

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: P933989

Luminaire Tested: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933989
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

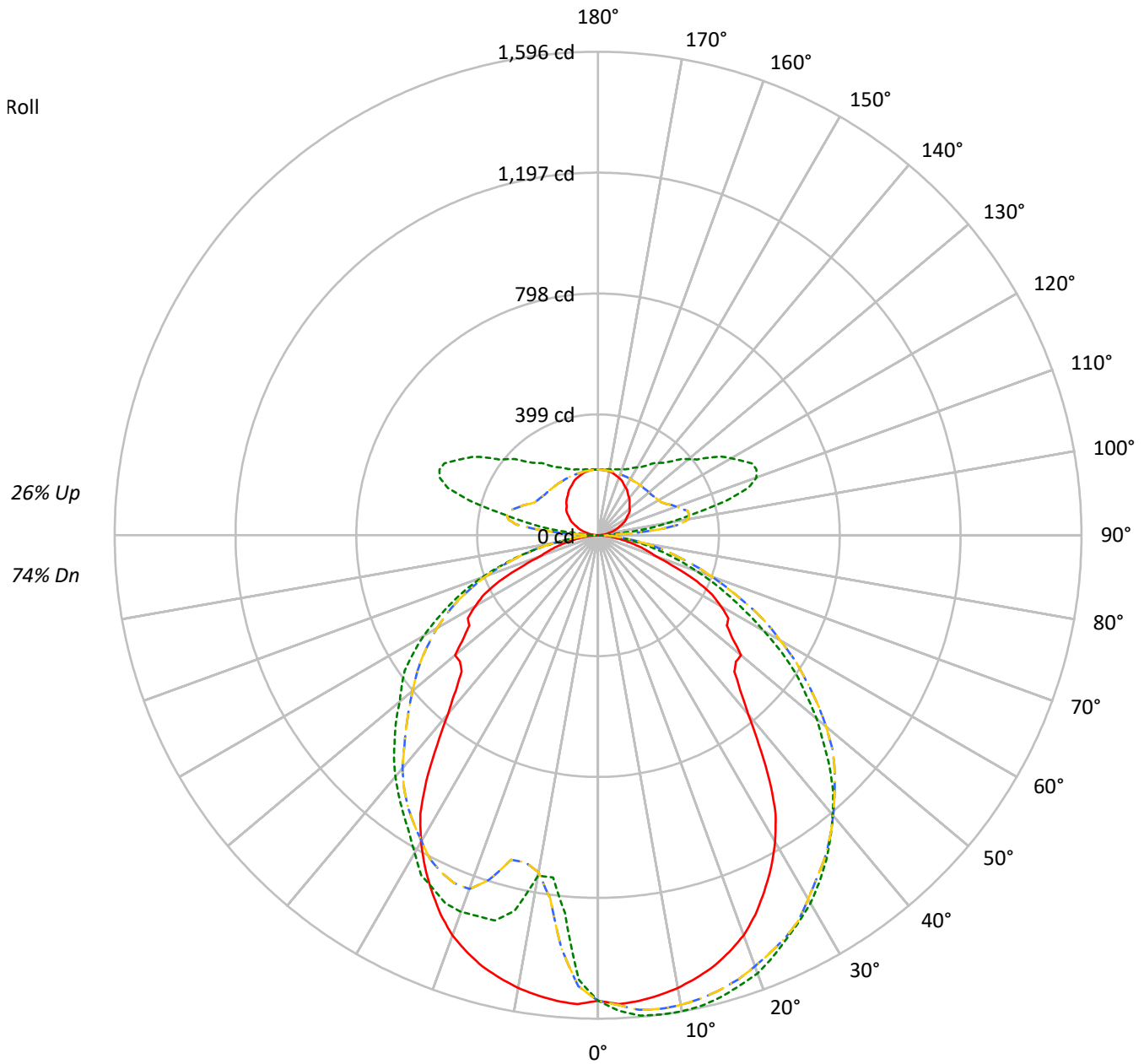
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5390.4 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45
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



— 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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9504	9504	9504	9504
5°	9571	9594	9571	7544
10°	9504	9450	9504	6756
15°	9397	9245	9397	7721
20°	9197	9003	9197	7737
25°	8791	8649	8791	7572
30°	8268	8356	8268	7213
35°	7367	7984	7367	6817
40°	6136	7547	6136	6518
45°	5478	7035	5478	6174
50°	5816	6425	5816	5830
55°	5466	5767	5466	5630
60°	5628	4898	5628	5156
65°	5095	4048	5095	4526
70°	3520	3227	3520	3793
75°	3074	2385	3074	2856
80°	2461	1577	2461	1716
85°	1389	835	1389	710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8402 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	2.6
10°-20°	393.8	7.3
20°-30°	608.7	11.3
30°-40°	726.6	13.5
40°-50°	730.9	13.6
50°-60°	636.0	11.8
60°-70°	450.9	8.4
70°-80°	238.6	4.4
80°-90°	60.2	1.1
90°-100°	105.7	2.0
100°-110°	278.0	5.2
110°-120°	288.2	5.3
120°-130°	231.2	4.3
130°-140°	181.4	3.4
140°-150°	139.2	2.6
150°-160°	100.3	1.9
160°-170°	61.4	1.1
170°-180°	20.7	0.4
0°-30°	1141.1	21.2
0°-40°	1867.7	34.6
0°-60°	3234.6	60.0
0°-90°	3984.3	73.9
90°-120°	671.9	12.5
90°-150°	1223.8	22.7
90°-180°	1406.0	26.1
0°-180°	5390.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1536	1536	1536	1536	1536	
5°	1544	1592	1544	1252	1544	146
15°	1474	1577	1474	1317	1474	415
25°	1298	1471	1298	1288	1298	596
35°	987	1312	987	1121	987	611
45°	637	1081	637	949	637	510
55°	519	798	519	779	519	477
65°	360	481	360	538	360	345
75°	137	228	137	273	137	144
85°	23	58	23	49	23	31
90°	2	6	2	6	2	2
95°	14	64	14	64	14	16
105°	50	435	50	435	50	53
115°	89	560	89	560	89	88
125°	124	446	124	446	124	110
135°	148	346	148	346	148	114
145°	171	281	171	281	171	107
155°	193	242	193	242	193	89
165°	209	225	209	225	209	59
175°	217	218	217	218	217	21
180°	217	217	217	217	217	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1549.4	1549.4	1558.2	1561.1	1561.1	1556.7	1552.3	1556.7	1569.8	1574.1	1572.7
5°	1543.6	1555.2	1571.2	1574.1	1577.0	1575.6	1572.7	1575.6	1590.1	1593.0	1594.5
7.5°	1532.0	1553.8	1574.1	1578.5	1582.9	1578.5	1577.0	1580.0	1594.5	1597.4	1597.4
10°	1517.5	1548.0	1571.2	1574.1	1578.5	1574.1	1574.1	1580.0	1594.5	1597.4	1598.8
12.5°	1497.1	1539.3	1561.1	1564.0	1569.8	1568.3	1566.9	1572.7	1587.2	1590.1	1590.1
15°	1473.8	1523.3	1543.6	1546.5	1556.7	1553.8	1553.8	1559.6	1575.6	1580.0	1578.5
17.5°	1441.9	1502.9	1526.2	1530.5	1537.8	1536.3	1537.8	1543.6	1558.2	1561.1	1562.5
20°	1405.5	1475.3	1502.9	1507.3	1514.5	1514.5	1514.5	1521.8	1536.3	1542.2	1542.2
22.5°	1356.1	1446.2	1475.3	1478.2	1486.9	1486.9	1489.8	1500.0	1513.1	1514.5	1514.5
25°	1298.0	1414.3	1439.0	1447.7	1456.4	1460.8	1465.1	1470.9	1475.3	1473.8	1475.3
27.5°	1236.9	1373.6	1405.5	1411.3	1423.0	1427.3	1433.2	1434.6	1436.1	1440.4	1437.5
30°	1168.6	1316.9	1364.8	1370.7	1389.5	1392.5	1386.6	1389.5	1396.8	1399.7	1402.6
32.5°	1091.6	1232.6	1322.7	1335.8	1353.2	1344.5	1343.0	1347.4	1359.0	1359.0	1361.9
35°	986.9	1167.2	1283.4	1295.1	1308.1	1298.0	1303.8	1305.2	1312.5	1316.9	1315.4
37.5°	872.1	1110.5	1242.7	1251.5	1261.6	1248.6	1257.3	1261.6	1267.5	1264.5	1264.5
40°	770.4	1021.8	1194.8	1200.6	1209.3	1199.1	1207.9	1210.8	1213.7	1210.8	1209.3
42.5°	694.8	924.4	1143.9	1151.2	1145.4	1152.6	1155.5	1161.3	1157.0	1151.2	1151.2
45°	636.6	898.3	1088.7	1097.4	1088.7	1100.3	1104.7	1104.7	1091.6	1088.7	1087.2
47.5°	617.7	845.9	1033.4	1033.4	1029.1	1043.6	1050.9	1040.7	1027.6	1023.3	1023.3
50°	616.3	787.8	957.9	952.0	972.4	989.8	982.6	972.4	962.2	946.2	946.2
52.5°	559.6	716.6	860.5	882.3	914.3	924.4	912.8	902.6	885.2	877.9	872.1
55°	518.9	642.4	771.8	815.4	848.8	861.9	840.1	829.9	803.8	799.4	796.5
57.5°	510.2	534.9	690.4	745.6	786.3	784.9	771.8	752.9	731.1	726.8	725.3
60°	468.0	386.6	603.2	668.6	710.8	706.4	694.8	677.3	657.0	654.1	651.2
62.5°	424.4	280.5	504.4	578.5	638.1	636.6	626.5	600.3	585.8	578.5	572.7
65°	360.5	235.5	359.0	481.1	566.9	569.8	548.0	529.1	513.1	504.4	502.9
67.5°	274.7	191.9	242.7	401.2	498.6	495.6	468.0	459.3	439.0	434.6	425.9
70°	203.5	127.9	168.6	325.6	431.7	424.4	402.6	392.4	373.5	363.4	357.6
72.5°	168.6	103.2	123.5	252.9	363.4	354.7	335.8	324.1	308.1	299.4	293.6
75°	136.6	109.0	94.5	187.5	295.1	289.2	271.8	260.2	247.1	235.5	236.9
77.5°	100.3	101.7	75.6	138.1	234.0	225.3	215.1	200.6	194.8	183.1	183.1
80°	75.6	79.9	56.7	94.5	168.6	168.6	159.9	149.7	139.5	133.7	133.7
82.5°	50.9	50.9	42.2	59.6	114.8	110.5	104.7	101.7	95.9	93.0	93.0
85°	23.3	29.1	26.2	36.3	62.5	65.4	65.4	62.5	61.0	58.1	59.6
87.5°	7.3	13.1	16.0	20.3	32.0	33.4	34.9	34.9	34.9	36.3	36.3
90°	1.5	2.6	3.8	4.1	6.4	9.5	11.0	9.8	7.4	5.5	5.5
92.5°	5.8	15.7	25.6	28.1	39.5	54.7	62.3	54.6	39.1	27.6	26.6
95°	14.0	32.1	50.2	54.7	97.2	153.8	182.1	162.5	123.3	93.9	90.6
97.5°	24.1	40.1	56.1	60.1	130.9	225.3	272.5	260.1	235.4	216.8	210.5
100°	32.1	46.5	61.0	64.6	143.2	248.0	300.3	301.2	303.0	304.4	296.8
102.5°	38.8	52.3	65.8	69.2	148.8	255.0	308.1	323.9	355.5	379.3	372.8
105°	50.1	61.5	73.0	75.9	153.0	255.8	307.3	342.6	413.5	466.6	463.1
107.5°	61.7	72.4	83.0	85.8	153.8	244.5	289.8	339.2	438.0	512.0	512.9
110°	69.6	79.3	88.9	91.3	152.6	234.4	275.3	330.5	440.9	523.6	527.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	77.3	86.5	95.6	98.0	152.6	225.6	262.0	318.5	431.5	516.2	521.7
115°	89.0	97.5	105.9	108.0	154.1	215.4	246.1	300.6	409.4	491.0	498.7
117.5°	100.5	108.1	115.8	117.7	156.9	209.1	235.3	284.4	382.6	456.2	464.7
120°	107.2	114.4	121.6	123.5	159.3	207.1	230.9	275.8	365.5	432.9	441.2
122.5°	113.7	121.0	128.3	130.1	162.6	205.9	227.5	267.9	348.7	409.4	417.6
125°	123.7	130.4	137.1	138.8	167.2	205.0	223.9	258.2	326.9	378.4	386.0
127.5°	131.9	138.6	145.4	147.0	171.6	204.5	220.8	250.3	309.3	353.5	359.9
130°	136.2	143.5	150.7	152.5	174.9	204.7	219.7	245.9	298.4	337.7	343.6
132.5°	140.8	148.1	155.2	157.1	177.6	205.0	218.7	242.2	289.1	324.3	329.6
135°	147.5	154.1	160.7	162.3	180.5	204.8	217.0	236.6	276.0	305.4	310.0
137.5°	154.4	160.9	167.3	169.0	184.9	206.1	216.7	233.3	266.6	291.5	295.2
140°	160.0	166.0	172.0	173.5	187.6	206.3	215.6	229.9	258.7	280.2	283.7
142.5°	164.3	169.9	175.5	176.8	189.7	207.0	215.6	228.2	253.5	272.4	275.4
145°	171.0	175.9	180.7	182.0	192.7	207.0	214.1	224.4	245.1	260.6	262.8
147.5°	177.7	182.5	187.2	188.4	197.0	208.4	214.1	222.3	238.5	250.7	252.5
150°	182.1	186.3	190.7	191.8	199.2	209.2	214.1	221.0	234.7	245.0	246.5
152.5°	186.6	189.8	193.1	193.9	200.7	209.7	214.1	220.0	231.7	240.5	241.7
155°	193.3	195.7	198.2	198.7	203.9	210.8	214.1	218.8	228.1	235.1	235.9
157.5°	198.3	200.6	202.9	203.5	207.1	211.8	214.1	217.7	225.0	230.4	231.0
160°	201.6	203.5	205.2	205.7	208.5	212.3	214.1	217.2	223.5	228.1	228.4
162.5°	204.9	206.3	207.7	208.0	210.1	212.8	214.1	216.8	222.0	226.0	226.3
165°	208.6	209.8	211.0	211.3	212.3	213.6	214.1	216.0	219.8	222.6	222.9
167.5°	211.9	212.5	213.1	213.3	214.1	215.1	215.6	216.9	219.3	221.1	221.2
170°	214.1	214.7	215.3	215.4	215.5	215.6	215.6	216.9	219.3	221.1	221.1
172.5°	215.3	215.4	215.6	215.6	215.6	215.6	215.6	216.6	218.5	220.0	219.9
175°	217.0	217.0	217.0	217.0	216.5	215.9	215.6	216.2	217.4	218.4	218.4
177.5°	217.0	217.0	217.0	217.0	216.6	216.1	215.9	216.4	217.3	218.1	218.0
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1575.6	1571.2	1575.6	1572.7	1574.1	1569.8	1556.7	1552.3	1556.7	1561.1	1561.1
5°	1594.5	1591.6	1594.5	1594.5	1593.0	1590.1	1575.6	1572.7	1575.6	1577.0	1574.1
7.5°	1600.3	1595.9	1600.3	1597.4	1597.4	1594.5	1580.0	1577.0	1578.5	1582.9	1578.5
10°	1600.3	1595.9	1600.3	1598.8	1597.4	1594.5	1580.0	1574.1	1574.1	1578.5	1574.1
12.5°	1593.0	1590.1	1593.0	1590.1	1590.1	1587.2	1572.7	1566.9	1568.3	1569.8	1564.0
15°	1581.4	1577.0	1581.4	1578.5	1580.0	1575.6	1559.6	1553.8	1553.8	1556.7	1546.5
17.5°	1564.0	1558.2	1564.0	1562.5	1561.1	1558.2	1543.6	1537.8	1536.3	1537.8	1530.5
20°	1543.6	1539.3	1543.6	1542.2	1542.2	1536.3	1521.8	1514.5	1514.5	1514.5	1507.3
22.5°	1511.6	1507.3	1511.6	1514.5	1514.5	1513.1	1500.0	1489.8	1486.9	1486.9	1478.2
25°	1475.3	1470.9	1475.3	1475.3	1473.8	1475.3	1470.9	1465.1	1460.8	1456.4	1447.7
27.5°	1440.4	1437.5	1440.4	1437.5	1440.4	1436.1	1434.6	1433.2	1427.3	1423.0	1411.3
30°	1405.5	1402.6	1405.5	1402.6	1399.7	1396.8	1389.5	1386.6	1392.5	1389.5	1370.7
32.5°	1361.9	1359.0	1361.9	1361.9	1359.0	1359.0	1347.4	1343.0	1344.5	1353.2	1335.8
35°	1316.9	1312.5	1316.9	1315.4	1316.9	1312.5	1305.2	1303.8	1298.0	1308.1	1295.1
37.5°	1264.5	1260.2	1264.5	1264.5	1264.5	1267.5	1261.6	1257.3	1248.6	1261.6	1251.5
40°	1210.8	1205.0	1210.8	1209.3	1210.8	1213.7	1210.8	1207.9	1199.1	1209.3	1200.6
42.5°	1149.7	1148.3	1149.7	1151.2	1151.2	1157.0	1161.3	1155.5	1152.6	1145.4	1151.2
45°	1084.3	1081.4	1084.3	1087.2	1088.7	1091.6	1104.7	1104.7	1100.3	1088.7	1097.4
47.5°	1014.5	1007.3	1014.5	1023.3	1023.3	1027.6	1040.7	1050.9	1043.6	1029.1	1033.4
50°	940.4	941.9	940.4	946.2	946.2	962.2	972.4	982.6	989.8	972.4	952.0
52.5°	867.7	866.3	867.7	872.1	877.9	885.2	902.6	912.8	924.4	914.3	882.3
55°	795.1	798.0	795.1	796.5	799.4	803.8	829.9	840.1	861.9	848.8	815.4
57.5°	722.4	718.0	722.4	725.3	726.8	731.1	752.9	771.8	784.9	786.3	745.6
60°	638.1	632.3	638.1	651.2	654.1	657.0	677.3	694.8	706.4	710.8	668.6
62.5°	564.0	553.8	564.0	572.7	578.5	585.8	600.3	626.5	636.6	638.1	578.5
65°	485.5	481.1	485.5	502.9	504.4	513.1	529.1	548.0	569.8	566.9	481.1
67.5°	414.2	414.2	414.2	425.9	434.6	439.0	459.3	468.0	495.6	498.6	401.2
70°	348.8	347.4	348.8	357.6	363.4	373.5	392.4	402.6	424.4	431.7	325.6
72.5°	286.3	284.9	286.3	293.6	299.4	308.1	324.1	335.8	354.7	363.4	252.9
75°	231.1	228.2	231.1	236.9	235.5	247.1	260.2	271.8	289.2	295.1	187.5
77.5°	177.3	177.3	177.3	183.1	183.1	194.8	200.6	215.1	225.3	234.0	138.1
80°	132.3	130.8	132.3	133.7	133.7	139.5	149.7	159.9	168.6	168.6	94.5
82.5°	93.0	90.1	93.0	93.0	93.0	95.9	101.7	104.7	110.5	114.8	59.6
85°	58.1	58.1	58.1	59.6	58.1	61.0	62.5	65.4	65.4	62.5	36.3
87.5°	37.8	36.3	37.8	36.3	36.3	34.9	34.9	34.9	33.4	32.0	20.3
90°	5.5	5.5	5.5	5.5	5.5	7.4	9.8	11.0	9.5	6.4	4.1
92.5°	22.1	17.7	22.1	26.6	27.6	39.1	54.6	62.3	54.7	39.5	28.1
95°	77.2	64.0	77.2	90.6	93.9	123.3	162.5	182.1	153.8	97.2	54.7
97.5°	185.1	159.7	185.1	210.5	216.8	235.4	260.1	272.5	225.3	130.9	60.1
100°	266.7	236.4	266.7	296.8	304.4	303.0	301.2	300.3	248.0	143.2	64.6
102.5°	346.9	321.0	346.9	372.8	379.3	355.5	323.9	308.1	255.0	148.8	69.2
105°	449.2	435.3	449.2	463.1	466.6	413.5	342.6	307.3	255.8	153.0	75.9
107.5°	516.2	519.6	516.2	512.9	512.0	438.0	339.2	289.8	244.5	153.8	85.8
110°	541.8	556.3	541.8	527.2	523.6	440.9	330.5	275.3	234.4	152.6	91.3



TEST NUMBER: P933989

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	544.0	566.3	544.0	521.7	516.2	431.5	318.5	262.0	225.6	152.6	98.0
115°	529.6	560.5	529.6	498.7	491.0	409.4	300.6	246.1	215.4	154.1	108.0
117.5°	499.0	533.2	499.0	464.7	456.2	382.6	284.4	235.3	209.1	156.9	117.7
120°	474.4	507.7	474.4	441.2	432.9	365.5	275.8	230.9	207.1	159.3	123.5
122.5°	450.4	483.1	450.4	417.6	409.4	348.7	267.9	227.5	205.9	162.6	130.1
125°	416.1	446.3	416.1	386.0	378.4	326.9	258.2	223.9	205.0	167.2	138.8
127.5°	385.4	410.9	385.4	359.9	353.5	309.3	250.3	220.8	204.5	171.6	147.0
130°	367.2	390.7	367.2	343.6	337.7	298.4	245.9	219.7	204.7	174.9	152.5
132.5°	350.7	371.8	350.7	329.6	324.3	289.1	242.2	218.7	205.0	177.6	157.1
135°	328.1	346.3	328.1	310.0	305.4	276.0	236.6	217.0	204.8	180.5	162.3
137.5°	310.1	324.9	310.1	295.2	291.5	266.6	233.3	216.7	206.1	184.9	169.0
140°	297.6	311.5	297.6	283.7	280.2	258.7	229.9	215.6	206.3	187.6	173.5
142.5°	287.3	299.3	287.3	275.4	272.4	253.5	228.2	215.6	207.0	189.7	176.8
145°	271.9	281.0	271.9	262.8	260.6	245.1	224.4	214.1	207.0	192.7	182.0
147.5°	260.1	267.5	260.1	252.5	250.7	238.5	222.3	214.1	208.4	197.0	188.4
150°	252.6	258.7	252.6	246.5	245.0	234.7	221.0	214.1	209.2	199.2	191.8
152.5°	246.2	250.9	246.2	241.7	240.5	231.7	220.0	214.1	209.7	200.7	193.9
155°	238.9	242.0	238.9	235.9	235.1	228.1	218.8	214.1	210.8	203.9	198.7
157.5°	233.1	235.3	233.1	231.0	230.4	225.0	217.7	214.1	211.8	207.1	203.5
160°	229.7	230.9	229.7	228.4	228.1	223.5	217.2	214.1	212.3	208.5	205.7
162.5°	227.4	228.6	227.4	226.3	226.0	222.0	216.8	214.1	212.8	210.1	208.0
165°	224.1	225.4	224.1	222.9	222.6	219.8	216.0	214.1	213.6	212.3	211.3
167.5°	221.8	222.3	221.8	221.2	221.1	219.3	216.9	215.6	215.1	214.1	213.3
170°	221.1	221.1	221.1	221.1	221.1	219.3	216.9	215.6	215.6	215.5	215.4
172.5°	219.4	219.0	219.4	219.9	220.0	218.5	216.6	215.6	215.6	215.6	215.6
175°	218.4	218.4	218.4	218.4	218.4	217.4	216.2	215.6	215.9	216.5	217.0
177.5°	217.4	217.0	217.4	218.0	218.1	217.3	216.4	215.9	216.1	216.6	217.0
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



TEST NUMBER: P933989

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1558.2	1549.4	1549.4	1534.9	1529.1	1524.7	1517.5	1495.7	1489.8	1484.0	1492.7
5°	1571.2	1555.2	1543.6	1517.5	1495.7	1486.9	1459.3	1407.0	1372.1	1345.9	1331.4
7.5°	1574.1	1553.8	1532.0	1491.3	1439.0	1415.7	1331.4	1235.5	1209.3	1186.1	1171.5
10°	1571.2	1548.0	1517.5	1456.4	1332.9	1292.2	1207.9	1145.4	1129.4	1125.0	1129.4
12.5°	1561.1	1539.3	1497.1	1395.4	1222.4	1194.8	1145.4	1109.0	1106.1	1113.4	1152.6
15°	1543.6	1523.3	1473.8	1314.0	1161.3	1141.0	1106.1	1093.0	1109.0	1159.9	1277.6
17.5°	1526.2	1502.9	1441.9	1234.0	1114.8	1100.3	1075.6	1101.8	1191.9	1260.2	1299.4
20°	1502.9	1475.3	1405.5	1175.9	1081.4	1068.3	1056.7	1174.4	1242.7	1267.5	1289.3
22.5°	1475.3	1446.2	1356.1	1135.2	1046.5	1036.3	1043.6	1215.1	1242.7	1260.2	1279.1
25°	1439.0	1414.3	1298.0	1103.2	1018.9	1007.3	1034.9	1210.8	1226.8	1231.1	1268.9
27.5°	1405.5	1373.6	1236.9	1074.1	985.5	981.1	1042.2	1191.9	1203.5	1207.9	1248.6
30°	1364.8	1316.9	1168.6	1043.6	950.6	949.1	1043.6	1168.6	1165.7	1177.3	1218.0
32.5°	1322.7	1232.6	1091.6	1005.8	917.2	915.7	1033.4	1133.7	1130.8	1146.8	1177.3
35°	1283.4	1167.2	986.9	962.2	875.0	876.5	1008.7	1093.0	1094.5	1109.0	1127.9
37.5°	1242.7	1110.5	872.1	914.3	834.3	834.3	975.3	1055.2	1052.3	1056.7	1082.9
40°	1194.8	1021.8	770.4	851.8	796.5	792.2	934.6	1014.5	1004.4	1002.9	1039.3
42.5°	1143.9	924.4	694.8	768.9	752.9	747.1	885.2	965.1	946.2	950.6	997.1
45°	1088.7	898.3	636.6	649.7	707.9	703.5	831.4	908.4	895.4	907.0	954.9
47.5°	1033.4	845.9	617.7	539.2	659.9	658.4	771.8	853.2	845.9	857.6	908.4
50°	957.9	787.8	616.3	462.2	606.1	611.9	700.6	799.4	799.4	809.6	863.4
52.5°	860.5	716.6	559.6	418.6	543.6	561.1	638.1	752.9	755.8	766.0	814.0
55°	771.8	642.4	518.9	385.2	469.5	507.3	577.0	704.9	710.8	720.9	764.5
57.5°	690.4	534.9	510.2	345.9	401.2	437.5	523.3	658.4	661.3	670.1	712.2
60°	603.2	386.6	468.0	303.8	341.6	369.2	473.8	603.2	613.4	619.2	655.5
62.5°	504.4	280.5	424.4	274.7	312.5	318.3	433.1	550.9	564.0	568.3	590.1
65°	359.0	235.5	360.5	250.0	282.0	283.4	389.5	497.1	508.7	516.0	532.0
67.5°	242.7	191.9	274.7	226.7	258.7	260.2	347.4	434.6	450.6	456.4	466.6
70°	168.6	127.9	203.5	202.0	232.6	235.5	302.3	377.9	392.4	396.8	402.6
72.5°	123.5	103.2	168.6	181.7	204.9	207.9	255.8	314.0	328.5	332.9	335.8
75°	94.5	109.0	136.6	158.4	174.4	175.9	209.3	255.8	266.0	268.9	270.4
77.5°	75.6	101.7	100.3	127.9	142.4	139.5	164.2	197.7	206.4	206.4	206.4
80°	56.7	79.9	75.6	91.6	104.7	101.7	117.7	141.0	143.9	146.8	145.4
82.5°	42.2	50.9	50.9	58.1	69.8	66.9	78.5	91.6	91.6	91.6	94.5
85°	26.2	29.1	23.3	30.5	39.2	37.8	43.6	49.4	50.9	50.9	48.0
87.5°	16.0	13.1	7.3	11.6	17.4	17.4	20.3	21.8	20.3	20.3	20.3
90°	3.8	2.6	1.5	2.6	3.8	4.1	6.4	9.5	11.0	9.8	7.4
92.5°	25.6	15.7	5.8	15.7	25.6	28.1	39.5	54.7	62.3	54.6	39.1
95°	50.2	32.1	14.0	32.1	50.2	54.7	97.2	153.8	182.1	162.5	123.3
97.5°	56.1	40.1	24.1	40.1	56.1	60.1	130.9	225.3	272.5	260.1	235.4
100°	61.0	46.5	32.1	46.5	61.0	64.6	143.2	248.0	300.3	301.2	303.0
102.5°	65.8	52.3	38.8	52.3	65.8	69.2	148.8	255.0	308.1	323.9	355.5
105°	73.0	61.5	50.1	61.5	73.0	75.9	153.0	255.8	307.3	342.6	413.5
107.5°	83.0	72.4	61.7	72.4	83.0	85.8	153.8	244.5	289.8	339.2	438.0
110°	88.9	79.3	69.6	79.3	88.9	91.3	152.6	234.4	275.3	330.5	440.9



TEST NUMBER: P933989

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	95.6	86.5	77.3	86.5	95.6	98.0	152.6	225.6	262.0	318.5	431.5
115°	105.9	97.5	89.0	97.5	105.9	108.0	154.1	215.4	246.1	300.6	409.4
117.5°	115.8	108.1	100.5	108.1	115.8	117.7	156.9	209.1	235.3	284.4	382.6
120°	121.6	114.4	107.2	114.4	121.6	123.5	159.3	207.1	230.9	275.8	365.5
122.5°	128.3	121.0	113.7	121.0	128.3	130.1	162.6	205.9	227.5	267.9	348.7
125°	137.1	130.4	123.7	130.4	137.1	138.8	167.2	205.0	223.9	258.2	326.9
127.5°	145.4	138.6	131.9	138.6	145.4	147.0	171.6	204.5	220.8	250.3	309.3
130°	150.7	143.5	136.2	143.5	150.7	152.5	174.9	204.7	219.7	245.9	298.4
132.5°	155.2	148.1	140.8	148.1	155.2	157.1	177.6	205.0	218.7	242.2	289.1
135°	160.7	154.1	147.5	154.1	160.7	162.3	180.5	204.8	217.0	236.6	276.0
137.5°	167.3	160.9	154.4	160.9	167.3	169.0	184.9	206.1	216.7	233.3	266.6
140°	172.0	166.0	160.0	166.0	172.0	173.5	187.6	206.3	215.6	229.9	258.7
142.5°	175.5	169.9	164.3	169.9	175.5	176.8	189.7	207.0	215.6	228.2	253.5
145°	180.7	175.9	171.0	175.9	180.7	182.0	192.7	207.0	214.1	224.4	245.1
147.5°	187.2	182.5	177.7	182.5	187.2	188.4	197.0	208.4	214.1	222.3	238.5
150°	190.7	186.3	182.1	186.3	190.7	191.8	199.2	209.2	214.1	221.0	234.7
152.5°	193.1	189.8	186.6	189.8	193.1	193.9	200.7	209.7	214.1	220.0	231.7
155°	198.2	195.7	193.3	195.7	198.2	198.7	203.9	210.8	214.1	218.8	228.1
157.5°	202.9	200.6	198.3	200.6	202.9	203.5	207.1	211.8	214.1	217.7	225.0
160°	205.2	203.5	201.6	203.5	205.2	205.7	208.5	212.3	214.1	217.2	223.5
162.5°	207.7	206.3	204.9	206.3	207.7	208.0	210.1	212.8	214.1	216.8	222.0
165°	211.0	209.8	208.6	209.8	211.0	211.3	212.3	213.6	214.1	216.0	219.8
167.5°	213.1	212.5	211.9	212.5	213.1	213.3	214.1	215.1	215.6	216.9	219.3
170°	215.3	214.7	214.1	214.7	215.3	215.4	215.5	215.6	215.6	216.9	219.3
172.5°	215.6	215.4	215.3	215.4	215.6	215.6	215.6	215.6	215.6	216.6	218.5
175°	217.0	217.0	217.0	217.0	217.0	217.0	216.5	215.9	215.6	216.2	217.4
177.5°	217.0	217.0	217.0	217.0	217.0	217.0	216.6	216.1	215.9	216.4	217.3
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



TEST NUMBER: P933989

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1482.6	1478.2	1484.0	1468.0	1484.0	1478.2	1482.6	1492.7	1484.0	1489.8	1495.7
5°	1300.9	1293.6	1270.4	1251.5	1270.4	1293.6	1300.9	1331.4	1345.9	1372.1	1407.0
7.5°	1162.8	1157.0	1151.2	1139.5	1151.2	1157.0	1162.8	1171.5	1186.1	1209.3	1235.5
10°	1132.3	1133.7	1142.5	1141.0	1142.5	1133.7	1132.3	1129.4	1125.0	1129.4	1145.4
12.5°	1210.8	1223.8	1271.8	1268.9	1271.8	1223.8	1210.8	1152.6	1113.4	1106.1	1109.0
15°	1300.9	1305.2	1315.4	1316.9	1315.4	1305.2	1300.9	1277.6	1159.9	1109.0	1093.0
17.5°	1309.6	1311.1	1318.3	1318.3	1318.3	1311.1	1309.6	1299.4	1260.2	1191.9	1101.8
20°	1302.3	1305.2	1319.8	1322.7	1319.8	1305.2	1302.3	1289.3	1267.5	1242.7	1174.4
22.5°	1299.4	1305.2	1316.9	1315.4	1316.9	1305.2	1299.4	1279.1	1260.2	1242.7	1215.1
25°	1284.9	1284.9	1286.3	1287.8	1286.3	1284.9	1284.9	1268.9	1231.1	1226.8	1210.8
27.5°	1254.4	1257.3	1266.0	1264.5	1266.0	1257.3	1254.4	1248.6	1207.9	1203.5	1191.9
30°	1226.8	1223.8	1216.6	1210.8	1216.6	1223.8	1226.8	1218.0	1177.3	1165.7	1168.6
32.5°	1180.2	1173.0	1165.7	1161.3	1165.7	1173.0	1180.2	1177.3	1146.8	1130.8	1133.7
35°	1125.0	1126.5	1125.0	1120.6	1125.0	1126.5	1125.0	1127.9	1109.0	1094.5	1093.0
37.5°	1085.8	1088.7	1087.2	1081.4	1087.2	1088.7	1085.8	1082.9	1056.7	1052.3	1055.2
40°	1045.1	1046.5	1045.1	1040.7	1045.1	1046.5	1045.1	1039.3	1002.9	1004.4	1014.5
42.5°	1005.8	1004.4	1000.0	997.1	1000.0	1004.4	1005.8	997.1	950.6	946.2	965.1
45°	960.8	962.2	953.5	949.1	953.5	962.2	960.8	954.9	907.0	895.4	908.4
47.5°	915.7	915.7	908.4	904.1	908.4	915.7	915.7	908.4	857.6	845.9	853.2
50°	867.7	866.3	856.1	854.7	856.1	866.3	867.7	863.4	809.6	799.4	799.4
52.5°	812.5	812.5	814.0	816.9	814.0	812.5	812.5	814.0	766.0	755.8	752.9
55°	764.5	766.0	776.2	779.1	776.2	766.0	764.5	764.5	720.9	710.8	704.9
57.5°	715.1	715.1	722.4	722.4	722.4	715.1	715.1	712.2	670.1	661.3	658.4
60°	658.4	661.3	667.2	665.7	667.2	661.3	658.4	655.5	619.2	613.4	603.2
62.5°	598.8	601.7	603.2	600.3	603.2	601.7	598.8	590.1	568.3	564.0	550.9
65°	536.3	539.2	540.7	537.8	540.7	539.2	536.3	532.0	516.0	508.7	497.1
67.5°	472.4	470.9	469.5	475.3	469.5	470.9	472.4	466.6	456.4	450.6	434.6
70°	407.0	407.0	405.5	408.4	405.5	407.0	407.0	402.6	396.8	392.4	377.9
72.5°	337.2	335.8	341.6	337.2	341.6	335.8	337.2	335.8	332.9	328.5	314.0
75°	268.9	271.8	268.9	273.3	268.9	271.8	268.9	270.4	268.9	266.0	255.8
77.5°	204.9	207.9	204.9	204.9	204.9	207.9	204.9	206.4	206.4	206.4	197.7
80°	145.4	143.9	143.9	142.4	143.9	143.9	145.4	145.4	146.8	143.9	141.0
82.5°	93.0	91.6	91.6	94.5	91.6	91.6	93.0	94.5	91.6	91.6	91.6
85°	50.9	52.3	49.4	49.4	49.4	52.3	50.9	48.0	50.9	50.9	49.4
87.5°	18.9	17.4	17.4	17.4	17.4	17.4	18.9	20.3	20.3	20.3	21.8
90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	9.8	11.0	9.5
92.5°	27.6	26.6	22.1	17.7	22.1	26.6	27.6	39.1	54.6	62.3	54.7
95°	93.9	90.6	77.2	64.0	77.2	90.6	93.9	123.3	162.5	182.1	153.8
97.5°	216.8	210.5	185.1	159.7	185.1	210.5	216.8	235.4	260.1	272.5	225.3
100°	304.4	296.8	266.7	236.4	266.7	296.8	304.4	303.0	301.2	300.3	248.0
102.5°	379.3	372.8	346.9	321.0	346.9	372.8	379.3	355.5	323.9	308.1	255.0
105°	466.6	463.1	449.2	435.3	449.2	463.1	466.6	413.5	342.6	307.3	255.8
107.5°	512.0	512.9	516.2	519.6	516.2	512.9	512.0	438.0	339.2	289.8	244.5
110°	523.6	527.2	541.8	556.3	541.8	527.2	523.6	440.9	330.5	275.3	234.4



TEST NUMBER: P933989

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	516.2	521.7	544.0	566.3	544.0	521.7	516.2	431.5	318.5	262.0	225.6
115°	491.0	498.7	529.6	560.5	529.6	498.7	491.0	409.4	300.6	246.1	215.4
117.5°	456.2	464.7	499.0	533.2	499.0	464.7	456.2	382.6	284.4	235.3	209.1
120°	432.9	441.2	474.4	507.7	474.4	441.2	432.9	365.5	275.8	230.9	207.1
122.5°	409.4	417.6	450.4	483.1	450.4	417.6	409.4	348.7	267.9	227.5	205.9
125°	378.4	386.0	416.1	446.3	416.1	386.0	378.4	326.9	258.2	223.9	205.0
127.5°	353.5	359.9	385.4	410.9	385.4	359.9	353.5	309.3	250.3	220.8	204.5
130°	337.7	343.6	367.2	390.7	367.2	343.6	337.7	298.4	245.9	219.7	204.7
132.5°	324.3	329.6	350.7	371.8	350.7	329.6	324.3	289.1	242.2	218.7	205.0
135°	305.4	310.0	328.1	346.3	328.1	310.0	305.4	276.0	236.6	217.0	204.8
137.5°	291.5	295.2	310.1	324.9	310.1	295.2	291.5	266.6	233.3	216.7	206.1
140°	280.2	283.7	297.6	311.5	297.6	283.7	280.2	258.7	229.9	215.6	206.3
142.5°	272.4	275.4	287.3	299.3	287.3	275.4	272.4	253.5	228.2	215.6	207.0
145°	260.6	262.8	271.9	281.0	271.9	262.8	260.6	245.1	224.4	214.1	207.0
147.5°	250.7	252.5	260.1	267.5	260.1	252.5	250.7	238.5	222.3	214.1	208.4
150°	245.0	246.5	252.6	258.7	252.6	246.5	245.0	234.7	221.0	214.1	209.2
152.5°	240.5	241.7	246.2	250.9	246.2	241.7	240.5	231.7	220.0	214.1	209.7
155°	235.1	235.9	238.9	242.0	238.9	235.9	235.1	228.1	218.8	214.1	210.8
157.5°	230.4	231.0	233.1	235.3	233.1	231.0	230.4	225.0	217.7	214.1	211.8
160°	228.1	228.4	229.7	230.9	229.7	228.4	228.1	223.5	217.2	214.1	212.3
162.5°	226.0	226.3	227.4	228.6	227.4	226.3	226.0	222.0	216.8	214.1	212.8
165°	222.6	222.9	224.1	225.4	224.1	222.9	222.6	219.8	216.0	214.1	213.6
167.5°	221.1	221.2	221.8	222.3	221.8	221.2	221.1	219.3	216.9	215.6	215.1
170°	221.1	221.1	221.1	221.1	221.1	221.1	221.1	219.3	216.9	215.6	215.6
172.5°	220.0	219.9	219.4	219.0	219.4	219.9	220.0	218.5	216.6	215.6	215.6
175°	218.4	218.4	218.4	218.4	218.4	218.4	218.4	217.4	216.2	215.6	215.9
177.5°	218.1	218.0	217.4	217.0	217.4	218.0	218.1	217.3	216.4	215.9	216.1
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1517.5	1524.7	1529.1	1534.9	1549.4
5°	1459.3	1486.9	1495.7	1517.5	1543.6
7.5°	1331.4	1415.7	1439.0	1491.3	1532.0
10°	1207.9	1292.2	1332.9	1456.4	1517.5
12.5°	1145.4	1194.8	1222.4	1395.4	1497.1
15°	1106.1	1141.0	1161.3	1314.0	1473.8
17.5°	1075.6	1100.3	1114.8	1234.0	1441.9
20°	1056.7	1068.3	1081.4	1175.9	1405.5
22.5°	1043.6	1036.3	1046.5	1135.2	1356.1
25°	1034.9	1007.3	1018.9	1103.2	1298.0
27.5°	1042.2	981.1	985.5	1074.1	1236.9
30°	1043.6	949.1	950.6	1043.6	1168.6
32.5°	1033.4	915.7	917.2	1005.8	1091.6
35°	1008.7	876.5	875.0	962.2	986.9
37.5°	975.3	834.3	834.3	914.3	872.1
40°	934.6	792.2	796.5	851.8	770.4
42.5°	885.2	747.1	752.9	768.9	694.8
45°	831.4	703.5	707.9	649.7	636.6
47.5°	771.8	658.4	659.9	539.2	617.7
50°	700.6	611.9	606.1	462.2	616.3
52.5°	638.1	561.1	543.6	418.6	559.6
55°	577.0	507.3	469.5	385.2	518.9
57.5°	523.3	437.5	401.2	345.9	510.2
60°	473.8	369.2	341.6	303.8	468.0
62.5°	433.1	318.3	312.5	274.7	424.4
65°	389.5	283.4	282.0	250.0	360.5
67.5°	347.4	260.2	258.7	226.7	274.7
70°	302.3	235.5	232.6	202.0	203.5
72.5°	255.8	207.9	204.9	181.7	168.6
75°	209.3	175.9	174.4	158.4	136.6
77.5°	164.2	139.5	142.4	127.9	100.3
80°	117.7	101.7	104.7	91.6	75.6
82.5°	78.5	66.9	69.8	58.1	50.9
85°	43.6	37.8	39.2	30.5	23.3
87.5°	20.3	17.4	17.4	11.6	7.3
90°	6.4	4.1	3.8	2.6	1.5
92.5°	39.5	28.1	25.6	15.7	5.8
95°	97.2	54.7	50.2	32.1	14.0
97.5°	130.9	60.1	56.1	40.1	24.1
100°	143.2	64.6	61.0	46.5	32.1
102.5°	148.8	69.2	65.8	52.3	38.8
105°	153.0	75.9	73.0	61.5	50.1
107.5°	153.8	85.8	83.0	72.4	61.7
110°	152.6	91.3	88.9	79.3	69.6



TEST NUMBER: P933989

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	152.6	98.0	95.6	86.5	77.3
115°	154.1	108.0	105.9	97.5	89.0
117.5°	156.9	117.7	115.8	108.1	100.5
120°	159.3	123.5	121.6	114.4	107.2
122.5°	162.6	130.1	128.3	121.0	113.7
125°	167.2	138.8	137.1	130.4	123.7
127.5°	171.6	147.0	145.4	138.6	131.9
130°	174.9	152.5	150.7	143.5	136.2
132.5°	177.6	157.1	155.2	148.1	140.8
135°	180.5	162.3	160.7	154.1	147.5
137.5°	184.9	169.0	167.3	160.9	154.4
140°	187.6	173.5	172.0	166.0	160.0
142.5°	189.7	176.8	175.5	169.9	164.3
145°	192.7	182.0	180.7	175.9	171.0
147.5°	197.0	188.4	187.2	182.5	177.7
150°	199.2	191.8	190.7	186.3	182.1
152.5°	200.7	193.9	193.1	189.8	186.6
155°	203.9	198.7	198.2	195.7	193.3
157.5°	207.1	203.5	202.9	200.6	198.3
160°	208.5	205.7	205.2	203.5	201.6
162.5°	210.1	208.0	207.7	206.3	204.9
165°	212.3	211.3	211.0	209.8	208.6
167.5°	214.1	213.3	213.1	212.5	211.9
170°	215.5	215.4	215.3	214.7	214.1
172.5°	215.6	215.6	215.6	215.4	215.3
175°	216.5	217.0	217.0	217.0	217.0
177.5°	216.6	217.0	217.0	217.0	217.0
180°	217.0	217.0	217.0	217.0	217.0



TEST NUMBER: P933989
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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	14.59	15.72	15.31	16.46	17.34	17.42	18.54	18.14	19.28	20.17
	3H	15.09	16.10	15.82	16.85	17.77	18.78	19.79	19.51	20.54	21.46
	4H	15.29	16.25	16.04	17.01	17.93	19.23	20.19	19.99	20.95	21.88
	6H	15.42	16.30	16.19	17.07	18.02	19.53	20.41	20.30	21.18	22.12
	8H	15.43	16.27	16.21	17.06	18.00	19.61	20.45	20.39	21.24	22.18
	12H	15.41	16.21	16.19	17.00	17.97	19.66	20.46	20.44	21.24	22.21
4H	2H	15.65	16.61	16.41	17.37	18.30	17.86	18.81	18.61	19.57	20.50
	3H	16.71	17.50	17.47	18.30	19.24	19.38	20.18	20.15	20.98	21.92
	4H	16.99	17.72	17.78	18.51	19.49	19.92	20.65	20.71	21.44	22.42
	6H	17.13	17.76	17.93	18.58	19.56	20.30	20.93	21.10	21.75	22.73
	8H	17.14	17.73	17.95	18.55	19.54	20.41	21.00	21.22	21.82	22.81
	12H	17.12	17.65	17.95	18.49	19.49	20.48	21.01	21.31	21.85	22.84
8H	4H	17.47	18.05	18.27	18.87	19.86	20.07	20.65	20.87	21.47	22.46
	6H	17.74	18.22	18.57	19.08	20.08	20.51	21.00	21.35	21.86	22.85
	8H	17.78	18.21	18.63	19.07	20.08	20.67	21.10	21.51	21.95	22.96
	12H	17.78	18.16	18.63	19.01	20.07	20.78	21.16	21.63	22.00	23.07
12H	4H	17.49	18.01	18.31	18.85	19.85	20.05	20.57	20.87	21.41	22.41
	6H	17.80	18.23	18.65	19.09	20.10	20.51	20.95	21.36	21.80	22.81
	8H	17.88	18.26	18.73	19.11	20.17	20.69	21.07	21.54	21.91	22.98