

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: P935069

Luminaire Tested: SQ4-FA-100U-050D-935-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

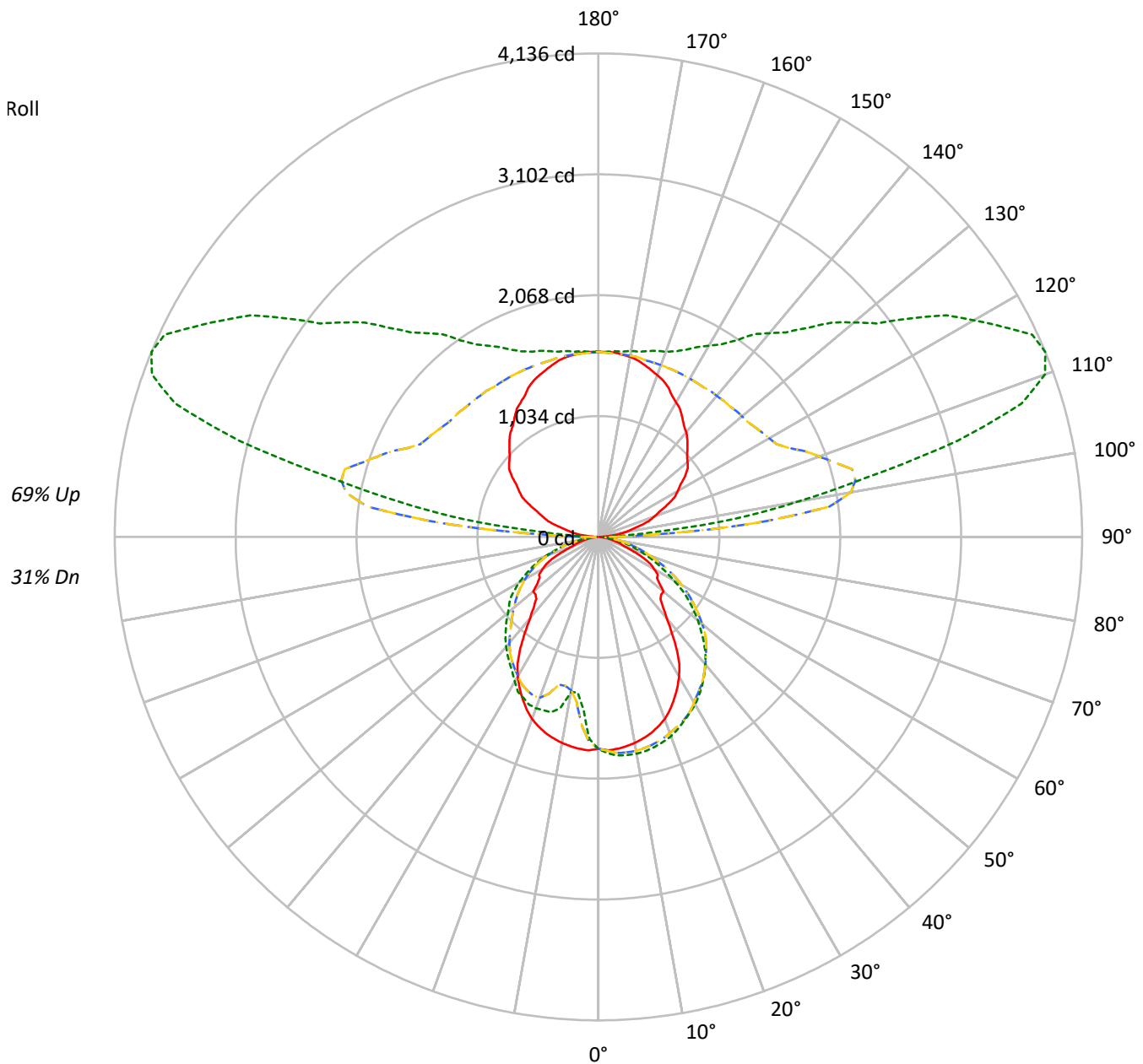
Test Method: LM-79-2019  
Report Number: P935069  
REPORT IS A COMBINATION OF REPORTS P933737 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14973.1 lumens  
Efficiency: N/A  
Efficacy: 121.1 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: Semi-Indirect  
  
Input Watts (W): 123.6  
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



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

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

	0°	90°	180°	270°
0°	5604	5604	5604	5604
5°	5648	5657	5648	4448
10°	5613	5573	5613	3984
15°	5554	5452	5554	4552
20°	5440	5309	5440	4562
25°	5204	5100	5204	4465
30°	4899	4927	4899	4253
35°	4369	4708	4369	4020
40°	3643	4450	3643	3844
45°	3257	4148	3257	3641
50°	3463	3788	3463	3437
55°	3261	3400	3261	3320
60°	3366	2888	3366	3041
65°	3057	2387	3057	2668
70°	2122	1903	2122	2237
75°	1867	1406	1867	1684
80°	1515	930	1515	1012
85°	888	493	888	419

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4989 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.6	1.1
10°-20°	464.4	3.1
20°-30°	717.8	4.8
30°-40°	857.0	5.7
40°-50°	862.0	5.8
50°-60°	750.0	5.0
60°-70°	531.8	3.6
70°-80°	281.3	1.9
80°-90°	76.1	0.5
90°-100°	772.2	5.2
100°-110°	2030.1	13.6
110°-120°	2105.0	14.1
120°-130°	1688.5	11.3
130°-140°	1324.8	8.8
140°-150°	1016.9	6.8
150°-160°	732.3	4.9
160°-170°	448.1	3.0
170°-180°	151.4	1.0
0°-30°	1345.8	9.0
0°-40°	2202.7	14.7
0°-60°	3814.7	25.5
0°-90°	4704.0	31.4
90°-120°	4907.2	32.8
90°-150°	8937.3	59.7
90°-180°	10269.0	68.6
0°-180°	14973.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1812	1812	1812	1812	1812	
5°	1820	1877	1820	1476	1820	173
15°	1738	1860	1738	1553	1738	489
25°	1531	1735	1531	1519	1531	703
35°	1164	1548	1164	1322	1164	720
45°	751	1275	751	1119	751	601
55°	612	941	612	919	612	562
65°	425	567	425	634	425	406
75°	161	269	161	322	161	169
85°	27	69	27	58	27	37
90°	11	40	11	40	11	10
95°	102	467	102	467	102	113
105°	366	3179	366	3179	366	388
115°	650	4093	650	4093	650	642
125°	904	3260	904	3260	904	802
135°	1077	2529	1077	2529	1077	833
145°	1249	2052	1249	2052	1249	783
155°	1412	1767	1412	1767	1412	649
165°	1524	1646	1524	1646	1524	430
175°	1584	1595	1584	1595	1584	150
180°	1584	1584	1584	1584	1584	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9
2.5°	1827.3	1827.3	1837.6	1841.0	1841.0	1835.9	1830.8	1835.9	1851.3	1856.4	1854.7
5°	1820.5	1834.2	1853.0	1856.4	1859.9	1858.2	1854.7	1858.2	1875.3	1878.7	1880.4
7.5°	1806.8	1832.5	1856.4	1861.6	1866.7	1861.6	1859.9	1863.3	1880.4	1883.9	1883.9
10°	1789.6	1825.6	1853.0	1856.4	1861.6	1856.4	1856.4	1863.3	1880.4	1883.9	1885.6
12.5°	1765.6	1815.4	1841.0	1844.5	1851.3	1849.6	1847.9	1854.7	1871.9	1875.3	1875.3
15°	1738.2	1796.4	1820.5	1823.9	1835.9	1832.5	1832.5	1839.3	1858.2	1863.3	1861.6
17.5°	1700.5	1772.5	1799.9	1805.0	1813.7	1811.9	1813.7	1820.5	1837.6	1841.0	1842.8
20°	1657.7	1739.9	1772.5	1777.6	1786.2	1786.2	1786.2	1794.7	1811.9	1818.8	1818.8
22.5°	1599.4	1705.6	1739.9	1743.4	1753.6	1753.6	1757.1	1769.0	1784.4	1786.2	1786.2
25°	1530.8	1667.9	1697.0	1707.3	1717.6	1722.7	1727.9	1734.8	1739.9	1738.2	1739.9
27.5°	1458.8	1619.9	1657.7	1664.5	1678.2	1683.3	1690.2	1691.9	1693.6	1698.7	1695.3
30°	1378.2	1553.0	1609.6	1616.5	1638.7	1642.2	1635.3	1638.7	1647.3	1650.8	1654.2
32.5°	1287.4	1453.6	1559.9	1575.3	1595.9	1585.7	1583.9	1589.1	1602.8	1602.8	1606.2
35°	1163.9	1376.5	1513.7	1527.4	1542.8	1530.8	1537.6	1539.3	1547.9	1553.0	1551.3
37.5°	1028.5	1309.6	1465.6	1475.9	1487.9	1472.5	1482.7	1487.9	1494.7	1491.3	1491.3
40°	908.5	1205.1	1409.0	1415.9	1426.2	1414.2	1424.5	1428.0	1431.4	1428.0	1426.2
42.5°	819.4	1090.2	1349.1	1357.7	1350.8	1359.4	1362.8	1369.7	1364.5	1357.7	1357.7
45°	750.8	1059.4	1284.0	1294.2	1284.0	1297.7	1302.8	1302.8	1287.4	1284.0	1282.2
47.5°	728.5	997.7	1218.8	1218.8	1213.7	1230.8	1239.3	1227.4	1212.0	1206.8	1206.8
50°	726.8	929.1	1129.7	1122.8	1146.8	1167.3	1158.8	1146.8	1134.8	1115.9	1115.9
52.5°	660.0	845.1	1014.8	1040.5	1078.2	1090.2	1076.5	1064.5	1044.0	1035.4	1028.5
55°	612.0	757.7	910.2	961.7	1001.1	1016.5	990.8	978.8	947.9	942.8	939.4
57.5°	601.7	630.8	814.3	879.3	927.4	925.7	910.2	888.0	862.2	857.1	855.4
60°	552.0	456.0	711.4	788.5	838.2	833.1	819.4	798.8	774.8	771.4	768.0
62.5°	500.6	330.8	594.8	682.3	752.5	750.8	738.9	707.9	690.8	682.3	675.4
65°	425.1	277.7	423.4	567.4	668.6	672.0	646.2	624.0	605.1	594.8	593.1
67.5°	324.0	226.3	286.3	473.1	588.0	584.6	552.0	541.7	517.7	512.6	502.3
70°	240.0	150.9	198.9	384.0	509.2	500.6	474.8	462.8	440.6	428.6	421.7
72.5°	198.9	121.7	145.7	298.3	428.6	418.2	396.0	382.3	363.4	353.2	346.3
75°	161.1	128.6	111.4	221.1	348.0	341.1	320.5	306.8	291.4	277.7	279.4
77.5°	118.3	120.0	89.1	162.8	276.0	265.7	253.7	236.6	229.7	216.0	216.0
80°	89.1	94.3	66.9	111.4	198.9	198.9	188.5	176.5	164.5	157.7	157.7
82.5°	60.0	60.0	49.7	70.3	135.4	130.3	123.5	120.0	113.1	109.7	109.7
85°	27.4	34.3	30.8	42.9	73.7	77.1	77.1	73.7	72.0	68.6	70.3
87.5°	8.6	15.4	18.8	24.0	37.7	39.4	41.2	41.2	41.2	42.9	42.9
90°	10.6	19.2	27.6	29.7	46.8	69.4	80.8	71.8	53.8	40.4	40.4
92.5°	42.5	114.8	187.1	205.2	288.5	399.5	455.1	398.8	286.4	202.0	194.0
95°	102.1	234.4	366.7	399.8	709.8	1123.3	1330.0	1186.8	900.5	685.7	661.3
97.5°	176.4	293.2	409.9	439.1	956.1	1645.5	1990.2	1899.7	1718.7	1583.0	1536.8
100°	233.9	339.7	445.5	472.0	1045.7	1810.8	2193.3	2199.9	2213.2	2223.0	2167.9
102.5°	282.8	381.5	480.3	505.0	1086.9	1862.8	2250.7	2366.0	2596.6	2769.5	2722.2
105°	365.8	449.3	533.0	553.9	1117.4	1868.7	2244.3	2502.8	3019.7	3407.4	3382.0
107.5°	450.8	528.8	606.7	626.2	1123.0	1785.5	2116.7	2477.3	3198.3	3739.1	3745.2
110°	508.2	578.6	649.0	666.6	1114.5	1711.8	2010.4	2413.5	3219.5	3824.1	3850.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	564.5	631.7	698.7	715.5	1114.9	1647.4	1913.7	2326.2	3151.2	3769.9	3810.6
115°	649.6	711.5	773.4	788.9	1125.2	1573.6	1797.8	2195.2	2989.9	3586.0	3642.3
117.5°	733.6	789.8	846.0	860.1	1146.1	1527.4	1718.1	2076.7	2794.0	3331.9	3394.4
120°	782.5	835.4	888.4	901.6	1163.2	1511.9	1686.2	2013.9	2669.2	3160.7	3221.5
122.5°	830.4	883.8	937.1	950.5	1187.6	1503.7	1661.7	1956.8	2547.0	2989.6	3049.5
125°	903.7	952.4	1001.0	1013.2	1220.5	1497.0	1635.2	1885.8	2387.1	2763.1	2818.2
127.5°	963.2	1012.3	1061.5	1073.8	1253.5	1493.0	1612.8	1828.1	2258.5	2581.3	2627.8
130°	995.1	1048.0	1101.0	1114.2	1277.6	1495.4	1604.3	1795.9	2179.2	2466.5	2509.6
132.5°	1028.1	1081.0	1133.9	1147.1	1297.0	1496.9	1596.8	1768.3	2111.4	2368.7	2407.2
135°	1077.0	1125.2	1173.4	1185.4	1318.3	1495.5	1584.1	1727.8	2015.0	2230.5	2263.7
137.5°	1126.9	1174.7	1222.4	1234.3	1350.2	1504.7	1582.0	1703.4	1946.3	2128.5	2155.6
140°	1168.4	1212.4	1256.3	1267.3	1369.7	1506.3	1574.5	1679.4	1889.2	2046.6	2072.0
142.5°	1200.3	1240.9	1281.6	1291.7	1385.9	1511.6	1574.5	1666.7	1851.0	1989.2	2011.0
145°	1249.2	1284.6	1320.1	1328.9	1407.2	1511.7	1563.9	1639.2	1790.0	1903.0	1919.6
147.5°	1298.1	1332.6	1367.1	1375.7	1438.4	1522.1	1563.9	1623.2	1741.8	1830.8	1844.5
150°	1330.0	1361.2	1392.3	1400.2	1454.8	1527.6	1563.9	1614.0	1714.1	1789.3	1800.4
152.5°	1362.9	1386.5	1410.2	1416.1	1465.4	1531.0	1563.9	1606.7	1692.2	1756.3	1764.7
155°	1411.8	1429.3	1446.9	1451.2	1488.8	1538.9	1563.9	1597.9	1665.9	1717.0	1722.5
157.5°	1448.0	1465.0	1482.1	1486.3	1512.2	1546.7	1563.9	1590.3	1643.3	1683.0	1686.9
160°	1472.4	1485.7	1498.9	1502.2	1522.8	1550.2	1563.9	1586.6	1631.9	1665.9	1668.1
162.5°	1496.9	1506.8	1516.7	1519.2	1534.1	1554.0	1563.9	1583.0	1621.3	1650.0	1652.1
165°	1523.5	1532.4	1541.4	1543.7	1550.4	1559.4	1563.9	1577.6	1605.0	1625.5	1627.7
167.5°	1547.9	1552.2	1556.4	1557.5	1563.2	1570.7	1574.5	1583.5	1601.5	1615.0	1615.9
170°	1563.9	1568.2	1572.5	1573.5	1573.8	1574.2	1574.5	1583.5	1601.5	1615.0	1615.0
172.5°	1572.4	1573.3	1574.2	1574.5	1574.5	1574.5	1574.5	1581.6	1595.8	1606.4	1605.6
175°	1584.1	1584.1	1584.1	1584.1	1580.9	1576.6	1574.5	1579.0	1588.0	1594.7	1594.7
177.5°	1584.1	1584.1	1584.1	1584.1	1581.7	1578.3	1576.6	1580.2	1587.3	1592.6	1591.6
180°	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9
2.5°	1858.2	1853.0	1858.2	1854.7	1856.4	1851.3	1835.9	1830.8	1835.9	1841.0	1841.0
5°	1880.4	1877.0	1880.4	1880.4	1878.7	1875.3	1858.2	1854.7	1858.2	1859.9	1856.4
7.5°	1887.4	1882.2	1887.4	1883.9	1883.9	1880.4	1863.3	1859.9	1861.6	1866.7	1861.6
10°	1887.4	1882.2	1887.4	1885.6	1883.9	1880.4	1863.3	1856.4	1856.4	1861.6	1856.4
12.5°	1878.7	1875.3	1878.7	1875.3	1875.3	1871.9	1854.7	1847.9	1849.6	1851.3	1844.5
15°	1865.0	1859.9	1865.0	1861.6	1863.3	1858.2	1839.3	1832.5	1832.5	1835.9	1823.9
17.5°	1844.5	1837.6	1844.5	1842.8	1841.0	1837.6	1820.5	1813.7	1811.9	1813.7	1805.0
20°	1820.5	1815.4	1820.5	1818.8	1818.8	1811.9	1794.7	1786.2	1786.2	1786.2	1777.6
22.5°	1782.7	1777.6	1782.7	1786.2	1786.2	1784.4	1769.0	1757.1	1753.6	1753.6	1743.4
25°	1739.9	1734.8	1739.9	1739.9	1738.2	1739.9	1734.8	1727.9	1722.7	1717.6	1707.3
27.5°	1698.7	1695.3	1698.7	1695.3	1698.7	1693.6	1691.9	1690.2	1683.3	1678.2	1664.5
30°	1657.7	1654.2	1657.7	1654.2	1650.8	1647.3	1638.7	1635.3	1642.2	1638.7	1616.5
32.5°	1606.2	1602.8	1606.2	1606.2	1602.8	1602.8	1589.1	1583.9	1585.7	1595.9	1575.3
35°	1553.0	1547.9	1553.0	1551.3	1553.0	1547.9	1539.3	1537.6	1530.8	1542.8	1527.4
37.5°	1491.3	1486.2	1491.3	1491.3	1491.3	1494.7	1487.9	1482.7	1472.5	1487.9	1475.9
40°	1428.0	1421.1	1428.0	1426.2	1428.0	1431.4	1428.0	1424.5	1414.2	1426.2	1415.9
42.5°	1356.0	1354.2	1356.0	1357.7	1357.7	1364.5	1369.7	1362.8	1359.4	1350.8	1357.7
45°	1278.8	1275.4	1278.8	1282.2	1284.0	1287.4	1302.8	1302.8	1297.7	1284.0	1294.2
47.5°	1196.5	1187.9	1196.5	1206.8	1206.8	1212.0	1227.4	1239.3	1230.8	1213.7	1218.8
50°	1109.0	1110.8	1109.0	1115.9	1115.9	1134.8	1146.8	1158.8	1167.3	1146.8	1122.8
52.5°	1023.3	1021.6	1023.3	1028.5	1035.4	1044.0	1064.5	1076.5	1090.2	1078.2	1040.5
55°	937.6	941.1	937.6	939.4	942.8	947.9	978.8	990.8	1016.5	1001.1	961.7
57.5°	851.9	846.8	851.9	855.4	857.1	862.2	888.0	910.2	925.7	927.4	879.3
60°	752.5	745.7	752.5	768.0	771.4	774.8	798.8	819.4	833.1	838.2	788.5
62.5°	665.1	653.1	665.1	675.4	682.3	690.8	707.9	738.9	750.8	752.5	682.3
65°	572.5	567.4	572.5	593.1	594.8	605.1	624.0	646.2	672.0	668.6	567.4
67.5°	488.5	488.5	488.5	502.3	512.6	517.7	541.7	552.0	584.6	588.0	473.1
70°	411.4	409.7	411.4	421.7	428.6	440.6	462.8	474.8	500.6	509.2	384.0
72.5°	337.7	335.9	337.7	346.3	353.2	363.4	382.3	396.0	418.2	428.6	298.3
75°	272.6	269.1	272.6	279.4	277.7	291.4	306.8	320.5	341.1	348.0	221.1
77.5°	209.2	209.2	209.2	216.0	216.0	229.7	236.6	253.7	265.7	276.0	162.8
80°	156.0	154.3	156.0	157.7	157.7	164.5	176.5	188.5	198.9	198.9	111.4
82.5°	109.7	106.2	109.7	109.7	109.7	113.1	120.0	123.5	130.3	135.4	70.3
85°	68.6	68.6	68.6	70.3	68.6	72.0	73.7	77.1	77.1	73.7	42.9
87.5°	44.6	42.9	44.6	42.9	42.9	41.2	41.2	41.2	39.4	37.7	24.0
90°	40.4	40.4	40.4	40.4	40.4	53.8	71.8	80.8	69.4	46.8	29.7
92.5°	161.8	129.7	161.8	194.0	202.0	286.4	398.8	455.1	399.5	288.5	205.2
95°	564.0	466.7	564.0	661.3	685.7	900.5	1186.8	1330.0	1123.3	709.8	399.8
97.5°	1351.5	1166.3	1351.5	1536.8	1583.0	1718.7	1899.7	1990.2	1645.5	956.1	439.1
100°	1947.2	1726.6	1947.2	2167.9	2223.0	2213.2	2199.9	2193.3	1810.8	1045.7	472.0
102.5°	2533.3	2344.3	2533.3	2722.2	2769.5	2596.6	2366.0	2250.7	1862.8	1086.9	505.0
105°	3280.4	3178.8	3280.4	3382.0	3407.4	3019.7	2502.8	2244.3	1868.7	1117.4	553.9
107.5°	3769.8	3794.4	3769.8	3745.2	3739.1	3198.3	2477.3	2116.7	1785.5	1123.0	626.2
110°	3956.4	4062.3	3956.4	3850.6	3824.1	3219.5	2413.5	2010.4	1711.8	1114.5	666.6





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3973.1	4135.7	3973.1	3810.6	3769.9	3151.2	2326.2	1913.7	1647.4	1114.9	715.5
115°	3867.7	4093.1	3867.7	3642.3	3586.0	2989.9	2195.2	1797.8	1573.6	1125.2	788.9
117.5°	3644.3	3894.3	3644.3	3394.4	3331.9	2794.0	2076.7	1718.1	1527.4	1146.1	860.1
120°	3464.3	3707.2	3464.3	3221.5	3160.7	2669.2	2013.9	1686.2	1511.9	1163.2	901.6
122.5°	3289.0	3528.6	3289.0	3049.5	2989.6	2547.0	1956.8	1661.7	1503.7	1187.6	950.5
125°	3038.9	3259.6	3038.9	2818.2	2763.1	2387.1	1885.8	1635.2	1497.0	1220.5	1013.2
127.5°	2814.1	3000.2	2814.1	2627.8	2581.3	2258.5	1828.1	1612.8	1493.0	1253.5	1073.8
130°	2681.5	2853.5	2681.5	2509.6	2466.5	2179.2	1795.9	1604.3	1495.4	1277.6	1114.2
132.5°	2561.3	2715.3	2561.3	2407.2	2368.7	2111.4	1768.3	1596.8	1496.9	1297.0	1147.1
135°	2396.4	2529.2	2396.4	2263.7	2230.5	2015.0	1727.8	1584.1	1495.5	1318.3	1185.4
137.5°	2264.3	2373.0	2264.3	2155.6	2128.5	1946.3	1703.4	1582.0	1504.7	1350.2	1234.3
140°	2173.6	2275.2	2173.6	2072.0	2046.6	1889.2	1679.4	1574.5	1506.3	1369.7	1267.3
142.5°	2098.4	2185.8	2098.4	2011.0	1989.2	1851.0	1666.7	1574.5	1511.6	1385.9	1291.7
145°	1985.8	2051.9	1985.8	1919.6	1903.0	1790.0	1639.2	1563.9	1511.7	1407.2	1328.9
147.5°	1899.3	1954.1	1899.3	1844.5	1830.8	1741.8	1623.2	1563.9	1522.1	1438.4	1375.7
150°	1844.8	1889.2	1844.8	1800.4	1789.3	1714.1	1614.0	1563.9	1527.6	1454.8	1400.2
152.5°	1798.2	1831.8	1798.2	1764.7	1756.3	1692.2	1606.7	1563.9	1531.0	1465.4	1416.1
155°	1744.7	1767.0	1744.7	1722.5	1717.0	1665.9	1597.9	1563.9	1538.9	1488.8	1451.2
157.5°	1702.5	1718.1	1702.5	1686.9	1683.0	1643.3	1590.3	1563.9	1546.7	1512.2	1486.3
160°	1677.2	1686.2	1677.2	1668.1	1665.9	1631.9	1586.6	1563.9	1550.2	1522.8	1502.2
162.5°	1660.6	1669.2	1660.6	1652.1	1650.0	1621.3	1583.0	1563.9	1554.0	1534.1	1519.2
165°	1636.8	1645.7	1636.8	1627.7	1625.5	1605.0	1577.6	1563.9	1559.4	1550.4	1543.7
167.5°	1619.7	1623.4	1619.7	1615.9	1615.0	1601.5	1583.5	1574.5	1570.7	1563.2	1557.5
170°	1615.0	1615.0	1615.0	1615.0	1615.0	1601.5	1583.5	1574.5	1574.2	1573.8	1573.5
172.5°	1602.3	1598.9	1602.3	1605.6	1606.4	1595.8	1581.6	1574.5	1574.5	1574.5	1574.5
175°	1594.7	1594.7	1594.7	1594.7	1594.7	1588.0	1579.0	1574.5	1576.6	1580.9	1584.1
177.5°	1587.9	1584.1	1587.9	1591.6	1592.6	1587.3	1580.2	1576.6	1578.3	1581.7	1584.1
180°	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9
2.5°	1837.6	1827.3	1827.3	1810.2	1803.3	1798.1	1789.6	1763.9	1757.1	1750.2	1760.5
5°	1853.0	1834.2	1820.5	1789.6	1763.9	1753.6	1721.0	1659.4	1618.2	1587.4	1570.2
7.5°	1856.4	1832.5	1806.8	1758.8	1697.0	1669.6	1570.2	1457.1	1426.2	1398.8	1381.6
10°	1853.0	1825.6	1789.6	1717.6	1571.9	1523.9	1424.5	1350.8	1331.9	1326.8	1331.9
12.5°	1841.0	1815.4	1765.6	1645.6	1441.7	1409.0	1350.8	1307.9	1304.5	1313.1	1359.4
15°	1820.5	1796.4	1738.2	1549.6	1369.7	1345.6	1304.5	1289.1	1307.9	1367.9	1506.8
17.5°	1799.9	1772.5	1700.5	1455.4	1314.8	1297.7	1268.5	1299.4	1405.6	1486.2	1532.5
20°	1772.5	1739.9	1657.7	1386.8	1275.4	1259.9	1246.2	1385.1	1465.6	1494.7	1520.5
22.5°	1739.9	1705.6	1599.4	1338.7	1234.2	1222.2	1230.8	1433.1	1465.6	1486.2	1508.5
25°	1697.0	1667.9	1530.8	1301.1	1201.7	1187.9	1220.5	1428.0	1446.8	1451.9	1496.5
27.5°	1657.7	1619.9	1458.8	1266.8	1162.2	1157.1	1229.1	1405.6	1419.3	1424.5	1472.5
30°	1609.6	1553.0	1378.2	1230.8	1121.1	1119.4	1230.8	1378.2	1374.8	1388.5	1436.5
32.5°	1559.9	1453.6	1287.4	1186.2	1081.6	1079.9	1218.8	1337.0	1333.6	1352.5	1388.5
35°	1513.7	1376.5	1163.9	1134.8	1031.9	1033.6	1189.6	1289.1	1290.8	1307.9	1330.2
37.5°	1465.6	1309.6	1028.5	1078.2	984.0	984.0	1150.2	1244.5	1241.1	1246.2	1277.1
40°	1409.0	1205.1	908.5	1004.5	939.4	934.2	1102.2	1196.5	1184.5	1182.8	1225.6
42.5°	1349.1	1090.2	819.4	906.8	888.0	881.1	1044.0	1138.2	1115.9	1121.1	1175.9
45°	1284.0	1059.4	750.8	766.2	834.8	829.7	980.5	1071.4	1056.0	1069.7	1126.3
47.5°	1218.8	997.7	728.5	635.9	778.2	776.5	910.2	1006.2	997.7	1011.4	1071.4
50°	1129.7	929.1	726.8	545.1	714.8	721.6	826.3	942.8	942.8	954.8	1018.2
52.5°	1014.8	845.1	660.0	493.6	641.1	661.7	752.5	888.0	891.4	903.4	959.9
55°	910.2	757.7	612.0	454.3	553.7	598.3	680.5	831.4	838.2	850.2	901.7
57.5°	814.3	630.8	601.7	407.9	473.1	516.0	617.1	776.5	779.9	790.2	840.0
60°	711.4	456.0	552.0	358.3	402.8	435.4	558.8	711.4	723.3	730.2	773.1
62.5°	594.8	330.8	500.6	324.0	368.6	375.4	510.9	649.6	665.1	670.3	696.0
65°	423.4	277.7	425.1	294.9	332.5	334.2	459.4	586.3	600.0	608.5	627.4
67.5°	286.3	226.3	324.0	267.4	305.1	306.8	409.7	512.6	531.4	538.3	550.2
70°	198.9	150.9	240.0	238.3	274.3	277.7	356.6	445.7	462.8	468.0	474.8
72.5°	145.7	121.7	198.9	214.3	241.7	245.1	301.7	370.3	387.4	392.5	396.0
75°	111.4	128.6	161.1	186.8	205.7	207.4	246.8	301.7	313.7	317.1	318.8
77.5°	89.1	120.0	118.3	150.9	168.0	164.5	193.7	233.1	243.4	243.4	243.4
80°	66.9	94.3	89.1	108.0	123.5	120.0	138.9	166.3	169.7	173.1	171.4
82.5°	49.7	60.0	60.0	68.6	82.3	78.9	92.5	108.0	108.0	108.0	111.4
85°	30.8	34.3	27.4	36.0	46.3	44.6	51.5	58.3	60.0	60.0	56.6
87.5°	18.8	15.4	8.6	13.7	20.5	20.5	24.0	25.7	24.0	24.0	24.0
90°	27.6	19.2	10.6	19.2	27.6	29.7	46.8	69.4	80.8	71.8	53.8
92.5°	187.1	114.8	42.5	114.8	187.1	205.2	288.5	399.5	455.1	398.8	286.4
95°	366.7	234.4	102.1	234.4	366.7	399.8	709.8	1123.3	1330.0	1186.8	900.5
97.5°	409.9	293.2	176.4	293.2	409.9	439.1	956.1	1645.5	1990.2	1899.7	1718.7
100°	445.5	339.7	233.9	339.7	445.5	472.0	1045.7	1810.8	2193.3	2199.9	2213.2
102.5°	480.3	381.5	282.8	381.5	480.3	505.0	1086.9	1862.8	2250.7	2366.0	2596.6
105°	533.0	449.3	365.8	449.3	533.0	553.9	1117.4	1868.7	2244.3	2502.8	3019.7
107.5°	606.7	528.8	450.8	528.8	606.7	626.2	1123.0	1785.5	2116.7	2477.3	3198.3
110°	649.0	578.6	508.2	578.6	649.0	666.6	1114.5	1711.8	2010.4	2413.5	3219.5



TEST NUMBER: P935069

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	698.7	631.7	564.5	631.7	698.7	715.5	1114.9	1647.4	1913.7	2326.2	3151.2
115°	773.4	711.5	649.6	711.5	773.4	788.9	1125.2	1573.6	1797.8	2195.2	2989.9
117.5°	846.0	789.8	733.6	789.8	846.0	860.1	1146.1	1527.4	1718.1	2076.7	2794.0
120°	888.4	835.4	782.5	835.4	888.4	901.6	1163.2	1511.9	1686.2	2013.9	2669.2
122.5°	937.1	883.8	830.4	883.8	937.1	950.5	1187.6	1503.7	1661.7	1956.8	2547.0
125°	1001.0	952.4	903.7	952.4	1001.0	1013.2	1220.5	1497.0	1635.2	1885.8	2387.1
127.5°	1061.5	1012.3	963.2	1012.3	1061.5	1073.8	1253.5	1493.0	1612.8	1828.1	2258.5
130°	1101.0	1048.0	995.1	1048.0	1101.0	1114.2	1277.6	1495.4	1604.3	1795.9	2179.2
132.5°	1133.9	1081.0	1028.1	1081.0	1133.9	1147.1	1297.0	1496.9	1596.8	1768.3	2111.4
135°	1173.4	1125.2	1077.0	1125.2	1173.4	1185.4	1318.3	1495.5	1584.1	1727.8	2015.0
137.5°	1222.4	1174.7	1126.9	1174.7	1222.4	1234.3	1350.2	1504.7	1582.0	1703.4	1946.3
140°	1256.3	1212.4	1168.4	1212.4	1256.3	1267.3	1369.7	1506.3	1574.5	1679.4	1889.2
142.5°	1281.6	1240.9	1200.3	1240.9	1281.6	1291.7	1385.9	1511.6	1574.5	1666.7	1851.0
145°	1320.1	1284.6	1249.2	1284.6	1320.1	1328.9	1407.2	1511.7	1563.9	1639.2	1790.0
147.5°	1367.1	1332.6	1298.1	1332.6	1367.1	1375.7	1438.4	1522.1	1563.9	1623.2	1741.8
150°	1392.3	1361.2	1330.0	1361.2	1392.3	1400.2	1454.8	1527.6	1563.9	1614.0	1714.1
152.5°	1410.2	1386.5	1362.9	1386.5	1410.2	1416.1	1465.4	1531.0	1563.9	1606.7	1692.2
155°	1446.9	1429.3	1411.8	1429.3	1446.9	1451.2	1488.8	1538.9	1563.9	1597.9	1665.9
157.5°	1482.1	1465.0	1448.0	1465.0	1482.1	1486.3	1512.2	1546.7	1563.9	1590.3	1643.3
160°	1498.9	1485.7	1472.4	1485.7	1498.9	1502.2	1522.8	1550.2	1563.9	1586.6	1631.9
162.5°	1516.7	1506.8	1496.9	1506.8	1516.7	1519.2	1534.1	1554.0	1563.9	1583.0	1621.3
165°	1541.4	1532.4	1523.5	1532.4	1541.4	1543.7	1550.4	1559.4	1563.9	1577.6	1605.0
167.5°	1556.4	1552.2	1547.9	1552.2	1556.4	1557.5	1563.2	1570.7	1574.5	1583.5	1601.5
170°	1572.5	1568.2	1563.9	1568.2	1572.5	1573.5	1573.8	1574.2	1574.5	1583.5	1601.5
172.5°	1574.2	1573.3	1572.4	1573.3	1574.2	1574.5	1574.5	1574.5	1574.5	1581.6	1595.8
175°	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1580.9	1576.6	1574.5	1579.0	1588.0
177.5°	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1581.7	1578.3	1576.6	1580.2	1587.3
180°	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1



TEST NUMBER: P935069

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9
2.5°	1748.5	1743.4	1750.2	1731.3	1750.2	1743.4	1748.5	1760.5	1750.2	1757.1	1763.9
5°	1534.2	1525.6	1498.2	1475.9	1498.2	1525.6	1534.2	1570.2	1587.4	1618.2	1659.4
7.5°	1371.4	1364.5	1357.7	1343.9	1357.7	1364.5	1371.4	1381.6	1398.8	1426.2	1457.1
10°	1335.3	1337.0	1347.4	1345.6	1347.4	1337.0	1335.3	1331.9	1326.8	1331.9	1350.8
12.5°	1428.0	1443.4	1499.9	1496.5	1499.9	1443.4	1428.0	1359.4	1313.1	1304.5	1307.9
15°	1534.2	1539.3	1551.3	1553.0	1551.3	1539.3	1534.2	1506.8	1367.9	1307.9	1289.1
17.5°	1544.5	1546.2	1554.7	1554.7	1554.7	1546.2	1544.5	1532.5	1486.2	1405.6	1299.4
20°	1535.9	1539.3	1556.5	1559.9	1556.5	1539.3	1535.9	1520.5	1494.7	1465.6	1385.1
22.5°	1532.5	1539.3	1553.0	1551.3	1553.0	1539.3	1532.5	1508.5	1486.2	1465.6	1433.1
25°	1515.4	1515.4	1517.1	1518.8	1517.1	1515.4	1515.4	1496.5	1451.9	1446.8	1428.0
27.5°	1479.3	1482.7	1493.0	1491.3	1493.0	1482.7	1479.3	1472.5	1424.5	1419.3	1405.6
30°	1446.8	1443.4	1434.8	1428.0	1434.8	1443.4	1446.8	1436.5	1388.5	1374.8	1378.2
32.5°	1391.9	1383.3	1374.8	1369.7	1374.8	1383.3	1391.9	1388.5	1352.5	1333.6	1337.0
35°	1326.8	1328.5	1326.8	1321.6	1326.8	1328.5	1326.8	1330.2	1307.9	1290.8	1289.1
37.5°	1280.5	1284.0	1282.2	1275.4	1282.2	1284.0	1280.5	1277.1	1246.2	1241.1	1244.5
40°	1232.5	1234.2	1232.5	1227.4	1232.5	1234.2	1232.5	1225.6	1182.8	1184.5	1196.5
42.5°	1186.2	1184.5	1179.3	1175.9	1179.3	1184.5	1186.2	1175.9	1121.1	1115.9	1138.2
45°	1133.1	1134.8	1124.5	1119.4	1124.5	1134.8	1133.1	1126.3	1069.7	1056.0	1071.4
47.5°	1079.9	1079.9	1071.4	1066.2	1071.4	1079.9	1079.9	1071.4	1011.4	997.7	1006.2
50°	1023.3	1021.6	1009.6	1007.9	1009.6	1021.6	1023.3	1018.2	954.8	942.8	942.8
52.5°	958.2	958.2	959.9	963.4	959.9	958.2	958.2	959.9	903.4	891.4	888.0
55°	901.7	903.4	915.4	918.8	915.4	903.4	901.7	901.7	850.2	838.2	831.4
57.5°	843.4	843.4	851.9	851.9	851.9	843.4	843.4	840.0	790.2	779.9	776.5
60°	776.5	779.9	786.8	785.1	786.8	779.9	776.5	773.1	730.2	723.3	711.4
62.5°	706.2	709.7	711.4	707.9	711.4	709.7	706.2	696.0	670.3	665.1	649.6
65°	632.5	635.9	637.6	634.2	637.6	635.9	632.5	627.4	608.5	600.0	586.3
67.5°	557.1	555.4	553.7	560.5	553.7	555.4	557.1	550.2	538.3	531.4	512.6
70°	479.9	479.9	478.2	481.7	478.2	479.9	479.9	474.8	468.0	462.8	445.7
72.5°	397.7	396.0	402.8	397.7	402.8	396.0	397.7	396.0	392.5	387.4	370.3
75°	317.1	320.5	317.1	322.2	317.1	320.5	317.1	318.8	317.1	313.7	301.7
77.5°	241.7	245.1	241.7	241.7	241.7	245.1	241.7	243.4	243.4	243.4	233.1
80°	171.4	169.7	169.7	168.0	169.7	169.7	171.4	171.4	173.1	169.7	166.3
82.5°	109.7	108.0	108.0	111.4	108.0	108.0	109.7	111.4	108.0	108.0	108.0
85°	60.0	61.7	58.3	58.3	58.3	61.7	60.0	56.6	60.0	60.0	58.3
87.5°	22.3	20.5	20.5	20.5	20.5	20.5	22.3	24.0	24.0	24.0	25.7
90°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	53.8	71.8	80.8	69.4
92.5°	202.0	194.0	161.8	129.7	161.8	194.0	202.0	286.4	398.8	455.1	399.5
95°	685.7	661.3	564.0	466.7	564.0	661.3	685.7	900.5	1186.8	1330.0	1123.3
97.5°	1583.0	1536.8	1351.5	1166.3	1351.5	1536.8	1583.0	1718.7	1899.7	1990.2	1645.5
100°	2223.0	2167.9	1947.2	1726.6	1947.2	2167.9	2223.0	2213.2	2199.9	2193.3	1810.8
102.5°	2769.5	2722.2	2533.3	2344.3	2533.3	2722.2	2769.5	2596.6	2366.0	2250.7	1862.8
105°	3407.4	3382.0	3280.4	3178.8	3280.4	3382.0	3407.4	3019.7	2502.8	2244.3	1868.7
107.5°	3739.1	3745.2	3769.8	3794.4	3769.8	3745.2	3739.1	3198.3	2477.3	2116.7	1785.5
110°	3824.1	3850.6	3956.4	4062.3	3956.4	3850.6	3824.1	3219.5	2413.5	2010.4	1711.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3769.9	3810.6	3973.1	4135.7	3973.1	3810.6	3769.9	3151.2	2326.2	1913.7	1647.4
115°	3586.0	3642.3	3867.7	4093.1	3867.7	3642.3	3586.0	2989.9	2195.2	1797.8	1573.6
117.5°	3331.9	3394.4	3644.3	3894.3	3644.3	3394.4	3331.9	2794.0	2076.7	1718.1	1527.4
120°	3160.7	3221.5	3464.3	3707.2	3464.3	3221.5	3160.7	2669.2	2013.9	1686.2	1511.9
122.5°	2989.6	3049.5	3289.0	3528.6	3289.0	3049.5	2989.6	2547.0	1956.8	1661.7	1503.7
125°	2763.1	2818.2	3038.9	3259.6	3038.9	2818.2	2763.1	2387.1	1885.8	1635.2	1497.0
127.5°	2581.3	2627.8	2814.1	3000.2	2814.1	2627.8	2581.3	2258.5	1828.1	1612.8	1493.0
130°	2466.5	2509.6	2681.5	2853.5	2681.5	2509.6	2466.5	2179.2	1795.9	1604.3	1495.4
132.5°	2368.7	2407.2	2561.3	2715.3	2561.3	2407.2	2368.7	2111.4	1768.3	1596.8	1496.9
135°	2230.5	2263.7	2396.4	2529.2	2396.4	2263.7	2230.5	2015.0	1727.8	1584.1	1495.5
137.5°	2128.5	2155.6	2264.3	2373.0	2264.3	2155.6	2128.5	1946.3	1703.4	1582.0	1504.7
140°	2046.6	2072.0	2173.6	2275.2	2173.6	2072.0	2046.6	1889.2	1679.4	1574.5	1506.3
142.5°	1989.2	2011.0	2098.4	2185.8	2098.4	2011.0	1989.2	1851.0	1666.7	1574.5	1511.6
145°	1903.0	1919.6	1985.8	2051.9	1985.8	1919.6	1903.0	1790.0	1639.2	1563.9	1511.7
147.5°	1830.8	1844.5	1899.3	1954.1	1899.3	1844.5	1830.8	1741.8	1623.2	1563.9	1522.1
150°	1789.3	1800.4	1844.8	1889.2	1844.8	1800.4	1789.3	1714.1	1614.0	1563.9	1527.6
152.5°	1756.3	1764.7	1798.2	1831.8	1798.2	1764.7	1756.3	1692.2	1606.7	1563.9	1531.0
155°	1717.0	1722.5	1744.7	1767.0	1744.7	1722.5	1717.0	1665.9	1597.9	1563.9	1538.9
157.5°	1683.0	1686.9	1702.5	1718.1	1702.5	1686.9	1683.0	1643.3	1590.3	1563.9	1546.7
160°	1665.9	1668.1	1677.2	1686.2	1677.2	1668.1	1665.9	1631.9	1586.6	1563.9	1550.2
162.5°	1650.0	1652.1	1660.6	1669.2	1660.6	1652.1	1650.0	1621.3	1583.0	1563.9	1554.0
165°	1625.5	1627.7	1636.8	1645.7	1636.8	1627.7	1625.5	1605.0	1577.6	1563.9	1559.4
167.5°	1615.0	1615.9	1619.7	1623.4	1619.7	1615.9	1615.0	1601.5	1583.5	1574.5	1570.7
170°	1615.0	1615.0	1615.0	1615.0	1615.0	1615.0	1615.0	1601.5	1583.5	1574.5	1574.2
172.5°	1606.4	1605.6	1602.3	1598.9	1602.3	1605.6	1606.4	1595.8	1581.6	1574.5	1574.5
175°	1594.7	1594.7	1594.7	1594.7	1594.7	1594.7	1594.7	1588.0	1579.0	1574.5	1576.6
177.5°	1592.6	1591.6	1587.9	1584.1	1587.9	1591.6	1592.6	1587.3	1580.2	1576.6	1578.3
180°	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1811.9	1811.9	1811.9	1811.9	1811.9
2.5°	1789.6	1798.1	1803.3	1810.2	1827.3
5°	1721.0	1753.6	1763.9	1789.6	1820.5
7.5°	1570.2	1669.6	1697.0	1758.8	1806.8
10°	1424.5	1523.9	1571.9	1717.6	1789.6
12.5°	1350.8	1409.0	1441.7	1645.6	1765.6
15°	1304.5	1345.6	1369.7	1549.6	1738.2
17.5°	1268.5	1297.7	1314.8	1455.4	1700.5
20°	1246.2	1259.9	1275.4	1386.8	1657.7
22.5°	1230.8	1222.2	1234.2	1338.7	1599.4
25°	1220.5	1187.9	1201.7	1301.1	1530.8
27.5°	1229.1	1157.1	1162.2	1266.8	1458.8
30°	1230.8	1119.4	1121.1	1230.8	1378.2
32.5°	1218.8	1079.9	1081.6	1186.2	1287.4
35°	1189.6	1033.6	1031.9	1134.8	1163.9
37.5°	1150.2	984.0	984.0	1078.2	1028.5
40°	1102.2	934.2	939.4	1004.5	908.5
42.5°	1044.0	881.1	888.0	906.8	819.4
45°	980.5	829.7	834.8	766.2	750.8
47.5°	910.2	776.5	778.2	635.9	728.5
50°	826.3	721.6	714.8	545.1	726.8
52.5°	752.5	661.7	641.1	493.6	660.0
55°	680.5	598.3	553.7	454.3	612.0
57.5°	617.1	516.0	473.1	407.9	601.7
60°	558.8	435.4	402.8	358.3	552.0
62.5°	510.9	375.4	368.6	324.0	500.6
65°	459.4	334.2	332.5	294.9	425.1
67.5°	409.7	306.8	305.1	267.4	324.0
70°	356.6	277.7	274.3	238.3	240.0
72.5°	301.7	245.1	241.7	214.3	198.9
75°	246.8	207.4	205.7	186.8	161.1
77.5°	193.7	164.5	168.0	150.9	118.3
80°	138.9	120.0	123.5	108.0	89.1
82.5°	92.5	78.9	82.3	68.6	60.0
85°	51.5	44.6	46.3	36.0	27.4
87.5°	24.0	20.5	20.5	13.7	8.6
90°	46.8	29.7	27.6	19.2	10.6
92.5°	288.5	205.2	187.1	114.8	42.5
95°	709.8	399.8	366.7	234.4	102.1
97.5°	956.1	439.1	409.9	293.2	176.4
100°	1045.7	472.0	445.5	339.7	233.9
102.5°	1086.9	505.0	480.3	381.5	282.8
105°	1117.4	553.9	533.0	449.3	365.8
107.5°	1123.0	626.2	606.7	528.8	450.8
110°	1114.5	666.6	649.0	578.6	508.2



TEST NUMBER: P935069

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1114.9	715.5	698.7	631.7	564.5
115°	1125.2	788.9	773.4	711.5	649.6
117.5°	1146.1	860.1	846.0	789.8	733.6
120°	1163.2	901.6	888.4	835.4	782.5
122.5°	1187.6	950.5	937.1	883.8	830.4
125°	1220.5	1013.2	1001.0	952.4	903.7
127.5°	1253.5	1073.8	1061.5	1012.3	963.2
130°	1277.6	1114.2	1101.0	1048.0	995.1
132.5°	1297.0	1147.1	1133.9	1081.0	1028.1
135°	1318.3	1185.4	1173.4	1125.2	1077.0
137.5°	1350.2	1234.3	1222.4	1174.7	1126.9
140°	1369.7	1267.3	1256.3	1212.4	1168.4
142.5°	1385.9	1291.7	1281.6	1240.9	1200.3
145°	1407.2	1328.9	1320.1	1284.6	1249.2
147.5°	1438.4	1375.7	1367.1	1332.6	1298.1
150°	1454.8	1400.2	1392.3	1361.2	1330.0
152.5°	1465.4	1416.1	1410.2	1386.5	1362.9
155°	1488.8	1451.2	1446.9	1429.3	1411.8
157.5°	1512.2	1486.3	1482.1	1465.0	1448.0
160°	1522.8	1502.2	1498.9	1485.7	1472.4
162.5°	1534.1	1519.2	1516.7	1506.8	1496.9
165°	1550.4	1543.7	1541.4	1532.4	1523.5
167.5°	1563.2	1557.5	1556.4	1552.2	1547.9
170°	1573.8	1573.5	1572.5	1568.2	1563.9
172.5°	1574.5	1574.5	1574.2	1573.3	1572.4
175°	1580.9	1584.1	1584.1	1584.1	1584.1
177.5°	1581.7	1584.1	1584.1	1584.1	1584.1
180°	1584.1	1584.1	1584.1	1584.1	1584.1



TEST NUMBER: P935069  
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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	8.78	9.49	9.88	10.59	12.11	11.63	12.34	12.73	13.44	14.96
	3H	9.24	9.88	10.35	10.99	12.52	12.97	13.61	14.08	14.72	16.25
	4H	9.43	10.03	10.55	11.14	12.68	13.41	14.02	14.53	15.13	16.66
	6H	9.54	10.10	10.67	11.21	12.76	13.69	14.25	14.82	15.36	16.91
	8H	9.53	10.07	10.67	11.19	12.73	13.77	14.30	14.90	15.42	16.97
	12H	9.50	10.01	10.64	11.13	12.69	13.80	14.31	14.94	15.43	16.99
4H	2H	9.80	10.40	10.92	11.51	13.05	12.02	12.63	13.15	13.73	15.27
	3H	10.81	11.32	11.94	12.45	14.00	13.52	14.02	14.65	15.16	16.71
	4H	11.08	11.55	12.22	12.67	14.24	14.04	14.51	15.18	15.63	17.20
	6H	11.20	11.59	12.34	12.74	14.30	14.40	14.80	15.55	15.95	17.51
	8H	11.20	11.57	12.34	12.71	14.29	14.51	14.88	15.65	16.02	17.60
	12H	11.16	11.50	12.32	12.65	14.23	14.56	14.90	15.72	16.05	17.63
8H	4H	11.52	11.90	12.67	13.03	14.61	14.15	14.53	15.30	15.66	17.24
	6H	11.78	12.09	12.94	13.27	14.84	14.59	14.90	15.75	16.08	17.65
	8H	11.82	12.09	12.99	13.25	14.84	14.74	15.01	15.91	16.17	17.77
	12H	11.80	12.03	12.97	13.19	14.82	14.84	15.08	16.01	16.23	17.86
12H	4H	11.52	11.86	12.68	13.01	14.59	14.11	14.45	15.27	15.60	17.18
	6H	11.84	12.11	13.01	13.27	14.86	14.59	14.85	15.76	16.01	17.61
	8H	11.90	12.14	13.07	13.29	14.92	14.74	14.98	15.92	16.14	17.76