

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: P933915

Luminaire Tested: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

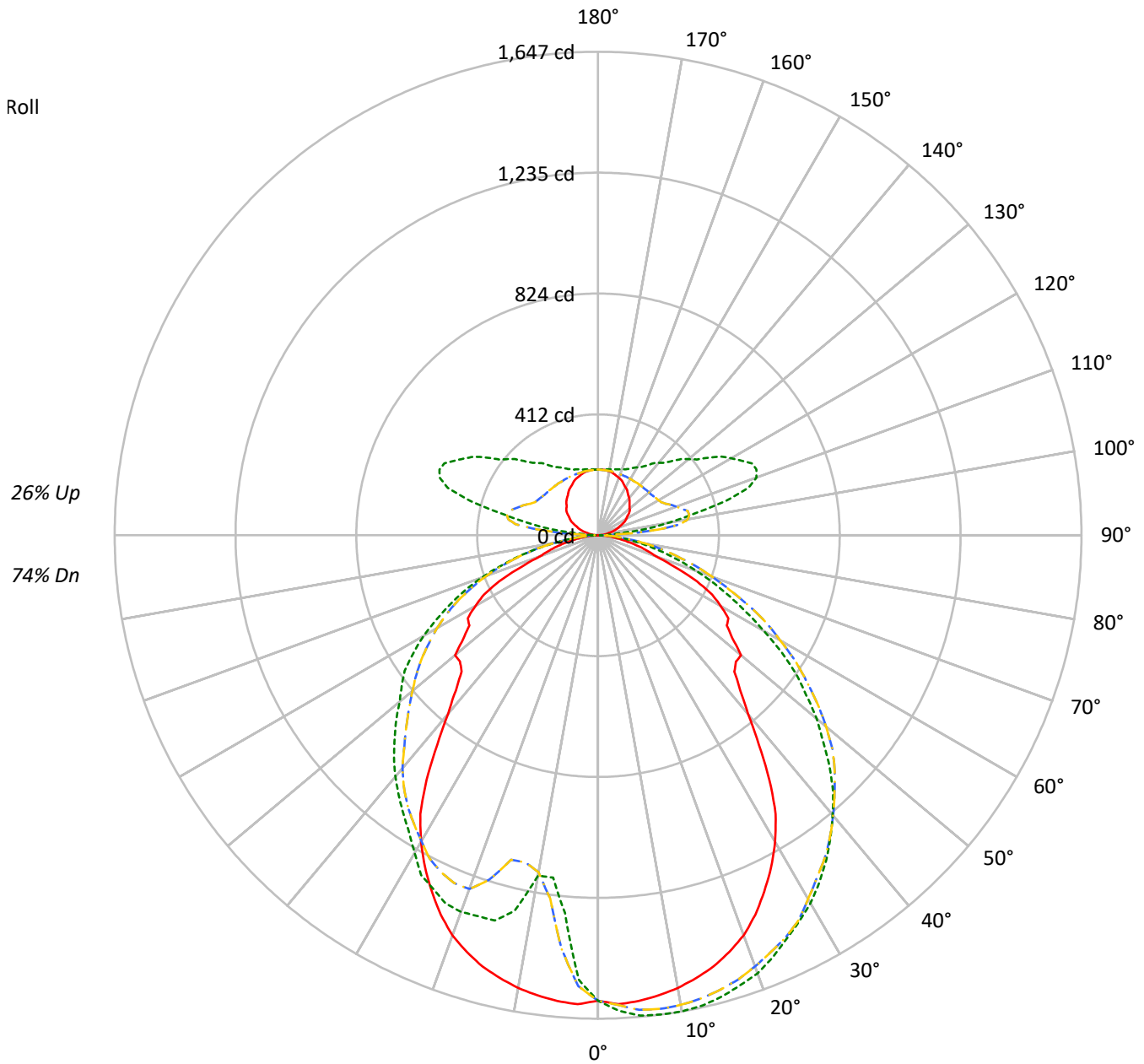
Test Method: LM-79-2019  
Report Number: P933915  
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5562.9 lumens  
Efficiency: N/A  
Efficacy: 123.6 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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CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

### 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°	9808	9808	9808	9808
5°	9878	9901	9878	7785
10°	9808	9753	9808	6973
15°	9698	9542	9698	7967
20°	9491	9291	9491	7984
25°	9072	8926	9072	7815
30°	8533	8623	8533	7443
35°	7603	8240	7603	7035
40°	6331	7788	6331	6727
45°	5654	7260	5654	6372
50°	6002	6630	6002	6016
55°	5641	5951	5641	5810
60°	5808	5054	5808	5321
65°	5257	4178	5257	4670
70°	3632	3330	3632	3915
75°	3173	2461	3173	2947
80°	2539	1627	2539	1772
85°	1431	862	1431	733

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8671 cd/sqm



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CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	2.6
10°-20°	406.4	7.3
20°-30°	628.2	11.3
30°-40°	749.9	13.5
40°-50°	754.3	13.6
50°-60°	656.3	11.8
60°-70°	465.3	8.4
70°-80°	246.2	4.4
80°-90°	62.2	1.1
90°-100°	109.1	2.0
100°-110°	286.9	5.2
110°-120°	297.5	5.3
120°-130°	238.6	4.3
130°-140°	187.2	3.4
140°-150°	143.7	2.6
150°-160°	103.5	1.9
160°-170°	63.3	1.1
170°-180°	21.4	0.4
0°-30°	1177.6	21.2
0°-40°	1927.5	34.6
0°-60°	3338.1	60.0
0°-90°	4111.8	73.9
90°-120°	693.4	12.5
90°-150°	1262.9	22.7
90°-180°	1451.0	26.1
0°-180°	5562.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1586	1586	1586	1586	1586	
5°	1593	1642	1593	1292	1593	151
15°	1521	1628	1521	1359	1521	428
25°	1340	1518	1340	1329	1340	615
35°	1018	1354	1018	1156	1018	630
45°	657	1116	657	980	657	526
55°	536	824	536	804	536	492
65°	372	496	372	555	372	356
75°	141	236	141	282	141	148
85°	24	60	24	51	24	32
90°	2	6	2	6	2	2
95°	14	66	14	66	14	16
105°	52	449	52	449	52	55
115°	92	578	92	578	92	91
125°	128	461	128	461	128	113
135°	152	357	152	357	152	118
145°	176	290	176	290	176	111
155°	200	250	200	250	200	92
165°	215	233	215	233	215	61
175°	224	225	224	225	224	21
180°	224	224	224	224	224	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5
2.5°	1599.0	1599.0	1608.0	1611.0	1611.0	1606.5	1602.0	1606.5	1620.0	1624.5	1623.0
5°	1593.0	1605.0	1621.5	1624.5	1627.5	1626.0	1623.0	1626.0	1641.0	1644.0	1645.5
7.5°	1581.0	1603.5	1624.5	1629.0	1633.5	1629.0	1627.5	1630.5	1645.5	1648.5	1648.5
10°	1566.0	1597.5	1621.5	1624.5	1629.0	1624.5	1624.5	1630.5	1645.5	1648.5	1650.0
12.5°	1545.0	1588.5	1611.0	1614.0	1620.0	1618.5	1617.0	1623.0	1638.0	1641.0	1641.0
15°	1521.0	1572.0	1593.0	1596.0	1606.5	1603.5	1603.5	1609.5	1626.0	1630.5	1629.0
17.5°	1488.0	1551.0	1575.0	1579.5	1587.0	1585.5	1587.0	1593.0	1608.0	1611.0	1612.5
20°	1450.5	1522.5	1551.0	1555.5	1563.0	1563.0	1563.0	1570.5	1585.5	1591.5	1591.5
22.5°	1399.5	1492.5	1522.5	1525.5	1534.5	1534.5	1537.5	1548.0	1561.5	1563.0	1563.0
25°	1339.5	1459.5	1485.0	1494.0	1503.0	1507.5	1512.0	1518.0	1522.5	1521.0	1522.5
27.5°	1276.5	1417.5	1450.5	1456.5	1468.5	1473.0	1479.0	1480.5	1482.0	1486.5	1483.5
30°	1206.0	1359.0	1408.5	1414.5	1434.0	1437.0	1431.0	1434.0	1441.5	1444.5	1447.5
32.5°	1126.5	1272.0	1365.0	1378.5	1396.5	1387.5	1386.0	1390.5	1402.5	1402.5	1405.5
35°	1018.5	1204.5	1324.5	1336.5	1350.0	1339.5	1345.5	1347.0	1354.5	1359.0	1357.5
37.5°	900.0	1146.0	1282.5	1291.5	1302.0	1288.5	1297.5	1302.0	1308.0	1305.0	1305.0
40°	795.0	1054.5	1233.0	1239.0	1248.0	1237.5	1246.5	1249.5	1252.5	1249.5	1248.0
42.5°	717.0	954.0	1180.5	1188.0	1182.0	1189.5	1192.5	1198.5	1194.0	1188.0	1188.0
45°	657.0	927.0	1123.5	1132.5	1123.5	1135.5	1140.0	1140.0	1126.5	1123.5	1122.0
47.5°	637.5	873.0	1066.5	1066.5	1062.0	1077.0	1084.5	1074.0	1060.5	1056.0	1056.0
50°	636.0	813.0	988.5	982.5	1003.5	1021.5	1014.0	1003.5	993.0	976.5	976.5
52.5°	577.5	739.5	888.0	910.5	943.5	954.0	942.0	931.5	913.5	906.0	900.0
55°	535.5	663.0	796.5	841.5	876.0	889.5	867.0	856.5	829.5	825.0	822.0
57.5°	526.5	552.0	712.5	769.5	811.5	810.0	796.5	777.0	754.5	750.0	748.5
60°	483.0	399.0	622.5	690.0	733.5	729.0	717.0	699.0	678.0	675.0	672.0
62.5°	438.0	289.5	520.5	597.0	658.5	657.0	646.5	619.5	604.5	597.0	591.0
65°	372.0	243.0	370.5	496.5	585.0	588.0	565.5	546.0	529.5	520.5	519.0
67.5°	283.5	198.0	250.5	414.0	514.5	511.5	483.0	474.0	453.0	448.5	439.5
70°	210.0	132.0	174.0	336.0	445.5	438.0	415.5	405.0	385.5	375.0	369.0
72.5°	174.0	106.5	127.5	261.0	375.0	366.0	346.5	334.5	318.0	309.0	303.0
75°	141.0	112.5	97.5	193.5	304.5	298.5	280.5	268.5	255.0	243.0	244.5
77.5°	103.5	105.0	78.0	142.5	241.5	232.5	222.0	207.0	201.0	189.0	189.0
80°	78.0	82.5	58.5	97.5	174.0	174.0	165.0	154.5	144.0	138.0	138.0
82.5°	52.5	52.5	43.5	61.5	118.5	114.0	108.0	105.0	99.0	96.0	96.0
85°	24.0	30.0	27.0	37.5	64.5	67.5	67.5	64.5	63.0	60.0	61.5
87.5°	7.5	13.5	16.5	21.0	33.0	34.5	36.0	36.0	36.0	37.5	37.5
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	16.2	26.4	29.0	40.8	56.5	64.3	56.3	40.4	28.5	27.4
95°	14.4	33.1	51.8	56.5	100.3	158.7	187.9	167.7	127.2	96.9	93.5
97.5°	24.9	41.4	57.9	62.0	135.1	232.5	281.2	268.4	242.9	223.7	217.2
100°	33.1	48.0	63.0	66.7	147.8	255.9	309.9	310.8	312.7	314.1	306.3
102.5°	40.0	54.0	67.9	71.4	153.6	263.2	318.0	334.3	366.9	391.4	384.7
105°	51.7	63.5	75.3	78.3	157.9	264.0	317.1	353.6	426.7	481.5	477.9
107.5°	63.7	74.7	85.7	88.5	158.7	252.3	299.1	350.1	452.0	528.4	529.3
110°	71.8	81.8	91.7	94.2	157.5	241.9	284.1	341.1	455.0	540.4	544.1



TEST NUMBER: P933915

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	79.8	89.3	98.7	101.1	157.5	232.8	270.4	328.7	445.3	532.7	538.4
115°	91.8	100.6	109.3	111.5	159.0	222.3	254.0	310.2	422.5	506.7	514.7
117.5°	103.7	111.6	119.5	121.5	161.9	215.8	242.8	293.5	394.8	470.8	479.6
120°	110.6	118.1	125.5	127.4	164.4	213.7	238.3	284.6	377.2	446.7	455.3
122.5°	117.3	124.9	132.4	134.3	167.8	212.5	234.8	276.5	359.9	422.5	431.0
125°	127.7	134.6	141.5	143.2	172.5	211.6	231.1	266.5	337.4	390.5	398.3
127.5°	136.1	143.0	150.0	151.7	177.1	211.0	227.9	258.3	319.2	364.8	371.4
130°	140.6	148.1	155.5	157.4	180.5	211.3	226.7	253.8	307.9	348.5	354.6
132.5°	145.3	152.8	160.2	162.1	183.3	211.6	225.7	249.9	298.4	334.7	340.1
135°	152.2	159.0	165.8	167.5	186.3	211.4	223.9	244.2	284.8	315.2	319.9
137.5°	159.3	166.0	172.7	174.4	190.8	212.7	223.6	240.8	275.1	300.8	304.6
140°	165.1	171.3	177.5	179.1	193.6	212.9	222.5	237.3	267.0	289.2	292.8
142.5°	169.6	175.3	181.1	182.5	195.8	213.6	222.5	235.5	261.6	281.1	284.2
145°	176.5	181.5	186.5	187.8	198.9	213.6	221.0	231.6	252.9	268.9	271.2
147.5°	183.4	188.3	193.2	194.4	203.3	215.1	221.0	229.4	246.1	258.7	260.6
150°	187.9	192.3	196.8	197.9	205.6	215.9	221.0	228.1	242.2	252.8	254.4
152.5°	192.6	195.9	199.3	200.1	207.1	216.4	221.0	227.0	239.1	248.2	249.4
155°	199.5	202.0	204.5	205.1	210.4	217.5	221.0	225.8	235.4	242.6	243.4
157.5°	204.6	207.0	209.4	210.0	213.7	218.6	221.0	224.7	232.2	237.8	238.4
160°	208.1	210.0	211.8	212.3	215.2	219.1	221.0	224.2	230.6	235.4	235.7
162.5°	211.5	212.9	214.3	214.7	216.8	219.6	221.0	223.7	229.1	233.2	233.5
165°	215.3	216.5	217.8	218.1	219.1	220.4	221.0	222.9	226.8	229.7	230.0
167.5°	218.7	219.3	219.9	220.1	220.9	222.0	222.5	223.8	226.3	228.2	228.3
170°	221.0	221.6	222.2	222.3	222.4	222.5	222.5	223.8	226.3	228.2	228.2
172.5°	222.2	222.3	222.5	222.5	222.5	222.5	222.5	223.5	225.5	227.0	226.9
175°	223.9	223.9	223.9	223.9	223.4	222.8	222.5	223.1	224.4	225.4	225.4
177.5°	223.9	223.9	223.9	223.9	223.5	223.0	222.8	223.3	224.3	225.1	225.0
180°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5
2.5°	1626.0	1621.5	1626.0	1623.0	1624.5	1620.0	1606.5	1602.0	1606.5	1611.0	1611.0
5°	1645.5	1642.5	1645.5	1645.5	1644.0	1641.0	1626.0	1623.0	1626.0	1627.5	1624.5
7.5°	1651.5	1647.0	1651.5	1648.5	1648.5	1645.5	1630.5	1627.5	1629.0	1633.5	1629.0
10°	1651.5	1647.0	1651.5	1650.0	1648.5	1645.5	1630.5	1624.5	1624.5	1629.0	1624.5
12.5°	1644.0	1641.0	1644.0	1641.0	1641.0	1638.0	1623.0	1617.0	1618.5	1620.0	1614.0
15°	1632.0	1627.5	1632.0	1629.0	1630.5	1626.0	1609.5	1603.5	1603.5	1606.5	1596.0
17.5°	1614.0	1608.0	1614.0	1612.5	1611.0	1608.0	1593.0	1587.0	1585.5	1587.0	1579.5
20°	1593.0	1588.5	1593.0	1591.5	1591.5	1585.5	1570.5	1563.0	1563.0	1563.0	1555.5
22.5°	1560.0	1555.5	1560.0	1563.0	1563.0	1561.5	1548.0	1537.5	1534.5	1534.5	1525.5
25°	1522.5	1518.0	1522.5	1522.5	1521.0	1522.5	1518.0	1512.0	1507.5	1503.0	1494.0
27.5°	1486.5	1483.5	1486.5	1483.5	1486.5	1482.0	1480.5	1479.0	1473.0	1468.5	1456.5
30°	1450.5	1447.5	1450.5	1447.5	1444.5	1441.5	1434.0	1431.0	1437.0	1434.0	1414.5
32.5°	1405.5	1402.5	1405.5	1405.5	1402.5	1402.5	1390.5	1386.0	1387.5	1396.5	1378.5
35°	1359.0	1354.5	1359.0	1357.5	1359.0	1354.5	1347.0	1345.5	1339.5	1350.0	1336.5
37.5°	1305.0	1300.5	1305.0	1305.0	1305.0	1308.0	1302.0	1297.5	1288.5	1302.0	1291.5
40°	1249.5	1243.5	1249.5	1248.0	1249.5	1252.5	1249.5	1246.5	1237.5	1248.0	1239.0
42.5°	1186.5	1185.0	1186.5	1188.0	1188.0	1194.0	1198.5	1192.5	1189.5	1182.0	1188.0
45°	1119.0	1116.0	1119.0	1122.0	1123.5	1126.5	1140.0	1140.0	1135.5	1123.5	1132.5
47.5°	1047.0	1039.5	1047.0	1056.0	1056.0	1060.5	1074.0	1084.5	1077.0	1062.0	1066.5
50°	970.5	972.0	970.5	976.5	976.5	993.0	1003.5	1014.0	1021.5	1003.5	982.5
52.5°	895.5	894.0	895.5	900.0	906.0	913.5	931.5	942.0	954.0	943.5	910.5
55°	820.5	823.5	820.5	822.0	825.0	829.5	856.5	867.0	889.5	876.0	841.5
57.5°	745.5	741.0	745.5	748.5	750.0	754.5	777.0	796.5	810.0	811.5	769.5
60°	658.5	652.5	658.5	672.0	675.0	678.0	699.0	717.0	729.0	733.5	690.0
62.5°	582.0	571.5	582.0	591.0	597.0	604.5	619.5	646.5	657.0	658.5	597.0
65°	501.0	496.5	501.0	519.0	520.5	529.5	546.0	565.5	588.0	585.0	496.5
67.5°	427.5	427.5	427.5	439.5	448.5	453.0	474.0	483.0	511.5	514.5	414.0
70°	360.0	358.5	360.0	369.0	375.0	385.5	405.0	415.5	438.0	445.5	336.0
72.5°	295.5	294.0	295.5	303.0	309.0	318.0	334.5	346.5	366.0	375.0	261.0
75°	238.5	235.5	238.5	244.5	243.0	255.0	268.5	280.5	298.5	304.5	193.5
77.5°	183.0	183.0	183.0	189.0	189.0	201.0	207.0	222.0	232.5	241.5	142.5
80°	136.5	135.0	136.5	138.0	138.0	144.0	154.5	165.0	174.0	174.0	97.5
82.5°	96.0	93.0	96.0	96.0	96.0	99.0	105.0	108.0	114.0	118.5	61.5
85°	60.0	60.0	60.0	61.5	60.0	63.0	64.5	67.5	67.5	64.5	37.5
87.5°	39.0	37.5	39.0	37.5	37.5	36.0	36.0	36.0	34.5	33.0	21.0
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°	22.8	18.3	22.8	27.4	28.5	40.4	56.3	64.3	56.5	40.8	29.0
95°	79.7	66.0	79.7	93.5	96.9	127.2	167.7	187.9	158.7	100.3	56.5
97.5°	191.0	164.8	191.0	217.2	223.7	242.9	268.4	281.2	232.5	135.1	62.0
100°	275.2	244.0	275.2	306.3	314.1	312.7	310.8	309.9	255.9	147.8	66.7
102.5°	358.0	331.3	358.0	384.7	391.4	366.9	334.3	318.0	263.2	153.6	71.4
105°	463.6	449.2	463.6	477.9	481.5	426.7	353.6	317.1	264.0	157.9	78.3
107.5°	532.7	536.2	532.7	529.3	528.4	452.0	350.1	299.1	252.3	158.7	88.5
110°	559.1	574.1	559.1	544.1	540.4	455.0	341.1	284.1	241.9	157.5	94.2





TEST NUMBER: P933915

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	561.4	584.4	561.4	538.4	532.7	445.3	328.7	270.4	232.8	157.5	101.1
115°	546.5	578.4	546.5	514.7	506.7	422.5	310.2	254.0	222.3	159.0	111.5
117.5°	515.0	550.3	515.0	479.6	470.8	394.8	293.5	242.8	215.8	161.9	121.5
120°	489.6	523.9	489.6	455.3	446.7	377.2	284.6	238.3	213.7	164.4	127.4
122.5°	464.8	498.6	464.8	431.0	422.5	359.9	276.5	234.8	212.5	167.8	134.3
125°	429.4	460.6	429.4	398.3	390.5	337.4	266.5	231.1	211.6	172.5	143.2
127.5°	397.7	424.0	397.7	371.4	364.8	319.2	258.3	227.9	211.0	177.1	151.7
130°	378.9	403.2	378.9	354.6	348.5	307.9	253.8	226.7	211.3	180.5	157.4
132.5°	361.9	383.7	361.9	340.1	334.7	298.4	249.9	225.7	211.6	183.3	162.1
135°	338.6	357.4	338.6	319.9	315.2	284.8	244.2	223.9	211.4	186.3	167.5
137.5°	320.0	335.3	320.0	304.6	300.8	275.1	240.8	223.6	212.7	190.8	174.4
140°	307.1	321.5	307.1	292.8	289.2	267.0	237.3	222.5	212.9	193.6	179.1
142.5°	296.5	308.9	296.5	284.2	281.1	261.6	235.5	222.5	213.6	195.8	182.5
145°	280.6	290.0	280.6	271.2	268.9	252.9	231.6	221.0	213.6	198.9	187.8
147.5°	268.4	276.1	268.4	260.6	258.7	246.1	229.4	221.0	215.1	203.3	194.4
150°	260.7	267.0	260.7	254.4	252.8	242.2	228.1	221.0	215.9	205.6	197.9
152.5°	254.1	258.9	254.1	249.4	248.2	239.1	227.0	221.0	216.4	207.1	200.1
155°	246.5	249.7	246.5	243.4	242.6	235.4	225.8	221.0	217.5	210.4	205.1
157.5°	240.6	242.8	240.6	238.4	237.8	232.2	224.7	221.0	218.6	213.7	210.0
160°	237.0	238.3	237.0	235.7	235.4	230.6	224.2	221.0	219.1	215.2	212.3
162.5°	234.7	235.9	234.7	233.5	233.2	229.1	223.7	221.0	219.6	216.8	214.7
165°	231.3	232.6	231.3	230.0	229.7	226.8	222.9	221.0	220.4	219.1	218.1
167.5°	228.9	229.4	228.9	228.3	228.2	226.3	223.8	222.5	222.0	220.9	220.1
170°	228.2	228.2	228.2	228.2	228.2	226.3	223.8	222.5	222.5	222.4	222.3
172.5°	226.4	226.0	226.4	226.9	227.0	225.5	223.5	222.5	222.5	222.5	222.5
175°	225.4	225.4	225.4	225.4	225.4	224.4	223.1	222.5	222.8	223.4	223.9
177.5°	224.4	223.9	224.4	225.0	225.1	224.3	223.3	222.8	223.0	223.5	223.9
180°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9



TEST NUMBER: P933915

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5
2.5°	1608.0	1599.0	1599.0	1584.0	1578.0	1573.5	1566.0	1543.5	1537.5	1531.5	1540.5
5°	1621.5	1605.0	1593.0	1566.0	1543.5	1534.5	1506.0	1452.0	1416.0	1389.0	1374.0
7.5°	1624.5	1603.5	1581.0	1539.0	1485.0	1461.0	1374.0	1275.0	1248.0	1224.0	1209.0
10°	1621.5	1597.5	1566.0	1503.0	1375.5	1333.5	1246.5	1182.0	1165.5	1161.0	1165.5
12.5°	1611.0	1588.5	1545.0	1440.0	1261.5	1233.0	1182.0	1144.5	1141.5	1149.0	1189.5
15°	1593.0	1572.0	1521.0	1356.0	1198.5	1177.5	1141.5	1128.0	1144.5	1197.0	1318.5
17.5°	1575.0	1551.0	1488.0	1273.5	1150.5	1135.5	1110.0	1137.0	1230.0	1300.5	1341.0
20°	1551.0	1522.5	1450.5	1213.5	1116.0	1102.5	1090.5	1212.0	1282.5	1308.0	1330.5
22.5°	1522.5	1492.5	1399.5	1171.5	1080.0	1069.5	1077.0	1254.0	1282.5	1300.5	1320.0
25°	1485.0	1459.5	1339.5	1138.5	1051.5	1039.5	1068.0	1249.5	1266.0	1270.5	1309.5
27.5°	1450.5	1417.5	1276.5	1108.5	1017.0	1012.5	1075.5	1230.0	1242.0	1246.5	1288.5
30°	1408.5	1359.0	1206.0	1077.0	981.0	979.5	1077.0	1206.0	1203.0	1215.0	1257.0
32.5°	1365.0	1272.0	1126.5	1038.0	946.5	945.0	1066.5	1170.0	1167.0	1183.5	1215.0
35°	1324.5	1204.5	1018.5	993.0	903.0	904.5	1041.0	1128.0	1129.5	1144.5	1164.0
37.5°	1282.5	1146.0	900.0	943.5	861.0	861.0	1006.5	1089.0	1086.0	1090.5	1117.5
40°	1233.0	1054.5	795.0	879.0	822.0	817.5	964.5	1047.0	1036.5	1035.0	1072.5
42.5°	1180.5	954.0	717.0	793.5	777.0	771.0	913.5	996.0	976.5	981.0	1029.0
45°	1123.5	927.0	657.0	670.5	730.5	726.0	858.0	937.5	924.0	936.0	985.5
47.5°	1066.5	873.0	637.5	556.5	681.0	679.5	796.5	880.5	873.0	885.0	937.5
50°	988.5	813.0	636.0	477.0	625.5	631.5	723.0	825.0	825.0	835.5	891.0
52.5°	888.0	739.5	577.5	432.0	561.0	579.0	658.5	777.0	780.0	790.5	840.0
55°	796.5	663.0	535.5	397.5	484.5	523.5	595.5	727.5	733.5	744.0	789.0
57.5°	712.5	552.0	526.5	357.0	414.0	451.5	540.0	679.5	682.5	691.5	735.0
60°	622.5	399.0	483.0	313.5	352.5	381.0	489.0	622.5	633.0	639.0	676.5
62.5°	520.5	289.5	438.0	283.5	322.5	328.5	447.0	568.5	582.0	586.5	609.0
65°	370.5	243.0	372.0	258.0	291.0	292.5	402.0	513.0	525.0	532.5	549.0
67.5°	250.5	198.0	283.5	234.0	267.0	268.5	358.5	448.5	465.0	471.0	481.5
70°	174.0	132.0	210.0	208.5	240.0	243.0	312.0	390.0	405.0	409.5	415.5
72.5°	127.5	106.5	174.0	187.5	211.5	214.5	264.0	324.0	339.0	343.5	346.5
75°	97.5	112.5	141.0	163.5	180.0	181.5	216.0	264.0	274.5	277.5	279.0
77.5°	78.0	105.0	103.5	132.0	147.0	144.0	169.5	204.0	213.0	213.0	213.0
80°	58.5	82.5	78.0	94.5	108.0	105.0	121.5	145.5	148.5	151.5	150.0
82.5°	43.5	52.5	52.5	60.0	72.0	69.0	81.0	94.5	94.5	94.5	97.5
85°	27.0	30.0	24.0	31.5	40.5	39.0	45.0	51.0	52.5	52.5	49.5
87.5°	16.5	13.5	7.5	12.0	18.0	18.0	21.0	22.5	21.0	21.0	21.0
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°	26.4	16.2	6.0	16.2	26.4	29.0	40.8	56.5	64.3	56.3	40.4
95°	51.8	33.1	14.4	33.1	51.8	56.5	100.3	158.7	187.9	167.7	127.2
97.5°	57.9	41.4	24.9	41.4	57.9	62.0	135.1	232.5	281.2	268.4	242.9
100°	63.0	48.0	33.1	48.0	63.0	66.7	147.8	255.9	309.9	310.8	312.7
102.5°	67.9	54.0	40.0	54.0	67.9	71.4	153.6	263.2	318.0	334.3	366.9
105°	75.3	63.5	51.7	63.5	75.3	78.3	157.9	264.0	317.1	353.6	426.7
107.5°	85.7	74.7	63.7	74.7	85.7	88.5	158.7	252.3	299.1	350.1	452.0
110°	91.7	81.8	71.8	81.8	91.7	94.2	157.5	241.9	284.1	341.1	455.0



TEST NUMBER: P933915

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	98.7	89.3	79.8	89.3	98.7	101.1	157.5	232.8	270.4	328.7	445.3
115°	109.3	100.6	91.8	100.6	109.3	111.5	159.0	222.3	254.0	310.2	422.5
117.5°	119.5	111.6	103.7	111.6	119.5	121.5	161.9	215.8	242.8	293.5	394.8
120°	125.5	118.1	110.6	118.1	125.5	127.4	164.4	213.7	238.3	284.6	377.2
122.5°	132.4	124.9	117.3	124.9	132.4	134.3	167.8	212.5	234.8	276.5	359.9
125°	141.5	134.6	127.7	134.6	141.5	143.2	172.5	211.6	231.1	266.5	337.4
127.5°	150.0	143.0	136.1	143.0	150.0	151.7	177.1	211.0	227.9	258.3	319.2
130°	155.5	148.1	140.6	148.1	155.5	157.4	180.5	211.3	226.7	253.8	307.9
132.5°	160.2	152.8	145.3	152.8	160.2	162.1	183.3	211.6	225.7	249.9	298.4
135°	165.8	159.0	152.2	159.0	165.8	167.5	186.3	211.4	223.9	244.2	284.8
137.5°	172.7	166.0	159.3	166.0	172.7	174.4	190.8	212.7	223.6	240.8	275.1
140°	177.5	171.3	165.1	171.3	177.5	179.1	193.6	212.9	222.5	237.3	267.0
142.5°	181.1	175.3	169.6	175.3	181.1	182.5	195.8	213.6	222.5	235.5	261.6
145°	186.5	181.5	176.5	181.5	186.5	187.8	198.9	213.6	221.0	231.6	252.9
147.5°	193.2	188.3	183.4	188.3	193.2	194.4	203.3	215.1	221.0	229.4	246.1
150°	196.8	192.3	187.9	192.3	196.8	197.9	205.6	215.9	221.0	228.1	242.2
152.5°	199.3	195.9	192.6	195.9	199.3	200.1	207.1	216.4	221.0	227.0	239.1
155°	204.5	202.0	199.5	202.0	204.5	205.1	210.4	217.5	221.0	225.8	235.4
157.5°	209.4	207.0	204.6	207.0	209.4	210.0	213.7	218.6	221.0	224.7	232.2
160°	211.8	210.0	208.1	210.0	211.8	212.3	215.2	219.1	221.0	224.2	230.6
162.5°	214.3	212.9	211.5	212.9	214.3	214.7	216.8	219.6	221.0	223.7	229.1
165°	217.8	216.5	215.3	216.5	217.8	218.1	219.1	220.4	221.0	222.9	226.8
167.5°	219.9	219.3	218.7	219.3	219.9	220.1	220.9	222.0	222.5	223.8	226.3
170°	222.2	221.6	221.0	221.6	222.2	222.3	222.4	222.5	222.5	223.8	226.3
172.5°	222.5	222.3	222.2	222.3	222.5	222.5	222.5	222.5	222.5	223.5	225.5
175°	223.9	223.9	223.9	223.9	223.9	223.9	223.4	222.8	222.5	223.1	224.4
177.5°	223.9	223.9	223.9	223.9	223.9	223.9	223.5	223.0	222.8	223.3	224.3
180°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9



TEST NUMBER: P933915  
 CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5
2.5°	1530.0	1525.5	1531.5	1515.0	1531.5	1525.5	1530.0	1540.5	1531.5	1537.5	1543.5
5°	1342.5	1335.0	1311.0	1291.5	1311.0	1335.0	1342.5	1374.0	1389.0	1416.0	1452.0
7.5°	1200.0	1194.0	1188.0	1176.0	1188.0	1194.0	1200.0	1209.0	1224.0	1248.0	1275.0
10°	1168.5	1170.0	1179.0	1177.5	1179.0	1170.0	1168.5	1165.5	1161.0	1165.5	1182.0
12.5°	1249.5	1263.0	1312.5	1309.5	1312.5	1263.0	1249.5	1189.5	1149.0	1141.5	1144.5
15°	1342.5	1347.0	1357.5	1359.0	1357.5	1347.0	1342.5	1318.5	1197.0	1144.5	1128.0
17.5°	1351.5	1353.0	1360.5	1360.5	1360.5	1353.0	1351.5	1341.0	1300.5	1230.0	1137.0
20°	1344.0	1347.0	1362.0	1365.0	1362.0	1347.0	1344.0	1330.5	1308.0	1282.5	1212.0
22.5°	1341.0	1347.0	1359.0	1357.5	1359.0	1347.0	1341.0	1320.0	1300.5	1282.5	1254.0
25°	1326.0	1326.0	1327.5	1329.0	1327.5	1326.0	1326.0	1309.5	1270.5	1266.0	1249.5
27.5°	1294.5	1297.5	1306.5	1305.0	1306.5	1297.5	1294.5	1288.5	1246.5	1242.0	1230.0
30°	1266.0	1263.0	1255.5	1249.5	1255.5	1263.0	1266.0	1257.0	1215.0	1203.0	1206.0
32.5°	1218.0	1210.5	1203.0	1198.5	1203.0	1210.5	1218.0	1215.0	1183.5	1167.0	1170.0
35°	1161.0	1162.5	1161.0	1156.5	1161.0	1162.5	1161.0	1164.0	1144.5	1129.5	1128.0
37.5°	1120.5	1123.5	1122.0	1116.0	1122.0	1123.5	1120.5	1117.5	1090.5	1086.0	1089.0
40°	1078.5	1080.0	1078.5	1074.0	1078.5	1080.0	1078.5	1072.5	1035.0	1036.5	1047.0
42.5°	1038.0	1036.5	1032.0	1029.0	1032.0	1036.5	1038.0	1029.0	981.0	976.5	996.0
45°	991.5	993.0	984.0	979.5	984.0	993.0	991.5	985.5	936.0	924.0	937.5
47.5°	945.0	945.0	937.5	933.0	937.5	945.0	945.0	937.5	885.0	873.0	880.5
50°	895.5	894.0	883.5	882.0	883.5	894.0	895.5	891.0	835.5	825.0	825.0
52.5°	838.5	838.5	840.0	843.0	840.0	838.5	838.5	840.0	790.5	780.0	777.0
55°	789.0	790.5	801.0	804.0	801.0	790.5	789.0	789.0	744.0	733.5	727.5
57.5°	738.0	738.0	745.5	745.5	745.5	738.0	738.0	735.0	691.5	682.5	679.5
60°	679.5	682.5	688.5	687.0	688.5	682.5	679.5	676.5	639.0	633.0	622.5
62.5°	618.0	621.0	622.5	619.5	622.5	621.0	618.0	609.0	586.5	582.0	568.5
65°	553.5	556.5	558.0	555.0	558.0	556.5	553.5	549.0	532.5	525.0	513.0
67.5°	487.5	486.0	484.5	490.5	484.5	486.0	487.5	481.5	471.0	465.0	448.5
70°	420.0	420.0	418.5	421.5	418.5	420.0	420.0	415.5	409.5	405.0	390.0
72.5°	348.0	346.5	352.5	348.0	352.5	346.5	348.0	346.5	343.5	339.0	324.0
75°	277.5	280.5	277.5	282.0	277.5	280.5	277.5	279.0	277.5	274.5	264.0
77.5°	211.5	214.5	211.5	211.5	211.5	214.5	211.5	213.0	213.0	213.0	204.0
80°	150.0	148.5	148.5	147.0	148.5	148.5	150.0	150.0	151.5	148.5	145.5
82.5°	96.0	94.5	94.5	97.5	94.5	94.5	96.0	97.5	94.5	94.5	94.5
85°	52.5	54.0	51.0	51.0	51.0	54.0	52.5	49.5	52.5	52.5	51.0
87.5°	19.5	18.0	18.0	18.0	18.0	18.0	19.5	21.0	21.0	21.0	22.5
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°	28.5	27.4	22.8	18.3	22.8	27.4	28.5	40.4	56.3	64.3	56.5
95°	96.9	93.5	79.7	66.0	79.7	93.5	96.9	127.2	167.7	187.9	158.7
97.5°	223.7	217.2	191.0	164.8	191.0	217.2	223.7	242.9	268.4	281.2	232.5
100°	314.1	306.3	275.2	244.0	275.2	306.3	314.1	312.7	310.8	309.9	255.9
102.5°	391.4	384.7	358.0	331.3	358.0	384.7	391.4	366.9	334.3	318.0	263.2
105°	481.5	477.9	463.6	449.2	463.6	477.9	481.5	426.7	353.6	317.1	264.0
107.5°	528.4	529.3	532.7	536.2	532.7	529.3	528.4	452.0	350.1	299.1	252.3
110°	540.4	544.1	559.1	574.1	559.1	544.1	540.4	455.0	341.1	284.1	241.9



TEST NUMBER: P933915

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	532.7	538.4	561.4	584.4	561.4	538.4	532.7	445.3	328.7	270.4	232.8
115°	506.7	514.7	546.5	578.4	546.5	514.7	506.7	422.5	310.2	254.0	222.3
117.5°	470.8	479.6	515.0	550.3	515.0	479.6	470.8	394.8	293.5	242.8	215.8
120°	446.7	455.3	489.6	523.9	489.6	455.3	446.7	377.2	284.6	238.3	213.7
122.5°	422.5	431.0	464.8	498.6	464.8	431.0	422.5	359.9	276.5	234.8	212.5
125°	390.5	398.3	429.4	460.6	429.4	398.3	390.5	337.4	266.5	231.1	211.6
127.5°	364.8	371.4	397.7	424.0	397.7	371.4	364.8	319.2	258.3	227.9	211.0
130°	348.5	354.6	378.9	403.2	378.9	354.6	348.5	307.9	253.8	226.7	211.3
132.5°	334.7	340.1	361.9	383.7	361.9	340.1	334.7	298.4	249.9	225.7	211.6
135°	315.2	319.9	338.6	357.4	338.6	319.9	315.2	284.8	244.2	223.9	211.4
137.5°	300.8	304.6	320.0	335.3	320.0	304.6	300.8	275.1	240.8	223.6	212.7
140°	289.2	292.8	307.1	321.5	307.1	292.8	289.2	267.0	237.3	222.5	212.9
142.5°	281.1	284.2	296.5	308.9	296.5	284.2	281.1	261.6	235.5	222.5	213.6
145°	268.9	271.2	280.6	290.0	280.6	271.2	268.9	252.9	231.6	221.0	213.6
147.5°	258.7	260.6	268.4	276.1	268.4	260.6	258.7	246.1	229.4	221.0	215.1
150°	252.8	254.4	260.7	267.0	260.7	254.4	252.8	242.2	228.1	221.0	215.9
152.5°	248.2	249.4	254.1	258.9	254.1	249.4	248.2	239.1	227.0	221.0	216.4
155°	242.6	243.4	246.5	249.7	246.5	243.4	242.6	235.4	225.8	221.0	217.5
157.5°	237.8	238.4	240.6	242.8	240.6	238.4	237.8	232.2	224.7	221.0	218.6
160°	235.4	235.7	237.0	238.3	237.0	235.7	235.4	230.6	224.2	221.0	219.1
162.5°	233.2	233.5	234.7	235.9	234.7	233.5	233.2	229.1	223.7	221.0	219.6
165°	229.7	230.0	231.3	232.6	231.3	230.0	229.7	226.8	222.9	221.0	220.4
167.5°	228.2	228.3	228.9	229.4	228.9	228.3	228.2	226.3	223.8	222.5	222.0
170°	228.2	228.2	228.2	228.2	228.2	228.2	228.2	226.3	223.8	222.5	222.5
172.5°	227.0	226.9	226.4	226.0	226.4	226.9	227.0	225.5	223.5	222.5	222.5
175°	225.4	225.4	225.4	225.4	225.4	225.4	225.4	224.4	223.1	222.5	222.8
177.5°	225.1	225.0	224.4	223.9	224.4	225.0	225.1	224.3	223.3	222.8	223.0
180°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9



TEST NUMBER: P933915

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1585.5	1585.5	1585.5	1585.5	1585.5
2.5°	1566.0	1573.5	1578.0	1584.0	1599.0
5°	1506.0	1534.5	1543.5	1566.0	1593.0
7.5°	1374.0	1461.0	1485.0	1539.0	1581.0
10°	1246.5	1333.5	1375.5	1503.0	1566.0
12.5°	1182.0	1233.0	1261.5	1440.0	1545.0
15°	1141.5	1177.5	1198.5	1356.0	1521.0
17.5°	1110.0	1135.5	1150.5	1273.5	1488.0
20°	1090.5	1102.5	1116.0	1213.5	1450.5
22.5°	1077.0	1069.5	1080.0	1171.5	1399.5
25°	1068.0	1039.5	1051.5	1138.5	1339.5
27.5°	1075.5	1012.5	1017.0	1108.5	1276.5
30°	1077.0	979.5	981.0	1077.0	1206.0
32.5°	1066.5	945.0	946.5	1038.0	1126.5
35°	1041.0	904.5	903.0	993.0	1018.5
37.5°	1006.5	861.0	861.0	943.5	900.0
40°	964.5	817.5	822.0	879.0	795.0
42.5°	913.5	771.0	777.0	793.5	717.0
45°	858.0	726.0	730.5	670.5	657.0
47.5°	796.5	679.5	681.0	556.5	637.5
50°	723.0	631.5	625.5	477.0	636.0
52.5°	658.5	579.0	561.0	432.0	577.5
55°	595.5	523.5	484.5	397.5	535.5
57.5°	540.0	451.5	414.0	357.0	526.5
60°	489.0	381.0	352.5	313.5	483.0
62.5°	447.0	328.5	322.5	283.5	438.0
65°	402.0	292.5	291.0	258.0	372.0
67.5°	358.5	268.5	267.0	234.0	283.5
70°	312.0	243.0	240.0	208.5	210.0
72.5°	264.0	214.5	211.5	187.5	174.0
75°	216.0	181.5	180.0	163.5	141.0
77.5°	169.5	144.0	147.0	132.0	103.5
80°	121.5	105.0	108.0	94.5	78.0
82.5°	81.0	69.0	72.0	60.0	52.5
85°	45.0	39.0	40.5	31.5	24.0
87.5°	21.0	18.0	18.0	12.0	7.5
90°	6.6	4.2	3.9	2.7	1.5
92.5°	40.8	29.0	26.4	16.2	6.0
95°	100.3	56.5	51.8	33.1	14.4
97.5°	135.1	62.0	57.9	41.4	24.9
100°	147.8	66.7	63.0	48.0	33.1
102.5°	153.6	71.4	67.9	54.0	40.0
105°	157.9	78.3	75.3	63.5	51.7
107.5°	158.7	88.5	85.7	74.7	63.7
110°	157.5	94.2	91.7	81.8	71.8



TEST NUMBER: P933915

CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	157.5	101.1	98.7	89.3	79.8
115°	159.0	111.5	109.3	100.6	91.8
117.5°	161.9	121.5	119.5	111.6	103.7
120°	164.4	127.4	125.5	118.1	110.6
122.5°	167.8	134.3	132.4	124.9	117.3
125°	172.5	143.2	141.5	134.6	127.7
127.5°	177.1	151.7	150.0	143.0	136.1
130°	180.5	157.4	155.5	148.1	140.6
132.5°	183.3	162.1	160.2	152.8	145.3
135°	186.3	167.5	165.8	159.0	152.2
137.5°	190.8	174.4	172.7	166.0	159.3
140°	193.6	179.1	177.5	171.3	165.1
142.5°	195.8	182.5	181.1	175.3	169.6
145°	198.9	187.8	186.5	181.5	176.5
147.5°	203.3	194.4	193.2	188.3	183.4
150°	205.6	197.9	196.8	192.3	187.9
152.5°	207.1	200.1	199.3	195.9	192.6
155°	210.4	205.1	204.5	202.0	199.5
157.5°	213.7	210.0	209.4	207.0	204.6
160°	215.2	212.3	211.8	210.0	208.1
162.5°	216.8	214.7	214.3	212.9	211.5
165°	219.1	218.1	217.8	216.5	215.3
167.5°	220.9	220.1	219.9	219.3	218.7
170°	222.4	222.3	222.2	221.6	221.0
172.5°	222.5	222.5	222.5	222.3	222.2
175°	223.4	223.9	223.9	223.9	223.9
177.5°	223.5	223.9	223.9	223.9	223.9
180°	223.9	223.9	223.9	223.9	223.9



TEST NUMBER: P933915  
 CATALOG NUMBER: SQ4-FA-025U-075D-835-1D-UNV-STD-W-6

**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	14.70	15.83	15.42	16.57	17.45	17.52	18.65	18.25	19.39	20.28
	3H	15.20	16.21	15.93	16.96	17.88	18.89	19.90	19.62	20.65	21.57
	4H	15.40	16.36	16.15	17.12	18.04	19.34	20.30	20.10	21.06	21.99
	6H	15.53	16.41	16.30	17.18	18.13	19.64	20.52	20.41	21.29	22.23
	8H	15.54	16.38	16.32	17.17	18.11	19.72	20.56	20.50	21.35	22.29
	12H	15.52	16.32	16.30	17.11	18.08	19.77	20.57	20.55	21.35	22.32
4H	2H	15.76	16.72	16.52	17.48	18.41	17.97	18.92	18.72	19.68	20.61
	3H	16.81	17.61	17.58	18.41	19.35	19.49	20.29	20.26	21.09	22.03
	4H	17.10	17.82	17.89	18.62	19.59	20.03	20.76	20.82	21.55	22.52
	6H	17.24	17.87	18.04	18.69	19.67	20.41	21.04	21.21	21.86	22.84
	8H	17.25	17.84	18.06	18.66	19.65	20.52	21.11	21.33	21.92	22.92
	12H	17.23	17.76	18.06	18.60	19.60	20.59	21.12	21.42	21.96	22.95
8H	4H	17.58	18.16	18.38	18.98	19.97	20.18	20.76	20.98	21.58	22.57
	6H	17.85	18.33	18.68	19.19	20.18	20.62	21.11	21.46	21.97	22.96
	8H	17.89	18.32	18.74	19.18	20.19	20.78	21.21	21.62	22.06	23.07
	12H	17.89	18.27	18.74	19.12	20.18	20.89	21.27	21.74	22.11	23.18
12H	4H	17.59	18.12	18.42	18.96	19.96	20.16	20.68	20.98	21.52	22.52
	6H	17.91	18.34	18.76	19.20	20.21	20.62	21.05	21.47	21.91	22.92
	8H	17.99	18.37	18.84	19.22	20.28	20.80	21.18	21.64	22.02	23.09