

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: P934387

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

**Test Information**

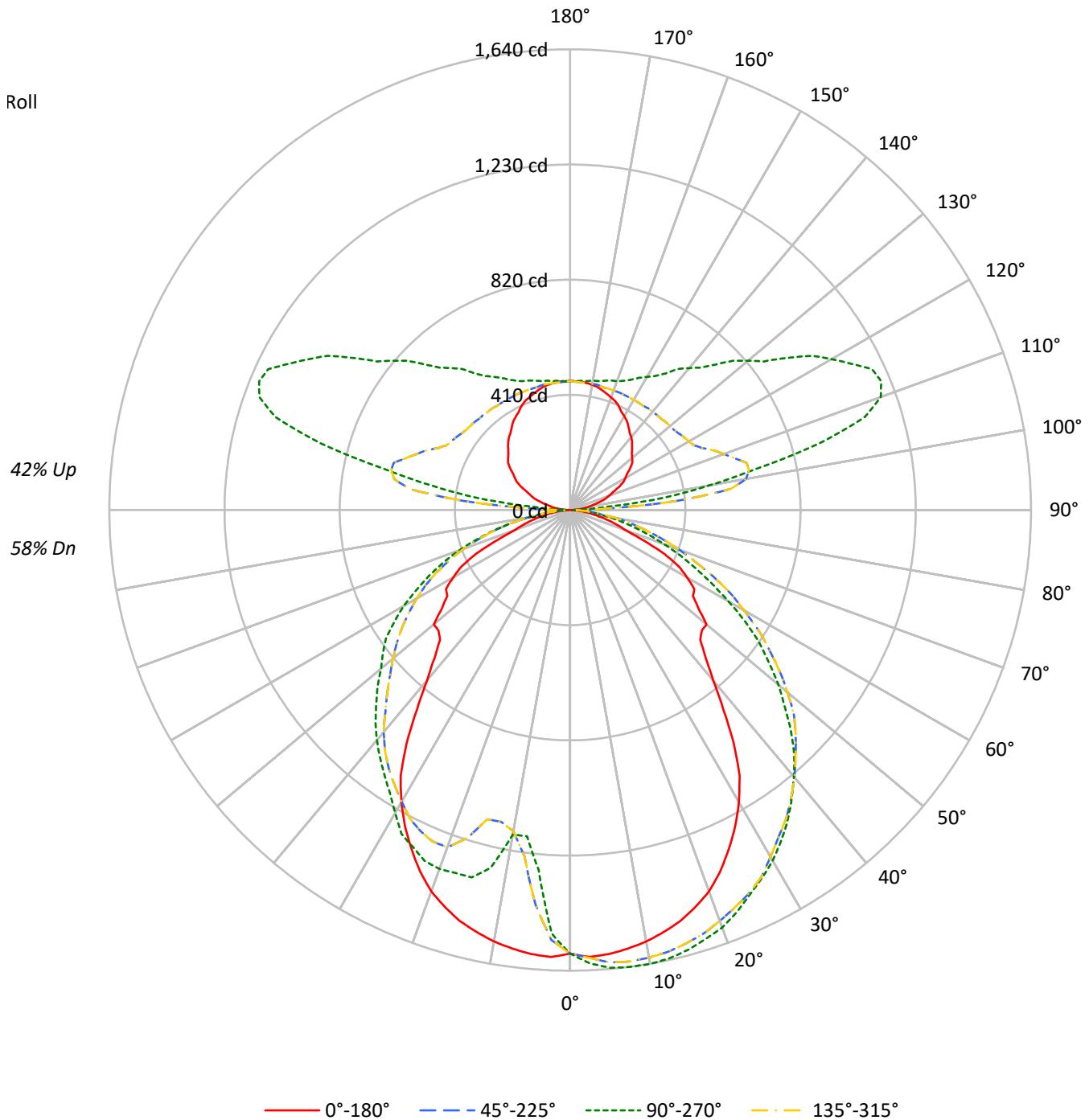
Test Method: LM-79-2019  
Report Number: P934387  
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7070.5 lumens  
Efficiency: N/A  
Efficacy: 129.5 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: General Diffuse  
  
Input Watts (W): 54.6  
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

**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	2.0
10°-20°	404.7	5.7
20°-30°	625.6	8.8
30°-40°	746.9	10.6
40°-50°	751.3	10.6
50°-60°	653.7	9.2
60°-70°	463.5	6.6
70°-80°	245.2	3.5
80°-90°	62.8	0.9
90°-100°	223.7	3.2
100°-110°	588.0	8.3
110°-120°	609.7	8.6
120°-130°	489.0	6.9
130°-140°	383.7	5.4
140°-150°	294.5	4.2
150°-160°	212.1	3.0
160°-170°	129.8	1.8
170°-180°	43.8	0.6
0°-30°	1172.9	16.6
0°-40°	1919.8	27.2
0°-60°	3324.7	47.0
0°-90°	4096.2	57.9
90°-120°	1421.3	20.1
90°-150°	2588.6	36.6
90°-180°	2974.0	42.1
0°-180°	7070.5	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°	3	12	3	12	3	4
95°	30	135	30	135	30	33
105°	106	921	106	921	106	112
115°	188	1186	188	1186	188	186
125°	262	944	262	944	262	232
135°	312	733	312	733	312	241
145°	362	594	362	594	362	227
155°	409	512	409	512	409	188
165°	441	477	441	477	441	125
175°	459	462	459	462	459	44
180°	459	459	459	459	459	



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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°	3.1	5.6	8.1	8.7	13.5	20.1	23.4	20.8	15.5	11.7	11.7
92.5°	12.4	33.3	54.2	59.5	83.6	115.7	131.8	115.4	82.9	58.5	56.2
95°	29.6	67.8	106.2	115.7	205.6	325.4	385.3	343.8	260.9	198.6	191.5
97.5°	51.1	85.0	118.7	127.2	277.0	476.7	576.5	550.3	497.8	458.5	445.0
100°	67.7	98.4	129.1	136.8	302.9	524.5	635.2	637.1	641.0	643.9	628.0
102.5°	81.9	110.6	139.1	146.3	314.8	539.5	651.9	685.2	752.1	802.2	788.5
105°	106.0	130.2	154.4	160.5	323.6	541.2	650.0	724.9	874.6	986.9	979.6
107.5°	130.6	153.2	175.7	181.4	325.3	517.1	613.0	717.4	926.3	1083.0	1084.7
110°	147.2	167.5	187.9	193.0	322.8	495.8	582.3	699.0	932.6	1107.7	1115.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	163.5	183.0	202.4	207.3	322.9	477.2	554.3	673.8	912.7	1091.9	1103.7
115°	188.1	206.1	224.0	228.5	325.9	455.8	520.7	635.8	866.0	1038.6	1055.0
117.5°	212.4	228.8	245.0	249.1	332.0	442.4	497.6	601.5	809.2	965.0	983.2
120°	226.6	241.9	257.3	261.2	336.8	437.8	488.3	583.3	773.1	915.4	933.1
122.5°	240.5	256.0	271.4	275.3	343.9	435.5	481.3	566.7	737.7	865.9	883.3
125°	261.7	275.8	289.9	293.4	353.5	433.6	473.6	546.2	691.4	800.3	816.2
127.5°	279.0	293.2	307.5	311.1	363.0	432.5	467.1	529.5	654.1	747.6	761.0
130°	288.2	303.6	318.9	322.7	370.0	433.1	464.6	520.1	631.2	714.4	726.9
132.5°	297.8	313.1	328.5	332.3	375.7	433.6	462.5	512.2	611.5	686.0	697.2
135°	311.9	325.9	339.8	343.3	381.9	433.2	458.9	500.5	583.7	646.0	655.7
137.5°	326.4	340.2	354.0	357.5	391.0	435.8	458.2	493.3	563.6	616.4	624.3
140°	338.4	351.2	363.8	367.0	396.7	436.2	456.1	486.4	547.2	592.7	600.1
142.5°	347.6	359.4	371.1	374.1	401.4	437.8	456.1	482.8	536.0	576.1	582.5
145°	361.8	372.1	382.4	385.0	407.7	437.8	453.0	474.8	518.4	551.2	556.0
147.5°	376.0	386.0	396.0	398.5	416.6	440.8	453.0	470.1	504.5	530.3	534.3
150°	385.3	394.3	403.3	405.6	421.4	442.4	453.0	467.5	496.5	518.2	521.4
152.5°	394.7	401.6	408.5	410.2	424.4	443.4	453.0	465.3	490.1	508.7	511.0
155°	409.0	414.0	419.0	420.3	431.2	445.7	453.0	462.8	482.6	497.3	498.9
157.5°	419.4	424.3	429.3	430.5	437.9	448.0	453.0	460.6	476.0	487.4	488.5
160°	426.5	430.3	434.1	435.1	441.0	449.0	453.0	459.6	472.7	482.6	483.2
162.5°	433.6	436.4	439.3	440.0	444.3	450.1	453.0	458.6	469.6	477.9	478.5
165°	441.2	443.8	446.4	447.1	449.1	451.7	453.0	457.0	464.8	470.8	471.5
167.5°	448.3	449.5	450.8	451.1	452.8	455.0	456.1	458.7	463.8	467.7	468.0
170°	453.0	454.2	455.5	455.8	455.9	456.0	456.1	458.7	463.8	467.7	467.7
172.5°	455.5	455.8	456.0	456.1	456.1	456.1	456.1	458.1	462.1	465.2	465.0
175°	458.9	458.9	458.9	458.9	458.0	456.7	456.1	457.4	460.0	461.8	461.8
177.5°	458.9	458.9	458.9	458.9	458.2	457.2	456.7	457.7	459.8	461.2	460.9
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



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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°	11.7	11.7	11.7	11.7	11.7	15.5	20.8	23.4	20.1	13.5	8.7
92.5°	46.8	37.5	46.8	56.2	58.5	82.9	115.4	131.8	115.7	83.6	59.5
95°	163.3	135.2	163.3	191.5	198.6	260.9	343.8	385.3	325.4	205.6	115.7
97.5°	391.4	337.8	391.4	445.0	458.5	497.8	550.3	576.5	476.7	277.0	127.2
100°	564.0	500.1	564.0	628.0	643.9	641.0	637.1	635.2	524.5	302.9	136.8
102.5°	733.8	679.0	733.8	788.5	802.2	752.1	685.2	651.9	539.5	314.8	146.3
105°	950.2	920.7	950.2	979.6	986.9	874.6	724.9	650.0	541.2	323.6	160.5
107.5°	1091.8	1099.0	1091.8	1084.7	1083.0	926.3	717.4	613.0	517.1	325.3	181.4
110°	1145.9	1176.6	1145.9	1115.3	1107.7	932.6	699.0	582.3	495.8	322.8	193.0





TEST NUMBER: P934387

CATALOG NUMBER: SQ4-FA-050U-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°	1150.8	1197.8	1150.8	1103.7	1091.9	912.7	673.8	554.3	477.2	322.9	207.3
115°	1120.2	1185.5	1120.2	1055.0	1038.6	866.0	635.8	520.7	455.8	325.9	228.5
117.5°	1055.6	1128.0	1055.6	983.2	965.0	809.2	601.5	497.6	442.4	332.0	249.1
120°	1003.4	1073.8	1003.4	933.1	915.4	773.1	583.3	488.3	437.8	336.8	261.2
122.5°	952.7	1022.0	952.7	883.3	865.9	737.7	566.7	481.3	435.5	343.9	275.3
125°	880.2	944.1	880.2	816.2	800.3	691.4	546.2	473.6	433.6	353.5	293.4
127.5°	815.0	869.0	815.0	761.0	747.6	654.1	529.5	467.1	432.5	363.0	311.1
130°	776.7	826.5	776.7	726.9	714.4	631.2	520.1	464.6	433.1	370.0	322.7
132.5°	741.8	786.4	741.8	697.2	686.0	611.5	512.2	462.5	433.6	375.7	332.3
135°	694.1	732.6	694.1	655.7	646.0	583.7	500.5	458.9	433.2	381.9	343.3
137.5°	655.9	687.3	655.9	624.3	616.4	563.6	493.3	458.2	435.8	391.0	357.5
140°	629.5	659.0	629.5	600.1	592.7	547.2	486.4	456.1	436.2	396.7	367.0
142.5°	607.8	633.1	607.8	582.5	576.1	536.0	482.8	456.1	437.8	401.4	374.1
145°	575.2	594.3	575.2	556.0	551.2	518.4	474.8	453.0	437.8	407.7	385.0
147.5°	550.1	565.9	550.1	534.3	530.3	504.5	470.1	453.0	440.8	416.6	398.5
150°	534.4	547.2	534.4	521.4	518.2	496.5	467.5	453.0	442.4	421.4	405.6
152.5°	520.8	530.6	520.8	511.0	508.7	490.1	465.3	453.0	443.4	424.4	410.2
155°	505.4	511.7	505.4	498.9	497.3	482.6	462.8	453.0	445.7	431.2	420.3
157.5°	493.1	497.6	493.1	488.5	487.4	476.0	460.6	453.0	448.0	437.9	430.5
160°	485.7	488.3	485.7	483.2	482.6	472.7	459.6	453.0	449.0	441.0	435.1
162.5°	481.0	483.5	481.0	478.5	477.9	469.6	458.6	453.0	450.1	444.3	440.0
165°	474.1	476.7	474.1	471.5	470.8	464.8	457.0	453.0	451.7	449.1	447.1
167.5°	469.1	470.2	469.1	468.0	467.7	463.8	458.7	456.1	455.0	452.8	451.1
170°	467.7	467.7	467.7	467.7	467.7	463.8	458.7	456.1	456.0	455.9	455.8
172.5°	464.0	463.1	464.0	465.0	465.2	462.1	458.1	456.1	456.1	456.1	456.1
175°	461.8	461.8	461.8	461.8	461.8	460.0	457.4	456.1	456.7	458.0	458.9
177.5°	460.0	458.9	460.0	460.9	461.2	459.8	457.7	456.7	457.2	458.2	458.9
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



TEST NUMBER: P934387

CATALOG NUMBER: SQ4-FA-050U-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°	8.1	5.6	3.1	5.6	8.1	8.7	13.5	20.1	23.4	20.8	15.5
92.5°	54.2	33.3	12.4	33.3	54.2	59.5	83.6	115.7	131.8	115.4	82.9
95°	106.2	67.8	29.6	67.8	106.2	115.7	205.6	325.4	385.3	343.8	260.9
97.5°	118.7	85.0	51.1	85.0	118.7	127.2	277.0	476.7	576.5	550.3	497.8
100°	129.1	98.4	67.7	98.4	129.1	136.8	302.9	524.5	635.2	637.1	641.0
102.5°	139.1	110.6	81.9	110.6	139.1	146.3	314.8	539.5	651.9	685.2	752.1
105°	154.4	130.2	106.0	130.2	154.4	160.5	323.6	541.2	650.0	724.9	874.6
107.5°	175.7	153.2	130.6	153.2	175.7	181.4	325.3	517.1	613.0	717.4	926.3
110°	187.9	167.5	147.2	167.5	187.9	193.0	322.8	495.8	582.3	699.0	932.6



TEST NUMBER: P934387

CATALOG NUMBER: SQ4-FA-050U-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°	202.4	183.0	163.5	183.0	202.4	207.3	322.9	477.2	554.3	673.8	912.7
115°	224.0	206.1	188.1	206.1	224.0	228.5	325.9	455.8	520.7	635.8	866.0
117.5°	245.0	228.8	212.4	228.8	245.0	249.1	332.0	442.4	497.6	601.5	809.2
120°	257.3	241.9	226.6	241.9	257.3	261.2	336.8	437.8	488.3	583.3	773.1
122.5°	271.4	256.0	240.5	256.0	271.4	275.3	343.9	435.5	481.3	566.7	737.7
125°	289.9	275.8	261.7	275.8	289.9	293.4	353.5	433.6	473.6	546.2	691.4
127.5°	307.5	293.2	279.0	293.2	307.5	311.1	363.0	432.5	467.1	529.5	654.1
130°	318.9	303.6	288.2	303.6	318.9	322.7	370.0	433.1	464.6	520.1	631.2
132.5°	328.5	313.1	297.8	313.1	328.5	332.3	375.7	433.6	462.5	512.2	611.5
135°	339.8	325.9	311.9	325.9	339.8	343.3	381.9	433.2	458.9	500.5	583.7
137.5°	354.0	340.2	326.4	340.2	354.0	357.5	391.0	435.8	458.2	493.3	563.6
140°	363.8	351.2	338.4	351.2	363.8	367.0	396.7	436.2	456.1	486.4	547.2
142.5°	371.1	359.4	347.6	359.4	371.1	374.1	401.4	437.8	456.1	482.8	536.0
145°	382.4	372.1	361.8	372.1	382.4	385.0	407.7	437.8	453.0	474.8	518.4
147.5°	396.0	386.0	376.0	386.0	396.0	398.5	416.6	440.8	453.0	470.1	504.5
150°	403.3	394.3	385.3	394.3	403.3	405.6	421.4	442.4	453.0	467.5	496.5
152.5°	408.5	401.6	394.7	401.6	408.5	410.2	424.4	443.4	453.0	465.3	490.1
155°	419.0	414.0	409.0	414.0	419.0	420.3	431.2	445.7	453.0	462.8	482.6
157.5°	429.3	424.3	419.4	424.3	429.3	430.5	437.9	448.0	453.0	460.6	476.0
160°	434.1	430.3	426.5	430.3	434.1	435.1	441.0	449.0	453.0	459.6	472.7
162.5°	439.3	436.4	433.6	436.4	439.3	440.0	444.3	450.1	453.0	458.6	469.6
165°	446.4	443.8	441.2	443.8	446.4	447.1	449.1	451.7	453.0	457.0	464.8
167.5°	450.8	449.5	448.3	449.5	450.8	451.1	452.8	455.0	456.1	458.7	463.8
170°	455.5	454.2	453.0	454.2	455.5	455.8	455.9	456.0	456.1	458.7	463.8
172.5°	456.0	455.8	455.5	455.8	456.0	456.1	456.1	456.1	456.1	458.1	462.1
175°	458.9	458.9	458.9	458.9	458.9	458.9	458.0	456.7	456.1	457.4	460.0
177.5°	458.9	458.9	458.9	458.9	458.9	458.9	458.2	457.2	456.7	457.7	459.8
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



TEST NUMBER: P934387

CATALOG NUMBER: SQ4-FA-050U-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°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	15.5	20.8	23.4	20.1
92.5°	58.5	56.2	46.8	37.5	46.8	56.2	58.5	82.9	115.4	131.8	115.7
95°	198.6	191.5	163.3	135.2	163.3	191.5	198.6	260.9	343.8	385.3	325.4
97.5°	458.5	445.0	391.4	337.8	391.4	445.0	458.5	497.8	550.3	576.5	476.7
100°	643.9	628.0	564.0	500.1	564.0	628.0	643.9	641.0	637.1	635.2	524.5
102.5°	802.2	788.5	733.8	679.0	733.8	788.5	802.2	752.1	685.2	651.9	539.5
105°	986.9	979.6	950.2	920.7	950.2	979.6	986.9	874.6	724.9	650.0	541.2
107.5°	1083.0	1084.7	1091.8	1099.0	1091.8	1084.7	1083.0	926.3	717.4	613.0	517.1
110°	1107.7	1115.3	1145.9	1176.6	1145.9	1115.3	1107.7	932.6	699.0	582.3	495.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1091.9	1103.7	1150.8	1197.8	1150.8	1103.7	1091.9	912.7	673.8	554.3	477.2
115°	1038.6	1055.0	1120.2	1185.5	1120.2	1055.0	1038.6	866.0	635.8	520.7	455.8
117.5°	965.0	983.2	1055.6	1128.0	1055.6	983.2	965.0	809.2	601.5	497.6	442.4
120°	915.4	933.1	1003.4	1073.8	1003.4	933.1	915.4	773.1	583.3	488.3	437.8
122.5°	865.9	883.3	952.7	1022.0	952.7	883.3	865.9	737.7	566.7	481.3	435.5
125°	800.3	816.2	880.2	944.1	880.2	816.2	800.3	691.4	546.2	473.6	433.6
127.5°	747.6	761.0	815.0	869.0	815.0	761.0	747.6	654.1	529.5	467.1	432.5
130°	714.4	726.9	776.7	826.5	776.7	726.9	714.4	631.2	520.1	464.6	433.1
132.5°	686.0	697.2	741.8	786.4	741.8	697.2	686.0	611.5	512.2	462.5	433.6
135°	646.0	655.7	694.1	732.6	694.1	655.7	646.0	583.7	500.5	458.9	433.2
137.5°	616.4	624.3	655.9	687.3	655.9	624.3	616.4	563.6	493.3	458.2	435.8
140°	592.7	600.1	629.5	659.0	629.5	600.1	592.7	547.2	486.4	456.1	436.2
142.5°	576.1	582.5	607.8	633.1	607.8	582.5	576.1	536.0	482.8	456.1	437.8
145°	551.2	556.0	575.2	594.3	575.2	556.0	551.2	518.4	474.8	453.0	437.8
147.5°	530.3	534.3	550.1	565.9	550.1	534.3	530.3	504.5	470.1	453.0	440.8
150°	518.2	521.4	534.4	547.2	534.4	521.4	518.2	496.5	467.5	453.0	442.4
152.5°	508.7	511.0	520.8	530.6	520.8	511.0	508.7	490.1	465.3	453.0	443.4
155°	497.3	498.9	505.4	511.7	505.4	498.9	497.3	482.6	462.8	453.0	445.7
157.5°	487.4	488.5	493.1	497.6	493.1	488.5	487.4	476.0	460.6	453.0	448.0
160°	482.6	483.2	485.7	488.3	485.7	483.2	482.6	472.7	459.6	453.0	449.0
162.5°	477.9	478.5	481.0	483.5	481.0	478.5	477.9	469.6	458.6	453.0	450.1
165°	470.8	471.5	474.1	476.7	474.1	471.5	470.8	464.8	457.0	453.0	451.7
167.5°	467.7	468.0	469.1	470.2	469.1	468.0	467.7	463.8	458.7	456.1	455.0
170°	467.7	467.7	467.7	467.7	467.7	467.7	467.7	463.8	458.7	456.1	456.0
172.5°	465.2	465.0	464.0	463.1	464.0	465.0	465.2	462.1	458.1	456.1	456.1
175°	461.8	461.8	461.8	461.8	461.8	461.8	461.8	460.0	457.4	456.1	456.7
177.5°	461.2	460.9	460.0	458.9	460.0	460.9	461.2	459.8	457.7	456.7	457.2
180°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9



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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°	13.5	8.7	8.1	5.6	3.1
92.5°	83.6	59.5	54.2	33.3	12.4
95°	205.6	115.7	106.2	67.8	29.6
97.5°	277.0	127.2	118.7	85.0	51.1
100°	302.9	136.8	129.1	98.4	67.7
102.5°	314.8	146.3	139.1	110.6	81.9
105°	323.6	160.5	154.4	130.2	106.0
107.5°	325.3	181.4	175.7	153.2	130.6
110°	322.8	193.0	187.9	167.5	147.2



TEST NUMBER: P934387

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	322.9	207.3	202.4	183.0	163.5
115°	325.9	228.5	224.0	206.1	188.1
117.5°	332.0	249.1	245.0	228.8	212.4
120°	336.8	261.2	257.3	241.9	226.6
122.5°	343.9	275.3	271.4	256.0	240.5
125°	353.5	293.4	289.9	275.8	261.7
127.5°	363.0	311.1	307.5	293.2	279.0
130°	370.0	322.7	318.9	303.6	288.2
132.5°	375.7	332.3	328.5	313.1	297.8
135°	381.9	343.3	339.8	325.9	311.9
137.5°	391.0	357.5	354.0	340.2	326.4
140°	396.7	367.0	363.8	351.2	338.4
142.5°	401.4	374.1	371.1	359.4	347.6
145°	407.7	385.0	382.4	372.1	361.8
147.5°	416.6	398.5	396.0	386.0	376.0
150°	421.4	405.6	403.3	394.3	385.3
152.5°	424.4	410.2	408.5	401.6	394.7
155°	431.2	420.3	419.0	414.0	409.0
157.5°	437.9	430.5	429.3	424.3	419.4
160°	441.0	435.1	434.1	430.3	426.5
162.5°	444.3	440.0	439.3	436.4	433.6
165°	449.1	447.1	446.4	443.8	441.2
167.5°	452.8	451.1	450.8	449.5	448.3
170°	455.9	455.8	455.5	454.2	453.0
172.5°	456.1	456.1	456.0	455.8	455.5
175°	458.0	458.9	458.9	458.9	458.9
177.5°	458.2	458.9	458.9	458.9	458.9
180°	458.9	458.9	458.9	458.9	458.9



TEST NUMBER: P934387

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-6-2700K

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.42	14.36	14.31	15.27	16.42	16.25	17.18	17.13	18.09	19.24
	3H	13.91	14.75	14.80	15.66	16.84	17.60	18.44	18.50	19.35	20.53
	4H	14.10	14.90	15.01	15.82	17.00	18.04	18.84	18.96	19.76	20.95
	6H	14.22	14.96	15.15	15.88	17.08	18.33	19.06	19.26	19.99	21.19
	8H	14.23	14.92	15.16	15.87	17.07	18.41	19.10	19.34	20.05	21.25
	12H	14.20	14.86	15.14	15.80	17.03	18.45	19.11	19.39	20.05	21.28
4H	2H	14.46	15.26	15.38	16.18	17.37	16.67	17.46	17.59	18.38	19.57
	3H	15.50	16.16	16.43	17.11	18.31	18.18	18.84	19.11	19.79	20.99
	4H	15.78	16.38	16.72	17.33	18.56	18.71	19.31	19.65	20.26	21.49
	6H	15.91	16.43	16.86	17.40	18.63	19.08	19.60	20.03	20.57	21.80
	8H	15.91	16.40	16.87	17.37	18.61	19.18	19.67	20.14	20.63	21.88
	12H	15.89	16.32	16.86	17.31	18.55	19.24	19.68	20.22	20.66	21.91
8H	4H	16.24	16.72	17.19	17.69	18.93	18.84	19.32	19.79	20.29	21.53
	6H	16.50	16.90	17.48	17.91	19.15	19.28	19.68	20.26	20.69	21.93
	8H	16.54	16.90	17.53	17.89	19.15	19.43	19.78	20.42	20.78	22.04
	12H	16.53	16.84	17.53	17.83	19.14	19.53	19.84	20.52	20.83	22.14
12H	4H	16.25	16.68	17.22	17.67	18.91	18.81	19.25	19.78	20.23	21.47
	6H	16.56	16.92	17.55	17.91	19.17	19.27	19.63	20.26	20.63	21.88
	8H	16.63	16.94	17.63	17.93	19.24	19.44	19.75	20.43	20.74	22.05