

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: P935039

Luminaire Tested: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935039
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-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

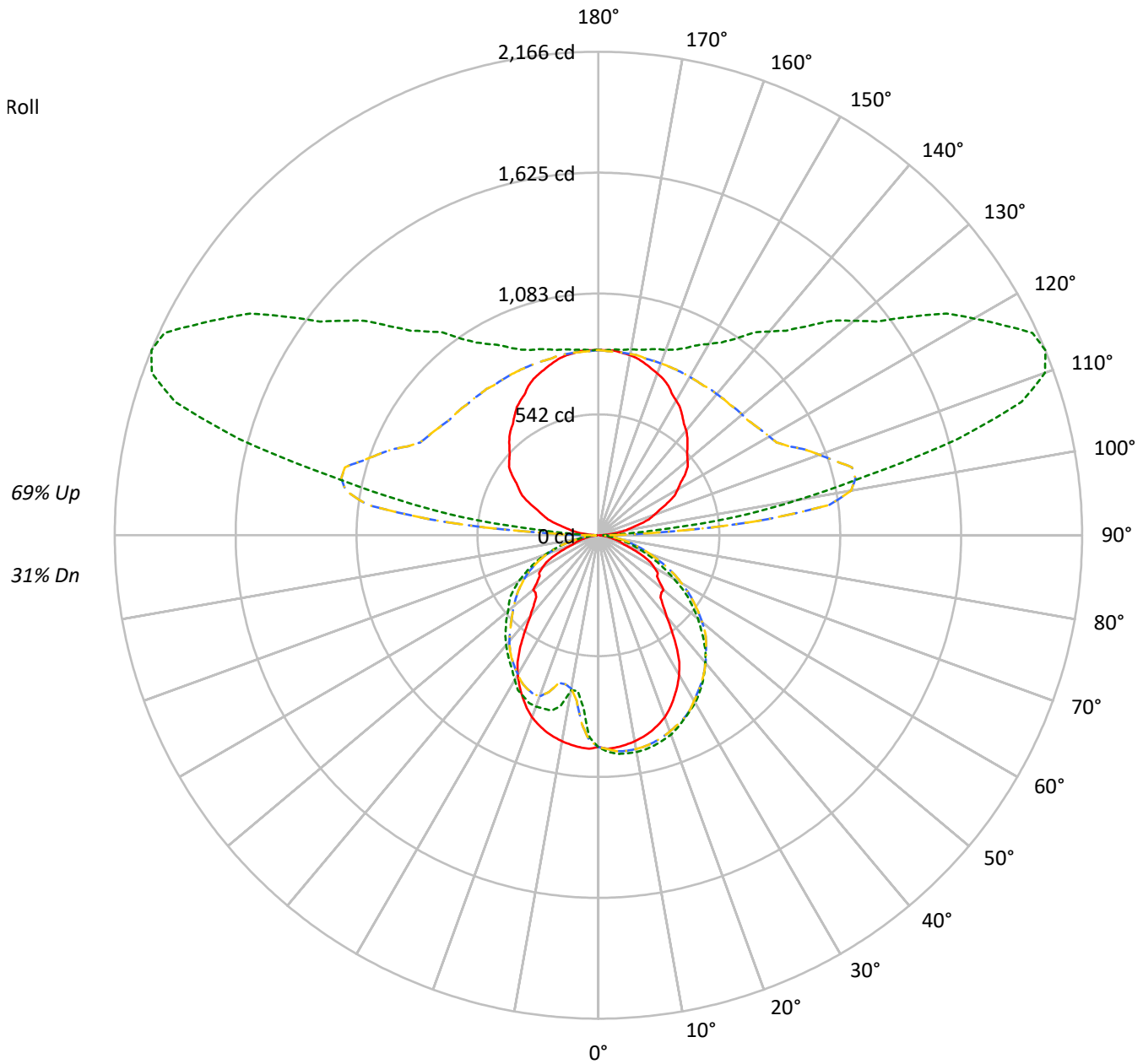
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7843.5 lumens
Efficiency: N/A
Efficacy: 126.9 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: P935039
CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3500K

Luminous Intensity Polar Plot



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



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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	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°	5871	5871	5871	5871
5°	5913	5927	5913	4660
10°	5871	5839	5871	4174
15°	5806	5712	5806	4769
20°	5682	5562	5682	4779
25°	5431	5344	5431	4678
30°	5108	5162	5108	4456
35°	4551	4933	4551	4211
40°	3790	4662	3790	4027
45°	3384	4346	3384	3815
50°	3592	3969	3592	3601
55°	3376	3563	3376	3478
60°	3476	3026	3476	3185
65°	3147	2501	3147	2795
70°	2174	1993	2174	2343
75°	1899	1473	1899	1764
80°	1520	974	1520	1061
85°	859	516	859	438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5191 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	1.1
10°-20°	243.3	3.1
20°-30°	376.0	4.8
30°-40°	448.9	5.7
40°-50°	451.5	5.8
50°-60°	392.9	5.0
60°-70°	278.6	3.6
70°-80°	147.4	1.9
80°-90°	39.9	0.5
90°-100°	404.5	5.2
100°-110°	1063.4	13.6
110°-120°	1102.7	14.1
120°-130°	884.5	11.3
130°-140°	694.0	8.8
140°-150°	532.7	6.8
150°-160°	383.6	4.9
160°-170°	234.7	3.0
170°-180°	79.3	1.0
0°-30°	705.0	9.0
0°-40°	1153.9	14.7
0°-60°	1998.3	25.5
0°-90°	2464.1	31.4
90°-120°	2570.6	32.8
90°-150°	4681.7	59.7
90°-180°	5379.0	68.6
0°-180°	7843.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	949	949	949	949	949	
5°	954	983	954	773	954	90
15°	911	974	911	814	911	256
25°	802	909	802	796	802	368
35°	610	811	610	692	610	377
45°	393	668	393	586	393	315
55°	320	493	320	481	320	295
65°	223	297	223	332	223	213
75°	84	141	84	169	84	89
85°	14	36	14	30	14	19
90°	6	21	6	21	6	5
95°	54	244	54	244	54	59
105°	192	1665	192	1665	192	203
115°	340	2144	340	2144	340	336
125°	473	1708	473	1708	473	420
135°	564	1325	564	1325	564	436
145°	654	1075	654	1075	654	410
155°	740	926	740	926	740	340
165°	798	862	798	862	798	225
175°	830	835	830	835	830	79
180°	830	830	830	830	830	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	957.2	957.2	962.6	964.4	964.4	961.7	959.0	961.7	969.8	972.5	971.6
5°	953.6	960.8	970.7	972.5	974.3	973.4	971.6	973.4	982.3	984.2	985.1
7.5°	946.4	959.9	972.5	975.2	977.9	975.2	974.3	976.1	985.1	986.9	986.9
10°	937.4	956.4	970.7	972.5	975.2	972.5	972.5	976.1	985.1	986.9	987.8
12.5°	924.9	950.9	964.4	966.2	969.8	968.9	968.0	971.6	980.5	982.3	982.3
15°	910.6	941.1	953.6	955.5	961.7	959.9	959.9	963.5	973.4	976.1	975.2
17.5°	890.7	928.5	942.9	945.6	950.0	949.1	950.0	953.6	962.6	964.4	965.3
20°	868.3	911.5	928.5	931.2	935.6	935.6	935.6	940.2	949.1	952.7	952.7
22.5°	837.8	893.4	911.5	913.2	918.6	918.6	920.4	926.7	934.8	935.6	935.6
25°	801.8	873.7	889.0	894.4	899.8	902.4	905.1	908.8	911.5	910.6	911.5
27.5°	764.2	848.5	868.3	871.9	879.1	881.8	885.4	886.3	887.2	889.9	888.1
30°	722.0	813.5	843.2	846.7	858.4	860.2	856.6	858.4	862.9	864.8	866.6
32.5°	674.4	761.5	817.1	825.2	836.0	830.6	829.7	832.4	839.6	839.6	841.4
35°	609.7	721.1	792.9	800.1	808.2	801.8	805.5	806.4	810.9	813.5	812.6
37.5°	538.8	686.1	767.7	773.1	779.4	771.3	776.8	779.4	783.0	781.2	781.2
40°	475.9	631.3	738.1	741.7	747.1	740.8	746.2	748.0	749.8	748.0	747.1
42.5°	429.3	571.1	706.7	711.2	707.6	712.0	713.9	717.5	714.8	711.2	711.2
45°	393.3	554.9	672.6	677.9	672.6	679.7	682.4	682.4	674.4	672.6	671.7
47.5°	381.6	522.6	638.5	638.5	635.7	644.7	649.2	643.0	634.8	632.2	632.2
50°	380.7	486.7	591.7	588.1	600.7	611.5	607.0	600.7	594.5	584.6	584.6
52.5°	345.7	442.7	531.6	545.0	564.8	571.1	564.0	557.6	546.8	542.4	538.8
55°	320.5	396.9	476.8	503.8	524.4	532.4	519.1	512.7	496.6	493.9	492.1
57.5°	315.2	330.4	426.5	460.7	485.8	484.9	476.8	465.1	451.7	449.0	448.1
60°	289.1	238.9	372.7	413.1	439.1	436.4	429.3	418.5	405.9	404.1	402.3
62.5°	262.2	173.3	311.6	357.4	394.2	393.3	387.0	370.9	361.9	357.4	353.8
65°	222.7	145.5	221.8	297.2	350.2	352.0	338.6	326.9	317.0	311.6	310.7
67.5°	169.7	118.5	150.0	247.9	308.0	306.2	289.1	283.8	271.2	268.5	263.1
70°	125.7	79.0	104.2	201.1	266.7	262.2	248.8	242.4	230.7	224.5	220.9
72.5°	104.2	63.7	76.3	156.2	224.5	219.1	207.4	200.2	190.4	185.0	181.4
75°	84.4	67.3	58.4	115.9	182.3	178.7	167.9	160.8	152.6	145.5	146.4
77.5°	61.9	62.8	46.7	85.3	144.6	139.2	132.9	123.9	120.3	113.2	113.2
80°	46.7	49.4	35.0	58.4	104.2	104.2	98.8	92.5	86.2	82.7	82.7
82.5°	31.4	31.4	26.1	36.8	71.0	68.3	64.6	62.8	59.3	57.5	57.5
85°	14.4	17.9	16.2	22.4	38.7	40.4	40.4	38.7	37.8	35.9	36.8
87.5°	4.5	8.1	9.9	12.6	19.7	20.6	21.5	21.5	21.5	22.4	22.4
90°	5.5	10.0	14.5	15.6	24.5	36.4	42.3	37.6	28.2	21.2	21.2
92.5°	22.3	60.2	98.0	107.5	151.1	209.2	238.3	208.9	150.0	105.8	101.6
95°	53.5	122.7	192.1	209.4	371.9	588.4	696.7	621.7	471.7	359.2	346.4
97.5°	92.5	153.6	214.8	230.0	500.8	862.0	1042.6	995.2	900.4	829.2	805.0
100°	122.6	178.0	233.4	247.3	547.8	948.5	1148.9	1152.4	1159.3	1164.5	1135.6
102.5°	148.2	199.9	251.6	264.6	569.4	975.8	1179.0	1239.4	1360.2	1450.8	1426.0
105°	191.6	235.4	279.2	290.2	585.4	978.9	1175.7	1311.1	1581.8	1784.9	1771.6
107.5°	236.1	277.0	317.9	328.0	588.3	935.3	1108.8	1297.7	1675.4	1958.7	1961.9
110°	266.2	303.0	340.0	349.2	583.9	896.7	1053.1	1264.2	1686.5	2003.2	2017.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	295.7	330.9	366.1	374.8	584.0	863.0	1002.4	1218.5	1650.7	1974.8	1996.1
115°	340.3	372.7	405.1	413.2	589.4	824.2	941.7	1149.9	1566.3	1878.5	1908.1
117.5°	384.3	413.7	443.2	450.5	600.3	800.1	899.9	1087.8	1463.5	1745.3	1778.1
120°	409.9	437.7	465.3	472.3	609.3	791.9	883.2	1054.9	1398.2	1655.7	1687.5
122.5°	435.0	462.9	490.9	497.9	622.1	787.6	870.5	1025.1	1334.2	1566.0	1597.4
125°	473.4	498.9	524.4	530.8	639.4	784.2	856.6	987.9	1250.5	1447.5	1476.4
127.5°	504.6	530.3	556.1	562.5	656.6	782.1	844.9	957.6	1183.1	1352.2	1376.6
130°	521.3	549.1	576.7	583.7	669.3	783.4	840.4	940.7	1141.5	1292.1	1314.6
132.5°	538.5	566.3	593.9	600.9	679.5	784.2	836.5	926.4	1106.0	1240.8	1261.0
135°	564.1	589.4	614.7	621.0	690.6	783.4	829.8	905.0	1055.5	1168.4	1185.8
137.5°	590.3	615.3	640.4	646.6	707.3	788.3	828.7	892.4	1019.6	1115.0	1129.2
140°	612.1	635.1	658.1	663.8	717.5	789.0	824.8	879.8	989.6	1072.0	1085.3
142.5°	628.8	650.1	671.3	676.7	726.1	791.8	824.8	873.1	969.6	1042.0	1053.4
145°	654.4	672.9	691.5	696.2	737.2	791.9	819.2	858.7	937.7	996.9	1005.5
147.5°	680.0	698.0	716.1	720.6	753.5	797.3	819.2	850.3	912.4	959.0	966.2
150°	696.7	713.0	729.4	733.5	762.0	800.1	819.2	845.5	897.9	937.3	943.1
152.5°	714.0	726.4	738.7	741.9	767.7	802.0	819.2	841.7	886.5	920.0	924.4
155°	739.6	748.7	757.8	760.2	779.9	806.1	819.2	837.1	872.7	899.4	902.3
157.5°	758.5	767.5	776.3	778.5	792.1	810.2	819.2	833.1	860.8	881.6	883.7
160°	771.3	778.3	785.2	786.9	797.7	812.1	819.2	831.1	854.9	872.7	873.9
162.5°	784.2	789.3	794.5	795.9	803.6	814.1	819.2	829.2	849.3	864.3	865.4
165°	798.1	802.7	807.5	808.6	812.2	816.9	819.2	826.4	840.8	851.6	852.7
167.5°	810.9	813.1	815.3	815.9	818.8	822.8	824.8	829.5	838.9	845.9	846.5
170°	819.2	821.5	823.7	824.2	824.4	824.7	824.8	829.5	838.9	845.9	845.9
172.5°	823.7	824.2	824.7	824.8	824.8	824.8	824.8	828.5	835.9	841.5	841.0
175°	829.8	829.8	829.8	829.8	828.1	825.9	824.8	827.1	831.8	835.4	835.4
177.5°	829.8	829.8	829.8	829.8	828.5	826.8	825.9	827.8	831.5	834.2	833.7
180°	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	973.4	970.7	973.4	971.6	972.5	969.8	961.7	959.0	961.7	964.4	964.4
5°	985.1	983.2	985.1	985.1	984.2	982.3	973.4	971.6	973.4	974.3	972.5
7.5°	988.7	986.0	988.7	986.9	986.9	985.1	976.1	974.3	975.2	977.9	975.2
10°	988.7	986.0	988.7	987.8	986.9	985.1	976.1	972.5	972.5	975.2	972.5
12.5°	984.2	982.3	984.2	982.3	982.3	980.5	971.6	968.0	968.9	969.8	966.2
15°	977.0	974.3	977.0	975.2	976.1	973.4	963.5	959.9	959.9	961.7	955.5
17.5°	966.2	962.6	966.2	965.3	964.4	962.6	953.6	950.0	949.1	950.0	945.6
20°	953.6	950.9	953.6	952.7	952.7	949.1	940.2	935.6	935.6	935.6	931.2
22.5°	933.9	931.2	933.9	935.6	935.6	934.8	926.7	920.4	918.6	918.6	913.2
25°	911.5	908.8	911.5	911.5	910.6	911.5	908.8	905.1	902.4	899.8	894.4
27.5°	889.9	888.1	889.9	888.1	889.9	887.2	886.3	885.4	881.8	879.1	871.9
30°	868.3	866.6	868.3	866.6	864.8	862.9	858.4	856.6	860.2	858.4	846.7
32.5°	841.4	839.6	841.4	841.4	839.6	839.6	832.4	829.7	830.6	836.0	825.2
35°	813.5	810.9	813.5	812.6	813.5	810.9	806.4	805.5	801.8	808.2	800.1
37.5°	781.2	778.5	781.2	781.2	781.2	783.0	779.4	776.8	771.3	779.4	773.1
40°	748.0	744.4	748.0	747.1	748.0	749.8	748.0	746.2	740.8	747.1	741.7
42.5°	710.3	709.4	710.3	711.2	711.2	714.8	717.5	713.9	712.0	707.6	711.2
45°	669.9	668.0	669.9	671.7	672.6	674.4	682.4	682.4	679.7	672.6	677.9
47.5°	626.8	622.2	626.8	632.2	632.2	634.8	643.0	649.2	644.7	635.7	638.5
50°	581.0	581.9	581.0	584.6	584.6	594.5	600.7	607.0	611.5	600.7	588.1
52.5°	536.1	535.2	536.1	538.8	542.4	546.8	557.6	564.0	571.1	564.8	545.0
55°	491.2	493.0	491.2	492.1	493.9	496.6	512.7	519.1	532.4	524.4	503.8
57.5°	446.3	443.6	446.3	448.1	449.0	451.7	465.1	476.8	484.9	485.8	460.7
60°	394.2	390.6	394.2	402.3	404.1	405.9	418.5	429.3	436.4	439.1	413.1
62.5°	348.4	342.1	348.4	353.8	357.4	361.9	370.9	387.0	393.3	394.2	357.4
65°	299.9	297.2	299.9	310.7	311.6	317.0	326.9	338.6	352.0	350.2	297.2
67.5°	255.9	255.9	255.9	263.1	268.5	271.2	283.8	289.1	306.2	308.0	247.9
70°	215.5	214.6	215.5	220.9	224.5	230.7	242.4	248.8	262.2	266.7	201.1
72.5°	176.9	176.0	176.9	181.4	185.0	190.4	200.2	207.4	219.1	224.5	156.2
75°	142.8	140.9	142.8	146.4	145.5	152.6	160.8	167.9	178.7	182.3	115.9
77.5°	109.5	109.5	109.5	113.2	113.2	120.3	123.9	132.9	139.2	144.6	85.3
80°	81.7	80.8	81.7	82.7	82.7	86.2	92.5	98.8	104.2	104.2	58.4
82.5°	57.5	55.7	57.5	57.5	57.5	59.3	62.8	64.6	68.3	71.0	36.8
85°	35.9	35.9	35.9	36.8	35.9	37.8	38.7	40.4	40.4	38.7	22.4
87.5°	23.4	22.4	23.4	22.4	22.4	21.5	21.5	21.5	20.6	19.7	12.6
90°	21.2	21.2	21.2	21.2	21.2	28.2	37.6	42.3	36.4	24.5	15.6
92.5°	84.7	67.9	84.7	101.6	105.8	150.0	208.9	238.3	209.2	151.1	107.5
95°	295.5	244.5	295.5	346.4	359.2	471.7	621.7	696.7	588.4	371.9	209.4
97.5°	707.9	610.9	707.9	805.0	829.2	900.4	995.2	1042.6	862.0	500.8	230.0
100°	1020.0	904.4	1020.0	1135.6	1164.5	1159.3	1152.4	1148.9	948.5	547.8	247.3
102.5°	1327.0	1228.0	1327.0	1426.0	1450.8	1360.2	1239.4	1179.0	975.8	569.4	264.6
105°	1718.4	1665.2	1718.4	1771.6	1784.9	1581.8	1311.1	1175.7	978.9	585.4	290.2
107.5°	1974.8	1987.7	1974.8	1961.9	1958.7	1675.4	1297.7	1108.8	935.3	588.3	328.0
110°	2072.6	2128.0	2072.6	2017.1	2003.2	1686.5	1264.2	1053.1	896.7	583.9	349.2



TEST NUMBER: P935039

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2081.2	2166.4	2081.2	1996.1	1974.8	1650.7	1218.5	1002.4	863.0	584.0	374.8
115°	2026.1	2144.2	2026.1	1908.1	1878.5	1566.3	1149.9	941.7	824.2	589.4	413.2
117.5°	1909.0	2040.0	1909.0	1778.1	1745.3	1463.5	1087.8	899.9	800.1	600.3	450.5
120°	1814.8	1942.0	1814.8	1687.5	1655.7	1398.2	1054.9	883.2	791.9	609.3	472.3
122.5°	1722.9	1848.4	1722.9	1597.4	1566.0	1334.2	1025.1	870.5	787.6	622.1	497.9
125°	1591.9	1707.5	1591.9	1476.4	1447.5	1250.5	987.9	856.6	784.2	639.4	530.8
127.5°	1474.2	1571.6	1474.2	1376.6	1352.2	1183.1	957.6	844.9	782.1	656.6	562.5
130°	1404.7	1494.8	1404.7	1314.6	1292.1	1141.5	940.7	840.4	783.4	669.3	583.7
132.5°	1341.7	1422.4	1341.7	1261.0	1240.8	1106.0	926.4	836.5	784.2	679.5	600.9
135°	1255.4	1324.9	1255.4	1185.8	1168.4	1055.5	905.0	829.8	783.4	690.6	621.0
137.5°	1186.1	1243.1	1186.1	1129.2	1115.0	1019.6	892.4	828.7	788.3	707.3	646.6
140°	1138.6	1191.8	1138.6	1085.3	1072.0	989.6	879.8	824.8	789.0	717.5	663.8
142.5°	1099.3	1145.1	1099.3	1053.4	1042.0	969.6	873.1	824.8	791.8	726.1	676.7
145°	1040.3	1074.9	1040.3	1005.5	996.9	937.7	858.7	819.2	791.9	737.2	696.2
147.5°	994.9	1023.7	994.9	966.2	959.0	912.4	850.3	819.2	797.3	753.5	720.6
150°	966.4	989.6	966.4	943.1	937.3	897.9	845.5	819.2	800.1	762.0	733.5
152.5°	942.0	959.6	942.0	924.4	920.0	886.5	841.7	819.2	802.0	767.7	741.9
155°	914.0	925.6	914.0	902.3	899.4	872.7	837.1	819.2	806.1	779.9	760.2
157.5°	891.8	899.9	891.8	883.7	881.6	860.8	833.1	819.2	810.2	792.1	778.5
160°	878.6	883.2	878.6	873.9	872.7	854.9	831.1	819.2	812.1	797.7	786.9
162.5°	869.9	874.3	869.9	865.4	864.3	849.3	829.2	819.2	814.1	803.6	795.9
165°	857.5	862.1	857.5	852.7	851.6	840.8	826.4	819.2	816.9	812.2	808.6
167.5°	848.4	850.4	848.4	846.5	845.9	838.9	829.5	824.8	822.8	818.8	815.9
170°	845.9	845.9	845.9	845.9	845.9	838.9	829.5	824.8	824.7	824.4	824.2
172.5°	839.3	837.6	839.3	841.0	841.5	835.9	828.5	824.8	824.8	824.8	824.8
175°	835.4	835.4	835.4	835.4	835.4	831.8	827.1	824.8	825.9	828.1	829.8
177.5°	831.7	829.8	831.7	833.7	834.2	831.5	827.8	825.9	826.8	828.5	829.8
180°	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8



TEST NUMBER: P935039

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	962.6	957.2	957.2	948.2	944.7	942.0	937.4	924.0	920.4	916.8	922.2
5°	970.7	960.8	953.6	937.4	924.0	918.6	901.5	869.2	847.6	831.5	822.5
7.5°	972.5	959.9	946.4	921.3	889.0	874.6	822.5	763.3	747.1	732.8	723.7
10°	970.7	956.4	937.4	899.8	823.4	798.3	746.2	707.6	697.7	695.0	697.7
12.5°	964.4	950.9	924.9	862.0	755.2	738.1	707.6	685.2	683.3	687.9	712.0
15°	953.6	941.1	910.6	811.7	717.5	704.9	683.3	675.3	685.2	716.6	789.3
17.5°	942.9	928.5	890.7	762.4	688.7	679.7	664.5	680.6	736.3	778.5	802.7
20°	928.5	911.5	868.3	726.4	668.0	660.0	652.8	725.5	767.7	783.0	796.5
22.5°	911.5	893.4	837.8	701.3	646.5	640.3	644.7	750.7	767.7	778.5	790.2
25°	889.0	873.7	801.8	681.5	629.5	622.2	639.4	748.0	757.8	760.6	783.9
27.5°	868.3	848.5	764.2	663.6	608.9	606.1	643.8	736.3	743.6	746.2	771.3
30°	843.2	813.5	722.0	644.7	587.3	586.4	644.7	722.0	720.2	727.3	752.5
32.5°	817.1	761.5	674.4	621.4	566.6	565.7	638.5	700.4	698.7	708.5	727.3
35°	792.9	721.1	609.7	594.5	540.6	541.5	623.1	675.3	676.2	685.2	696.8
37.5°	767.7	686.1	538.8	564.8	515.4	515.4	602.5	651.9	650.1	652.8	669.0
40°	738.1	631.3	475.9	526.2	492.1	489.4	577.3	626.8	620.5	619.6	642.1
42.5°	706.7	571.1	429.3	475.1	465.1	461.6	546.8	596.3	584.6	587.3	616.0
45°	672.6	554.9	393.3	401.4	437.3	434.6	513.6	561.2	553.2	560.3	589.9
47.5°	638.5	522.6	381.6	333.1	407.7	406.8	476.8	527.1	522.6	529.8	561.2
50°	591.7	486.7	380.7	285.5	374.5	378.0	432.8	493.9	493.9	500.1	533.4
52.5°	531.6	442.7	345.7	258.6	335.8	346.6	394.2	465.1	466.9	473.3	502.8
55°	476.8	396.9	320.5	238.0	290.0	313.4	356.5	435.5	439.1	445.4	472.3
57.5°	426.5	330.4	315.2	213.7	247.9	270.3	323.3	406.8	408.6	414.0	440.0
60°	372.7	238.9	289.1	187.6	211.0	228.1	292.7	372.7	378.9	382.5	405.0
62.5°	311.6	173.3	262.2	169.7	193.1	196.6	267.6	340.4	348.4	351.1	364.5
65°	221.8	145.5	222.7	154.4	174.2	175.1	240.7	307.1	314.3	318.8	328.7
67.5°	150.0	118.5	169.7	140.1	159.9	160.8	214.6	268.5	278.4	282.0	288.2
70°	104.2	79.0	125.7	124.8	143.7	145.5	186.7	233.5	242.4	245.1	248.8
72.5°	76.3	63.7	104.2	112.2	126.6	128.4	158.1	194.0	203.0	205.7	207.4
75°	58.4	67.3	84.4	97.9	107.7	108.6	129.3	158.1	164.3	166.1	167.0
77.5°	46.7	62.8	61.9	79.0	88.0	86.2	101.5	122.1	127.5	127.5	127.5
80°	35.0	49.4	46.7	56.6	64.6	62.8	72.7	87.1	88.9	90.7	89.8
82.5°	26.1	31.4	31.4	35.9	43.1	41.3	48.5	56.6	56.6	56.6	58.4
85°	16.2	17.9	14.4	18.8	24.3	23.4	27.0	30.5	31.4	31.4	29.6
87.5°	9.9	8.1	4.5	7.1	10.8	10.8	12.6	13.5	12.6	12.6	12.6
90°	14.5	10.0	5.5	10.0	14.5	15.6	24.5	36.4	42.3	37.6	28.2
92.5°	98.0	60.2	22.3	60.2	98.0	107.5	151.1	209.2	238.3	208.9	150.0
95°	192.1	122.7	53.5	122.7	192.1	209.4	371.9	588.4	696.7	621.7	471.7
97.5°	214.8	153.6	92.5	153.6	214.8	230.0	500.8	862.0	1042.6	995.2	900.4
100°	233.4	178.0	122.6	178.0	233.4	247.3	547.8	948.5	1148.9	1152.4	1159.3
102.5°	251.6	199.9	148.2	199.9	251.6	264.6	569.4	975.8	1179.0	1239.4	1360.2
105°	279.2	235.4	191.6	235.4	279.2	290.2	585.4	978.9	1175.7	1311.1	1581.8
107.5°	317.9	277.0	236.1	277.0	317.9	328.0	588.3	935.3	1108.8	1297.7	1675.4
110°	340.0	303.0	266.2	303.0	340.0	349.2	583.9	896.7	1053.1	1264.2	1686.5



TEST NUMBER: P935039

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	366.1	330.9	295.7	330.9	366.1	374.8	584.0	863.0	1002.4	1218.5	1650.7
115°	405.1	372.7	340.3	372.7	405.1	413.2	589.4	824.2	941.7	1149.9	1566.3
117.5°	443.2	413.7	384.3	413.7	443.2	450.5	600.3	800.1	899.9	1087.8	1463.5
120°	465.3	437.7	409.9	437.7	465.3	472.3	609.3	791.9	883.2	1054.9	1398.2
122.5°	490.9	462.9	435.0	462.9	490.9	497.9	622.1	787.6	870.5	1025.1	1334.2
125°	524.4	498.9	473.4	498.9	524.4	530.8	639.4	784.2	856.6	987.9	1250.5
127.5°	556.1	530.3	504.6	530.3	556.1	562.5	656.6	782.1	844.9	957.6	1183.1
130°	576.7	549.1	521.3	549.1	576.7	583.7	669.3	783.4	840.4	940.7	1141.5
132.5°	593.9	566.3	538.5	566.3	593.9	600.9	679.5	784.2	836.5	926.4	1106.0
135°	614.7	589.4	564.1	589.4	614.7	621.0	690.6	783.4	829.8	905.0	1055.5
137.5°	640.4	615.3	590.3	615.3	640.4	646.6	707.3	788.3	828.7	892.4	1019.6
140°	658.1	635.1	612.1	635.1	658.1	663.8	717.5	789.0	824.8	879.8	989.6
142.5°	671.3	650.1	628.8	650.1	671.3	676.7	726.1	791.8	824.8	873.1	969.6
145°	691.5	672.9	654.4	672.9	691.5	696.2	737.2	791.9	819.2	858.7	937.7
147.5°	716.1	698.0	680.0	698.0	716.1	720.6	753.5	797.3	819.2	850.3	912.4
150°	729.4	713.0	696.7	713.0	729.4	733.5	762.0	800.1	819.2	845.5	897.9
152.5°	738.7	726.4	714.0	726.4	738.7	741.9	767.7	802.0	819.2	841.7	886.5
155°	757.8	748.7	739.6	748.7	757.8	760.2	779.9	806.1	819.2	837.1	872.7
157.5°	776.3	767.5	758.5	767.5	776.3	778.5	792.1	810.2	819.2	833.1	860.8
160°	785.2	778.3	771.3	778.3	785.2	786.9	797.7	812.1	819.2	831.1	854.9
162.5°	794.5	789.3	784.2	789.3	794.5	795.9	803.6	814.1	819.2	829.2	849.3
165°	807.5	802.7	798.1	802.7	807.5	808.6	812.2	816.9	819.2	826.4	840.8
167.5°	815.3	813.1	810.9	813.1	815.3	815.9	818.8	822.8	824.8	829.5	838.9
170°	823.7	821.5	819.2	821.5	823.7	824.2	824.4	824.7	824.8	829.5	838.9
172.5°	824.7	824.2	823.7	824.2	824.7	824.8	824.8	824.8	824.8	828.5	835.9
175°	829.8	829.8	829.8	829.8	829.8	829.8	828.1	825.9	824.8	827.1	831.8
177.5°	829.8	829.8	829.8	829.8	829.8	829.8	828.5	826.8	825.9	827.8	831.5
180°	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8



TEST NUMBER: P935039

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	915.9	913.2	916.8	906.9	916.8	913.2	915.9	922.2	916.8	920.4	924.0
5°	803.7	799.2	784.8	773.1	784.8	799.2	803.7	822.5	831.5	847.6	869.2
7.5°	718.4	714.8	711.2	704.0	711.2	714.8	718.4	723.7	732.8	747.1	763.3
10°	699.5	700.4	705.8	704.9	705.8	700.4	699.5	697.7	695.0	697.7	707.6
12.5°	748.0	756.0	785.7	783.9	785.7	756.0	748.0	712.0	687.9	683.3	685.2
15°	803.7	806.4	812.6	813.5	812.6	806.4	803.7	789.3	716.6	685.2	675.3
17.5°	809.1	810.0	814.4	814.4	814.4	810.0	809.1	802.7	778.5	736.3	680.6
20°	804.6	806.4	815.3	817.1	815.3	806.4	804.6	796.5	783.0	767.7	725.5
22.5°	802.7	806.4	813.5	812.6	813.5	806.4	802.7	790.2	778.5	767.7	750.7
25°	793.8	793.8	794.7	795.6	794.7	793.8	793.8	783.9	760.6	757.8	748.0
27.5°	775.0	776.8	782.1	781.2	782.1	776.8	775.0	771.3	746.2	743.6	736.3
30°	757.8	756.0	751.6	748.0	751.6	756.0	757.8	752.5	727.3	720.2	722.0
32.5°	729.2	724.6	720.2	717.5	720.2	724.6	729.2	727.3	708.5	698.7	700.4
35°	695.0	695.9	695.0	692.3	695.0	695.9	695.0	696.8	685.2	676.2	675.3
37.5°	670.8	672.6	671.7	668.0	671.7	672.6	670.8	669.0	652.8	650.1	651.9
40°	645.6	646.5	645.6	643.0	645.6	646.5	645.6	642.1	619.6	620.5	626.8
42.5°	621.4	620.5	617.8	616.0	617.8	620.5	621.4	616.0	587.3	584.6	596.3
45°	593.6	594.5	589.0	586.4	589.0	594.5	593.6	589.9	560.3	553.2	561.2
47.5°	565.7	565.7	561.2	558.5	561.2	565.7	565.7	561.2	529.8	522.6	527.1
50°	536.1	535.2	528.9	528.0	528.9	535.2	536.1	533.4	500.1	493.9	493.9
52.5°	501.9	501.9	502.8	504.7	502.8	501.9	501.9	502.8	473.3	466.9	465.1
55°	472.3	473.3	479.5	481.3	479.5	473.3	472.3	472.3	445.4	439.1	435.5
57.5°	441.8	441.8	446.3	446.3	446.3	441.8	441.8	440.0	414.0	408.6	406.8
60°	406.8	408.6	412.1	411.2	412.1	408.6	406.8	405.0	382.5	378.9	372.7
62.5°	370.0	371.8	372.7	370.9	372.7	371.8	370.0	364.5	351.1	348.4	340.4
65°	331.3	333.1	334.0	332.2	334.0	333.1	331.3	328.7	318.8	314.3	307.1
67.5°	291.8	290.9	290.0	293.7	290.0	290.9	291.8	288.2	282.0	278.4	268.5
70°	251.5	251.5	250.6	252.3	250.6	251.5	251.5	248.8	245.1	242.4	233.5
72.5°	208.3	207.4	211.0	208.3	211.0	207.4	208.3	207.4	205.7	203.0	194.0
75°	166.1	167.9	166.1	168.8	166.1	167.9	166.1	167.0	166.1	164.3	158.1
77.5°	126.6	128.4	126.6	126.6	126.6	128.4	126.6	127.5	127.5	127.5	122.1
80°	89.8	88.9	88.9	88.0	88.9	88.9	89.8	89.8	90.7	88.9	87.1
82.5°	57.5	56.6	56.6	58.4	56.6	56.6	57.5	58.4	56.6	56.6	56.6
85°	31.4	32.3	30.5	30.5	30.5	32.3	31.4	29.6	31.4	31.4	30.5
87.5°	11.7	10.8	10.8	10.8	10.8	10.8	11.7	12.6	12.6	12.6	13.5
90°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	28.2	37.6	42.3	36.4
92.5°	105.8	101.6	84.7	67.9	84.7	101.6	105.8	150.0	208.9	238.3	209.2
95°	359.2	346.4	295.5	244.5	295.5	346.4	359.2	471.7	621.7	696.7	588.4
97.5°	829.2	805.0	707.9	610.9	707.9	805.0	829.2	900.4	995.2	1042.6	862.0
100°	1164.5	1135.6	1020.0	904.4	1020.0	1135.6	1164.5	1159.3	1152.4	1148.9	948.5
102.5°	1450.8	1426.0	1327.0	1228.0	1327.0	1426.0	1450.8	1360.2	1239.4	1179.0	975.8
105°	1784.9	1771.6	1718.4	1665.2	1718.4	1771.6	1784.9	1581.8	1311.1	1175.7	978.9
107.5°	1958.7	1961.9	1974.8	1987.7	1974.8	1961.9	1958.7	1675.4	1297.7	1108.8	935.3
110°	2003.2	2017.1	2072.6	2128.0	2072.6	2017.1	2003.2	1686.5	1264.2	1053.1	896.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1974.8	1996.1	2081.2	2166.4	2081.2	1996.1	1974.8	1650.7	1218.5	1002.4	863.0
115°	1878.5	1908.1	2026.1	2144.2	2026.1	1908.1	1878.5	1566.3	1149.9	941.7	824.2
117.5°	1745.3	1778.1	1909.0	2040.0	1909.0	1778.1	1745.3	1463.5	1087.8	899.9	800.1
120°	1655.7	1687.5	1814.8	1942.0	1814.8	1687.5	1655.7	1398.2	1054.9	883.2	791.9
122.5°	1566.0	1597.4	1722.9	1848.4	1722.9	1597.4	1566.0	1334.2	1025.1	870.5	787.6
125°	1447.5	1476.4	1591.9	1707.5	1591.9	1476.4	1447.5	1250.5	987.9	856.6	784.2
127.5°	1352.2	1376.6	1474.2	1571.6	1474.2	1376.6	1352.2	1183.1	957.6	844.9	782.1
130°	1292.1	1314.6	1404.7	1494.8	1404.7	1314.6	1292.1	1141.5	940.7	840.4	783.4
132.5°	1240.8	1261.0	1341.7	1422.4	1341.7	1261.0	1240.8	1106.0	926.4	836.5	784.2
135°	1168.4	1185.8	1255.4	1324.9	1255.4	1185.8	1168.4	1055.5	905.0	829.8	783.4
137.5°	1115.0	1129.2	1186.1	1243.1	1186.1	1129.2	1115.0	1019.6	892.4	828.7	788.3
140°	1072.0	1085.3	1138.6	1191.8	1138.6	1085.3	1072.0	989.6	879.8	824.8	789.0
142.5°	1042.0	1053.4	1099.3	1145.1	1099.3	1053.4	1042.0	969.6	873.1	824.8	791.8
145°	996.9	1005.5	1040.3	1074.9	1040.3	1005.5	996.9	937.7	858.7	819.2	791.9
147.5°	959.0	966.2	994.9	1023.7	994.9	966.2	959.0	912.4	850.3	819.2	797.3
150°	937.3	943.1	966.4	989.6	966.4	943.1	937.3	897.9	845.5	819.2	800.1
152.5°	920.0	924.4	942.0	959.6	942.0	924.4	920.0	886.5	841.7	819.2	802.0
155°	899.4	902.3	914.0	925.6	914.0	902.3	899.4	872.7	837.1	819.2	806.1
157.5°	881.6	883.7	891.8	899.9	891.8	883.7	881.6	860.8	833.1	819.2	810.2
160°	872.7	873.9	878.6	883.2	878.6	873.9	872.7	854.9	831.1	819.2	812.1
162.5°	864.3	865.4	869.9	874.3	869.9	865.4	864.3	849.3	829.2	819.2	814.1
165°	851.6	852.7	857.5	862.1	857.5	852.7	851.6	840.8	826.4	819.2	816.9
167.5°	845.9	846.5	848.4	850.4	848.4	846.5	845.9	838.9	829.5	824.8	822.8
170°	845.9	845.9	845.9	845.9	845.9	845.9	845.9	838.9	829.5	824.8	824.7
172.5°	841.5	841.0	839.3	837.6	839.3	841.0	841.5	835.9	828.5	824.8	824.8
175°	835.4	835.4	835.4	835.4	835.4	835.4	835.4	831.8	827.1	824.8	825.9
177.5°	834.2	833.7	831.7	829.8	831.7	833.7	834.2	831.5	827.8	825.9	826.8
180°	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	949.1	949.1	949.1	949.1	949.1
2.5°	937.4	942.0	944.7	948.2	957.2
5°	901.5	918.6	924.0	937.4	953.6
7.5°	822.5	874.6	889.0	921.3	946.4
10°	746.2	798.3	823.4	899.8	937.4
12.5°	707.6	738.1	755.2	862.0	924.9
15°	683.3	704.9	717.5	811.7	910.6
17.5°	664.5	679.7	688.7	762.4	890.7
20°	652.8	660.0	668.0	726.4	868.3
22.5°	644.7	640.3	646.5	701.3	837.8
25°	639.4	622.2	629.5	681.5	801.8
27.5°	643.8	606.1	608.9	663.6	764.2
30°	644.7	586.4	587.3	644.7	722.0
32.5°	638.5	565.7	566.6	621.4	674.4
35°	623.1	541.5	540.6	594.5	609.7
37.5°	602.5	515.4	515.4	564.8	538.8
40°	577.3	489.4	492.1	526.2	475.9
42.5°	546.8	461.6	465.1	475.1	429.3
45°	513.6	434.6	437.3	401.4	393.3
47.5°	476.8	406.8	407.7	333.1	381.6
50°	432.8	378.0	374.5	285.5	380.7
52.5°	394.2	346.6	335.8	258.6	345.7
55°	356.5	313.4	290.0	238.0	320.5
57.5°	323.3	270.3	247.9	213.7	315.2
60°	292.7	228.1	211.0	187.6	289.1
62.5°	267.6	196.6	193.1	169.7	262.2
65°	240.7	175.1	174.2	154.4	222.7
67.5°	214.6	160.8	159.9	140.1	169.7
70°	186.7	145.5	143.7	124.8	125.7
72.5°	158.1	128.4	126.6	112.2	104.2
75°	129.3	108.6	107.7	97.9	84.4
77.5°	101.5	86.2	88.0	79.0	61.9
80°	72.7	62.8	64.6	56.6	46.7
82.5°	48.5	41.3	43.1	35.9	31.4
85°	27.0	23.4	24.3	18.8	14.4
87.5°	12.6	10.8	10.8	7.1	4.5
90°	24.5	15.6	14.5	10.0	5.5
92.5°	151.1	107.5	98.0	60.2	22.3
95°	371.9	209.4	192.1	122.7	53.5
97.5°	500.8	230.0	214.8	153.6	92.5
100°	547.8	247.3	233.4	178.0	122.6
102.5°	569.4	264.6	251.6	199.9	148.2
105°	585.4	290.2	279.2	235.4	191.6
107.5°	588.3	328.0	317.9	277.0	236.1
110°	583.9	349.2	340.0	303.0	266.2



TEST NUMBER: P935039

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	584.0	374.8	366.1	330.9	295.7
115°	589.4	413.2	405.1	372.7	340.3
117.5°	600.3	450.5	443.2	413.7	384.3
120°	609.3	472.3	465.3	437.7	409.9
122.5°	622.1	497.9	490.9	462.9	435.0
125°	639.4	530.8	524.4	498.9	473.4
127.5°	656.6	562.5	556.1	530.3	504.6
130°	669.3	583.7	576.7	549.1	521.3
132.5°	679.5	600.9	593.9	566.3	538.5
135°	690.6	621.0	614.7	589.4	564.1
137.5°	707.3	646.6	640.4	615.3	590.3
140°	717.5	663.8	658.1	635.1	612.1
142.5°	726.1	676.7	671.3	650.1	628.8
145°	737.2	696.2	691.5	672.9	654.4
147.5°	753.5	720.6	716.1	698.0	680.0
150°	762.0	733.5	729.4	713.0	696.7
152.5°	767.7	741.9	738.7	726.4	714.0
155°	779.9	760.2	757.8	748.7	739.6
157.5°	792.1	778.5	776.3	767.5	758.5
160°	797.7	786.9	785.2	778.3	771.3
162.5°	803.6	795.9	794.5	789.3	784.2
165°	812.2	808.6	807.5	802.7	798.1
167.5°	818.8	815.9	815.3	813.1	810.9
170°	824.4	824.2	823.7	821.5	819.2
172.5°	824.8	824.8	824.7	824.2	823.7
175°	828.1	829.8	829.8	829.8	829.8
177.5°	828.5	829.8	829.8	829.8	829.8
180°	829.8	829.8	829.8	829.8	829.8



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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	8.93	9.64	10.03	10.74	12.26	11.75	12.47	12.86	13.57	15.08
	3H	9.39	10.04	10.51	11.14	12.67	13.09	13.73	14.20	14.83	16.36
	4H	9.58	10.19	10.70	11.29	12.83	13.52	14.13	14.64	15.24	16.77
	6H	9.69	10.25	10.82	11.36	12.91	13.80	14.36	14.93	15.47	17.02
	8H	9.69	10.22	10.82	11.35	12.89	13.87	14.40	15.00	15.53	17.07
	12H	9.65	10.16	10.79	11.28	12.84	13.90	14.40	15.04	15.52	17.09
4H	2H	9.94	10.55	11.07	11.66	13.19	12.14	12.75	13.27	13.86	15.40
	3H	10.96	11.46	12.09	12.60	14.15	13.63	14.14	14.77	15.28	16.82
	4H	11.23	11.69	12.36	12.81	14.38	14.16	14.62	15.29	15.74	17.31
	6H	11.34	11.74	12.49	12.89	14.45	14.51	14.91	15.65	16.06	17.62
	8H	11.34	11.72	12.49	12.85	14.43	14.61	14.99	15.76	16.12	17.70
	12H	11.30	11.64	12.46	12.79	14.37	14.66	15.00	15.82	16.15	17.73
8H	4H	11.67	12.04	12.81	13.18	14.75	14.27	14.64	15.41	15.78	17.36
	6H	11.92	12.23	13.09	13.41	14.98	14.70	15.00	15.86	16.18	17.76
	8H	11.96	12.23	13.13	13.39	14.98	14.85	15.12	16.02	16.27	17.87
	12H	11.94	12.18	13.11	13.33	14.96	14.94	15.17	16.11	16.33	17.96
12H	4H	11.66	12.00	12.82	13.15	14.73	14.23	14.56	15.39	15.71	17.29
	6H	11.98	12.25	13.15	13.41	15.00	14.69	14.96	15.86	16.12	17.71
	8H	12.04	12.28	13.21	13.43	15.06	14.85	15.08	16.02	16.24	17.87