

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: P934958

Luminaire Tested: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

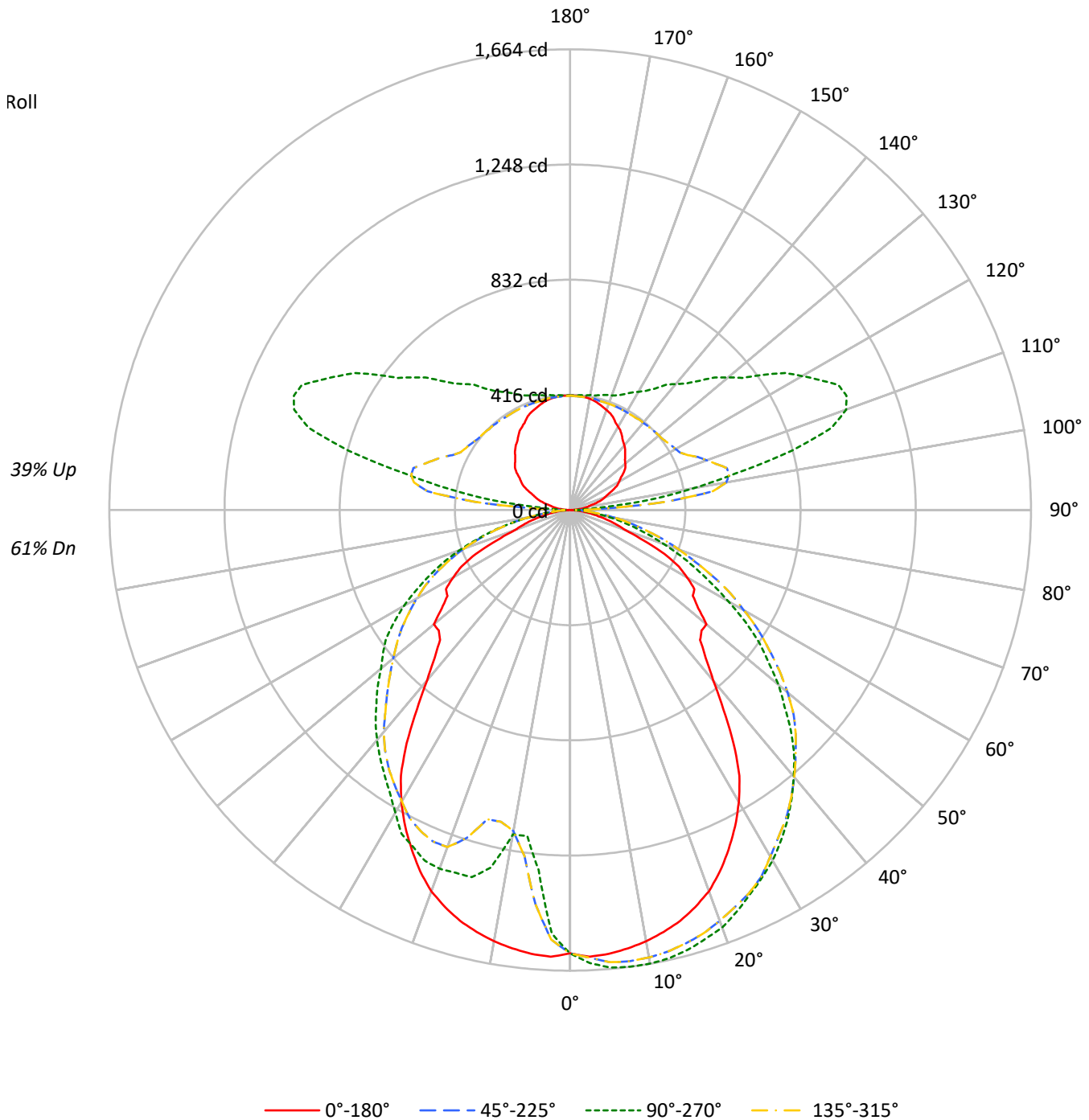
Test Method: LM-79-2019  
Report Number: P934958  
REPORT IS A COMBINATION OF REPORTS P933718 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6834.8 lumens  
Efficiency: N/A  
Efficacy: 110.2 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: Semi-Direct  
  
Input Watts (W): 62  
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	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

**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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CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.6	2.1
10°-20°	410.5	6.0
20°-30°	634.5	9.3
30°-40°	757.5	11.1
40°-50°	761.9	11.1
50°-60°	662.9	9.7
60°-70°	470.0	6.9
70°-80°	248.7	3.6
80°-90°	63.5	0.9
90°-100°	201.6	2.9
100°-110°	530.0	7.8
110°-120°	549.5	8.0
120°-130°	440.8	6.4
130°-140°	345.9	5.1
140°-150°	265.5	3.9
150°-160°	191.2	2.8
160°-170°	117.0	1.7
170°-180°	39.5	0.6
0°-30°	1189.5	17.4
0°-40°	1947.0	28.5
0°-60°	3371.8	49.3
0°-90°	4154.0	60.8
90°-120°	1281.1	18.7
90°-150°	2333.1	34.1
90°-180°	2681.0	39.2
0°-180°	6834.8	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°	3	11	3	11	3	3
95°	27	122	27	122	27	30
105°	95	830	95	830	95	101
115°	170	1069	170	1069	170	168
125°	236	851	236	851	236	209
135°	281	660	281	660	281	218
145°	326	536	326	536	326	204
155°	369	461	369	461	369	169
165°	398	430	398	430	398	112
175°	414	416	414	416	414	39
180°	414	414	414	414	414	



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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°	2.8	5.0	7.3	7.8	12.3	18.2	21.1	18.8	14.1	10.6	10.6
92.5°	11.1	30.0	48.8	53.5	75.3	104.3	118.8	104.1	74.8	52.7	50.7
95°	26.7	61.2	95.8	104.4	185.3	293.2	347.2	309.8	235.0	179.0	172.6
97.5°	46.1	76.5	107.0	114.6	249.6	429.6	519.5	495.9	448.7	413.3	401.2
100°	61.1	88.6	116.3	123.2	273.0	472.7	572.6	574.3	577.7	580.3	565.9
102.5°	73.9	99.6	125.3	131.8	283.7	486.3	587.6	617.7	677.8	723.0	710.6
105°	95.4	117.3	139.1	144.6	291.7	487.9	585.9	653.4	788.3	889.5	882.9
107.5°	117.6	138.1	158.4	163.5	293.2	466.1	552.6	646.7	834.9	976.1	977.7
110°	132.7	151.0	169.5	174.0	291.0	446.9	524.8	630.0	840.4	998.3	1005.2



TEST NUMBER: P934958

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	147.4	164.9	182.4	186.8	291.1	430.1	499.6	607.3	822.6	984.1	994.8
115°	169.6	185.7	201.9	205.9	293.8	410.8	469.3	573.1	780.5	936.1	950.8
117.5°	191.5	206.2	220.9	224.5	299.2	398.7	448.5	542.1	729.3	869.8	886.1
120°	204.3	218.1	231.9	235.4	303.6	394.7	440.1	525.7	696.8	825.1	841.0
122.5°	216.8	230.7	244.6	248.1	310.0	392.5	433.8	510.8	664.9	780.4	796.1
125°	235.9	248.6	261.3	264.5	318.6	390.8	426.9	492.3	623.2	721.4	735.8
127.5°	251.5	264.3	277.1	280.3	327.2	389.8	421.1	477.3	589.7	673.9	686.1
130°	259.8	273.6	287.4	290.9	333.5	390.4	418.8	468.9	568.9	643.9	655.1
132.5°	268.4	282.2	296.0	299.5	338.6	390.8	416.9	461.6	551.2	618.4	628.4
135°	281.1	293.7	306.3	309.4	344.2	390.4	413.5	451.1	526.1	582.3	591.0
137.5°	294.2	306.6	319.1	322.2	352.5	392.9	413.0	444.7	508.1	555.6	562.7
140°	305.0	316.5	328.0	330.8	357.6	393.2	411.0	438.4	493.1	534.2	540.9
142.5°	313.4	323.9	334.5	337.2	361.8	394.7	411.0	435.1	483.2	519.3	525.0
145°	326.1	335.4	344.6	346.9	367.3	394.7	408.3	428.0	467.3	496.8	501.1
147.5°	338.9	347.8	356.9	359.1	375.5	397.3	408.3	423.8	454.7	477.9	481.5
150°	347.2	355.3	363.5	365.6	379.8	398.8	408.3	421.3	447.5	467.1	469.9
152.5°	355.8	362.0	368.2	369.7	382.6	399.7	408.3	419.5	441.7	458.5	460.6
155°	368.6	373.2	377.6	378.8	388.7	401.7	408.3	417.1	434.9	448.2	449.6
157.5°	378.0	382.5	387.0	388.0	394.7	403.8	408.3	415.2	428.9	439.3	440.3
160°	384.4	387.8	391.3	392.1	397.5	404.7	408.3	414.2	426.1	434.9	435.5
162.5°	390.8	393.4	396.0	396.6	400.5	405.7	408.3	413.3	423.2	430.7	431.3
165°	397.7	400.0	402.4	403.0	404.8	407.1	408.3	411.8	419.0	424.4	425.0
167.5°	404.1	405.1	406.3	406.6	408.1	410.1	411.0	413.4	418.1	421.6	421.9
170°	408.3	409.3	410.5	410.8	410.9	410.9	411.0	413.4	418.1	421.6	421.6
172.5°	410.5	410.8	410.9	411.0	411.0	411.0	411.0	412.9	416.6	419.4	419.2
175°	413.5	413.5	413.5	413.5	412.7	411.6	411.0	412.2	414.5	416.3	416.3
177.5°	413.5	413.5	413.5	413.5	412.9	412.0	411.6	412.5	414.4	415.8	415.5
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



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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°	10.6	10.6	10.6	10.6	10.6	14.1	18.8	21.1	18.2	12.3	7.8
92.5°	42.3	33.8	42.3	50.7	52.7	74.8	104.1	118.8	104.3	75.3	53.5
95°	147.3	121.9	147.3	172.6	179.0	235.0	309.8	347.2	293.2	185.3	104.4
97.5°	352.8	304.5	352.8	401.2	413.3	448.7	495.9	519.5	429.6	249.6	114.6
100°	508.4	450.7	508.4	565.9	580.3	577.7	574.3	572.6	472.7	273.0	123.2
102.5°	661.3	611.9	661.3	710.6	723.0	677.8	617.7	587.6	486.3	283.7	131.8
105°	856.4	829.9	856.4	882.9	889.5	788.3	653.4	585.9	487.9	291.7	144.6
107.5°	984.1	990.6	984.1	977.7	976.1	834.9	646.7	552.6	466.1	293.2	163.5
110°	1032.8	1060.5	1032.8	1005.2	998.3	840.4	630.0	524.8	446.9	291.0	174.0





TEST NUMBER: P934958

CATALOG NUMBER: SQ4-FA-075U-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°	1037.2	1079.7	1037.2	994.8	984.1	822.6	607.3	499.6	430.1	291.1	186.8
115°	1009.7	1068.6	1009.7	950.8	936.1	780.5	573.1	469.3	410.8	293.8	205.9
117.5°	951.4	1016.6	951.4	886.1	869.8	729.3	542.1	448.5	398.7	299.2	224.5
120°	904.4	967.7	904.4	841.0	825.1	696.8	525.7	440.1	394.7	303.6	235.4
122.5°	858.6	921.2	858.6	796.1	780.4	664.9	510.8	433.8	392.5	310.0	248.1
125°	793.3	850.9	793.3	735.8	721.4	623.2	492.3	426.9	390.8	318.6	264.5
127.5°	734.6	783.2	734.6	686.1	673.9	589.7	477.3	421.1	389.8	327.2	280.3
130°	700.0	744.9	700.0	655.1	643.9	568.9	468.9	418.8	390.4	333.5	290.9
132.5°	668.6	708.8	668.6	628.4	618.4	551.2	461.6	416.9	390.8	338.6	299.5
135°	625.6	660.3	625.6	591.0	582.3	526.1	451.1	413.5	390.4	344.2	309.4
137.5°	591.1	619.5	591.1	562.7	555.6	508.1	444.7	413.0	392.9	352.5	322.2
140°	567.4	593.9	567.4	540.9	534.2	493.1	438.4	411.0	393.2	357.6	330.8
142.5°	547.8	570.6	547.8	525.0	519.3	483.2	435.1	411.0	394.7	361.8	337.2
145°	518.4	535.7	518.4	501.1	496.8	467.3	428.0	408.3	394.7	367.3	346.9
147.5°	495.8	510.1	495.8	481.5	477.9	454.7	423.8	408.3	397.3	375.5	359.1
150°	481.6	493.2	481.6	469.9	467.1	447.5	421.3	408.3	398.8	379.8	365.6
152.5°	469.4	478.2	469.4	460.6	458.5	441.7	419.5	408.3	399.7	382.6	369.7
155°	455.4	461.3	455.4	449.6	448.2	434.9	417.1	408.3	401.7	388.7	378.8
157.5°	444.4	448.5	444.4	440.3	439.3	428.9	415.2	408.3	403.8	394.7	388.0
160°	437.8	440.1	437.8	435.5	434.9	426.1	414.2	408.3	404.7	397.5	392.1
162.5°	433.5	435.7	433.5	431.3	430.7	423.2	413.3	408.3	405.7	400.5	396.6
165°	427.3	429.7	427.3	425.0	424.4	419.0	411.8	408.3	407.1	404.8	403.0
167.5°	422.9	423.8	422.9	421.9	421.6	418.1	413.4	411.0	410.1	408.1	406.6
170°	421.6	421.6	421.6	421.6	421.6	418.1	413.4	411.0	410.9	410.9	410.8
172.5°	418.3	417.4	418.3	419.2	419.4	416.6	412.9	411.0	411.0	411.0	411.0
175°	416.3	416.3	416.3	416.3	416.3	414.5	412.2	411.0	411.6	412.7	413.5
177.5°	414.5	413.5	414.5	415.5	415.8	414.4	412.5	411.6	412.0	412.9	413.5
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



TEST NUMBER: P934958

CATALOG NUMBER: SQ4-FA-075U-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°	7.3	5.0	2.8	5.0	7.3	7.8	12.3	18.2	21.1	18.8	14.1
92.5°	48.8	30.0	11.1	30.0	48.8	53.5	75.3	104.3	118.8	104.1	74.8
95°	95.8	61.2	26.7	61.2	95.8	104.4	185.3	293.2	347.2	309.8	235.0
97.5°	107.0	76.5	46.1	76.5	107.0	114.6	249.6	429.6	519.5	495.9	448.7
100°	116.3	88.6	61.1	88.6	116.3	123.2	273.0	472.7	572.6	574.3	577.7
102.5°	125.3	99.6	73.9	99.6	125.3	131.8	283.7	486.3	587.6	617.7	677.8
105°	139.1	117.3	95.4	117.3	139.1	144.6	291.7	487.9	585.9	653.4	788.3
107.5°	158.4	138.1	117.6	138.1	158.4	163.5	293.2	466.1	552.6	646.7	834.9
110°	169.5	151.0	132.7	151.0	169.5	174.0	291.0	446.9	524.8	630.0	840.4



TEST NUMBER: P934958

CATALOG NUMBER: SQ4-FA-075U-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°	182.4	164.9	147.4	164.9	182.4	186.8	291.1	430.1	499.6	607.3	822.6
115°	201.9	185.7	169.6	185.7	201.9	205.9	293.8	410.8	469.3	573.1	780.5
117.5°	220.9	206.2	191.5	206.2	220.9	224.5	299.2	398.7	448.5	542.1	729.3
120°	231.9	218.1	204.3	218.1	231.9	235.4	303.6	394.7	440.1	525.7	696.8
122.5°	244.6	230.7	216.8	230.7	244.6	248.1	310.0	392.5	433.8	510.8	664.9
125°	261.3	248.6	235.9	248.6	261.3	264.5	318.6	390.8	426.9	492.3	623.2
127.5°	277.1	264.3	251.5	264.3	277.1	280.3	327.2	389.8	421.1	477.3	589.7
130°	287.4	273.6	259.8	273.6	287.4	290.9	333.5	390.4	418.8	468.9	568.9
132.5°	296.0	282.2	268.4	282.2	296.0	299.5	338.6	390.8	416.9	461.6	551.2
135°	306.3	293.7	281.1	293.7	306.3	309.4	344.2	390.4	413.5	451.1	526.1
137.5°	319.1	306.6	294.2	306.6	319.1	322.2	352.5	392.9	413.0	444.7	508.1
140°	328.0	316.5	305.0	316.5	328.0	330.8	357.6	393.2	411.0	438.4	493.1
142.5°	334.5	323.9	313.4	323.9	334.5	337.2	361.8	394.7	411.0	435.1	483.2
145°	344.6	335.4	326.1	335.4	344.6	346.9	367.3	394.7	408.3	428.0	467.3
147.5°	356.9	347.8	338.9	347.8	356.9	359.1	375.5	397.3	408.3	423.8	454.7
150°	363.5	355.3	347.2	355.3	363.5	365.6	379.8	398.8	408.3	421.3	447.5
152.5°	368.2	362.0	355.8	362.0	368.2	369.7	382.6	399.7	408.3	419.5	441.7
155°	377.6	373.2	368.6	373.2	377.6	378.8	388.7	401.7	408.3	417.1	434.9
157.5°	387.0	382.5	378.0	382.5	387.0	388.0	394.7	403.8	408.3	415.2	428.9
160°	391.3	387.8	384.4	387.8	391.3	392.1	397.5	404.7	408.3	414.2	426.1
162.5°	396.0	393.4	390.8	393.4	396.0	396.6	400.5	405.7	408.3	413.3	423.2
165°	402.4	400.0	397.7	400.0	402.4	403.0	404.8	407.1	408.3	411.8	419.0
167.5°	406.3	405.1	404.1	405.1	406.3	406.6	408.1	410.1	411.0	413.4	418.1
170°	410.5	409.3	408.3	409.3	410.5	410.8	410.9	410.9	411.0	413.4	418.1
172.5°	410.9	410.8	410.5	410.8	410.9	411.0	411.0	411.0	411.0	412.9	416.6
175°	413.5	413.5	413.5	413.5	413.5	413.5	412.7	411.6	411.0	412.2	414.5
177.5°	413.5	413.5	413.5	413.5	413.5	413.5	412.9	412.0	411.6	412.5	414.4
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



TEST NUMBER: P934958

CATALOG NUMBER: SQ4-FA-075U-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°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	14.1	18.8	21.1	18.2
92.5°	52.7	50.7	42.3	33.8	42.3	50.7	52.7	74.8	104.1	118.8	104.3
95°	179.0	172.6	147.3	121.9	147.3	172.6	179.0	235.0	309.8	347.2	293.2
97.5°	413.3	401.2	352.8	304.5	352.8	401.2	413.3	448.7	495.9	519.5	429.6
100°	580.3	565.9	508.4	450.7	508.4	565.9	580.3	577.7	574.3	572.6	472.7
102.5°	723.0	710.6	661.3	611.9	661.3	710.6	723.0	677.8	617.7	587.6	486.3
105°	889.5	882.9	856.4	829.9	856.4	882.9	889.5	788.3	653.4	585.9	487.9
107.5°	976.1	977.7	984.1	990.6	984.1	977.7	976.1	834.9	646.7	552.6	466.1
110°	998.3	1005.2	1032.8	1060.5	1032.8	1005.2	998.3	840.4	630.0	524.8	446.9



TEST NUMBER: P934958

CATALOG NUMBER: SQ4-FA-075U-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°	984.1	994.8	1037.2	1079.7	1037.2	994.8	984.1	822.6	607.3	499.6	430.1
115°	936.1	950.8	1009.7	1068.6	1009.7	950.8	936.1	780.5	573.1	469.3	410.8
117.5°	869.8	886.1	951.4	1016.6	951.4	886.1	869.8	729.3	542.1	448.5	398.7
120°	825.1	841.0	904.4	967.7	904.4	841.0	825.1	696.8	525.7	440.1	394.7
122.5°	780.4	796.1	858.6	921.2	858.6	796.1	780.4	664.9	510.8	433.8	392.5
125°	721.4	735.8	793.3	850.9	793.3	735.8	721.4	623.2	492.3	426.9	390.8
127.5°	673.9	686.1	734.6	783.2	734.6	686.1	673.9	589.7	477.3	421.1	389.8
130°	643.9	655.1	700.0	744.9	700.0	655.1	643.9	568.9	468.9	418.8	390.4
132.5°	618.4	628.4	668.6	708.8	668.6	628.4	618.4	551.2	461.6	416.9	390.8
135°	582.3	591.0	625.6	660.3	625.6	591.0	582.3	526.1	451.1	413.5	390.4
137.5°	555.6	562.7	591.1	619.5	591.1	562.7	555.6	508.1	444.7	413.0	392.9
140°	534.2	540.9	567.4	593.9	567.4	540.9	534.2	493.1	438.4	411.0	393.2
142.5°	519.3	525.0	547.8	570.6	547.8	525.0	519.3	483.2	435.1	411.0	394.7
145°	496.8	501.1	518.4	535.7	518.4	501.1	496.8	467.3	428.0	408.3	394.7
147.5°	477.9	481.5	495.8	510.1	495.8	481.5	477.9	454.7	423.8	408.3	397.3
150°	467.1	469.9	481.6	493.2	481.6	469.9	467.1	447.5	421.3	408.3	398.8
152.5°	458.5	460.6	469.4	478.2	469.4	460.6	458.5	441.7	419.5	408.3	399.7
155°	448.2	449.6	455.4	461.3	455.4	449.6	448.2	434.9	417.1	408.3	401.7
157.5°	439.3	440.3	444.4	448.5	444.4	440.3	439.3	428.9	415.2	408.3	403.8
160°	434.9	435.5	437.8	440.1	437.8	435.5	434.9	426.1	414.2	408.3	404.7
162.5°	430.7	431.3	433.5	435.7	433.5	431.3	430.7	423.2	413.3	408.3	405.7
165°	424.4	425.0	427.3	429.7	427.3	425.0	424.4	419.0	411.8	408.3	407.1
167.5°	421.6	421.9	422.9	423.8	422.9	421.9	421.6	418.1	413.4	411.0	410.1
170°	421.6	421.6	421.6	421.6	421.6	421.6	421.6	418.1	413.4	411.0	410.9
172.5°	419.4	419.2	418.3	417.4	418.3	419.2	419.4	416.6	412.9	411.0	411.0
175°	416.3	416.3	416.3	416.3	416.3	416.3	416.3	414.5	412.2	411.0	411.6
177.5°	415.8	415.5	414.5	413.5	414.5	415.5	415.8	414.4	412.5	411.6	412.0
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



TEST NUMBER: P934958

CATALOG NUMBER: SQ4-FA-075U-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°	12.3	7.8	7.3	5.0	2.8
92.5°	75.3	53.5	48.8	30.0	11.1
95°	185.3	104.4	95.8	61.2	26.7
97.5°	249.6	114.6	107.0	76.5	46.1
100°	273.0	123.2	116.3	88.6	61.1
102.5°	283.7	131.8	125.3	99.6	73.9
105°	291.7	144.6	139.1	117.3	95.4
107.5°	293.2	163.5	158.4	138.1	117.6
110°	291.0	174.0	169.5	151.0	132.7



TEST NUMBER: P934958

CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	291.1	186.8	182.4	164.9	147.4
115°	293.8	205.9	201.9	185.7	169.6
117.5°	299.2	224.5	220.9	206.2	191.5
120°	303.6	235.4	231.9	218.1	204.3
122.5°	310.0	248.1	244.6	230.7	216.8
125°	318.6	264.5	261.3	248.6	235.9
127.5°	327.2	280.3	277.1	264.3	251.5
130°	333.5	290.9	287.4	273.6	259.8
132.5°	338.6	299.5	296.0	282.2	268.4
135°	344.2	309.4	306.3	293.7	281.1
137.5°	352.5	322.2	319.1	306.6	294.2
140°	357.6	330.8	328.0	316.5	305.0
142.5°	361.8	337.2	334.5	323.9	313.4
145°	367.3	346.9	344.6	335.4	326.1
147.5°	375.5	359.1	356.9	347.8	338.9
150°	379.8	365.6	363.5	355.3	347.2
152.5°	382.6	369.7	368.2	362.0	355.8
155°	388.7	378.8	377.6	373.2	368.6
157.5°	394.7	388.0	387.0	382.5	378.0
160°	397.5	392.1	391.3	387.8	384.4
162.5°	400.5	396.6	396.0	393.4	390.8
165°	404.8	403.0	402.4	400.0	397.7
167.5°	408.1	406.6	406.3	405.1	404.1
170°	410.9	410.8	410.5	409.3	408.3
172.5°	411.0	411.0	410.9	410.8	410.5
175°	412.7	413.5	413.5	413.5	413.5
177.5°	412.9	413.5	413.5	413.5	413.5
180°	413.5	413.5	413.5	413.5	413.5



TEST NUMBER: P934958  
 CATALOG NUMBER: SQ4-FA-075U-125D-93050-1D-UNV-STD-W-4-3500K

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.11	16.08	15.97	16.96	18.07	17.91	18.87	18.76	19.75	20.86
	3H	15.59	16.46	16.47	17.35	18.49	19.25	20.12	20.12	21.01	22.14
	4H	15.79	16.61	16.68	17.51	18.65	19.69	20.51	20.58	21.41	22.55
	6H	15.92	16.67	16.81	17.57	18.73	19.98	20.73	20.87	21.63	22.79
	8H	15.92	16.64	16.83	17.56	18.72	20.05	20.77	20.96	21.69	22.85
	12H	15.89	16.58	16.81	17.49	18.68	20.09	20.77	21.00	21.69	22.87
4H	2H	16.15	16.97	17.04	17.86	19.01	18.33	19.15	19.22	20.05	21.19
	3H	17.18	17.87	18.09	18.79	19.95	19.84	20.52	20.74	21.45	22.61
	4H	17.46	18.09	18.38	19.01	20.20	20.36	20.98	21.28	21.91	23.09
	6H	17.60	18.13	18.52	19.08	20.27	20.73	21.26	21.65	22.21	23.40
	8H	17.60	18.11	18.54	19.05	20.25	20.83	21.33	21.76	22.27	23.47
	12H	17.58	18.03	18.53	18.99	20.19	20.89	21.34	21.84	22.30	23.50
8H	4H	17.92	18.42	18.85	19.36	20.57	20.50	21.00	21.43	21.94	23.14
	6H	18.19	18.60	19.14	19.59	20.78	20.93	21.34	21.89	22.33	23.53
	8H	18.23	18.60	19.20	19.57	20.79	21.08	21.44	22.04	22.42	23.63
	12H	18.22	18.54	19.19	19.51	20.78	21.17	21.50	22.15	22.46	23.73
12H	4H	17.93	18.38	18.88	19.34	20.55	20.47	20.92	21.42	21.88	23.08
	6H	18.25	18.61	19.21	19.59	20.81	20.93	21.29	21.89	22.27	23.49
	8H	18.32	18.64	19.29	19.61	20.87	21.09	21.41	22.06	22.38	23.64