

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: P935358

Luminaire Tested: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935358
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-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: -

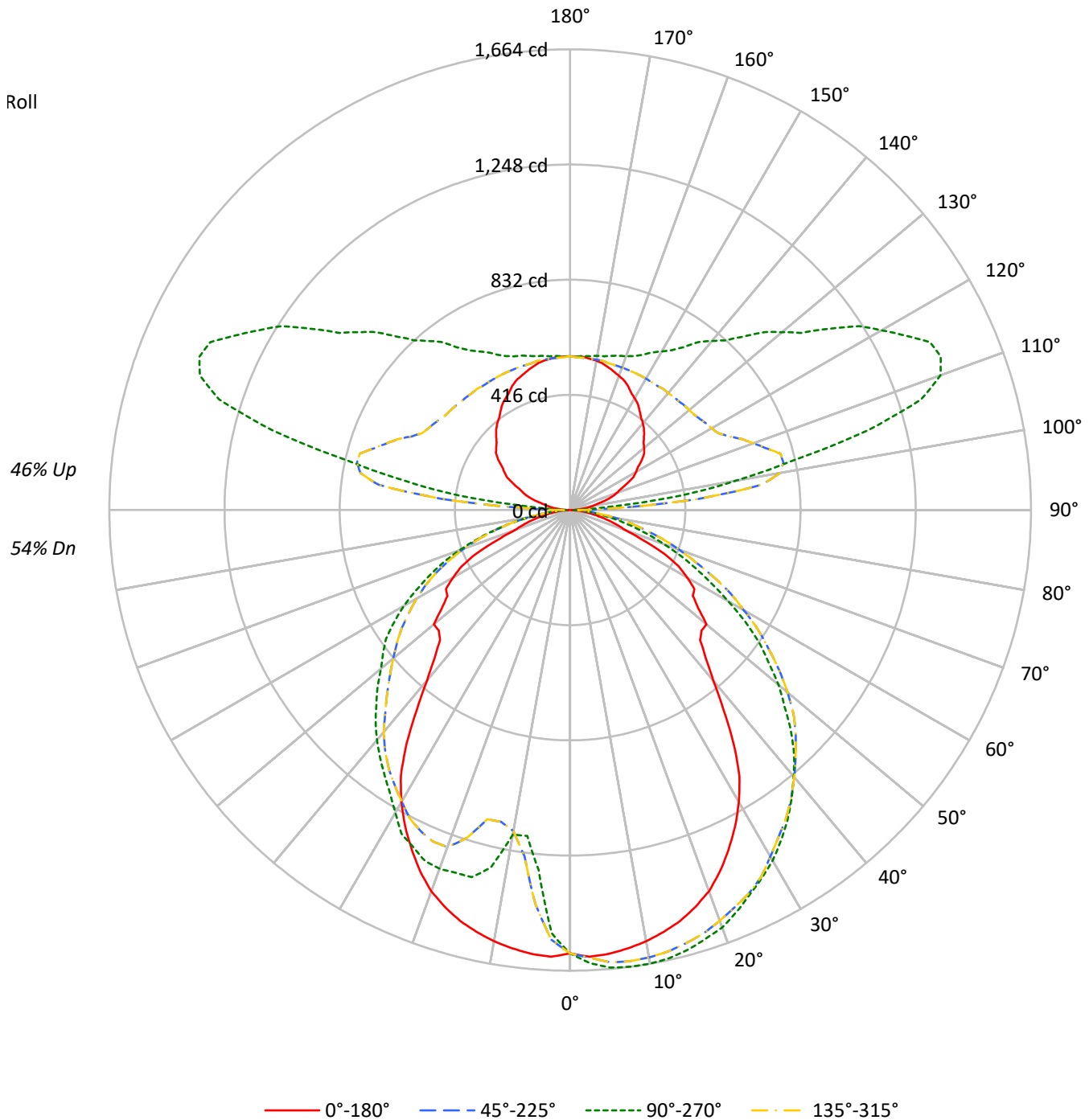
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7751.6 lumens
Efficiency: N/A
Efficacy: 112.7 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): 68.8
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54			
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45			
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38			
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36	32			
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28			
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24			
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21			
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19			
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19	17			
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15			
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13			

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	1.9
10°-20°	410.5	5.3
20°-30°	634.5	8.2
30°-40°	757.5	9.8
40°-50°	761.9	9.8
50°-60°	662.9	8.6
60°-70°	470.0	6.1
70°-80°	248.7	3.2
80°-90°	64.0	0.8
90°-100°	270.5	3.5
100°-110°	711.1	9.2
110°-120°	737.3	9.5
120°-130°	591.4	7.6
130°-140°	464.0	6.0
140°-150°	356.2	4.6
150°-160°	256.5	3.3
160°-170°	156.9	2.0
170°-180°	53.0	0.7
0°-30°	1189.5	15.3
0°-40°	1947.0	25.1
0°-60°	3371.8	43.5
0°-90°	4154.6	53.6
90°-120°	1718.9	22.2
90°-150°	3130.5	40.4
90°-180°	3597.0	46.4
0°-180°	7751.6	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°	4	14	4	14	4	4
95°	36	164	36	164	36	40
105°	128	1114	128	1114	128	136
115°	228	1434	228	1434	228	225
125°	317	1142	317	1142	317	281
135°	377	886	377	886	377	292
145°	438	719	438	719	438	274
155°	495	619	495	619	495	227
165°	534	576	534	576	534	151
175°	555	559	555	559	555	53
180°	555	555	555	555	555	



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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°	3.8	6.7	9.7	10.4	16.4	24.4	28.3	25.2	18.9	14.1	14.1
92.5°	14.9	40.2	65.5	71.9	101.1	139.9	159.4	139.7	100.3	70.7	68.0
95°	35.7	82.1	128.5	140.0	248.6	393.4	465.8	415.7	315.4	240.2	231.7
97.5°	61.8	102.7	143.6	153.8	334.9	576.4	697.1	665.4	602.0	554.5	538.3
100°	81.9	119.0	156.1	165.4	366.4	634.3	768.3	770.6	775.2	778.7	759.3
102.5°	99.0	133.7	168.2	176.9	380.8	652.5	788.4	828.8	909.5	970.1	953.5
105°	128.1	157.4	186.7	194.0	391.4	654.6	786.2	876.7	1057.7	1193.5	1184.7
107.5°	157.9	185.2	212.5	219.4	393.4	625.4	741.4	867.7	1120.3	1309.8	1311.9
110°	178.0	202.7	227.3	233.5	390.4	599.6	704.2	845.4	1127.7	1339.5	1348.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	197.8	221.2	244.7	250.6	390.5	577.0	670.3	814.8	1103.7	1320.5	1334.7
115°	227.5	249.2	270.8	276.3	394.1	551.2	629.8	769.0	1047.3	1256.1	1275.8
117.5°	257.0	276.7	296.3	301.3	401.5	535.0	601.8	727.4	978.7	1167.1	1189.0
120°	274.1	292.6	311.1	315.8	407.4	529.6	590.6	705.4	935.0	1107.1	1128.5
122.5°	290.9	309.6	328.3	333.0	416.0	526.7	582.0	685.4	892.1	1047.2	1068.1
125°	316.6	333.6	350.6	354.9	427.5	524.3	572.7	660.6	836.1	967.8	987.2
127.5°	337.4	354.5	371.8	376.1	439.1	523.0	564.9	640.3	791.1	904.2	920.5
130°	348.5	367.1	385.6	390.3	447.5	523.8	562.0	629.1	763.3	864.0	879.0
132.5°	360.1	378.6	397.2	401.8	454.3	524.3	559.3	619.4	739.5	829.7	843.2
135°	377.3	394.1	411.0	415.2	461.8	523.8	554.9	605.2	705.8	781.2	792.9
137.5°	394.7	411.5	428.1	432.3	472.9	527.1	554.1	596.6	681.7	745.5	755.0
140°	409.2	424.6	440.0	443.9	479.8	527.6	551.5	588.2	661.7	716.9	725.7
142.5°	420.4	434.7	448.9	452.5	485.5	529.5	551.5	583.7	648.3	696.7	704.4
145°	437.5	450.0	462.3	465.5	493.0	529.6	547.8	574.3	627.0	666.6	672.4
147.5°	454.7	466.8	478.8	481.9	503.9	533.2	547.8	568.6	610.2	641.3	646.1
150°	465.8	476.8	487.7	490.5	509.6	535.1	547.8	565.4	600.4	626.7	630.6
152.5°	477.4	485.6	493.9	496.0	513.3	536.3	547.8	562.8	592.7	615.2	618.1
155°	494.6	500.7	506.8	508.4	521.5	539.1	547.8	559.7	583.6	601.4	603.4
157.5°	507.2	513.2	519.1	520.6	529.7	541.8	547.8	557.1	575.6	589.5	590.8
160°	515.8	520.4	525.0	526.2	533.4	543.0	547.8	555.8	571.7	583.6	584.4
162.5°	524.3	527.8	531.3	532.2	537.4	544.3	547.8	554.6	567.9	577.9	578.6
165°	533.6	536.7	539.9	540.7	543.1	546.2	547.8	552.7	562.3	569.4	570.2
167.5°	542.2	543.7	545.2	545.6	547.6	550.2	551.5	554.6	560.9	565.7	566.0
170°	547.8	549.3	550.8	551.2	551.2	551.4	551.5	554.6	560.9	565.7	565.7
172.5°	550.8	551.2	551.4	551.5	551.5	551.5	551.5	554.0	558.9	562.7	562.4
175°	554.9	554.9	554.9	554.9	553.8	552.2	551.5	553.1	556.3	558.6	558.6
177.5°	554.9	554.9	554.9	554.9	554.0	552.9	552.2	553.5	556.0	557.9	557.5
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



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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°	14.1	14.1	14.1	14.1	14.1	18.9	25.2	28.3	24.4	16.4	10.4
92.5°	56.7	45.4	56.7	68.0	70.7	100.3	139.7	159.4	139.9	101.1	71.9
95°	197.6	163.5	197.6	231.7	240.2	315.4	415.7	465.8	393.4	248.6	140.0
97.5°	473.4	408.5	473.4	538.3	554.5	602.0	665.4	697.1	576.4	334.9	153.8
100°	682.0	604.8	682.0	759.3	778.7	775.2	770.6	768.3	634.3	366.4	165.4
102.5°	887.3	821.2	887.3	953.5	970.1	909.5	828.8	788.4	652.5	380.8	176.9
105°	1149.0	1113.5	1149.0	1184.7	1193.5	1057.7	876.7	786.2	654.6	391.4	194.0
107.5°	1320.5	1329.1	1320.5	1311.9	1309.8	1120.3	867.7	741.4	625.4	393.4	219.4
110°	1385.9	1422.9	1385.9	1348.8	1339.5	1127.7	845.4	704.2	599.6	390.4	233.5



TEST NUMBER: P935358

CATALOG NUMBER: SQ4-FA-100U-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°	1391.7	1448.6	1391.7	1334.7	1320.5	1103.7	814.8	670.3	577.0	390.5	250.6
115°	1354.8	1433.8	1354.8	1275.8	1256.1	1047.3	769.0	629.8	551.2	394.1	276.3
117.5°	1276.5	1364.1	1276.5	1189.0	1167.1	978.7	727.4	601.8	535.0	401.5	301.3
120°	1213.5	1298.6	1213.5	1128.5	1107.1	935.0	705.4	590.6	529.6	407.4	315.8
122.5°	1152.1	1236.0	1152.1	1068.1	1047.2	892.1	685.4	582.0	526.7	416.0	333.0
125°	1064.4	1141.8	1064.4	987.2	967.8	836.1	660.6	572.7	524.3	427.5	354.9
127.5°	985.7	1050.9	985.7	920.5	904.2	791.1	640.3	564.9	523.0	439.1	376.1
130°	939.3	999.5	939.3	879.0	864.0	763.3	629.1	562.0	523.8	447.5	390.3
132.5°	897.1	951.1	897.1	843.2	829.7	739.5	619.4	559.3	524.3	454.3	401.8
135°	839.4	885.9	839.4	792.9	781.2	705.8	605.2	554.9	523.8	461.8	415.2
137.5°	793.2	831.2	793.2	755.0	745.5	681.7	596.6	554.1	527.1	472.9	432.3
140°	761.4	796.9	761.4	725.7	716.9	661.7	588.2	551.5	527.6	479.8	443.9
142.5°	735.1	765.7	735.1	704.4	696.7	648.3	583.7	551.5	529.5	485.5	452.5
145°	695.6	718.8	695.6	672.4	666.6	627.0	574.3	547.8	529.6	493.0	465.5
147.5°	665.3	684.5	665.3	646.1	641.3	610.2	568.6	547.8	533.2	503.9	481.9
150°	646.1	661.7	646.1	630.6	626.7	600.4	565.4	547.8	535.1	509.6	490.5
152.5°	629.9	641.7	629.9	618.1	615.2	592.7	562.8	547.8	536.3	513.3	496.0
155°	611.1	618.9	611.1	603.4	601.4	583.6	559.7	547.8	539.1	521.5	508.4
157.5°	596.4	601.8	596.4	590.8	589.5	575.6	557.1	547.8	541.8	529.7	520.6
160°	587.5	590.6	587.5	584.4	583.6	571.7	555.8	547.8	543.0	533.4	526.2
162.5°	581.7	584.6	581.7	578.6	577.9	567.9	554.6	547.8	544.3	537.4	532.2
165°	573.4	576.5	573.4	570.2	569.4	562.3	552.7	547.8	546.2	543.1	540.7
167.5°	567.3	568.6	567.3	566.0	565.7	560.9	554.6	551.5	550.2	547.6	545.6
170°	565.7	565.7	565.7	565.7	565.7	560.9	554.6	551.5	551.4	551.2	551.2
172.5°	561.3	560.1	561.3	562.4	562.7	558.9	554.0	551.5	551.5	551.5	551.5
175°	558.6	558.6	558.6	558.6	558.6	556.3	553.1	551.5	552.2	553.8	554.9
177.5°	556.3	554.9	556.3	557.5	557.9	556.0	553.5	552.2	552.9	554.0	554.9
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



TEST NUMBER: P935358

CATALOG NUMBER: SQ4-FA-100U-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°	9.7	6.7	3.8	6.7	9.7	10.4	16.4	24.4	28.3	25.2	18.9
92.5°	65.5	40.2	14.9	40.2	65.5	71.9	101.1	139.9	159.4	139.7	100.3
95°	128.5	82.1	35.7	82.1	128.5	140.0	248.6	393.4	465.8	415.7	315.4
97.5°	143.6	102.7	61.8	102.7	143.6	153.8	334.9	576.4	697.1	665.4	602.0
100°	156.1	119.0	81.9	119.0	156.1	165.4	366.4	634.3	768.3	770.6	775.2
102.5°	168.2	133.7	99.0	133.7	168.2	176.9	380.8	652.5	788.4	828.8	909.5
105°	186.7	157.4	128.1	157.4	186.7	194.0	391.4	654.6	786.2	876.7	1057.7
107.5°	212.5	185.2	157.9	185.2	212.5	219.4	393.4	625.4	741.4	867.7	1120.3
110°	227.3	202.7	178.0	202.7	227.3	233.5	390.4	599.6	704.2	845.4	1127.7



TEST NUMBER: P935358

CATALOG NUMBER: SQ4-FA-100U-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°	244.7	221.2	197.8	221.2	244.7	250.6	390.5	577.0	670.3	814.8	1103.7
115°	270.8	249.2	227.5	249.2	270.8	276.3	394.1	551.2	629.8	769.0	1047.3
117.5°	296.3	276.7	257.0	276.7	296.3	301.3	401.5	535.0	601.8	727.4	978.7
120°	311.1	292.6	274.1	292.6	311.1	315.8	407.4	529.6	590.6	705.4	935.0
122.5°	328.3	309.6	290.9	309.6	328.3	333.0	416.0	526.7	582.0	685.4	892.1
125°	350.6	333.6	316.6	333.6	350.6	354.9	427.5	524.3	572.7	660.6	836.1
127.5°	371.8	354.5	337.4	354.5	371.8	376.1	439.1	523.0	564.9	640.3	791.1
130°	385.6	367.1	348.5	367.1	385.6	390.3	447.5	523.8	562.0	629.1	763.3
132.5°	397.2	378.6	360.1	378.6	397.2	401.8	454.3	524.3	559.3	619.4	739.5
135°	411.0	394.1	377.3	394.1	411.0	415.2	461.8	523.8	554.9	605.2	705.8
137.5°	428.1	411.5	394.7	411.5	428.1	432.3	472.9	527.1	554.1	596.6	681.7
140°	440.0	424.6	409.2	424.6	440.0	443.9	479.8	527.6	551.5	588.2	661.7
142.5°	448.9	434.7	420.4	434.7	448.9	452.5	485.5	529.5	551.5	583.7	648.3
145°	462.3	450.0	437.5	450.0	462.3	465.5	493.0	529.6	547.8	574.3	627.0
147.5°	478.8	466.8	454.7	466.8	478.8	481.9	503.9	533.2	547.8	568.6	610.2
150°	487.7	476.8	465.8	476.8	487.7	490.5	509.6	535.1	547.8	565.4	600.4
152.5°	493.9	485.6	477.4	485.6	493.9	496.0	513.3	536.3	547.8	562.8	592.7
155°	506.8	500.7	494.6	500.7	506.8	508.4	521.5	539.1	547.8	559.7	583.6
157.5°	519.1	513.2	507.2	513.2	519.1	520.6	529.7	541.8	547.8	557.1	575.6
160°	525.0	520.4	515.8	520.4	525.0	526.2	533.4	543.0	547.8	555.8	571.7
162.5°	531.3	527.8	524.3	527.8	531.3	532.2	537.4	544.3	547.8	554.6	567.9
165°	539.9	536.7	533.6	536.7	539.9	540.7	543.1	546.2	547.8	552.7	562.3
167.5°	545.2	543.7	542.2	543.7	545.2	545.6	547.6	550.2	551.5	554.6	560.9
170°	550.8	549.3	547.8	549.3	550.8	551.2	551.2	551.4	551.5	554.6	560.9
172.5°	551.4	551.2	550.8	551.2	551.4	551.5	551.5	551.5	551.5	554.0	558.9
175°	554.9	554.9	554.9	554.9	554.9	554.9	553.8	552.2	551.5	553.1	556.3
177.5°	554.9	554.9	554.9	554.9	554.9	554.9	554.0	552.9	552.2	553.5	556.0
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



TEST NUMBER: P935358

CATALOG NUMBER: SQ4-FA-100U-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°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	18.9	25.2	28.3	24.4
92.5°	70.7	68.0	56.7	45.4	56.7	68.0	70.7	100.3	139.7	159.4	139.9
95°	240.2	231.7	197.6	163.5	197.6	231.7	240.2	315.4	415.7	465.8	393.4
97.5°	554.5	538.3	473.4	408.5	473.4	538.3	554.5	602.0	665.4	697.1	576.4
100°	778.7	759.3	682.0	604.8	682.0	759.3	778.7	775.2	770.6	768.3	634.3
102.5°	970.1	953.5	887.3	821.2	887.3	953.5	970.1	909.5	828.8	788.4	652.5
105°	1193.5	1184.7	1149.0	1113.5	1149.0	1184.7	1193.5	1057.7	876.7	786.2	654.6
107.5°	1309.8	1311.9	1320.5	1329.1	1320.5	1311.9	1309.8	1120.3	867.7	741.4	625.4
110°	1339.5	1348.8	1385.9	1422.9	1385.9	1348.8	1339.5	1127.7	845.4	704.2	599.6



TEST NUMBER: P935358

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1320.5	1334.7	1391.7	1448.6	1391.7	1334.7	1320.5	1103.7	814.8	670.3	577.0
115°	1256.1	1275.8	1354.8	1433.8	1354.8	1275.8	1256.1	1047.3	769.0	629.8	551.2
117.5°	1167.1	1189.0	1276.5	1364.1	1276.5	1189.0	1167.1	978.7	727.4	601.8	535.0
120°	1107.1	1128.5	1213.5	1298.6	1213.5	1128.5	1107.1	935.0	705.4	590.6	529.6
122.5°	1047.2	1068.1	1152.1	1236.0	1152.1	1068.1	1047.2	892.1	685.4	582.0	526.7
125°	967.8	987.2	1064.4	1141.8	1064.4	987.2	967.8	836.1	660.6	572.7	524.3
127.5°	904.2	920.5	985.7	1050.9	985.7	920.5	904.2	791.1	640.3	564.9	523.0
130°	864.0	879.0	939.3	999.5	939.3	879.0	864.0	763.3	629.1	562.0	523.8
132.5°	829.7	843.2	897.1	951.1	897.1	843.2	829.7	739.5	619.4	559.3	524.3
135°	781.2	792.9	839.4	885.9	839.4	792.9	781.2	705.8	605.2	554.9	523.8
137.5°	745.5	755.0	793.2	831.2	793.2	755.0	745.5	681.7	596.6	554.1	527.1
140°	716.9	725.7	761.4	796.9	761.4	725.7	716.9	661.7	588.2	551.5	527.6
142.5°	696.7	704.4	735.1	765.7	735.1	704.4	696.7	648.3	583.7	551.5	529.5
145°	666.6	672.4	695.6	718.8	695.6	672.4	666.6	627.0	574.3	547.8	529.6
147.5°	641.3	646.1	665.3	684.5	665.3	646.1	641.3	610.2	568.6	547.8	533.2
150°	626.7	630.6	646.1	661.7	646.1	630.6	626.7	600.4	565.4	547.8	535.1
152.5°	615.2	618.1	629.9	641.7	629.9	618.1	615.2	592.7	562.8	547.8	536.3
155°	601.4	603.4	611.1	618.9	611.1	603.4	601.4	583.6	559.7	547.8	539.1
157.5°	589.5	590.8	596.4	601.8	596.4	590.8	589.5	575.6	557.1	547.8	541.8
160°	583.6	584.4	587.5	590.6	587.5	584.4	583.6	571.7	555.8	547.8	543.0
162.5°	577.9	578.6	581.7	584.6	581.7	578.6	577.9	567.9	554.6	547.8	544.3
165°	569.4	570.2	573.4	576.5	573.4	570.2	569.4	562.3	552.7	547.8	546.2
167.5°	565.7	566.0	567.3	568.6	567.3	566.0	565.7	560.9	554.6	551.5	550.2
170°	565.7	565.7	565.7	565.7	565.7	565.7	565.7	560.9	554.6	551.5	551.4
172.5°	562.7	562.4	561.3	560.1	561.3	562.4	562.7	558.9	554.0	551.5	551.5
175°	558.6	558.6	558.6	558.6	558.6	558.6	558.6	556.3	553.1	551.5	552.2
177.5°	557.9	557.5	556.3	554.9	556.3	557.5	557.9	556.0	553.5	552.2	552.9
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



TEST NUMBER: P935358

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3500K

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°	16.4	10.4	9.7	6.7	3.8
92.5°	101.1	71.9	65.5	40.2	14.9
95°	248.6	140.0	128.5	82.1	35.7
97.5°	334.9	153.8	143.6	102.7	61.8
100°	366.4	165.4	156.1	119.0	81.9
102.5°	380.8	176.9	168.2	133.7	99.0
105°	391.4	194.0	186.7	157.4	128.1
107.5°	393.4	219.4	212.5	185.2	157.9
110°	390.4	233.5	227.3	202.7	178.0



TEST NUMBER: P935358

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	390.5	250.6	244.7	221.2	197.8
115°	394.1	276.3	270.8	249.2	227.5
117.5°	401.5	301.3	296.3	276.7	257.0
120°	407.4	315.8	311.1	292.6	274.1
122.5°	416.0	333.0	328.3	309.6	290.9
125°	427.5	354.9	350.6	333.6	316.6
127.5°	439.1	376.1	371.8	354.5	337.4
130°	447.5	390.3	385.6	367.1	348.5
132.5°	454.3	401.8	397.2	378.6	360.1
135°	461.8	415.2	411.0	394.1	377.3
137.5°	472.9	432.3	428.1	411.5	394.7
140°	479.8	443.9	440.0	424.6	409.2
142.5°	485.5	452.5	448.9	434.7	420.4
145°	493.0	465.5	462.3	450.0	437.5
147.5°	503.9	481.9	478.8	466.8	454.7
150°	509.6	490.5	487.7	476.8	465.8
152.5°	513.3	496.0	493.9	485.6	477.4
155°	521.5	508.4	506.8	500.7	494.6
157.5°	529.7	520.6	519.1	513.2	507.2
160°	533.4	526.2	525.0	520.4	515.8
162.5°	537.4	532.2	531.3	527.8	524.3
165°	543.1	540.7	539.9	536.7	533.6
167.5°	547.6	545.6	545.2	543.7	542.2
170°	551.2	551.2	550.8	549.3	547.8
172.5°	551.5	551.5	551.4	551.2	550.8
175°	553.8	554.9	554.9	554.9	554.9
177.5°	554.0	554.9	554.9	554.9	554.9
180°	554.9	554.9	554.9	554.9	554.9



TEST NUMBER: P935358
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.50	15.39	15.42	16.33	17.55	17.29	18.19	18.22	19.13	20.35
	3H	14.98	15.78	15.91	16.73	17.97	18.63	19.43	19.57	20.39	21.63
	4H	15.17	15.93	16.12	16.88	18.14	19.07	19.83	20.02	20.79	22.04
	6H	15.29	15.99	16.25	16.95	18.22	19.35	20.05	20.31	21.01	22.28
	8H	15.29	15.96	16.26	16.94	18.20	19.42	20.09	20.39	21.07	22.33
	12H	15.26	15.90	16.24	16.87	18.16	19.46	20.09	20.43	21.06	22.35
4H	2H	15.53	16.28	16.48	17.24	18.49	17.71	18.47	18.67	19.42	20.68
	3H	16.55	17.19	17.52	18.17	19.44	19.21	19.84	20.18	20.83	22.09
	4H	16.83	17.41	17.81	18.39	19.68	19.73	20.31	20.71	21.29	22.58
	6H	16.96	17.46	17.95	18.46	19.75	20.09	20.59	21.08	21.59	22.88
	8H	16.97	17.43	17.96	18.43	19.73	20.19	20.66	21.18	21.66	22.96
	12H	16.94	17.35	17.95	18.37	19.68	20.25	20.67	21.26	21.68	22.99
8H	4H	17.28	17.75	18.28	18.75	20.05	19.86	20.32	20.85	21.32	22.62
	6H	17.55	17.93	18.56	18.97	20.27	20.29	20.67	21.30	21.71	23.01
	8H	17.59	17.93	18.61	18.96	20.27	20.44	20.77	21.46	21.80	23.12
	12H	17.58	17.87	18.60	18.89	20.26	20.53	20.83	21.56	21.85	23.21
12H	4H	17.29	17.71	18.30	18.72	20.03	19.83	20.24	20.84	21.26	22.57
	6H	17.61	17.95	18.63	18.97	20.29	20.29	20.63	21.31	21.65	22.97
	8H	17.67	17.97	18.70	18.99	20.36	20.44	20.74	21.47	21.76	23.13