
47.5°	2132.8	2132.8	2115.9	2105.8	2115.9	2132.8	2132.8	2115.9	1997.5	1970.4	1987.3
50°	2021.1	2017.8	1994.0	1990.7	1994.0	2017.8	2021.1	2011.0	1885.7	1862.0	1862.0
52.5°	1892.5	1892.5	1895.9	1902.7	1895.9	1892.5	1892.5	1895.9	1784.2	1760.4	1753.7
55°	1780.8	1784.2	1807.8	1814.6	1807.8	1784.2	1780.8	1780.8	1679.2	1655.6	1642.0
57.5°	1665.6	1665.6	1682.6	1682.6	1682.6	1665.6	1665.6	1658.9	1560.7	1540.4	1533.7
60°	1533.7	1540.4	1553.9	1550.6	1553.9	1540.4	1533.7	1526.8	1442.2	1428.7	1405.0
62.5°	1394.8	1401.6	1405.0	1398.2	1405.0	1401.6	1394.8	1374.5	1323.7	1313.6	1283.1
65°	1249.2	1256.0	1259.4	1252.7	1259.4	1256.0	1249.2	1239.1	1201.8	1184.9	1157.9
67.5°	1100.3	1096.9	1093.5	1107.0	1093.5	1096.9	1100.3	1086.8	1063.0	1049.5	1012.2
70°	947.9	947.9	944.6	951.3	944.6	947.9	947.9	937.7	924.3	914.1	880.3
72.5°	785.5	782.0	795.6	785.5	795.6	782.0	785.5	782.0	775.3	765.1	731.3
75°	626.3	633.1	626.3	636.5	626.3	633.1	626.3	629.7	626.3	619.6	595.8
77.5°	477.4	484.1	477.4	477.4	477.4	484.1	477.4	480.7	480.7	480.7	460.5
80°	338.6	335.2	335.2	331.7	335.2	335.2	338.6	338.6	341.9	335.2	328.4
82.5°	216.7	213.3	213.3	220.0	213.3	213.3	216.7	220.0	213.3	213.3	213.3
85°	118.5	121.9	115.1	115.1	115.1	121.9	118.5	111.7	118.5	118.5	115.1
87.5°	44.0	40.7	40.7	40.7	40.7	40.7	44.0	47.4	47.4	47.4	50.8
90°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	26.7	35.7	40.1	34.5
92.5°	100.4	96.3	80.4	64.4	80.4	96.3	100.4	142.2	198.1	226.0	198.4
95°	340.6	328.5	280.2	231.8	280.2	328.5	340.6	447.3	589.5	660.7	558.0
97.5°	786.4	763.4	671.3	579.4	671.3	763.4	786.4	853.8	943.7	988.7	817.4
100°	1104.3	1076.9	967.3	857.7	967.3	1076.9	1104.3	1099.3	1092.8	1089.5	899.5
102.5°	1375.7	1352.3	1258.4	1164.5	1258.4	1352.3	1375.7	1289.8	1175.3	1118.1	925.4
105°	1692.6	1680.0	1629.6	1579.1	1629.6	1680.0	1692.6	1500.0	1243.3	1114.9	928.3
107.5°	1857.5	1860.5	1872.7	1884.9	1872.7	1860.5	1857.5	1588.8	1230.6	1051.5	887.0
110°	1899.7	1912.8	1965.3	2018.0	1965.3	1912.8	1899.7	1599.4	1198.9	998.7	850.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1872.8	1892.9	1973.7	2054.4	1973.7	1892.9	1872.8	1565.4	1155.5	950.6	818.3
115°	1781.4	1809.4	1921.4	2033.3	1921.4	1809.4	1781.4	1485.2	1090.5	893.1	781.7
117.5°	1655.1	1686.1	1810.3	1934.5	1810.3	1686.1	1655.1	1387.9	1031.6	853.4	758.7
120°	1570.1	1600.3	1721.0	1841.6	1721.0	1600.3	1570.1	1325.9	1000.4	837.6	751.0
122.5°	1485.1	1514.8	1633.9	1752.8	1633.9	1514.8	1485.1	1265.2	972.0	825.4	746.9
125°	1372.6	1400.0	1509.6	1619.3	1509.6	1400.0	1372.6	1185.8	936.8	812.3	743.6
127.5°	1282.3	1305.4	1397.9	1490.4	1397.9	1305.4	1282.3	1121.9	908.1	801.2	741.6
130°	1225.2	1246.6	1332.1	1417.5	1332.1	1246.6	1225.2	1082.5	892.1	797.0	742.8
132.5°	1176.6	1195.8	1272.3	1348.8	1272.3	1195.8	1176.6	1048.9	878.5	793.2	743.6
135°	1108.1	1124.5	1190.5	1256.4	1190.5	1124.5	1108.1	1001.0	858.3	786.9	742.9
137.5°	1057.3	1070.8	1124.8	1178.8	1124.8	1070.8	1057.3	966.9	846.2	785.9	747.5
140°	1016.7	1029.3	1079.7	1130.2	1079.7	1029.3	1016.7	938.5	834.2	782.1	748.2
142.5°	988.1	999.0	1042.5	1085.9	1042.5	999.0	988.1	919.5	827.9	782.1	750.9
145°	945.3	953.5	986.4	1019.3	986.4	953.5	945.3	889.2	814.3	776.9	750.9
147.5°	909.5	916.3	943.5	970.7	943.5	916.3	909.5	865.3	806.4	776.9	756.2
150°	888.8	894.4	916.4	938.5	916.4	894.4	888.8	851.5	801.8	776.9	758.8
152.5°	872.5	876.7	893.3	910.0	893.3	876.7	872.5	840.6	798.2	776.9	760.6
155°	852.9	855.7	866.8	877.8	866.8	855.7	852.9	827.6	793.8	776.9	764.4
157.5°	836.0	838.0	845.7	853.4	845.7	838.0	836.0	816.3	790.1	776.9	768.4
160°	827.6	828.7	833.2	837.6	833.2	828.7	827.6	810.7	788.2	776.9	770.1
162.5°	819.6	820.6	824.9	829.2	824.9	820.6	819.6	805.4	786.4	776.9	772.0
165°	807.5	808.6	813.1	817.6	813.1	808.6	807.5	797.3	783.7	776.9	774.7
167.5°	802.2	802.7	804.6	806.5	804.6	802.7	802.2	795.5	786.6	782.1	780.2
170°	802.2	802.2	802.2	802.2	802.2	802.2	802.2	795.5	786.6	782.1	782.0
172.5°	798.0	797.6	796.0	794.3	796.0	797.6	798.0	792.7	785.6	782.1	782.1
175°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	788.9	784.3	782.1	783.1
177.5°	791.2	790.7	788.8	786.9	788.8	790.7	791.2	788.5	785.0	783.2	784.1
180°	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9	786.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3578.5	3578.5	3578.5	3578.5	3578.5
2.5°	3534.5	3551.4	3561.5	3575.1	3608.9
5°	3399.1	3463.4	3483.7	3534.5	3595.5
7.5°	3101.2	3297.5	3351.7	3473.6	3568.3
10°	2813.3	3009.7	3104.5	3392.3	3534.5
12.5°	2667.8	2782.9	2847.2	3250.1	3487.1
15°	2576.4	2657.6	2705.0	3060.5	3432.9
17.5°	2505.2	2562.8	2596.7	2874.3	3358.4
20°	2461.3	2488.3	2518.8	2738.8	3273.8
22.5°	2430.8	2413.9	2437.6	2644.1	3158.7
25°	2410.5	2346.2	2373.3	2569.6	3023.3
27.5°	2427.4	2285.2	2295.4	2501.9	2881.1
30°	2430.8	2210.7	2214.2	2430.8	2721.9
32.5°	2407.1	2132.8	2136.3	2342.8	2542.5
35°	2349.5	2041.5	2038.1	2241.2	2298.8
37.5°	2271.6	1943.3	1943.3	2129.5	2031.3
40°	2176.9	1845.1	1855.3	1983.9	1794.4
42.5°	2061.8	1740.1	1753.7	1790.9	1618.3
45°	1936.5	1638.6	1648.7	1513.3	1482.9
47.5°	1797.7	1533.7	1537.0	1256.0	1438.9
50°	1631.8	1425.3	1411.8	1076.6	1435.4
52.5°	1486.3	1306.8	1266.2	975.0	1303.4
55°	1344.1	1181.5	1093.5	897.2	1208.6
57.5°	1218.8	1019.1	934.4	805.8	1188.3
60°	1103.7	859.9	795.6	707.6	1090.1
62.5°	1008.9	741.5	727.9	639.8	988.6
65°	907.3	660.2	656.8	582.3	839.6
67.5°	809.1	606.0	602.6	528.1	639.8
70°	704.2	548.4	541.7	470.6	474.0
72.5°	595.8	484.1	477.4	423.2	392.7
75°	487.5	409.6	406.2	369.0	318.2
77.5°	382.6	325.0	331.7	297.9	233.6
80°	274.3	237.0	243.8	213.3	176.0
82.5°	182.8	155.7	162.5	135.4	118.5
85°	101.6	88.1	91.4	71.1	54.2
87.5°	47.4	40.7	40.7	27.1	16.9
90°	23.2	14.8	13.8	9.5	5.3
92.5°	143.2	101.9	92.9	57.0	21.1
95°	352.6	198.6	182.2	116.4	50.7
97.5°	475.0	218.1	203.6	145.6	87.6
100°	519.5	234.5	221.3	168.8	116.2
102.5°	539.9	250.9	238.6	189.5	140.5
105°	555.0	275.1	264.7	223.2	181.7
107.5°	557.9	311.1	301.4	262.6	224.0
110°	553.6	331.1	322.4	287.4	252.5



TEST NUMBER: P934425

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	553.8	355.4	347.0	313.7	280.4
115°	558.9	391.9	384.2	353.4	322.7
117.5°	569.3	427.2	420.2	392.3	364.4
120°	577.7	447.8	441.2	415.0	388.7
122.5°	589.9	472.2	465.5	439.0	412.5
125°	606.3	503.3	497.3	473.1	448.9
127.5°	622.7	533.4	527.3	502.9	478.5
130°	634.6	553.5	546.9	520.7	494.4
132.5°	644.4	569.9	563.3	537.0	510.7
135°	654.9	588.8	582.9	558.9	535.0
137.5°	670.7	613.2	607.3	583.5	559.8
140°	680.4	629.5	624.0	602.2	580.4
142.5°	688.5	641.7	636.7	616.4	596.3
145°	699.1	660.2	655.7	638.1	620.5
147.5°	714.6	683.4	679.1	661.9	644.9
150°	722.7	695.5	691.7	676.1	660.7
152.5°	728.0	703.5	700.6	688.8	677.1
155°	739.6	720.9	718.7	710.0	701.3
157.5°	751.2	738.3	736.2	727.8	719.3
160°	756.5	746.3	744.6	738.1	731.5
162.5°	762.1	754.7	753.5	748.6	743.6
165°	770.2	766.8	765.7	761.3	756.8
167.5°	776.5	773.7	773.2	771.0	769.0
170°	781.8	781.6	781.1	779.0	776.9
172.5°	782.1	782.1	782.0	781.5	781.1
175°	785.3	786.9	786.9	786.9	786.9
177.5°	785.7	786.9	786.9	786.9	786.9
180°	786.9	786.9	786.9	786.9	786.9



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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	14.41	15.42	15.23	16.26	17.31	17.26	18.27	18.08	19.11	20.16
	3H	14.90	15.80	15.73	16.65	17.73	18.62	19.53	19.46	20.38	21.46
	4H	15.09	15.95	15.94	16.81	17.90	19.08	19.93	19.93	20.79	21.88
	6H	15.22	16.01	16.08	16.88	17.98	19.38	20.16	20.24	21.03	22.13
	8H	15.23	15.98	16.10	16.86	17.96	19.46	20.21	20.33	21.09	22.19
	12H	15.20	15.92	16.08	16.80	17.92	19.50	20.22	20.38	21.10	22.22
4H	2H	15.46	16.32	16.32	17.18	18.26	17.69	18.54	18.54	19.40	20.49
	3H	16.50	17.22	17.37	18.11	19.21	19.21	19.92	20.08	20.82	21.92
	4H	16.79	17.44	17.67	18.33	19.45	19.75	20.40	20.63	21.29	22.42
	6H	16.92	17.48	17.81	18.39	19.52	20.13	20.69	21.02	21.60	22.73
	8H	16.93	17.45	17.83	18.36	19.50	20.24	20.77	21.14	21.67	22.82
	12H	16.90	17.37	17.82	18.30	19.45	20.31	20.78	21.23	21.71	22.86
8H	4H	17.26	17.78	18.15	18.69	19.83	19.89	20.41	20.78	21.32	22.46
	6H	17.52	17.96	18.45	18.91	20.05	20.33	20.77	21.26	21.72	22.86
	8H	17.57	17.95	18.50	18.89	20.05	20.49	20.87	21.43	21.82	22.98
	12H	17.56	17.90	18.50	18.83	20.04	20.60	20.94	21.54	21.87	23.08
12H	4H	17.27	17.74	18.19	18.67	19.82	19.86	20.33	20.77	21.26	22.41
	6H	17.59	17.97	18.52	18.91	20.07	20.33	20.72	21.27	21.66	22.82
	8H	17.66	18.00	18.60	18.93	20.14	20.50	20.84	21.44	21.78	22.99