

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: P934526

Luminaire Tested: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934526
REPORT IS A COMBINATION OF REPORTS P933701 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

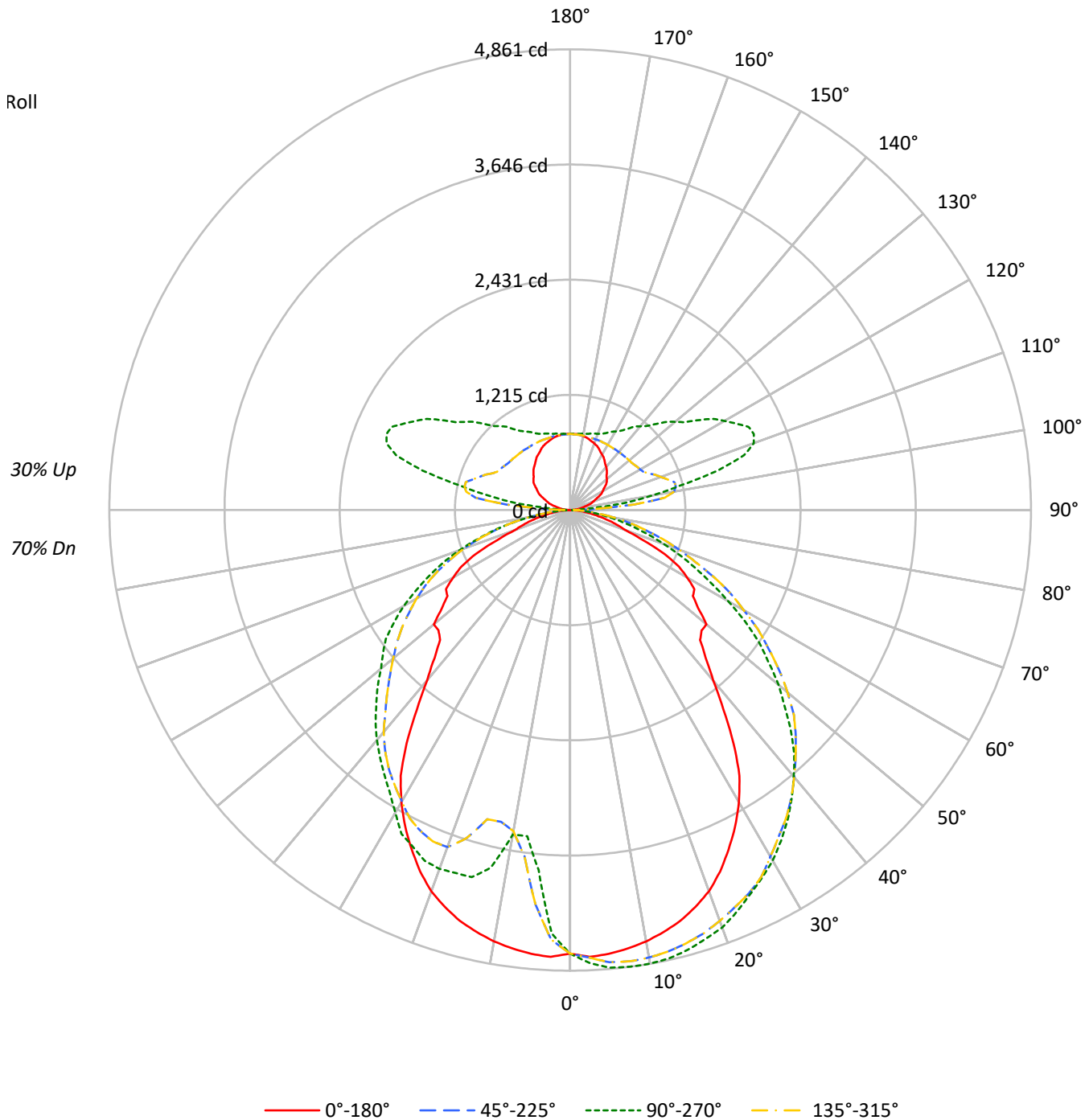
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17343.9 lumens
Efficiency: N/A
Efficacy: 103.2 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): 168
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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CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-3000K

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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14473	14473	14473	14473
5°	14587	14610	14587	11488
10°	14495	14392	14495	10289
15°	14343	14080	14343	11757
20°	14048	13711	14048	11781
25°	13440	13172	13440	11532
30°	12651	12725	12651	10984
35°	11284	12159	11284	10381
40°	9408	11493	9408	9926
45°	8412	10713	8412	9403
50°	8944	9783	8944	8877
55°	8422	8782	8422	8574
60°	8693	7458	8693	7853
65°	7894	6166	7894	6891
70°	5480	4913	5480	5777
75°	4823	3632	4823	4349
80°	3915	2401	3915	2614
85°	2294	1272	2294	1081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12884 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.4	2.4
10°-20°	1199.3	6.9
20°-30°	1853.9	10.7
30°-40°	2213.1	12.8
40°-50°	2226.1	12.8
50°-60°	1937.0	11.2
60°-70°	1373.3	7.9
70°-80°	726.6	4.2
80°-90°	184.0	1.1
90°-100°	391.6	2.3
100°-110°	1029.6	5.9
110°-120°	1067.6	6.2
120°-130°	856.3	4.9
130°-140°	671.9	3.9
140°-150°	515.7	3.0
150°-160°	371.4	2.1
160°-170°	227.2	1.3
170°-180°	76.8	0.4
0°-30°	3475.5	20.0
0°-40°	5688.7	32.8
0°-60°	9851.7	56.8
0°-90°	12135.7	70.0
90°-120°	2488.8	14.3
90°-150°	4532.7	26.1
90°-180°	5208.0	30.0
0°-180°	17343.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4679	4679	4679	4679	4679	
5°	4701	4848	4701	3812	4701	446
15°	4489	4803	4489	4011	4489	1263
25°	3953	4480	3953	3922	3953	1815
35°	3006	3998	3006	3413	3006	1860
45°	1939	3294	1939	2891	1939	1553
55°	1580	2430	1580	2373	1580	1452
65°	1098	1465	1098	1638	1098	1049
75°	416	695	416	832	416	438
85°	71	177	71	150	71	96
90°	5	20	5	20	5	7
95°	52	237	52	237	52	57
105°	186	1612	186	1612	186	197
115°	330	2076	330	2076	330	325
125°	458	1653	458	1653	458	407
135°	546	1283	546	1283	546	423
145°	634	1041	634	1041	634	397
155°	716	896	716	896	716	329
165°	773	835	773	835	773	218
175°	803	809	803	809	803	76
180°	803	803	803	803	803	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3
2.5°	4719.2	4719.2	4745.7	4754.6	4754.6	4741.2	4728.0	4741.2	4781.1	4794.4	4790.0
5°	4701.4	4736.9	4785.5	4794.4	4803.3	4798.8	4790.0	4798.8	4843.1	4852.0	4856.4
7.5°	4666.0	4732.4	4794.4	4807.7	4821.0	4807.7	4803.3	4812.1	4856.4	4865.3	4865.3
10°	4621.8	4714.7	4785.5	4794.4	4807.7	4794.4	4794.4	4812.1	4856.4	4865.3	4869.7
12.5°	4559.8	4688.1	4754.6	4763.4	4781.1	4776.7	4772.3	4790.0	4834.2	4843.1	4843.1
15°	4489.0	4639.5	4701.4	4710.3	4741.2	4732.4	4732.4	4750.1	4798.8	4812.1	4807.7
17.5°	4391.6	4577.5	4648.3	4661.6	4683.7	4679.3	4683.7	4701.4	4745.7	4754.6	4759.0
20°	4280.9	4493.3	4577.5	4590.7	4612.9	4612.9	4612.9	4635.0	4679.3	4697.0	4697.0
22.5°	4130.4	4404.8	4493.3	4502.2	4528.8	4528.8	4537.6	4568.6	4608.4	4612.9	4612.9
25°	3953.3	4307.4	4382.7	4409.3	4435.9	4449.1	4462.4	4480.1	4493.3	4489.0	4493.3
27.5°	3767.4	4183.5	4280.9	4298.6	4334.0	4347.3	4365.0	4369.4	4373.9	4387.1	4378.3
30°	3559.3	4010.8	4156.9	4174.6	4232.2	4241.1	4223.3	4232.2	4254.3	4263.2	4272.0
32.5°	3324.6	3754.1	4028.5	4068.4	4121.5	4095.0	4090.5	4103.8	4139.2	4139.2	4148.1
35°	3005.9	3554.8	3909.0	3944.4	3984.2	3953.3	3971.0	3975.4	3997.6	4010.8	4006.4
37.5°	2656.2	3382.2	3785.1	3811.7	3842.6	3802.8	3829.4	3842.6	3860.3	3851.4	3851.4
40°	2346.3	3112.1	3639.0	3656.7	3683.2	3652.3	3678.8	3687.7	3696.6	3687.7	3683.2
42.5°	2116.1	2815.5	3484.0	3506.2	3488.5	3510.5	3519.4	3537.1	3523.9	3506.2	3506.2
45°	1939.0	2735.8	3315.8	3342.3	3315.8	3351.2	3364.5	3364.5	3324.6	3315.8	3311.4
47.5°	1881.5	2576.5	3147.6	3147.6	3134.3	3178.6	3200.7	3169.7	3129.9	3116.6	3116.6
50°	1877.1	2399.4	2917.4	2899.7	2961.6	3014.8	2992.6	2961.6	2930.6	2882.0	2882.0
52.5°	1704.4	2182.5	2620.7	2687.2	2784.6	2815.5	2780.1	2749.2	2696.0	2673.9	2656.2
55°	1580.4	1956.8	2350.7	2483.6	2585.3	2625.2	2558.8	2527.8	2448.1	2434.8	2426.0
57.5°	1553.9	1629.1	2102.8	2271.0	2395.0	2390.6	2350.7	2293.2	2226.7	2213.5	2209.0
60°	1425.5	1177.6	1837.2	2036.4	2164.8	2151.5	2116.1	2063.0	2001.0	1992.2	1983.3
62.5°	1292.7	854.4	1536.2	1761.9	1943.4	1939.0	1908.0	1828.3	1784.1	1761.9	1744.2
65°	1097.9	717.2	1093.4	1465.4	1726.5	1735.3	1669.0	1611.4	1562.7	1536.2	1531.7
67.5°	836.7	584.3	739.3	1221.8	1518.5	1509.6	1425.5	1398.9	1336.9	1323.7	1297.1
70°	619.8	389.5	513.5	991.7	1314.8	1292.7	1226.3	1195.3	1137.7	1106.7	1089.0
72.5°	513.5	314.3	376.3	770.3	1106.7	1080.2	1022.6	987.2	938.5	912.0	894.3
75°	416.1	332.0	287.8	571.1	898.6	880.9	827.8	792.4	752.6	717.2	721.6
77.5°	305.5	309.9	230.2	420.6	712.7	686.2	655.2	610.9	593.2	557.8	557.8
80°	230.2	243.5	172.7	287.8	513.5	513.5	486.9	456.0	425.0	407.2	407.2
82.5°	155.0	155.0	128.4	181.5	349.8	336.4	318.7	309.9	292.2	283.3	283.3
85°	70.8	88.5	79.7	110.7	190.4	199.2	199.2	190.4	185.9	177.1	181.5
87.5°	22.1	39.9	48.7	62.0	97.4	101.9	106.2	106.2	106.2	110.7	110.7
90°	5.4	9.7	14.0	15.1	23.7	35.2	41.0	36.5	27.3	20.5	20.5
92.5°	21.5	58.2	94.9	104.0	146.2	202.6	230.7	202.2	145.2	102.5	98.4
95°	51.8	118.9	186.0	202.7	360.0	569.7	674.5	601.9	456.7	347.8	335.4
97.5°	89.5	148.7	207.9	222.7	484.9	834.5	1009.4	963.5	871.7	802.9	779.4
100°	118.6	172.3	225.9	239.4	530.4	918.3	1112.4	1115.7	1122.4	1127.5	1099.5
102.5°	143.4	193.5	243.6	256.1	551.2	944.8	1141.5	1199.9	1316.9	1404.6	1380.6
105°	185.5	227.9	270.2	280.9	566.6	947.7	1138.3	1269.3	1531.5	1728.1	1715.2
107.5°	228.6	268.2	307.7	317.6	569.6	905.6	1073.6	1256.4	1622.2	1896.4	1899.6
110°	257.8	293.4	329.2	338.1	565.3	868.2	1019.7	1224.1	1632.9	1939.5	1952.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	286.3	320.3	354.3	362.9	565.4	835.5	970.6	1179.8	1598.2	1912.0	1932.6
115°	329.5	360.8	392.2	400.1	570.7	798.1	911.8	1113.3	1516.4	1818.7	1847.3
117.5°	372.0	400.5	429.0	436.2	581.2	774.6	871.3	1053.2	1417.0	1689.8	1721.5
120°	396.9	423.7	450.5	457.2	589.8	766.8	855.2	1021.4	1353.7	1603.1	1633.8
122.5°	421.1	448.2	475.3	482.1	602.3	762.6	842.7	992.4	1291.7	1516.2	1546.6
125°	458.3	483.0	507.7	513.9	619.1	759.2	829.3	956.4	1210.6	1401.4	1429.4
127.5°	488.5	513.5	538.4	544.6	635.7	757.2	818.0	927.1	1145.4	1309.2	1332.8
130°	504.7	531.6	558.4	565.1	647.9	758.4	813.7	910.8	1105.2	1250.9	1272.7
132.5°	521.4	548.2	575.1	581.8	657.9	759.2	809.9	896.9	1070.9	1201.3	1220.8
135°	546.2	570.7	595.1	601.2	668.6	758.5	803.4	876.3	1022.0	1131.3	1148.1
137.5°	571.5	595.8	620.0	626.0	684.8	763.2	802.4	863.9	987.1	1079.5	1093.3
140°	592.5	614.9	637.1	642.7	694.7	763.9	798.5	851.7	958.2	1038.0	1050.9
142.5°	608.8	629.3	650.0	655.2	702.9	766.7	798.5	845.3	938.7	1008.9	1019.9
145°	633.5	651.5	669.5	674.0	713.8	766.7	793.2	831.4	907.9	965.2	973.5
147.5°	658.4	675.8	693.4	697.7	729.5	772.0	793.2	823.3	883.5	928.5	935.5
150°	674.5	690.3	706.2	710.1	737.8	774.7	793.2	818.6	869.3	907.4	913.1
152.5°	691.3	703.2	715.2	718.2	743.2	776.5	793.2	814.9	858.3	890.8	895.1
155°	716.0	724.9	733.8	736.0	755.1	780.5	793.2	810.5	844.9	870.8	873.6
157.5°	734.4	743.1	751.6	753.8	767.0	784.5	793.2	806.6	833.4	853.5	855.6
160°	746.8	753.5	760.2	761.9	772.4	786.2	793.2	804.7	827.6	844.9	846.0
162.5°	759.2	764.3	769.3	770.5	778.1	788.1	793.2	802.9	822.2	836.8	837.9
165°	772.7	777.2	781.8	782.9	786.3	790.9	793.2	800.2	814.0	824.4	825.6
167.5°	785.1	787.2	789.4	789.9	792.8	796.6	798.5	803.1	812.2	819.0	819.5
170°	793.2	795.3	797.5	798.0	798.2	798.4	798.5	803.1	812.2	819.0	819.0
172.5°	797.5	797.9	798.4	798.5	798.5	798.5	798.5	802.1	809.3	814.7	814.3
175°	803.4	803.4	803.4	803.4	801.7	799.6	798.5	800.8	805.4	808.8	808.8
177.5°	803.4	803.4	803.4	803.4	802.2	800.5	799.7	801.5	805.1	807.8	807.2
180°	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3
2.5°	4798.8	4785.5	4798.8	4790.0	4794.4	4781.1	4741.2	4728.0	4741.2	4754.6	4754.6
5°	4856.4	4847.5	4856.4	4856.4	4852.0	4843.1	4798.8	4790.0	4798.8	4803.3	4794.4
7.5°	4874.1	4860.8	4874.1	4865.3	4865.3	4856.4	4812.1	4803.3	4807.7	4821.0	4807.7
10°	4874.1	4860.8	4874.1	4869.7	4865.3	4856.4	4812.1	4794.4	4794.4	4807.7	4794.4
12.5°	4852.0	4843.1	4852.0	4843.1	4843.1	4834.2	4790.0	4772.3	4776.7	4781.1	4763.4
15°	4816.5	4803.3	4816.5	4807.7	4812.1	4798.8	4750.1	4732.4	4732.4	4741.2	4710.3
17.5°	4763.4	4745.7	4763.4	4759.0	4754.6	4745.7	4701.4	4683.7	4679.3	4683.7	4661.6
20°	4701.4	4688.1	4701.4	4697.0	4697.0	4679.3	4635.0	4612.9	4612.9	4612.9	4590.7
22.5°	4604.1	4590.7	4604.1	4612.9	4612.9	4608.4	4568.6	4537.6	4528.8	4528.8	4502.2
25°	4493.3	4480.1	4493.3	4493.3	4489.0	4493.3	4480.1	4462.4	4449.1	4435.9	4409.3
27.5°	4387.1	4378.3	4387.1	4378.3	4387.1	4373.9	4369.4	4365.0	4347.3	4334.0	4298.6
30°	4280.9	4272.0	4280.9	4272.0	4263.2	4254.3	4232.2	4223.3	4241.1	4232.2	4174.6
32.5°	4148.1	4139.2	4148.1	4148.1	4139.2	4139.2	4103.8	4090.5	4095.0	4121.5	4068.4
35°	4010.8	3997.6	4010.8	4006.4	4010.8	3997.6	3975.4	3971.0	3953.3	3984.2	3944.4
37.5°	3851.4	3838.2	3851.4	3851.4	3851.4	3860.3	3842.6	3829.4	3802.8	3842.6	3811.7
40°	3687.7	3670.0	3687.7	3683.2	3687.7	3696.6	3687.7	3678.8	3652.3	3683.2	3656.7
42.5°	3501.7	3497.3	3501.7	3506.2	3506.2	3523.9	3537.1	3519.4	3510.5	3488.5	3506.2
45°	3302.5	3293.7	3302.5	3311.4	3315.8	3324.6	3364.5	3364.5	3351.2	3315.8	3342.3
47.5°	3090.1	3067.9	3090.1	3116.6	3116.6	3129.9	3169.7	3200.7	3178.6	3134.3	3147.6
50°	2864.3	2868.6	2864.3	2882.0	2882.0	2930.6	2961.6	2992.6	3014.8	2961.6	2899.7
52.5°	2642.9	2638.5	2642.9	2656.2	2673.9	2696.0	2749.2	2780.1	2815.5	2784.6	2687.2
55°	2421.6	2430.4	2421.6	2426.0	2434.8	2448.1	2527.8	2558.8	2625.2	2585.3	2483.6
57.5°	2200.2	2186.9	2200.2	2209.0	2213.5	2226.7	2293.2	2350.7	2390.6	2395.0	2271.0
60°	1943.4	1925.7	1943.4	1983.3	1992.2	2001.0	2063.0	2116.1	2151.5	2164.8	2036.4
62.5°	1717.6	1686.7	1717.6	1744.2	1761.9	1784.1	1828.3	1908.0	1939.0	1943.4	1761.9
65°	1478.6	1465.4	1478.6	1531.7	1536.2	1562.7	1611.4	1669.0	1735.3	1726.5	1465.4
67.5°	1261.7	1261.7	1261.7	1297.1	1323.7	1336.9	1398.9	1425.5	1509.6	1518.5	1221.8
70°	1062.5	1058.0	1062.5	1089.0	1106.7	1137.7	1195.3	1226.3	1292.7	1314.8	991.7
72.5°	872.1	867.7	872.1	894.3	912.0	938.5	987.2	1022.6	1080.2	1106.7	770.3
75°	703.9	695.0	703.9	721.6	717.2	752.6	792.4	827.8	880.9	898.6	571.1
77.5°	540.1	540.1	540.1	557.8	557.8	593.2	610.9	655.2	686.2	712.7	420.6
80°	402.9	398.4	402.9	407.2	407.2	425.0	456.0	486.9	513.5	513.5	287.8
82.5°	283.3	274.4	283.3	283.3	283.3	292.2	309.9	318.7	336.4	349.8	181.5
85°	177.1	177.1	177.1	181.5	177.1	185.9	190.4	199.2	199.2	190.4	110.7
87.5°	115.1	110.7	115.1	110.7	110.7	106.2	106.2	106.2	101.9	97.4	62.0
90°	20.5	20.5	20.5	20.5	20.5	27.3	36.5	41.0	35.2	23.7	15.1
92.5°	82.1	65.8	82.1	98.4	102.5	145.2	202.2	230.7	202.6	146.2	104.0
95°	286.0	236.7	286.0	335.4	347.8	456.7	601.9	674.5	569.7	360.0	202.7
97.5°	685.4	591.5	685.4	779.4	802.9	871.7	963.5	1009.4	834.5	484.9	222.7
100°	987.6	875.7	987.6	1099.5	1127.5	1122.4	1115.7	1112.4	918.3	530.4	239.4
102.5°	1284.8	1188.9	1284.8	1380.6	1404.6	1316.9	1199.9	1141.5	944.8	551.2	256.1
105°	1663.8	1612.2	1663.8	1715.2	1728.1	1531.5	1269.3	1138.3	947.7	566.6	280.9
107.5°	1911.9	1924.4	1911.9	1899.6	1896.4	1622.2	1256.4	1073.6	905.6	569.6	317.6
110°	2006.6	2060.3	2006.6	1952.9	1939.5	1632.9	1224.1	1019.7	868.2	565.3	338.1



TEST NUMBER: P934526

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2015.1	2097.5	2015.1	1932.6	1912.0	1598.2	1179.8	970.6	835.5	565.4	362.9
115°	1961.6	2076.0	1961.6	1847.3	1818.7	1516.4	1113.3	911.8	798.1	570.7	400.1
117.5°	1848.3	1975.1	1848.3	1721.5	1689.8	1417.0	1053.2	871.3	774.6	581.2	436.2
120°	1757.1	1880.2	1757.1	1633.8	1603.1	1353.7	1021.4	855.2	766.8	589.8	457.2
122.5°	1668.1	1789.6	1668.1	1546.6	1516.2	1291.7	992.4	842.7	762.6	602.3	482.1
125°	1541.2	1653.2	1541.2	1429.4	1401.4	1210.6	956.4	829.3	759.2	619.1	513.9
127.5°	1427.2	1521.6	1427.2	1332.8	1309.2	1145.4	927.1	818.0	757.2	635.7	544.6
130°	1360.0	1447.2	1360.0	1272.7	1250.9	1105.2	910.8	813.7	758.4	647.9	565.1
132.5°	1299.0	1377.1	1299.0	1220.8	1201.3	1070.9	896.9	809.9	759.2	657.9	581.8
135°	1215.4	1282.8	1215.4	1148.1	1131.3	1022.0	876.3	803.4	758.5	668.6	601.2
137.5°	1148.4	1203.5	1148.4	1093.3	1079.5	987.1	863.9	802.4	763.2	684.8	626.0
140°	1102.3	1153.9	1102.3	1050.9	1038.0	958.2	851.7	798.5	763.9	694.7	642.7
142.5°	1064.3	1108.6	1064.3	1019.9	1008.9	938.7	845.3	798.5	766.7	702.9	655.2
145°	1007.1	1040.7	1007.1	973.5	965.2	907.9	831.4	793.2	766.7	713.8	674.0
147.5°	963.2	991.1	963.2	935.5	928.5	883.5	823.3	793.2	772.0	729.5	697.7
150°	935.6	958.2	935.6	913.1	907.4	869.3	818.6	793.2	774.7	737.8	710.1
152.5°	912.1	929.1	912.1	895.1	890.8	858.3	814.9	793.2	776.5	743.2	718.2
155°	884.9	896.2	884.9	873.6	870.8	844.9	810.5	793.2	780.5	755.1	736.0
157.5°	863.4	871.3	863.4	855.6	853.5	833.4	806.6	793.2	784.5	767.0	753.8
160°	850.7	855.2	850.7	846.0	844.9	827.6	804.7	793.2	786.2	772.4	761.9
162.5°	842.2	846.6	842.2	837.9	836.8	822.2	802.9	793.2	788.1	778.1	770.5
165°	830.2	834.7	830.2	825.6	824.4	814.0	800.2	793.2	790.9	786.3	782.9
167.5°	821.5	823.4	821.5	819.5	819.0	812.2	803.1	798.5	796.6	792.8	789.9
170°	819.0	819.0	819.0	819.0	819.0	812.2	803.1	798.5	798.4	798.2	798.0
172.5°	812.6	811.0	812.6	814.3	814.7	809.3	802.1	798.5	798.5	798.5	798.5
175°	808.8	808.8	808.8	808.8	808.8	805.4	800.8	798.5	799.6	801.7	803.4
177.5°	805.3	803.4	805.3	807.2	807.8	805.1	801.5	799.7	800.5	802.2	803.4
180°	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4



TEST NUMBER: P934526

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3
2.5°	4745.7	4719.2	4719.2	4674.9	4657.2	4643.9	4621.8	4555.3	4537.6	4519.9	4546.5
5°	4785.5	4736.9	4701.4	4621.8	4555.3	4528.8	4444.7	4285.3	4179.0	4099.3	4055.1
7.5°	4794.4	4732.4	4666.0	4542.1	4382.7	4311.9	4055.1	3762.9	3683.2	3612.4	3568.1
10°	4785.5	4714.7	4621.8	4435.9	4059.5	3935.6	3678.8	3488.5	3439.7	3426.5	3439.7
12.5°	4754.6	4688.1	4559.8	4249.9	3723.1	3639.0	3488.5	3377.7	3368.9	3391.1	3510.5
15°	4701.4	4639.5	4489.0	4001.9	3537.1	3475.1	3368.9	3329.1	3377.7	3532.7	3891.3
17.5°	4648.3	4577.5	4391.6	3758.5	3395.5	3351.2	3276.0	3355.7	3630.1	3838.2	3957.7
20°	4577.5	4493.3	4280.9	3581.4	3293.7	3253.8	3218.4	3577.0	3785.1	3860.3	3926.7
22.5°	4493.3	4404.8	4130.4	3457.4	3187.5	3156.4	3178.6	3700.9	3785.1	3838.2	3895.7
25°	4382.7	4307.4	3953.3	3360.0	3103.3	3067.9	3152.0	3687.7	3736.3	3749.7	3864.8
27.5°	4280.9	4183.5	3767.4	3271.5	3001.5	2988.2	3174.1	3630.1	3665.5	3678.8	3802.8
30°	4156.9	4010.8	3559.3	3178.6	2895.2	2890.8	3178.6	3559.3	3550.4	3585.8	3709.8
32.5°	4028.5	3754.1	3324.6	3063.5	2793.4	2789.0	3147.6	3453.0	3444.2	3492.8	3585.8
35°	3909.0	3554.8	3005.9	2930.6	2665.0	2669.5	3072.4	3329.1	3333.5	3377.7	3435.3
37.5°	3785.1	3382.2	2656.2	2784.6	2541.1	2541.1	2970.5	3214.0	3205.2	3218.4	3298.1
40°	3639.0	3112.1	2346.3	2594.2	2426.0	2412.7	2846.6	3090.1	3059.0	3054.6	3165.3
42.5°	3484.0	2815.5	2116.1	2341.8	2293.2	2275.5	2696.0	2939.5	2882.0	2895.2	3036.9
45°	3315.8	2735.8	1939.0	1978.8	2155.9	2142.7	2532.2	2766.9	2727.0	2762.4	2908.5
47.5°	3147.6	2576.5	1881.5	1642.4	2009.9	2005.4	2350.7	2598.7	2576.5	2611.9	2766.9
50°	2917.4	2399.4	1877.1	1407.8	1846.0	1863.7	2133.8	2434.8	2434.8	2465.9	2629.6
52.5°	2620.7	2182.5	1704.4	1275.0	1655.6	1708.8	1943.4	2293.2	2302.0	2333.0	2479.1
55°	2350.7	1956.8	1580.4	1173.1	1429.9	1545.0	1757.5	2147.0	2164.8	2195.8	2328.6
57.5°	2102.8	1629.1	1553.9	1053.6	1221.8	1332.6	1593.7	2005.4	2014.3	2040.8	2169.2
60°	1837.2	1177.6	1425.5	925.2	1040.3	1124.5	1443.2	1837.2	1868.2	1885.9	1996.5
62.5°	1536.2	854.4	1292.7	836.7	951.8	969.5	1319.2	1677.8	1717.6	1730.9	1797.3
65°	1093.4	717.2	1097.9	761.5	858.9	863.2	1186.4	1514.0	1549.4	1571.6	1620.2
67.5°	739.3	584.3	836.7	690.6	788.0	792.4	1058.0	1323.7	1372.3	1390.1	1421.1
70°	513.5	389.5	619.8	615.3	708.4	717.2	920.8	1151.0	1195.3	1208.6	1226.3
72.5°	376.3	314.3	513.5	553.4	624.2	633.1	779.2	956.2	1000.5	1013.7	1022.6
75°	287.8	332.0	416.1	482.5	531.2	535.7	637.5	779.2	810.1	819.0	823.4
77.5°	230.2	309.9	305.5	389.5	433.8	425.0	500.3	602.1	628.6	628.6	628.6
80°	172.7	243.5	230.2	278.9	318.7	309.9	358.6	429.4	438.3	447.1	442.7
82.5°	128.4	155.0	155.0	177.1	212.5	203.6	239.0	278.9	278.9	278.9	287.8
85°	79.7	88.5	70.8	93.0	119.6	115.1	132.8	150.5	155.0	155.0	146.1
87.5°	48.7	39.9	22.1	35.4	53.1	53.1	62.0	66.4	62.0	62.0	62.0
90°	14.0	9.7	5.4	9.7	14.0	15.1	23.7	35.2	41.0	36.5	27.3
92.5°	94.9	58.2	21.5	58.2	94.9	104.0	146.2	202.6	230.7	202.2	145.2
95°	186.0	118.9	51.8	118.9	186.0	202.7	360.0	569.7	674.5	601.9	456.7
97.5°	207.9	148.7	89.5	148.7	207.9	222.7	484.9	834.5	1009.4	963.5	871.7
100°	225.9	172.3	118.6	172.3	225.9	239.4	530.4	918.3	1112.4	1115.7	1122.4
102.5°	243.6	193.5	143.4	193.5	243.6	256.1	551.2	944.8	1141.5	1199.9	1316.9
105°	270.2	227.9	185.5	227.9	270.2	280.9	566.6	947.7	1138.3	1269.3	1531.5
107.5°	307.7	268.2	228.6	268.2	307.7	317.6	569.6	905.6	1073.6	1256.4	1622.2
110°	329.2	293.4	257.8	293.4	329.2	338.1	565.3	868.2	1019.7	1224.1	1632.9



TEST NUMBER: P934526

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	354.3	320.3	286.3	320.3	354.3	362.9	565.4	835.5	970.6	1179.8	1598.2
115°	392.2	360.8	329.5	360.8	392.2	400.1	570.7	798.1	911.8	1113.3	1516.4
117.5°	429.0	400.5	372.0	400.5	429.0	436.2	581.2	774.6	871.3	1053.2	1417.0
120°	450.5	423.7	396.9	423.7	450.5	457.2	589.8	766.8	855.2	1021.4	1353.7
122.5°	475.3	448.2	421.1	448.2	475.3	482.1	602.3	762.6	842.7	992.4	1291.7
125°	507.7	483.0	458.3	483.0	507.7	513.9	619.1	759.2	829.3	956.4	1210.6
127.5°	538.4	513.5	488.5	513.5	538.4	544.6	635.7	757.2	818.0	927.1	1145.4
130°	558.4	531.6	504.7	531.6	558.4	565.1	647.9	758.4	813.7	910.8	1105.2
132.5°	575.1	548.2	521.4	548.2	575.1	581.8	657.9	759.2	809.9	896.9	1070.9
135°	595.1	570.7	546.2	570.7	595.1	601.2	668.6	758.5	803.4	876.3	1022.0
137.5°	620.0	595.8	571.5	595.8	620.0	626.0	684.8	763.2	802.4	863.9	987.1
140°	637.1	614.9	592.5	614.9	637.1	642.7	694.7	763.9	798.5	851.7	958.2
142.5°	650.0	629.3	608.8	629.3	650.0	655.2	702.9	766.7	798.5	845.3	938.7
145°	669.5	651.5	633.5	651.5	669.5	674.0	713.8	766.7	793.2	831.4	907.9
147.5°	693.4	675.8	658.4	675.8	693.4	697.7	729.5	772.0	793.2	823.3	883.5
150°	706.2	690.3	674.5	690.3	706.2	710.1	737.8	774.7	793.2	818.6	869.3
152.5°	715.2	703.2	691.3	703.2	715.2	718.2	743.2	776.5	793.2	814.9	858.3
155°	733.8	724.9	716.0	724.9	733.8	736.0	755.1	780.5	793.2	810.5	844.9
157.5°	751.6	743.1	734.4	743.1	751.6	753.8	767.0	784.5	793.2	806.6	833.4
160°	760.2	753.5	746.8	753.5	760.2	761.9	772.4	786.2	793.2	804.7	827.6
162.5°	769.3	764.3	759.2	764.3	769.3	770.5	778.1	788.1	793.2	802.9	822.2
165°	781.8	777.2	772.7	777.2	781.8	782.9	786.3	790.9	793.2	800.2	814.0
167.5°	789.4	787.2	785.1	787.2	789.4	789.9	792.8	796.6	798.5	803.1	812.2
170°	797.5	795.3	793.2	795.3	797.5	798.0	798.2	798.4	798.5	803.1	812.2
172.5°	798.4	797.9	797.5	797.9	798.4	798.5	798.5	798.5	798.5	802.1	809.3
175°	803.4	803.4	803.4	803.4	803.4	803.4	801.7	799.6	798.5	800.8	805.4
177.5°	803.4	803.4	803.4	803.4	803.4	803.4	802.2	800.5	799.7	801.5	805.1
180°	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4



TEST NUMBER: P934526

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3	4679.3
2.5°	4515.5	4502.2	4519.9	4471.3	4519.9	4502.2	4515.5	4546.5	4519.9	4537.6	4555.3
5°	3962.2	3940.0	3869.1	3811.7	3869.1	3940.0	3962.2	4055.1	4099.3	4179.0	4285.3
7.5°	3541.6	3523.9	3506.2	3470.8	3506.2	3523.9	3541.6	3568.1	3612.4	3683.2	3762.9
10°	3448.6	3453.0	3479.6	3475.1	3479.6	3453.0	3448.6	3439.7	3426.5	3439.7	3488.5
12.5°	3687.7	3727.5	3873.6	3864.8	3873.6	3727.5	3687.7	3510.5	3391.1	3368.9	3377.7
15°	3962.2	3975.4	4006.4	4010.8	4006.4	3975.4	3962.2	3891.3	3532.7	3377.7	3329.1
17.5°	3988.7	3993.1	4015.3	4015.3	4015.3	3993.1	3988.7	3957.7	3838.2	3630.1	3355.7
20°	3966.5	3975.4	4019.7	4028.5	4019.7	3975.4	3966.5	3926.7	3860.3	3785.1	3577.0
22.5°	3957.7	3975.4	4010.8	4006.4	4010.8	3975.4	3957.7	3895.7	3838.2	3785.1	3700.9
25°	3913.4	3913.4	3917.9	3922.3	3917.9	3913.4	3913.4	3864.8	3749.7	3736.3	3687.7
27.5°	3820.5	3829.4	3855.9	3851.4	3855.9	3829.4	3820.5	3802.8	3678.8	3665.5	3630.1
30°	3736.3	3727.5	3705.4	3687.7	3705.4	3727.5	3736.3	3709.8	3585.8	3550.4	3559.3
32.5°	3594.7	3572.5	3550.4	3537.1	3550.4	3572.5	3594.7	3585.8	3492.8	3444.2	3453.0
35°	3426.5	3430.9	3426.5	3413.2	3426.5	3430.9	3426.5	3435.3	3377.7	3333.5	3329.1
37.5°	3306.9	3315.8	3311.4	3293.7	3311.4	3315.8	3306.9	3298.1	3218.4	3205.2	3214.0
40°	3183.0	3187.5	3183.0	3169.7	3183.0	3187.5	3183.0	3165.3	3054.6	3059.0	3090.1
42.5°	3063.5	3059.0	3045.8	3036.9	3045.8	3059.0	3063.5	3036.9	2895.2	2882.0	2939.5
45°	2926.2	2930.6	2904.0	2890.8	2904.0	2930.6	2926.2	2908.5	2762.4	2727.0	2766.9
47.5°	2789.0	2789.0	2766.9	2753.5	2766.9	2789.0	2789.0	2766.9	2611.9	2576.5	2598.7
50°	2642.9	2638.5	2607.5	2603.0	2607.5	2638.5	2642.9	2629.6	2465.9	2434.8	2434.8
52.5°	2474.7	2474.7	2479.1	2487.9	2479.1	2474.7	2474.7	2479.1	2333.0	2302.0	2293.2
55°	2328.6	2333.0	2364.0	2372.9	2364.0	2333.0	2328.6	2328.6	2195.8	2164.8	2147.0
57.5°	2178.1	2178.1	2200.2	2200.2	2200.2	2178.1	2178.1	2169.2	2040.8	2014.3	2005.4
60°	2005.4	2014.3	2032.0	2027.6	2032.0	2014.3	2005.4	1996.5	1885.9	1868.2	1837.2
62.5°	1823.9	1832.8	1837.2	1828.3	1837.2	1832.8	1823.9	1797.3	1730.9	1717.6	1677.8
65°	1633.6	1642.4	1646.8	1637.9	1646.8	1642.4	1633.6	1620.2	1571.6	1549.4	1514.0
67.5°	1438.8	1434.3	1429.9	1447.6	1429.9	1434.3	1438.8	1421.1	1390.1	1372.3	1323.7
70°	1239.5	1239.5	1235.1	1244.0	1235.1	1239.5	1239.5	1226.3	1208.6	1195.3	1151.0
72.5°	1027.1	1022.6	1040.3	1027.1	1040.3	1022.6	1027.1	1022.6	1013.7	1000.5	956.2
75°	819.0	827.8	819.0	832.3	819.0	827.8	819.0	823.4	819.0	810.1	779.2
77.5°	624.2	633.1	624.2	624.2	624.2	633.1	624.2	628.6	628.6	628.6	602.1
80°	442.7	438.3	438.3	433.8	438.3	438.3	442.7	442.7	447.1	438.3	429.4
82.5°	283.3	278.9	278.9	287.8	278.9	278.9	283.3	287.8	278.9	278.9	278.9
85°	155.0	159.4	150.5	150.5	150.5	159.4	155.0	146.1	155.0	155.0	150.5
87.5°	57.6	53.1	53.1	53.1	53.1	53.1	57.6	62.0	62.0	62.0	66.4
90°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	27.3	36.5	41.0	35.2
92.5°	102.5	98.4	82.1	65.8	82.1	98.4	102.5	145.2	202.2	230.7	202.6
95°	347.8	335.4	286.0	236.7	286.0	335.4	347.8	456.7	601.9	674.5	569.7
97.5°	802.9	779.4	685.4	591.5	685.4	779.4	802.9	871.7	963.5	1009.4	834.5
100°	1127.5	1099.5	987.6	875.7	987.6	1099.5	1127.5	1122.4	1115.7	1112.4	918.3
102.5°	1404.6	1380.6	1284.8	1188.9	1284.8	1380.6	1404.6	1316.9	1199.9	1141.5	944.8
105°	1728.1	1715.2	1663.8	1612.2	1663.8	1715.2	1728.1	1531.5	1269.3	1138.3	947.7
107.5°	1896.4	1899.6	1911.9	1924.4	1911.9	1899.6	1896.4	1622.2	1256.4	1073.6	905.6
110°	1939.5	1952.9	2006.6	2060.3	2006.6	1952.9	1939.5	1632.9	1224.1	1019.7	868.2



TEST NUMBER: P934526

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1912.0	1932.6	2015.1	2097.5	2015.1	1932.6	1912.0	1598.2	1179.8	970.6	835.5
115°	1818.7	1847.3	1961.6	2076.0	1961.6	1847.3	1818.7	1516.4	1113.3	911.8	798.1
117.5°	1689.8	1721.5	1848.3	1975.1	1848.3	1721.5	1689.8	1417.0	1053.2	871.3	774.6
120°	1603.1	1633.8	1757.1	1880.2	1757.1	1633.8	1603.1	1353.7	1021.4	855.2	766.8
122.5°	1516.2	1546.6	1668.1	1789.6	1668.1	1546.6	1516.2	1291.7	992.4	842.7	762.6
125°	1401.4	1429.4	1541.2	1653.2	1541.2	1429.4	1401.4	1210.6	956.4	829.3	759.2
127.5°	1309.2	1332.8	1427.2	1521.6	1427.2	1332.8	1309.2	1145.4	927.1	818.0	757.2
130°	1250.9	1272.7	1360.0	1447.2	1360.0	1272.7	1250.9	1105.2	910.8	813.7	758.4
132.5°	1201.3	1220.8	1299.0	1377.1	1299.0	1220.8	1201.3	1070.9	896.9	809.9	759.2
135°	1131.3	1148.1	1215.4	1282.8	1215.4	1148.1	1131.3	1022.0	876.3	803.4	758.5
137.5°	1079.5	1093.3	1148.4	1203.5	1148.4	1093.3	1079.5	987.1	863.9	802.4	763.2
140°	1038.0	1050.9	1102.3	1153.9	1102.3	1050.9	1038.0	958.2	851.7	798.5	763.9
142.5°	1008.9	1019.9	1064.3	1108.6	1064.3	1019.9	1008.9	938.7	845.3	798.5	766.7
145°	965.2	973.5	1007.1	1040.7	1007.1	973.5	965.2	907.9	831.4	793.2	766.7
147.5°	928.5	935.5	963.2	991.1	963.2	935.5	928.5	883.5	823.3	793.2	772.0
150°	907.4	913.1	935.6	958.2	935.6	913.1	907.4	869.3	818.6	793.2	774.7
152.5°	890.8	895.1	912.1	929.1	912.1	895.1	890.8	858.3	814.9	793.2	776.5
155°	870.8	873.6	884.9	896.2	884.9	873.6	870.8	844.9	810.5	793.2	780.5
157.5°	853.5	855.6	863.4	871.3	863.4	855.6	853.5	833.4	806.6	793.2	784.5
160°	844.9	846.0	850.7	855.2	850.7	846.0	844.9	827.6	804.7	793.2	786.2
162.5°	836.8	837.9	842.2	846.6	842.2	837.9	836.8	822.2	802.9	793.2	788.1
165°	824.4	825.6	830.2	834.7	830.2	825.6	824.4	814.0	800.2	793.2	790.9
167.5°	819.0	819.5	821.5	823.4	821.5	819.5	819.0	812.2	803.1	798.5	796.6
170°	819.0	819.0	819.0	819.0	819.0	819.0	819.0	812.2	803.1	798.5	798.4
172.5°	814.7	814.3	812.6	811.0	812.6	814.3	814.7	809.3	802.1	798.5	798.5
175°	808.8	808.8	808.8	808.8	808.8	808.8	808.8	805.4	800.8	798.5	799.6
177.5°	807.8	807.2	805.3	803.4	805.3	807.2	807.8	805.1	801.5	799.7	800.5
180°	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4



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CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4679.3	4679.3	4679.3	4679.3	4679.3
2.5°	4621.8	4643.9	4657.2	4674.9	4719.2
5°	4444.7	4528.8	4555.3	4621.8	4701.4
7.5°	4055.1	4311.9	4382.7	4542.1	4666.0
10°	3678.8	3935.6	4059.5	4435.9	4621.8
12.5°	3488.5	3639.0	3723.1	4249.9	4559.8
15°	3368.9	3475.1	3537.1	4001.9	4489.0
17.5°	3276.0	3351.2	3395.5	3758.5	4391.6
20°	3218.4	3253.8	3293.7	3581.4	4280.9
22.5°	3178.6	3156.4	3187.5	3457.4	4130.4
25°	3152.0	3067.9	3103.3	3360.0	3953.3
27.5°	3174.1	2988.2	3001.5	3271.5	3767.4
30°	3178.6	2890.8	2895.2	3178.6	3559.3
32.5°	3147.6	2789.0	2793.4	3063.5	3324.6
35°	3072.4	2669.5	2665.0	2930.6	3005.9
37.5°	2970.5	2541.1	2541.1	2784.6	2656.2
40°	2846.6	2412.7	2426.0	2594.2	2346.3
42.5°	2696.0	2275.5	2293.2	2341.8	2116.1
45°	2532.2	2142.7	2155.9	1978.8	1939.0
47.5°	2350.7	2005.4	2009.9	1642.4	1881.5
50°	2133.8	1863.7	1846.0	1407.8	1877.1
52.5°	1943.4	1708.8	1655.6	1275.0	1704.4
55°	1757.5	1545.0	1429.9	1173.1	1580.4
57.5°	1593.7	1332.6	1221.8	1053.6	1553.9
60°	1443.2	1124.5	1040.3	925.2	1425.5
62.5°	1319.2	969.5	951.8	836.7	1292.7
65°	1186.4	863.2	858.9	761.5	1097.9
67.5°	1058.0	792.4	788.0	690.6	836.7
70°	920.8	717.2	708.4	615.3	619.8
72.5°	779.2	633.1	624.2	553.4	513.5
75°	637.5	535.7	531.2	482.5	416.1
77.5°	500.3	425.0	433.8	389.5	305.5
80°	358.6	309.9	318.7	278.9	230.2
82.5°	239.0	203.6	212.5	177.1	155.0
85°	132.8	115.1	119.6	93.0	70.8
87.5°	62.0	53.1	53.1	35.4	22.1
90°	23.7	15.1	14.0	9.7	5.4
92.5°	146.2	104.0	94.9	58.2	21.5
95°	360.0	202.7	186.0	118.9	51.8
97.5°	484.9	222.7	207.9	148.7	89.5
100°	530.4	239.4	225.9	172.3	118.6
102.5°	551.2	256.1	243.6	193.5	143.4
105°	566.6	280.9	270.2	227.9	185.5
107.5°	569.6	317.6	307.7	268.2	228.6
110°	565.3	338.1	329.2	293.4	257.8



TEST NUMBER: P934526

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	565.4	362.9	354.3	320.3	286.3
115°	570.7	400.1	392.2	360.8	329.5
117.5°	581.2	436.2	429.0	400.5	372.0
120°	589.8	457.2	450.5	423.7	396.9
122.5°	602.3	482.1	475.3	448.2	421.1
125°	619.1	513.9	507.7	483.0	458.3
127.5°	635.7	544.6	538.4	513.5	488.5
130°	647.9	565.1	558.4	531.6	504.7
132.5°	657.9	581.8	575.1	548.2	521.4
135°	668.6	601.2	595.1	570.7	546.2
137.5°	684.8	626.0	620.0	595.8	571.5
140°	694.7	642.7	637.1	614.9	592.5
142.5°	702.9	655.2	650.0	629.3	608.8
145°	713.8	674.0	669.5	651.5	633.5
147.5°	729.5	697.7	693.4	675.8	658.4
150°	737.8	710.1	706.2	690.3	674.5
152.5°	743.2	718.2	715.2	703.2	691.3
155°	755.1	736.0	733.8	724.9	716.0
157.5°	767.0	753.8	751.6	743.1	734.4
160°	772.4	761.9	760.2	753.5	746.8
162.5°	778.1	770.5	769.3	764.3	759.2
165°	786.3	782.9	781.8	777.2	772.7
167.5°	792.8	789.9	789.4	787.2	785.1
170°	798.2	798.0	797.5	795.3	793.2
172.5°	798.5	798.5	798.4	797.9	797.5
175°	801.7	803.4	803.4	803.4	803.4
177.5°	802.2	803.4	803.4	803.4	803.4
180°	803.4	803.4	803.4	803.4	803.4



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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	15.76	16.84	16.53	17.63	18.58	18.61	19.69	19.38	20.48	21.43
	3H	16.26	17.22	17.03	18.02	19.00	19.98	20.95	20.76	21.74	22.73
	4H	16.46	17.37	17.25	18.17	19.17	20.44	21.35	21.24	22.16	23.15
	6H	16.59	17.43	17.40	18.24	19.25	20.74	21.58	21.55	22.40	23.41
	8H	16.59	17.39	17.41	18.23	19.24	20.83	21.63	21.64	22.46	23.47
	12H	16.57	17.34	17.40	18.16	19.20	20.88	21.64	21.70	22.46	23.50
4H	2H	16.83	17.74	17.63	18.54	19.54	19.05	19.96	19.85	20.76	21.76
	3H	17.87	18.63	18.69	19.47	20.48	20.58	21.34	21.39	22.18	23.19
	4H	18.16	18.85	18.98	19.69	20.73	21.12	21.81	21.95	22.65	23.69
	6H	18.30	18.89	19.14	19.75	20.80	21.51	22.10	22.35	22.96	24.01
	8H	18.31	18.86	19.15	19.72	20.78	21.62	22.18	22.47	23.04	24.09
	12H	18.28	18.79	19.15	19.66	20.73	21.69	22.19	22.56	23.07	24.13
8H	4H	18.63	19.19	19.48	20.05	21.11	21.26	21.82	22.11	22.68	23.74
	6H	18.90	19.37	19.78	20.26	21.32	21.71	22.18	22.59	23.08	24.13
	8H	18.95	19.36	19.83	20.25	21.33	21.87	22.28	22.76	23.18	24.25
	12H	18.94	19.30	19.83	20.19	21.32	21.98	22.34	22.87	23.23	24.36
12H	4H	18.65	19.15	19.52	20.03	21.09	21.24	21.74	22.10	22.62	23.68
	6H	18.97	19.38	19.85	20.27	21.35	21.71	22.12	22.60	23.02	24.09
	8H	19.04	19.40	19.93	20.29	21.42	21.89	22.25	22.78	23.13	24.26