

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: P933990

Luminaire Tested: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

**Test Information**

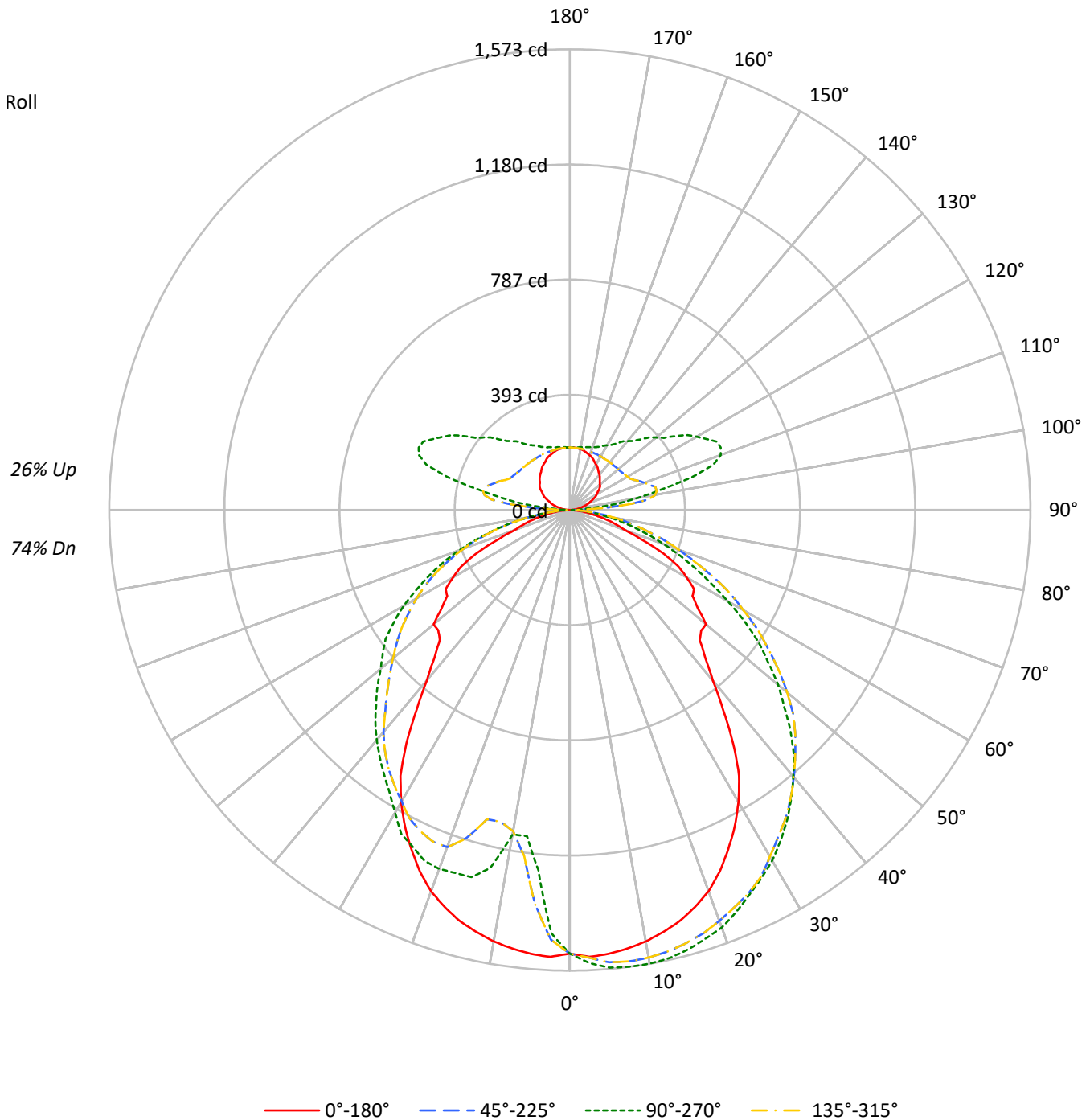
Test Method: LM-79-2019  
Report Number: P933990  
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5312.6 lumens  
Efficiency: N/A  
Efficacy: 118.1 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





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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9367	9367	9367	9367
5°	9433	9455	9433	7435
10°	9367	9314	9367	6659
15°	9262	9112	9262	7609
20°	9064	8873	9064	7625
25°	8664	8524	8664	7463
30°	8148	8235	8148	7109
35°	7261	7869	7261	6719
40°	6046	7438	6046	6424
45°	5399	6933	5399	6085
50°	5732	6332	5732	5745
55°	5387	5683	5387	5548
60°	5547	4827	5547	5082
65°	5021	3990	5021	4460
70°	3468	3180	3468	3738
75°	3031	2351	3031	2815
80°	2425	1554	2425	1692
85°	1365	823	1365	700

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8280 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.7	2.6
10°-20°	388.1	7.3
20°-30°	599.9	11.3
30°-40°	716.1	13.5
40°-50°	720.3	13.6
50°-60°	626.8	11.8
60°-70°	444.4	8.4
70°-80°	235.1	4.4
80°-90°	59.4	1.1
90°-100°	104.2	2.0
100°-110°	274.0	5.2
110°-120°	284.1	5.3
120°-130°	227.9	4.3
130°-140°	178.8	3.4
140°-150°	137.2	2.6
150°-160°	98.8	1.9
160°-170°	60.5	1.1
170°-180°	20.4	0.4
0°-30°	1124.6	21.2
0°-40°	1840.8	34.6
0°-60°	3187.9	60.0
0°-90°	3926.7	73.9
90°-120°	662.2	12.5
90°-150°	1206.1	22.7
90°-180°	1386.0	26.1
0°-180°	5312.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1514	1514	1514	1514	1514	
5°	1521	1569	1521	1233	1521	144
15°	1453	1554	1453	1298	1453	409
25°	1279	1450	1279	1269	1279	587
35°	973	1294	973	1104	973	602
45°	627	1066	627	935	627	503
55°	511	786	511	768	511	470
65°	355	474	355	530	355	340
75°	135	225	135	269	135	142
85°	23	57	23	49	23	31
90°	1	5	1	5	1	2
95°	14	63	14	63	14	15
105°	49	429	49	429	49	52
115°	88	552	88	552	88	87
125°	122	440	122	440	122	108
135°	145	341	145	341	145	112
145°	169	277	169	277	169	106
155°	190	238	190	238	190	88
165°	206	222	206	222	206	58
175°	214	215	214	215	214	20
180°	214	214	214	214	214	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1527.0	1527.0	1535.6	1538.5	1538.5	1534.2	1529.9	1534.2	1547.1	1551.4	1550.0
5°	1521.3	1532.8	1548.5	1551.4	1554.3	1552.8	1550.0	1552.8	1567.2	1570.0	1571.5
7.5°	1509.9	1531.3	1551.4	1555.7	1560.0	1555.7	1554.3	1557.1	1571.5	1574.3	1574.3
10°	1495.5	1525.6	1548.5	1551.4	1555.7	1551.4	1551.4	1557.1	1571.5	1574.3	1575.8
12.5°	1475.5	1517.0	1538.5	1541.4	1547.1	1545.7	1544.2	1550.0	1564.3	1567.2	1567.2
15°	1452.6	1501.3	1521.3	1524.2	1534.2	1531.3	1531.3	1537.1	1552.8	1557.1	1555.7
17.5°	1421.0	1481.2	1504.1	1508.4	1515.6	1514.2	1515.6	1521.3	1535.6	1538.5	1539.9
20°	1385.2	1454.0	1481.2	1485.5	1492.7	1492.7	1492.7	1499.8	1514.2	1519.9	1519.9
22.5°	1336.5	1425.3	1454.0	1456.9	1465.4	1465.4	1468.3	1478.3	1491.2	1492.7	1492.7
25°	1279.2	1393.8	1418.2	1426.8	1435.4	1439.7	1444.0	1449.7	1454.0	1452.6	1454.0
27.5°	1219.1	1353.7	1385.2	1391.0	1402.4	1406.7	1412.4	1413.9	1415.3	1419.6	1416.7
30°	1151.7	1297.8	1345.1	1350.8	1369.5	1372.3	1366.6	1369.5	1376.6	1379.5	1382.4
32.5°	1075.8	1214.8	1303.6	1316.5	1333.7	1325.1	1323.6	1327.9	1339.4	1339.4	1342.3
35°	972.7	1150.3	1264.9	1276.4	1289.2	1279.2	1285.0	1286.4	1293.5	1297.8	1296.4
37.5°	859.5	1094.4	1224.8	1233.4	1243.4	1230.5	1239.1	1243.4	1249.1	1246.3	1246.3
40°	759.2	1007.0	1177.5	1183.2	1191.8	1181.8	1190.4	1193.3	1196.1	1193.3	1191.8
42.5°	684.7	911.1	1127.4	1134.5	1128.8	1136.0	1138.8	1144.6	1140.3	1134.5	1134.5
45°	627.4	885.3	1072.9	1081.5	1072.9	1084.4	1088.7	1088.7	1075.8	1072.9	1071.5
47.5°	608.8	833.7	1018.5	1018.5	1014.2	1028.5	1035.7	1025.7	1012.8	1008.5	1008.5
50°	607.4	776.4	944.0	938.3	958.3	975.5	968.4	958.3	948.3	932.6	932.6
52.5°	551.5	706.2	848.0	869.5	901.0	911.1	899.6	889.6	872.4	865.2	859.5
55°	511.4	633.2	760.7	803.6	836.6	849.5	828.0	818.0	792.2	787.9	785.0
57.5°	502.8	527.2	680.4	734.9	775.0	773.6	760.7	742.0	720.5	716.2	714.8
60°	461.3	381.0	594.5	658.9	700.5	696.2	684.7	667.5	647.5	644.6	641.8
62.5°	418.3	276.5	497.1	570.1	628.9	627.4	617.4	591.6	577.3	570.1	564.4
65°	355.3	232.1	353.8	474.2	558.7	561.5	540.1	521.4	505.7	497.1	495.6
67.5°	270.7	189.1	239.2	395.4	491.3	488.5	461.3	452.7	432.6	428.3	419.7
70°	200.5	126.1	166.2	320.9	425.5	418.3	396.8	386.8	368.2	358.1	352.4
72.5°	166.2	101.7	121.8	249.3	358.1	349.5	330.9	319.4	303.7	295.1	289.4
75°	134.7	107.4	93.1	184.8	290.8	285.1	267.9	256.4	243.5	232.1	233.5
77.5°	98.8	100.3	74.5	136.1	230.6	222.0	212.0	197.7	192.0	180.5	180.5
80°	74.5	78.8	55.9	93.1	166.2	166.2	157.6	147.5	137.5	131.8	131.8
82.5°	50.1	50.1	41.5	58.7	113.2	108.9	103.1	100.3	94.5	91.7	91.7
85°	22.9	28.6	25.8	35.8	61.6	64.5	64.5	61.6	60.2	57.3	58.7
87.5°	7.2	12.9	15.8	20.1	31.5	32.9	34.4	34.4	34.4	35.8	35.8
90°	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.6	7.3	5.4	5.4
92.5°	5.7	15.5	25.2	27.7	39.0	54.0	61.4	53.8	38.6	27.2	26.2
95°	13.8	31.6	49.5	54.0	95.8	151.6	179.4	160.2	121.5	92.5	89.3
97.5°	23.8	39.5	55.3	59.2	129.0	222.0	268.5	256.3	232.0	213.6	207.4
100°	31.6	45.8	60.2	63.7	141.1	244.4	296.0	296.8	298.6	300.0	292.5
102.5°	38.2	51.6	64.8	68.2	146.7	251.4	303.7	319.3	350.4	373.8	367.4
105°	49.4	60.6	71.9	74.8	150.8	252.1	302.8	337.7	407.5	459.8	456.4
107.5°	60.8	71.3	81.8	84.5	151.6	240.9	285.6	334.3	431.7	504.6	505.5
110°	68.6	78.1	87.6	90.0	150.4	231.0	271.3	325.8	434.5	516.1	519.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	76.2	85.3	94.3	96.6	150.4	222.3	258.2	313.9	425.3	508.7	514.2
115°	87.7	96.1	104.4	106.5	151.8	212.3	242.6	296.2	403.5	483.9	491.5
117.5°	99.0	106.6	114.1	116.0	154.6	206.1	231.9	280.3	377.0	449.6	458.0
120°	105.6	112.8	119.9	121.7	157.0	204.1	227.6	271.8	360.2	426.6	434.8
122.5°	112.0	119.3	126.4	128.3	160.2	202.9	224.2	264.1	343.7	403.5	411.6
125°	122.0	128.5	135.1	136.8	164.7	202.1	220.7	254.5	322.2	372.9	380.4
127.5°	130.0	136.6	143.2	144.9	169.1	201.5	217.6	246.7	304.8	348.4	354.7
130°	134.3	141.4	148.5	150.3	172.4	201.8	216.5	242.4	294.0	332.8	338.6
132.5°	138.8	145.9	153.0	154.8	175.1	202.1	215.5	238.7	285.0	319.6	324.8
135°	145.4	151.8	158.3	160.0	177.9	201.9	213.8	233.2	272.0	301.0	305.5
137.5°	152.1	158.5	164.9	166.6	182.2	203.1	213.5	230.0	262.7	287.3	290.9
140°	157.7	163.6	169.5	171.0	184.9	203.3	212.5	226.6	255.0	276.2	279.6
142.5°	162.0	167.4	173.0	174.3	187.0	204.0	212.5	224.9	249.8	268.5	271.4
145°	168.6	173.3	178.1	179.3	189.9	204.0	211.1	221.2	241.5	256.8	259.0
147.5°	175.1	179.8	184.5	185.7	194.2	205.4	211.1	219.1	235.0	247.1	248.9
150°	179.4	183.6	187.9	189.0	196.3	206.2	211.1	217.8	231.3	241.4	243.0
152.5°	183.9	187.1	190.3	191.1	197.8	206.7	211.1	216.8	228.3	237.0	238.2
155°	190.5	192.9	195.3	195.9	200.9	207.7	211.1	215.6	224.8	231.7	232.4
157.5°	195.4	197.7	200.0	200.5	204.1	208.8	211.1	214.6	221.8	227.1	227.7
160°	198.7	200.5	202.3	202.7	205.5	209.2	211.1	214.1	220.2	224.8	225.1
162.5°	202.0	203.3	204.7	205.0	207.0	209.7	211.1	213.6	218.8	222.7	223.0
165°	205.6	206.8	208.0	208.3	209.2	210.5	211.1	212.9	216.6	219.4	219.6
167.5°	208.9	209.4	210.0	210.2	211.0	212.0	212.5	213.7	216.1	217.9	218.0
170°	211.1	211.6	212.2	212.3	212.4	212.5	212.5	213.7	216.1	217.9	217.9
172.5°	212.2	212.3	212.5	212.5	212.5	212.5	212.5	213.4	215.4	216.8	216.7
175°	213.8	213.8	213.8	213.8	213.3	212.8	212.5	213.1	214.3	215.3	215.3
177.5°	213.8	213.8	213.8	213.8	213.4	213.0	212.8	213.3	214.2	215.0	214.9
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1552.8	1548.5	1552.8	1550.0	1551.4	1547.1	1534.2	1529.9	1534.2	1538.5	1538.5
5°	1571.5	1568.6	1571.5	1571.5	1570.0	1567.2	1552.8	1550.0	1552.8	1554.3	1551.4
7.5°	1577.2	1572.9	1577.2	1574.3	1574.3	1571.5	1557.1	1554.3	1555.7	1560.0	1555.7
10°	1577.2	1572.9	1577.2	1575.8	1574.3	1571.5	1557.1	1551.4	1551.4	1555.7	1551.4
12.5°	1570.0	1567.2	1570.0	1567.2	1567.2	1564.3	1550.0	1544.2	1545.7	1547.1	1541.4
15°	1558.6	1554.3	1558.6	1555.7	1557.1	1552.8	1537.1	1531.3	1531.3	1534.2	1524.2
17.5°	1541.4	1535.6	1541.4	1539.9	1538.5	1535.6	1521.3	1515.6	1514.2	1515.6	1508.4
20°	1521.3	1517.0	1521.3	1519.9	1519.9	1514.2	1499.8	1492.7	1492.7	1492.7	1485.5
22.5°	1489.8	1485.5	1489.8	1492.7	1492.7	1491.2	1478.3	1468.3	1465.4	1465.4	1456.9
25°	1454.0	1449.7	1454.0	1454.0	1452.6	1454.0	1449.7	1444.0	1439.7	1435.4	1426.8
27.5°	1419.6	1416.7	1419.6	1416.7	1419.6	1415.3	1413.9	1412.4	1406.7	1402.4	1391.0
30°	1385.2	1382.4	1385.2	1382.4	1379.5	1376.6	1369.5	1366.6	1372.3	1369.5	1350.8
32.5°	1342.3	1339.4	1342.3	1342.3	1339.4	1339.4	1327.9	1323.6	1325.1	1333.7	1316.5
35°	1297.8	1293.5	1297.8	1296.4	1297.8	1293.5	1286.4	1285.0	1279.2	1289.2	1276.4
37.5°	1246.3	1242.0	1246.3	1246.3	1246.3	1249.1	1243.4	1239.1	1230.5	1243.4	1233.4
40°	1193.3	1187.5	1193.3	1191.8	1193.3	1196.1	1193.3	1190.4	1181.8	1191.8	1183.2
42.5°	1133.1	1131.7	1133.1	1134.5	1134.5	1140.3	1144.6	1138.8	1136.0	1128.8	1134.5
45°	1068.6	1065.8	1068.6	1071.5	1072.9	1075.8	1088.7	1088.7	1084.4	1072.9	1081.5
47.5°	999.9	992.7	999.9	1008.5	1008.5	1012.8	1025.7	1035.7	1028.5	1014.2	1018.5
50°	926.8	928.3	926.8	932.6	932.6	948.3	958.3	968.4	975.5	958.3	938.3
52.5°	855.2	853.8	855.2	859.5	865.2	872.4	889.6	899.6	911.1	901.0	869.5
55°	783.6	786.4	783.6	785.0	787.9	792.2	818.0	828.0	849.5	836.6	803.6
57.5°	712.0	707.7	712.0	714.8	716.2	720.5	742.0	760.7	773.6	775.0	734.9
60°	628.9	623.1	628.9	641.8	644.6	647.5	667.5	684.7	696.2	700.5	658.9
62.5°	555.8	545.8	555.8	564.4	570.1	577.3	591.6	617.4	627.4	628.9	570.1
65°	478.5	474.2	478.5	495.6	497.1	505.7	521.4	540.1	561.5	558.7	474.2
67.5°	408.3	408.3	408.3	419.7	428.3	432.6	452.7	461.3	488.5	491.3	395.4
70°	343.8	342.4	343.8	352.4	358.1	368.2	386.8	396.8	418.3	425.5	320.9
72.5°	282.2	280.8	282.2	289.4	295.1	303.7	319.4	330.9	349.5	358.1	249.3
75°	227.8	224.9	227.8	233.5	232.1	243.5	256.4	267.9	285.1	290.8	184.8
77.5°	174.8	174.8	174.8	180.5	180.5	192.0	197.7	212.0	222.0	230.6	136.1
80°	130.4	128.9	130.4	131.8	131.8	137.5	147.5	157.6	166.2	166.2	93.1
82.5°	91.7	88.8	91.7	91.7	91.7	94.5	100.3	103.1	108.9	113.2	58.7
85°	57.3	57.3	57.3	58.7	57.3	60.2	61.6	64.5	64.5	61.6	35.8
87.5°	37.2	35.8	37.2	35.8	35.8	34.4	34.4	34.4	32.9	31.5	20.1
90°	5.4	5.4	5.4	5.4	5.4	7.3	9.6	10.9	9.4	6.3	4.0
92.5°	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.4	54.0	39.0	27.7
95°	76.1	63.0	76.1	89.3	92.5	121.5	160.2	179.4	151.6	95.8	54.0
97.5°	182.4	157.4	182.4	207.4	213.6	232.0	256.3	268.5	222.0	129.0	59.2
100°	262.8	233.0	262.8	292.5	300.0	298.6	296.8	296.0	244.4	141.1	63.7
102.5°	341.9	316.4	341.9	367.4	373.8	350.4	319.3	303.7	251.4	146.7	68.2
105°	442.7	429.0	442.7	456.4	459.8	407.5	337.7	302.8	252.1	150.8	74.8
107.5°	508.7	512.1	508.7	505.5	504.6	431.7	334.3	285.6	240.9	151.6	84.5
110°	533.9	548.3	533.9	519.6	516.1	434.5	325.8	271.3	231.0	150.4	90.0





TEST NUMBER: P933990

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	536.1	558.1	536.1	514.2	508.7	425.3	313.9	258.2	222.3	150.4	96.6
115°	521.9	552.4	521.9	491.5	483.9	403.5	296.2	242.6	212.3	151.8	106.5
117.5°	491.8	525.5	491.8	458.0	449.6	377.0	280.3	231.9	206.1	154.6	116.0
120°	467.6	500.3	467.6	434.8	426.6	360.2	271.8	227.6	204.1	157.0	121.7
122.5°	443.9	476.2	443.9	411.6	403.5	343.7	264.1	224.2	202.9	160.2	128.3
125°	410.1	439.9	410.1	380.4	372.9	322.2	254.5	220.7	202.1	164.7	136.8
127.5°	379.8	404.9	379.8	354.7	348.4	304.8	246.7	217.6	201.5	169.1	144.9
130°	361.8	385.1	361.8	338.6	332.8	294.0	242.4	216.5	201.8	172.4	150.3
132.5°	345.6	366.4	345.6	324.8	319.6	285.0	238.7	215.5	202.1	175.1	154.8
135°	323.4	341.3	323.4	305.5	301.0	272.0	233.2	213.8	201.9	177.9	160.0
137.5°	305.6	320.2	305.6	290.9	287.3	262.7	230.0	213.5	203.1	182.2	166.6
140°	293.3	307.0	293.3	279.6	276.2	255.0	226.6	212.5	203.3	184.9	171.0
142.5°	283.2	295.0	283.2	271.4	268.5	249.8	224.9	212.5	204.0	187.0	174.3
145°	268.0	277.0	268.0	259.0	256.8	241.5	221.2	211.1	204.0	189.9	179.3
147.5°	256.3	263.7	256.3	248.9	247.1	235.0	219.1	211.1	205.4	194.2	185.7
150°	249.0	255.0	249.0	243.0	241.4	231.3	217.8	211.1	206.2	196.3	189.0
152.5°	242.7	247.2	242.7	238.2	237.0	228.3	216.8	211.1	206.7	197.8	191.1
155°	235.4	238.5	235.4	232.4	231.7	224.8	215.6	211.1	207.7	200.9	195.9
157.5°	229.8	231.9	229.8	227.7	227.1	221.8	214.6	211.1	208.8	204.1	200.5
160°	226.3	227.6	226.3	225.1	224.8	220.2	214.1	211.1	209.2	205.5	202.7
162.5°	224.1	225.3	224.1	223.0	222.7	218.8	213.6	211.1	209.7	207.0	205.0
165°	220.9	222.1	220.9	219.6	219.4	216.6	212.9	211.1	210.5	209.2	208.3
167.5°	218.6	219.1	218.6	218.0	217.9	216.1	213.7	212.5	212.0	211.0	210.2
170°	217.9	217.9	217.9	217.9	217.9	216.1	213.7	212.5	212.5	212.4	212.3
172.5°	216.2	215.8	216.2	216.7	216.8	215.4	213.4	212.5	212.5	212.5	212.5
175°	215.3	215.3	215.3	215.3	215.3	214.3	213.1	212.5	212.8	213.3	213.8
177.5°	214.3	213.8	214.3	214.9	215.0	214.2	213.3	212.8	213.0	213.4	213.8
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P933990

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1535.6	1527.0	1527.0	1512.7	1507.0	1502.7	1495.5	1474.0	1468.3	1462.6	1471.2
5°	1548.5	1532.8	1521.3	1495.5	1474.0	1465.4	1438.2	1386.7	1352.3	1326.5	1312.2
7.5°	1551.4	1531.3	1509.9	1469.7	1418.2	1395.3	1312.2	1217.6	1191.8	1168.9	1154.6
10°	1548.5	1525.6	1495.5	1435.4	1313.6	1273.5	1190.4	1128.8	1113.1	1108.8	1113.1
12.5°	1538.5	1517.0	1475.5	1375.2	1204.7	1177.5	1128.8	1093.0	1090.1	1097.3	1136.0
15°	1521.3	1501.3	1452.6	1295.0	1144.6	1124.5	1090.1	1077.2	1093.0	1143.1	1259.2
17.5°	1504.1	1481.2	1421.0	1216.2	1098.7	1084.4	1060.0	1085.8	1174.6	1242.0	1280.7
20°	1481.2	1454.0	1385.2	1158.9	1065.8	1052.9	1041.4	1157.5	1224.8	1249.1	1270.6
22.5°	1454.0	1425.3	1336.5	1118.8	1031.4	1021.4	1028.5	1197.6	1224.8	1242.0	1260.6
25°	1418.2	1393.8	1279.2	1087.3	1004.2	992.7	1019.9	1193.3	1209.0	1213.3	1250.6
27.5°	1385.2	1353.7	1219.1	1058.6	971.2	966.9	1027.1	1174.6	1186.1	1190.4	1230.5
30°	1345.1	1297.8	1151.7	1028.5	936.9	935.4	1028.5	1151.7	1148.9	1160.3	1200.4
32.5°	1303.6	1214.8	1075.8	991.3	903.9	902.5	1018.5	1117.4	1114.5	1130.2	1160.3
35°	1264.9	1150.3	972.7	948.3	862.4	863.8	994.2	1077.2	1078.7	1093.0	1111.6
37.5°	1224.8	1094.4	859.5	901.0	822.3	822.3	961.2	1040.0	1037.1	1041.4	1067.2
40°	1177.5	1007.0	759.2	839.4	785.0	780.7	921.1	999.9	989.9	988.4	1024.2
42.5°	1127.4	911.1	684.7	757.8	742.0	736.3	872.4	951.2	932.6	936.9	982.7
45°	1072.9	885.3	627.4	640.3	697.6	693.3	819.4	895.3	882.4	893.9	941.2
47.5°	1018.5	833.7	608.8	531.5	650.4	648.9	760.7	840.9	833.7	845.2	895.3
50°	944.0	776.4	607.4	455.5	597.4	603.1	690.5	787.9	787.9	797.9	850.9
52.5°	848.0	706.2	551.5	412.6	535.8	552.9	628.9	742.0	744.9	754.9	802.2
55°	760.7	633.2	511.4	379.6	462.7	499.9	568.7	694.8	700.5	710.5	753.5
57.5°	680.4	527.2	502.8	340.9	395.4	431.2	515.7	648.9	651.8	660.4	701.9
60°	594.5	381.0	461.3	299.4	336.6	363.9	467.0	594.5	604.5	610.2	646.1
62.5°	497.1	276.5	418.3	270.7	308.0	313.7	426.9	542.9	555.8	560.1	581.6
65°	353.8	232.1	355.3	246.4	277.9	279.3	383.9	489.9	501.4	508.5	524.3
67.5°	239.2	189.1	270.7	223.5	255.0	256.4	342.4	428.3	444.1	449.8	459.8
70°	166.2	126.1	200.5	199.1	229.2	232.1	298.0	372.4	386.8	391.1	396.8
72.5°	121.8	101.7	166.2	179.1	202.0	204.8	252.1	309.4	323.7	328.0	330.9
75°	93.1	107.4	134.7	156.1	171.9	173.3	206.3	252.1	262.1	265.0	266.4
77.5°	74.5	100.3	98.8	126.1	140.4	137.5	161.9	194.8	203.4	203.4	203.4
80°	55.9	78.8	74.5	90.2	103.1	100.3	116.0	139.0	141.8	144.7	143.2
82.5°	41.5	50.1	50.1	57.3	68.8	65.9	77.4	90.2	90.2	90.2	93.1
85°	25.8	28.6	22.9	30.1	38.7	37.2	43.0	48.7	50.1	50.1	47.3
87.5°	15.8	12.9	7.2	11.5	17.2	17.2	20.1	21.5	20.1	20.1	20.1
90°	3.7	2.6	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.6	7.3
92.5°	25.2	15.5	5.7	15.5	25.2	27.7	39.0	54.0	61.4	53.8	38.6
95°	49.5	31.6	13.8	31.6	49.5	54.0	95.8	151.6	179.4	160.2	121.5
97.5°	55.3	39.5	23.8	39.5	55.3	59.2	129.0	222.0	268.5	256.3	232.0
100°	60.2	45.8	31.6	45.8	60.2	63.7	141.1	244.4	296.0	296.8	298.6
102.5°	64.8	51.6	38.2	51.6	64.8	68.2	146.7	251.4	303.7	319.3	350.4
105°	71.9	60.6	49.4	60.6	71.9	74.8	150.8	252.1	302.8	337.7	407.5
107.5°	81.8	71.3	60.8	71.3	81.8	84.5	151.6	240.9	285.6	334.3	431.7
110°	87.6	78.1	68.6	78.1	87.6	90.0	150.4	231.0	271.3	325.8	434.5



TEST NUMBER: P933990

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	94.3	85.3	76.2	85.3	94.3	96.6	150.4	222.3	258.2	313.9	425.3
115°	104.4	96.1	87.7	96.1	104.4	106.5	151.8	212.3	242.6	296.2	403.5
117.5°	114.1	106.6	99.0	106.6	114.1	116.0	154.6	206.1	231.9	280.3	377.0
120°	119.9	112.8	105.6	112.8	119.9	121.7	157.0	204.1	227.6	271.8	360.2
122.5°	126.4	119.3	112.0	119.3	126.4	128.3	160.2	202.9	224.2	264.1	343.7
125°	135.1	128.5	122.0	128.5	135.1	136.8	164.7	202.1	220.7	254.5	322.2
127.5°	143.2	136.6	130.0	136.6	143.2	144.9	169.1	201.5	217.6	246.7	304.8
130°	148.5	141.4	134.3	141.4	148.5	150.3	172.4	201.8	216.5	242.4	294.0
132.5°	153.0	145.9	138.8	145.9	153.0	154.8	175.1	202.1	215.5	238.7	285.0
135°	158.3	151.8	145.4	151.8	158.3	160.0	177.9	201.9	213.8	233.2	272.0
137.5°	164.9	158.5	152.1	158.5	164.9	166.6	182.2	203.1	213.5	230.0	262.7
140°	169.5	163.6	157.7	163.6	169.5	171.0	184.9	203.3	212.5	226.6	255.0
142.5°	173.0	167.4	162.0	167.4	173.0	174.3	187.0	204.0	212.5	224.9	249.8
145°	178.1	173.3	168.6	173.3	178.1	179.3	189.9	204.0	211.1	221.2	241.5
147.5°	184.5	179.8	175.1	179.8	184.5	185.7	194.2	205.4	211.1	219.1	235.0
150°	187.9	183.6	179.4	183.6	187.9	189.0	196.3	206.2	211.1	217.8	231.3
152.5°	190.3	187.1	183.9	187.1	190.3	191.1	197.8	206.7	211.1	216.8	228.3
155°	195.3	192.9	190.5	192.9	195.3	195.9	200.9	207.7	211.1	215.6	224.8
157.5°	200.0	197.7	195.4	197.7	200.0	200.5	204.1	208.8	211.1	214.6	221.8
160°	202.3	200.5	198.7	200.5	202.3	202.7	205.5	209.2	211.1	214.1	220.2
162.5°	204.7	203.3	202.0	203.3	204.7	205.0	207.0	209.7	211.1	213.6	218.8
165°	208.0	206.8	205.6	206.8	208.0	208.3	209.2	210.5	211.1	212.9	216.6
167.5°	210.0	209.4	208.9	209.4	210.0	210.2	211.0	212.0	212.5	213.7	216.1
170°	212.2	211.6	211.1	211.6	212.2	212.3	212.4	212.5	212.5	213.7	216.1
172.5°	212.5	212.3	212.2	212.3	212.5	212.5	212.5	212.5	212.5	213.4	215.4
175°	213.8	213.8	213.8	213.8	213.8	213.8	213.3	212.8	212.5	213.1	214.3
177.5°	213.8	213.8	213.8	213.8	213.8	213.8	213.4	213.0	212.8	213.3	214.2
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P933990

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1461.1	1456.9	1462.6	1446.8	1462.6	1456.9	1461.1	1471.2	1462.6	1468.3	1474.0
5°	1282.1	1274.9	1252.0	1233.4	1252.0	1274.9	1282.1	1312.2	1326.5	1352.3	1386.7
7.5°	1146.0	1140.3	1134.5	1123.1	1134.5	1140.3	1146.0	1154.6	1168.9	1191.8	1217.6
10°	1115.9	1117.4	1125.9	1124.5	1125.9	1117.4	1115.9	1113.1	1108.8	1113.1	1128.8
12.5°	1193.3	1206.2	1253.4	1250.6	1253.4	1206.2	1193.3	1136.0	1097.3	1090.1	1093.0
15°	1282.1	1286.4	1296.4	1297.8	1296.4	1286.4	1282.1	1259.2	1143.1	1093.0	1077.2
17.5°	1290.7	1292.1	1299.3	1299.3	1299.3	1292.1	1290.7	1280.7	1242.0	1174.6	1085.8
20°	1283.5	1286.4	1300.7	1303.6	1300.7	1286.4	1283.5	1270.6	1249.1	1224.8	1157.5
22.5°	1280.7	1286.4	1297.8	1296.4	1297.8	1286.4	1280.7	1260.6	1242.0	1224.8	1197.6
25°	1266.3	1266.3	1267.8	1269.2	1267.8	1266.3	1266.3	1250.6	1213.3	1209.0	1193.3
27.5°	1236.2	1239.1	1247.7	1246.3	1247.7	1239.1	1236.2	1230.5	1190.4	1186.1	1174.6
30°	1209.0	1206.2	1199.0	1193.3	1199.0	1206.2	1209.0	1200.4	1160.3	1148.9	1151.7
32.5°	1163.2	1156.0	1148.9	1144.6	1148.9	1156.0	1163.2	1160.3	1130.2	1114.5	1117.4
35°	1108.8	1110.2	1108.8	1104.5	1108.8	1110.2	1108.8	1111.6	1093.0	1078.7	1077.2
37.5°	1070.1	1072.9	1071.5	1065.8	1071.5	1072.9	1070.1	1067.2	1041.4	1037.1	1040.0
40°	1030.0	1031.4	1030.0	1025.7	1030.0	1031.4	1030.0	1024.2	988.4	989.9	999.9
42.5°	991.3	989.9	985.6	982.7	985.6	989.9	991.3	982.7	936.9	932.6	951.2
45°	946.9	948.3	939.7	935.4	939.7	948.3	946.9	941.2	893.9	882.4	895.3
47.5°	902.5	902.5	895.3	891.0	895.3	902.5	902.5	895.3	845.2	833.7	840.9
50°	855.2	853.8	843.7	842.3	843.7	853.8	855.2	850.9	797.9	787.9	787.9
52.5°	800.8	800.8	802.2	805.1	802.2	800.8	800.8	802.2	754.9	744.9	742.0
55°	753.5	754.9	765.0	767.8	765.0	754.9	753.5	753.5	710.5	700.5	694.8
57.5°	704.8	704.8	712.0	712.0	712.0	704.8	704.8	701.9	660.4	651.8	648.9
60°	648.9	651.8	657.5	656.1	657.5	651.8	648.9	646.1	610.2	604.5	594.5
62.5°	590.2	593.1	594.5	591.6	594.5	593.1	590.2	581.6	560.1	555.8	542.9
65°	528.6	531.5	532.9	530.0	532.9	531.5	528.6	524.3	508.5	501.4	489.9
67.5°	465.6	464.1	462.7	468.4	462.7	464.1	465.6	459.8	449.8	444.1	428.3
70°	401.1	401.1	399.7	402.5	399.7	401.1	401.1	396.8	391.1	386.8	372.4
72.5°	332.3	330.9	336.6	332.3	336.6	330.9	332.3	330.9	328.0	323.7	309.4
75°	265.0	267.9	265.0	269.3	265.0	267.9	265.0	266.4	265.0	262.1	252.1
77.5°	202.0	204.8	202.0	202.0	202.0	204.8	202.0	203.4	203.4	203.4	194.8
80°	143.2	141.8	141.8	140.4	141.8	141.8	143.2	143.2	144.7	141.8	139.0
82.5°	91.7	90.2	90.2	93.1	90.2	90.2	91.7	93.1	90.2	90.2	90.2
85°	50.1	51.6	48.7	48.7	48.7	51.6	50.1	47.3	50.1	50.1	48.7
87.5°	18.6	17.2	17.2	17.2	17.2	17.2	18.6	20.1	20.1	20.1	21.5
90°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.3	9.6	10.9	9.4
92.5°	27.2	26.2	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.4	54.0
95°	92.5	89.3	76.1	63.0	76.1	89.3	92.5	121.5	160.2	179.4	151.6
97.5°	213.6	207.4	182.4	157.4	182.4	207.4	213.6	232.0	256.3	268.5	222.0
100°	300.0	292.5	262.8	233.0	262.8	292.5	300.0	298.6	296.8	296.0	244.4
102.5°	373.8	367.4	341.9	316.4	341.9	367.4	373.8	350.4	319.3	303.7	251.4
105°	459.8	456.4	442.7	429.0	442.7	456.4	459.8	407.5	337.7	302.8	252.1
107.5°	504.6	505.5	508.7	512.1	508.7	505.5	504.6	431.7	334.3	285.6	240.9
110°	516.1	519.6	533.9	548.3	533.9	519.6	516.1	434.5	325.8	271.3	231.0



TEST NUMBER: P933990

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	508.7	514.2	536.1	558.1	536.1	514.2	508.7	425.3	313.9	258.2	222.3
115°	483.9	491.5	521.9	552.4	521.9	491.5	483.9	403.5	296.2	242.6	212.3
117.5°	449.6	458.0	491.8	525.5	491.8	458.0	449.6	377.0	280.3	231.9	206.1
120°	426.6	434.8	467.6	500.3	467.6	434.8	426.6	360.2	271.8	227.6	204.1
122.5°	403.5	411.6	443.9	476.2	443.9	411.6	403.5	343.7	264.1	224.2	202.9
125°	372.9	380.4	410.1	439.9	410.1	380.4	372.9	322.2	254.5	220.7	202.1
127.5°	348.4	354.7	379.8	404.9	379.8	354.7	348.4	304.8	246.7	217.6	201.5
130°	332.8	338.6	361.8	385.1	361.8	338.6	332.8	294.0	242.4	216.5	201.8
132.5°	319.6	324.8	345.6	366.4	345.6	324.8	319.6	285.0	238.7	215.5	202.1
135°	301.0	305.5	323.4	341.3	323.4	305.5	301.0	272.0	233.2	213.8	201.9
137.5°	287.3	290.9	305.6	320.2	305.6	290.9	287.3	262.7	230.0	213.5	203.1
140°	276.2	279.6	293.3	307.0	293.3	279.6	276.2	255.0	226.6	212.5	203.3
142.5°	268.5	271.4	283.2	295.0	283.2	271.4	268.5	249.8	224.9	212.5	204.0
145°	256.8	259.0	268.0	277.0	268.0	259.0	256.8	241.5	221.2	211.1	204.0
147.5°	247.1	248.9	256.3	263.7	256.3	248.9	247.1	235.0	219.1	211.1	205.4
150°	241.4	243.0	249.0	255.0	249.0	243.0	241.4	231.3	217.8	211.1	206.2
152.5°	237.0	238.2	242.7	247.2	242.7	238.2	237.0	228.3	216.8	211.1	206.7
155°	231.7	232.4	235.4	238.5	235.4	232.4	231.7	224.8	215.6	211.1	207.7
157.5°	227.1	227.7	229.8	231.9	229.8	227.7	227.1	221.8	214.6	211.1	208.8
160°	224.8	225.1	226.3	227.6	226.3	225.1	224.8	220.2	214.1	211.1	209.2
162.5°	222.7	223.0	224.1	225.3	224.1	223.0	222.7	218.8	213.6	211.1	209.7
165°	219.4	219.6	220.9	222.1	220.9	219.6	219.4	216.6	212.9	211.1	210.5
167.5°	217.9	218.0	218.6	219.1	218.6	218.0	217.9	216.1	213.7	212.5	212.0
170°	217.9	217.9	217.9	217.9	217.9	217.9	217.9	216.1	213.7	212.5	212.5
172.5°	216.8	216.7	216.2	215.8	216.2	216.7	216.8	215.4	213.4	212.5	212.5
175°	215.3	215.3	215.3	215.3	215.3	215.3	215.3	214.3	213.1	212.5	212.8
177.5°	215.0	214.9	214.3	213.8	214.3	214.9	215.0	214.2	213.3	212.8	213.0
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1495.5	1502.7	1507.0	1512.7	1527.0
5°	1438.2	1465.4	1474.0	1495.5	1521.3
7.5°	1312.2	1395.3	1418.2	1469.7	1509.9
10°	1190.4	1273.5	1313.6	1435.4	1495.5
12.5°	1128.8	1177.5	1204.7	1375.2	1475.5
15°	1090.1	1124.5	1144.6	1295.0	1452.6
17.5°	1060.0	1084.4	1098.7	1216.2	1421.0
20°	1041.4	1052.9	1065.8	1158.9	1385.2
22.5°	1028.5	1021.4	1031.4	1118.8	1336.5
25°	1019.9	992.7	1004.2	1087.3	1279.2
27.5°	1027.1	966.9	971.2	1058.6	1219.1
30°	1028.5	935.4	936.9	1028.5	1151.7
32.5°	1018.5	902.5	903.9	991.3	1075.8
35°	994.2	863.8	862.4	948.3	972.7
37.5°	961.2	822.3	822.3	901.0	859.5
40°	921.1	780.7	785.0	839.4	759.2
42.5°	872.4	736.3	742.0	757.8	684.7
45°	819.4	693.3	697.6	640.3	627.4
47.5°	760.7	648.9	650.4	531.5	608.8
50°	690.5	603.1	597.4	455.5	607.4
52.5°	628.9	552.9	535.8	412.6	551.5
55°	568.7	499.9	462.7	379.6	511.4
57.5°	515.7	431.2	395.4	340.9	502.8
60°	467.0	363.9	336.6	299.4	461.3
62.5°	426.9	313.7	308.0	270.7	418.3
65°	383.9	279.3	277.9	246.4	355.3
67.5°	342.4	256.4	255.0	223.5	270.7
70°	298.0	232.1	229.2	199.1	200.5
72.5°	252.1	204.8	202.0	179.1	166.2
75°	206.3	173.3	171.9	156.1	134.7
77.5°	161.9	137.5	140.4	126.1	98.8
80°	116.0	100.3	103.1	90.2	74.5
82.5°	77.4	65.9	68.8	57.3	50.1
85°	43.0	37.2	38.7	30.1	22.9
87.5°	20.1	17.2	17.2	11.5	7.2
90°	6.3	4.0	3.7	2.6	1.4
92.5°	39.0	27.7	25.2	15.5	5.7
95°	95.8	54.0	49.5	31.6	13.8
97.5°	129.0	59.2	55.3	39.5	23.8
100°	141.1	63.7	60.2	45.8	31.6
102.5°	146.7	68.2	64.8	51.6	38.2
105°	150.8	74.8	71.9	60.6	49.4
107.5°	151.6	84.5	81.8	71.3	60.8
110°	150.4	90.0	87.6	78.1	68.6



TEST NUMBER: P933990

CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	150.4	96.6	94.3	85.3	76.2
115°	151.8	106.5	104.4	96.1	87.7
117.5°	154.6	116.0	114.1	106.6	99.0
120°	157.0	121.7	119.9	112.8	105.6
122.5°	160.2	128.3	126.4	119.3	112.0
125°	164.7	136.8	135.1	128.5	122.0
127.5°	169.1	144.9	143.2	136.6	130.0
130°	172.4	150.3	148.5	141.4	134.3
132.5°	175.1	154.8	153.0	145.9	138.8
135°	177.9	160.0	158.3	151.8	145.4
137.5°	182.2	166.6	164.9	158.5	152.1
140°	184.9	171.0	169.5	163.6	157.7
142.5°	187.0	174.3	173.0	167.4	162.0
145°	189.9	179.3	178.1	173.3	168.6
147.5°	194.2	185.7	184.5	179.8	175.1
150°	196.3	189.0	187.9	183.6	179.4
152.5°	197.8	191.1	190.3	187.1	183.9
155°	200.9	195.9	195.3	192.9	190.5
157.5°	204.1	200.5	200.0	197.7	195.4
160°	205.5	202.7	202.3	200.5	198.7
162.5°	207.0	205.0	204.7	203.3	202.0
165°	209.2	208.3	208.0	206.8	205.6
167.5°	211.0	210.2	210.0	209.4	208.9
170°	212.4	212.3	212.2	211.6	211.1
172.5°	212.5	212.5	212.5	212.3	212.2
175°	213.3	213.8	213.8	213.8	213.8
177.5°	213.4	213.8	213.8	213.8	213.8
180°	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P933990  
 CATALOG NUMBER: SQ4-FA-025U-075D-B2750-1D-UNV-STD-W-6-4000K

**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	14.54	15.67	15.26	16.41	17.29	17.36	18.49	18.09	19.23	20.12
	3H	15.04	16.05	15.77	16.80	17.72	18.73	19.74	19.46	20.49	21.41
	4H	15.24	16.20	15.99	16.96	17.88	19.18	20.14	19.94	20.90	21.83
	6H	15.37	16.25	16.14	17.02	17.97	19.48	20.36	20.25	21.13	22.07
	8H	15.38	16.22	16.16	17.01	17.95	19.56	20.40	20.34	21.19	22.13
	12H	15.36	16.16	16.14	16.95	17.92	19.61	20.41	20.39	21.19	22.16
4H	2H	15.60	16.56	16.36	17.32	18.25	17.81	18.76	18.56	19.52	20.45
	3H	16.66	17.45	17.42	18.25	19.19	19.33	20.13	20.10	20.93	21.87
	4H	16.94	17.66	17.73	18.46	19.43	19.87	20.60	20.66	21.39	22.36
	6H	17.08	17.71	17.88	18.53	19.51	20.25	20.88	21.05	21.70	22.68
	8H	17.09	17.68	17.90	18.50	19.49	20.36	20.95	21.17	21.77	22.76
	12H	17.07	17.60	17.90	18.44	19.44	20.43	20.96	21.26	21.80	22.79
8H	4H	17.42	18.00	18.22	18.82	19.81	20.02	20.60	20.82	21.42	22.41
	6H	17.69	18.17	18.52	19.03	20.02	20.46	20.95	21.30	21.81	22.80
	8H	17.73	18.16	18.58	19.02	20.03	20.62	21.05	21.46	21.90	22.91
	12H	17.73	18.11	18.58	18.96	20.02	20.73	21.11	21.58	21.95	23.02
12H	4H	17.43	17.96	18.26	18.80	19.80	20.00	20.52	20.82	21.36	22.36
	6H	17.75	18.18	18.60	19.04	20.05	20.46	20.90	21.31	21.75	22.76
	8H	17.83	18.21	18.68	19.06	20.12	20.64	21.02	21.49	21.86	22.93