

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: P934655

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

**Test Information**

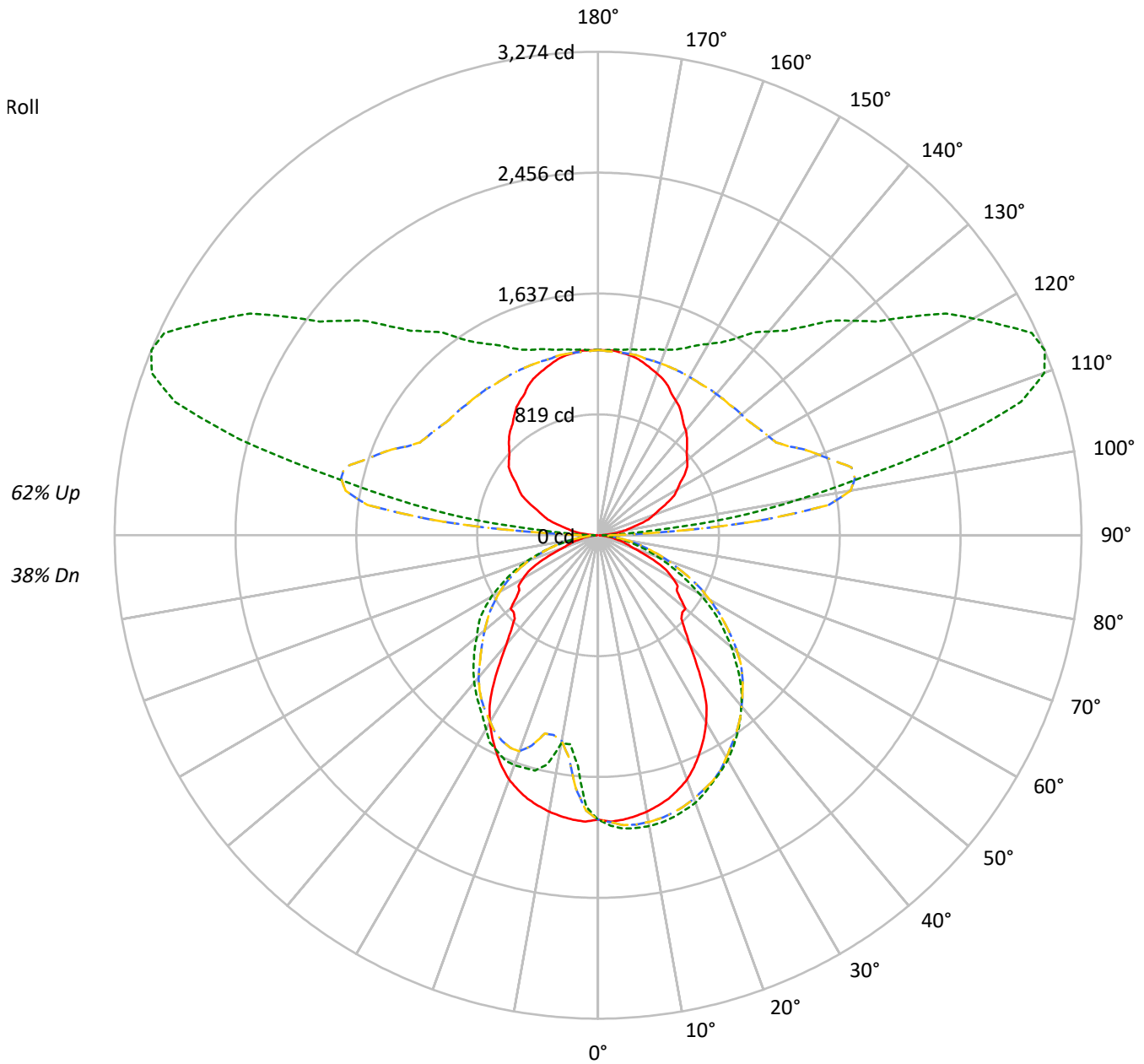
Test Method: LM-79-2019  
Report Number: P934655  
REPORT IS A COMBINATION OF REPORTS P933705 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13126.7 lumens  
Efficiency: N/A  
Efficacy: 127.2 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): 103.2  
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



— 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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

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

	0°	90°	180°	270°
0°	5954	5954	5954	5954
5°	6001	6010	6001	4726
10°	5963	5920	5963	4233
15°	5900	5792	5900	4836
20°	5779	5640	5779	4847
25°	5529	5419	5529	4744
30°	5204	5235	5204	4519
35°	4642	5002	4642	4271
40°	3870	4728	3870	4084
45°	3460	4407	3460	3868
50°	3679	4025	3679	3652
55°	3465	3613	3465	3527
60°	3577	3068	3577	3230
65°	3248	2536	3248	2835
70°	2254	2021	2254	2377
75°	1984	1494	1984	1789
80°	1611	988	1611	1076
85°	943	524	943	445

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5300 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.8	1.3
10°-20°	493.4	3.8
20°-30°	762.6	5.8
30°-40°	910.4	6.9
40°-50°	915.8	7.0
50°-60°	796.8	6.1
60°-70°	565.0	4.3
70°-80°	298.9	2.3
80°-90°	79.2	0.6
90°-100°	611.4	4.7
100°-110°	1607.4	12.2
110°-120°	1666.7	12.7
120°-130°	1336.9	10.2
130°-140°	1049.0	8.0
140°-150°	805.1	6.1
150°-160°	579.8	4.4
160°-170°	354.8	2.7
170°-180°	119.9	0.9
0°-30°	1429.7	10.9
0°-40°	2340.2	17.8
0°-60°	4052.8	30.9
0°-90°	4995.8	38.1
90°-120°	3885.4	29.6
90°-150°	7076.4	53.9
90°-180°	8131.0	61.9
0°-180°	13126.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1925	1925	1925	1925	1925	
5°	1934	1994	1934	1568	1934	183
15°	1847	1976	1847	1650	1847	520
25°	1626	1843	1626	1614	1626	747
35°	1236	1644	1236	1404	1236	765
45°	798	1355	798	1189	798	639
55°	650	1000	650	976	650	597
65°	452	603	452	674	452	432
75°	171	286	171	342	171	180
85°	29	73	29	62	29	39
90°	8	32	8	32	8	8
95°	81	370	81	370	81	90
105°	290	2517	290	2517	290	307
115°	514	3241	514	3241	514	508
125°	716	2581	716	2581	716	635
135°	853	2003	853	2003	853	660
145°	989	1625	989	1625	989	620
155°	1118	1399	1118	1399	1118	514
165°	1206	1303	1206	1303	1206	340
175°	1254	1263	1254	1263	1254	119
180°	1254	1254	1254	1254	1254	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1941.3	1941.3	1952.3	1955.9	1955.9	1950.4	1945.0	1950.4	1966.8	1972.3	1970.4
5°	1934.1	1948.6	1968.6	1972.3	1976.0	1974.2	1970.4	1974.2	1992.3	1996.0	1997.8
7.5°	1919.5	1946.8	1972.3	1977.8	1983.2	1977.8	1976.0	1979.6	1997.8	2001.4	2001.4
10°	1901.3	1939.5	1968.6	1972.3	1977.8	1972.3	1972.3	1979.6	1997.8	2001.4	2003.3
12.5°	1875.8	1928.6	1955.9	1959.6	1966.8	1965.0	1963.2	1970.4	1988.7	1992.3	1992.3
15°	1846.6	1908.5	1934.1	1937.7	1950.4	1946.8	1946.8	1954.1	1974.2	1979.6	1977.8
17.5°	1806.6	1883.1	1912.2	1917.7	1926.8	1924.9	1926.8	1934.1	1952.3	1955.9	1957.8
20°	1761.1	1848.4	1883.1	1888.5	1897.7	1897.7	1897.7	1906.7	1924.9	1932.2	1932.2
22.5°	1699.2	1812.0	1848.4	1852.1	1863.0	1863.0	1866.7	1879.4	1895.8	1897.7	1897.7
25°	1626.3	1771.9	1802.9	1813.9	1824.8	1830.2	1835.8	1843.0	1848.4	1846.6	1848.4
27.5°	1549.8	1721.0	1761.1	1768.3	1782.9	1788.3	1795.7	1797.5	1799.3	1804.7	1801.1
30°	1464.2	1649.9	1710.0	1717.4	1741.0	1744.7	1737.4	1741.0	1750.1	1753.7	1757.4
32.5°	1367.7	1544.3	1657.3	1673.6	1695.5	1684.6	1682.7	1688.2	1702.8	1702.8	1706.4
35°	1236.5	1462.4	1608.1	1622.7	1639.1	1626.3	1633.5	1635.4	1644.5	1649.9	1648.1
37.5°	1092.7	1391.3	1557.1	1568.0	1580.8	1564.4	1575.3	1580.8	1588.0	1584.4	1584.4
40°	965.2	1280.3	1497.0	1504.3	1515.1	1502.5	1513.3	1517.0	1520.7	1517.0	1515.1
42.5°	870.5	1158.2	1433.2	1442.4	1435.0	1444.2	1447.8	1455.1	1449.6	1442.4	1442.4
45°	797.6	1125.5	1364.1	1374.9	1364.1	1378.7	1384.1	1384.1	1367.7	1364.1	1362.2
47.5°	774.0	1059.9	1294.8	1294.8	1289.4	1307.6	1316.6	1304.0	1287.6	1282.1	1282.1
50°	772.2	987.1	1200.2	1192.8	1218.3	1240.2	1231.1	1218.3	1205.6	1185.6	1185.6
52.5°	701.1	897.8	1078.1	1105.5	1145.5	1158.2	1143.7	1130.9	1109.1	1100.0	1092.7
55°	650.2	805.0	967.0	1021.7	1063.6	1079.9	1052.6	1039.8	1007.1	1001.7	998.0
57.5°	639.2	670.2	865.1	934.2	985.3	983.5	967.0	943.4	916.0	910.6	908.8
60°	586.5	484.4	755.8	837.7	890.5	885.1	870.5	848.7	823.2	819.5	815.9
62.5°	531.8	351.5	631.9	724.9	799.4	797.6	785.0	752.1	733.9	724.9	717.5
65°	451.7	295.0	449.9	602.8	710.3	713.9	686.6	662.9	642.8	631.9	630.1
67.5°	344.2	240.4	304.1	502.6	624.7	621.0	586.5	575.5	550.0	544.5	533.6
70°	255.0	160.3	211.3	408.0	540.9	531.8	504.4	491.7	468.1	455.3	448.0
72.5°	211.3	129.3	154.8	316.9	455.3	444.3	420.7	406.1	386.1	375.2	367.9
75°	171.2	136.6	118.4	234.9	369.7	362.4	340.5	325.9	309.6	295.0	296.8
77.5°	125.6	127.4	94.7	173.0	293.2	282.3	269.6	251.4	244.0	229.5	229.5
80°	94.7	100.2	71.1	118.4	211.3	211.3	200.3	187.5	174.8	167.5	167.5
82.5°	63.7	63.7	52.8	74.7	143.8	138.4	131.2	127.4	120.2	116.6	116.6
85°	29.1	36.4	32.8	45.5	78.3	81.9	81.9	78.3	76.5	72.9	74.7
87.5°	9.1	16.4	20.0	25.5	40.1	41.9	43.7	43.7	43.7	45.5	45.5
90°	8.4	15.1	21.8	23.5	37.0	55.0	64.0	56.8	42.6	32.0	32.0
92.5°	33.7	90.9	148.2	162.5	228.4	316.3	360.3	315.7	226.7	159.9	153.6
95°	80.8	185.6	290.4	316.5	562.0	889.4	1053.1	939.7	713.0	542.9	523.6
97.5°	139.8	232.2	324.6	347.7	757.1	1302.9	1575.8	1504.1	1360.8	1253.4	1216.7
100°	185.2	269.0	352.8	373.7	828.0	1433.7	1736.6	1741.8	1752.3	1760.2	1716.5
102.5°	223.9	302.1	380.3	399.8	860.5	1474.9	1782.1	1873.3	2055.9	2192.8	2155.5
105°	289.6	355.8	422.0	438.6	884.7	1479.6	1777.0	1981.7	2391.0	2697.9	2677.8
107.5°	356.9	418.6	480.4	495.8	889.2	1413.8	1676.0	1961.5	2532.4	2960.5	2965.4
110°	402.3	458.1	513.9	527.8	882.4	1355.4	1591.8	1911.0	2549.2	3027.9	3048.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	447.0	500.1	553.2	566.5	882.8	1304.4	1515.2	1841.8	2495.1	2984.9	3017.1
115°	514.3	563.3	612.3	624.6	890.9	1246.0	1423.5	1738.1	2367.4	2839.3	2883.9
117.5°	580.8	625.4	669.8	681.0	907.4	1209.3	1360.3	1644.2	2212.1	2638.1	2687.6
120°	619.6	661.5	703.3	713.8	920.9	1197.0	1335.0	1594.4	2113.4	2502.6	2550.7
122.5°	657.4	699.7	742.0	752.6	940.3	1190.6	1315.7	1549.3	2016.6	2367.1	2414.5
125°	715.5	754.1	792.6	802.2	966.3	1185.2	1294.7	1493.2	1890.1	2187.8	2231.5
127.5°	762.7	801.6	840.5	850.2	992.5	1182.1	1277.0	1447.4	1788.2	2043.9	2080.7
130°	787.9	829.9	871.7	882.2	1011.5	1184.0	1270.2	1421.9	1725.3	1952.9	1986.9
132.5°	814.0	855.9	897.7	908.2	1026.9	1185.2	1264.3	1400.1	1671.7	1875.5	1906.0
135°	852.8	890.9	929.1	938.6	1043.8	1184.1	1254.3	1368.0	1595.4	1766.1	1792.3
137.5°	892.3	930.1	967.9	977.3	1069.1	1191.4	1252.6	1348.7	1541.0	1685.2	1706.8
140°	925.1	959.8	994.7	1003.4	1084.5	1192.6	1246.7	1329.8	1495.9	1620.4	1640.5
142.5°	950.3	982.6	1014.7	1022.7	1097.4	1196.9	1246.7	1319.6	1465.5	1575.0	1592.3
145°	989.1	1017.1	1045.2	1052.2	1114.3	1196.9	1238.3	1297.9	1417.3	1506.8	1519.9
147.5°	1027.8	1055.1	1082.5	1089.3	1139.0	1205.1	1238.3	1285.2	1379.1	1449.5	1460.4
150°	1053.1	1077.8	1102.5	1108.6	1151.8	1209.5	1238.3	1277.9	1357.2	1416.7	1425.4
152.5°	1079.1	1097.9	1116.5	1121.2	1160.2	1212.3	1238.3	1272.1	1339.8	1390.6	1397.2
155°	1117.9	1131.7	1145.6	1149.0	1178.8	1218.4	1238.3	1265.2	1319.1	1359.5	1363.9
157.5°	1146.5	1160.0	1173.5	1176.8	1197.3	1224.6	1238.3	1259.2	1301.1	1332.5	1335.6
160°	1165.8	1176.3	1186.8	1189.5	1205.8	1227.4	1238.3	1256.2	1292.1	1319.1	1320.9
162.5°	1185.2	1193.1	1200.9	1202.9	1214.6	1230.4	1238.3	1253.4	1283.7	1306.4	1308.1
165°	1206.3	1213.4	1220.4	1222.2	1227.6	1234.7	1238.3	1249.1	1270.8	1287.0	1288.9
167.5°	1225.6	1228.9	1232.4	1233.2	1237.7	1243.7	1246.7	1253.7	1267.9	1278.6	1279.4
170°	1238.3	1241.6	1245.0	1245.9	1246.1	1246.5	1246.7	1253.7	1267.9	1278.6	1278.6
172.5°	1245.0	1245.7	1246.5	1246.7	1246.7	1246.7	1246.7	1252.3	1263.5	1271.9	1271.3
175°	1254.3	1254.3	1254.3	1254.3	1251.7	1248.4	1246.7	1250.2	1257.4	1262.7	1262.7
177.5°	1254.3	1254.3	1254.3	1254.3	1252.3	1249.7	1248.4	1251.2	1256.8	1261.0	1260.3
180°	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1974.2	1968.6	1974.2	1970.4	1972.3	1966.8	1950.4	1945.0	1950.4	1955.9	1955.9
5°	1997.8	1994.2	1997.8	1997.8	1996.0	1992.3	1974.2	1970.4	1974.2	1976.0	1972.3
7.5°	2005.1	1999.6	2005.1	2001.4	2001.4	1997.8	1979.6	1976.0	1977.8	1983.2	1977.8
10°	2005.1	1999.6	2005.1	2003.3	2001.4	1997.8	1979.6	1972.3	1972.3	1977.8	1972.3
12.5°	1996.0	1992.3	1996.0	1992.3	1992.3	1988.7	1970.4	1963.2	1965.0	1966.8	1959.6
15°	1981.4	1976.0	1981.4	1977.8	1979.6	1974.2	1954.1	1946.8	1946.8	1950.4	1937.7
17.5°	1959.6	1952.3	1959.6	1957.8	1955.9	1952.3	1934.1	1926.8	1924.9	1926.8	1917.7
20°	1934.1	1928.6	1934.1	1932.2	1932.2	1924.9	1906.7	1897.7	1897.7	1897.7	1888.5
22.5°	1894.0	1888.5	1894.0	1897.7	1897.7	1895.8	1879.4	1866.7	1863.0	1863.0	1852.1
25°	1848.4	1843.0	1848.4	1848.4	1846.6	1848.4	1843.0	1835.8	1830.2	1824.8	1813.9
27.5°	1804.7	1801.1	1804.7	1801.1	1804.7	1799.3	1797.5	1795.7	1788.3	1782.9	1768.3
30°	1761.1	1757.4	1761.1	1757.4	1753.7	1750.1	1741.0	1737.4	1744.7	1741.0	1717.4
32.5°	1706.4	1702.8	1706.4	1706.4	1702.8	1702.8	1688.2	1682.7	1684.6	1695.5	1673.6
35°	1649.9	1644.5	1649.9	1648.1	1649.9	1644.5	1635.4	1633.5	1626.3	1639.1	1622.7
37.5°	1584.4	1579.0	1584.4	1584.4	1584.4	1588.0	1580.8	1575.3	1564.4	1580.8	1568.0
40°	1517.0	1509.7	1517.0	1515.1	1517.0	1520.7	1517.0	1513.3	1502.5	1515.1	1504.3
42.5°	1440.6	1438.7	1440.6	1442.4	1442.4	1449.6	1455.1	1447.8	1444.2	1435.0	1442.4
45°	1358.6	1354.9	1358.6	1362.2	1364.1	1367.7	1384.1	1384.1	1378.7	1364.1	1374.9
47.5°	1271.1	1262.1	1271.1	1282.1	1282.1	1287.6	1304.0	1316.6	1307.6	1289.4	1294.8
50°	1178.2	1180.1	1178.2	1185.6	1185.6	1205.6	1218.3	1231.1	1240.2	1218.3	1192.8
52.5°	1087.2	1085.4	1087.2	1092.7	1100.0	1109.1	1130.9	1143.7	1158.2	1145.5	1105.5
55°	996.1	999.8	996.1	998.0	1001.7	1007.1	1039.8	1052.6	1079.9	1063.6	1021.7
57.5°	905.1	899.6	905.1	908.8	910.6	916.0	943.4	967.0	983.5	985.3	934.2
60°	799.4	792.2	799.4	815.9	819.5	823.2	848.7	870.5	885.1	890.5	837.7
62.5°	706.6	693.9	706.6	717.5	724.9	733.9	752.1	785.0	797.6	799.4	724.9
65°	608.3	602.8	608.3	630.1	631.9	642.8	662.9	686.6	713.9	710.3	602.8
67.5°	519.0	519.0	519.0	533.6	544.5	550.0	575.5	586.5	621.0	624.7	502.6
70°	437.1	435.3	437.1	448.0	455.3	468.1	491.7	504.4	531.8	540.9	408.0
72.5°	358.8	356.9	358.8	367.9	375.2	386.1	406.1	420.7	444.3	455.3	316.9
75°	289.6	285.9	289.6	296.8	295.0	309.6	325.9	340.5	362.4	369.7	234.9
77.5°	222.2	222.2	222.2	229.5	229.5	244.0	251.4	269.6	282.3	293.2	173.0
80°	165.7	163.9	165.7	167.5	167.5	174.8	187.5	200.3	211.3	211.3	118.4
82.5°	116.6	112.9	116.6	116.6	116.6	120.2	127.4	131.2	138.4	143.8	74.7
85°	72.9	72.9	72.9	74.7	72.9	76.5	78.3	81.9	81.9	78.3	45.5
87.5°	47.3	45.5	47.3	45.5	45.5	43.7	43.7	43.7	41.9	40.1	25.5
90°	32.0	32.0	32.0	32.0	32.0	42.6	56.8	64.0	55.0	37.0	23.5
92.5°	128.2	102.7	128.2	153.6	159.9	226.7	315.7	360.3	316.3	228.4	162.5
95°	446.6	369.6	446.6	523.6	542.9	713.0	939.7	1053.1	889.4	562.0	316.5
97.5°	1070.1	923.4	1070.1	1216.7	1253.4	1360.8	1504.1	1575.8	1302.9	757.1	347.7
100°	1541.8	1367.1	1541.8	1716.5	1760.2	1752.3	1741.8	1736.6	1433.7	828.0	373.7
102.5°	2005.7	1856.1	2005.7	2155.5	2192.8	2055.9	1873.3	1782.1	1474.9	860.5	399.8
105°	2597.4	2516.9	2597.4	2677.8	2697.9	2391.0	1981.7	1777.0	1479.6	884.7	438.6
107.5°	2984.9	3004.3	2984.9	2965.4	2960.5	2532.4	1961.5	1676.0	1413.8	889.2	495.8
110°	3132.6	3216.4	3132.6	3048.8	3027.9	2549.2	1911.0	1591.8	1355.4	882.4	527.8





TEST NUMBER: P934655

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3145.8	3274.5	3145.8	3017.1	2984.9	2495.1	1841.8	1515.2	1304.4	882.8	566.5
115°	3062.3	3240.8	3062.3	2883.9	2839.3	2367.4	1738.1	1423.5	1246.0	890.9	624.6
117.5°	2885.5	3083.4	2885.5	2687.6	2638.1	2212.1	1644.2	1360.3	1209.3	907.4	681.0
120°	2743.0	2935.3	2743.0	2550.7	2502.6	2113.4	1594.4	1335.0	1197.0	920.9	713.8
122.5°	2604.1	2793.9	2604.1	2414.5	2367.1	2016.6	1549.3	1315.7	1190.6	940.3	752.6
125°	2406.2	2580.9	2406.2	2231.5	2187.8	1890.1	1493.2	1294.7	1185.2	966.3	802.2
127.5°	2228.1	2375.5	2228.1	2080.7	2043.9	1788.2	1447.4	1277.0	1182.1	992.5	850.2
130°	2123.1	2259.4	2123.1	1986.9	1952.9	1725.3	1421.9	1270.2	1184.0	1011.5	882.2
132.5°	2027.9	2149.9	2027.9	1906.0	1875.5	1671.7	1400.1	1264.3	1185.2	1026.9	908.2
135°	1897.5	2002.6	1897.5	1792.3	1766.1	1595.4	1368.0	1254.3	1184.1	1043.8	938.6
137.5°	1792.8	1878.8	1792.8	1706.8	1685.2	1541.0	1348.7	1252.6	1191.4	1069.1	977.3
140°	1721.0	1801.4	1721.0	1640.5	1620.4	1495.9	1329.8	1246.7	1192.6	1084.5	1003.4
142.5°	1661.5	1730.7	1661.5	1592.3	1575.0	1465.5	1319.6	1246.7	1196.9	1097.4	1022.7
145°	1572.3	1624.6	1572.3	1519.9	1506.8	1417.3	1297.9	1238.3	1196.9	1114.3	1052.2
147.5°	1503.7	1547.2	1503.7	1460.4	1449.5	1379.1	1285.2	1238.3	1205.1	1139.0	1089.3
150°	1460.7	1495.9	1460.7	1425.4	1416.7	1357.2	1277.9	1238.3	1209.5	1151.8	1108.6
152.5°	1423.8	1450.3	1423.8	1397.2	1390.6	1339.8	1272.1	1238.3	1212.3	1160.2	1121.2
155°	1381.5	1399.0	1381.5	1363.9	1359.5	1319.1	1265.2	1238.3	1218.4	1178.8	1149.0
157.5°	1348.0	1360.3	1348.0	1335.6	1332.5	1301.1	1259.2	1238.3	1224.6	1197.3	1176.8
160°	1328.0	1335.0	1328.0	1320.9	1319.1	1292.1	1256.2	1238.3	1227.4	1205.8	1189.5
162.5°	1314.8	1321.6	1314.8	1308.1	1306.4	1283.7	1253.4	1238.3	1230.4	1214.6	1202.9
165°	1295.9	1303.1	1295.9	1288.9	1287.0	1270.8	1249.1	1238.3	1234.7	1227.6	1222.2
167.5°	1282.4	1285.4	1282.4	1279.4	1278.6	1267.9	1253.7	1246.7	1243.7	1237.7	1233.2
170°	1278.6	1278.6	1278.6	1278.6	1278.6	1267.9	1253.7	1246.7	1246.5	1246.1	1245.9
172.5°	1268.7	1266.0	1268.7	1271.3	1271.9	1263.5	1252.3	1246.7	1246.7	1246.7	1246.7
175°	1262.7	1262.7	1262.7	1262.7	1262.7	1257.4	1250.2	1246.7	1248.4	1251.7	1254.3
177.5°	1257.3	1254.3	1257.3	1260.3	1261.0	1256.8	1251.2	1248.4	1249.7	1252.3	1254.3
180°	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3



TEST NUMBER: P934655

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1952.3	1941.3	1941.3	1923.1	1915.9	1910.3	1901.3	1874.0	1866.7	1859.4	1870.3
5°	1968.6	1948.6	1934.1	1901.3	1874.0	1863.0	1828.4	1762.9	1719.2	1686.4	1668.2
7.5°	1972.3	1946.8	1919.5	1868.5	1802.9	1773.8	1668.2	1548.0	1515.1	1486.1	1467.8
10°	1968.6	1939.5	1901.3	1824.8	1670.0	1619.0	1513.3	1435.0	1415.0	1409.6	1415.0
12.5°	1955.9	1928.6	1875.8	1748.3	1531.6	1497.0	1435.0	1389.5	1385.9	1395.0	1444.2
15°	1934.1	1908.5	1846.6	1646.3	1455.1	1429.6	1385.9	1369.5	1389.5	1453.2	1600.8
17.5°	1912.2	1883.1	1806.6	1546.2	1396.8	1378.7	1347.6	1380.5	1493.3	1579.0	1628.1
20°	1883.1	1848.4	1761.1	1473.3	1354.9	1338.6	1324.0	1471.5	1557.1	1588.0	1615.4
22.5°	1848.4	1812.0	1699.2	1422.3	1311.2	1298.5	1307.6	1522.5	1557.1	1579.0	1602.6
25°	1802.9	1771.9	1626.3	1382.3	1276.6	1262.1	1296.6	1517.0	1537.1	1542.5	1589.8
27.5°	1761.1	1721.0	1549.8	1345.8	1234.7	1229.3	1305.8	1493.3	1507.9	1513.3	1564.4
30°	1710.0	1649.9	1464.2	1307.6	1191.0	1189.2	1307.6	1464.2	1460.6	1475.1	1526.1
32.5°	1657.3	1544.3	1367.7	1260.3	1149.1	1147.3	1294.8	1420.5	1416.8	1436.9	1475.1
35°	1608.1	1462.4	1236.5	1205.6	1096.3	1098.1	1263.9	1369.5	1371.3	1389.5	1413.2
37.5°	1557.1	1391.3	1092.7	1145.5	1045.4	1045.4	1222.0	1322.2	1318.5	1324.0	1356.7
40°	1497.0	1280.3	965.2	1067.2	998.0	992.5	1171.0	1271.1	1258.4	1256.6	1302.1
42.5°	1433.2	1158.2	870.5	963.4	943.4	936.0	1109.1	1209.2	1185.6	1191.0	1249.3
45°	1364.1	1125.5	797.6	814.0	886.9	881.4	1041.7	1138.2	1121.9	1136.4	1196.5
47.5°	1294.8	1059.9	774.0	675.6	826.8	825.0	967.0	1069.0	1059.9	1074.5	1138.2
50°	1200.2	987.1	772.2	579.1	759.4	766.7	877.8	1001.7	1001.7	1014.4	1081.8
52.5°	1078.1	897.8	701.1	524.5	681.1	702.9	799.4	943.4	947.0	959.7	1019.8
55°	967.0	805.0	650.2	482.6	588.3	635.6	723.0	883.3	890.5	903.3	957.9
57.5°	865.1	670.2	639.2	433.4	502.6	548.2	655.6	825.0	828.6	839.5	892.4
60°	755.8	484.4	586.5	380.6	428.0	462.5	593.7	755.8	768.5	775.8	821.3
62.5°	631.9	351.5	531.8	344.2	391.6	398.8	542.7	690.2	706.6	712.1	739.4
65°	449.9	295.0	451.7	313.3	353.3	355.1	488.1	622.8	637.4	646.5	666.6
67.5°	304.1	240.4	344.2	284.1	324.1	325.9	435.3	544.5	564.5	571.9	584.6
70°	211.3	160.3	255.0	253.2	291.4	295.0	378.8	473.5	491.7	497.2	504.4
72.5°	154.8	129.3	211.3	227.6	256.8	260.4	320.5	393.4	411.6	417.0	420.7
75°	118.4	136.6	171.2	198.5	218.5	220.3	262.2	320.5	333.3	336.9	338.7
77.5°	94.7	127.4	125.6	160.3	178.5	174.8	205.8	247.7	258.6	258.6	258.6
80°	71.1	100.2	94.7	114.8	131.2	127.4	147.5	176.7	180.3	183.9	182.1
82.5°	52.8	63.7	63.7	72.9	87.4	83.8	98.3	114.8	114.8	114.8	118.4
85°	32.8	36.4	29.1	38.3	49.2	47.3	54.7	61.9	63.7	63.7	60.1
87.5°	20.0	16.4	9.1	14.6	21.8	21.8	25.5	27.3	25.5	25.5	25.5
90°	21.8	15.1	8.4	15.1	21.8	23.5	37.0	55.0	64.0	56.8	42.6
92.5°	148.2	90.9	33.7	90.9	148.2	162.5	228.4	316.3	360.3	315.7	226.7
95°	290.4	185.6	80.8	185.6	290.4	316.5	562.0	889.4	1053.1	939.7	713.0
97.5°	324.6	232.2	139.8	232.2	324.6	347.7	757.1	1302.9	1575.8	1504.1	1360.8
100°	352.8	269.0	185.2	269.0	352.8	373.7	828.0	1433.7	1736.6	1741.8	1752.3
102.5°	380.3	302.1	223.9	302.1	380.3	399.8	860.5	1474.9	1782.1	1873.3	2055.9
105°	422.0	355.8	289.6	355.8	422.0	438.6	884.7	1479.6	1777.0	1981.7	2391.0
107.5°	480.4	418.6	356.9	418.6	480.4	495.8	889.2	1413.8	1676.0	1961.5	2532.4
110°	513.9	458.1	402.3	458.1	513.9	527.8	882.4	1355.4	1591.8	1911.0	2549.2



TEST NUMBER: P934655

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	553.2	500.1	447.0	500.1	553.2	566.5	882.8	1304.4	1515.2	1841.8	2495.1
115°	612.3	563.3	514.3	563.3	612.3	624.6	890.9	1246.0	1423.5	1738.1	2367.4
117.5°	669.8	625.4	580.8	625.4	669.8	681.0	907.4	1209.3	1360.3	1644.2	2212.1
120°	703.3	661.5	619.6	661.5	703.3	713.8	920.9	1197.0	1335.0	1594.4	2113.4
122.5°	742.0	699.7	657.4	699.7	742.0	752.6	940.3	1190.6	1315.7	1549.3	2016.6
125°	792.6	754.1	715.5	754.1	792.6	802.2	966.3	1185.2	1294.7	1493.2	1890.1
127.5°	840.5	801.6	762.7	801.6	840.5	850.2	992.5	1182.1	1277.0	1447.4	1788.2
130°	871.7	829.9	787.9	829.9	871.7	882.2	1011.5	1184.0	1270.2	1421.9	1725.3
132.5°	897.7	855.9	814.0	855.9	897.7	908.2	1026.9	1185.2	1264.3	1400.1	1671.7
135°	929.1	890.9	852.8	890.9	929.1	938.6	1043.8	1184.1	1254.3	1368.0	1595.4
137.5°	967.9	930.1	892.3	930.1	967.9	977.3	1069.1	1191.4	1252.6	1348.7	1541.0
140°	994.7	959.8	925.1	959.8	994.7	1003.4	1084.5	1192.6	1246.7	1329.8	1495.9
142.5°	1014.7	982.6	950.3	982.6	1014.7	1022.7	1097.4	1196.9	1246.7	1319.6	1465.5
145°	1045.2	1017.1	989.1	1017.1	1045.2	1052.2	1114.3	1196.9	1238.3	1297.9	1417.3
147.5°	1082.5	1055.1	1027.8	1055.1	1082.5	1089.3	1139.0	1205.1	1238.3	1285.2	1379.1
150°	1102.5	1077.8	1053.1	1077.8	1102.5	1108.6	1151.8	1209.5	1238.3	1277.9	1357.2
152.5°	1116.5	1097.9	1079.1	1097.9	1116.5	1121.2	1160.2	1212.3	1238.3	1272.1	1339.8
155°	1145.6	1131.7	1117.9	1131.7	1145.6	1149.0	1178.8	1218.4	1238.3	1265.2	1319.1
157.5°	1173.5	1160.0	1146.5	1160.0	1173.5	1176.8	1197.3	1224.6	1238.3	1259.2	1301.1
160°	1186.8	1176.3	1165.8	1176.3	1186.8	1189.5	1205.8	1227.4	1238.3	1256.2	1292.1
162.5°	1200.9	1193.1	1185.2	1193.1	1200.9	1202.9	1214.6	1230.4	1238.3	1253.4	1283.7
165°	1220.4	1213.4	1206.3	1213.4	1220.4	1222.2	1227.6	1234.7	1238.3	1249.1	1270.8
167.5°	1232.4	1228.9	1225.6	1228.9	1232.4	1233.2	1237.7	1243.7	1246.7	1253.7	1267.9
170°	1245.0	1241.6	1238.3	1241.6	1245.0	1245.9	1246.1	1246.5	1246.7	1253.7	1267.9
172.5°	1246.5	1245.7	1245.0	1245.7	1246.5	1246.7	1246.7	1246.7	1246.7	1252.3	1263.5
175°	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1251.7	1248.4	1246.7	1250.2	1257.4
177.5°	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1252.3	1249.7	1248.4	1251.2	1256.8
180°	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3



TEST NUMBER: P934655

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1857.6	1852.1	1859.4	1839.4	1859.4	1852.1	1857.6	1870.3	1859.4	1866.7	1874.0
5°	1629.9	1620.8	1591.7	1568.0	1591.7	1620.8	1629.9	1668.2	1686.4	1719.2	1762.9
7.5°	1456.9	1449.6	1442.4	1427.8	1442.4	1449.6	1456.9	1467.8	1486.1	1515.1	1548.0
10°	1418.7	1420.5	1431.4	1429.6	1431.4	1420.5	1418.7	1415.0	1409.6	1415.0	1435.0
12.5°	1517.0	1533.4	1593.5	1589.8	1593.5	1533.4	1517.0	1444.2	1395.0	1385.9	1389.5
15°	1629.9	1635.4	1648.1	1649.9	1648.1	1635.4	1629.9	1600.8	1453.2	1389.5	1369.5
17.5°	1640.9	1642.7	1651.7	1651.7	1651.7	1642.7	1640.9	1628.1	1579.0	1493.3	1380.5
20°	1631.7	1635.4	1653.6	1657.3	1653.6	1635.4	1631.7	1615.4	1588.0	1557.1	1471.5
22.5°	1628.1	1635.4	1649.9	1648.1	1649.9	1635.4	1628.1	1602.6	1579.0	1557.1	1522.5
25°	1609.9	1609.9	1611.7	1613.5	1611.7	1609.9	1609.9	1589.8	1542.5	1537.1	1517.0
27.5°	1571.6	1575.3	1586.2	1584.4	1586.2	1575.3	1571.6	1564.4	1513.3	1507.9	1493.3
30°	1537.1	1533.4	1524.3	1517.0	1524.3	1533.4	1537.1	1526.1	1475.1	1460.6	1464.2
32.5°	1478.8	1469.6	1460.6	1455.1	1460.6	1469.6	1478.8	1475.1	1436.9	1416.8	1420.5
35°	1409.6	1411.4	1409.6	1404.1	1409.6	1411.4	1409.6	1413.2	1389.5	1371.3	1369.5
37.5°	1360.4	1364.1	1362.2	1354.9	1362.2	1364.1	1360.4	1356.7	1324.0	1318.5	1322.2
40°	1309.4	1311.2	1309.4	1304.0	1309.4	1311.2	1309.4	1302.1	1256.6	1258.4	1271.1
42.5°	1260.3	1258.4	1252.9	1249.3	1252.9	1258.4	1260.3	1249.3	1191.0	1185.6	1209.2
45°	1203.8	1205.6	1194.6	1189.2	1194.6	1205.6	1203.8	1196.5	1136.4	1121.9	1138.2
47.5°	1147.3	1147.3	1138.2	1132.7	1138.2	1147.3	1147.3	1138.2	1074.5	1059.9	1069.0
50°	1087.2	1085.4	1072.6	1070.8	1072.6	1085.4	1087.2	1081.8	1014.4	1001.7	1001.7
52.5°	1018.0	1018.0	1019.8	1023.5	1019.8	1018.0	1018.0	1019.8	959.7	947.0	943.4
55°	957.9	959.7	972.5	976.1	972.5	959.7	957.9	957.9	903.3	890.5	883.3
57.5°	896.0	896.0	905.1	905.1	905.1	896.0	896.0	892.4	839.5	828.6	825.0
60°	825.0	828.6	835.9	834.1	835.9	828.6	825.0	821.3	775.8	768.5	755.8
62.5°	750.3	754.0	755.8	752.1	755.8	754.0	750.3	739.4	712.1	706.6	690.2
65°	672.0	675.6	677.4	673.8	677.4	675.6	672.0	666.6	646.5	637.4	622.8
67.5°	591.9	590.1	588.3	595.5	588.3	590.1	591.9	584.6	571.9	564.5	544.5
70°	509.9	509.9	508.1	511.8	508.1	509.9	509.9	504.4	497.2	491.7	473.5
72.5°	422.5	420.7	428.0	422.5	428.0	420.7	422.5	420.7	417.0	411.6	393.4
75°	336.9	340.5	336.9	342.3	336.9	340.5	336.9	338.7	336.9	333.3	320.5
77.5°	256.8	260.4	256.8	256.8	256.8	260.4	256.8	258.6	258.6	258.6	247.7
80°	182.1	180.3	180.3	178.5	180.3	180.3	182.1	182.1	183.9	180.3	176.7
82.5°	116.6	114.8	114.8	118.4	114.8	114.8	116.6	118.4	114.8	114.8	114.8
85°	63.7	65.5	61.9	61.9	61.9	65.5	63.7	60.1	63.7	63.7	61.9
87.5°	23.7	21.8	21.8	21.8	21.8	21.8	23.7	25.5	25.5	25.5	27.3
90°	32.0	32.0	32.0	32.0	32.0	32.0	32.0	42.6	56.8	64.0	55.0
92.5°	159.9	153.6	128.2	102.7	128.2	153.6	159.9	226.7	315.7	360.3	316.3
95°	542.9	523.6	446.6	369.6	446.6	523.6	542.9	713.0	939.7	1053.1	889.4
97.5°	1253.4	1216.7	1070.1	923.4	1070.1	1216.7	1253.4	1360.8	1504.1	1575.8	1302.9
100°	1760.2	1716.5	1541.8	1367.1	1541.8	1716.5	1760.2	1752.3	1741.8	1736.6	1433.7
102.5°	2192.8	2155.5	2005.7	1856.1	2005.7	2155.5	2192.8	2055.9	1873.3	1782.1	1474.9
105°	2697.9	2677.8	2597.4	2516.9	2597.4	2677.8	2697.9	2391.0	1981.7	1777.0	1479.6
107.5°	2960.5	2965.4	2984.9	3004.3	2984.9	2965.4	2960.5	2532.4	1961.5	1676.0	1413.8
110°	3027.9	3048.8	3132.6	3216.4	3132.6	3048.8	3027.9	2549.2	1911.0	1591.8	1355.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2984.9	3017.1	3145.8	3274.5	3145.8	3017.1	2984.9	2495.1	1841.8	1515.2	1304.4
115°	2839.3	2883.9	3062.3	3240.8	3062.3	2883.9	2839.3	2367.4	1738.1	1423.5	1246.0
117.5°	2638.1	2687.6	2885.5	3083.4	2885.5	2687.6	2638.1	2212.1	1644.2	1360.3	1209.3
120°	2502.6	2550.7	2743.0	2935.3	2743.0	2550.7	2502.6	2113.4	1594.4	1335.0	1197.0
122.5°	2367.1	2414.5	2604.1	2793.9	2604.1	2414.5	2367.1	2016.6	1549.3	1315.7	1190.6
125°	2187.8	2231.5	2406.2	2580.9	2406.2	2231.5	2187.8	1890.1	1493.2	1294.7	1185.2
127.5°	2043.9	2080.7	2228.1	2375.5	2228.1	2080.7	2043.9	1788.2	1447.4	1277.0	1182.1
130°	1952.9	1986.9	2123.1	2259.4	2123.1	1986.9	1952.9	1725.3	1421.9	1270.2	1184.0
132.5°	1875.5	1906.0	2027.9	2149.9	2027.9	1906.0	1875.5	1671.7	1400.1	1264.3	1185.2
135°	1766.1	1792.3	1897.5	2002.6	1897.5	1792.3	1766.1	1595.4	1368.0	1254.3	1184.1
137.5°	1685.2	1706.8	1792.8	1878.8	1792.8	1706.8	1685.2	1541.0	1348.7	1252.6	1191.4
140°	1620.4	1640.5	1721.0	1801.4	1721.0	1640.5	1620.4	1495.9	1329.8	1246.7	1192.6
142.5°	1575.0	1592.3	1661.5	1730.7	1661.5	1592.3	1575.0	1465.5	1319.6	1246.7	1196.9
145°	1506.8	1519.9	1572.3	1624.6	1572.3	1519.9	1506.8	1417.3	1297.9	1238.3	1196.9
147.5°	1449.5	1460.4	1503.7	1547.2	1503.7	1460.4	1449.5	1379.1	1285.2	1238.3	1205.1
150°	1416.7	1425.4	1460.7	1495.9	1460.7	1425.4	1416.7	1357.2	1277.9	1238.3	1209.5
152.5°	1390.6	1397.2	1423.8	1450.3	1423.8	1397.2	1390.6	1339.8	1272.1	1238.3	1212.3
155°	1359.5	1363.9	1381.5	1399.0	1381.5	1363.9	1359.5	1319.1	1265.2	1238.3	1218.4
157.5°	1332.5	1335.6	1348.0	1360.3	1348.0	1335.6	1332.5	1301.1	1259.2	1238.3	1224.6
160°	1319.1	1320.9	1328.0	1335.0	1328.0	1320.9	1319.1	1292.1	1256.2	1238.3	1227.4
162.5°	1306.4	1308.1	1314.8	1321.6	1314.8	1308.1	1306.4	1283.7	1253.4	1238.3	1230.4
165°	1287.0	1288.9	1295.9	1303.1	1295.9	1288.9	1287.0	1270.8	1249.1	1238.3	1234.7
167.5°	1278.6	1279.4	1282.4	1285.4	1282.4	1279.4	1278.6	1267.9	1253.7	1246.7	1243.7
170°	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1278.6	1267.9	1253.7	1246.7	1246.5
172.5°	1271.9	1271.3	1268.7	1266.0	1268.7	1271.3	1271.9	1263.5	1252.3	1246.7	1246.7
175°	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1257.4	1250.2	1246.7	1248.4
177.5°	1261.0	1260.3	1257.3	1254.3	1257.3	1260.3	1261.0	1256.8	1251.2	1248.4	1249.7
180°	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3



TEST NUMBER: P934655

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1901.3	1910.3	1915.9	1923.1	1941.3
5°	1828.4	1863.0	1874.0	1901.3	1934.1
7.5°	1668.2	1773.8	1802.9	1868.5	1919.5
10°	1513.3	1619.0	1670.0	1824.8	1901.3
12.5°	1435.0	1497.0	1531.6	1748.3	1875.8
15°	1385.9	1429.6	1455.1	1646.3	1846.6
17.5°	1347.6	1378.7	1396.8	1546.2	1806.6
20°	1324.0	1338.6	1354.9	1473.3	1761.1
22.5°	1307.6	1298.5	1311.2	1422.3	1699.2
25°	1296.6	1262.1	1276.6	1382.3	1626.3
27.5°	1305.8	1229.3	1234.7	1345.8	1549.8
30°	1307.6	1189.2	1191.0	1307.6	1464.2
32.5°	1294.8	1147.3	1149.1	1260.3	1367.7
35°	1263.9	1098.1	1096.3	1205.6	1236.5
37.5°	1222.0	1045.4	1045.4	1145.5	1092.7
40°	1171.0	992.5	998.0	1067.2	965.2
42.5°	1109.1	936.0	943.4	963.4	870.5
45°	1041.7	881.4	886.9	814.0	797.6
47.5°	967.0	825.0	826.8	675.6	774.0
50°	877.8	766.7	759.4	579.1	772.2
52.5°	799.4	702.9	681.1	524.5	701.1
55°	723.0	635.6	588.3	482.6	650.2
57.5°	655.6	548.2	502.6	433.4	639.2
60°	593.7	462.5	428.0	380.6	586.5
62.5°	542.7	398.8	391.6	344.2	531.8
65°	488.1	355.1	353.3	313.3	451.7
67.5°	435.3	325.9	324.1	284.1	344.2
70°	378.8	295.0	291.4	253.2	255.0
72.5°	320.5	260.4	256.8	227.6	211.3
75°	262.2	220.3	218.5	198.5	171.2
77.5°	205.8	174.8	178.5	160.3	125.6
80°	147.5	127.4	131.2	114.8	94.7
82.5°	98.3	83.8	87.4	72.9	63.7
85°	54.7	47.3	49.2	38.3	29.1
87.5°	25.5	21.8	21.8	14.6	9.1
90°	37.0	23.5	21.8	15.1	8.4
92.5°	228.4	162.5	148.2	90.9	33.7
95°	562.0	316.5	290.4	185.6	80.8
97.5°	757.1	347.7	324.6	232.2	139.8
100°	828.0	373.7	352.8	269.0	185.2
102.5°	860.5	399.8	380.3	302.1	223.9
105°	884.7	438.6	422.0	355.8	289.6
107.5°	889.2	495.8	480.4	418.6	356.9
110°	882.4	527.8	513.9	458.1	402.3



TEST NUMBER: P934655

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	882.8	566.5	553.2	500.1	447.0
115°	890.9	624.6	612.3	563.3	514.3
117.5°	907.4	681.0	669.8	625.4	580.8
120°	920.9	713.8	703.3	661.5	619.6
122.5°	940.3	752.6	742.0	699.7	657.4
125°	966.3	802.2	792.6	754.1	715.5
127.5°	992.5	850.2	840.5	801.6	762.7
130°	1011.5	882.2	871.7	829.9	787.9
132.5°	1026.9	908.2	897.7	855.9	814.0
135°	1043.8	938.6	929.1	890.9	852.8
137.5°	1069.1	977.3	967.9	930.1	892.3
140°	1084.5	1003.4	994.7	959.8	925.1
142.5°	1097.4	1022.7	1014.7	982.6	950.3
145°	1114.3	1052.2	1045.2	1017.1	989.1
147.5°	1139.0	1089.3	1082.5	1055.1	1027.8
150°	1151.8	1108.6	1102.5	1077.8	1053.1
152.5°	1160.2	1121.2	1116.5	1097.9	1079.1
155°	1178.8	1149.0	1145.6	1131.7	1117.9
157.5°	1197.3	1176.8	1173.5	1160.0	1146.5
160°	1205.8	1189.5	1186.8	1176.3	1165.8
162.5°	1214.6	1202.9	1200.9	1193.1	1185.2
165°	1227.6	1222.2	1220.4	1213.4	1206.3
167.5°	1237.7	1233.2	1232.4	1228.9	1225.6
170°	1246.1	1245.9	1245.0	1241.6	1238.3
172.5°	1246.7	1246.7	1246.5	1245.7	1245.0
175°	1251.7	1254.3	1254.3	1254.3	1254.3
177.5°	1252.3	1254.3	1254.3	1254.3	1254.3
180°	1254.3	1254.3	1254.3	1254.3	1254.3



TEST NUMBER: P934655  
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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	9.79	10.56	10.85	11.62	13.05	12.65	13.41	13.70	14.47	15.90
	3H	10.26	10.95	11.33	12.01	13.46	13.99	14.67	15.05	15.74	17.19
	4H	10.45	11.10	11.52	12.17	13.62	14.43	15.08	15.51	16.15	17.61
	6H	10.56	11.16	11.65	12.23	13.70	14.72	15.32	15.80	16.39	17.86
	8H	10.56	11.13	11.65	12.22	13.68	14.79	15.36	15.88	16.45	17.91
	12H	10.53	11.07	11.62	12.15	13.64	14.83	15.37	15.93	16.45	17.94
4H	2H	10.82	11.47	11.90	12.54	13.99	13.04	13.69	14.12	14.76	16.22
	3H	11.84	12.38	12.93	13.47	14.94	14.54	15.08	15.63	16.18	17.65
	4H	12.11	12.61	13.20	13.69	15.18	15.07	15.57	16.17	16.65	18.15
	6H	12.23	12.65	13.33	13.76	15.25	15.44	15.86	16.54	16.97	18.46
	8H	12.23	12.63	13.33	13.73	15.23	15.55	15.94	16.65	17.04	18.54
	12H	12.19	12.55	13.31	13.67	15.17	15.60	15.96	16.72	17.07	18.58
8H	4H	12.56	12.96	13.66	14.06	15.56	15.19	15.59	16.29	16.69	18.19
	6H	12.82	13.14	13.94	14.29	15.78	15.63	15.95	16.75	17.10	18.60
	8H	12.86	13.14	13.99	14.27	15.79	15.78	16.07	16.91	17.19	18.71
	12H	12.84	13.09	13.97	14.21	15.76	15.88	16.13	17.01	17.25	18.81
12H	4H	12.56	12.92	13.68	14.03	15.54	15.15	15.51	16.27	16.62	18.13
	6H	12.88	13.16	14.01	14.29	15.81	15.62	15.91	16.75	17.03	18.55
	8H	12.94	13.19	14.07	14.31	15.87	15.78	16.04	16.92	17.16	18.71