

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: P935038

Luminaire Tested: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

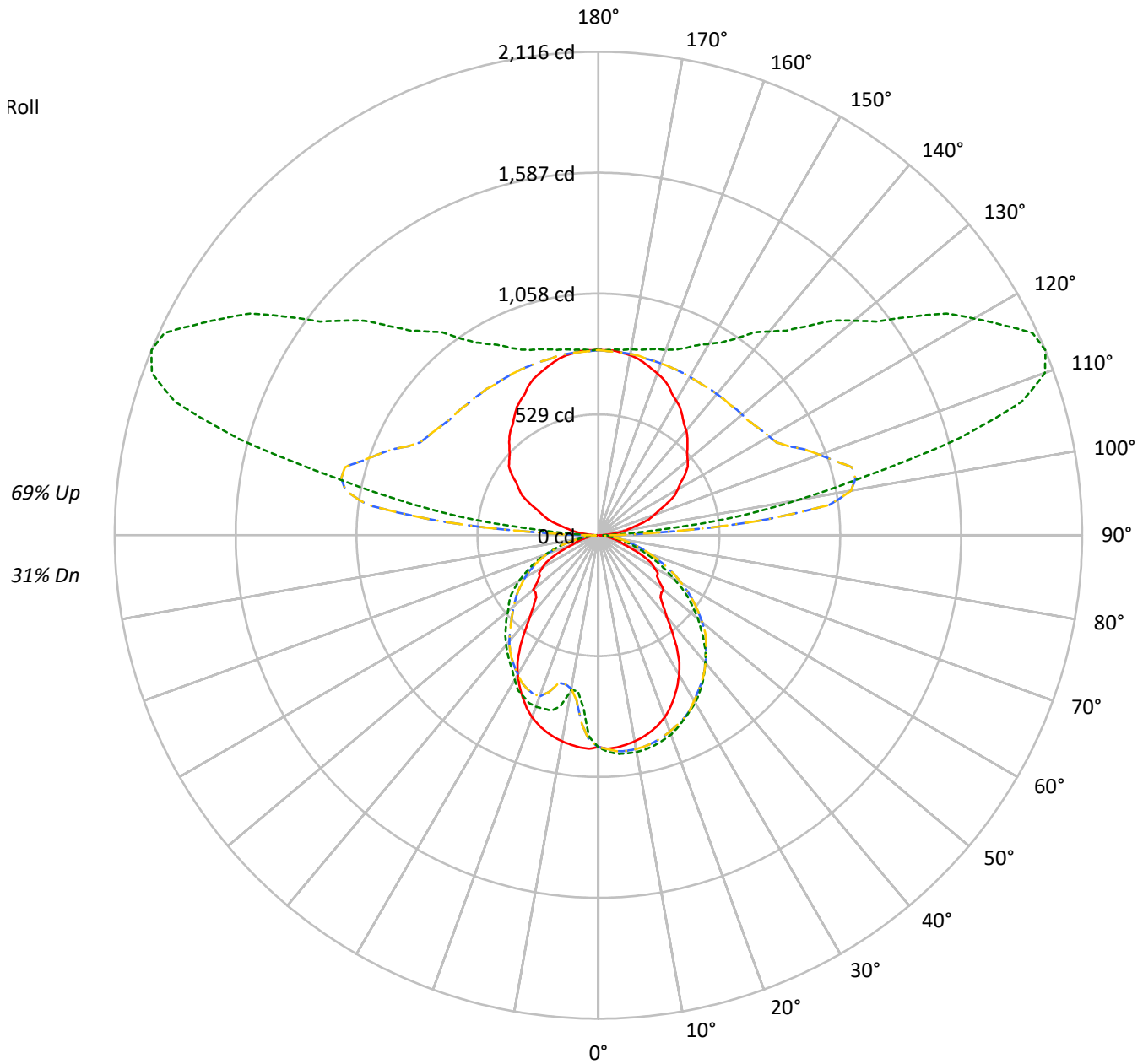
Test Method: LM-79-2019  
Report Number: P935038  
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7662.6 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 61.8  
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: P935038  
CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5736	5736	5736	5736
5°	5777	5790	5777	4553
10°	5736	5704	5736	4078
15°	5672	5580	5672	4660
20°	5551	5434	5551	4669
25°	5305	5220	5305	4570
30°	4990	5043	4990	4353
35°	4447	4819	4447	4114
40°	3703	4555	3703	3934
45°	3306	4245	3306	3726
50°	3509	3878	3509	3518
55°	3298	3480	3298	3398
60°	3397	2956	3397	3112
65°	3075	2444	3075	2731
70°	2124	1947	2124	2289
75°	1856	1439	1856	1723
80°	1484	951	1484	1037
85°	835	504	835	428

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5071 cd/sqm



TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.7	1.1
10°-20°	237.6	3.1
20°-30°	367.4	4.8
30°-40°	438.6	5.7
40°-50°	441.1	5.8
50°-60°	383.8	5.0
60°-70°	272.1	3.6
70°-80°	144.0	1.9
80°-90°	39.0	0.5
90°-100°	395.2	5.2
100°-110°	1038.9	13.6
110°-120°	1077.2	14.1
120°-130°	864.1	11.3
130°-140°	678.0	8.8
140°-150°	520.4	6.8
150°-160°	374.8	4.9
160°-170°	229.3	3.0
170°-180°	77.5	1.0
0°-30°	688.7	9.0
0°-40°	1127.3	14.7
0°-60°	1952.2	25.5
0°-90°	2407.3	31.4
90°-120°	2511.3	32.8
90°-150°	4573.8	59.7
90°-180°	5255.0	68.6
0°-180°	7662.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	927	927	927	927	927	
5°	932	960	932	755	932	88
15°	890	952	890	795	890	250
25°	783	888	783	777	783	360
35°	596	792	596	676	596	369
45°	384	653	384	573	384	308
55°	313	482	313	470	313	288
65°	218	290	218	325	218	208
75°	82	138	82	165	82	87
85°	14	35	14	30	14	19
90°	5	21	5	21	5	5
95°	52	239	52	239	52	58
105°	187	1627	187	1627	187	198
115°	332	2095	332	2095	332	328
125°	462	1668	462	1668	462	411
135°	551	1294	551	1294	551	426
145°	639	1050	639	1050	639	401
155°	723	904	723	904	723	332
165°	780	842	780	842	780	220
175°	811	816	811	816	811	77
180°	811	811	811	811	811	



TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	935.2	935.2	940.4	942.1	942.1	939.5	936.9	939.5	947.5	950.1	949.2
5°	931.6	938.7	948.3	950.1	951.8	951.0	949.2	951.0	959.7	961.5	962.4
7.5°	924.6	937.8	950.1	952.7	955.3	952.7	951.8	953.6	962.4	964.1	964.1
10°	915.8	934.3	948.3	950.1	952.7	950.1	950.1	953.6	962.4	964.1	965.0
12.5°	903.6	929.0	942.1	943.9	947.5	946.6	945.6	949.2	957.9	959.7	959.7
15°	889.6	919.4	931.6	933.4	939.5	937.8	937.8	941.3	951.0	953.6	952.7
17.5°	870.2	907.1	921.1	923.7	928.1	927.2	928.1	931.6	940.4	942.1	943.0
20°	848.3	890.4	907.1	909.7	914.1	914.1	914.1	918.5	927.2	930.7	930.7
22.5°	818.5	872.8	890.4	892.2	897.4	897.4	899.2	905.3	913.2	914.1	914.1
25°	783.3	853.5	868.5	873.8	879.0	881.6	884.2	887.8	890.4	889.6	890.4
27.5°	746.5	829.0	848.3	851.8	858.9	861.5	865.0	865.8	866.7	869.3	867.6
30°	705.3	794.8	823.7	827.2	838.6	840.4	836.9	838.6	843.0	844.8	846.6
32.5°	658.8	743.9	798.3	806.2	816.7	811.4	810.6	813.2	820.2	820.2	822.0
35°	595.7	704.4	774.6	781.6	789.5	783.3	786.9	787.8	792.2	794.8	793.9
37.5°	526.4	670.2	750.0	755.3	761.5	753.5	758.8	761.5	764.9	763.2	763.2
40°	465.0	616.7	721.1	724.6	729.9	723.7	729.0	730.8	732.5	730.8	729.9
42.5°	419.4	557.9	690.4	694.7	691.3	695.6	697.5	700.9	698.3	694.7	694.7
45°	384.2	542.1	657.1	662.3	657.1	664.1	666.7	666.7	658.8	657.1	656.2
47.5°	372.8	510.6	623.8	623.8	621.1	629.9	634.2	628.1	620.2	617.6	617.6
50°	371.9	475.4	578.1	574.6	586.9	597.4	593.0	586.9	580.8	571.1	571.1
52.5°	337.7	432.4	519.3	532.5	551.8	557.9	551.0	544.8	534.2	529.8	526.4
55°	313.1	387.7	465.8	492.2	512.3	520.2	507.1	500.9	485.1	482.5	480.8
57.5°	307.9	322.8	416.7	450.1	474.6	473.7	465.8	454.4	441.2	438.6	437.8
60°	282.5	233.4	364.1	403.6	429.0	426.3	419.4	408.8	396.5	394.8	393.0
62.5°	256.1	169.3	304.4	349.2	385.1	384.2	378.1	362.3	353.5	349.2	345.7
65°	217.6	142.1	216.7	290.4	342.1	343.8	330.8	319.3	309.7	304.4	303.6
67.5°	165.8	115.8	146.5	242.2	300.9	299.1	282.5	277.2	264.9	262.3	257.1
70°	122.8	77.2	101.8	196.5	260.6	256.1	243.0	236.8	225.4	219.3	215.8
72.5°	101.8	62.3	74.6	152.6	219.3	214.1	202.7	195.6	186.0	180.7	177.2
75°	82.5	65.8	57.0	113.2	178.1	174.6	164.0	157.1	149.1	142.1	143.0
77.5°	60.5	61.4	45.6	83.4	141.3	136.0	129.8	121.0	117.6	110.6	110.6
80°	45.6	48.2	34.2	57.0	101.8	101.8	96.5	90.3	84.2	80.8	80.8
82.5°	30.7	30.7	25.5	35.9	69.3	66.7	63.1	61.4	57.9	56.2	56.2
85°	14.0	17.5	15.8	21.9	37.8	39.5	39.5	37.8	36.9	35.1	35.9
87.5°	4.4	7.9	9.7	12.3	19.3	20.1	21.0	21.0	21.0	21.9	21.9
90°	5.4	9.8	14.1	15.3	24.0	35.6	41.3	36.7	27.6	20.7	20.7
92.5°	21.8	58.8	95.7	105.0	147.6	204.4	232.8	204.1	146.5	103.3	99.2
95°	52.2	119.9	187.7	204.6	363.3	574.8	680.6	607.4	460.8	350.9	338.4
97.5°	90.3	150.1	209.8	224.7	489.3	842.1	1018.5	972.2	879.6	810.1	786.4
100°	119.7	173.9	228.0	241.6	535.2	926.6	1122.4	1125.8	1132.6	1137.7	1109.4
102.5°	144.8	195.3	245.8	258.5	556.3	953.3	1151.8	1210.8	1328.8	1417.3	1393.2
105°	187.1	230.0	272.8	283.5	571.9	956.4	1148.6	1280.8	1545.3	1743.7	1730.7
107.5°	230.7	270.6	310.5	320.5	574.8	913.7	1083.2	1267.8	1636.7	1913.5	1916.6
110°	260.0	296.1	332.2	341.1	570.4	876.0	1028.8	1235.1	1647.6	1957.0	1970.5



TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	288.9	323.3	357.6	366.2	570.6	843.1	979.3	1190.4	1612.7	1929.3	1950.0
115°	332.4	364.1	395.7	403.7	575.8	805.2	920.0	1123.4	1530.2	1835.2	1864.1
117.5°	375.4	404.2	433.0	440.1	586.4	781.6	879.2	1062.7	1429.8	1705.1	1737.1
120°	400.4	427.6	454.6	461.4	595.3	773.7	862.9	1030.6	1366.0	1617.5	1648.6
122.5°	424.9	452.2	479.6	486.4	607.7	769.5	850.4	1001.4	1303.4	1529.9	1560.6
125°	462.4	487.4	512.3	518.5	624.6	766.1	836.8	965.1	1221.6	1414.1	1442.3
127.5°	493.0	518.1	543.3	549.6	641.5	764.1	825.4	935.5	1155.8	1321.0	1344.9
130°	509.3	536.4	563.4	570.2	653.9	765.3	821.0	919.0	1115.2	1262.3	1284.2
132.5°	526.1	553.2	580.3	587.1	663.8	766.1	817.2	905.0	1080.5	1212.2	1231.9
135°	551.1	575.8	600.5	606.7	674.7	765.3	810.6	884.2	1031.2	1141.5	1158.5
137.5°	576.7	601.1	625.6	631.7	691.0	770.1	809.6	871.8	996.0	1089.3	1103.1
140°	598.0	620.5	643.0	648.5	700.9	770.8	805.8	859.5	966.8	1047.3	1060.3
142.5°	614.3	635.1	655.9	661.1	709.3	773.6	805.8	852.9	947.2	1017.9	1029.1
145°	639.3	657.4	675.6	680.1	720.2	773.7	800.4	838.9	916.1	973.9	982.3
147.5°	664.3	681.9	699.5	704.0	736.1	778.9	800.4	830.7	891.4	936.9	943.9
150°	680.6	696.6	712.5	716.6	744.5	781.7	800.4	826.0	877.2	915.6	921.3
152.5°	697.5	709.7	721.7	724.7	749.9	783.5	800.4	822.2	866.0	898.8	903.1
155°	722.6	731.5	740.4	742.6	761.9	787.5	800.4	817.8	852.6	878.7	881.5
157.5°	741.1	749.8	758.4	760.6	773.8	791.5	800.4	813.9	841.0	861.3	863.3
160°	753.5	760.3	767.1	768.8	779.3	793.4	800.4	812.0	835.1	852.6	853.7
162.5°	766.1	771.1	776.2	777.5	785.1	795.3	800.4	810.1	829.7	844.4	845.4
165°	779.7	784.2	788.8	790.0	793.5	798.1	800.4	807.3	821.4	831.9	833.1
167.5°	792.2	794.3	796.5	797.0	799.9	803.8	805.8	810.4	819.5	826.4	826.9
170°	800.4	802.5	804.7	805.2	805.4	805.7	805.8	810.4	819.5	826.4	826.4
172.5°	804.7	805.1	805.7	805.8	805.8	805.8	805.8	809.4	816.7	822.1	821.6
175°	810.6	810.6	810.6	810.6	809.0	806.8	805.8	808.0	812.6	816.1	816.1
177.5°	810.6	810.6	810.6	810.6	809.4	807.8	806.9	808.7	812.3	815.0	814.5
180°	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6



TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	951.0	948.3	951.0	949.2	950.1	947.5	939.5	936.9	939.5	942.1	942.1
5°	962.4	960.5	962.4	962.4	961.5	959.7	951.0	949.2	951.0	951.8	950.1
7.5°	965.9	963.2	965.9	964.1	964.1	962.4	953.6	951.8	952.7	955.3	952.7
10°	965.9	963.2	965.9	965.0	964.1	962.4	953.6	950.1	950.1	952.7	950.1
12.5°	961.5	959.7	961.5	959.7	959.7	957.9	949.2	945.6	946.6	947.5	943.9
15°	954.4	951.8	954.4	952.7	953.6	951.0	941.3	937.8	937.8	939.5	933.4
17.5°	943.9	940.4	943.9	943.0	942.1	940.4	931.6	928.1	927.2	928.1	923.7
20°	931.6	929.0	931.6	930.7	930.7	927.2	918.5	914.1	914.1	914.1	909.7
22.5°	912.3	909.7	912.3	914.1	914.1	913.2	905.3	899.2	897.4	897.4	892.2
25°	890.4	887.8	890.4	890.4	889.6	890.4	887.8	884.2	881.6	879.0	873.8
27.5°	869.3	867.6	869.3	867.6	869.3	866.7	865.8	865.0	861.5	858.9	851.8
30°	848.3	846.6	848.3	846.6	844.8	843.0	838.6	836.9	840.4	838.6	827.2
32.5°	822.0	820.2	822.0	822.0	820.2	820.2	813.2	810.6	811.4	816.7	806.2
35°	794.8	792.2	794.8	793.9	794.8	792.2	787.8	786.9	783.3	789.5	781.6
37.5°	763.2	760.6	763.2	763.2	763.2	764.9	761.5	758.8	753.5	761.5	755.3
40°	730.8	727.3	730.8	729.9	730.8	732.5	730.8	729.0	723.7	729.9	724.6
42.5°	693.9	693.0	693.9	694.7	694.7	698.3	700.9	697.5	695.6	691.3	694.7
45°	654.5	652.6	654.5	656.2	657.1	658.8	666.7	666.7	664.1	657.1	662.3
47.5°	612.3	607.9	612.3	617.6	617.6	620.2	628.1	634.2	629.9	621.1	623.8
50°	567.6	568.5	567.6	571.1	571.1	580.8	586.9	593.0	597.4	586.9	574.6
52.5°	523.7	522.9	523.7	526.4	529.8	534.2	544.8	551.0	557.9	551.8	532.5
55°	479.9	481.6	479.9	480.8	482.5	485.1	500.9	507.1	520.2	512.3	492.2
57.5°	436.0	433.4	436.0	437.8	438.6	441.2	454.4	465.8	473.7	474.6	450.1
60°	385.1	381.6	385.1	393.0	394.8	396.5	408.8	419.4	426.3	429.0	403.6
62.5°	340.4	334.3	340.4	345.7	349.2	353.5	362.3	378.1	384.2	385.1	349.2
65°	293.0	290.4	293.0	303.6	304.4	309.7	319.3	330.8	343.8	342.1	290.4
67.5°	250.0	250.0	250.0	257.1	262.3	264.9	277.2	282.5	299.1	300.9	242.2
70°	210.5	209.6	210.5	215.8	219.3	225.4	236.8	243.0	256.1	260.6	196.5
72.5°	172.8	172.0	172.8	177.2	180.7	186.0	195.6	202.7	214.1	219.3	152.6
75°	139.5	137.7	139.5	143.0	142.1	149.1	157.1	164.0	174.6	178.1	113.2
77.5°	107.0	107.0	107.0	110.6	110.6	117.6	121.0	129.8	136.0	141.3	83.4
80°	79.8	78.9	79.8	80.8	80.8	84.2	90.3	96.5	101.8	101.8	57.0
82.5°	56.2	54.4	56.2	56.2	56.2	57.9	61.4	63.1	66.7	69.3	35.9
85°	35.1	35.1	35.1	35.9	35.1	36.9	37.8	39.5	39.5	37.8	21.9
87.5°	22.8	21.9	22.8	21.9	21.9	21.0	21.0	21.0	20.1	19.3	12.3
90°	20.7	20.7	20.7	20.7	20.7	27.6	36.7	41.3	35.6	24.0	15.3
92.5°	82.8	66.4	82.8	99.2	103.3	146.5	204.1	232.8	204.4	147.6	105.0
95°	288.6	238.9	288.6	338.4	350.9	460.8	607.4	680.6	574.8	363.3	204.6
97.5°	691.6	596.8	691.6	786.4	810.1	879.6	972.2	1018.5	842.1	489.3	224.7
100°	996.5	883.5	996.5	1109.4	1137.7	1132.6	1125.8	1122.4	926.6	535.2	241.6
102.5°	1296.4	1199.7	1296.4	1393.2	1417.3	1328.8	1210.8	1151.8	953.3	556.3	258.5
105°	1678.8	1626.8	1678.8	1730.7	1743.7	1545.3	1280.8	1148.6	956.4	571.9	283.5
107.5°	1929.3	1941.8	1929.3	1916.6	1913.5	1636.7	1267.8	1083.2	913.7	574.8	320.5
110°	2024.8	2078.9	2024.8	1970.5	1957.0	1647.6	1235.1	1028.8	876.0	570.4	341.1





TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2033.2	2116.4	2033.2	1950.0	1929.3	1612.7	1190.4	979.3	843.1	570.6	366.2
115°	1979.3	2094.7	1979.3	1864.1	1835.2	1530.2	1123.4	920.0	805.2	575.8	403.7
117.5°	1865.0	1992.9	1865.0	1737.1	1705.1	1429.8	1062.7	879.2	781.6	586.4	440.1
120°	1772.9	1897.2	1772.9	1648.6	1617.5	1366.0	1030.6	862.9	773.7	595.3	461.4
122.5°	1683.2	1805.8	1683.2	1560.6	1529.9	1303.4	1001.4	850.4	769.5	607.7	486.4
125°	1555.2	1668.1	1555.2	1442.3	1414.1	1221.6	965.1	836.8	766.1	624.6	518.5
127.5°	1440.2	1535.4	1440.2	1344.9	1321.0	1155.8	935.5	825.4	764.1	641.5	549.6
130°	1372.3	1460.3	1372.3	1284.2	1262.3	1115.2	919.0	821.0	765.3	653.9	570.2
132.5°	1310.8	1389.6	1310.8	1231.9	1212.2	1080.5	905.0	817.2	766.1	663.8	587.1
135°	1226.4	1294.4	1226.4	1158.5	1141.5	1031.2	884.2	810.6	765.3	674.7	606.7
137.5°	1158.8	1214.4	1158.8	1103.1	1089.3	996.0	871.8	809.6	770.1	691.0	631.7
140°	1112.4	1164.3	1112.4	1060.3	1047.3	966.8	859.5	805.8	770.8	700.9	648.5
142.5°	1073.9	1118.6	1073.9	1029.1	1017.9	947.2	852.9	805.8	773.6	709.3	661.1
145°	1016.3	1050.1	1016.3	982.3	973.9	916.1	838.9	800.4	773.7	720.2	680.1
147.5°	972.0	1000.0	972.0	943.9	936.9	891.4	830.7	800.4	778.9	736.1	704.0
150°	944.1	966.8	944.1	921.3	915.6	877.2	826.0	800.4	781.7	744.5	716.6
152.5°	920.3	937.4	920.3	903.1	898.8	866.0	822.2	800.4	783.5	749.9	724.7
155°	892.9	904.2	892.9	881.5	878.7	852.6	817.8	800.4	787.5	761.9	742.6
157.5°	871.2	879.2	871.2	863.3	861.3	841.0	813.9	800.4	791.5	773.8	760.6
160°	858.3	862.9	858.3	853.7	852.6	835.1	812.0	800.4	793.4	779.3	768.8
162.5°	849.8	854.2	849.8	845.4	844.4	829.7	810.1	800.4	795.3	785.1	777.5
165°	837.7	842.2	837.7	833.1	831.9	821.4	807.3	800.4	798.1	793.5	790.0
167.5°	828.9	830.8	828.9	826.9	826.4	819.5	810.4	805.8	803.8	799.9	797.0
170°	826.4	826.4	826.4	826.4	826.4	819.5	810.4	805.8	805.7	805.4	805.2
172.5°	820.0	818.3	820.0	821.6	822.1	816.7	809.4	805.8	805.8	805.8	805.8
175°	816.1	816.1	816.1	816.1	816.1	812.6	808.0	805.8	806.8	809.0	810.6
177.5°	812.6	810.6	812.6	814.5	815.0	812.3	808.7	806.9	807.8	809.4	810.6
180°	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6



TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	940.4	935.2	935.2	926.4	922.9	920.3	915.8	902.7	899.2	895.7	900.9
5°	948.3	938.7	931.6	915.8	902.7	897.4	880.8	849.2	828.1	812.3	803.6
7.5°	950.1	937.8	924.6	900.0	868.5	854.4	803.6	745.7	729.9	715.9	707.0
10°	948.3	934.3	915.8	879.0	804.5	779.9	729.0	691.3	681.6	679.0	681.6
12.5°	942.1	929.0	903.6	842.1	737.7	721.1	691.3	669.4	667.5	672.0	695.6
15°	931.6	919.4	889.6	793.0	700.9	688.6	667.5	659.7	669.4	700.1	771.1
17.5°	921.1	907.1	870.2	744.8	672.9	664.1	649.1	664.9	719.3	760.6	784.2
20°	907.1	890.4	848.3	709.7	652.6	644.8	637.7	708.8	750.0	764.9	778.1
22.5°	890.4	872.8	818.5	685.2	631.6	625.5	629.9	733.4	750.0	760.6	772.0
25°	868.5	853.5	783.3	665.8	615.0	607.9	624.6	730.8	740.4	743.1	765.8
27.5°	848.3	829.0	746.5	648.3	594.8	592.1	629.0	719.3	726.4	729.0	753.5
30°	823.7	794.8	705.3	629.9	573.7	572.8	629.9	705.3	703.6	710.5	735.1
32.5°	798.3	743.9	658.8	607.0	553.6	552.7	623.8	684.3	682.5	692.1	710.5
35°	774.6	704.4	595.7	580.8	528.1	529.0	608.8	659.7	660.6	669.4	680.7
37.5°	750.0	670.2	526.4	551.8	503.5	503.5	588.6	636.8	635.1	637.7	653.6
40°	721.1	616.7	465.0	514.1	480.8	478.1	564.0	612.3	606.2	605.3	627.3
42.5°	690.4	557.9	419.4	464.1	454.4	450.9	534.2	582.5	571.1	573.7	601.8
45°	657.1	542.1	384.2	392.2	427.2	424.6	501.8	548.2	540.4	547.4	576.3
47.5°	623.8	510.6	372.8	325.4	398.3	397.4	465.8	514.9	510.6	517.6	548.2
50°	578.1	475.4	371.9	279.0	365.8	369.3	422.8	482.5	482.5	488.6	521.1
52.5°	519.3	432.4	337.7	252.6	328.1	338.6	385.1	454.4	456.2	462.4	491.2
55°	465.8	387.7	313.1	232.5	283.3	306.2	348.3	425.5	429.0	435.1	461.4
57.5°	416.7	322.8	307.9	208.8	242.2	264.1	315.9	397.4	399.1	404.4	429.8
60°	364.1	233.4	282.5	183.3	206.1	222.8	285.9	364.1	370.2	373.7	395.6
62.5°	304.4	169.3	256.1	165.8	188.6	192.1	261.4	332.5	340.4	343.0	356.1
65°	216.7	142.1	217.6	150.9	170.2	171.1	235.1	300.0	307.0	311.4	321.1
67.5°	146.5	115.8	165.8	136.8	156.2	157.1	209.6	262.3	272.0	275.5	281.6
70°	101.8	77.2	122.8	121.9	140.4	142.1	182.4	228.1	236.8	239.5	243.0
72.5°	74.6	62.3	101.8	109.6	123.7	125.5	154.4	189.5	198.3	200.9	202.7
75°	57.0	65.8	82.5	95.7	105.3	106.1	126.4	154.4	160.5	162.3	163.2
77.5°	45.6	61.4	60.5	77.2	86.0	84.2	99.2	119.3	124.5	124.5	124.5
80°	34.2	48.2	45.6	55.3	63.1	61.4	71.1	85.1	86.9	88.6	87.7
82.5°	25.5	30.7	30.7	35.1	42.1	40.4	47.4	55.3	55.3	55.3	57.0
85°	15.8	17.5	14.0	18.4	23.7	22.8	26.3	29.8	30.7	30.7	29.0
87.5°	9.7	7.9	4.4	7.0	10.6	10.6	12.3	13.2	12.3	12.3	12.3
90°	14.1	9.8	5.4	9.8	14.1	15.3	24.0	35.6	41.3	36.7	27.6
92.5°	95.7	58.8	21.8	58.8	95.7	105.0	147.6	204.4	232.8	204.1	146.5
95°	187.7	119.9	52.2	119.9	187.7	204.6	363.3	574.8	680.6	607.4	460.8
97.5°	209.8	150.1	90.3	150.1	209.8	224.7	489.3	842.1	1018.5	972.2	879.6
100°	228.0	173.9	119.7	173.9	228.0	241.6	535.2	926.6	1122.4	1125.8	1132.6
102.5°	245.8	195.3	144.8	195.3	245.8	258.5	556.3	953.3	1151.8	1210.8	1328.8
105°	272.8	230.0	187.1	230.0	272.8	283.5	571.9	956.4	1148.6	1280.8	1545.3
107.5°	310.5	270.6	230.7	270.6	310.5	320.5	574.8	913.7	1083.2	1267.8	1636.7
110°	332.2	296.1	260.0	296.1	332.2	341.1	570.4	876.0	1028.8	1235.1	1647.6



TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	357.6	323.3	288.9	323.3	357.6	366.2	570.6	843.1	979.3	1190.4	1612.7
115°	395.7	364.1	332.4	364.1	395.7	403.7	575.8	805.2	920.0	1123.4	1530.2
117.5°	433.0	404.2	375.4	404.2	433.0	440.1	586.4	781.6	879.2	1062.7	1429.8
120°	454.6	427.6	400.4	427.6	454.6	461.4	595.3	773.7	862.9	1030.6	1366.0
122.5°	479.6	452.2	424.9	452.2	479.6	486.4	607.7	769.5	850.4	1001.4	1303.4
125°	512.3	487.4	462.4	487.4	512.3	518.5	624.6	766.1	836.8	965.1	1221.6
127.5°	543.3	518.1	493.0	518.1	543.3	549.6	641.5	764.1	825.4	935.5	1155.8
130°	563.4	536.4	509.3	536.4	563.4	570.2	653.9	765.3	821.0	919.0	1115.2
132.5°	580.3	553.2	526.1	553.2	580.3	587.1	663.8	766.1	817.2	905.0	1080.5
135°	600.5	575.8	551.1	575.8	600.5	606.7	674.7	765.3	810.6	884.2	1031.2
137.5°	625.6	601.1	576.7	601.1	625.6	631.7	691.0	770.1	809.6	871.8	996.0
140°	643.0	620.5	598.0	620.5	643.0	648.5	700.9	770.8	805.8	859.5	966.8
142.5°	655.9	635.1	614.3	635.1	655.9	661.1	709.3	773.6	805.8	852.9	947.2
145°	675.6	657.4	639.3	657.4	675.6	680.1	720.2	773.7	800.4	838.9	916.1
147.5°	699.5	681.9	664.3	681.9	699.5	704.0	736.1	778.9	800.4	830.7	891.4
150°	712.5	696.6	680.6	696.6	712.5	716.6	744.5	781.7	800.4	826.0	877.2
152.5°	721.7	709.7	697.5	709.7	721.7	724.7	749.9	783.5	800.4	822.2	866.0
155°	740.4	731.5	722.6	731.5	740.4	742.6	761.9	787.5	800.4	817.8	852.6
157.5°	758.4	749.8	741.1	749.8	758.4	760.6	773.8	791.5	800.4	813.9	841.0
160°	767.1	760.3	753.5	760.3	767.1	768.8	779.3	793.4	800.4	812.0	835.1
162.5°	776.2	771.1	766.1	771.1	776.2	777.5	785.1	795.3	800.4	810.1	829.7
165°	788.8	784.2	779.7	784.2	788.8	790.0	793.5	798.1	800.4	807.3	821.4
167.5°	796.5	794.3	792.2	794.3	796.5	797.0	799.9	803.8	805.8	810.4	819.5
170°	804.7	802.5	800.4	802.5	804.7	805.2	805.4	805.7	805.8	810.4	819.5
172.5°	805.7	805.1	804.7	805.1	805.7	805.8	805.8	805.8	805.8	809.4	816.7
175°	810.6	810.6	810.6	810.6	810.6	810.6	809.0	806.8	805.8	808.0	812.6
177.5°	810.6	810.6	810.6	810.6	810.6	810.6	809.4	807.8	806.9	808.7	812.3
180°	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6



TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	894.8	892.2	895.7	886.0	895.7	892.2	894.8	900.9	895.7	899.2	902.7
5°	785.2	780.7	766.7	755.3	766.7	780.7	785.2	803.6	812.3	828.1	849.2
7.5°	701.8	698.3	694.7	687.8	694.7	698.3	701.8	707.0	715.9	729.9	745.7
10°	683.4	684.3	689.5	688.6	689.5	684.3	683.4	681.6	679.0	681.6	691.3
12.5°	730.8	738.6	767.6	765.8	767.6	738.6	730.8	695.6	672.0	667.5	669.4
15°	785.2	787.8	793.9	794.8	793.9	787.8	785.2	771.1	700.1	669.4	659.7
17.5°	790.4	791.3	795.6	795.6	795.6	791.3	790.4	784.2	760.6	719.3	664.9
20°	786.1	787.8	796.5	798.3	796.5	787.8	786.1	778.1	764.9	750.0	708.8
22.5°	784.2	787.8	794.8	793.9	794.8	787.8	784.2	772.0	760.6	750.0	733.4
25°	775.5	775.5	776.4	777.2	776.4	775.5	775.5	765.8	743.1	740.4	730.8
27.5°	757.1	758.8	764.1	763.2	764.1	758.8	757.1	753.5	729.0	726.4	719.3
30°	740.4	738.6	734.3	730.8	734.3	738.6	740.4	735.1	710.5	703.6	705.3
32.5°	712.4	707.9	703.6	700.9	703.6	707.9	712.4	710.5	692.1	682.5	684.3
35°	679.0	679.8	679.0	676.3	679.0	679.8	679.0	680.7	669.4	660.6	659.7
37.5°	655.3	657.1	656.2	652.6	656.2	657.1	655.3	653.6	637.7	635.1	636.8
40°	630.7	631.6	630.7	628.1	630.7	631.6	630.7	627.3	605.3	606.2	612.3
42.5°	607.0	606.2	603.5	601.8	603.5	606.2	607.0	601.8	573.7	571.1	582.5
45°	579.9	580.8	575.5	572.8	575.5	580.8	579.9	576.3	547.4	540.4	548.2
47.5°	552.7	552.7	548.2	545.6	548.2	552.7	552.7	548.2	517.6	510.6	514.9
50°	523.7	522.9	516.7	515.8	516.7	522.9	523.7	521.1	488.6	482.5	482.5
52.5°	490.3	490.3	491.2	493.0	491.2	490.3	490.3	491.2	462.4	456.2	454.4
55°	461.4	462.4	468.5	470.2	468.5	462.4	461.4	461.4	435.1	429.0	425.5
57.5°	431.6	431.6	436.0	436.0	436.0	431.6	431.6	429.8	404.4	399.1	397.4
60°	397.4	399.1	402.6	401.7	402.6	399.1	397.4	395.6	373.7	370.2	364.1
62.5°	361.5	363.2	364.1	362.3	364.1	363.2	361.5	356.1	343.0	340.4	332.5
65°	323.7	325.4	326.3	324.6	326.3	325.4	323.7	321.1	311.4	307.0	300.0
67.5°	285.1	284.2	283.3	286.9	283.3	284.2	285.1	281.6	275.5	272.0	262.3
70°	245.7	245.7	244.8	246.5	244.8	245.7	245.7	243.0	239.5	236.8	228.1
72.5°	203.5	202.7	206.1	203.5	206.1	202.7	203.5	202.7	200.9	198.3	189.5
75°	162.3	164.0	162.3	164.9	162.3	164.0	162.3	163.2	162.3	160.5	154.4
77.5°	123.7	125.5	123.7	123.7	123.7	125.5	123.7	124.5	124.5	124.5	119.3
80°	87.7	86.9	86.9	86.0	86.9	86.9	87.7	87.7	88.6	86.9	85.1
82.5°	56.2	55.3	55.3	57.0	55.3	55.3	56.2	57.0	55.3	55.3	55.3
85°	30.7	31.6	29.8	29.8	29.8	31.6	30.7	29.0	30.7	30.7	29.8
87.5°	11.4	10.6	10.6	10.6	10.6	10.6	11.4	12.3	12.3	12.3	13.2
90°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	27.6	36.7	41.3	35.6
92.5°	103.3	99.2	82.8	66.4	82.8	99.2	103.3	146.5	204.1	232.8	204.4
95°	350.9	338.4	288.6	238.9	288.6	338.4	350.9	460.8	607.4	680.6	574.8
97.5°	810.1	786.4	691.6	596.8	691.6	786.4	810.1	879.6	972.2	1018.5	842.1
100°	1137.7	1109.4	996.5	883.5	996.5	1109.4	1137.7	1132.6	1125.8	1122.4	926.6
102.5°	1417.3	1393.2	1296.4	1199.7	1296.4	1393.2	1417.3	1328.8	1210.8	1151.8	953.3
105°	1743.7	1730.7	1678.8	1626.8	1678.8	1730.7	1743.7	1545.3	1280.8	1148.6	956.4
107.5°	1913.5	1916.6	1929.3	1941.8	1929.3	1916.6	1913.5	1636.7	1267.8	1083.2	913.7
110°	1957.0	1970.5	2024.8	2078.9	2024.8	1970.5	1957.0	1647.6	1235.1	1028.8	876.0



TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1929.3	1950.0	2033.2	2116.4	2033.2	1950.0	1929.3	1612.7	1190.4	979.3	843.1
115°	1835.2	1864.1	1979.3	2094.7	1979.3	1864.1	1835.2	1530.2	1123.4	920.0	805.2
117.5°	1705.1	1737.1	1865.0	1992.9	1865.0	1737.1	1705.1	1429.8	1062.7	879.2	781.6
120°	1617.5	1648.6	1772.9	1897.2	1772.9	1648.6	1617.5	1366.0	1030.6	862.9	773.7
122.5°	1529.9	1560.6	1683.2	1805.8	1683.2	1560.6	1529.9	1303.4	1001.4	850.4	769.5
125°	1414.1	1442.3	1555.2	1668.1	1555.2	1442.3	1414.1	1221.6	965.1	836.8	766.1
127.5°	1321.0	1344.9	1440.2	1535.4	1440.2	1344.9	1321.0	1155.8	935.5	825.4	764.1
130°	1262.3	1284.2	1372.3	1460.3	1372.3	1284.2	1262.3	1115.2	919.0	821.0	765.3
132.5°	1212.2	1231.9	1310.8	1389.6	1310.8	1231.9	1212.2	1080.5	905.0	817.2	766.1
135°	1141.5	1158.5	1226.4	1294.4	1226.4	1158.5	1141.5	1031.2	884.2	810.6	765.3
137.5°	1089.3	1103.1	1158.8	1214.4	1158.8	1103.1	1089.3	996.0	871.8	809.6	770.1
140°	1047.3	1060.3	1112.4	1164.3	1112.4	1060.3	1047.3	966.8	859.5	805.8	770.8
142.5°	1017.9	1029.1	1073.9	1118.6	1073.9	1029.1	1017.9	947.2	852.9	805.8	773.6
145°	973.9	982.3	1016.3	1050.1	1016.3	982.3	973.9	916.1	838.9	800.4	773.7
147.5°	936.9	943.9	972.0	1000.0	972.0	943.9	936.9	891.4	830.7	800.4	778.9
150°	915.6	921.3	944.1	966.8	944.1	921.3	915.6	877.2	826.0	800.4	781.7
152.5°	898.8	903.1	920.3	937.4	920.3	903.1	898.8	866.0	822.2	800.4	783.5
155°	878.7	881.5	892.9	904.2	892.9	881.5	878.7	852.6	817.8	800.4	787.5
157.5°	861.3	863.3	871.2	879.2	871.2	863.3	861.3	841.0	813.9	800.4	791.5
160°	852.6	853.7	858.3	862.9	858.3	853.7	852.6	835.1	812.0	800.4	793.4
162.5°	844.4	845.4	849.8	854.2	849.8	845.4	844.4	829.7	810.1	800.4	795.3
165°	831.9	833.1	837.7	842.2	837.7	833.1	831.9	821.4	807.3	800.4	798.1
167.5°	826.4	826.9	828.9	830.8	828.9	826.9	826.4	819.5	810.4	805.8	803.8
170°	826.4	826.4	826.4	826.4	826.4	826.4	826.4	819.5	810.4	805.8	805.7
172.5°	822.1	821.6	820.0	818.3	820.0	821.6	822.1	816.7	809.4	805.8	805.8
175°	816.1	816.1	816.1	816.1	816.1	816.1	816.1	812.6	808.0	805.8	806.8
177.5°	815.0	814.5	812.6	810.6	812.6	814.5	815.0	812.3	808.7	806.9	807.8
180°	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6	810.6



TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	927.2	927.2	927.2	927.2	927.2
2.5°	915.8	920.3	922.9	926.4	935.2
5°	880.8	897.4	902.7	915.8	931.6
7.5°	803.6	854.4	868.5	900.0	924.6
10°	729.0	779.9	804.5	879.0	915.8
12.5°	691.3	721.1	737.7	842.1	903.6
15°	667.5	688.6	700.9	793.0	889.6
17.5°	649.1	664.1	672.9	744.8	870.2
20°	637.7	644.8	652.6	709.7	848.3
22.5°	629.9	625.5	631.6	685.2	818.5
25°	624.6	607.9	615.0	665.8	783.3
27.5°	629.0	592.1	594.8	648.3	746.5
30°	629.9	572.8	573.7	629.9	705.3
32.5°	623.8	552.7	553.6	607.0	658.8
35°	608.8	529.0	528.1	580.8	595.7
37.5°	588.6	503.5	503.5	551.8	526.4
40°	564.0	478.1	480.8	514.1	465.0
42.5°	534.2	450.9	454.4	464.1	419.4
45°	501.8	424.6	427.2	392.2	384.2
47.5°	465.8	397.4	398.3	325.4	372.8
50°	422.8	369.3	365.8	279.0	371.9
52.5°	385.1	338.6	328.1	252.6	337.7
55°	348.3	306.2	283.3	232.5	313.1
57.5°	315.9	264.1	242.2	208.8	307.9
60°	285.9	222.8	206.1	183.3	282.5
62.5°	261.4	192.1	188.6	165.8	256.1
65°	235.1	171.1	170.2	150.9	217.6
67.5°	209.6	157.1	156.2	136.8	165.8
70°	182.4	142.1	140.4	121.9	122.8
72.5°	154.4	125.5	123.7	109.6	101.8
75°	126.4	106.1	105.3	95.7	82.5
77.5°	99.2	84.2	86.0	77.2	60.5
80°	71.1	61.4	63.1	55.3	45.6
82.5°	47.4	40.4	42.1	35.1	30.7
85°	26.3	22.8	23.7	18.4	14.0
87.5°	12.3	10.6	10.6	7.0	4.4
90°	24.0	15.3	14.1	9.8	5.4
92.5°	147.6	105.0	95.7	58.8	21.8
95°	363.3	204.6	187.7	119.9	52.2
97.5°	489.3	224.7	209.8	150.1	90.3
100°	535.2	241.6	228.0	173.9	119.7
102.5°	556.3	258.5	245.8	195.3	144.8
105°	571.9	283.5	272.8	230.0	187.1
107.5°	574.8	320.5	310.5	270.6	230.7
110°	570.4	341.1	332.2	296.1	260.0



TEST NUMBER: P935038

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	570.6	366.2	357.6	323.3	288.9
115°	575.8	403.7	395.7	364.1	332.4
117.5°	586.4	440.1	433.0	404.2	375.4
120°	595.3	461.4	454.6	427.6	400.4
122.5°	607.7	486.4	479.6	452.2	424.9
125°	624.6	518.5	512.3	487.4	462.4
127.5°	641.5	549.6	543.3	518.1	493.0
130°	653.9	570.2	563.4	536.4	509.3
132.5°	663.8	587.1	580.3	553.2	526.1
135°	674.7	606.7	600.5	575.8	551.1
137.5°	691.0	631.7	625.6	601.1	576.7
140°	700.9	648.5	643.0	620.5	598.0
142.5°	709.3	661.1	655.9	635.1	614.3
145°	720.2	680.1	675.6	657.4	639.3
147.5°	736.1	704.0	699.5	681.9	664.3
150°	744.5	716.6	712.5	696.6	680.6
152.5°	749.9	724.7	721.7	709.7	697.5
155°	761.9	742.6	740.4	731.5	722.6
157.5°	773.8	760.6	758.4	749.8	741.1
160°	779.3	768.8	767.1	760.3	753.5
162.5°	785.1	777.5	776.2	771.1	766.1
165°	793.5	790.0	788.8	784.2	779.7
167.5°	799.9	797.0	796.5	794.3	792.2
170°	805.4	805.2	804.7	802.5	800.4
172.5°	805.8	805.8	805.7	805.1	804.7
175°	809.0	810.6	810.6	810.6	810.6
177.5°	809.4	810.6	810.6	810.6	810.6
180°	810.6	810.6	810.6	810.6	810.6



TEST NUMBER: P935038  
 CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3000K

**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	8.85	9.56	9.95	10.66	12.18	11.67	12.39	12.77	13.49	15.00
	3H	9.31	9.95	10.42	11.06	12.59	13.00	13.65	14.12	14.75	16.28
	4H	9.50	10.11	10.62	11.21	12.75	13.44	14.05	14.56	15.16	16.69
	6H	9.61	10.17	10.74	11.28	12.83	13.72	14.28	14.85	15.39	16.93
	8H	9.61	10.14	10.74	11.26	12.81	13.79	14.32	14.92	15.44	16.99
	12H	9.57	10.08	10.71	11.20	12.76	13.82	14.32	14.96	15.44	17.01
4H	2H	9.86	10.47	10.99	11.58	13.11	12.06	12.67	13.19	13.78	15.32
	3H	10.87	11.38	12.01	12.52	14.06	13.55	14.06	14.69	15.19	16.74
	4H	11.14	11.61	12.28	12.73	14.30	14.07	14.54	15.21	15.66	17.23
	6H	11.26	11.66	12.40	12.81	14.37	14.43	14.83	15.57	15.98	17.54
	8H	11.26	11.64	12.41	12.77	14.35	14.53	14.90	15.68	16.04	17.62
	12H	11.22	11.56	12.38	12.71	14.29	14.58	14.92	15.74	16.07	17.65
8H	4H	11.59	11.96	12.73	13.10	14.67	14.19	14.56	15.33	15.70	17.27
	6H	11.84	12.15	13.00	13.33	14.90	14.62	14.92	15.78	16.10	17.68
	8H	11.88	12.15	13.05	13.31	14.90	14.77	15.03	15.94	16.19	17.79
	12H	11.86	12.09	13.03	13.25	14.88	14.86	15.09	16.03	16.25	17.88
12H	4H	11.58	11.92	12.74	13.07	14.65	14.14	14.48	15.30	15.63	17.21
	6H	11.90	12.17	13.07	13.33	14.92	14.61	14.88	15.78	16.04	17.63
	8H	11.96	12.20	13.13	13.35	14.98	14.77	15.00	15.94	16.16	17.79