

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: P934315

Luminaire Tested: SQ4-FA-050U-075D-835-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934315
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-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

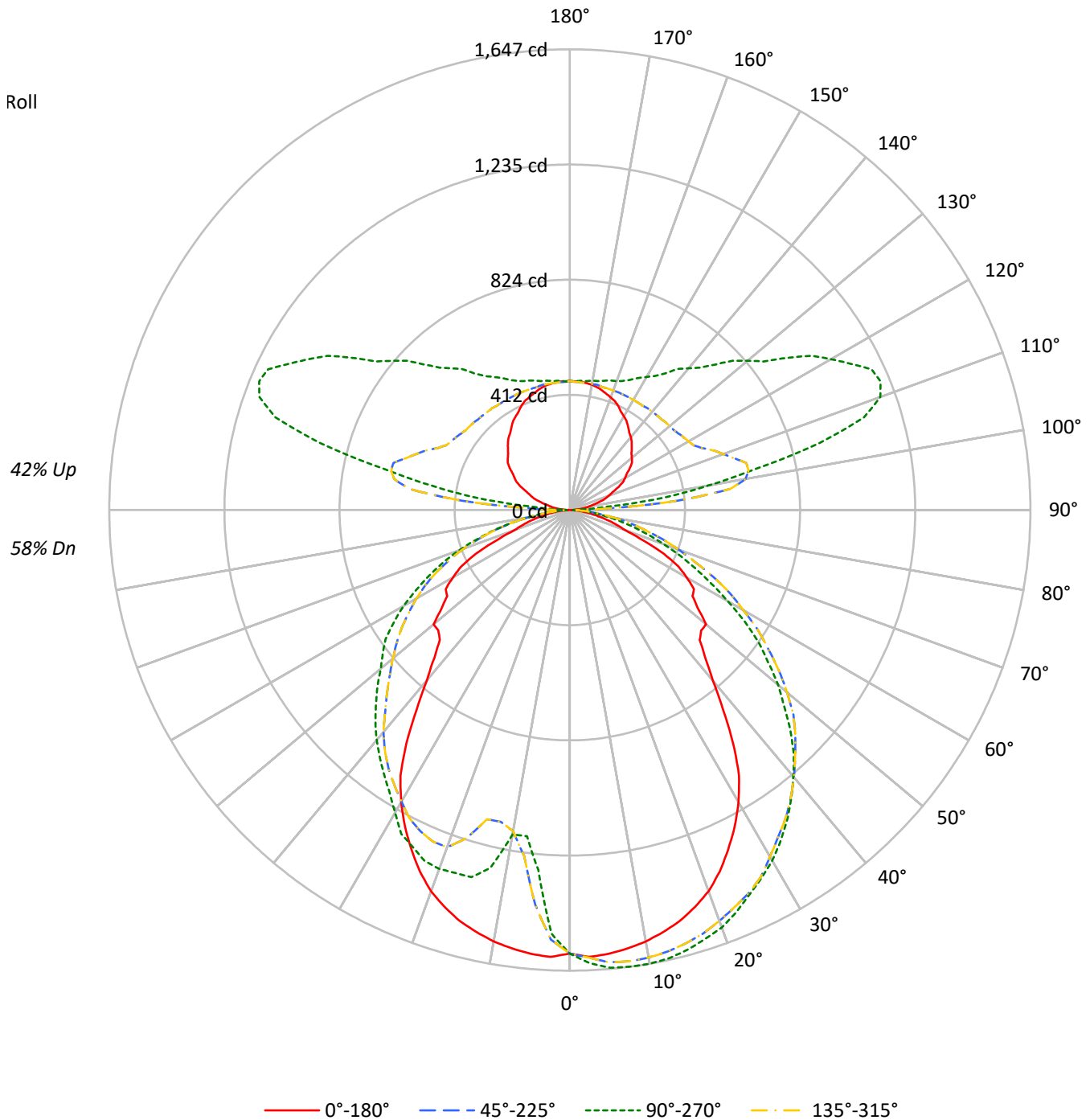
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7098.9 lumens
Efficiency: N/A
Efficacy: 130.0 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				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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58				58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49				49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41				41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35				35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30				30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26				26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23				23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20				20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18				18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16				16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15				15

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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	2.0
10°-20°	406.4	5.7
20°-30°	628.2	8.8
30°-40°	749.9	10.6
40°-50°	754.3	10.6
50°-60°	656.3	9.2
60°-70°	465.3	6.6
70°-80°	246.2	3.5
80°-90°	63.1	0.9
90°-100°	224.5	3.2
100°-110°	590.3	8.3
110°-120°	612.1	8.6
120°-130°	491.0	6.9
130°-140°	385.3	5.4
140°-150°	295.7	4.2
150°-160°	213.0	3.0
160°-170°	130.3	1.8
170°-180°	44.0	0.6
0°-30°	1177.6	16.6
0°-40°	1927.5	27.2
0°-60°	3338.1	47.0
0°-90°	4112.7	57.9
90°-120°	1427.0	20.1
90°-150°	2599.0	36.6
90°-180°	2986.0	42.1
0°-180°	7098.9	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°	3	12	3	12	3	4
95°	30	136	30	136	30	33
105°	106	924	106	924	106	113
115°	189	1190	189	1190	189	187
125°	263	948	263	948	263	233
135°	313	736	313	736	313	242
145°	363	597	363	597	363	228
155°	411	514	411	514	411	189
165°	443	479	443	479	443	125
175°	461	464	461	464	461	44
180°	461	461	461	461	461	



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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°	3.1	5.6	8.1	8.7	13.6	20.2	23.5	20.9	15.6	11.7	11.7
92.5°	12.4	33.4	54.4	59.7	83.9	116.2	132.3	115.9	83.2	58.7	56.4
95°	29.7	68.1	106.6	116.2	206.4	326.7	386.8	345.2	261.9	199.4	192.3
97.5°	51.3	85.3	119.2	127.7	278.1	478.6	578.8	552.5	499.8	460.3	446.8
100°	68.0	98.8	129.6	137.3	304.1	526.6	637.8	639.7	643.6	646.5	630.5
102.5°	82.2	111.0	139.7	146.9	316.1	541.7	654.5	688.0	755.1	805.4	791.7
105°	106.4	130.7	155.0	161.1	324.9	543.4	652.6	727.8	878.1	990.9	983.5
107.5°	131.1	153.8	176.4	182.1	326.6	519.2	615.5	720.3	930.0	1087.3	1089.1
110°	147.8	168.2	188.7	193.8	324.1	497.8	584.6	701.8	936.3	1112.1	1119.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	164.2	183.7	203.2	208.1	324.2	479.1	556.5	676.5	916.4	1096.3	1108.1
115°	188.9	206.9	224.9	229.4	327.2	457.6	522.8	638.4	869.5	1042.8	1059.2
117.5°	213.3	229.7	246.0	250.1	333.3	444.2	499.6	603.9	812.5	968.9	987.1
120°	227.5	242.9	258.3	262.2	338.2	439.6	490.3	585.6	776.2	919.1	936.8
122.5°	241.5	257.0	272.5	276.4	345.3	437.2	483.2	569.0	740.7	869.4	886.8
125°	262.8	276.9	291.1	294.6	354.9	435.3	475.5	548.4	694.2	803.5	819.5
127.5°	280.1	294.4	308.7	312.3	364.5	434.2	469.0	531.6	656.7	750.6	764.1
130°	289.4	304.8	320.2	324.0	371.5	434.8	466.5	522.2	633.7	717.3	729.8
132.5°	299.0	314.4	329.8	333.6	377.2	435.3	464.4	514.3	614.0	688.8	700.0
135°	313.2	327.2	341.2	344.7	383.4	434.9	460.7	502.5	586.0	648.6	658.3
137.5°	327.7	341.6	355.4	358.9	392.6	437.5	460.0	495.3	565.9	618.9	626.8
140°	339.8	352.6	365.3	368.5	398.3	438.0	457.9	488.4	549.4	595.1	602.5
142.5°	349.0	360.8	372.6	375.6	403.0	439.6	457.9	484.7	538.2	578.4	584.8
145°	363.3	373.6	383.9	386.5	409.3	439.6	454.8	476.7	520.5	553.4	558.2
147.5°	377.5	387.5	397.6	400.1	418.3	442.6	454.8	472.0	506.5	532.4	536.4
150°	386.8	395.9	404.9	407.2	423.1	444.2	454.8	469.4	498.5	520.3	523.5
152.5°	396.3	403.2	410.1	411.8	426.1	445.2	454.8	467.2	492.1	510.7	513.1
155°	410.6	415.7	420.7	422.0	432.9	447.5	454.8	464.7	484.5	499.3	500.9
157.5°	421.1	426.0	431.0	432.2	439.7	449.8	454.8	462.5	477.9	489.4	490.5
160°	428.2	432.0	435.8	436.8	442.8	450.8	454.8	461.4	474.6	484.5	485.1
162.5°	435.3	438.2	441.1	441.8	446.1	451.9	454.8	460.4	471.5	479.8	480.4
165°	443.0	445.6	448.2	448.9	450.9	453.5	454.8	458.8	466.7	472.7	473.4
167.5°	450.1	451.3	452.6	452.9	454.6	456.8	457.9	460.5	465.7	469.6	469.9
170°	454.8	456.0	457.3	457.6	457.7	457.8	457.9	460.5	465.7	469.6	469.6
172.5°	457.3	457.6	457.8	457.9	457.9	457.9	457.9	459.9	464.0	467.1	466.9
175°	460.7	460.7	460.7	460.7	459.8	458.5	457.9	459.2	461.8	463.7	463.7
177.5°	460.7	460.7	460.7	460.7	460.0	459.0	458.5	459.5	461.6	463.1	462.8
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



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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°	11.7	11.7	11.7	11.7	11.7	15.6	20.9	23.5	20.2	13.6	8.7
92.5°	47.0	37.7	47.0	56.4	58.7	83.2	115.9	132.3	116.2	83.9	59.7
95°	164.0	135.7	164.0	192.3	199.4	261.9	345.2	386.8	326.7	206.4	116.2
97.5°	393.0	339.2	393.0	446.8	460.3	499.8	552.5	578.8	478.6	278.1	127.7
100°	566.3	502.1	566.3	630.5	646.5	643.6	639.7	637.8	526.6	304.1	137.3
102.5°	736.7	681.7	736.7	791.7	805.4	755.1	688.0	654.5	541.7	316.1	146.9
105°	954.0	924.4	954.0	983.5	990.9	878.1	727.8	652.6	543.4	324.9	161.1
107.5°	1096.2	1103.4	1096.2	1089.1	1087.3	930.0	720.3	615.5	519.2	326.6	182.1
110°	1150.5	1181.3	1150.5	1119.8	1112.1	936.3	701.8	584.6	497.8	324.1	193.8



TEST NUMBER: P934315

CATALOG NUMBER: SQ4-FA-050U-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°	1155.4	1202.6	1155.4	1108.1	1096.3	916.4	676.5	556.5	479.1	324.2	208.1
115°	1124.7	1190.3	1124.7	1059.2	1042.8	869.5	638.4	522.8	457.6	327.2	229.4
117.5°	1059.8	1132.5	1059.8	987.1	968.9	812.5	603.9	499.6	444.2	333.3	250.1
120°	1007.4	1078.1	1007.4	936.8	919.1	776.2	585.6	490.3	439.6	338.2	262.2
122.5°	956.5	1026.1	956.5	886.8	869.4	740.7	569.0	483.2	437.2	345.3	276.4
125°	883.7	947.9	883.7	819.5	803.5	694.2	548.4	475.5	435.3	354.9	294.6
127.5°	818.3	872.5	818.3	764.1	750.6	656.7	531.6	469.0	434.2	364.5	312.3
130°	779.8	829.8	779.8	729.8	717.3	633.7	522.2	466.5	434.8	371.5	324.0
132.5°	744.8	789.6	744.8	700.0	688.8	614.0	514.3	464.4	435.3	377.2	333.6
135°	696.9	735.5	696.9	658.3	648.6	586.0	502.5	460.7	434.9	383.4	344.7
137.5°	658.5	690.1	658.5	626.8	618.9	565.9	495.3	460.0	437.5	392.6	358.9
140°	632.0	661.6	632.0	602.5	595.1	549.4	488.4	457.9	438.0	398.3	368.5
142.5°	610.2	635.6	610.2	584.8	578.4	538.2	484.7	457.9	439.6	403.0	375.6
145°	577.5	596.7	577.5	558.2	553.4	520.5	476.7	454.8	439.6	409.3	386.5
147.5°	552.3	568.2	552.3	536.4	532.4	506.5	472.0	454.8	442.6	418.3	400.1
150°	536.5	549.4	536.5	523.5	520.3	498.5	469.4	454.8	444.2	423.1	407.2
152.5°	522.9	532.7	522.9	513.1	510.7	492.1	467.2	454.8	445.2	426.1	411.8
155°	507.4	513.8	507.4	500.9	499.3	484.5	464.7	454.8	447.5	432.9	422.0
157.5°	495.1	499.6	495.1	490.5	489.4	477.9	462.5	454.8	449.8	439.7	432.2
160°	487.7	490.3	487.7	485.1	484.5	474.6	461.4	454.8	450.8	442.8	436.8
162.5°	482.9	485.4	482.9	480.4	479.8	471.5	460.4	454.8	451.9	446.1	441.8
165°	476.0	478.6	476.0	473.4	472.7	466.7	458.8	454.8	453.5	450.9	448.9
167.5°	471.0	472.1	471.0	469.9	469.6	465.7	460.5	457.9	456.8	454.6	452.9
170°	469.6	469.6	469.6	469.6	469.6	465.7	460.5	457.9	457.8	457.7	457.6
172.5°	465.9	465.0	465.9	466.9	467.1	464.0	459.9	457.9	457.9	457.9	457.9
175°	463.7	463.7	463.7	463.7	463.7	461.8	459.2	457.9	458.5	459.8	460.7
177.5°	461.8	460.7	461.8	462.8	463.1	461.6	459.5	458.5	459.0	460.0	460.7
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



TEST NUMBER: P934315
 CATALOG NUMBER: SQ4-FA-050U-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°	8.1	5.6	3.1	5.6	8.1	8.7	13.6	20.2	23.5	20.9	15.6
92.5°	54.4	33.4	12.4	33.4	54.4	59.7	83.9	116.2	132.3	115.9	83.2
95°	106.6	68.1	29.7	68.1	106.6	116.2	206.4	326.7	386.8	345.2	261.9
97.5°	119.2	85.3	51.3	85.3	119.2	127.7	278.1	478.6	578.8	552.5	499.8
100°	129.6	98.8	68.0	98.8	129.6	137.3	304.1	526.6	637.8	639.7	643.6
102.5°	139.7	111.0	82.2	111.0	139.7	146.9	316.1	541.7	654.5	688.0	755.1
105°	155.0	130.7	106.4	130.7	155.0	161.1	324.9	543.4	652.6	727.8	878.1
107.5°	176.4	153.8	131.1	153.8	176.4	182.1	326.6	519.2	615.5	720.3	930.0
110°	188.7	168.2	147.8	168.2	188.7	193.8	324.1	497.8	584.6	701.8	936.3



TEST NUMBER: P934315

CATALOG NUMBER: SQ4-FA-050U-075D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	203.2	183.7	164.2	183.7	203.2	208.1	324.2	479.1	556.5	676.5	916.4
115°	224.9	206.9	188.9	206.9	224.9	229.4	327.2	457.6	522.8	638.4	869.5
117.5°	246.0	229.7	213.3	229.7	246.0	250.1	333.3	444.2	499.6	603.9	812.5
120°	258.3	242.9	227.5	242.9	258.3	262.2	338.2	439.6	490.3	585.6	776.2
122.5°	272.5	257.0	241.5	257.0	272.5	276.4	345.3	437.2	483.2	569.0	740.7
125°	291.1	276.9	262.8	276.9	291.1	294.6	354.9	435.3	475.5	548.4	694.2
127.5°	308.7	294.4	280.1	294.4	308.7	312.3	364.5	434.2	469.0	531.6	656.7
130°	320.2	304.8	289.4	304.8	320.2	324.0	371.5	434.8	466.5	522.2	633.7
132.5°	329.8	314.4	299.0	314.4	329.8	333.6	377.2	435.3	464.4	514.3	614.0
135°	341.2	327.2	313.2	327.2	341.2	344.7	383.4	434.9	460.7	502.5	586.0
137.5°	355.4	341.6	327.7	341.6	355.4	358.9	392.6	437.5	460.0	495.3	565.9
140°	365.3	352.6	339.8	352.6	365.3	368.5	398.3	438.0	457.9	488.4	549.4
142.5°	372.6	360.8	349.0	360.8	372.6	375.6	403.0	439.6	457.9	484.7	538.2
145°	383.9	373.6	363.3	373.6	383.9	386.5	409.3	439.6	454.8	476.7	520.5
147.5°	397.6	387.5	377.5	387.5	397.6	400.1	418.3	442.6	454.8	472.0	506.5
150°	404.9	395.9	386.8	395.9	404.9	407.2	423.1	444.2	454.8	469.4	498.5
152.5°	410.1	403.2	396.3	403.2	410.1	411.8	426.1	445.2	454.8	467.2	492.1
155°	420.7	415.7	410.6	415.7	420.7	422.0	432.9	447.5	454.8	464.7	484.5
157.5°	431.0	426.0	421.1	426.0	431.0	432.2	439.7	449.8	454.8	462.5	477.9
160°	435.8	432.0	428.2	432.0	435.8	436.8	442.8	450.8	454.8	461.4	474.6
162.5°	441.1	438.2	435.3	438.2	441.1	441.8	446.1	451.9	454.8	460.4	471.5
165°	448.2	445.6	443.0	445.6	448.2	448.9	450.9	453.5	454.8	458.8	466.7
167.5°	452.6	451.3	450.1	451.3	452.6	452.9	454.6	456.8	457.9	460.5	465.7
170°	457.3	456.0	454.8	456.0	457.3	457.6	457.7	457.8	457.9	460.5	465.7
172.5°	457.8	457.6	457.3	457.6	457.8	457.9	457.9	457.9	457.9	459.9	464.0
175°	460.7	460.7	460.7	460.7	460.7	460.7	459.8	458.5	457.9	459.2	461.8
177.5°	460.7	460.7	460.7	460.7	460.7	460.7	460.0	459.0	458.5	459.5	461.6
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



TEST NUMBER: P934315
 CATALOG NUMBER: SQ4-FA-050U-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°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	15.6	20.9	23.5	20.2
92.5°	58.7	56.4	47.0	37.7	47.0	56.4	58.7	83.2	115.9	132.3	116.2
95°	199.4	192.3	164.0	135.7	164.0	192.3	199.4	261.9	345.2	386.8	326.7
97.5°	460.3	446.8	393.0	339.2	393.0	446.8	460.3	499.8	552.5	578.8	478.6
100°	646.5	630.5	566.3	502.1	566.3	630.5	646.5	643.6	639.7	637.8	526.6
102.5°	805.4	791.7	736.7	681.7	736.7	791.7	805.4	755.1	688.0	654.5	541.7
105°	990.9	983.5	954.0	924.4	954.0	983.5	990.9	878.1	727.8	652.6	543.4
107.5°	1087.3	1089.1	1096.2	1103.4	1096.2	1089.1	1087.3	930.0	720.3	615.5	519.2
110°	1112.1	1119.8	1150.5	1181.3	1150.5	1119.8	1112.1	936.3	701.8	584.6	497.8



TEST NUMBER: P934315

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1096.3	1108.1	1155.4	1202.6	1155.4	1108.1	1096.3	916.4	676.5	556.5	479.1
115°	1042.8	1059.2	1124.7	1190.3	1124.7	1059.2	1042.8	869.5	638.4	522.8	457.6
117.5°	968.9	987.1	1059.8	1132.5	1059.8	987.1	968.9	812.5	603.9	499.6	444.2
120°	919.1	936.8	1007.4	1078.1	1007.4	936.8	919.1	776.2	585.6	490.3	439.6
122.5°	869.4	886.8	956.5	1026.1	956.5	886.8	869.4	740.7	569.0	483.2	437.2
125°	803.5	819.5	883.7	947.9	883.7	819.5	803.5	694.2	548.4	475.5	435.3
127.5°	750.6	764.1	818.3	872.5	818.3	764.1	750.6	656.7	531.6	469.0	434.2
130°	717.3	729.8	779.8	829.8	779.8	729.8	717.3	633.7	522.2	466.5	434.8
132.5°	688.8	700.0	744.8	789.6	744.8	700.0	688.8	614.0	514.3	464.4	435.3
135°	648.6	658.3	696.9	735.5	696.9	658.3	648.6	586.0	502.5	460.7	434.9
137.5°	618.9	626.8	658.5	690.1	658.5	626.8	618.9	565.9	495.3	460.0	437.5
140°	595.1	602.5	632.0	661.6	632.0	602.5	595.1	549.4	488.4	457.9	438.0
142.5°	578.4	584.8	610.2	635.6	610.2	584.8	578.4	538.2	484.7	457.9	439.6
145°	553.4	558.2	577.5	596.7	577.5	558.2	553.4	520.5	476.7	454.8	439.6
147.5°	532.4	536.4	552.3	568.2	552.3	536.4	532.4	506.5	472.0	454.8	442.6
150°	520.3	523.5	536.5	549.4	536.5	523.5	520.3	498.5	469.4	454.8	444.2
152.5°	510.7	513.1	522.9	532.7	522.9	513.1	510.7	492.1	467.2	454.8	445.2
155°	499.3	500.9	507.4	513.8	507.4	500.9	499.3	484.5	464.7	454.8	447.5
157.5°	489.4	490.5	495.1	499.6	495.1	490.5	489.4	477.9	462.5	454.8	449.8
160°	484.5	485.1	487.7	490.3	487.7	485.1	484.5	474.6	461.4	454.8	450.8
162.5°	479.8	480.4	482.9	485.4	482.9	480.4	479.8	471.5	460.4	454.8	451.9
165°	472.7	473.4	476.0	478.6	476.0	473.4	472.7	466.7	458.8	454.8	453.5
167.5°	469.6	469.9	471.0	472.1	471.0	469.9	469.6	465.7	460.5	457.9	456.8
170°	469.6	469.6	469.6	469.6	469.6	469.6	469.6	465.7	460.5	457.9	457.8
172.5°	467.1	466.9	465.9	465.0	465.9	466.9	467.1	464.0	459.9	457.9	457.9
175°	463.7	463.7	463.7	463.7	463.7	463.7	463.7	461.8	459.2	457.9	458.5
177.5°	463.1	462.8	461.8	460.7	461.8	462.8	463.1	461.6	459.5	458.5	459.0
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



TEST NUMBER: P934315
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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°	13.6	8.7	8.1	5.6	3.1
92.5°	83.9	59.7	54.4	33.4	12.4
95°	206.4	116.2	106.6	68.1	29.7
97.5°	278.1	127.7	119.2	85.3	51.3
100°	304.1	137.3	129.6	98.8	68.0
102.5°	316.1	146.9	139.7	111.0	82.2
105°	324.9	161.1	155.0	130.7	106.4
107.5°	326.6	182.1	176.4	153.8	131.1
110°	324.1	193.8	188.7	168.2	147.8



TEST NUMBER: P934315

CATALOG NUMBER: SQ4-FA-050U-075D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	324.2	208.1	203.2	183.7	164.2
115°	327.2	229.4	224.9	206.9	188.9
117.5°	333.3	250.1	246.0	229.7	213.3
120°	338.2	262.2	258.3	242.9	227.5
122.5°	345.3	276.4	272.5	257.0	241.5
125°	354.9	294.6	291.1	276.9	262.8
127.5°	364.5	312.3	308.7	294.4	280.1
130°	371.5	324.0	320.2	304.8	289.4
132.5°	377.2	333.6	329.8	314.4	299.0
135°	383.4	344.7	341.2	327.2	313.2
137.5°	392.6	358.9	355.4	341.6	327.7
140°	398.3	368.5	365.3	352.6	339.8
142.5°	403.0	375.6	372.6	360.8	349.0
145°	409.3	386.5	383.9	373.6	363.3
147.5°	418.3	400.1	397.6	387.5	377.5
150°	423.1	407.2	404.9	395.9	386.8
152.5°	426.1	411.8	410.1	403.2	396.3
155°	432.9	422.0	420.7	415.7	410.6
157.5°	439.7	432.2	431.0	426.0	421.1
160°	442.8	436.8	435.8	432.0	428.2
162.5°	446.1	441.8	441.1	438.2	435.3
165°	450.9	448.9	448.2	445.6	443.0
167.5°	454.6	452.9	452.6	451.3	450.1
170°	457.7	457.6	457.3	456.0	454.8
172.5°	457.9	457.9	457.8	457.6	457.3
175°	459.8	460.7	460.7	460.7	460.7
177.5°	460.0	460.7	460.7	460.7	460.7
180°	460.7	460.7	460.7	460.7	460.7



TEST NUMBER: P934315
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.44	14.37	14.32	15.28	16.43	16.26	17.20	17.15	18.11	19.26
	3H	13.92	14.76	14.82	15.68	16.85	17.61	18.45	18.51	19.37	20.55
	4H	14.11	14.91	15.03	15.83	17.02	18.06	18.85	18.97	19.77	20.96
	6H	14.24	14.97	15.16	15.90	17.10	18.35	19.08	19.27	20.00	21.21
	8H	14.24	14.94	15.17	15.88	17.08	18.42	19.12	19.35	20.06	21.26
	12H	14.21	14.88	15.15	15.82	17.04	18.46	19.13	19.40	20.06	21.29
4H	2H	14.48	15.27	15.40	16.19	17.38	16.68	17.47	17.60	18.40	19.58
	3H	15.51	16.17	16.44	17.13	18.33	18.19	18.85	19.12	19.81	21.01
	4H	15.79	16.40	16.73	17.34	18.57	18.72	19.33	19.66	20.27	21.50
	6H	15.92	16.44	16.87	17.41	18.64	19.09	19.61	20.04	20.58	21.81
	8H	15.93	16.41	16.88	17.38	18.62	19.20	19.68	20.15	20.65	21.89
	12H	15.90	16.34	16.87	17.32	18.57	19.26	19.70	20.23	20.68	21.92
8H	4H	16.25	16.74	17.21	17.70	18.94	18.85	19.34	19.81	20.30	21.55
	6H	16.51	16.92	17.50	17.92	19.16	19.29	19.69	20.27	20.70	21.94
	8H	16.56	16.91	17.55	17.91	19.17	19.44	19.80	20.43	20.79	22.05
	12H	16.55	16.86	17.54	17.85	19.15	19.54	19.86	20.54	20.84	22.15
12H	4H	16.26	16.70	17.23	17.68	18.93	18.82	19.26	19.80	20.24	21.49
	6H	16.58	16.93	17.57	17.93	19.19	19.29	19.64	20.28	20.64	21.90
	8H	16.65	16.96	17.64	17.95	19.25	19.45	19.77	20.45	20.75	22.06