

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: P935758

Luminaire Tested: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935758
REPORT IS A COMBINATION OF REPORTS P933766 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

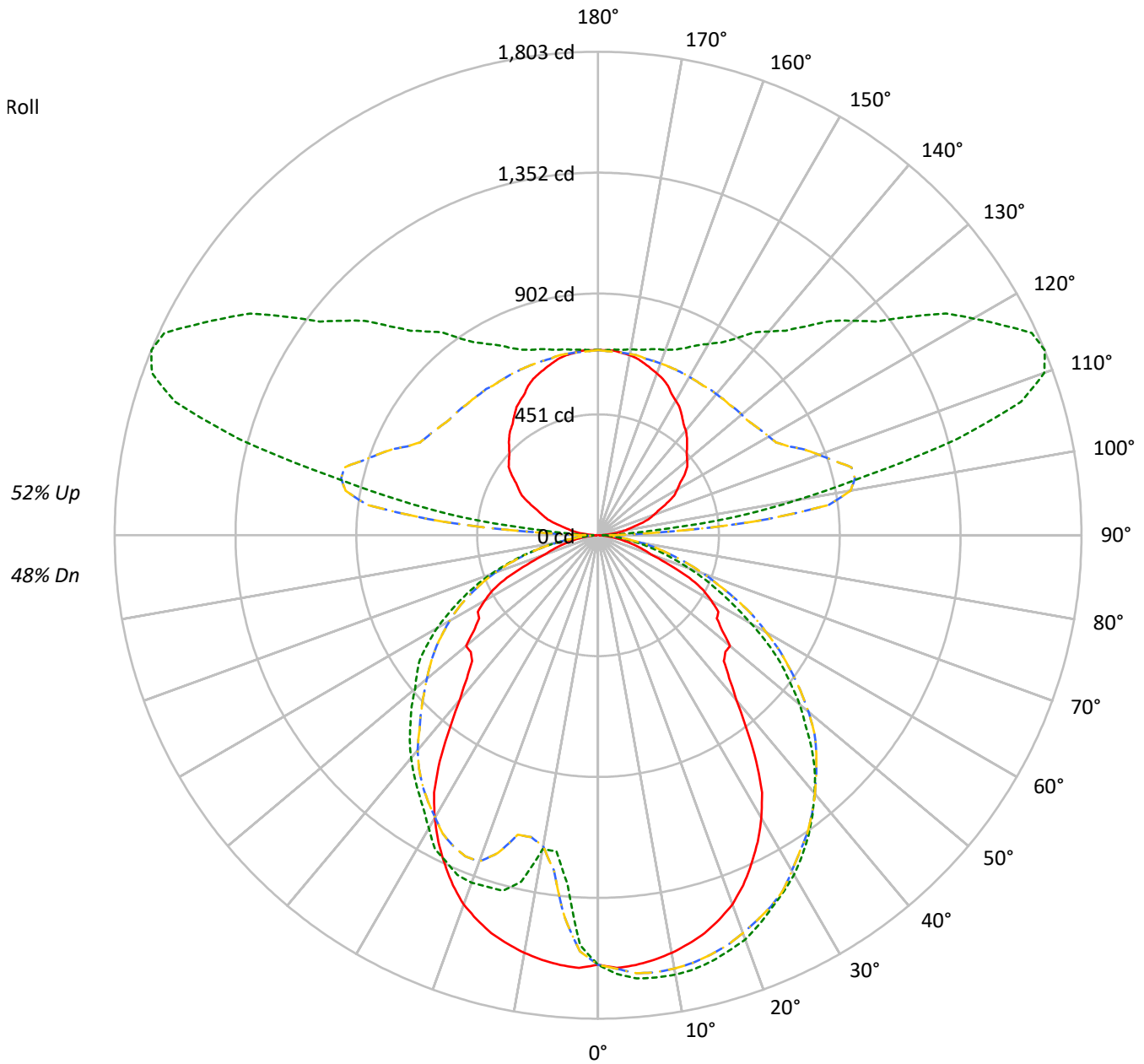
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8632.6 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.2
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: P935758
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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	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	34	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	63	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	31	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	24	19	16	20	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14861	14861	14861	14861
5°	14956	15001	14956	11796
10°	14839	14778	14839	10565
15°	14661	14457	14661	12072
20°	14338	14078	14338	12097
25°	13693	13524	13693	11840
30°	12867	13065	12867	11278
35°	11454	12484	11454	10659
40°	9527	11800	9527	10192
45°	8496	11000	8496	9655
50°	9005	10045	9005	9115
55°	8449	9016	8449	8803
60°	8679	7658	8679	8064
65°	7831	6331	7831	7076
70°	5385	5046	5385	5931
75°	4670	3730	4670	4466
80°	3688	2466	3688	2683
85°	2012	1306	2012	1110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13047 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	1.7
10°-20°	410.5	4.8
20°-30°	634.5	7.4
30°-40°	757.5	8.8
40°-50°	761.9	8.8
50°-60°	662.9	7.7
60°-70°	470.0	5.4
70°-80°	248.7	2.9
80°-90°	64.6	0.7
90°-100°	336.7	3.9
100°-110°	885.2	10.3
110°-120°	917.8	10.6
120°-130°	736.2	8.5
130°-140°	577.7	6.7
140°-150°	443.4	5.1
150°-160°	319.3	3.7
160°-170°	195.4	2.3
170°-180°	66.0	0.8
0°-30°	1189.5	13.8
0°-40°	1947.0	22.6
0°-60°	3371.8	39.1
0°-90°	4155.1	48.1
90°-120°	2139.6	24.8
90°-150°	3896.9	45.1
90°-180°	4478.0	51.9
0°-180°	8632.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1602	1602	1602	1602	1602	
5°	1609	1659	1609	1305	1609	153
15°	1536	1644	1536	1373	1536	432
25°	1353	1533	1353	1342	1353	621
35°	1029	1368	1029	1168	1029	636
45°	664	1127	664	989	664	532
55°	541	832	541	812	541	497
65°	376	502	376	561	376	359
75°	142	238	142	285	142	150
85°	24	61	24	52	24	33
90°	5	18	5	18	5	5
95°	44	204	44	204	44	49
105°	160	1386	160	1386	160	169
115°	283	1785	283	1785	283	280
125°	394	1421	394	1421	394	350
135°	470	1103	470	1103	470	363
145°	545	895	545	895	545	341
155°	616	770	616	770	616	283
165°	664	718	664	718	664	187
175°	691	695	691	695	691	66
180°	691	691	691	691	691	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5
2.5°	1615.1	1615.1	1624.3	1627.3	1627.3	1622.8	1618.2	1622.8	1636.4	1640.9	1639.4
5°	1609.1	1621.2	1637.9	1640.9	1644.0	1642.4	1639.4	1642.4	1657.6	1660.6	1662.1
7.5°	1597.0	1619.7	1640.9	1645.5	1650.0	1645.5	1644.0	1647.0	1662.1	1665.2	1665.2
10°	1581.8	1613.6	1637.9	1640.9	1645.5	1640.9	1640.9	1647.0	1662.1	1665.2	1666.7
12.5°	1560.6	1604.6	1627.3	1630.3	1636.4	1634.8	1633.3	1639.4	1654.5	1657.6	1657.6
15°	1536.4	1587.9	1609.1	1612.1	1622.8	1619.7	1619.7	1625.8	1642.4	1647.0	1645.5
17.5°	1503.0	1566.7	1590.9	1595.4	1603.1	1601.5	1603.1	1609.1	1624.3	1627.3	1628.8
20°	1465.2	1537.9	1566.7	1571.2	1578.8	1578.8	1578.8	1586.4	1601.5	1607.6	1607.6
22.5°	1413.6	1507.6	1537.9	1540.9	1550.0	1550.0	1553.0	1563.7	1577.3	1578.8	1578.8
25°	1353.0	1474.2	1500.0	1509.1	1518.2	1522.7	1527.3	1533.3	1537.9	1536.4	1537.9
27.5°	1289.4	1431.8	1465.2	1471.2	1483.4	1487.9	1493.9	1495.4	1497.0	1501.5	1498.5
30°	1218.2	1372.7	1422.7	1428.8	1448.5	1451.5	1445.5	1448.5	1456.0	1459.1	1462.1
32.5°	1137.9	1284.9	1378.8	1392.4	1410.7	1401.5	1400.0	1404.6	1416.7	1416.7	1419.7
35°	1028.8	1216.6	1337.9	1350.0	1363.6	1353.0	1359.1	1360.6	1368.2	1372.7	1371.3
37.5°	909.1	1157.5	1295.4	1304.6	1315.1	1301.5	1310.6	1315.1	1321.2	1318.2	1318.2
40°	803.0	1065.2	1245.5	1251.6	1260.6	1250.0	1259.1	1262.1	1265.2	1262.1	1260.6
42.5°	724.2	963.6	1192.5	1200.0	1193.9	1201.5	1204.6	1210.6	1206.1	1200.0	1200.0
45°	663.6	936.4	1134.8	1143.9	1134.8	1147.0	1151.6	1151.6	1137.9	1134.8	1133.4
47.5°	643.9	881.8	1077.2	1077.2	1072.8	1087.9	1095.4	1084.8	1071.2	1066.7	1066.7
50°	642.4	821.2	998.5	992.5	1013.7	1031.8	1024.2	1013.7	1003.0	986.4	986.4
52.5°	583.3	747.0	897.0	919.7	953.1	963.6	951.5	940.9	922.7	915.2	909.1
55°	540.9	669.7	804.5	850.0	884.8	898.4	875.8	865.1	837.9	833.4	830.3
57.5°	531.8	557.6	719.7	777.3	819.7	818.2	804.5	784.8	762.1	757.6	756.1
60°	487.9	403.1	628.8	697.0	740.9	736.4	724.2	706.0	684.8	681.8	678.8
62.5°	442.5	292.4	525.7	603.0	665.1	663.6	653.0	625.7	610.6	603.0	597.0
65°	375.8	245.5	374.2	501.6	590.9	593.9	571.2	551.5	534.9	525.7	524.2
67.5°	286.3	200.0	253.0	418.2	519.7	516.7	487.9	478.8	457.6	453.0	444.0
70°	212.1	133.3	175.7	339.4	450.0	442.5	419.7	409.1	389.4	378.8	372.7
72.5°	175.7	107.6	128.7	263.7	378.8	369.7	350.0	337.9	321.2	312.1	306.0
75°	142.4	113.6	98.5	195.4	307.5	301.5	283.4	271.2	257.6	245.5	246.9
77.5°	104.6	106.1	78.8	144.0	244.0	234.8	224.3	209.1	203.1	190.9	190.9
80°	78.8	83.4	59.1	98.5	175.7	175.7	166.7	156.1	145.5	139.4	139.4
82.5°	53.0	53.0	44.0	62.1	119.7	115.1	109.0	106.1	100.0	97.0	97.0
85°	24.3	30.3	27.3	37.9	65.2	68.2	68.2	65.2	63.7	60.6	62.1
87.5°	7.6	13.6	16.7	21.2	33.3	34.8	36.3	36.3	36.3	37.9	37.9
90°	4.7	8.3	12.1	13.0	20.4	30.3	35.2	31.2	23.5	17.6	17.6
92.5°	18.5	50.0	81.6	89.4	125.8	174.2	198.4	173.9	124.9	88.1	84.6
95°	44.5	102.2	159.9	174.3	309.5	489.7	579.9	517.5	392.7	299.0	288.4
97.5°	76.9	127.8	178.7	191.4	416.9	717.4	867.7	828.3	749.4	690.2	670.1
100°	102.0	148.2	194.3	205.8	456.0	789.5	956.3	959.1	965.0	969.3	945.2
102.5°	123.3	166.3	209.4	220.2	473.9	812.2	981.4	1031.7	1132.2	1207.6	1187.0
105°	159.5	196.0	232.4	241.6	487.2	814.8	978.6	1091.3	1316.6	1485.7	1474.6
107.5°	196.5	230.5	264.6	273.1	489.7	778.6	923.0	1080.2	1394.5	1630.3	1633.0
110°	221.6	252.3	282.9	290.6	486.0	746.4	876.6	1052.3	1403.8	1667.4	1679.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	246.1	275.4	304.6	311.9	486.1	718.3	834.4	1014.3	1374.0	1643.8	1661.5
115°	283.2	310.2	337.3	344.0	490.6	686.1	783.8	957.1	1303.7	1563.6	1588.1
117.5°	319.9	344.4	369.0	375.0	499.8	666.0	749.1	905.4	1218.2	1452.7	1480.0
120°	341.2	364.3	387.4	393.1	507.2	659.2	735.2	878.1	1163.8	1378.2	1404.7
122.5°	362.1	385.3	408.6	414.4	517.8	655.6	724.6	853.2	1110.5	1303.5	1329.6
125°	394.0	415.2	436.5	441.7	532.2	652.7	712.9	822.3	1040.8	1204.7	1228.8
127.5°	420.0	441.4	462.8	468.2	546.5	651.0	703.2	797.0	984.8	1125.5	1145.8
130°	433.9	457.0	480.1	485.8	557.1	652.1	699.5	783.0	950.1	1075.4	1094.2
132.5°	448.3	471.4	494.5	500.2	565.6	652.7	696.3	771.0	920.6	1032.8	1049.6
135°	469.6	490.6	511.6	516.9	574.8	652.1	690.7	753.4	878.7	972.6	987.1
137.5°	491.3	512.1	533.0	538.2	588.7	656.1	689.7	742.7	848.6	928.0	939.8
140°	509.4	528.6	547.8	552.6	597.3	656.8	686.5	732.3	823.8	892.4	903.5
142.5°	523.3	541.0	558.8	563.2	604.3	659.1	686.5	726.7	807.0	867.3	876.8
145°	544.7	560.1	575.6	579.4	613.6	659.1	681.9	714.7	780.4	829.8	837.0
147.5°	566.0	581.1	596.1	599.9	627.2	663.6	681.9	707.7	759.5	798.3	804.3
150°	579.9	593.5	607.1	610.5	634.3	666.0	681.9	703.7	747.4	780.2	785.0
152.5°	594.3	604.6	614.9	617.5	639.0	667.5	681.9	700.5	737.8	765.8	769.4
155°	615.6	623.2	630.8	632.7	649.1	670.9	681.9	696.7	726.4	748.7	751.1
157.5°	631.4	638.8	646.1	648.0	659.3	674.3	681.9	693.4	716.5	733.8	735.5
160°	642.0	647.8	653.6	655.0	664.0	675.9	681.9	691.7	711.5	726.4	727.4
162.5°	652.7	657.0	661.4	662.4	668.9	677.6	681.9	690.2	706.9	719.5	720.4
165°	664.2	668.2	672.1	673.1	676.1	679.9	681.9	687.9	699.8	708.7	709.7
167.5°	675.0	676.8	678.6	679.1	681.6	684.9	686.5	690.5	698.3	704.2	704.6
170°	681.9	683.7	685.6	686.1	686.3	686.4	686.5	690.5	698.3	704.2	704.2
172.5°	685.6	686.0	686.4	686.5	686.5	686.5	686.5	689.6	695.7	700.4	700.0
175°	690.7	690.7	690.7	690.7	689.3	687.4	686.5	688.5	692.3	695.3	695.3
177.5°	690.7	690.7	690.7	690.7	689.7	688.1	687.4	688.9	692.1	694.4	694.0
180°	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5
2.5°	1642.4	1637.9	1642.4	1639.4	1640.9	1636.4	1622.8	1618.2	1622.8	1627.3	1627.3
5°	1662.1	1659.1	1662.1	1662.1	1660.6	1657.6	1642.4	1639.4	1642.4	1644.0	1640.9
7.5°	1668.1	1663.7	1668.1	1665.2	1665.2	1662.1	1647.0	1644.0	1645.5	1650.0	1645.5
10°	1668.1	1663.7	1668.1	1666.7	1665.2	1662.1	1647.0	1640.9	1640.9	1645.5	1640.9
12.5°	1660.6	1657.6	1660.6	1657.6	1657.6	1654.5	1639.4	1633.3	1634.8	1636.4	1630.3
15°	1648.4	1644.0	1648.4	1645.5	1647.0	1642.4	1625.8	1619.7	1619.7	1622.8	1612.1
17.5°	1630.3	1624.3	1630.3	1628.8	1627.3	1624.3	1609.1	1603.1	1601.5	1603.1	1595.4
20°	1609.1	1604.6	1609.1	1607.6	1607.6	1601.5	1586.4	1578.8	1578.8	1578.8	1571.2
22.5°	1575.7	1571.2	1575.7	1578.8	1578.8	1577.3	1563.7	1553.0	1550.0	1550.0	1540.9
25°	1537.9	1533.3	1537.9	1537.9	1536.4	1537.9	1533.3	1527.3	1522.7	1518.2	1509.1
27.5°	1501.5	1498.5	1501.5	1498.5	1501.5	1497.0	1495.4	1493.9	1487.9	1483.4	1471.2
30°	1465.2	1462.1	1465.2	1462.1	1459.1	1456.0	1448.5	1445.5	1451.5	1448.5	1428.8
32.5°	1419.7	1416.7	1419.7	1419.7	1416.7	1416.7	1404.6	1400.0	1401.5	1410.7	1392.4
35°	1372.7	1368.2	1372.7	1371.3	1372.7	1368.2	1360.6	1359.1	1353.0	1363.6	1350.0
37.5°	1318.2	1313.6	1318.2	1318.2	1318.2	1321.2	1315.1	1310.6	1301.5	1315.1	1304.6
40°	1262.1	1256.0	1262.1	1260.6	1262.1	1265.2	1262.1	1259.1	1250.0	1260.6	1251.6
42.5°	1198.5	1196.9	1198.5	1200.0	1200.0	1206.1	1210.6	1204.6	1201.5	1193.9	1200.0
45°	1130.3	1127.3	1130.3	1133.4	1134.8	1137.9	1151.6	1151.6	1147.0	1134.8	1143.9
47.5°	1057.5	1050.0	1057.5	1066.7	1066.7	1071.2	1084.8	1095.4	1087.9	1072.8	1077.2
50°	980.3	981.8	980.3	986.4	986.4	1003.0	1013.7	1024.2	1031.8	1013.7	992.5
52.5°	904.5	903.0	904.5	909.1	915.2	922.7	940.9	951.5	963.6	953.1	919.7
55°	828.8	831.8	828.8	830.3	833.4	837.9	865.1	875.8	898.4	884.8	850.0
57.5°	753.0	748.5	753.0	756.1	757.6	762.1	784.8	804.5	818.2	819.7	777.3
60°	665.1	659.1	665.1	678.8	681.8	684.8	706.0	724.2	736.4	740.9	697.0
62.5°	587.9	577.3	587.9	597.0	603.0	610.6	625.7	653.0	663.6	665.1	603.0
65°	506.0	501.6	506.0	524.2	525.7	534.9	551.5	571.2	593.9	590.9	501.6
67.5°	431.8	431.8	431.8	444.0	453.0	457.6	478.8	487.9	516.7	519.7	418.2
70°	363.7	362.2	363.7	372.7	378.8	389.4	409.1	419.7	442.5	450.0	339.4
72.5°	298.5	297.0	298.5	306.0	312.1	321.2	337.9	350.0	369.7	378.8	263.7
75°	240.9	237.9	240.9	246.9	245.5	257.6	271.2	283.4	301.5	307.5	195.4
77.5°	184.9	184.9	184.9	190.9	190.9	203.1	209.1	224.3	234.8	244.0	144.0
80°	137.9	136.4	137.9	139.4	139.4	145.5	156.1	166.7	175.7	175.7	98.5
82.5°	97.0	93.9	97.0	97.0	97.0	100.0	106.1	109.0	115.1	119.7	62.1
85°	60.6	60.6	60.6	62.1	60.6	63.7	65.2	68.2	68.2	65.2	37.9
87.5°	39.4	37.9	39.4	37.9	37.9	36.3	36.3	36.3	34.8	33.3	21.2
90°	17.6	17.6	17.6	17.6	17.6	23.5	31.2	35.2	30.3	20.4	13.0
92.5°	70.6	56.6	70.6	84.6	88.1	124.9	173.9	198.4	174.2	125.8	89.4
95°	245.9	203.5	245.9	288.4	299.0	392.7	517.5	579.9	489.7	309.5	174.3
97.5°	589.3	508.5	589.3	670.1	690.2	749.4	828.3	867.7	717.4	416.9	191.4
100°	849.0	752.8	849.0	945.2	969.3	965.0	959.1	956.3	789.5	456.0	205.8
102.5°	1104.5	1022.2	1104.5	1187.0	1207.6	1132.2	1031.7	981.4	812.2	473.9	220.2
105°	1430.4	1386.0	1430.4	1474.6	1485.7	1316.6	1091.3	978.6	814.8	487.2	241.6
107.5°	1643.7	1654.4	1643.7	1633.0	1630.3	1394.5	1080.2	923.0	778.6	489.7	273.1
110°	1725.1	1771.2	1725.1	1679.0	1667.4	1403.8	1052.3	876.6	746.4	486.0	290.6



TEST NUMBER: P935758

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1732.3	1803.2	1732.3	1661.5	1643.8	1374.0	1014.3	834.4	718.3	486.1	311.9
115°	1686.4	1784.7	1686.4	1588.1	1563.6	1303.7	957.1	783.8	686.1	490.6	344.0
117.5°	1589.0	1698.0	1589.0	1480.0	1452.7	1218.2	905.4	749.1	666.0	499.8	375.0
120°	1510.5	1616.4	1510.5	1404.7	1378.2	1163.8	878.1	735.2	659.2	507.2	393.1
122.5°	1434.0	1538.5	1434.0	1329.6	1303.5	1110.5	853.2	724.6	655.6	517.8	414.4
125°	1325.0	1421.2	1325.0	1228.8	1204.7	1040.8	822.3	712.9	652.7	532.2	441.7
127.5°	1226.9	1308.1	1226.9	1145.8	1125.5	984.8	797.0	703.2	651.0	546.5	468.2
130°	1169.2	1244.2	1169.2	1094.2	1075.4	950.1	783.0	699.5	652.1	557.1	485.8
132.5°	1116.7	1183.9	1116.7	1049.6	1032.8	920.6	771.0	696.3	652.7	565.6	500.2
135°	1044.9	1102.8	1044.9	987.1	972.6	878.7	753.4	690.7	652.1	574.8	516.9
137.5°	987.3	1034.6	987.3	939.8	928.0	848.6	742.7	689.7	656.1	588.7	538.2
140°	947.7	992.0	947.7	903.5	892.4	823.8	732.3	686.5	656.8	597.3	552.6
142.5°	914.9	953.1	914.9	876.8	867.3	807.0	726.7	686.5	659.1	604.3	563.2
145°	865.9	894.7	865.9	837.0	829.8	780.4	714.7	681.9	659.1	613.6	579.4
147.5°	828.1	852.0	828.1	804.3	798.3	759.5	707.7	681.9	663.6	627.2	599.9
150°	804.4	823.8	804.4	785.0	780.2	747.4	703.7	681.9	666.0	634.3	610.5
152.5°	784.0	798.7	784.0	769.4	765.8	737.8	700.5	681.9	667.5	639.0	617.5
155°	760.7	770.4	760.7	751.1	748.7	726.4	696.7	681.9	670.9	649.1	632.7
157.5°	742.3	749.1	742.3	735.5	733.8	716.5	693.4	681.9	674.3	659.3	648.0
160°	731.3	735.2	731.3	727.4	726.4	711.5	691.7	681.9	675.9	664.0	655.0
162.5°	724.1	727.8	724.1	720.4	719.5	706.9	690.2	681.9	677.6	668.9	662.4
165°	713.7	717.6	713.7	709.7	708.7	699.8	687.9	681.9	679.9	676.1	673.1
167.5°	706.2	707.8	706.2	704.6	704.2	698.3	690.5	686.5	684.9	681.6	679.1
170°	704.2	704.2	704.2	704.2	704.2	698.3	690.5	686.5	686.4	686.3	686.1
172.5°	698.6	697.2	698.6	700.0	700.4	695.7	689.6	686.5	686.5	686.5	686.5
175°	695.3	695.3	695.3	695.3	695.3	692.3	688.5	686.5	687.4	689.3	690.7
177.5°	692.3	690.7	692.3	694.0	694.4	692.1	688.9	687.4	688.1	689.7	690.7
180°	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7



TEST NUMBER: P935758

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5
2.5°	1624.3	1615.1	1615.1	1600.0	1593.9	1589.4	1581.8	1559.1	1553.0	1547.0	1556.1
5°	1637.9	1621.2	1609.1	1581.8	1559.1	1550.0	1521.2	1466.7	1430.4	1403.0	1387.9
7.5°	1640.9	1619.7	1597.0	1554.5	1500.0	1475.7	1387.9	1287.9	1260.6	1236.3	1221.2
10°	1637.9	1613.6	1581.8	1518.2	1389.4	1347.0	1259.1	1193.9	1177.2	1172.8	1177.2
12.5°	1627.3	1604.6	1560.6	1454.5	1274.2	1245.5	1193.9	1156.0	1153.1	1160.6	1201.5
15°	1609.1	1587.9	1536.4	1369.7	1210.6	1189.4	1153.1	1139.4	1156.0	1209.1	1331.9
17.5°	1590.9	1566.7	1503.0	1286.4	1162.1	1147.0	1121.2	1148.5	1242.4	1313.6	1354.5
20°	1566.7	1537.9	1465.2	1225.8	1127.3	1113.7	1101.5	1224.2	1295.4	1321.2	1344.0
22.5°	1537.9	1507.6	1413.6	1183.3	1090.9	1080.3	1087.9	1266.7	1295.4	1313.6	1333.3
25°	1500.0	1474.2	1353.0	1150.0	1062.1	1050.0	1078.8	1262.1	1278.8	1283.3	1322.7
27.5°	1465.2	1431.8	1289.4	1119.7	1027.3	1022.7	1086.4	1242.4	1254.5	1259.1	1301.5
30°	1422.7	1372.7	1218.2	1087.9	990.9	989.4	1087.9	1218.2	1215.1	1227.3	1269.7
32.5°	1378.8	1284.9	1137.9	1048.5	956.1	954.6	1077.2	1181.8	1178.8	1195.4	1227.3
35°	1337.9	1216.6	1028.8	1003.0	912.1	913.7	1051.5	1139.4	1140.9	1156.0	1175.7
37.5°	1295.4	1157.5	909.1	953.1	869.7	869.7	1016.6	1100.0	1096.9	1101.5	1128.8
40°	1245.5	1065.2	803.0	887.9	830.3	825.7	974.3	1057.5	1047.0	1045.5	1083.3
42.5°	1192.5	963.6	724.2	801.5	784.8	778.8	922.7	1006.1	986.4	990.9	1039.4
45°	1134.8	936.4	663.6	677.3	737.9	733.4	866.7	947.0	933.4	945.4	995.5
47.5°	1077.2	881.8	643.9	562.2	687.9	686.3	804.5	889.4	881.8	894.0	947.0
50°	998.5	821.2	642.4	481.9	631.8	637.9	730.3	833.4	833.4	843.9	900.0
52.5°	897.0	747.0	583.3	436.4	566.6	584.8	665.1	784.8	787.9	798.5	848.5
55°	804.5	669.7	540.9	401.5	489.4	528.8	601.6	734.9	740.9	751.5	797.0
57.5°	719.7	557.6	531.8	360.6	418.2	456.1	545.4	686.3	689.4	698.5	742.4
60°	628.8	403.1	487.9	316.7	356.1	384.8	493.9	628.8	639.4	645.4	683.3
62.5°	525.7	292.4	442.5	286.3	325.7	331.8	451.5	574.3	587.9	592.4	615.2
65°	374.2	245.5	375.8	260.6	293.9	295.5	406.0	518.2	530.3	537.9	554.6
67.5°	253.0	200.0	286.3	236.4	269.7	271.2	362.2	453.0	469.7	475.8	486.3
70°	175.7	133.3	212.1	210.6	242.5	245.5	315.1	393.9	409.1	413.6	419.7
72.5°	128.7	107.6	175.7	189.4	213.6	216.7	266.6	327.2	342.5	346.9	350.0
75°	98.5	113.6	142.4	165.2	181.8	183.4	218.2	266.6	277.3	280.3	281.8
77.5°	78.8	106.1	104.6	133.3	148.4	145.5	171.2	206.1	215.1	215.1	215.1
80°	59.1	83.4	78.8	95.4	109.0	106.1	122.7	147.0	150.0	153.0	151.5
82.5°	44.0	53.0	53.0	60.6	72.7	69.7	81.8	95.4	95.4	95.4	98.5
85°	27.3	30.3	24.3	31.8	40.9	39.4	45.5	51.5	53.0	53.0	50.0
87.5°	16.7	13.6	7.6	12.1	18.2	18.2	21.2	22.7	21.2	21.2	21.2
90°	12.1	8.3	4.7	8.3	12.1	13.0	20.4	30.3	35.2	31.2	23.5
92.5°	81.6	50.0	18.5	50.0	81.6	89.4	125.8	174.2	198.4	173.9	124.9
95°	159.9	102.2	44.5	102.2	159.9	174.3	309.5	489.7	579.9	517.5	392.7
97.5°	178.7	127.8	76.9	127.8	178.7	191.4	416.9	717.4	867.7	828.3	749.4
100°	194.3	148.2	102.0	148.2	194.3	205.8	456.0	789.5	956.3	959.1	965.0
102.5°	209.4	166.3	123.3	166.3	209.4	220.2	473.9	812.2	981.4	1031.7	1132.2
105°	232.4	196.0	159.5	196.0	232.4	241.6	487.2	814.8	978.6	1091.3	1316.6
107.5°	264.6	230.5	196.5	230.5	264.6	273.1	489.7	778.6	923.0	1080.2	1394.5
110°	282.9	252.3	221.6	252.3	282.9	290.6	486.0	746.4	876.6	1052.3	1403.8



TEST NUMBER: P935758

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	304.6	275.4	246.1	275.4	304.6	311.9	486.1	718.3	834.4	1014.3	1374.0
115°	337.3	310.2	283.2	310.2	337.3	344.0	490.6	686.1	783.8	957.1	1303.7
117.5°	369.0	344.4	319.9	344.4	369.0	375.0	499.8	666.0	749.1	905.4	1218.2
120°	387.4	364.3	341.2	364.3	387.4	393.1	507.2	659.2	735.2	878.1	1163.8
122.5°	408.6	385.3	362.1	385.3	408.6	414.4	517.8	655.6	724.6	853.2	1110.5
125°	436.5	415.2	394.0	415.2	436.5	441.7	532.2	652.7	712.9	822.3	1040.8
127.5°	462.8	441.4	420.0	441.4	462.8	468.2	546.5	651.0	703.2	797.0	984.8
130°	480.1	457.0	433.9	457.0	480.1	485.8	557.1	652.1	699.5	783.0	950.1
132.5°	494.5	471.4	448.3	471.4	494.5	500.2	565.6	652.7	696.3	771.0	920.6
135°	511.6	490.6	469.6	490.6	511.6	516.9	574.8	652.1	690.7	753.4	878.7
137.5°	533.0	512.1	491.3	512.1	533.0	538.2	588.7	656.1	689.7	742.7	848.6
140°	547.8	528.6	509.4	528.6	547.8	552.6	597.3	656.8	686.5	732.3	823.8
142.5°	558.8	541.0	523.3	541.0	558.8	563.2	604.3	659.1	686.5	726.7	807.0
145°	575.6	560.1	544.7	560.1	575.6	579.4	613.6	659.1	681.9	714.7	780.4
147.5°	596.1	581.1	566.0	581.1	596.1	599.9	627.2	663.6	681.9	707.7	759.5
150°	607.1	593.5	579.9	593.5	607.1	610.5	634.3	666.0	681.9	703.7	747.4
152.5°	614.9	604.6	594.3	604.6	614.9	617.5	639.0	667.5	681.9	700.5	737.8
155°	630.8	623.2	615.6	623.2	630.8	632.7	649.1	670.9	681.9	696.7	726.4
157.5°	646.1	638.8	631.4	638.8	646.1	648.0	659.3	674.3	681.9	693.4	716.5
160°	653.6	647.8	642.0	647.8	653.6	655.0	664.0	675.9	681.9	691.7	711.5
162.5°	661.4	657.0	652.7	657.0	661.4	662.4	668.9	677.6	681.9	690.2	706.9
165°	672.1	668.2	664.2	668.2	672.1	673.1	676.1	679.9	681.9	687.9	699.8
167.5°	678.6	676.8	675.0	676.8	678.6	679.1	681.6	684.9	686.5	690.5	698.3
170°	685.6	683.7	681.9	683.7	685.6	686.1	686.3	686.4	686.5	690.5	698.3
172.5°	686.4	686.0	685.6	686.0	686.4	686.5	686.5	686.5	686.5	689.6	695.7
175°	690.7	690.7	690.7	690.7	690.7	690.7	689.3	687.4	686.5	688.5	692.3
177.5°	690.7	690.7	690.7	690.7	690.7	690.7	689.7	688.1	687.4	688.9	692.1
180°	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7



TEST NUMBER: P935758

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5	1601.5
2.5°	1545.5	1540.9	1547.0	1530.3	1547.0	1540.9	1545.5	1556.1	1547.0	1553.0	1559.1
5°	1356.0	1348.5	1324.3	1304.6	1324.3	1348.5	1356.0	1387.9	1403.0	1430.4	1466.7
7.5°	1212.2	1206.1	1200.0	1187.9	1200.0	1206.1	1212.2	1221.2	1236.3	1260.6	1287.9
10°	1180.3	1181.8	1190.9	1189.4	1190.9	1181.8	1180.3	1177.2	1172.8	1177.2	1193.9
12.5°	1262.1	1275.7	1325.8	1322.7	1325.8	1275.7	1262.1	1201.5	1160.6	1153.1	1156.0
15°	1356.0	1360.6	1371.3	1372.7	1371.3	1360.6	1356.0	1331.9	1209.1	1156.0	1139.4
17.5°	1365.2	1366.7	1374.2	1374.2	1374.2	1366.7	1365.2	1354.5	1313.6	1242.4	1148.5
20°	1357.6	1360.6	1375.7	1378.8	1375.7	1360.6	1357.6	1344.0	1321.2	1295.4	1224.2
22.5°	1354.5	1360.6	1372.7	1371.3	1372.7	1360.6	1354.5	1333.3	1313.6	1295.4	1266.7
25°	1339.4	1339.4	1340.9	1342.4	1340.9	1339.4	1339.4	1322.7	1283.3	1278.8	1262.1
27.5°	1307.6	1310.6	1319.7	1318.2	1319.7	1310.6	1307.6	1301.5	1259.1	1254.5	1242.4
30°	1278.8	1275.7	1268.2	1262.1	1268.2	1275.7	1278.8	1269.7	1227.3	1215.1	1218.2
32.5°	1230.3	1222.7	1215.1	1210.6	1215.1	1222.7	1230.3	1227.3	1195.4	1178.8	1181.8
35°	1172.8	1174.2	1172.8	1168.2	1172.8	1174.2	1172.8	1175.7	1156.0	1140.9	1139.4
37.5°	1131.9	1134.8	1133.4	1127.3	1133.4	1134.8	1131.9	1128.8	1101.5	1096.9	1100.0
40°	1089.4	1090.9	1089.4	1084.8	1089.4	1090.9	1089.4	1083.3	1045.5	1047.0	1057.5
42.5°	1048.5	1047.0	1042.4	1039.4	1042.4	1047.0	1048.5	1039.4	990.9	986.4	1006.1
45°	1001.5	1003.0	994.0	989.4	994.0	1003.0	1001.5	995.5	945.4	933.4	947.0
47.5°	954.6	954.6	947.0	942.4	947.0	954.6	954.6	947.0	894.0	881.8	889.4
50°	904.5	903.0	892.4	890.9	892.4	903.0	904.5	900.0	843.9	833.4	833.4
52.5°	847.0	847.0	848.5	851.5	848.5	847.0	847.0	848.5	798.5	787.9	784.8
55°	797.0	798.5	809.1	812.1	809.1	798.5	797.0	797.0	751.5	740.9	734.9
57.5°	745.4	745.4	753.0	753.0	753.0	745.4	745.4	742.4	698.5	689.4	686.3
60°	686.3	689.4	695.5	694.0	695.5	689.4	686.3	683.3	645.4	639.4	628.8
62.5°	624.2	627.3	628.8	625.7	628.8	627.3	624.2	615.2	592.4	587.9	574.3
65°	559.1	562.2	563.6	560.6	563.6	562.2	559.1	554.6	537.9	530.3	518.2
67.5°	492.4	490.9	489.4	495.5	489.4	490.9	492.4	486.3	475.8	469.7	453.0
70°	424.2	424.2	422.8	425.7	422.8	424.2	424.2	419.7	413.6	409.1	393.9
72.5°	351.5	350.0	356.1	351.5	356.1	350.0	351.5	350.0	346.9	342.5	327.2
75°	280.3	283.4	280.3	284.9	280.3	283.4	280.3	281.8	280.3	277.3	266.6
77.5°	213.6	216.7	213.6	213.6	213.6	216.7	213.6	215.1	215.1	215.1	206.1
80°	151.5	150.0	150.0	148.4	150.0	150.0	151.5	151.5	153.0	150.0	147.0
82.5°	97.0	95.4	95.4	98.5	95.4	95.4	97.0	98.5	95.4	95.4	95.4
85°	53.0	54.5	51.5	51.5	51.5	54.5	53.0	50.0	53.0	53.0	51.5
87.5°	19.7	18.2	18.2	18.2	18.2	18.2	19.7	21.2	21.2	21.2	22.7
90°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23.5	31.2	35.2	30.3
92.5°	88.1	84.6	70.6	56.6	70.6	84.6	88.1	124.9	173.9	198.4	174.2
95°	299.0	288.4	245.9	203.5	245.9	288.4	299.0	392.7	517.5	579.9	489.7
97.5°	690.2	670.1	589.3	508.5	589.3	670.1	690.2	749.4	828.3	867.7	717.4
100°	969.3	945.2	849.0	752.8	849.0	945.2	969.3	965.0	959.1	956.3	789.5
102.5°	1207.6	1187.0	1104.5	1022.2	1104.5	1187.0	1207.6	1132.2	1031.7	981.4	812.2
105°	1485.7	1474.6	1430.4	1386.0	1430.4	1474.6	1485.7	1316.6	1091.3	978.6	814.8
107.5°	1630.3	1633.0	1643.7	1654.4	1643.7	1633.0	1630.3	1394.5	1080.2	923.0	778.6
110°	1667.4	1679.0	1725.1	1771.2	1725.1	1679.0	1667.4	1403.8	1052.3	876.6	746.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1643.8	1661.5	1732.3	1803.2	1732.3	1661.5	1643.8	1374.0	1014.3	834.4	718.3
115°	1563.6	1588.1	1686.4	1784.7	1686.4	1588.1	1563.6	1303.7	957.1	783.8	686.1
117.5°	1452.7	1480.0	1589.0	1698.0	1589.0	1480.0	1452.7	1218.2	905.4	749.1	666.0
120°	1378.2	1404.7	1510.5	1616.4	1510.5	1404.7	1378.2	1163.8	878.1	735.2	659.2
122.5°	1303.5	1329.6	1434.0	1538.5	1434.0	1329.6	1303.5	1110.5	853.2	724.6	655.6
125°	1204.7	1228.8	1325.0	1421.2	1325.0	1228.8	1204.7	1040.8	822.3	712.9	652.7
127.5°	1125.5	1145.8	1226.9	1308.1	1226.9	1145.8	1125.5	984.8	797.0	703.2	651.0
130°	1075.4	1094.2	1169.2	1244.2	1169.2	1094.2	1075.4	950.1	783.0	699.5	652.1
132.5°	1032.8	1049.6	1116.7	1183.9	1116.7	1049.6	1032.8	920.6	771.0	696.3	652.7
135°	972.6	987.1	1044.9	1102.8	1044.9	987.1	972.6	878.7	753.4	690.7	652.1
137.5°	928.0	939.8	987.3	1034.6	987.3	939.8	928.0	848.6	742.7	689.7	656.1
140°	892.4	903.5	947.7	992.0	947.7	903.5	892.4	823.8	732.3	686.5	656.8
142.5°	867.3	876.8	914.9	953.1	914.9	876.8	867.3	807.0	726.7	686.5	659.1
145°	829.8	837.0	865.9	894.7	865.9	837.0	829.8	780.4	714.7	681.9	659.1
147.5°	798.3	804.3	828.1	852.0	828.1	804.3	798.3	759.5	707.7	681.9	663.6
150°	780.2	785.0	804.4	823.8	804.4	785.0	780.2	747.4	703.7	681.9	666.0
152.5°	765.8	769.4	784.0	798.7	784.0	769.4	765.8	737.8	700.5	681.9	667.5
155°	748.7	751.1	760.7	770.4	760.7	751.1	748.7	726.4	696.7	681.9	670.9
157.5°	733.8	735.5	742.3	749.1	742.3	735.5	733.8	716.5	693.4	681.9	674.3
160°	726.4	727.4	731.3	735.2	731.3	727.4	726.4	711.5	691.7	681.9	675.9
162.5°	719.5	720.4	724.1	727.8	724.1	720.4	719.5	706.9	690.2	681.9	677.6
165°	708.7	709.7	713.7	717.6	713.7	709.7	708.7	699.8	687.9	681.9	679.9
167.5°	704.2	704.6	706.2	707.8	706.2	704.6	704.2	698.3	690.5	686.5	684.9
170°	704.2	704.2	704.2	704.2	704.2	704.2	704.2	698.3	690.5	686.5	686.4
172.5°	700.4	700.0	698.6	697.2	698.6	700.0	700.4	695.7	689.6	686.5	686.5
175°	695.3	695.3	695.3	695.3	695.3	695.3	695.3	692.3	688.5	686.5	687.4
177.5°	694.4	694.0	692.3	690.7	692.3	694.0	694.4	692.1	688.9	687.4	688.1
180°	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1601.5	1601.5	1601.5	1601.5	1601.5
2.5°	1581.8	1589.4	1593.9	1600.0	1615.1
5°	1521.2	1550.0	1559.1	1581.8	1609.1
7.5°	1387.9	1475.7	1500.0	1554.5	1597.0
10°	1259.1	1347.0	1389.4	1518.2	1581.8
12.5°	1193.9	1245.5	1274.2	1454.5	1560.6
15°	1153.1	1189.4	1210.6	1369.7	1536.4
17.5°	1121.2	1147.0	1162.1	1286.4	1503.0
20°	1101.5	1113.7	1127.3	1225.8	1465.2
22.5°	1087.9	1080.3	1090.9	1183.3	1413.6
25°	1078.8	1050.0	1062.1	1150.0	1353.0
27.5°	1086.4	1022.7	1027.3	1119.7	1289.4
30°	1087.9	989.4	990.9	1087.9	1218.2
32.5°	1077.2	954.6	956.1	1048.5	1137.9
35°	1051.5	913.7	912.1	1003.0	1028.8
37.5°	1016.6	869.7	869.7	953.1	909.1
40°	974.3	825.7	830.3	887.9	803.0
42.5°	922.7	778.8	784.8	801.5	724.2
45°	866.7	733.4	737.9	677.3	663.6
47.5°	804.5	686.3	687.9	562.2	643.9
50°	730.3	637.9	631.8	481.9	642.4
52.5°	665.1	584.8	566.6	436.4	583.3
55°	601.6	528.8	489.4	401.5	540.9
57.5°	545.4	456.1	418.2	360.6	531.8
60°	493.9	384.8	356.1	316.7	487.9
62.5°	451.5	331.8	325.7	286.3	442.5
65°	406.0	295.5	293.9	260.6	375.8
67.5°	362.2	271.2	269.7	236.4	286.3
70°	315.1	245.5	242.5	210.6	212.1
72.5°	266.6	216.7	213.6	189.4	175.7
75°	218.2	183.4	181.8	165.2	142.4
77.5°	171.2	145.5	148.4	133.3	104.6
80°	122.7	106.1	109.0	95.4	78.8
82.5°	81.8	69.7	72.7	60.6	53.0
85°	45.5	39.4	40.9	31.8	24.3
87.5°	21.2	18.2	18.2	12.1	7.6
90°	20.4	13.0	12.1	8.3	4.7
92.5°	125.8	89.4	81.6	50.0	18.5
95°	309.5	174.3	159.9	102.2	44.5
97.5°	416.9	191.4	178.7	127.8	76.9
100°	456.0	205.8	194.3	148.2	102.0
102.5°	473.9	220.2	209.4	166.3	123.3
105°	487.2	241.6	232.4	196.0	159.5
107.5°	489.7	273.1	264.6	230.5	196.5
110°	486.0	290.6	282.9	252.3	221.6



TEST NUMBER: P935758

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	486.1	311.9	304.6	275.4	246.1
115°	490.6	344.0	337.3	310.2	283.2
117.5°	499.8	375.0	369.0	344.4	319.9
120°	507.2	393.1	387.4	364.3	341.2
122.5°	517.8	414.4	408.6	385.3	362.1
125°	532.2	441.7	436.5	415.2	394.0
127.5°	546.5	468.2	462.8	441.4	420.0
130°	557.1	485.8	480.1	457.0	433.9
132.5°	565.6	500.2	494.5	471.4	448.3
135°	574.8	516.9	511.6	490.6	469.6
137.5°	588.7	538.2	533.0	512.1	491.3
140°	597.3	552.6	547.8	528.6	509.4
142.5°	604.3	563.2	558.8	541.0	523.3
145°	613.6	579.4	575.6	560.1	544.7
147.5°	627.2	599.9	596.1	581.1	566.0
150°	634.3	610.5	607.1	593.5	579.9
152.5°	639.0	617.5	614.9	604.6	594.3
155°	649.1	632.7	630.8	623.2	615.6
157.5°	659.3	648.0	646.1	638.8	631.4
160°	664.0	655.0	653.6	647.8	642.0
162.5°	668.9	662.4	661.4	657.0	652.7
165°	676.1	673.1	672.1	668.2	664.2
167.5°	681.6	679.1	678.6	676.8	675.0
170°	686.3	686.1	685.6	683.7	681.9
172.5°	686.5	686.5	686.4	686.0	685.6
175°	689.3	690.7	690.7	690.7	690.7
177.5°	689.7	690.7	690.7	690.7	690.7
180°	690.7	690.7	690.7	690.7	690.7



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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	13.99	14.84	14.97	15.83	17.12	16.79	17.64	17.76	18.62	19.92
	3H	14.47	15.23	15.45	16.22	17.54	18.13	18.88	19.11	19.88	21.20
	4H	14.66	15.38	15.66	16.38	17.70	18.56	19.28	19.56	20.28	21.61
	6H	14.78	15.44	15.79	16.44	17.78	18.84	19.50	19.85	20.50	21.84
	8H	14.78	15.41	15.79	16.43	17.77	18.91	19.54	19.92	20.56	21.90
	12H	14.75	15.35	15.77	16.36	17.72	18.94	19.54	19.96	20.56	21.92
4H	2H	15.02	15.73	16.02	16.73	18.06	17.20	17.92	18.20	18.92	20.24
	3H	16.04	16.64	17.05	17.67	19.01	18.70	19.29	19.71	20.32	21.66
	4H	16.32	16.86	17.34	17.88	19.25	19.22	19.76	20.24	20.78	22.15
	6H	16.44	16.91	17.47	17.96	19.32	19.57	20.04	20.60	21.09	22.45
	8H	16.45	16.89	17.48	17.92	19.30	19.67	20.11	20.71	21.15	22.53
	12H	16.41	16.81	17.47	17.86	19.24	19.73	20.12	20.78	21.17	22.55
8H	4H	16.77	17.20	17.80	18.24	19.62	19.34	19.78	20.37	20.82	22.19
	6H	17.03	17.39	18.08	18.47	19.84	19.77	20.13	20.82	21.21	22.58
	8H	17.07	17.39	18.13	18.45	19.84	19.92	20.23	20.98	21.30	22.69
	12H	17.05	17.33	18.12	18.39	19.83	20.01	20.29	21.07	21.35	22.78
12H	4H	16.77	17.17	17.82	18.22	19.60	19.30	19.70	20.36	20.75	22.13
	6H	17.09	17.40	18.15	18.47	19.86	19.77	20.08	20.83	21.15	22.54
	8H	17.15	17.43	18.22	18.49	19.92	19.92	20.20	20.99	21.26	22.69