

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: P934249

Luminaire Tested: SQ4-FA-050U-050D-930-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934249
REPORT IS A COMBINATION OF REPORTS P933689 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

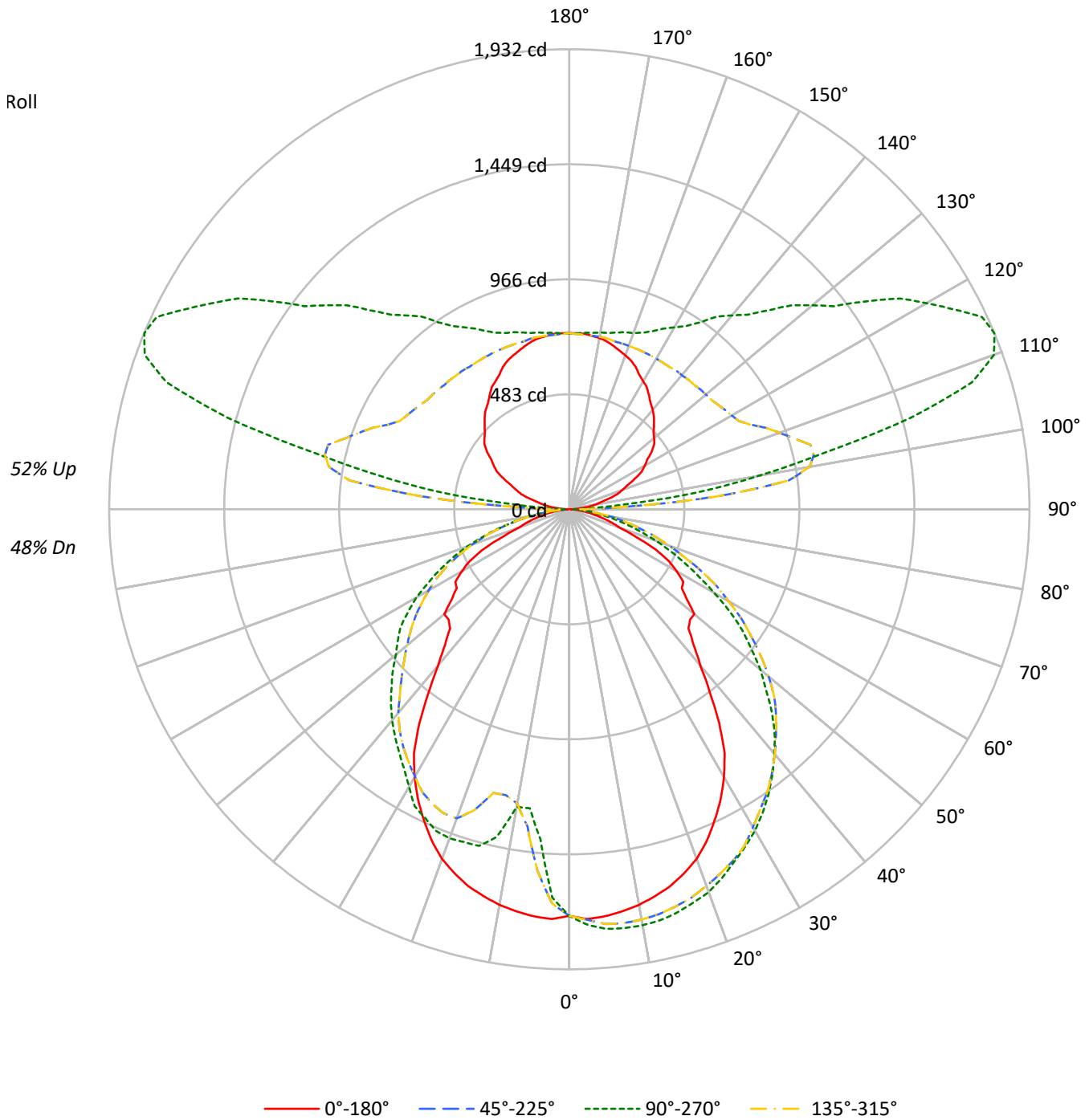
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9226.4 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 85.2
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				20
RC	80				70				50				30				10				0				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	0	
RCR																									
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	41	41	41	48	
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	40	39	34	34	34	41	
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	33	33	29	29	29	34	
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	28	28	25	25	25	29	
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	22	22	22	22	25	
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21	21	21	21	
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19	19	19	19	
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17	17	17	17	
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15	15	15	15	
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13	13	13	13	
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12	12	12	12	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5282	5282	5282	5282
5°	5323	5332	5323	4192
10°	5290	5252	5290	3755
15°	5234	5138	5234	4291
20°	5127	5004	5127	4300
25°	4905	4807	4905	4208
30°	4617	4644	4617	4009
35°	4118	4437	4118	3789
40°	3433	4194	3433	3623
45°	3070	3910	3070	3432
50°	3264	3570	3264	3240
55°	3074	3205	3074	3129
60°	3173	2722	3173	2866
65°	2881	2250	2881	2515
70°	2000	1793	2000	2108
75°	1759	1326	1759	1587
80°	1429	876	1429	955
85°	839	464	839	394

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4702 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.7
10°-20°	437.7	4.7
20°-30°	676.6	7.3
30°-40°	807.7	8.8
40°-50°	812.4	8.8
50°-60°	706.9	7.7
60°-70°	501.2	5.4
70°-80°	265.2	2.9
80°-90°	68.9	0.7
90°-100°	360.6	3.9
100°-110°	948.1	10.3
110°-120°	983.1	10.7
120°-130°	788.5	8.5
130°-140°	618.7	6.7
140°-150°	474.9	5.1
150°-160°	342.0	3.7
160°-170°	209.3	2.3
170°-180°	70.7	0.8
0°-30°	1268.4	13.7
0°-40°	2076.0	22.5
0°-60°	3595.3	39.0
0°-90°	4430.6	48.0
90°-120°	2291.7	24.8
90°-150°	4173.9	45.2
90°-180°	4796.0	52.0
0°-180°	9226.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1708	1708	1708	1708	1708	
5°	1716	1769	1716	1391	1716	163
15°	1638	1753	1638	1464	1638	461
25°	1443	1635	1443	1431	1443	662
35°	1097	1459	1097	1246	1097	679
45°	708	1202	708	1055	708	567
55°	577	887	577	866	577	530
65°	401	535	401	598	401	383
75°	152	254	152	304	152	160
85°	26	65	26	55	26	35
90°	5	19	5	19	5	5
95°	48	218	48	218	48	53
105°	171	1485	171	1485	171	181
115°	303	1912	303	1912	303	300
125°	422	1522	422	1522	422	375
135°	503	1181	503	1181	503	389
145°	583	958	583	958	583	365
155°	659	825	659	825	659	303
165°	712	769	712	769	712	201
175°	740	745	740	745	740	70
180°	740	740	740	740	740	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7
2.5°	1722.2	1722.2	1731.9	1735.1	1735.1	1730.3	1725.5	1730.3	1744.8	1749.7	1748.1
5°	1715.8	1728.7	1746.4	1749.7	1752.9	1751.3	1748.1	1751.3	1767.5	1770.7	1772.3
7.5°	1702.8	1727.1	1749.7	1754.6	1759.4	1754.6	1752.9	1756.2	1772.3	1775.5	1775.5
10°	1686.7	1720.6	1746.4	1749.7	1754.6	1749.7	1749.7	1756.2	1772.3	1775.5	1777.2
12.5°	1664.1	1711.0	1735.1	1738.4	1744.8	1743.2	1741.6	1748.1	1764.3	1767.5	1767.5
15°	1638.2	1693.1	1715.8	1719.0	1730.3	1727.1	1727.1	1733.5	1751.3	1756.2	1754.6
17.5°	1602.7	1670.6	1696.4	1701.2	1709.3	1707.7	1709.3	1715.8	1731.9	1735.1	1736.8
20°	1562.3	1639.8	1670.6	1675.4	1683.5	1683.5	1683.5	1691.5	1707.7	1714.2	1714.2
22.5°	1507.4	1607.5	1639.8	1643.1	1652.7	1652.7	1656.0	1667.3	1681.8	1683.5	1683.5
25°	1442.8	1572.0	1599.4	1609.1	1618.8	1623.7	1628.6	1635.0	1639.8	1638.2	1639.8
27.5°	1374.9	1526.7	1562.3	1568.7	1581.7	1586.5	1593.0	1594.6	1596.2	1601.0	1597.8
30°	1298.9	1463.7	1517.0	1523.5	1544.5	1547.8	1541.3	1544.5	1552.6	1555.8	1559.0
32.5°	1213.3	1370.0	1470.2	1484.7	1504.1	1494.5	1492.8	1497.7	1510.6	1510.6	1513.8
35°	1097.0	1297.3	1426.6	1439.5	1454.1	1442.8	1449.2	1450.8	1458.9	1463.7	1462.1
37.5°	969.4	1234.3	1381.3	1391.0	1402.4	1387.8	1397.5	1402.4	1408.8	1405.6	1405.6
40°	856.2	1135.8	1328.0	1334.5	1344.1	1332.9	1342.5	1345.8	1349.0	1345.8	1344.1
42.5°	772.2	1027.5	1271.5	1279.6	1273.1	1281.2	1284.4	1290.9	1286.0	1279.6	1279.6
45°	707.6	998.5	1210.1	1219.8	1210.1	1223.0	1227.9	1227.9	1213.3	1210.1	1208.4
47.5°	686.6	940.3	1148.7	1148.7	1143.9	1160.0	1168.0	1156.8	1142.3	1137.4	1137.4
50°	685.0	875.7	1064.7	1058.2	1080.8	1100.2	1092.2	1080.8	1069.5	1051.8	1051.8
52.5°	622.0	796.5	956.5	980.7	1016.2	1027.5	1014.6	1003.3	983.9	975.8	969.4
55°	576.8	714.1	857.8	906.3	943.5	958.1	933.8	922.5	893.4	888.6	885.4
57.5°	567.1	594.5	767.4	828.8	874.1	872.5	857.8	836.9	812.6	807.8	806.2
60°	520.3	429.8	670.5	743.2	790.0	785.2	772.2	752.9	730.2	727.0	723.8
62.5°	471.8	311.8	560.6	643.0	709.2	707.6	696.4	667.2	651.1	643.0	636.5
65°	400.7	261.7	399.1	534.8	630.1	633.3	609.1	588.1	570.3	560.6	559.0
67.5°	305.4	213.3	269.8	445.9	554.2	550.9	520.3	510.5	487.9	483.1	473.4
70°	226.2	142.2	187.4	361.9	479.9	471.8	447.5	436.2	415.2	403.9	397.4
72.5°	187.4	114.7	137.3	281.1	403.9	394.2	373.2	360.3	342.5	332.8	326.3
75°	151.8	121.2	105.0	208.4	327.9	321.5	302.1	289.2	274.6	261.7	263.3
77.5°	111.5	113.1	84.0	153.5	260.1	250.5	239.1	223.0	216.5	203.6	203.6
80°	84.0	88.9	63.0	105.0	187.4	187.4	177.7	166.4	155.1	148.6	148.6
82.5°	56.5	56.5	46.8	66.2	127.6	122.8	116.4	113.1	106.6	103.4	103.4
85°	25.9	32.3	29.1	40.4	69.5	72.7	72.7	69.5	67.9	64.6	66.2
87.5°	8.1	14.5	17.7	22.6	35.6	37.2	38.8	38.8	38.8	40.4	40.4
90°	5.0	8.9	12.9	13.9	21.8	32.4	37.7	33.6	25.1	18.9	18.9
92.5°	19.8	53.6	87.4	95.8	134.7	186.5	212.5	186.2	133.7	94.4	90.6
95°	47.7	109.4	171.3	186.7	331.5	524.6	621.1	554.2	420.5	320.2	308.8
97.5°	82.4	136.9	191.4	205.1	446.5	768.5	929.5	887.2	802.7	739.3	717.7
100°	109.2	158.7	208.1	220.4	488.4	845.6	1024.3	1027.4	1033.5	1038.2	1012.4
102.5°	132.1	178.2	224.3	235.8	507.6	870.0	1051.1	1104.9	1212.6	1293.4	1271.3
105°	170.8	209.8	248.8	258.6	521.8	872.7	1048.2	1168.8	1410.2	1591.3	1579.4
107.5°	210.5	246.9	283.4	292.5	524.5	833.9	988.6	1157.0	1493.7	1746.3	1749.2
110°	237.4	270.2	303.1	311.3	520.5	799.5	938.9	1127.2	1503.6	1786.0	1798.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	263.6	294.9	326.3	334.1	520.7	769.4	893.7	1086.4	1471.7	1760.7	1779.6
115°	303.4	332.3	361.2	368.4	525.5	734.9	839.6	1025.2	1396.3	1674.7	1701.1
117.5°	342.6	368.8	395.1	401.7	535.2	713.3	802.4	969.9	1304.8	1556.1	1585.2
120°	365.4	390.2	414.8	421.0	543.1	706.1	787.5	940.6	1246.6	1476.2	1504.5
122.5°	387.8	412.7	437.6	443.9	554.6	702.2	776.0	913.8	1189.5	1396.2	1424.1
125°	422.1	444.8	467.5	473.2	570.0	699.1	763.7	880.7	1114.8	1290.4	1316.2
127.5°	449.8	472.8	495.8	501.5	585.4	697.2	753.2	853.7	1054.7	1205.5	1227.3
130°	464.8	489.5	514.2	520.3	596.6	698.4	749.3	838.7	1017.7	1151.9	1172.0
132.5°	480.1	504.8	529.6	535.8	605.8	699.1	745.7	825.9	986.1	1106.2	1124.2
135°	503.0	525.5	548.0	553.6	615.7	698.4	739.8	806.9	941.1	1041.7	1057.2
137.5°	526.3	548.6	570.9	576.5	630.6	702.8	738.8	795.5	909.0	994.0	1006.7
140°	545.6	566.2	586.7	591.8	639.7	703.4	735.3	784.3	882.3	955.8	967.7
142.5°	560.6	579.5	598.6	603.3	647.3	706.0	735.3	778.3	864.4	929.0	939.2
145°	583.4	599.9	616.5	620.6	657.3	706.0	730.4	765.6	836.0	888.8	896.5
147.5°	606.3	622.3	638.5	642.5	671.8	710.9	730.4	758.1	813.5	855.0	861.5
150°	621.1	635.7	650.3	653.9	679.4	713.4	730.4	753.8	800.5	835.6	840.8
152.5°	636.5	647.5	658.6	661.4	684.4	715.1	730.4	750.4	790.3	820.3	824.2
155°	659.3	667.5	675.7	677.7	695.3	718.7	730.4	746.3	778.0	801.9	804.4
157.5°	676.3	684.2	692.1	694.1	706.2	722.4	730.4	742.8	767.4	786.0	787.8
160°	687.7	693.9	700.1	701.6	711.2	724.0	730.4	741.0	762.1	778.0	779.1
162.5°	699.1	703.7	708.4	709.5	716.5	725.8	730.4	739.3	757.1	770.6	771.5
165°	711.5	715.7	719.9	720.9	724.1	728.3	730.4	736.8	749.6	759.2	760.2
167.5°	722.9	724.9	726.9	727.4	730.0	733.5	735.3	739.5	747.9	754.2	754.7
170°	730.4	732.3	734.3	734.8	735.0	735.2	735.3	739.5	747.9	754.2	754.2
172.5°	734.3	734.7	735.2	735.3	735.3	735.3	735.3	738.6	745.3	750.2	749.8
175°	739.8	739.8	739.8	739.8	738.3	736.3	735.3	737.4	741.7	744.8	744.8
177.5°	739.8	739.8	739.8	739.8	738.7	737.2	736.4	738.0	741.3	743.8	743.3
180°	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7
2.5°	1751.3	1746.4	1751.3	1748.1	1749.7	1744.8	1730.3	1725.5	1730.3	1735.1	1735.1
5°	1772.3	1769.1	1772.3	1772.3	1770.7	1767.5	1751.3	1748.1	1751.3	1752.9	1749.7
7.5°	1778.8	1773.9	1778.8	1775.5	1775.5	1772.3	1756.2	1752.9	1754.6	1759.4	1754.6
10°	1778.8	1773.9	1778.8	1777.2	1775.5	1772.3	1756.2	1749.7	1749.7	1754.6	1749.7
12.5°	1770.7	1767.5	1770.7	1767.5	1767.5	1764.3	1748.1	1741.6	1743.2	1744.8	1738.4
15°	1757.8	1752.9	1757.8	1754.6	1756.2	1751.3	1733.5	1727.1	1727.1	1730.3	1719.0
17.5°	1738.4	1731.9	1738.4	1736.8	1735.1	1731.9	1715.8	1709.3	1707.7	1709.3	1701.2
20°	1715.8	1711.0	1715.8	1714.2	1714.2	1707.7	1691.5	1683.5	1683.5	1683.5	1675.4
22.5°	1680.2	1675.4	1680.2	1683.5	1683.5	1681.8	1667.3	1656.0	1652.7	1652.7	1643.1
25°	1639.8	1635.0	1639.8	1639.8	1638.2	1639.8	1635.0	1628.6	1623.7	1618.8	1609.1
27.5°	1601.0	1597.8	1601.0	1597.8	1601.0	1596.2	1594.6	1593.0	1586.5	1581.7	1568.7
30°	1562.3	1559.0	1562.3	1559.0	1555.8	1552.6	1544.5	1541.3	1547.8	1544.5	1523.5
32.5°	1513.8	1510.6	1513.8	1513.8	1510.6	1510.6	1497.7	1492.8	1494.5	1504.1	1484.7
35°	1463.7	1458.9	1463.7	1462.1	1463.7	1458.9	1450.8	1449.2	1442.8	1454.1	1439.5
37.5°	1405.6	1400.8	1405.6	1405.6	1405.6	1408.8	1402.4	1397.5	1387.8	1402.4	1391.0
40°	1345.8	1339.3	1345.8	1344.1	1345.8	1349.0	1345.8	1342.5	1332.9	1344.1	1334.5
42.5°	1278.0	1276.3	1278.0	1279.6	1279.6	1286.0	1290.9	1284.4	1281.2	1273.1	1279.6
45°	1205.2	1202.0	1205.2	1208.4	1210.1	1213.3	1227.9	1227.9	1223.0	1210.1	1219.8
47.5°	1127.7	1119.6	1127.7	1137.4	1137.4	1142.3	1156.8	1168.0	1160.0	1143.9	1148.7
50°	1045.3	1046.9	1045.3	1051.8	1051.8	1069.5	1080.8	1092.2	1100.2	1080.8	1058.2
52.5°	964.5	962.9	964.5	969.4	975.8	983.9	1003.3	1014.6	1027.5	1016.2	980.7
55°	883.7	887.0	883.7	885.4	888.6	893.4	922.5	933.8	958.1	943.5	906.3
57.5°	802.9	798.1	802.9	806.2	807.8	812.6	836.9	857.8	872.5	874.1	828.8
60°	709.2	702.8	709.2	723.8	727.0	730.2	752.9	772.2	785.2	790.0	743.2
62.5°	626.8	615.6	626.8	636.5	643.0	651.1	667.2	696.4	707.6	709.2	643.0
65°	539.6	534.8	539.6	559.0	560.6	570.3	588.1	609.1	633.3	630.1	534.8
67.5°	460.4	460.4	460.4	473.4	483.1	487.9	510.5	520.3	550.9	554.2	445.9
70°	387.8	386.2	387.8	397.4	403.9	415.2	436.2	447.5	471.8	479.9	361.9
72.5°	318.3	316.6	318.3	326.3	332.8	342.5	360.3	373.2	394.2	403.9	281.1
75°	256.9	253.7	256.9	263.3	261.7	274.6	289.2	302.1	321.5	327.9	208.4
77.5°	197.1	197.1	197.1	203.6	203.6	216.5	223.0	239.1	250.5	260.1	153.5
80°	147.0	145.4	147.0	148.6	148.6	155.1	166.4	177.7	187.4	187.4	105.0
82.5°	103.4	100.1	103.4	103.4	103.4	106.6	113.1	116.4	122.8	127.6	66.2
85°	64.6	64.6	64.6	66.2	64.6	67.9	69.5	72.7	72.7	69.5	40.4
87.5°	42.0	40.4	42.0	40.4	40.4	38.8	38.8	38.8	37.2	35.6	22.6
90°	18.9	18.9	18.9	18.9	18.9	25.1	33.6	37.7	32.4	21.8	13.9
92.5°	75.6	60.5	75.6	90.6	94.4	133.7	186.2	212.5	186.5	134.7	95.8
95°	263.4	217.9	263.4	308.8	320.2	420.5	554.2	621.1	524.6	331.5	186.7
97.5°	631.2	544.7	631.2	717.7	739.3	802.7	887.2	929.5	768.5	446.5	205.1
100°	909.4	806.4	909.4	1012.4	1038.2	1033.5	1027.4	1024.3	845.6	488.4	220.4
102.5°	1183.1	1094.8	1183.1	1271.3	1293.4	1212.6	1104.9	1051.1	870.0	507.6	235.8
105°	1532.0	1484.6	1532.0	1579.4	1591.3	1410.2	1168.8	1048.2	872.7	521.8	258.6
107.5°	1760.6	1772.1	1760.6	1749.2	1746.3	1493.7	1157.0	988.6	833.9	524.5	292.5
110°	1847.7	1897.2	1847.7	1798.3	1786.0	1503.6	1127.2	938.9	799.5	520.5	311.3



TEST NUMBER: P934249

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1855.6	1931.5	1855.6	1779.6	1760.7	1471.7	1086.4	893.7	769.4	520.7	334.1
115°	1806.3	1911.6	1806.3	1701.1	1674.7	1396.3	1025.2	839.6	734.9	525.5	368.4
117.5°	1702.0	1818.7	1702.0	1585.2	1556.1	1304.8	969.9	802.4	713.3	535.2	401.7
120°	1618.0	1731.3	1618.0	1504.5	1476.2	1246.6	940.6	787.5	706.1	543.1	421.0
122.5°	1536.1	1647.9	1536.1	1424.1	1396.2	1189.5	913.8	776.0	702.2	554.6	443.9
125°	1419.2	1522.3	1419.2	1316.2	1290.4	1114.8	880.7	763.7	699.1	570.0	473.2
127.5°	1314.2	1401.2	1314.2	1227.3	1205.5	1054.7	853.7	753.2	697.2	585.4	501.5
130°	1252.4	1332.7	1252.4	1172.0	1151.9	1017.7	838.7	749.3	698.4	596.6	520.3
132.5°	1196.1	1268.1	1196.1	1124.2	1106.2	986.1	825.9	745.7	699.1	605.8	535.8
135°	1119.2	1181.2	1119.2	1057.2	1041.7	941.1	806.9	739.8	698.4	615.7	553.6
137.5°	1057.5	1108.2	1057.5	1006.7	994.0	909.0	795.5	738.8	702.8	630.6	576.5
140°	1015.1	1062.5	1015.1	967.7	955.8	882.3	784.3	735.3	703.4	639.7	591.8
142.5°	980.1	1020.9	980.1	939.2	929.0	864.4	778.3	735.3	706.0	647.3	603.3
145°	927.4	958.3	927.4	896.5	888.8	836.0	765.6	730.4	706.0	657.3	620.6
147.5°	887.0	912.6	887.0	861.5	855.0	813.5	758.1	730.4	710.9	671.8	642.5
150°	861.5	882.3	861.5	840.8	835.6	800.5	753.8	730.4	713.4	679.4	653.9
152.5°	839.9	855.5	839.9	824.2	820.3	790.3	750.4	730.4	715.1	684.4	661.4
155°	814.9	825.2	814.9	804.4	801.9	778.0	746.3	730.4	718.7	695.3	677.7
157.5°	795.1	802.4	795.1	787.8	786.0	767.4	742.8	730.4	722.4	706.2	694.1
160°	783.3	787.5	783.3	779.1	778.0	762.1	741.0	730.4	724.0	711.2	701.6
162.5°	775.5	779.6	775.5	771.5	770.6	757.1	739.3	730.4	725.8	716.5	709.5
165°	764.5	768.6	764.5	760.2	759.2	749.6	736.8	730.4	728.3	724.1	720.9
167.5°	756.4	758.2	756.4	754.7	754.2	747.9	739.5	735.3	733.5	730.0	727.4
170°	754.2	754.2	754.2	754.2	754.2	747.9	739.5	735.3	735.2	735.0	734.8
172.5°	748.3	746.8	748.3	749.8	750.2	745.3	738.6	735.3	735.3	735.3	735.3
175°	744.8	744.8	744.8	744.8	744.8	741.7	737.4	735.3	736.3	738.3	739.8
177.5°	741.6	739.8	741.6	743.3	743.8	741.3	738.0	736.4	737.2	738.7	739.8
180°	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7
2.5°	1731.9	1722.2	1722.2	1706.1	1699.6	1694.7	1686.7	1662.5	1656.0	1649.5	1659.2
5°	1746.4	1728.7	1715.8	1686.7	1662.5	1652.7	1622.1	1563.9	1525.1	1496.1	1479.9
7.5°	1749.7	1727.1	1702.8	1657.6	1599.4	1573.6	1479.9	1373.3	1344.1	1318.4	1302.1
10°	1746.4	1720.6	1686.7	1618.8	1481.5	1436.2	1342.5	1273.1	1255.3	1250.5	1255.3
12.5°	1735.1	1711.0	1664.1	1551.0	1358.8	1328.0	1273.1	1232.7	1229.5	1237.6	1281.2
15°	1715.8	1693.1	1638.2	1460.5	1290.9	1268.3	1229.5	1214.9	1232.7	1289.2	1420.1
17.5°	1696.4	1670.6	1602.7	1371.7	1239.2	1223.0	1195.5	1224.7	1324.8	1400.8	1444.4
20°	1670.6	1639.8	1562.3	1307.0	1202.0	1187.5	1174.5	1305.4	1381.3	1408.8	1433.0
22.5°	1639.8	1607.5	1507.4	1261.8	1163.2	1151.9	1160.0	1350.6	1381.3	1400.8	1421.7
25°	1599.4	1572.0	1442.8	1226.3	1132.6	1119.6	1150.3	1345.8	1363.6	1368.4	1410.4
27.5°	1562.3	1526.7	1374.9	1193.9	1095.4	1090.6	1158.4	1324.8	1337.7	1342.5	1387.8
30°	1517.0	1463.7	1298.9	1160.0	1056.6	1055.0	1160.0	1298.9	1295.7	1308.6	1353.9
32.5°	1470.2	1370.0	1213.3	1118.0	1019.4	1017.8	1148.7	1260.1	1256.9	1274.7	1308.6
35°	1426.6	1297.3	1097.0	1069.5	972.6	974.2	1121.2	1214.9	1216.5	1232.7	1253.7
37.5°	1381.3	1234.3	969.4	1016.2	927.4	927.4	1084.0	1172.9	1169.7	1174.5	1203.6
40°	1328.0	1135.8	856.2	946.7	885.4	880.5	1038.8	1127.7	1116.4	1114.8	1155.1
42.5°	1271.5	1027.5	772.2	854.6	836.9	830.4	983.9	1072.7	1051.8	1056.6	1108.3
45°	1210.1	998.5	707.6	722.1	786.8	782.0	924.1	1009.8	995.2	1008.2	1061.5
47.5°	1148.7	940.3	686.6	599.4	733.5	731.9	857.8	948.3	940.3	953.2	1009.8
50°	1064.7	875.7	685.0	513.8	673.7	680.1	778.7	888.6	888.6	899.9	959.7
52.5°	956.5	796.5	622.0	465.3	604.3	623.6	709.2	836.9	840.1	851.4	904.7
55°	857.8	714.1	576.8	428.2	521.9	563.9	641.4	783.6	790.0	801.3	849.8
57.5°	767.4	594.5	567.1	384.5	445.9	486.3	581.6	731.9	735.1	744.8	791.7
60°	670.5	429.8	520.3	337.7	379.7	410.3	526.7	670.5	681.7	688.3	728.6
62.5°	560.6	311.8	471.8	305.4	347.4	353.8	481.5	612.3	626.8	631.7	656.0
65°	399.1	261.7	400.7	277.9	313.4	315.0	433.0	552.5	565.5	573.5	591.3
67.5°	269.8	213.3	305.4	252.1	287.6	289.2	386.2	483.1	500.8	507.3	518.6
70°	187.4	142.2	226.2	224.6	258.5	261.7	336.1	420.0	436.2	441.1	447.5
72.5°	137.3	114.7	187.4	202.0	227.8	231.0	284.3	349.0	365.1	369.9	373.2
75°	105.0	121.2	151.8	176.1	193.8	195.5	232.6	284.3	295.7	298.9	300.5
77.5°	84.0	113.1	111.5	142.2	158.4	155.1	182.6	219.7	229.4	229.4	229.4
80°	63.0	88.9	84.0	101.8	116.4	113.1	130.9	156.7	160.0	163.2	161.6
82.5°	46.8	56.5	56.5	64.6	77.6	74.4	87.2	101.8	101.8	101.8	105.0
85°	29.1	32.3	25.9	34.0	43.6	42.0	48.5	54.9	56.5	56.5	53.3
87.5°	17.7	14.5	8.1	12.9	19.4	19.4	22.6	24.3	22.6	22.6	22.6
90°	12.9	8.9	5.0	8.9	12.9	13.9	21.8	32.4	37.7	33.6	25.1
92.5°	87.4	53.6	19.8	53.6	87.4	95.8	134.7	186.5	212.5	186.2	133.7
95°	171.3	109.4	47.7	109.4	171.3	186.7	331.5	524.6	621.1	554.2	420.5
97.5°	191.4	136.9	82.4	136.9	191.4	205.1	446.5	768.5	929.5	887.2	802.7
100°	208.1	158.7	109.2	158.7	208.1	220.4	488.4	845.6	1024.3	1027.4	1033.5
102.5°	224.3	178.2	132.1	178.2	224.3	235.8	507.6	870.0	1051.1	1104.9	1212.6
105°	248.8	209.8	170.8	209.8	248.8	258.6	521.8	872.7	1048.2	1168.8	1410.2
107.5°	283.4	246.9	210.5	246.9	283.4	292.5	524.5	833.9	988.6	1157.0	1493.7
110°	303.1	270.2	237.4	270.2	303.1	311.3	520.5	799.5	938.9	1127.2	1503.6



TEST NUMBER: P934249

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	326.3	294.9	263.6	294.9	326.3	334.1	520.7	769.4	893.7	1086.4	1471.7
115°	361.2	332.3	303.4	332.3	361.2	368.4	525.5	734.9	839.6	1025.2	1396.3
117.5°	395.1	368.8	342.6	368.8	395.1	401.7	535.2	713.3	802.4	969.9	1304.8
120°	414.8	390.2	365.4	390.2	414.8	421.0	543.1	706.1	787.5	940.6	1246.6
122.5°	437.6	412.7	387.8	412.7	437.6	443.9	554.6	702.2	776.0	913.8	1189.5
125°	467.5	444.8	422.1	444.8	467.5	473.2	570.0	699.1	763.7	880.7	1114.8
127.5°	495.8	472.8	449.8	472.8	495.8	501.5	585.4	697.2	753.2	853.7	1054.7
130°	514.2	489.5	464.8	489.5	514.2	520.3	596.6	698.4	749.3	838.7	1017.7
132.5°	529.6	504.8	480.1	504.8	529.6	535.8	605.8	699.1	745.7	825.9	986.1
135°	548.0	525.5	503.0	525.5	548.0	553.6	615.7	698.4	739.8	806.9	941.1
137.5°	570.9	548.6	526.3	548.6	570.9	576.5	630.6	702.8	738.8	795.5	909.0
140°	586.7	566.2	545.6	566.2	586.7	591.8	639.7	703.4	735.3	784.3	882.3
142.5°	598.6	579.5	560.6	579.5	598.6	603.3	647.3	706.0	735.3	778.3	864.4
145°	616.5	599.9	583.4	599.9	616.5	620.6	657.3	706.0	730.4	765.6	836.0
147.5°	638.5	622.3	606.3	622.3	638.5	642.5	671.8	710.9	730.4	758.1	813.5
150°	650.3	635.7	621.1	635.7	650.3	653.9	679.4	713.4	730.4	753.8	800.5
152.5°	658.6	647.5	636.5	647.5	658.6	661.4	684.4	715.1	730.4	750.4	790.3
155°	675.7	667.5	659.3	667.5	675.7	677.7	695.3	718.7	730.4	746.3	778.0
157.5°	692.1	684.2	676.3	684.2	692.1	694.1	706.2	722.4	730.4	742.8	767.4
160°	700.1	693.9	687.7	693.9	700.1	701.6	711.2	724.0	730.4	741.0	762.1
162.5°	708.4	703.7	699.1	703.7	708.4	709.5	716.5	725.8	730.4	739.3	757.1
165°	719.9	715.7	711.5	715.7	719.9	720.9	724.1	728.3	730.4	736.8	749.6
167.5°	726.9	724.9	722.9	724.9	726.9	727.4	730.0	733.5	735.3	739.5	747.9
170°	734.3	732.3	730.4	732.3	734.3	734.8	735.0	735.2	735.3	739.5	747.9
172.5°	735.2	734.7	734.3	734.7	735.2	735.3	735.3	735.3	735.3	738.6	745.3
175°	739.8	739.8	739.8	739.8	739.8	739.8	738.3	736.3	735.3	737.4	741.7
177.5°	739.8	739.8	739.8	739.8	739.8	739.8	738.7	737.2	736.4	738.0	741.3
180°	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8



TEST NUMBER: P934249
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7	1707.7
2.5°	1647.9	1643.1	1649.5	1631.8	1649.5	1643.1	1647.9	1659.2	1649.5	1656.0	1662.5
5°	1446.0	1437.9	1412.1	1391.0	1412.1	1437.9	1446.0	1479.9	1496.1	1525.1	1563.9
7.5°	1292.5	1286.0	1279.6	1266.7	1279.6	1286.0	1292.5	1302.1	1318.4	1344.1	1373.3
10°	1258.5	1260.1	1269.9	1268.3	1269.9	1260.1	1258.5	1255.3	1250.5	1255.3	1273.1
12.5°	1345.8	1360.4	1413.7	1410.4	1413.7	1360.4	1345.8	1281.2	1237.6	1229.5	1232.7
15°	1446.0	1450.8	1462.1	1463.7	1462.1	1450.8	1446.0	1420.1	1289.2	1232.7	1214.9
17.5°	1455.7	1457.3	1465.3	1465.3	1465.3	1457.3	1455.7	1444.4	1400.8	1324.8	1224.7
20°	1447.6	1450.8	1467.0	1470.2	1467.0	1450.8	1447.6	1433.0	1408.8	1381.3	1305.4
22.5°	1444.4	1450.8	1463.7	1462.1	1463.7	1450.8	1444.4	1421.7	1400.8	1381.3	1350.6
25°	1428.2	1428.2	1429.8	1431.4	1429.8	1428.2	1428.2	1410.4	1368.4	1363.6	1345.8
27.5°	1394.2	1397.5	1407.2	1405.6	1407.2	1397.5	1394.2	1387.8	1342.5	1337.7	1324.8
30°	1363.6	1360.4	1352.3	1345.8	1352.3	1360.4	1363.6	1353.9	1308.6	1295.7	1298.9
32.5°	1311.9	1303.8	1295.7	1290.9	1295.7	1303.8	1311.9	1308.6	1274.7	1256.9	1260.1
35°	1250.5	1252.1	1250.5	1245.6	1250.5	1252.1	1250.5	1253.7	1232.7	1216.5	1214.9
37.5°	1206.8	1210.1	1208.4	1202.0	1208.4	1210.1	1206.8	1203.6	1174.5	1169.7	1172.9
40°	1161.6	1163.2	1161.6	1156.8	1161.6	1163.2	1161.6	1155.1	1114.8	1116.4	1127.7
42.5°	1118.0	1116.4	1111.5	1108.3	1111.5	1116.4	1118.0	1108.3	1056.6	1051.8	1072.7
45°	1067.9	1069.5	1059.8	1055.0	1059.8	1069.5	1067.9	1061.5	1008.2	995.2	1009.8
47.5°	1017.8	1017.8	1009.8	1004.9	1009.8	1017.8	1017.8	1009.8	953.2	940.3	948.3
50°	964.5	962.9	951.6	949.9	951.6	962.9	964.5	959.7	899.9	888.6	888.6
52.5°	903.1	903.1	904.7	908.0	904.7	903.1	903.1	904.7	851.4	840.1	836.9
55°	849.8	851.4	862.7	866.0	862.7	851.4	849.8	849.8	801.3	790.0	783.6
57.5°	794.9	794.9	802.9	802.9	802.9	794.9	794.9	791.7	744.8	735.1	731.9
60°	731.9	735.1	741.6	740.0	741.6	735.1	731.9	728.6	688.3	681.7	670.5
62.5°	665.6	668.9	670.5	667.2	670.5	668.9	665.6	656.0	631.7	626.8	612.3
65°	596.1	599.4	601.0	597.8	601.0	599.4	596.1	591.3	573.5	565.5	552.5
67.5°	525.1	523.5	521.9	528.3	521.9	523.5	525.1	518.6	507.3	500.8	483.1
70°	452.3	452.3	450.7	454.0	450.7	452.3	452.3	447.5	441.1	436.2	420.0
72.5°	374.8	373.2	379.7	374.8	379.7	373.2	374.8	373.2	369.9	365.1	349.0
75°	298.9	302.1	298.9	303.7	298.9	302.1	298.9	300.5	298.9	295.7	284.3
77.5°	227.8	231.0	227.8	227.8	227.8	231.0	227.8	229.4	229.4	229.4	219.7
80°	161.6	160.0	160.0	158.4	160.0	160.0	161.6	161.6	163.2	160.0	156.7
82.5°	103.4	101.8	101.8	105.0	101.8	101.8	103.4	105.0	101.8	101.8	101.8
85°	56.5	58.1	54.9	54.9	54.9	58.1	56.5	53.3	56.5	56.5	54.9
87.5°	21.0	19.4	19.4	19.4	19.4	19.4	21.0	22.6	22.6	22.6	24.3
90°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	25.1	33.6	37.7	32.4
92.5°	94.4	90.6	75.6	60.5	75.6	90.6	94.4	133.7	186.2	212.5	186.5
95°	320.2	308.8	263.4	217.9	263.4	308.8	320.2	420.5	554.2	621.1	524.6
97.5°	739.3	717.7	631.2	544.7	631.2	717.7	739.3	802.7	887.2	929.5	768.5
100°	1038.2	1012.4	909.4	806.4	909.4	1012.4	1038.2	1033.5	1027.4	1024.3	845.6
102.5°	1293.4	1271.3	1183.1	1094.8	1183.1	1271.3	1293.4	1212.6	1104.9	1051.1	870.0
105°	1591.3	1579.4	1532.0	1484.6	1532.0	1579.4	1591.3	1410.2	1168.8	1048.2	872.7
107.5°	1746.3	1749.2	1760.6	1772.1	1760.6	1749.2	1746.3	1493.7	1157.0	988.6	833.9
110°	1786.0	1798.3	1847.7	1897.2	1847.7	1798.3	1786.0	1503.6	1127.2	938.9	799.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1760.7	1779.6	1855.6	1931.5	1855.6	1779.6	1760.7	1471.7	1086.4	893.7	769.4
115°	1674.7	1701.1	1806.3	1911.6	1806.3	1701.1	1674.7	1396.3	1025.2	839.6	734.9
117.5°	1556.1	1585.2	1702.0	1818.7	1702.0	1585.2	1556.1	1304.8	969.9	802.4	713.3
120°	1476.2	1504.5	1618.0	1731.3	1618.0	1504.5	1476.2	1246.6	940.6	787.5	706.1
122.5°	1396.2	1424.1	1536.1	1647.9	1536.1	1424.1	1396.2	1189.5	913.8	776.0	702.2
125°	1290.4	1316.2	1419.2	1522.3	1419.2	1316.2	1290.4	1114.8	880.7	763.7	699.1
127.5°	1205.5	1227.3	1314.2	1401.2	1314.2	1227.3	1205.5	1054.7	853.7	753.2	697.2
130°	1151.9	1172.0	1252.4	1332.7	1252.4	1172.0	1151.9	1017.7	838.7	749.3	698.4
132.5°	1106.2	1124.2	1196.1	1268.1	1196.1	1124.2	1106.2	986.1	825.9	745.7	699.1
135°	1041.7	1057.2	1119.2	1181.2	1119.2	1057.2	1041.7	941.1	806.9	739.8	698.4
137.5°	994.0	1006.7	1057.5	1108.2	1057.5	1006.7	994.0	909.0	795.5	738.8	702.8
140°	955.8	967.7	1015.1	1062.5	1015.1	967.7	955.8	882.3	784.3	735.3	703.4
142.5°	929.0	939.2	980.1	1020.9	980.1	939.2	929.0	864.4	778.3	735.3	706.0
145°	888.8	896.5	927.4	958.3	927.4	896.5	888.8	836.0	765.6	730.4	706.0
147.5°	855.0	861.5	887.0	912.6	887.0	861.5	855.0	813.5	758.1	730.4	710.9
150°	835.6	840.8	861.5	882.3	861.5	840.8	835.6	800.5	753.8	730.4	713.4
152.5°	820.3	824.2	839.9	855.5	839.9	824.2	820.3	790.3	750.4	730.4	715.1
155°	801.9	804.4	814.9	825.2	814.9	804.4	801.9	778.0	746.3	730.4	718.7
157.5°	786.0	787.8	795.1	802.4	795.1	787.8	786.0	767.4	742.8	730.4	722.4
160°	778.0	779.1	783.3	787.5	783.3	779.1	778.0	762.1	741.0	730.4	724.0
162.5°	770.6	771.5	775.5	779.6	775.5	771.5	770.6	757.1	739.3	730.4	725.8
165°	759.2	760.2	764.5	768.6	764.5	760.2	759.2	749.6	736.8	730.4	728.3
167.5°	754.2	754.7	756.4	758.2	756.4	754.7	754.2	747.9	739.5	735.3	733.5
170°	754.2	754.2	754.2	754.2	754.2	754.2	754.2	747.9	739.5	735.3	735.2
172.5°	750.2	749.8	748.3	746.8	748.3	749.8	750.2	745.3	738.6	735.3	735.3
175°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	741.7	737.4	735.3	736.3
177.5°	743.8	743.3	741.6	739.8	741.6	743.3	743.8	741.3	738.0	736.4	737.2
180°	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8	739.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1707.7	1707.7	1707.7	1707.7	1707.7
2.5°	1686.7	1694.7	1699.6	1706.1	1722.2
5°	1622.1	1652.7	1662.5	1686.7	1715.8
7.5°	1479.9	1573.6	1599.4	1657.6	1702.8
10°	1342.5	1436.2	1481.5	1618.8	1686.7
12.5°	1273.1	1328.0	1358.8	1551.0	1664.1
15°	1229.5	1268.3	1290.9	1460.5	1638.2
17.5°	1195.5	1223.0	1239.2	1371.7	1602.7
20°	1174.5	1187.5	1202.0	1307.0	1562.3
22.5°	1160.0	1151.9	1163.2	1261.8	1507.4
25°	1150.3	1119.6	1132.6	1226.3	1442.8
27.5°	1158.4	1090.6	1095.4	1193.9	1374.9
30°	1160.0	1055.0	1056.6	1160.0	1298.9
32.5°	1148.7	1017.8	1019.4	1118.0	1213.3
35°	1121.2	974.2	972.6	1069.5	1097.0
37.5°	1084.0	927.4	927.4	1016.2	969.4
40°	1038.8	880.5	885.4	946.7	856.2
42.5°	983.9	830.4	836.9	854.6	772.2
45°	924.1	782.0	786.8	722.1	707.6
47.5°	857.8	731.9	733.5	599.4	686.6
50°	778.7	680.1	673.7	513.8	685.0
52.5°	709.2	623.6	604.3	465.3	622.0
55°	641.4	563.9	521.9	428.2	576.8
57.5°	581.6	486.3	445.9	384.5	567.1
60°	526.7	410.3	379.7	337.7	520.3
62.5°	481.5	353.8	347.4	305.4	471.8
65°	433.0	315.0	313.4	277.9	400.7
67.5°	386.2	289.2	287.6	252.1	305.4
70°	336.1	261.7	258.5	224.6	226.2
72.5°	284.3	231.0	227.8	202.0	187.4
75°	232.6	195.5	193.8	176.1	151.8
77.5°	182.6	155.1	158.4	142.2	111.5
80°	130.9	113.1	116.4	101.8	84.0
82.5°	87.2	74.4	77.6	64.6	56.5
85°	48.5	42.0	43.6	34.0	25.9
87.5°	22.6	19.4	19.4	12.9	8.1
90°	21.8	13.9	12.9	8.9	5.0
92.5°	134.7	95.8	87.4	53.6	19.8
95°	331.5	186.7	171.3	109.4	47.7
97.5°	446.5	205.1	191.4	136.9	82.4
100°	488.4	220.4	208.1	158.7	109.2
102.5°	507.6	235.8	224.3	178.2	132.1
105°	521.8	258.6	248.8	209.8	170.8
107.5°	524.5	292.5	283.4	246.9	210.5
110°	520.5	311.3	303.1	270.2	237.4



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CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	520.7	334.1	326.3	294.9	263.6
115°	525.5	368.4	361.2	332.3	303.4
117.5°	535.2	401.7	395.1	368.8	342.6
120°	543.1	421.0	414.8	390.2	365.4
122.5°	554.6	443.9	437.6	412.7	387.8
125°	570.0	473.2	467.5	444.8	422.1
127.5°	585.4	501.5	495.8	472.8	449.8
130°	596.6	520.3	514.2	489.5	464.8
132.5°	605.8	535.8	529.6	504.8	480.1
135°	615.7	553.6	548.0	525.5	503.0
137.5°	630.6	576.5	570.9	548.6	526.3
140°	639.7	591.8	586.7	566.2	545.6
142.5°	647.3	603.3	598.6	579.5	560.6
145°	657.3	620.6	616.5	599.9	583.4
147.5°	671.8	642.5	638.5	622.3	606.3
150°	679.4	653.9	650.3	635.7	621.1
152.5°	684.4	661.4	658.6	647.5	636.5
155°	695.3	677.7	675.7	667.5	659.3
157.5°	706.2	694.1	692.1	684.2	676.3
160°	711.2	701.6	700.1	693.9	687.7
162.5°	716.5	709.5	708.4	703.7	699.1
165°	724.1	720.9	719.9	715.7	711.5
167.5°	730.0	727.4	726.9	724.9	722.9
170°	735.0	734.8	734.3	732.3	730.4
172.5°	735.3	735.3	735.2	734.7	734.3
175°	738.3	739.8	739.8	739.8	739.8
177.5°	738.7	739.8	739.8	739.8	739.8
180°	739.8	739.8	739.8	739.8	739.8



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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	10.41	11.25	11.38	12.24	13.54	13.26	14.10	14.23	15.09	16.39
	3H	10.88	11.64	11.87	12.64	13.96	14.61	15.37	15.60	16.36	17.68
	4H	11.07	11.79	12.07	12.79	14.12	15.06	15.77	16.06	16.77	18.10
	6H	11.19	11.85	12.20	12.86	14.20	15.35	16.01	16.36	17.01	18.35
	8H	11.19	11.82	12.21	12.84	14.18	15.42	16.05	16.44	17.07	18.41
	12H	11.16	11.76	12.18	12.78	14.14	15.47	16.06	16.49	17.08	18.44
4H	2H	11.44	12.16	12.45	13.16	14.49	13.67	14.38	14.67	15.38	16.71
	3H	12.47	13.07	13.48	14.10	15.44	15.18	15.77	16.19	16.80	18.14
	4H	12.75	13.29	13.77	14.31	15.68	15.71	16.25	16.73	17.28	18.64
	6H	12.87	13.34	13.90	14.38	15.75	16.08	16.55	17.11	17.59	18.95
	8H	12.87	13.31	13.91	14.35	15.73	16.19	16.63	17.22	17.66	19.04
	12H	12.84	13.24	13.89	14.29	15.67	16.25	16.64	17.30	17.70	19.08
8H	4H	13.20	13.64	14.23	14.68	16.05	15.83	16.27	16.86	17.31	18.68
	6H	13.46	13.82	14.52	14.90	16.28	16.27	16.63	17.33	17.71	19.09
	8H	13.50	13.82	14.57	14.89	16.28	16.43	16.75	17.49	17.81	19.20
	12H	13.49	13.77	14.56	14.83	16.26	16.53	16.81	17.60	17.87	19.30
12H	4H	13.21	13.60	14.26	14.66	16.04	15.79	16.19	16.85	17.24	18.63
	6H	13.52	13.84	14.59	14.91	16.30	16.27	16.59	17.33	17.65	19.05
	8H	13.59	13.87	14.66	14.93	16.36	16.43	16.71	17.50	17.77	19.21