

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: P934453

Luminaire Tested: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934453
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-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

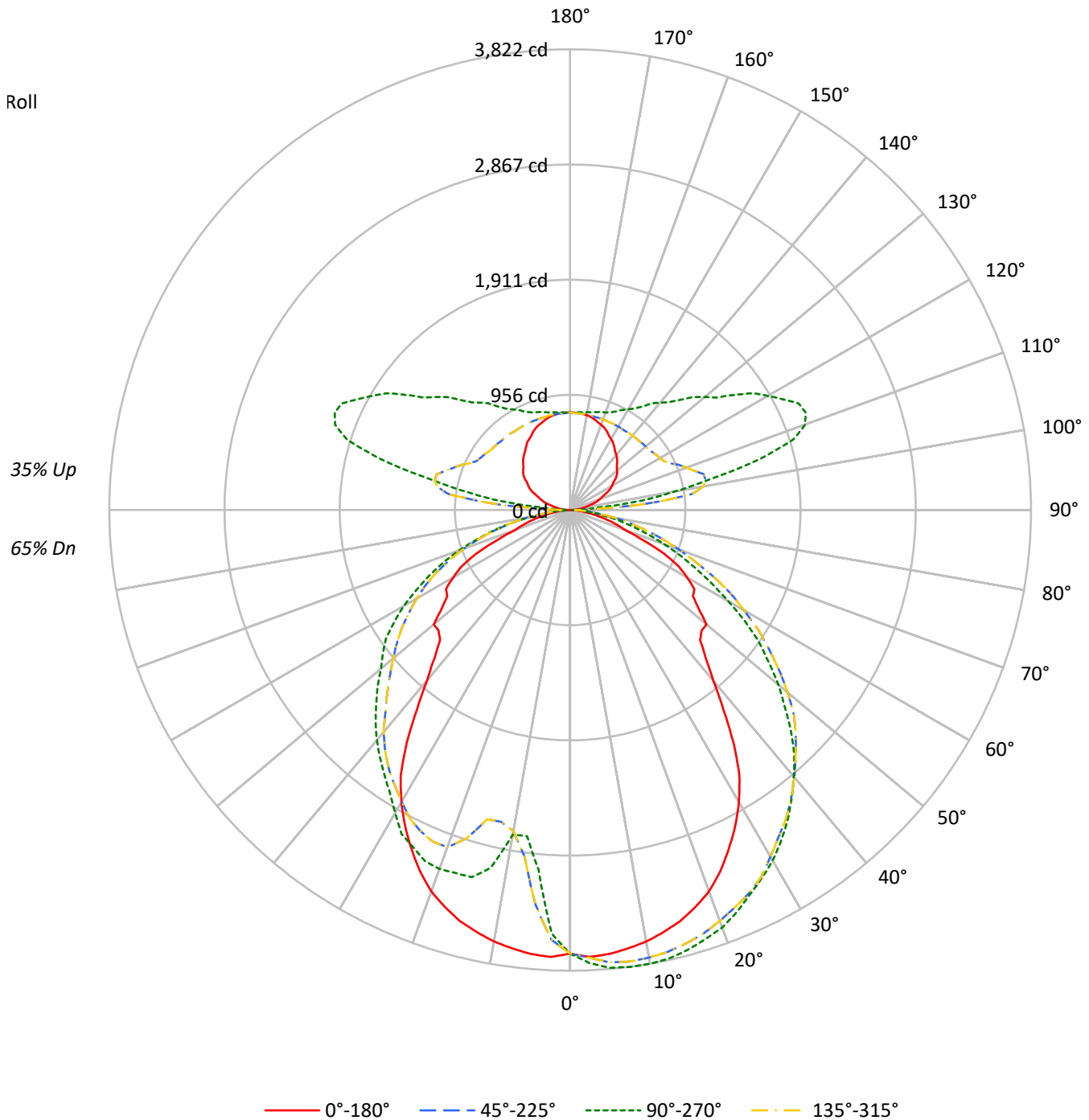
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14789.7 lumens
Efficiency: N/A
Efficacy: 109.1 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 (A_{in}): 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°	11382	11382	11382	11382
5°	11471	11490	11471	9034
10°	11398	11318	11398	8091
15°	11279	11072	11279	9246
20°	11047	10782	11047	9265
25°	10569	10358	10569	9068
30°	9949	10007	9949	8638
35°	8874	9561	8874	8164
40°	7398	9038	7398	7806
45°	6615	8425	6615	7394
50°	7033	7694	7033	6982
55°	6623	6906	6623	6742
60°	6836	5865	6836	6175
65°	6208	4848	6208	5420
70°	4309	3864	4309	4543
75°	3793	2856	3793	3420
80°	3079	1888	3079	2056
85°	1805	1000	1805	850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10132 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.2	2.2
10°-20°	943.1	6.4
20°-30°	1457.9	9.9
30°-40°	1740.4	11.8
40°-50°	1750.6	11.8
50°-60°	1523.2	10.3
60°-70°	1080.0	7.3
70°-80°	571.4	3.9
80°-90°	145.4	1.0
90°-100°	394.4	2.7
100°-110°	1037.0	7.0
110°-120°	1075.3	7.3
120°-130°	862.5	5.8
130°-140°	676.7	4.6
140°-150°	519.4	3.5
150°-160°	374.1	2.5
160°-170°	228.9	1.5
170°-180°	77.3	0.5
0°-30°	2733.1	18.5
0°-40°	4473.5	30.2
0°-60°	7747.3	52.4
0°-90°	9544.1	64.5
90°-120°	2506.7	16.9
90°-150°	4565.3	30.9
90°-180°	5246.0	35.5
0°-180°	14789.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3680	3680	3680	3680	3680	
5°	3697	3812	3697	2998	3697	351
15°	3530	3777	3530	3154	3530	993
25°	3109	3523	3109	3084	3109	1427
35°	2364	3144	2364	2684	2364	1462
45°	1525	2590	1525	2273	1525	1221
55°	1243	1911	1243	1866	1243	1142
65°	863	1152	863	1288	863	825
75°	327	547	327	654	327	344
85°	56	139	56	118	56	75
90°	5	21	5	21	5	7
95°	52	238	52	238	52	58
105°	187	1624	187	1624	187	198
115°	332	2091	332	2091	332	328
125°	462	1665	462	1665	462	410
135°	550	1292	550	1292	550	426
145°	638	1048	638	1048	638	400
155°	721	903	721	903	721	331
165°	778	841	778	841	778	220
175°	809	815	809	815	809	77
180°	809	809	809	809	809	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3711.1	3711.1	3732.0	3738.9	3738.9	3728.5	3718.0	3728.5	3759.8	3770.3	3766.8
5°	3697.2	3725.1	3763.3	3770.3	3777.2	3773.8	3766.8	3773.8	3808.6	3815.5	3819.0
7.5°	3669.3	3721.5	3770.3	3780.7	3791.2	3780.7	3777.2	3784.2	3819.0	3826.0	3826.0
10°	3634.5	3707.7	3763.3	3770.3	3780.7	3770.3	3770.3	3784.2	3819.0	3826.0	3829.5
12.5°	3585.8	3686.8	3738.9	3746.0	3759.8	3756.3	3752.9	3766.8	3801.6	3808.6	3808.6
15°	3530.1	3648.5	3697.2	3704.1	3728.5	3721.5	3721.5	3735.5	3773.8	3784.2	3780.7
17.5°	3453.5	3599.7	3655.4	3665.9	3683.2	3679.7	3683.2	3697.2	3732.0	3738.9	3742.4
20°	3366.4	3533.6	3599.7	3610.2	3627.6	3627.6	3627.6	3644.9	3679.7	3693.7	3693.7
22.5°	3248.0	3463.9	3533.6	3540.5	3561.4	3561.4	3568.4	3592.7	3624.0	3627.6	3627.6
25°	3108.8	3387.3	3446.5	3467.4	3488.3	3498.7	3509.2	3523.1	3533.6	3530.1	3533.6
27.5°	2962.6	3289.9	3366.4	3380.4	3408.2	3418.7	3432.6	3436.1	3439.5	3450.0	3443.0
30°	2799.0	3154.1	3268.9	3282.9	3328.1	3335.1	3321.2	3328.1	3345.5	3352.6	3359.5
32.5°	2614.4	2952.1	3168.0	3199.3	3241.1	3220.2	3216.8	3227.2	3255.1	3255.1	3262.0
35°	2363.9	2795.5	3074.1	3101.9	3133.2	3108.8	3122.7	3126.2	3143.6	3154.1	3150.6
37.5°	2088.8	2659.8	2976.6	2997.5	3021.8	2990.4	3011.3	3021.8	3035.8	3028.7	3028.7
40°	1845.1	2447.4	2861.7	2875.6	2896.5	2872.1	2892.9	2900.0	2906.9	2900.0	2896.5
42.5°	1664.1	2214.1	2739.8	2757.3	2743.3	2760.7	2767.6	2781.6	2771.1	2757.3	2757.3
45°	1524.8	2151.5	2607.5	2628.4	2607.5	2635.3	2645.8	2645.8	2614.4	2607.5	2604.1
47.5°	1479.6	2026.2	2475.2	2475.2	2464.8	2499.6	2517.0	2492.6	2461.3	2450.9	2450.9
50°	1476.1	1886.9	2294.2	2280.2	2329.0	2370.8	2353.4	2329.0	2304.7	2266.4	2266.4
52.5°	1340.3	1716.3	2060.9	2113.2	2189.8	2214.1	2186.3	2161.9	2120.1	2102.7	2088.8
55°	1242.8	1538.8	1848.6	1953.0	2033.1	2064.4	2012.2	1987.9	1925.1	1914.7	1907.8
57.5°	1222.0	1281.1	1653.7	1785.9	1883.4	1879.9	1848.6	1803.3	1751.1	1740.7	1737.2
60°	1121.0	926.0	1444.7	1601.4	1702.4	1692.0	1664.1	1622.3	1573.6	1566.6	1559.6
62.5°	1016.5	671.9	1208.0	1385.6	1528.3	1524.8	1500.5	1437.8	1403.0	1385.6	1371.6
65°	863.4	564.0	859.9	1152.3	1357.7	1364.7	1312.4	1267.2	1228.9	1208.0	1204.5
67.5°	657.9	459.5	581.3	960.9	1194.1	1187.1	1121.0	1100.1	1051.3	1040.9	1020.1
70°	487.4	306.4	403.8	779.8	1033.9	1016.5	964.3	940.0	894.7	870.3	856.4
72.5°	403.8	247.2	295.9	605.8	870.3	849.4	804.2	776.3	738.0	717.1	703.3
75°	327.3	261.1	226.3	449.1	706.7	692.8	651.0	623.2	591.8	564.0	567.5
77.5°	240.2	243.7	181.0	330.8	560.5	539.6	515.2	480.4	466.5	438.6	438.6
80°	181.0	191.5	135.8	226.3	403.8	403.8	382.9	358.6	334.2	320.3	320.3
82.5°	121.8	121.8	100.9	142.7	275.0	264.5	250.7	243.7	229.8	222.8	222.8
85°	55.7	69.6	62.6	87.0	149.7	156.7	156.7	149.7	146.2	139.2	142.7
87.5°	17.4	31.4	38.3	48.7	76.6	80.1	83.5	83.5	83.5	87.0	87.0
90°	5.4	9.7	14.1	15.2	23.9	35.5	41.3	36.7	27.5	20.6	20.6
92.5°	21.7	58.6	95.6	104.8	147.3	204.0	232.4	203.7	146.2	103.2	99.1
95°	52.2	119.7	187.3	204.2	362.6	573.8	679.4	606.2	460.0	350.3	337.8
97.5°	90.1	149.8	209.4	224.3	488.4	840.5	1016.6	970.4	877.9	808.7	785.0
100°	119.4	173.6	227.6	241.1	534.2	924.9	1120.4	1123.7	1130.5	1135.6	1107.4
102.5°	144.5	194.9	245.3	258.0	555.2	951.6	1149.7	1208.5	1326.3	1414.7	1390.5
105°	186.8	229.5	272.2	282.9	570.7	954.5	1146.4	1278.5	1542.5	1740.5	1727.5
107.5°	230.3	270.1	310.0	319.9	573.7	912.1	1081.3	1265.5	1633.8	1910.0	1913.2
110°	259.6	295.5	331.6	340.5	569.3	874.4	1027.0	1232.9	1644.6	1953.4	1967.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	288.3	322.6	356.9	365.5	569.5	841.5	977.5	1188.3	1609.7	1925.8	1946.5
115°	331.8	363.4	395.1	403.0	574.8	803.8	918.4	1121.3	1527.3	1831.8	1860.6
117.5°	374.7	403.4	432.1	439.3	585.4	780.2	877.6	1060.8	1427.2	1702.0	1733.9
120°	399.7	426.8	453.7	460.5	594.1	772.3	861.3	1028.8	1363.5	1614.6	1645.6
122.5°	424.1	451.4	478.7	485.5	606.6	768.1	848.8	999.5	1301.0	1527.1	1557.7
125°	461.6	486.5	511.3	517.6	623.5	764.6	835.3	963.3	1219.3	1411.4	1439.6
127.5°	492.0	517.1	542.3	548.5	640.3	762.6	823.8	933.8	1153.6	1318.6	1342.4
130°	508.4	535.4	562.4	569.1	652.6	763.9	819.5	917.4	1113.2	1259.9	1281.9
132.5°	525.1	552.2	579.2	586.0	662.6	764.6	815.7	903.3	1078.6	1209.9	1229.6
135°	550.2	574.8	599.4	605.5	673.4	763.9	809.2	882.6	1029.4	1139.4	1156.4
137.5°	575.6	600.1	624.5	630.5	689.7	768.7	808.1	870.1	994.2	1087.2	1101.1
140°	596.8	619.3	641.7	647.3	699.7	769.4	804.3	857.8	965.1	1045.4	1058.4
142.5°	613.1	633.9	654.7	659.9	708.0	772.2	804.3	851.3	945.5	1016.1	1027.3
145°	638.1	656.2	674.3	678.8	718.9	772.2	798.9	837.4	914.4	972.1	980.5
147.5°	663.1	680.7	698.3	702.7	734.8	777.6	798.9	829.2	889.8	935.2	942.2
150°	679.4	695.3	711.2	715.2	743.1	780.3	798.9	824.5	875.6	914.0	919.7
152.5°	696.2	708.3	720.4	723.4	748.6	782.1	798.9	820.8	864.4	897.2	901.5
155°	721.2	730.1	739.1	741.3	760.5	786.1	798.9	816.3	851.0	877.1	879.9
157.5°	739.7	748.4	757.0	759.2	772.5	790.1	798.9	812.4	839.4	859.7	861.7
160°	752.2	758.9	765.7	767.4	777.9	791.9	798.9	810.5	833.6	851.0	852.1
162.5°	764.6	769.7	774.8	776.1	783.7	793.8	798.9	808.7	828.2	842.8	843.9
165°	778.3	782.8	787.4	788.5	792.0	796.6	798.9	805.9	819.9	830.3	831.5
167.5°	790.7	792.8	795.0	795.6	798.5	802.3	804.3	808.8	818.0	824.9	825.4
170°	798.9	801.0	803.2	803.7	803.9	804.2	804.3	808.8	818.0	824.9	824.9
172.5°	803.2	803.6	804.2	804.3	804.3	804.3	804.3	807.9	815.2	820.6	820.2
175°	809.2	809.2	809.2	809.2	807.5	805.3	804.3	806.5	811.2	814.6	814.6
177.5°	809.2	809.2	809.2	809.2	807.9	806.3	805.4	807.2	810.8	813.6	813.0
180°	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3773.8	3763.3	3773.8	3766.8	3770.3	3759.8	3728.5	3718.0	3728.5	3738.9	3738.9
5°	3819.0	3812.1	3819.0	3819.0	3815.5	3808.6	3773.8	3766.8	3773.8	3777.2	3770.3
7.5°	3832.9	3822.5	3832.9	3826.0	3826.0	3819.0	3784.2	3777.2	3780.7	3791.2	3780.7
10°	3832.9	3822.5	3832.9	3829.5	3826.0	3819.0	3784.2	3770.3	3770.3	3780.7	3770.3
12.5°	3815.5	3808.6	3815.5	3808.6	3808.6	3801.6	3766.8	3752.9	3756.3	3759.8	3746.0
15°	3787.7	3777.2	3787.7	3780.7	3784.2	3773.8	3735.5	3721.5	3721.5	3728.5	3704.1
17.5°	3746.0	3732.0	3746.0	3742.4	3738.9	3732.0	3697.2	3683.2	3679.7	3683.2	3665.9
20°	3697.2	3686.8	3697.2	3693.7	3693.7	3679.7	3644.9	3627.6	3627.6	3627.6	3610.2
22.5°	3620.6	3610.2	3620.6	3627.6	3627.6	3624.0	3592.7	3568.4	3561.4	3561.4	3540.5
25°	3533.6	3523.1	3533.6	3533.6	3530.1	3533.6	3523.1	3509.2	3498.7	3488.3	3467.4
27.5°	3450.0	3443.0	3450.0	3443.0	3450.0	3439.5	3436.1	3432.6	3418.7	3408.2	3380.4
30°	3366.4	3359.5	3366.4	3359.5	3352.6	3345.5	3328.1	3321.2	3335.1	3328.1	3282.9
32.5°	3262.0	3255.1	3262.0	3262.0	3255.1	3255.1	3227.2	3216.8	3220.2	3241.1	3199.3
35°	3154.1	3143.6	3154.1	3150.6	3154.1	3143.6	3126.2	3122.7	3108.8	3133.2	3101.9
37.5°	3028.7	3018.3	3028.7	3028.7	3028.7	3035.8	3021.8	3011.3	2990.4	3021.8	2997.5
40°	2900.0	2886.0	2900.0	2896.5	2900.0	2906.9	2900.0	2892.9	2872.1	2896.5	2875.6
42.5°	2753.7	2750.2	2753.7	2757.3	2757.3	2771.1	2781.6	2767.6	2760.7	2743.3	2757.3
45°	2597.0	2590.1	2597.0	2604.1	2607.5	2614.4	2645.8	2645.8	2635.3	2607.5	2628.4
47.5°	2430.0	2412.6	2430.0	2450.9	2450.9	2461.3	2492.6	2517.0	2499.6	2464.8	2475.2
50°	2252.4	2255.9	2252.4	2266.4	2266.4	2304.7	2329.0	2353.4	2370.8	2329.0	2280.2
52.5°	2078.3	2074.9	2078.3	2088.8	2102.7	2120.1	2161.9	2186.3	2214.1	2189.8	2113.2
55°	1904.2	1911.3	1904.2	1907.8	1914.7	1925.1	1987.9	2012.2	2064.4	2033.1	1953.0
57.5°	1730.3	1719.8	1730.3	1737.2	1740.7	1751.1	1803.3	1848.6	1879.9	1883.4	1785.9
60°	1528.3	1514.4	1528.3	1559.6	1566.6	1573.6	1622.3	1664.1	1692.0	1702.4	1601.4
62.5°	1350.7	1326.4	1350.7	1371.6	1385.6	1403.0	1437.8	1500.5	1524.8	1528.3	1385.6
65°	1162.8	1152.3	1162.8	1204.5	1208.0	1228.9	1267.2	1312.4	1364.7	1357.7	1152.3
67.5°	992.2	992.2	992.2	1020.1	1040.9	1051.3	1100.1	1121.0	1187.1	1194.1	960.9
70°	835.5	832.0	835.5	856.4	870.3	894.7	940.0	964.3	1016.5	1033.9	779.8
72.5°	685.9	682.4	685.9	703.3	717.1	738.0	776.3	804.2	849.4	870.3	605.8
75°	553.5	546.6	553.5	567.5	564.0	591.8	623.2	651.0	692.8	706.7	449.1
77.5°	424.7	424.7	424.7	438.6	438.6	466.5	480.4	515.2	539.6	560.5	330.8
80°	316.8	313.3	316.8	320.3	320.3	334.2	358.6	382.9	403.8	403.8	226.3
82.5°	222.8	215.8	222.8	222.8	222.8	229.8	243.7	250.7	264.5	275.0	142.7
85°	139.2	139.2	139.2	142.7	139.2	146.2	149.7	156.7	156.7	149.7	87.0
87.5°	90.6	87.0	90.6	87.0	87.0	83.5	83.5	83.5	80.1	76.6	48.7
90°	20.6	20.6	20.6	20.6	20.6	27.5	36.7	41.3	35.5	23.9	15.2
92.5°	82.6	66.2	82.6	99.1	103.2	146.2	203.7	232.4	204.0	147.3	104.8
95°	288.1	238.4	288.1	337.8	350.3	460.0	606.2	679.4	573.8	362.6	204.2
97.5°	690.3	595.8	690.3	785.0	808.7	877.9	970.4	1016.6	840.5	488.4	224.3
100°	994.7	882.0	994.7	1107.4	1135.6	1130.5	1123.7	1120.4	924.9	534.2	241.1
102.5°	1294.0	1197.5	1294.0	1390.5	1414.7	1326.3	1208.5	1149.7	951.6	555.2	258.0
105°	1675.7	1623.8	1675.7	1727.5	1740.5	1542.5	1278.5	1146.4	954.5	570.7	282.9
107.5°	1925.7	1938.2	1925.7	1913.2	1910.0	1633.8	1265.5	1081.3	912.1	573.7	319.9
110°	2021.0	2075.1	2021.0	1967.0	1953.4	1644.6	1232.9	1027.0	874.4	569.3	340.5



TEST NUMBER: P934453

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2029.6	2112.6	2029.6	1946.5	1925.8	1609.7	1188.3	977.5	841.5	569.5	365.5
115°	1975.7	2090.9	1975.7	1860.6	1831.8	1527.3	1121.3	918.4	803.8	574.8	403.0
117.5°	1861.6	1989.3	1861.6	1733.9	1702.0	1427.2	1060.8	877.6	780.2	585.4	439.3
120°	1769.7	1893.7	1769.7	1645.6	1614.6	1363.5	1028.8	861.3	772.3	594.1	460.5
122.5°	1680.1	1802.4	1680.1	1557.7	1527.1	1301.0	999.5	848.8	768.1	606.6	485.5
125°	1552.3	1665.1	1552.3	1439.6	1411.4	1219.3	963.3	835.3	764.6	623.5	517.6
127.5°	1437.4	1532.5	1437.4	1342.4	1318.6	1153.6	933.8	823.8	762.6	640.3	548.5
130°	1369.8	1457.6	1369.8	1281.9	1259.9	1113.2	917.4	819.5	763.9	652.6	569.1
132.5°	1308.3	1387.0	1308.3	1229.6	1209.9	1078.6	903.3	815.7	764.6	662.6	586.0
135°	1224.2	1292.0	1224.2	1156.4	1139.4	1029.4	882.6	809.2	763.9	673.4	605.5
137.5°	1156.6	1212.1	1156.6	1101.1	1087.2	994.2	870.1	808.1	768.7	689.7	630.5
140°	1110.3	1162.2	1110.3	1058.4	1045.4	965.1	857.8	804.3	769.4	699.7	647.3
142.5°	1072.0	1116.6	1072.0	1027.3	1016.1	945.5	851.3	804.3	772.2	708.0	659.9
145°	1014.3	1048.2	1014.3	980.5	972.1	914.4	837.4	798.9	772.2	718.9	678.8
147.5°	970.2	998.2	970.2	942.2	935.2	889.8	829.2	798.9	777.6	734.8	702.7
150°	942.3	965.1	942.3	919.7	914.0	875.6	824.5	798.9	780.3	743.1	715.2
152.5°	918.6	935.7	918.6	901.5	897.2	864.4	820.8	798.9	782.1	748.6	723.4
155°	891.3	902.6	891.3	879.9	877.1	851.0	816.3	798.9	786.1	760.5	741.3
157.5°	869.6	877.6	869.6	861.7	859.7	839.4	812.4	798.9	790.1	772.5	759.2
160°	856.8	861.3	856.8	852.1	851.0	833.6	810.5	798.9	791.9	777.9	767.4
162.5°	848.3	852.7	848.3	843.9	842.8	828.2	808.7	798.9	793.8	783.7	776.1
165°	836.1	840.7	836.1	831.5	830.3	819.9	805.9	798.9	796.6	792.0	788.5
167.5°	827.4	829.3	827.4	825.4	824.9	818.0	808.8	804.3	802.3	798.5	795.6
170°	824.9	824.9	824.9	824.9	824.9	818.0	808.8	804.3	804.2	803.9	803.7
172.5°	818.5	816.8	818.5	820.2	820.6	815.2	807.9	804.3	804.3	804.3	804.3
175°	814.6	814.6	814.6	814.6	814.6	811.2	806.5	804.3	805.3	807.5	809.2
177.5°	811.1	809.2	811.1	813.0	813.6	810.8	807.2	805.4	806.3	807.9	809.2
180°	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2



TEST NUMBER: P934453

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3732.0	3711.1	3711.1	3676.3	3662.3	3651.9	3634.5	3582.3	3568.4	3554.4	3575.3
5°	3763.3	3725.1	3697.2	3634.5	3582.3	3561.4	3495.3	3370.0	3286.3	3223.7	3188.9
7.5°	3770.3	3721.5	3669.3	3571.9	3446.5	3390.9	3188.9	2959.2	2896.5	2840.8	2805.9
10°	3763.3	3707.7	3634.5	3488.3	3192.4	3094.9	2892.9	2743.3	2705.0	2694.5	2705.0
12.5°	3738.9	3686.8	3585.8	3342.1	2927.8	2861.7	2743.3	2656.2	2649.3	2666.7	2760.7
15°	3697.2	3648.5	3530.1	3147.1	2781.6	2732.8	2649.3	2618.0	2656.2	2778.1	3060.1
17.5°	3655.4	3599.7	3453.5	2955.7	2670.2	2635.3	2576.1	2638.9	2854.7	3018.3	3112.3
20°	3599.7	3533.6	3366.4	2816.4	2590.1	2558.8	2530.9	2812.9	2976.6	3035.8	3087.9
22.5°	3533.6	3463.9	3248.0	2719.0	2506.6	2482.2	2499.6	2910.4	2976.6	3018.3	3063.6
25°	3446.5	3387.3	3108.8	2642.4	2440.4	2412.6	2478.7	2900.0	2938.3	2948.7	3039.2
27.5°	3366.4	3289.9	2962.6	2572.7	2360.3	2349.9	2496.1	2854.7	2882.6	2892.9	2990.4
30°	3268.9	3154.1	2799.0	2499.6	2276.8	2273.3	2499.6	2799.0	2792.0	2819.9	2917.4
32.5°	3168.0	2952.1	2614.4	2409.1	2196.7	2193.2	2475.2	2715.4	2708.5	2746.8	2819.9
35°	3074.1	2795.5	2363.9	2304.7	2095.8	2099.2	2416.0	2618.0	2621.5	2656.2	2701.5
37.5°	2976.6	2659.8	2088.8	2189.8	1998.3	1998.3	2335.9	2527.5	2520.5	2530.9	2593.6
40°	2861.7	2447.4	1845.1	2040.0	1907.8	1897.3	2238.5	2430.0	2405.6	2402.2	2489.2
42.5°	2739.8	2214.1	1664.1	1841.6	1803.3	1789.4	2120.1	2311.6	2266.4	2276.8	2388.2
45°	2607.5	2151.5	1524.8	1556.2	1695.4	1684.9	1991.3	2175.8	2144.5	2172.4	2287.3
47.5°	2475.2	2026.2	1479.6	1291.5	1580.5	1577.1	1848.6	2043.5	2026.2	2054.0	2175.8
50°	2294.2	1886.9	1476.1	1107.1	1451.7	1465.6	1678.0	1914.7	1914.7	1939.1	2067.9
52.5°	2060.9	1716.3	1340.3	1002.6	1302.0	1343.8	1528.3	1803.3	1810.3	1834.7	1949.6
55°	1848.6	1538.8	1242.8	922.6	1124.5	1215.0	1382.1	1688.4	1702.4	1726.7	1831.2
57.5°	1653.7	1281.1	1222.0	828.6	960.9	1047.9	1253.2	1577.1	1584.0	1604.9	1705.8
60°	1444.7	926.0	1121.0	727.6	818.1	884.3	1134.9	1444.7	1469.1	1483.0	1570.1
62.5°	1208.0	671.9	1016.5	657.9	748.5	762.5	1037.4	1319.4	1350.7	1361.2	1413.4
65°	859.9	564.0	863.4	598.8	675.4	678.8	933.0	1190.6	1218.5	1235.9	1274.2
67.5°	581.3	459.5	657.9	543.1	619.6	623.2	832.0	1040.9	1079.2	1093.1	1117.6
70°	403.8	306.4	487.4	483.9	557.0	564.0	724.2	905.2	940.0	950.4	964.3
72.5°	295.9	247.2	403.8	435.2	490.9	497.8	612.7	752.0	786.8	797.2	804.2
75°	226.3	261.1	327.3	379.4	417.7	421.2	501.3	612.7	637.1	644.1	647.5
77.5°	181.0	243.7	240.2	306.4	341.1	334.2	393.4	473.5	494.3	494.3	494.3
80°	135.8	191.5	181.0	219.3	250.7	243.7	282.0	337.7	344.6	351.6	348.2
82.5°	100.9	121.8	121.8	139.2	167.1	160.1	188.0	219.3	219.3	219.3	226.3
85°	62.6	69.6	55.7	73.1	94.0	90.6	104.4	118.4	121.8	121.8	114.9
87.5°	38.3	31.4	17.4	27.8	41.8	41.8	48.7	52.3	48.7	48.7	48.7
90°	14.1	9.7	5.4	9.7	14.1	15.2	23.9	35.5	41.3	36.7	27.5
92.5°	95.6	58.6	21.7	58.6	95.6	104.8	147.3	204.0	232.4	203.7	146.2
95°	187.3	119.7	52.2	119.7	187.3	204.2	362.6	573.8	679.4	606.2	460.0
97.5°	209.4	149.8	90.1	149.8	209.4	224.3	488.4	840.5	1016.6	970.4	877.9
100°	227.6	173.6	119.4	173.6	227.6	241.1	534.2	924.9	1120.4	1123.7	1130.5
102.5°	245.3	194.9	144.5	194.9	245.3	258.0	555.2	951.6	1149.7	1208.5	1326.3
105°	272.2	229.5	186.8	229.5	272.2	282.9	570.7	954.5	1146.4	1278.5	1542.5
107.5°	310.0	270.1	230.3	270.1	310.0	319.9	573.7	912.1	1081.3	1265.5	1633.8
110°	331.6	295.5	259.6	295.5	331.6	340.5	569.3	874.4	1027.0	1232.9	1644.6



TEST NUMBER: P934453

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	356.9	322.6	288.3	322.6	356.9	365.5	569.5	841.5	977.5	1188.3	1609.7
115°	395.1	363.4	331.8	363.4	395.1	403.0	574.8	803.8	918.4	1121.3	1527.3
117.5°	432.1	403.4	374.7	403.4	432.1	439.3	585.4	780.2	877.6	1060.8	1427.2
120°	453.7	426.8	399.7	426.8	453.7	460.5	594.1	772.3	861.3	1028.8	1363.5
122.5°	478.7	451.4	424.1	451.4	478.7	485.5	606.6	768.1	848.8	999.5	1301.0
125°	511.3	486.5	461.6	486.5	511.3	517.6	623.5	764.6	835.3	963.3	1219.3
127.5°	542.3	517.1	492.0	517.1	542.3	548.5	640.3	762.6	823.8	933.8	1153.6
130°	562.4	535.4	508.4	535.4	562.4	569.1	652.6	763.9	819.5	917.4	1113.2
132.5°	579.2	552.2	525.1	552.2	579.2	586.0	662.6	764.6	815.7	903.3	1078.6
135°	599.4	574.8	550.2	574.8	599.4	605.5	673.4	763.9	809.2	882.6	1029.4
137.5°	624.5	600.1	575.6	600.1	624.5	630.5	689.7	768.7	808.1	870.1	994.2
140°	641.7	619.3	596.8	619.3	641.7	647.3	699.7	769.4	804.3	857.8	965.1
142.5°	654.7	633.9	613.1	633.9	654.7	659.9	708.0	772.2	804.3	851.3	945.5
145°	674.3	656.2	638.1	656.2	674.3	678.8	718.9	772.2	798.9	837.4	914.4
147.5°	698.3	680.7	663.1	680.7	698.3	702.7	734.8	777.6	798.9	829.2	889.8
150°	711.2	695.3	679.4	695.3	711.2	715.2	743.1	780.3	798.9	824.5	875.6
152.5°	720.4	708.3	696.2	708.3	720.4	723.4	748.6	782.1	798.9	820.8	864.4
155°	739.1	730.1	721.2	730.1	739.1	741.3	760.5	786.1	798.9	816.3	851.0
157.5°	757.0	748.4	739.7	748.4	757.0	759.2	772.5	790.1	798.9	812.4	839.4
160°	765.7	758.9	752.2	758.9	765.7	767.4	777.9	791.9	798.9	810.5	833.6
162.5°	774.8	769.7	764.6	769.7	774.8	776.1	783.7	793.8	798.9	808.7	828.2
165°	787.4	782.8	778.3	782.8	787.4	788.5	792.0	796.6	798.9	805.9	819.9
167.5°	795.0	792.8	790.7	792.8	795.0	795.6	798.5	802.3	804.3	808.8	818.0
170°	803.2	801.0	798.9	801.0	803.2	803.7	803.9	804.2	804.3	808.8	818.0
172.5°	804.2	803.6	803.2	803.6	804.2	804.3	804.3	804.3	804.3	807.9	815.2
175°	809.2	809.2	809.2	809.2	809.2	809.2	807.5	805.3	804.3	806.5	811.2
177.5°	809.2	809.2	809.2	809.2	809.2	809.2	807.9	806.3	805.4	807.2	810.8
180°	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2



TEST NUMBER: P934453

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3551.0	3540.5	3554.4	3516.1	3554.4	3540.5	3551.0	3575.3	3554.4	3568.4	3582.3
5°	3115.8	3098.4	3042.7	2997.5	3042.7	3098.4	3115.8	3188.9	3223.7	3286.3	3370.0
7.5°	2785.1	2771.1	2757.3	2729.3	2757.3	2771.1	2785.1	2805.9	2840.8	2896.5	2959.2
10°	2711.9	2715.4	2736.3	2732.8	2736.3	2715.4	2711.9	2705.0	2694.5	2705.0	2743.3
12.5°	2900.0	2931.2	3046.1	3039.2	3046.1	2931.2	2900.0	2760.7	2666.7	2649.3	2656.2
15°	3115.8	3126.2	3150.6	3154.1	3150.6	3126.2	3115.8	3060.1	2778.1	2656.2	2618.0
17.5°	3136.7	3140.2	3157.6	3157.6	3157.6	3140.2	3136.7	3112.3	3018.3	2854.7	2638.9
20°	3119.3	3126.2	3161.0	3168.0	3161.0	3126.2	3119.3	3087.9	3035.8	2976.6	2812.9
22.5°	3112.3	3126.2	3154.1	3150.6	3154.1	3126.2	3112.3	3063.6	3018.3	2976.6	2910.4
25°	3077.5	3077.5	3081.0	3084.4	3081.0	3077.5	3077.5	3039.2	2948.7	2938.3	2900.0
27.5°	3004.4	3011.3	3032.2	3028.7	3032.2	3011.3	3004.4	2990.4	2892.9	2882.6	2854.7
30°	2938.3	2931.2	2913.9	2900.0	2913.9	2931.2	2938.3	2917.4	2819.9	2792.0	2799.0
32.5°	2826.8	2809.4	2792.0	2781.6	2792.0	2809.4	2826.8	2819.9	2746.8	2708.5	2715.4
35°	2694.5	2698.1	2694.5	2684.1	2694.5	2698.1	2694.5	2701.5	2656.2	2621.5	2618.0
37.5°	2600.6	2607.5	2604.1	2590.1	2604.1	2607.5	2600.6	2593.6	2530.9	2520.5	2527.5
40°	2503.1	2506.6	2503.1	2492.6	2503.1	2506.6	2503.1	2489.2	2402.2	2405.6	2430.0
42.5°	2409.1	2405.6	2395.1	2388.2	2395.1	2405.6	2409.1	2388.2	2276.8	2266.4	2311.6
45°	2301.1	2304.7	2283.8	2273.3	2283.8	2304.7	2301.1	2287.3	2172.4	2144.5	2175.8
47.5°	2193.2	2193.2	2175.8	2165.4	2175.8	2193.2	2193.2	2175.8	2054.0	2026.2	2043.5
50°	2078.3	2074.9	2050.5	2047.1	2050.5	2074.9	2078.3	2067.9	1939.1	1914.7	1914.7
52.5°	1946.1	1946.1	1949.6	1956.5	1949.6	1946.1	1946.1	1949.6	1834.7	1810.3	1803.3
55°	1831.2	1834.7	1859.0	1866.0	1859.0	1834.7	1831.2	1831.2	1726.7	1702.4	1688.4
57.5°	1712.8	1712.8	1730.3	1730.3	1730.3	1712.8	1712.8	1705.8	1604.9	1584.0	1577.1
60°	1577.1	1584.0	1597.9	1594.5	1597.9	1584.0	1577.1	1570.1	1483.0	1469.1	1444.7
62.5°	1434.3	1441.3	1444.7	1437.8	1444.7	1441.3	1434.3	1413.4	1361.2	1350.7	1319.4
65°	1284.6	1291.5	1295.1	1288.1	1295.1	1291.5	1284.6	1274.2	1235.9	1218.5	1190.6
67.5°	1131.4	1127.9	1124.5	1138.4	1124.5	1127.9	1131.4	1117.6	1093.1	1079.2	1040.9
70°	974.7	974.7	971.3	978.3	971.3	974.7	974.7	964.3	950.4	940.0	905.2
72.5°	807.7	804.2	818.1	807.7	818.1	804.2	807.7	804.2	797.2	786.8	752.0
75°	644.1	651.0	644.1	654.5	644.1	651.0	644.1	647.5	644.1	637.1	612.7
77.5°	490.9	497.8	490.9	490.9	490.9	497.8	490.9	494.3	494.3	494.3	473.5
80°	348.2	344.6	344.6	341.1	344.6	344.6	348.2	348.2	351.6	344.6	337.7
82.5°	222.8	219.3	219.3	226.3	219.3	219.3	222.8	226.3	219.3	219.3	219.3
85°	121.8	125.3	118.4	118.4	118.4	125.3	121.8	114.9	121.8	121.8	118.4
87.5°	45.2	41.8	41.8	41.8	41.8	41.8	45.2	48.7	48.7	48.7	52.3
90°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	27.5	36.7	41.3	35.5
92.5°	103.2	99.1	82.6	66.2	82.6	99.1	103.2	146.2	203.7	232.4	204.0
95°	350.3	337.8	288.1	238.4	288.1	337.8	350.3	460.0	606.2	679.4	573.8
97.5°	808.7	785.0	690.3	595.8	690.3	785.0	808.7	877.9	970.4	1016.6	840.5
100°	1135.6	1107.4	994.7	882.0	994.7	1107.4	1135.6	1130.5	1123.7	1120.4	924.9
102.5°	1414.7	1390.5	1294.0	1197.5	1294.0	1390.5	1414.7	1326.3	1208.5	1149.7	951.6
105°	1740.5	1727.5	1675.7	1623.8	1675.7	1727.5	1740.5	1542.5	1278.5	1146.4	954.5
107.5°	1910.0	1913.2	1925.7	1938.2	1925.7	1913.2	1910.0	1633.8	1265.5	1081.3	912.1
110°	1953.4	1967.0	2021.0	2075.1	2021.0	1967.0	1953.4	1644.6	1232.9	1027.0	874.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1925.8	1946.5	2029.6	2112.6	2029.6	1946.5	1925.8	1609.7	1188.3	977.5	841.5
115°	1831.8	1860.6	1975.7	2090.9	1975.7	1860.6	1831.8	1527.3	1121.3	918.4	803.8
117.5°	1702.0	1733.9	1861.6	1989.3	1861.6	1733.9	1702.0	1427.2	1060.8	877.6	780.2
120°	1614.6	1645.6	1769.7	1893.7	1769.7	1645.6	1614.6	1363.5	1028.8	861.3	772.3
122.5°	1527.1	1557.7	1680.1	1802.4	1680.1	1557.7	1527.1	1301.0	999.5	848.8	768.1
125°	1411.4	1439.6	1552.3	1665.1	1552.3	1439.6	1411.4	1219.3	963.3	835.3	764.6
127.5°	1318.6	1342.4	1437.4	1532.5	1437.4	1342.4	1318.6	1153.6	933.8	823.8	762.6
130°	1259.9	1281.9	1369.8	1457.6	1369.8	1281.9	1259.9	1113.2	917.4	819.5	763.9
132.5°	1209.9	1229.6	1308.3	1387.0	1308.3	1229.6	1209.9	1078.6	903.3	815.7	764.6
135°	1139.4	1156.4	1224.2	1292.0	1224.2	1156.4	1139.4	1029.4	882.6	809.2	763.9
137.5°	1087.2	1101.1	1156.6	1212.1	1156.6	1101.1	1087.2	994.2	870.1	808.1	768.7
140°	1045.4	1058.4	1110.3	1162.2	1110.3	1058.4	1045.4	965.1	857.8	804.3	769.4
142.5°	1016.1	1027.3	1072.0	1116.6	1072.0	1027.3	1016.1	945.5	851.3	804.3	772.2
145°	972.1	980.5	1014.3	1048.2	1014.3	980.5	972.1	914.4	837.4	798.9	772.2
147.5°	935.2	942.2	970.2	998.2	970.2	942.2	935.2	889.8	829.2	798.9	777.6
150°	914.0	919.7	942.3	965.1	942.3	919.7	914.0	875.6	824.5	798.9	780.3
152.5°	897.2	901.5	918.6	935.7	918.6	901.5	897.2	864.4	820.8	798.9	782.1
155°	877.1	879.9	891.3	902.6	891.3	879.9	877.1	851.0	816.3	798.9	786.1
157.5°	859.7	861.7	869.6	877.6	869.6	861.7	859.7	839.4	812.4	798.9	790.1
160°	851.0	852.1	856.8	861.3	856.8	852.1	851.0	833.6	810.5	798.9	791.9
162.5°	842.8	843.9	848.3	852.7	848.3	843.9	842.8	828.2	808.7	798.9	793.8
165°	830.3	831.5	836.1	840.7	836.1	831.5	830.3	819.9	805.9	798.9	796.6
167.5°	824.9	825.4	827.4	829.3	827.4	825.4	824.9	818.0	808.8	804.3	802.3
170°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	818.0	808.8	804.3	804.2
172.5°	820.6	820.2	818.5	816.8	818.5	820.2	820.6	815.2	807.9	804.3	804.3
175°	814.6	814.6	814.6	814.6	814.6	814.6	814.6	811.2	806.5	804.3	805.3
177.5°	813.6	813.0	811.1	809.2	811.1	813.0	813.6	810.8	807.2	805.4	806.3
180°	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3634.5	3651.9	3662.3	3676.3	3711.1
5°	3495.3	3561.4	3582.3	3634.5	3697.2
7.5°	3188.9	3390.9	3446.5	3571.9	3669.3
10°	2892.9	3094.9	3192.4	3488.3	3634.5
12.5°	2743.3	2861.7	2927.8	3342.1	3585.8
15°	2649.3	2732.8	2781.6	3147.1	3530.1
17.5°	2576.1	2635.3	2670.2	2955.7	3453.5
20°	2530.9	2558.8	2590.1	2816.4	3366.4
22.5°	2499.6	2482.2	2506.6	2719.0	3248.0
25°	2478.7	2412.6	2440.4	2642.4	3108.8
27.5°	2496.1	2349.9	2360.3	2572.7	2962.6
30°	2499.6	2273.3	2276.8	2499.6	2799.0
32.5°	2475.2	2193.2	2196.7	2409.1	2614.4
35°	2416.0	2099.2	2095.8	2304.7	2363.9
37.5°	2335.9	1998.3	1998.3	2189.8	2088.8
40°	2238.5	1897.3	1907.8	2040.0	1845.1
42.5°	2120.1	1789.4	1803.3	1841.6	1664.1
45°	1991.3	1684.9	1695.4	1556.2	1524.8
47.5°	1848.6	1577.1	1580.5	1291.5	1479.6
50°	1678.0	1465.6	1451.7	1107.1	1476.1
52.5°	1528.3	1343.8	1302.0	1002.6	1340.3
55°	1382.1	1215.0	1124.5	922.6	1242.8
57.5°	1253.2	1047.9	960.9	828.6	1222.0
60°	1134.9	884.3	818.1	727.6	1121.0
62.5°	1037.4	762.5	748.5	657.9	1016.5
65°	933.0	678.8	675.4	598.8	863.4
67.5°	832.0	623.2	619.6	543.1	657.9
70°	724.2	564.0	557.0	483.9	487.4
72.5°	612.7	497.8	490.9	435.2	403.8
75°	501.3	421.2	417.7	379.4	327.3
77.5°	393.4	334.2	341.1	306.4	240.2
80°	282.0	243.7	250.7	219.3	181.0
82.5°	188.0	160.1	167.1	139.2	121.8
85°	104.4	90.6	94.0	73.1	55.7
87.5°	48.7	41.8	41.8	27.8	17.4
90°	23.9	15.2	14.1	9.7	5.4
92.5°	147.3	104.8	95.6	58.6	21.7
95°	362.6	204.2	187.3	119.7	52.2
97.5°	488.4	224.3	209.4	149.8	90.1
100°	534.2	241.1	227.6	173.6	119.4
102.5°	555.2	258.0	245.3	194.9	144.5
105°	570.7	282.9	272.2	229.5	186.8
107.5°	573.7	319.9	310.0	270.1	230.3
110°	569.3	340.5	331.6	295.5	259.6



TEST NUMBER: P934453

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	569.5	365.5	356.9	322.6	288.3
115°	574.8	403.0	395.1	363.4	331.8
117.5°	585.4	439.3	432.1	403.4	374.7
120°	594.1	460.5	453.7	426.8	399.7
122.5°	606.6	485.5	478.7	451.4	424.1
125°	623.5	517.6	511.3	486.5	461.6
127.5°	640.3	548.5	542.3	517.1	492.0
130°	652.6	569.1	562.4	535.4	508.4
132.5°	662.6	586.0	579.2	552.2	525.1
135°	673.4	605.5	599.4	574.8	550.2
137.5°	689.7	630.5	624.5	600.1	575.6
140°	699.7	647.3	641.7	619.3	596.8
142.5°	708.0	659.9	654.7	633.9	613.1
145°	718.9	678.8	674.3	656.2	638.1
147.5°	734.8	702.7	698.3	680.7	663.1
150°	743.1	715.2	711.2	695.3	679.4
152.5°	748.6	723.4	720.4	708.3	696.2
155°	760.5	741.3	739.1	730.1	721.2
157.5°	772.5	759.2	757.0	748.4	739.7
160°	777.9	767.4	765.7	758.9	752.2
162.5°	783.7	776.1	774.8	769.7	764.6
165°	792.0	788.5	787.4	782.8	778.3
167.5°	798.5	795.6	795.0	792.8	790.7
170°	803.9	803.7	803.2	801.0	798.9
172.5°	804.3	804.3	804.2	803.6	803.2
175°	807.5	809.2	809.2	809.2	809.2
177.5°	807.9	809.2	809.2	809.2	809.2
180°	809.2	809.2	809.2	809.2	809.2



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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	14.50	15.51	15.33	16.36	17.41	17.36	18.36	18.18	19.21	20.26
	3H	14.99	15.90	15.83	16.75	17.83	18.72	19.62	19.55	20.48	21.55
	4H	15.19	16.05	16.04	16.91	17.99	19.17	20.03	20.03	20.89	21.98
	6H	15.32	16.11	16.18	16.97	18.07	19.47	20.26	20.34	21.13	22.23
	8H	15.32	16.07	16.19	16.96	18.06	19.55	20.30	20.43	21.19	22.29
	12H	15.30	16.01	16.18	16.89	18.02	19.60	20.32	20.48	21.20	22.32
4H	2H	15.56	16.41	16.42	17.28	18.36	17.78	18.64	18.64	19.50	20.58
	3H	16.60	17.31	17.47	18.21	19.31	19.31	20.02	20.18	20.91	22.02
	4H	16.88	17.53	17.76	18.42	19.55	19.85	20.50	20.73	21.39	22.51
	6H	17.02	17.58	17.91	18.49	19.62	20.23	20.79	21.12	21.70	22.83
	8H	17.03	17.55	17.92	18.46	19.60	20.34	20.86	21.24	21.77	22.92
	12H	17.00	17.47	17.92	18.40	19.55	20.41	20.88	21.32	21.81	22.96
8H	4H	17.35	17.88	18.25	18.78	19.93	19.98	20.51	20.88	21.41	22.56
	6H	17.62	18.05	18.55	19.00	20.15	20.43	20.86	21.36	21.81	22.96
	8H	17.66	18.05	18.60	18.99	20.15	20.59	20.97	21.52	21.91	23.07
	12H	17.65	17.99	18.59	18.93	20.14	20.70	21.03	21.63	21.97	23.18
12H	4H	17.37	17.84	18.28	18.77	19.91	19.95	20.43	20.87	21.35	22.50
	6H	17.68	18.07	18.62	19.01	20.17	20.43	20.81	21.36	21.76	22.92
	8H	17.76	18.09	18.69	19.03	20.24	20.60	20.94	21.54	21.87	23.08