

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: P933987

Luminaire Tested: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

**Test Information**

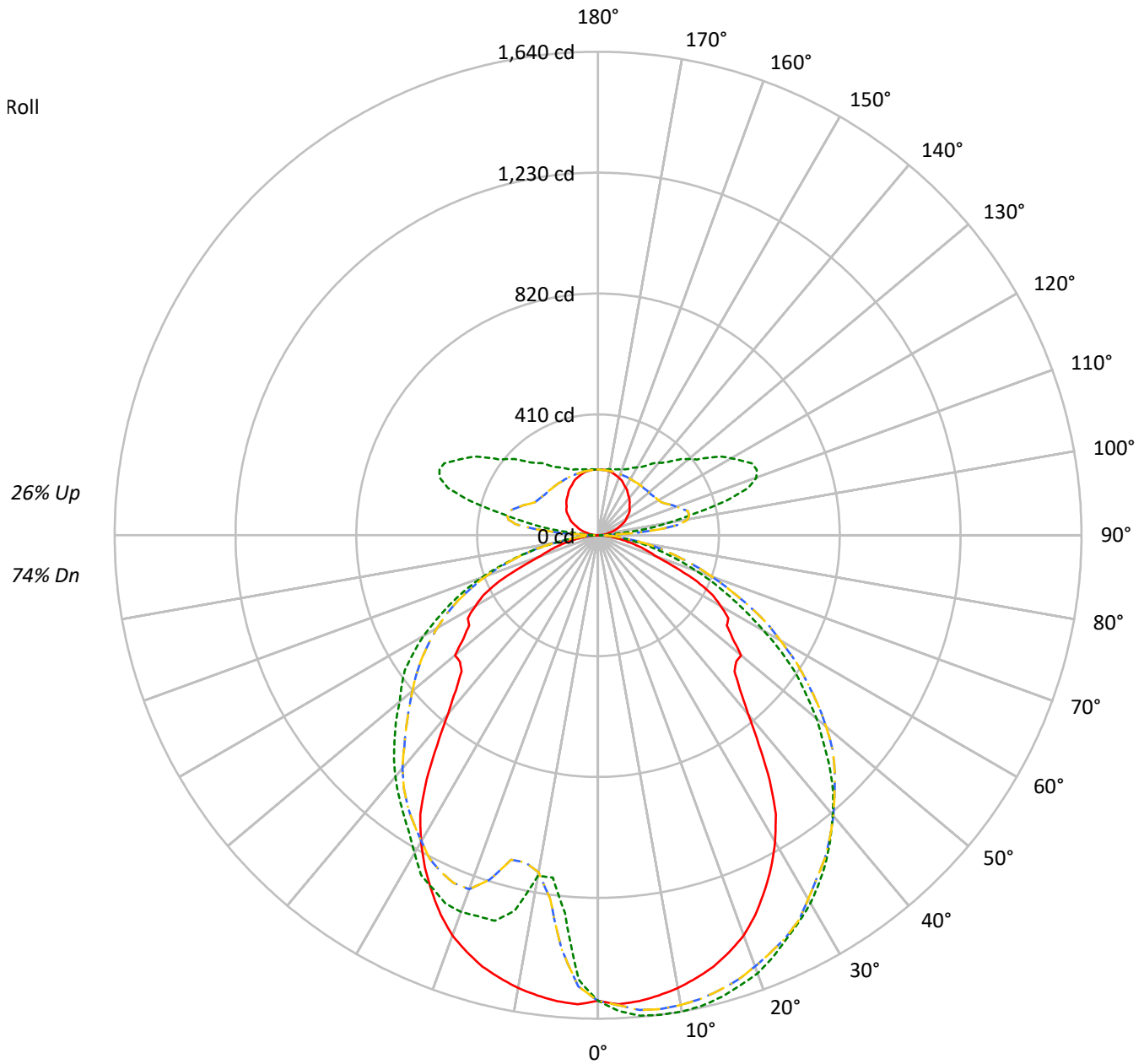
Test Method: LM-79-2019  
Report Number: P933987  
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5540.7 lumens  
Efficiency: N/A  
Efficacy: 123.1 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°	9769	9769	9769	9769
5°	9838	9861	9838	7754
10°	9769	9714	9769	6945
15°	9659	9503	9659	7936
20°	9453	9254	9453	7952
25°	9036	8890	9036	7784
30°	8499	8588	8499	7414
35°	7572	8207	7572	7007
40°	6306	7757	6306	6700
45°	5631	7231	5631	6347
50°	5978	6603	5978	5992
55°	5619	5927	5619	5787
60°	5785	5034	5785	5301
65°	5236	4161	5236	4652
70°	3618	3317	3618	3899
75°	3159	2452	3159	2936
80°	2529	1621	2529	1765
85°	1425	859	1425	730

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8636 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	2.6
10°-20°	404.7	7.3
20°-30°	625.6	11.3
30°-40°	746.9	13.5
40°-50°	751.3	13.6
50°-60°	653.7	11.8
60°-70°	463.5	8.4
70°-80°	245.2	4.4
80°-90°	61.9	1.1
90°-100°	108.7	2.0
100°-110°	285.7	5.2
110°-120°	296.3	5.3
120°-130°	237.7	4.3
130°-140°	186.5	3.4
140°-150°	143.1	2.6
150°-160°	103.1	1.9
160°-170°	63.1	1.1
170°-180°	21.3	0.4
0°-30°	1172.9	21.2
0°-40°	1919.8	34.6
0°-60°	3324.7	60.0
0°-90°	4095.3	73.9
90°-120°	690.7	12.5
90°-150°	1257.9	22.7
90°-180°	1445.0	26.1
0°-180°	5540.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1579	1579	1579	1579	1579	
5°	1587	1636	1587	1286	1587	151
15°	1515	1621	1515	1354	1515	426
25°	1334	1512	1334	1324	1334	613
35°	1014	1349	1014	1152	1014	628
45°	654	1112	654	976	654	524
55°	533	820	533	801	533	490
65°	370	494	370	553	370	354
75°	140	235	140	281	140	148
85°	24	60	24	51	24	32
90°	2	6	2	6	2	2
95°	14	66	14	66	14	16
105°	52	447	52	447	52	55
115°	91	576	91	576	91	90
125°	127	459	127	459	127	113
135°	152	356	152	356	152	117
145°	176	289	176	289	176	110
155°	199	249	199	249	199	91
165°	214	232	214	232	214	61
175°	223	224	223	224	223	21
180°	223	223	223	223	223	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2
2.5°	1592.6	1592.6	1601.6	1604.6	1604.6	1600.1	1595.6	1600.1	1613.5	1618.0	1616.5
5°	1586.6	1598.6	1615.0	1618.0	1621.0	1619.5	1616.5	1619.5	1634.4	1637.4	1638.9
7.5°	1574.7	1597.1	1618.0	1622.5	1627.0	1622.5	1621.0	1624.0	1638.9	1641.9	1641.9
10°	1559.7	1591.1	1615.0	1618.0	1622.5	1618.0	1618.0	1624.0	1638.9	1641.9	1643.4
12.5°	1538.8	1582.1	1604.6	1607.5	1613.5	1612.0	1610.5	1616.5	1631.4	1634.4	1634.4
15°	1514.9	1565.7	1586.6	1589.6	1600.1	1597.1	1597.1	1603.1	1619.5	1624.0	1622.5
17.5°	1482.0	1544.8	1568.7	1573.2	1580.7	1579.2	1580.7	1586.6	1601.6	1604.6	1606.0
20°	1444.7	1516.4	1544.8	1549.3	1556.7	1556.7	1556.7	1564.2	1579.2	1585.1	1585.1
22.5°	1393.9	1486.5	1516.4	1519.4	1528.4	1528.4	1531.4	1541.8	1555.3	1556.7	1556.7
25°	1334.1	1453.7	1479.1	1488.0	1497.0	1501.5	1506.0	1511.9	1516.4	1514.9	1516.4
27.5°	1271.4	1411.8	1444.7	1450.7	1462.6	1467.1	1473.1	1474.6	1476.1	1480.6	1477.6
30°	1201.2	1353.6	1402.9	1408.8	1428.3	1431.3	1425.3	1428.3	1435.7	1438.7	1441.7
32.5°	1122.0	1266.9	1359.5	1373.0	1390.9	1382.0	1380.5	1384.9	1396.9	1396.9	1399.9
35°	1014.4	1199.7	1319.2	1331.2	1344.6	1334.1	1340.1	1341.6	1349.1	1353.6	1352.1
37.5°	896.4	1141.4	1277.4	1286.3	1296.8	1283.3	1292.3	1296.8	1302.8	1299.8	1299.8
40°	791.8	1050.3	1228.1	1234.0	1243.0	1232.6	1241.5	1244.5	1247.5	1244.5	1243.0
42.5°	714.1	950.2	1175.8	1183.2	1177.3	1184.7	1187.7	1193.7	1189.2	1183.2	1183.2
45°	654.4	923.3	1119.0	1128.0	1119.0	1131.0	1135.4	1135.4	1122.0	1119.0	1117.5
47.5°	635.0	869.5	1062.2	1062.2	1057.8	1072.7	1080.2	1069.7	1056.3	1051.8	1051.8
50°	633.5	809.7	984.5	978.6	999.5	1017.4	1009.9	999.5	989.0	972.6	972.6
52.5°	575.2	736.5	884.4	906.9	939.7	950.2	938.2	927.8	909.8	902.4	896.4
55°	533.4	660.3	793.3	838.1	872.5	885.9	863.5	853.1	826.2	821.7	818.7
57.5°	524.4	549.8	709.6	766.4	808.3	806.8	793.3	773.9	751.5	747.0	745.5
60°	481.1	397.4	620.0	687.2	730.6	726.1	714.1	696.2	675.3	672.3	669.3
62.5°	436.2	288.3	518.4	594.6	655.9	654.4	643.9	617.0	602.1	594.6	588.6
65°	370.5	242.0	369.0	494.5	582.7	585.6	563.2	543.8	527.4	518.4	516.9
67.5°	282.4	197.2	249.5	412.3	512.4	509.5	481.1	472.1	451.2	446.7	437.7
70°	209.2	131.5	173.3	334.7	443.7	436.2	413.8	403.4	384.0	373.5	367.5
72.5°	173.3	106.1	127.0	260.0	373.5	364.5	345.1	333.2	316.7	307.8	301.8
75°	140.4	112.0	97.1	192.7	303.3	297.3	279.4	267.4	254.0	242.0	243.5
77.5°	103.1	104.6	77.7	141.9	240.5	231.6	221.1	206.2	200.2	188.2	188.2
80°	77.7	82.2	58.3	97.1	173.3	173.3	164.3	153.9	143.4	137.4	137.4
82.5°	52.3	52.3	43.3	61.3	118.0	113.5	107.6	104.6	98.6	95.6	95.6
85°	23.9	29.9	26.9	37.4	64.2	67.2	67.2	64.2	62.7	59.8	61.3
87.5°	7.5	13.4	16.4	20.9	32.9	34.4	35.9	35.9	35.9	37.4	37.4
90°	1.5	2.7	3.9	4.2	6.6	9.8	11.4	10.1	7.6	5.7	5.7
92.5°	6.0	16.1	26.3	28.9	40.6	56.3	64.0	56.1	40.2	28.4	27.3
95°	14.3	33.0	51.6	56.3	99.9	158.1	187.1	167.0	126.7	96.5	93.1
97.5°	24.8	41.2	57.7	61.8	134.6	231.6	280.1	267.3	241.9	222.8	216.3
100°	33.0	47.8	62.7	66.4	147.2	254.9	308.7	309.6	311.4	312.8	305.1
102.5°	39.8	53.8	67.6	71.1	153.0	262.1	316.7	333.0	365.4	389.8	383.2
105°	51.5	63.2	75.0	78.0	157.3	262.9	315.8	352.2	425.0	479.6	476.0
107.5°	63.4	74.4	85.4	88.1	158.1	251.3	297.9	348.7	450.2	526.3	527.2
110°	71.5	81.5	91.3	93.8	156.9	240.9	283.0	339.7	453.2	538.2	541.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	79.5	88.9	98.3	100.7	156.9	231.9	269.3	327.4	443.5	530.6	536.2
115°	91.4	100.2	108.9	111.1	158.4	221.4	253.0	309.0	420.8	504.7	512.6
117.5°	103.3	111.2	119.0	121.0	161.3	214.9	241.8	292.3	393.2	468.9	477.7
120°	110.2	117.6	125.0	126.9	163.7	212.8	237.3	283.5	375.7	444.9	453.5
122.5°	116.8	124.4	131.9	133.8	167.1	211.6	233.9	275.4	358.5	420.8	429.3
125°	127.2	134.1	140.9	142.6	171.8	210.8	230.2	265.4	336.1	388.9	396.7
127.5°	135.6	142.4	149.4	151.1	176.4	210.2	227.0	257.3	317.9	363.3	369.9
130°	140.0	147.5	154.9	156.8	179.8	210.5	225.8	252.8	306.7	347.1	353.2
132.5°	144.7	152.2	159.6	161.5	182.6	210.8	224.8	248.9	297.2	333.4	338.7
135°	151.6	158.4	165.1	166.8	185.6	210.6	223.0	243.2	283.7	313.9	318.6
137.5°	158.7	165.3	172.0	173.7	190.0	211.8	222.7	239.8	274.0	299.6	303.4
140°	164.4	170.6	176.8	178.4	192.8	212.0	221.6	236.4	265.9	288.0	291.6
142.5°	168.9	174.6	180.4	181.8	195.0	212.7	221.6	234.6	260.6	280.0	283.1
145°	175.8	180.8	185.8	187.0	198.1	212.7	220.1	230.7	251.9	267.8	270.1
147.5°	182.7	187.5	192.4	193.6	202.5	214.2	220.1	228.5	245.1	257.7	259.6
150°	187.1	191.5	196.0	197.1	204.8	215.0	220.1	227.2	241.2	251.8	253.4
152.5°	191.8	195.1	198.5	199.3	206.3	215.5	220.1	226.1	238.1	247.2	248.4
155°	198.7	201.2	203.7	204.3	209.6	216.6	220.1	224.9	234.5	241.6	242.4
157.5°	203.8	206.2	208.6	209.2	212.8	217.7	220.1	223.8	231.3	236.8	237.4
160°	207.3	209.2	211.0	211.5	214.3	218.2	220.1	223.3	229.7	234.5	234.8
162.5°	210.7	212.0	213.4	213.8	215.9	218.7	220.1	222.8	228.2	232.3	232.6
165°	214.4	215.6	216.9	217.2	218.2	219.5	220.1	222.0	225.9	228.8	229.1
167.5°	217.8	218.4	219.0	219.2	220.0	221.1	221.6	222.9	225.4	227.3	227.4
170°	220.1	220.7	221.3	221.4	221.5	221.6	221.6	222.9	225.4	227.3	227.3
172.5°	221.3	221.4	221.6	221.6	221.6	221.6	221.6	222.6	224.6	226.1	226.0
175°	223.0	223.0	223.0	223.0	222.5	221.9	221.6	222.2	223.5	224.5	224.5
177.5°	223.0	223.0	223.0	223.0	222.6	222.1	221.9	222.4	223.4	224.2	224.1
180°	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2
2.5°	1619.5	1615.0	1619.5	1616.5	1618.0	1613.5	1600.1	1595.6	1600.1	1604.6	1604.6
5°	1638.9	1635.9	1638.9	1638.9	1637.4	1634.4	1619.5	1616.5	1619.5	1621.0	1618.0
7.5°	1644.9	1640.4	1644.9	1641.9	1641.9	1638.9	1624.0	1621.0	1622.5	1627.0	1622.5
10°	1644.9	1640.4	1644.9	1643.4	1641.9	1638.9	1624.0	1618.0	1618.0	1622.5	1618.0
12.5°	1637.4	1634.4	1637.4	1634.4	1634.4	1631.4	1616.5	1610.5	1612.0	1613.5	1607.5
15°	1625.5	1621.0	1625.5	1622.5	1624.0	1619.5	1603.1	1597.1	1597.1	1600.1	1589.6
17.5°	1607.5	1601.6	1607.5	1606.0	1604.6	1601.6	1586.6	1580.7	1579.2	1580.7	1573.2
20°	1586.6	1582.1	1586.6	1585.1	1585.1	1579.2	1564.2	1556.7	1556.7	1556.7	1549.3
22.5°	1553.8	1549.3	1553.8	1556.7	1556.7	1555.3	1541.8	1531.4	1528.4	1528.4	1519.4
25°	1516.4	1511.9	1516.4	1516.4	1514.9	1516.4	1511.9	1506.0	1501.5	1497.0	1488.0
27.5°	1480.6	1477.6	1480.6	1477.6	1480.6	1476.1	1474.6	1473.1	1467.1	1462.6	1450.7
30°	1444.7	1441.7	1444.7	1441.7	1438.7	1435.7	1428.3	1425.3	1431.3	1428.3	1408.8
32.5°	1399.9	1396.9	1399.9	1399.9	1396.9	1396.9	1384.9	1380.5	1382.0	1390.9	1373.0
35°	1353.6	1349.1	1353.6	1352.1	1353.6	1349.1	1341.6	1340.1	1334.1	1344.6	1331.2
37.5°	1299.8	1295.3	1299.8	1299.8	1299.8	1302.8	1296.8	1292.3	1283.3	1296.8	1286.3
40°	1244.5	1238.5	1244.5	1243.0	1244.5	1247.5	1244.5	1241.5	1232.6	1243.0	1234.0
42.5°	1181.8	1180.3	1181.8	1183.2	1183.2	1189.2	1193.7	1187.7	1184.7	1177.3	1183.2
45°	1114.5	1111.5	1114.5	1117.5	1119.0	1122.0	1135.4	1135.4	1131.0	1119.0	1128.0
47.5°	1042.8	1035.3	1042.8	1051.8	1051.8	1056.3	1069.7	1080.2	1072.7	1057.8	1062.2
50°	966.6	968.1	966.6	972.6	972.6	989.0	999.5	1009.9	1017.4	999.5	978.6
52.5°	891.9	890.4	891.9	896.4	902.4	909.8	927.8	938.2	950.2	939.7	906.9
55°	817.2	820.2	817.2	818.7	821.7	826.2	853.1	863.5	885.9	872.5	838.1
57.5°	742.5	738.0	742.5	745.5	747.0	751.5	773.9	793.3	806.8	808.3	766.4
60°	655.9	649.9	655.9	669.3	672.3	675.3	696.2	714.1	726.1	730.6	687.2
62.5°	579.7	569.2	579.7	588.6	594.6	602.1	617.0	643.9	654.4	655.9	594.6
65°	499.0	494.5	499.0	516.9	518.4	527.4	543.8	563.2	585.6	582.7	494.5
67.5°	425.8	425.8	425.8	437.7	446.7	451.2	472.1	481.1	509.5	512.4	412.3
70°	358.6	357.1	358.6	367.5	373.5	384.0	403.4	413.8	436.2	443.7	334.7
72.5°	294.3	292.8	294.3	301.8	307.8	316.7	333.2	345.1	364.5	373.5	260.0
75°	237.5	234.6	237.5	243.5	242.0	254.0	267.4	279.4	297.3	303.3	192.7
77.5°	182.3	182.3	182.3	188.2	188.2	200.2	206.2	221.1	231.6	240.5	141.9
80°	136.0	134.5	136.0	137.4	137.4	143.4	153.9	164.3	173.3	173.3	97.1
82.5°	95.6	92.6	95.6	95.6	95.6	98.6	104.6	107.6	113.5	118.0	61.3
85°	59.8	59.8	59.8	61.3	59.8	62.7	64.2	67.2	67.2	64.2	37.4
87.5°	38.8	37.4	38.8	37.4	37.4	35.9	35.9	35.9	34.4	32.9	20.9
90°	5.7	5.7	5.7	5.7	5.7	7.6	10.1	11.4	9.8	6.6	4.2
92.5°	22.7	18.2	22.7	27.3	28.4	40.2	56.1	64.0	56.3	40.6	28.9
95°	79.4	65.7	79.4	93.1	96.5	126.7	167.0	187.1	158.1	99.9	56.3
97.5°	190.2	164.1	190.2	216.3	222.8	241.9	267.3	280.1	231.6	134.6	61.8
100°	274.1	243.0	274.1	305.1	312.8	311.4	309.6	308.7	254.9	147.2	66.4
102.5°	356.6	330.0	356.6	383.2	389.8	365.4	333.0	316.7	262.1	153.0	71.1
105°	461.7	447.4	461.7	476.0	479.6	425.0	352.2	315.8	262.9	157.3	78.0
107.5°	530.6	534.1	530.6	527.2	526.3	450.2	348.7	297.9	251.3	158.1	88.1
110°	556.9	571.8	556.9	541.9	538.2	453.2	339.7	283.0	240.9	156.9	93.8





TEST NUMBER: P933987

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	559.2	582.1	559.2	536.2	530.6	443.5	327.4	269.3	231.9	156.9	100.7
115°	544.3	576.1	544.3	512.6	504.7	420.8	309.0	253.0	221.4	158.4	111.1
117.5°	512.9	548.1	512.9	477.7	468.9	393.2	292.3	241.8	214.9	161.3	121.0
120°	487.6	521.8	487.6	453.5	444.9	375.7	283.5	237.3	212.8	163.7	126.9
122.5°	462.9	496.6	462.9	429.3	420.8	358.5	275.4	233.9	211.6	167.1	133.8
125°	427.7	458.8	427.7	396.7	388.9	336.1	265.4	230.2	210.8	171.8	142.6
127.5°	396.1	422.3	396.1	369.9	363.3	317.9	257.3	227.0	210.2	176.4	151.1
130°	377.4	401.6	377.4	353.2	347.1	306.7	252.8	225.8	210.5	179.8	156.8
132.5°	360.5	382.2	360.5	338.7	333.4	297.2	248.9	224.8	210.8	182.6	161.5
135°	337.2	356.0	337.2	318.6	313.9	283.7	243.2	223.0	210.6	185.6	166.8
137.5°	318.7	334.0	318.7	303.4	299.6	274.0	239.8	222.7	211.8	190.0	173.7
140°	305.9	320.2	305.9	291.6	288.0	265.9	236.4	221.6	212.0	192.8	178.4
142.5°	295.3	307.7	295.3	283.1	280.0	260.6	234.6	221.6	212.7	195.0	181.8
145°	279.5	288.8	279.5	270.1	267.8	251.9	230.7	220.1	212.7	198.1	187.0
147.5°	267.3	275.0	267.3	259.6	257.7	245.1	228.5	220.1	214.2	202.5	193.6
150°	259.7	265.9	259.7	253.4	251.8	241.2	227.2	220.1	215.0	204.8	197.1
152.5°	253.1	257.9	253.1	248.4	247.2	238.1	226.1	220.1	215.5	206.3	199.3
155°	245.5	248.7	245.5	242.4	241.6	234.5	224.9	220.1	216.6	209.6	204.3
157.5°	239.6	241.8	239.6	237.4	236.8	231.3	223.8	220.1	217.7	212.8	209.2
160°	236.1	237.3	236.1	234.8	234.5	229.7	223.3	220.1	218.2	214.3	211.5
162.5°	233.8	235.0	233.8	232.6	232.3	228.2	222.8	220.1	218.7	215.9	213.8
165°	230.4	231.7	230.4	229.1	228.8	225.9	222.0	220.1	219.5	218.2	217.2
167.5°	228.0	228.5	228.0	227.4	227.3	225.4	222.9	221.6	221.1	220.0	219.2
170°	227.3	227.3	227.3	227.3	227.3	225.4	222.9	221.6	221.6	221.5	221.4
172.5°	225.5	225.1	225.5	226.0	226.1	224.6	222.6	221.6	221.6	221.6	221.6
175°	224.5	224.5	224.5	224.5	224.5	223.5	222.2	221.6	221.9	222.5	223.0
177.5°	223.5	223.0	223.5	224.1	224.2	223.4	222.4	221.9	222.1	222.6	223.0
180°	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0



TEST NUMBER: P933987

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2
2.5°	1601.6	1592.6	1592.6	1577.7	1571.7	1567.2	1559.7	1537.3	1531.4	1525.4	1534.3
5°	1615.0	1598.6	1586.6	1559.7	1537.3	1528.4	1500.0	1446.2	1410.3	1383.4	1368.5
7.5°	1618.0	1597.1	1574.7	1532.8	1479.1	1455.2	1368.5	1269.9	1243.0	1219.1	1204.2
10°	1615.0	1591.1	1559.7	1497.0	1370.0	1328.2	1241.5	1177.3	1160.8	1156.4	1160.8
12.5°	1604.6	1582.1	1538.8	1434.2	1256.5	1228.1	1177.3	1139.9	1136.9	1144.4	1184.7
15°	1586.6	1565.7	1514.9	1350.6	1193.7	1172.8	1136.9	1123.5	1139.9	1192.2	1313.2
17.5°	1568.7	1544.8	1482.0	1268.4	1145.9	1131.0	1105.6	1132.5	1225.1	1295.3	1335.6
20°	1544.8	1516.4	1444.7	1208.6	1111.5	1098.1	1086.1	1207.2	1277.4	1302.8	1325.2
22.5°	1516.4	1486.5	1393.9	1166.8	1075.7	1065.2	1072.7	1249.0	1277.4	1295.3	1314.7
25°	1479.1	1453.7	1334.1	1133.9	1047.3	1035.3	1063.7	1244.5	1260.9	1265.4	1304.3
27.5°	1444.7	1411.8	1271.4	1104.1	1012.9	1008.4	1071.2	1225.1	1237.0	1241.5	1283.3
30°	1402.9	1353.6	1201.2	1072.7	977.1	975.6	1072.7	1201.2	1198.2	1210.1	1252.0
32.5°	1359.5	1266.9	1122.0	1033.8	942.7	941.2	1062.2	1165.3	1162.3	1178.8	1210.1
35°	1319.2	1199.7	1014.4	989.0	899.4	900.9	1036.8	1123.5	1125.0	1139.9	1159.3
37.5°	1277.4	1141.4	896.4	939.7	857.6	857.6	1002.5	1084.6	1081.7	1086.1	1113.0
40°	1228.1	1050.3	791.8	875.5	818.7	814.2	960.6	1042.8	1032.4	1030.9	1068.2
42.5°	1175.8	950.2	714.1	790.3	773.9	767.9	909.8	992.0	972.6	977.1	1024.9
45°	1119.0	923.3	654.4	667.8	727.6	723.1	854.6	933.8	920.3	932.3	981.6
47.5°	1062.2	869.5	635.0	554.3	678.3	676.8	793.3	877.0	869.5	881.5	933.8
50°	984.5	809.7	633.5	475.1	623.0	629.0	720.1	821.7	821.7	832.2	887.4
52.5°	884.4	736.5	575.2	430.3	558.8	576.7	655.9	773.9	776.9	787.3	836.6
55°	793.3	660.3	533.4	395.9	482.6	521.4	593.1	724.6	730.6	741.0	785.8
57.5°	709.6	549.8	524.4	355.6	412.3	449.7	537.8	676.8	679.8	688.7	732.1
60°	620.0	397.4	481.1	312.2	351.1	379.5	487.0	620.0	630.5	636.4	673.8
62.5°	518.4	288.3	436.2	282.4	321.2	327.2	445.2	566.2	579.7	584.2	606.6
65°	369.0	242.0	370.5	257.0	289.8	291.3	400.4	510.9	522.9	530.4	546.8
67.5°	249.5	197.2	282.4	233.1	265.9	267.4	357.1	446.7	463.1	469.1	479.6
70°	173.3	131.5	209.2	207.7	239.0	242.0	310.8	388.4	403.4	407.9	413.8
72.5°	127.0	106.1	173.3	186.8	210.7	213.6	262.9	322.7	337.6	342.1	345.1
75°	97.1	112.0	140.4	162.8	179.3	180.8	215.1	262.9	273.4	276.4	277.9
77.5°	77.7	104.6	103.1	131.5	146.4	143.4	168.8	203.2	212.1	212.1	212.1
80°	58.3	82.2	77.7	94.1	107.6	104.6	121.0	144.9	147.9	150.9	149.4
82.5°	43.3	52.3	52.3	59.8	71.7	68.7	80.7	94.1	94.1	94.1	97.1
85°	26.9	29.9	23.9	31.4	40.3	38.8	44.8	50.8	52.3	52.3	49.3
87.5°	16.4	13.4	7.5	12.0	17.9	17.9	20.9	22.4	20.9	20.9	20.9
90°	3.9	2.7	1.5	2.7	3.9	4.2	6.6	9.8	11.4	10.1	7.6
92.5°	26.3	16.1	6.0	16.1	26.3	28.9	40.6	56.3	64.0	56.1	40.2
95°	51.6	33.0	14.3	33.0	51.6	56.3	99.9	158.1	187.1	167.0	126.7
97.5°	57.7	41.2	24.8	41.2	57.7	61.8	134.6	231.6	280.1	267.3	241.9
100°	62.7	47.8	33.0	47.8	62.7	66.4	147.2	254.9	308.7	309.6	311.4
102.5°	67.6	53.8	39.8	53.8	67.6	71.1	153.0	262.1	316.7	333.0	365.4
105°	75.0	63.2	51.5	63.2	75.0	78.0	157.3	262.9	315.8	352.2	425.0
107.5°	85.4	74.4	63.4	74.4	85.4	88.1	158.1	251.3	297.9	348.7	450.2
110°	91.3	81.5	71.5	81.5	91.3	93.8	156.9	240.9	283.0	339.7	453.2



TEST NUMBER: P933987

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	98.3	88.9	79.5	88.9	98.3	100.7	156.9	231.9	269.3	327.4	443.5
115°	108.9	100.2	91.4	100.2	108.9	111.1	158.4	221.4	253.0	309.0	420.8
117.5°	119.0	111.2	103.3	111.2	119.0	121.0	161.3	214.9	241.8	292.3	393.2
120°	125.0	117.6	110.2	117.6	125.0	126.9	163.7	212.8	237.3	283.5	375.7
122.5°	131.9	124.4	116.8	124.4	131.9	133.8	167.1	211.6	233.9	275.4	358.5
125°	140.9	134.1	127.2	134.1	140.9	142.6	171.8	210.8	230.2	265.4	336.1
127.5°	149.4	142.4	135.6	142.4	149.4	151.1	176.4	210.2	227.0	257.3	317.9
130°	154.9	147.5	140.0	147.5	154.9	156.8	179.8	210.5	225.8	252.8	306.7
132.5°	159.6	152.2	144.7	152.2	159.6	161.5	182.6	210.8	224.8	248.9	297.2
135°	165.1	158.4	151.6	158.4	165.1	166.8	185.6	210.6	223.0	243.2	283.7
137.5°	172.0	165.3	158.7	165.3	172.0	173.7	190.0	211.8	222.7	239.8	274.0
140°	176.8	170.6	164.4	170.6	176.8	178.4	192.8	212.0	221.6	236.4	265.9
142.5°	180.4	174.6	168.9	174.6	180.4	181.8	195.0	212.7	221.6	234.6	260.6
145°	185.8	180.8	175.8	180.8	185.8	187.0	198.1	212.7	220.1	230.7	251.9
147.5°	192.4	187.5	182.7	187.5	192.4	193.6	202.5	214.2	220.1	228.5	245.1
150°	196.0	191.5	187.1	191.5	196.0	197.1	204.8	215.0	220.1	227.2	241.2
152.5°	198.5	195.1	191.8	195.1	198.5	199.3	206.3	215.5	220.1	226.1	238.1
155°	203.7	201.2	198.7	201.2	203.7	204.3	209.6	216.6	220.1	224.9	234.5
157.5°	208.6	206.2	203.8	206.2	208.6	209.2	212.8	217.7	220.1	223.8	231.3
160°	211.0	209.2	207.3	209.2	211.0	211.5	214.3	218.2	220.1	223.3	229.7
162.5°	213.4	212.0	210.7	212.0	213.4	213.8	215.9	218.7	220.1	222.8	228.2
165°	216.9	215.6	214.4	215.6	216.9	217.2	218.2	219.5	220.1	222.0	225.9
167.5°	219.0	218.4	217.8	218.4	219.0	219.2	220.0	221.1	221.6	222.9	225.4
170°	221.3	220.7	220.1	220.7	221.3	221.4	221.5	221.6	221.6	222.9	225.4
172.5°	221.6	221.4	221.3	221.4	221.6	221.6	221.6	221.6	221.6	222.6	224.6
175°	223.0	223.0	223.0	223.0	223.0	223.0	222.5	221.9	221.6	222.2	223.5
177.5°	223.0	223.0	223.0	223.0	223.0	223.0	222.6	222.1	221.9	222.4	223.4
180°	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0



TEST NUMBER: P933987

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2
2.5°	1523.9	1519.4	1525.4	1508.9	1525.4	1519.4	1523.9	1534.3	1525.4	1531.4	1537.3
5°	1337.1	1329.7	1305.8	1286.3	1305.8	1329.7	1337.1	1368.5	1383.4	1410.3	1446.2
7.5°	1195.2	1189.2	1183.2	1171.3	1183.2	1189.2	1195.2	1204.2	1219.1	1243.0	1269.9
10°	1163.8	1165.3	1174.3	1172.8	1174.3	1165.3	1163.8	1160.8	1156.4	1160.8	1177.3
12.5°	1244.5	1257.9	1307.2	1304.3	1307.2	1257.9	1244.5	1184.7	1144.4	1136.9	1139.9
15°	1337.1	1341.6	1352.1	1353.6	1352.1	1341.6	1337.1	1313.2	1192.2	1139.9	1123.5
17.5°	1346.1	1347.6	1355.1	1355.1	1355.1	1347.6	1346.1	1335.6	1295.3	1225.1	1132.5
20°	1338.6	1341.6	1356.6	1359.5	1356.6	1341.6	1338.6	1325.2	1302.8	1277.4	1207.2
22.5°	1335.6	1341.6	1353.6	1352.1	1353.6	1341.6	1335.6	1314.7	1295.3	1277.4	1249.0
25°	1320.7	1320.7	1322.2	1323.7	1322.2	1320.7	1320.7	1304.3	1265.4	1260.9	1244.5
27.5°	1289.3	1292.3	1301.3	1299.8	1301.3	1292.3	1289.3	1283.3	1241.5	1237.0	1225.1
30°	1260.9	1257.9	1250.5	1244.5	1250.5	1257.9	1260.9	1252.0	1210.1	1198.2	1201.2
32.5°	1213.1	1205.7	1198.2	1193.7	1198.2	1205.7	1213.1	1210.1	1178.8	1162.3	1165.3
35°	1156.4	1157.8	1156.4	1151.9	1156.4	1157.8	1156.4	1159.3	1139.9	1125.0	1123.5
37.5°	1116.0	1119.0	1117.5	1111.5	1117.5	1119.0	1116.0	1113.0	1086.1	1081.7	1084.6
40°	1074.2	1075.7	1074.2	1069.7	1074.2	1075.7	1074.2	1068.2	1030.9	1032.4	1042.8
42.5°	1033.8	1032.4	1027.9	1024.9	1027.9	1032.4	1033.8	1024.9	977.1	972.6	992.0
45°	987.5	989.0	980.1	975.6	980.1	989.0	987.5	981.6	932.3	920.3	933.8
47.5°	941.2	941.2	933.8	929.3	933.8	941.2	941.2	933.8	881.5	869.5	877.0
50°	891.9	890.4	880.0	878.5	880.0	890.4	891.9	887.4	832.2	821.7	821.7
52.5°	835.1	835.1	836.6	839.6	836.6	835.1	835.1	836.6	787.3	776.9	773.9
55°	785.8	787.3	797.8	800.8	797.8	787.3	785.8	785.8	741.0	730.6	724.6
57.5°	735.0	735.0	742.5	742.5	742.5	735.0	735.0	732.1	688.7	679.8	676.8
60°	676.8	679.8	685.7	684.3	685.7	679.8	676.8	673.8	636.4	630.5	620.0
62.5°	615.5	618.5	620.0	617.0	620.0	618.5	615.5	606.6	584.2	579.7	566.2
65°	551.3	554.3	555.8	552.8	555.8	554.3	551.3	546.8	530.4	522.9	510.9
67.5°	485.6	484.1	482.6	488.5	482.6	484.1	485.6	479.6	469.1	463.1	446.7
70°	418.3	418.3	416.8	419.8	416.8	418.3	418.3	413.8	407.9	403.4	388.4
72.5°	346.6	345.1	351.1	346.6	351.1	345.1	346.6	345.1	342.1	337.6	322.7
75°	276.4	279.4	276.4	280.9	276.4	279.4	276.4	277.9	276.4	273.4	262.9
77.5°	210.7	213.6	210.7	210.7	210.7	213.6	210.7	212.1	212.1	212.1	203.2
80°	149.4	147.9	147.9	146.4	147.9	147.9	149.4	149.4	150.9	147.9	144.9
82.5°	95.6	94.1	94.1	97.1	94.1	94.1	95.6	97.1	94.1	94.1	94.1
85°	52.3	53.8	50.8	50.8	50.8	53.8	52.3	49.3	52.3	52.3	50.8
87.5°	19.4	17.9	17.9	17.9	17.9	17.9	19.4	20.9	20.9	20.9	22.4
90°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.6	10.1	11.4	9.8
92.5°	28.4	27.3	22.7	18.2	22.7	27.3	28.4	40.2	56.1	64.0	56.3
95°	96.5	93.1	79.4	65.7	79.4	93.1	96.5	126.7	167.0	187.1	158.1
97.5°	222.8	216.3	190.2	164.1	190.2	216.3	222.8	241.9	267.3	280.1	231.6
100°	312.8	305.1	274.1	243.0	274.1	305.1	312.8	311.4	309.6	308.7	254.9
102.5°	389.8	383.2	356.6	330.0	356.6	383.2	389.8	365.4	333.0	316.7	262.1
105°	479.6	476.0	461.7	447.4	461.7	476.0	479.6	425.0	352.2	315.8	262.9
107.5°	526.3	527.2	530.6	534.1	530.6	527.2	526.3	450.2	348.7	297.9	251.3
110°	538.2	541.9	556.9	571.8	556.9	541.9	538.2	453.2	339.7	283.0	240.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	530.6	536.2	559.2	582.1	559.2	536.2	530.6	443.5	327.4	269.3	231.9
115°	504.7	512.6	544.3	576.1	544.3	512.6	504.7	420.8	309.0	253.0	221.4
117.5°	468.9	477.7	512.9	548.1	512.9	477.7	468.9	393.2	292.3	241.8	214.9
120°	444.9	453.5	487.6	521.8	487.6	453.5	444.9	375.7	283.5	237.3	212.8
122.5°	420.8	429.3	462.9	496.6	462.9	429.3	420.8	358.5	275.4	233.9	211.6
125°	388.9	396.7	427.7	458.8	427.7	396.7	388.9	336.1	265.4	230.2	210.8
127.5°	363.3	369.9	396.1	422.3	396.1	369.9	363.3	317.9	257.3	227.0	210.2
130°	347.1	353.2	377.4	401.6	377.4	353.2	347.1	306.7	252.8	225.8	210.5
132.5°	333.4	338.7	360.5	382.2	360.5	338.7	333.4	297.2	248.9	224.8	210.8
135°	313.9	318.6	337.2	356.0	337.2	318.6	313.9	283.7	243.2	223.0	210.6
137.5°	299.6	303.4	318.7	334.0	318.7	303.4	299.6	274.0	239.8	222.7	211.8
140°	288.0	291.6	305.9	320.2	305.9	291.6	288.0	265.9	236.4	221.6	212.0
142.5°	280.0	283.1	295.3	307.7	295.3	283.1	280.0	260.6	234.6	221.6	212.7
145°	267.8	270.1	279.5	288.8	279.5	270.1	267.8	251.9	230.7	220.1	212.7
147.5°	257.7	259.6	267.3	275.0	267.3	259.6	257.7	245.1	228.5	220.1	214.2
150°	251.8	253.4	259.7	265.9	259.7	253.4	251.8	241.2	227.2	220.1	215.0
152.5°	247.2	248.4	253.1	257.9	253.1	248.4	247.2	238.1	226.1	220.1	215.5
155°	241.6	242.4	245.5	248.7	245.5	242.4	241.6	234.5	224.9	220.1	216.6
157.5°	236.8	237.4	239.6	241.8	239.6	237.4	236.8	231.3	223.8	220.1	217.7
160°	234.5	234.8	236.1	237.3	236.1	234.8	234.5	229.7	223.3	220.1	218.2
162.5°	232.3	232.6	233.8	235.0	233.8	232.6	232.3	228.2	222.8	220.1	218.7
165°	228.8	229.1	230.4	231.7	230.4	229.1	228.8	225.9	222.0	220.1	219.5
167.5°	227.3	227.4	228.0	228.5	228.0	227.4	227.3	225.4	222.9	221.6	221.1
170°	227.3	227.3	227.3	227.3	227.3	227.3	227.3	225.4	222.9	221.6	221.6
172.5°	226.1	226.0	225.5	225.1	225.5	226.0	226.1	224.6	222.6	221.6	221.6
175°	224.5	224.5	224.5	224.5	224.5	224.5	224.5	223.5	222.2	221.6	221.9
177.5°	224.2	224.1	223.5	223.0	223.5	224.1	224.2	223.4	222.4	221.9	222.1
180°	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1579.2	1579.2	1579.2	1579.2	1579.2
2.5°	1559.7	1567.2	1571.7	1577.7	1592.6
5°	1500.0	1528.4	1537.3	1559.7	1586.6
7.5°	1368.5	1455.2	1479.1	1532.8	1574.7
10°	1241.5	1328.2	1370.0	1497.0	1559.7
12.5°	1177.3	1228.1	1256.5	1434.2	1538.8
15°	1136.9	1172.8	1193.7	1350.6	1514.9
17.5°	1105.6	1131.0	1145.9	1268.4	1482.0
20°	1086.1	1098.1	1111.5	1208.6	1444.7
22.5°	1072.7	1065.2	1075.7	1166.8	1393.9
25°	1063.7	1035.3	1047.3	1133.9	1334.1
27.5°	1071.2	1008.4	1012.9	1104.1	1271.4
30°	1072.7	975.6	977.1	1072.7	1201.2
32.5°	1062.2	941.2	942.7	1033.8	1122.0
35°	1036.8	900.9	899.4	989.0	1014.4
37.5°	1002.5	857.6	857.6	939.7	896.4
40°	960.6	814.2	818.7	875.5	791.8
42.5°	909.8	767.9	773.9	790.3	714.1
45°	854.6	723.1	727.6	667.8	654.4
47.5°	793.3	676.8	678.3	554.3	635.0
50°	720.1	629.0	623.0	475.1	633.5
52.5°	655.9	576.7	558.8	430.3	575.2
55°	593.1	521.4	482.6	395.9	533.4
57.5°	537.8	449.7	412.3	355.6	524.4
60°	487.0	379.5	351.1	312.2	481.1
62.5°	445.2	327.2	321.2	282.4	436.2
65°	400.4	291.3	289.8	257.0	370.5
67.5°	357.1	267.4	265.9	233.1	282.4
70°	310.8	242.0	239.0	207.7	209.2
72.5°	262.9	213.6	210.7	186.8	173.3
75°	215.1	180.8	179.3	162.8	140.4
77.5°	168.8	143.4	146.4	131.5	103.1
80°	121.0	104.6	107.6	94.1	77.7
82.5°	80.7	68.7	71.7	59.8	52.3
85°	44.8	38.8	40.3	31.4	23.9
87.5°	20.9	17.9	17.9	12.0	7.5
90°	6.6	4.2	3.9	2.7	1.5
92.5°	40.6	28.9	26.3	16.1	6.0
95°	99.9	56.3	51.6	33.0	14.3
97.5°	134.6	61.8	57.7	41.2	24.8
100°	147.2	66.4	62.7	47.8	33.0
102.5°	153.0	71.1	67.6	53.8	39.8
105°	157.3	78.0	75.0	63.2	51.5
107.5°	158.1	88.1	85.4	74.4	63.4
110°	156.9	93.8	91.3	81.5	71.5



TEST NUMBER: P933987

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	156.9	100.7	98.3	88.9	79.5
115°	158.4	111.1	108.9	100.2	91.4
117.5°	161.3	121.0	119.0	111.2	103.3
120°	163.7	126.9	125.0	117.6	110.2
122.5°	167.1	133.8	131.9	124.4	116.8
125°	171.8	142.6	140.9	134.1	127.2
127.5°	176.4	151.1	149.4	142.4	135.6
130°	179.8	156.8	154.9	147.5	140.0
132.5°	182.6	161.5	159.6	152.2	144.7
135°	185.6	166.8	165.1	158.4	151.6
137.5°	190.0	173.7	172.0	165.3	158.7
140°	192.8	178.4	176.8	170.6	164.4
142.5°	195.0	181.8	180.4	174.6	168.9
145°	198.1	187.0	185.8	180.8	175.8
147.5°	202.5	193.6	192.4	187.5	182.7
150°	204.8	197.1	196.0	191.5	187.1
152.5°	206.3	199.3	198.5	195.1	191.8
155°	209.6	204.3	203.7	201.2	198.7
157.5°	212.8	209.2	208.6	206.2	203.8
160°	214.3	211.5	211.0	209.2	207.3
162.5°	215.9	213.8	213.4	212.0	210.7
165°	218.2	217.2	216.9	215.6	214.4
167.5°	220.0	219.2	219.0	218.4	217.8
170°	221.5	221.4	221.3	220.7	220.1
172.5°	221.6	221.6	221.6	221.4	221.3
175°	222.5	223.0	223.0	223.0	223.0
177.5°	222.6	223.0	223.0	223.0	223.0
180°	223.0	223.0	223.0	223.0	223.0



TEST NUMBER: P933987  
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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	14.69	15.81	15.41	16.55	17.44	17.51	18.64	18.23	19.38	20.26
	3H	15.18	16.20	15.92	16.95	17.86	18.87	19.89	19.61	20.64	21.55
	4H	15.39	16.34	16.14	17.10	18.03	19.33	20.28	20.08	21.04	21.97
	6H	15.52	16.40	16.29	17.17	18.11	19.63	20.51	20.39	21.28	22.22
	8H	15.53	16.37	16.30	17.16	18.10	19.71	20.55	20.48	21.34	22.28
	12H	15.51	16.31	16.29	17.09	18.06	19.75	20.56	20.54	21.34	22.31
4H	2H	15.75	16.70	16.51	17.46	18.39	17.95	18.91	18.71	19.67	20.59
	3H	16.80	17.60	17.57	18.39	19.34	19.48	20.28	20.25	21.07	22.02
	4H	17.09	17.81	17.87	18.61	19.58	20.02	20.74	20.80	21.54	22.51
	6H	17.23	17.85	18.03	18.68	19.65	20.40	21.02	21.20	21.84	22.82
	8H	17.24	17.82	18.05	18.64	19.63	20.51	21.09	21.31	21.91	22.90
	12H	17.22	17.75	18.05	18.58	19.58	20.58	21.10	21.40	21.94	22.94
8H	4H	17.56	18.15	18.37	18.96	19.96	20.16	20.75	20.97	21.57	22.56
	6H	17.83	18.32	18.67	19.18	20.17	20.61	21.09	21.45	21.95	22.95
	8H	17.88	18.31	18.73	19.17	20.18	20.76	21.19	21.61	22.05	23.06
	12H	17.88	18.26	18.72	19.10	20.17	20.87	21.25	21.72	22.10	23.17
12H	4H	17.58	18.11	18.41	18.95	19.94	20.14	20.67	20.97	21.51	22.50
	6H	17.90	18.33	18.74	19.18	20.19	20.61	21.04	21.46	21.90	22.91
	8H	17.98	18.36	18.82	19.20	20.27	20.78	21.16	21.63	22.01	23.07