

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: P934656

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

**Test Information**

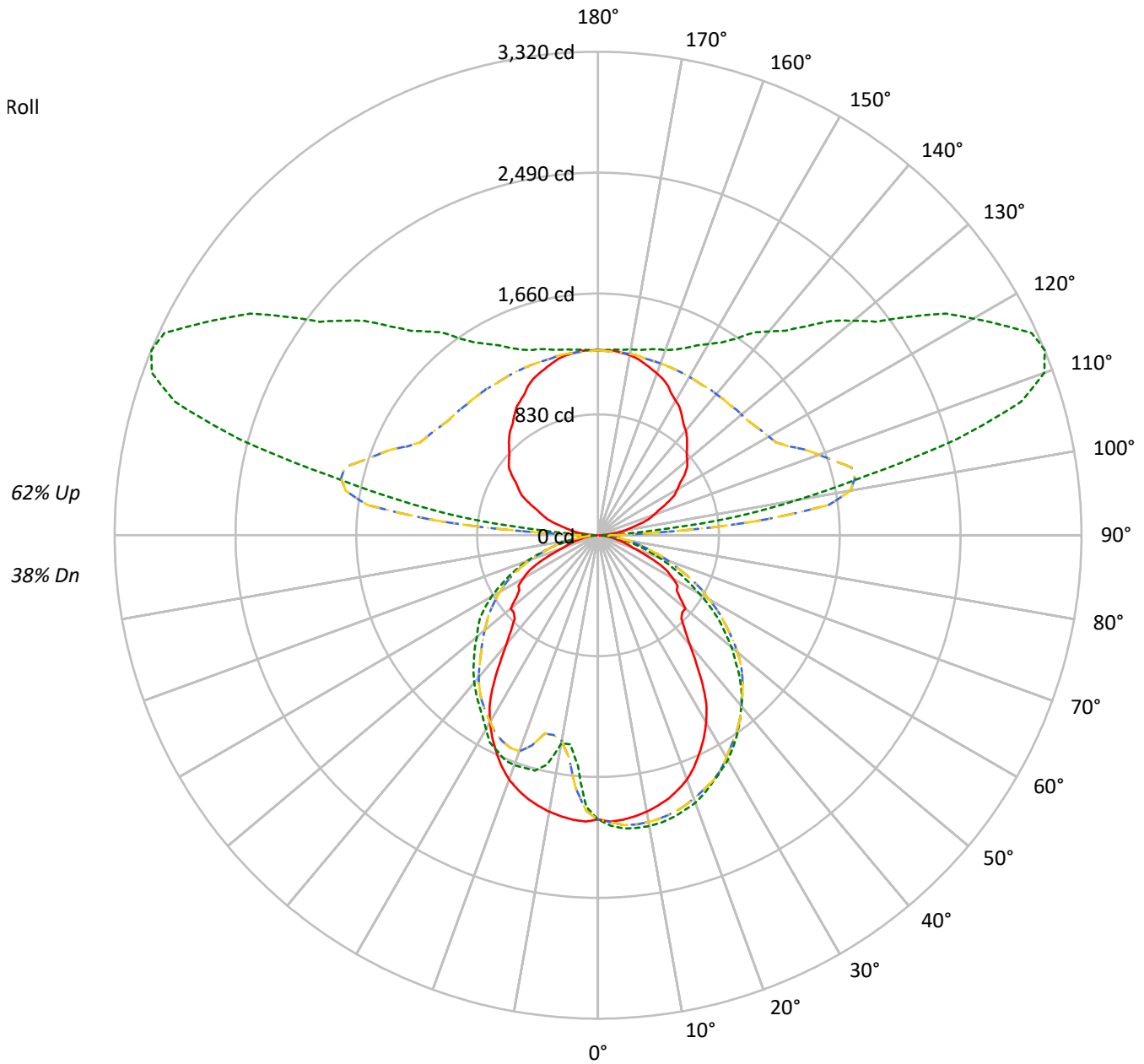
Test Method: LM-79-2019  
Report Number: P934656  
REPORT IS A COMBINATION OF REPORTS P933705 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13308.4 lumens  
Efficiency: N/A  
Efficacy: 129.0 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				
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	38	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32	32	32	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27	27	27	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23	23	23	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20	20	20	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17	17	17	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15	15	15	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13	13	13	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12	12	12	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11	11	11	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10	10	10	10

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

	0°	90°	180°	270°
0°	6036	6036	6036	6036
5°	6084	6094	6084	4791
10°	6045	6002	6045	4291
15°	5982	5872	5982	4904
20°	5859	5718	5859	4914
25°	5605	5494	5605	4810
30°	5277	5307	5277	4581
35°	4706	5071	4706	4330
40°	3923	4793	3923	4140
45°	3508	4468	3508	3922
50°	3730	4080	3730	3702
55°	3513	3663	3513	3576
60°	3626	3111	3626	3275
65°	3292	2572	3292	2874
70°	2285	2049	2285	2410
75°	2011	1515	2011	1814
80°	1633	1002	1633	1091
85°	956	531	956	451

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5374 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.2	1.3
10°-20°	500.2	3.8
20°-30°	773.2	5.8
30°-40°	923.0	6.9
40°-50°	928.4	7.0
50°-60°	807.9	6.1
60°-70°	572.8	4.3
70°-80°	303.0	2.3
80°-90°	80.3	0.6
90°-100°	619.8	4.7
100°-110°	1629.6	12.2
110°-120°	1689.7	12.7
120°-130°	1355.4	10.2
130°-140°	1063.5	8.0
140°-150°	816.3	6.1
150°-160°	587.8	4.4
160°-170°	359.7	2.7
170°-180°	121.5	0.9
0°-30°	1449.5	10.9
0°-40°	2372.6	17.8
0°-60°	4108.9	30.9
0°-90°	5065.0	38.1
90°-120°	3939.2	29.6
90°-150°	7174.3	53.9
90°-180°	8243.0	61.9
0°-180°	13308.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1952	1952	1952	1952	1952	
5°	1961	2022	1961	1590	1961	186
15°	1872	2003	1872	1673	1872	527
25°	1649	1868	1649	1636	1649	757
35°	1254	1667	1254	1424	1254	776
45°	809	1374	809	1206	809	648
55°	659	1014	659	990	659	606
65°	458	611	458	683	458	438
75°	174	290	174	347	174	182
85°	30	74	30	63	30	40
90°	8	32	8	32	8	8
95°	82	375	82	375	82	91
105°	294	2552	294	2552	294	311
115°	521	3286	521	3286	521	515
125°	725	2617	725	2617	725	644
135°	865	2030	865	2030	865	669
145°	1003	1647	1003	1647	1003	628
155°	1133	1418	1133	1418	1133	521
165°	1223	1321	1223	1321	1223	345
175°	1272	1280	1272	1280	1272	121
180°	1272	1272	1272	1272	1272	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1968.2	1968.2	1979.3	1983.0	1983.0	1977.4	1971.9	1977.4	1994.1	1999.6	1997.7
5°	1960.8	1975.6	1995.9	1999.6	2003.3	2001.5	1997.7	2001.5	2019.9	2023.6	2025.4
7.5°	1946.1	1973.8	1999.6	2005.2	2010.7	2005.2	2003.3	2007.0	2025.4	2029.1	2029.1
10°	1927.6	1966.3	1995.9	1999.6	2005.2	1999.6	1999.6	2007.0	2025.4	2029.1	2031.0
12.5°	1901.7	1955.3	1983.0	1986.7	1994.1	1992.2	1990.4	1997.7	2016.3	2019.9	2019.9
15°	1872.2	1935.0	1960.8	1964.5	1977.4	1973.8	1973.8	1981.1	2001.5	2007.0	2005.2
17.5°	1831.6	1909.2	1938.7	1944.2	1953.5	1951.6	1953.5	1960.8	1979.3	1983.0	1984.9
20°	1785.5	1874.0	1909.2	1914.7	1923.9	1923.9	1923.9	1933.1	1951.6	1959.0	1959.0
22.5°	1722.7	1837.1	1874.0	1877.8	1888.8	1888.8	1892.6	1905.4	1922.0	1923.9	1923.9
25°	1648.8	1796.5	1827.9	1839.0	1850.1	1855.6	1861.2	1868.5	1874.0	1872.2	1874.0
27.5°	1571.3	1744.8	1785.5	1792.8	1807.6	1813.1	1820.5	1822.4	1824.2	1829.7	1826.0
30°	1484.5	1672.8	1733.7	1741.1	1765.1	1768.9	1761.4	1765.1	1774.4	1778.0	1781.7
32.5°	1386.6	1565.7	1680.2	1696.8	1718.9	1707.9	1706.0	1711.6	1726.4	1726.4	1730.0
35°	1253.7	1482.6	1630.4	1645.2	1661.8	1648.8	1656.2	1658.0	1667.3	1672.8	1670.9
37.5°	1107.8	1410.6	1578.6	1589.7	1602.7	1586.1	1597.1	1602.7	1610.0	1606.3	1606.3
40°	978.5	1298.0	1517.7	1525.1	1536.1	1523.3	1534.3	1538.1	1541.7	1538.1	1536.1
42.5°	882.5	1174.3	1453.1	1462.3	1454.9	1464.2	1467.9	1475.3	1469.7	1462.3	1462.3
45°	808.7	1141.1	1383.0	1394.0	1383.0	1397.7	1403.2	1403.2	1386.6	1383.0	1381.0
47.5°	784.7	1074.6	1312.8	1312.8	1307.3	1325.7	1334.9	1322.0	1305.4	1299.8	1299.8
50°	782.9	1000.7	1216.8	1209.3	1235.2	1257.3	1248.2	1235.2	1222.3	1202.0	1202.0
52.5°	710.8	910.3	1093.1	1120.8	1161.3	1174.3	1159.5	1146.6	1124.5	1115.2	1107.8
55°	659.2	816.1	980.4	1035.8	1078.3	1094.9	1067.2	1054.2	1021.0	1015.5	1011.9
57.5°	648.1	679.5	877.0	947.2	998.9	997.1	980.4	956.4	928.7	923.2	921.4
60°	594.6	491.2	766.3	849.3	902.8	897.3	882.5	860.4	834.6	830.9	827.2
62.5°	539.1	356.3	640.6	734.9	810.5	808.7	795.8	762.5	744.1	734.9	727.5
65°	457.9	299.1	456.1	611.2	720.1	723.8	696.1	672.1	651.7	640.6	638.8
67.5°	349.0	243.7	308.3	509.6	633.3	629.6	594.6	583.5	557.6	552.1	541.0
70°	258.5	162.5	214.2	413.6	548.4	539.1	511.4	498.5	474.5	461.6	454.2
72.5°	214.2	131.0	156.9	321.3	461.6	450.5	426.5	411.8	391.4	380.4	373.0
75°	173.5	138.5	120.0	238.1	374.8	367.4	345.2	330.5	313.9	299.1	300.9
77.5°	127.4	129.2	96.0	175.4	297.2	286.2	273.3	254.8	247.4	232.6	232.6
80°	96.0	101.6	72.0	120.0	214.2	214.2	203.1	190.1	177.2	169.9	169.9
82.5°	64.6	64.6	53.5	75.7	145.8	140.3	133.0	129.2	121.9	118.2	118.2
85°	29.5	36.9	33.2	46.2	79.4	83.1	83.1	79.4	77.5	73.9	75.7
87.5°	9.3	16.6	20.3	25.9	40.7	42.5	44.3	44.3	44.3	46.2	46.2
90°	8.5	15.3	22.1	23.9	37.5	55.8	64.9	57.6	43.2	32.4	32.4
92.5°	34.1	92.1	150.2	164.7	231.5	320.6	365.2	320.1	229.9	162.2	155.7
95°	82.0	188.1	294.4	320.9	569.8	901.7	1067.6	952.8	722.9	550.4	530.9
97.5°	141.7	235.4	329.1	352.5	767.6	1320.9	1597.6	1524.9	1379.7	1270.7	1233.6
100°	187.8	272.7	357.7	378.9	839.5	1453.5	1760.6	1765.9	1776.6	1784.5	1740.2
102.5°	227.0	306.3	385.5	405.3	872.5	1495.3	1806.8	1899.3	2084.4	2223.2	2185.3
105°	293.6	360.7	427.8	444.6	897.0	1500.1	1801.6	2009.1	2424.1	2735.3	2714.9
107.5°	361.8	424.4	487.0	502.7	901.5	1433.3	1699.2	1988.6	2567.4	3001.5	3006.5
110°	407.9	464.4	521.0	535.1	894.7	1374.2	1613.9	1937.4	2584.5	3069.8	3091.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	453.2	507.0	560.9	574.4	895.0	1322.5	1536.2	1867.3	2529.6	3026.3	3058.9
115°	521.4	571.1	620.8	633.2	903.2	1263.2	1443.2	1762.2	2400.1	2878.6	2923.9
117.5°	588.9	634.0	679.1	690.4	920.0	1226.0	1379.1	1667.0	2242.8	2674.6	2724.8
120°	628.2	670.7	713.0	723.7	933.7	1213.6	1353.5	1616.5	2142.6	2537.2	2586.0
122.5°	666.5	709.4	752.2	763.0	953.3	1207.0	1333.9	1570.7	2044.5	2399.9	2448.0
125°	725.4	764.5	803.6	813.4	979.7	1201.6	1312.6	1513.8	1916.2	2218.1	2262.4
127.5°	773.2	812.7	852.2	862.0	1006.3	1198.5	1294.7	1467.5	1813.0	2072.2	2109.5
130°	798.9	841.3	883.7	894.4	1025.5	1200.3	1287.8	1441.6	1749.2	1979.9	2014.4
132.5°	825.3	867.8	910.2	920.8	1041.1	1201.6	1281.8	1419.5	1694.9	1901.5	1932.4
135°	864.6	903.2	941.9	951.6	1058.3	1200.5	1271.6	1386.9	1617.5	1790.5	1817.1
137.5°	904.7	942.9	981.3	990.8	1083.9	1207.9	1269.9	1367.4	1562.4	1708.6	1730.4
140°	937.9	973.1	1008.5	1017.3	1099.5	1209.2	1263.9	1348.2	1516.6	1642.9	1663.2
142.5°	963.5	996.2	1028.7	1036.9	1112.6	1213.5	1263.9	1337.9	1485.8	1596.8	1614.3
145°	1002.8	1031.2	1059.7	1066.8	1129.7	1213.5	1255.4	1315.9	1436.9	1527.7	1541.0
147.5°	1042.0	1069.8	1097.5	1104.4	1154.7	1221.8	1255.4	1303.0	1398.2	1469.6	1480.6
150°	1067.6	1092.7	1117.8	1124.0	1167.8	1226.2	1255.4	1295.6	1376.0	1436.3	1445.2
152.5°	1094.1	1113.1	1132.0	1136.7	1176.3	1229.1	1255.4	1289.7	1358.4	1409.9	1416.6
155°	1133.4	1147.4	1161.4	1164.9	1195.1	1235.3	1255.4	1282.8	1337.4	1378.3	1382.8
157.5°	1162.4	1176.0	1189.7	1193.1	1213.8	1241.5	1255.4	1276.6	1319.1	1350.9	1354.1
160°	1182.0	1192.6	1203.3	1205.9	1222.5	1244.4	1255.4	1273.6	1310.0	1337.4	1339.2
162.5°	1201.6	1209.6	1217.5	1219.5	1231.5	1247.4	1255.4	1270.7	1301.5	1324.5	1326.3
165°	1223.0	1230.2	1237.3	1239.2	1244.6	1251.8	1255.4	1266.4	1288.4	1304.9	1306.7
167.5°	1242.6	1246.0	1249.4	1250.3	1254.9	1260.9	1263.9	1271.1	1285.5	1296.3	1297.1
170°	1255.4	1258.8	1262.3	1263.1	1263.4	1263.8	1263.9	1271.1	1285.5	1296.3	1296.3
172.5°	1262.2	1262.9	1263.8	1263.9	1263.9	1263.9	1263.9	1269.6	1281.0	1289.5	1288.9
175°	1271.6	1271.6	1271.6	1271.6	1269.1	1265.7	1263.9	1267.5	1274.8	1280.2	1280.2
177.5°	1271.6	1271.6	1271.6	1271.6	1269.6	1267.0	1265.7	1268.5	1274.2	1278.4	1277.7
180°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	2001.5	1995.9	2001.5	1997.7	1999.6	1994.1	1977.4	1971.9	1977.4	1983.0	1983.0
5°	2025.4	2021.8	2025.4	2025.4	2023.6	2019.9	2001.5	1997.7	2001.5	2003.3	1999.6
7.5°	2032.9	2027.3	2032.9	2029.1	2029.1	2025.4	2007.0	2003.3	2005.2	2010.7	2005.2
10°	2032.9	2027.3	2032.9	2031.0	2029.1	2025.4	2007.0	1999.6	1999.6	2005.2	1999.6
12.5°	2023.6	2019.9	2023.6	2019.9	2019.9	2016.3	1997.7	1990.4	1992.2	1994.1	1986.7
15°	2008.8	2003.3	2008.8	2005.2	2007.0	2001.5	1981.1	1973.8	1973.8	1977.4	1964.5
17.5°	1986.7	1979.3	1986.7	1984.9	1983.0	1979.3	1960.8	1953.5	1951.6	1953.5	1944.2
20°	1960.8	1955.3	1960.8	1959.0	1959.0	1951.6	1933.1	1923.9	1923.9	1923.9	1914.7
22.5°	1920.2	1914.7	1920.2	1923.9	1923.9	1922.0	1905.4	1892.6	1888.8	1888.8	1877.8
25°	1874.0	1868.5	1874.0	1874.0	1872.2	1874.0	1868.5	1861.2	1855.6	1850.1	1839.0
27.5°	1829.7	1826.0	1829.7	1826.0	1829.7	1824.2	1822.4	1820.5	1813.1	1807.6	1792.8
30°	1785.5	1781.7	1785.5	1781.7	1778.0	1774.4	1765.1	1761.4	1768.9	1765.1	1741.1
32.5°	1730.0	1726.4	1730.0	1730.0	1726.4	1726.4	1711.6	1706.0	1707.9	1718.9	1696.8
35°	1672.8	1667.3	1672.8	1670.9	1672.8	1667.3	1658.0	1656.2	1648.8	1661.8	1645.2
37.5°	1606.3	1600.8	1606.3	1606.3	1606.3	1610.0	1602.7	1597.1	1586.1	1602.7	1589.7
40°	1538.1	1530.6	1538.1	1536.1	1538.1	1541.7	1538.1	1534.3	1523.3	1536.1	1525.1
42.5°	1460.5	1458.6	1460.5	1462.3	1462.3	1469.7	1475.3	1467.9	1464.2	1454.9	1462.3
45°	1377.4	1373.7	1377.4	1381.0	1383.0	1386.6	1403.2	1403.2	1397.7	1383.0	1394.0
47.5°	1288.7	1279.5	1288.7	1299.8	1299.8	1305.4	1322.0	1334.9	1325.7	1307.3	1312.8
50°	1194.6	1196.4	1194.6	1202.0	1202.0	1222.3	1235.2	1248.2	1257.3	1235.2	1209.3
52.5°	1102.2	1100.4	1102.2	1107.8	1115.2	1124.5	1146.6	1159.5	1174.3	1161.3	1120.8
55°	1009.9	1013.7	1009.9	1011.9	1015.5	1021.0	1054.2	1067.2	1094.9	1078.3	1035.8
57.5°	917.6	912.1	917.6	921.4	923.2	928.7	956.4	980.4	997.1	998.9	947.2
60°	810.5	803.2	810.5	827.2	830.9	834.6	860.4	882.5	897.3	902.8	849.3
62.5°	716.4	703.5	716.4	727.5	734.9	744.1	762.5	795.8	808.7	810.5	734.9
65°	616.7	611.2	616.7	638.8	640.6	651.7	672.1	696.1	723.8	720.1	611.2
67.5°	526.2	526.2	526.2	541.0	552.1	557.6	583.5	594.6	629.6	633.3	509.6
70°	443.2	441.3	443.2	454.2	461.6	474.5	498.5	511.4	539.1	548.4	413.6
72.5°	363.8	361.8	363.8	373.0	380.4	391.4	411.8	426.5	450.5	461.6	321.3
75°	293.6	289.9	293.6	300.9	299.1	313.9	330.5	345.2	367.4	374.8	238.1
77.5°	225.3	225.3	225.3	232.6	232.6	247.4	254.8	273.3	286.2	297.2	175.4
80°	168.0	166.2	168.0	169.9	169.9	177.2	190.1	203.1	214.2	214.2	120.0
82.5°	118.2	114.4	118.2	118.2	118.2	121.9	129.2	133.0	140.3	145.8	75.7
85°	73.9	73.9	73.9	75.7	73.9	77.5	79.4	83.1	83.1	79.4	46.2
87.5°	48.0	46.2	48.0	46.2	46.2	44.3	44.3	44.3	42.5	40.7	25.9
90°	32.4	32.4	32.4	32.4	32.4	43.2	57.6	64.9	55.8	37.5	23.9
92.5°	129.9	104.2	129.9	155.7	162.2	229.9	320.1	365.2	320.6	231.5	164.7
95°	452.8	374.7	452.8	530.9	550.4	722.9	952.8	1067.6	901.7	569.8	320.9
97.5°	1084.9	936.2	1084.9	1233.6	1270.7	1379.7	1524.9	1597.6	1320.9	767.6	352.5
100°	1563.1	1386.0	1563.1	1740.2	1784.5	1776.6	1765.9	1760.6	1453.5	839.5	378.9
102.5°	2033.5	1881.8	2033.5	2185.3	2223.2	2084.4	1899.3	1806.8	1495.3	872.5	405.3
105°	2633.3	2551.7	2633.3	2714.9	2735.3	2424.1	2009.1	1801.6	1500.1	897.0	444.6
107.5°	3026.2	3045.9	3026.2	3006.5	3001.5	2567.4	1988.6	1699.2	1433.3	901.5	502.7
110°	3176.0	3260.9	3176.0	3091.0	3069.8	2584.5	1937.4	1613.9	1374.2	894.7	535.1





TEST NUMBER: P934656

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3189.4	3319.9	3189.4	3058.9	3026.3	2529.6	1867.3	1536.2	1322.5	895.0	574.4
115°	3104.7	3285.7	3104.7	2923.9	2878.6	2400.1	1762.2	1443.2	1263.2	903.2	633.2
117.5°	2925.4	3126.1	2925.4	2724.8	2674.6	2242.8	1667.0	1379.1	1226.0	920.0	690.4
120°	2781.0	2975.9	2781.0	2586.0	2537.2	2142.6	1616.5	1353.5	1213.6	933.7	723.7
122.5°	2640.2	2832.6	2640.2	2448.0	2399.9	2044.5	1570.7	1333.9	1207.0	953.3	763.0
125°	2439.5	2616.6	2439.5	2262.4	2218.1	1916.2	1513.8	1312.6	1201.6	979.7	813.4
127.5°	2259.0	2408.4	2259.0	2109.5	2072.2	1813.0	1467.5	1294.7	1198.5	1006.3	862.0
130°	2152.5	2290.7	2152.5	2014.4	1979.9	1749.2	1441.6	1287.8	1200.3	1025.5	894.4
132.5°	2056.0	2179.7	2056.0	1932.4	1901.5	1694.9	1419.5	1281.8	1201.6	1041.1	920.8
135°	1923.8	2030.3	1923.8	1817.1	1790.5	1617.5	1386.9	1271.6	1200.5	1058.3	951.6
137.5°	1817.6	1904.9	1817.6	1730.4	1708.6	1562.4	1367.4	1269.9	1207.9	1083.9	990.8
140°	1744.8	1826.3	1744.8	1663.2	1642.9	1516.6	1348.2	1263.9	1209.2	1099.5	1017.3
142.5°	1684.5	1754.6	1684.5	1614.3	1596.8	1485.8	1337.9	1263.9	1213.5	1112.6	1036.9
145°	1594.0	1647.1	1594.0	1541.0	1527.7	1436.9	1315.9	1255.4	1213.5	1129.7	1066.8
147.5°	1524.6	1568.6	1524.6	1480.6	1469.6	1398.2	1303.0	1255.4	1221.8	1154.7	1104.4
150°	1480.9	1516.6	1480.9	1445.2	1436.3	1376.0	1295.6	1255.4	1226.2	1167.8	1124.0
152.5°	1443.5	1470.4	1443.5	1416.6	1409.9	1358.4	1289.7	1255.4	1229.1	1176.3	1136.7
155°	1400.6	1418.4	1400.6	1382.8	1378.3	1337.4	1282.8	1255.4	1235.3	1195.1	1164.9
157.5°	1366.6	1379.1	1366.6	1354.1	1350.9	1319.1	1276.6	1255.4	1241.5	1213.8	1193.1
160°	1346.4	1353.5	1346.4	1339.2	1337.4	1310.0	1273.6	1255.4	1244.4	1222.5	1205.9
162.5°	1333.0	1339.9	1333.0	1326.3	1324.5	1301.5	1270.7	1255.4	1247.4	1231.5	1219.5
165°	1313.9	1321.1	1313.9	1306.7	1304.9	1288.4	1266.4	1255.4	1251.8	1244.6	1239.2
167.5°	1300.2	1303.2	1300.2	1297.1	1296.3	1285.5	1271.1	1263.9	1260.9	1254.9	1250.3
170°	1296.3	1296.3	1296.3	1296.3	1296.3	1285.5	1271.1	1263.9	1263.8	1263.4	1263.1
172.5°	1286.2	1283.6	1286.2	1288.9	1289.5	1281.0	1269.6	1263.9	1263.9	1263.9	1263.9
175°	1280.2	1280.2	1280.2	1280.2	1280.2	1274.8	1267.5	1263.9	1265.7	1269.1	1271.6
177.5°	1274.7	1271.6	1274.7	1277.7	1278.4	1274.2	1268.5	1265.7	1267.0	1269.6	1271.6
180°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6



TEST NUMBER: P934656

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1979.3	1968.2	1968.2	1949.7	1942.4	1936.8	1927.6	1899.9	1892.6	1885.1	1896.2
5°	1995.9	1975.6	1960.8	1927.6	1899.9	1888.8	1853.7	1787.3	1743.0	1709.8	1691.3
7.5°	1999.6	1973.8	1946.1	1894.4	1827.9	1798.3	1691.3	1569.4	1536.1	1506.7	1488.1
10°	1995.9	1966.3	1927.6	1850.1	1693.1	1641.4	1534.3	1454.9	1434.6	1429.1	1434.6
12.5°	1983.0	1955.3	1901.7	1772.5	1552.8	1517.7	1454.9	1408.8	1405.1	1414.4	1464.2
15°	1960.8	1935.0	1872.2	1669.1	1475.3	1449.4	1405.1	1388.5	1408.8	1473.4	1622.9
17.5°	1938.7	1909.2	1831.6	1567.6	1416.2	1397.7	1366.3	1399.6	1514.0	1600.8	1650.7
20°	1909.2	1874.0	1785.5	1493.7	1373.7	1357.1	1342.3	1491.9	1578.6	1610.0	1637.7
22.5°	1874.0	1837.1	1722.7	1442.0	1329.4	1316.4	1325.7	1543.6	1578.6	1600.8	1624.8
25°	1827.9	1796.5	1648.8	1401.4	1294.3	1279.5	1314.6	1538.1	1558.3	1563.8	1611.8
27.5°	1785.5	1744.8	1571.3	1364.4	1251.8	1246.3	1323.9	1514.0	1528.8	1534.3	1586.1
30°	1733.7	1672.8	1484.5	1325.7	1207.5	1205.7	1325.7	1484.5	1480.8	1495.6	1547.2
32.5°	1680.2	1565.7	1386.6	1277.7	1165.0	1163.2	1312.8	1440.1	1436.5	1456.7	1495.6
35°	1630.4	1482.6	1253.7	1222.3	1111.5	1113.3	1281.4	1388.5	1390.3	1408.8	1432.8
37.5°	1578.6	1410.6	1107.8	1161.3	1059.8	1059.8	1238.9	1340.5	1336.8	1342.3	1375.5
40°	1517.7	1298.0	978.5	1082.0	1011.9	1006.3	1187.2	1288.7	1275.9	1274.0	1320.1
42.5°	1453.1	1174.3	882.5	976.7	956.4	949.0	1124.5	1225.9	1202.0	1207.5	1266.6
45°	1383.0	1141.1	808.7	825.3	899.2	893.7	1056.1	1154.0	1137.4	1152.2	1213.1
47.5°	1312.8	1074.6	784.7	685.0	838.2	836.4	980.4	1083.8	1074.6	1089.4	1154.0
50°	1216.8	1000.7	782.9	587.1	769.9	777.3	890.0	1015.5	1015.5	1028.5	1096.7
52.5°	1093.1	910.3	710.8	531.7	690.6	712.7	810.5	956.4	960.1	973.0	1034.0
55°	980.4	816.1	659.2	489.3	596.4	644.4	733.0	895.5	902.8	915.8	971.2
57.5°	877.0	679.5	648.1	439.4	509.6	555.8	664.7	836.4	840.1	851.2	904.8
60°	766.3	491.2	594.6	385.9	433.9	468.9	601.9	766.3	779.1	786.6	832.7
62.5°	640.6	356.3	539.1	349.0	397.0	404.3	550.2	699.7	716.4	722.0	749.7
65°	456.1	299.1	457.9	317.6	358.2	360.0	494.8	631.5	646.2	655.4	675.8
67.5°	308.3	243.7	349.0	288.1	328.6	330.5	441.3	552.1	572.4	579.8	592.6
70°	214.2	162.5	258.5	256.7	295.4	299.1	384.1	480.0	498.5	504.1	511.4
72.5°	156.9	131.0	214.2	230.8	260.4	264.0	325.0	398.8	417.3	422.8	426.5
75°	120.0	138.5	173.5	201.3	221.5	223.4	265.9	325.0	337.9	341.6	343.4
77.5°	96.0	129.2	127.4	162.5	181.0	177.2	208.7	251.1	262.2	262.2	262.2
80°	72.0	101.6	96.0	116.4	133.0	129.2	149.6	179.1	182.8	186.5	184.6
82.5°	53.5	64.6	64.6	73.9	88.6	85.0	99.7	116.4	116.4	116.4	120.0
85°	33.2	36.9	29.5	38.8	49.8	48.0	55.4	62.8	64.6	64.6	60.9
87.5°	20.3	16.6	9.3	14.8	22.1	22.1	25.9	27.7	25.9	25.9	25.9
90°	22.1	15.3	8.5	15.3	22.1	23.9	37.5	55.8	64.9	57.6	43.2
92.5°	150.2	92.1	34.1	92.1	150.2	164.7	231.5	320.6	365.2	320.1	229.9
95°	294.4	188.1	82.0	188.1	294.4	320.9	569.8	901.7	1067.6	952.8	722.9
97.5°	329.1	235.4	141.7	235.4	329.1	352.5	767.6	1320.9	1597.6	1524.9	1379.7
100°	357.7	272.7	187.8	272.7	357.7	378.9	839.5	1453.5	1760.6	1765.9	1776.6
102.5°	385.5	306.3	227.0	306.3	385.5	405.3	872.5	1495.3	1806.8	1899.3	2084.4
105°	427.8	360.7	293.6	360.7	427.8	444.6	897.0	1500.1	1801.6	2009.1	2424.1
107.5°	487.0	424.4	361.8	424.4	487.0	502.7	901.5	1433.3	1699.2	1988.6	2567.4
110°	521.0	464.4	407.9	464.4	521.0	535.1	894.7	1374.2	1613.9	1937.4	2584.5



TEST NUMBER: P934656

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	560.9	507.0	453.2	507.0	560.9	574.4	895.0	1322.5	1536.2	1867.3	2529.6
115°	620.8	571.1	521.4	571.1	620.8	633.2	903.2	1263.2	1443.2	1762.2	2400.1
117.5°	679.1	634.0	588.9	634.0	679.1	690.4	920.0	1226.0	1379.1	1667.0	2242.8
120°	713.0	670.7	628.2	670.7	713.0	723.7	933.7	1213.6	1353.5	1616.5	2142.6
122.5°	752.2	709.4	666.5	709.4	752.2	763.0	953.3	1207.0	1333.9	1570.7	2044.5
125°	803.6	764.5	725.4	764.5	803.6	813.4	979.7	1201.6	1312.6	1513.8	1916.2
127.5°	852.2	812.7	773.2	812.7	852.2	862.0	1006.3	1198.5	1294.7	1467.5	1813.0
130°	883.7	841.3	798.9	841.3	883.7	894.4	1025.5	1200.3	1287.8	1441.6	1749.2
132.5°	910.2	867.8	825.3	867.8	910.2	920.8	1041.1	1201.6	1281.8	1419.5	1694.9
135°	941.9	903.2	864.6	903.2	941.9	951.6	1058.3	1200.5	1271.6	1386.9	1617.5
137.5°	981.3	942.9	904.7	942.9	981.3	990.8	1083.9	1207.9	1269.9	1367.4	1562.4
140°	1008.5	973.1	937.9	973.1	1008.5	1017.3	1099.5	1209.2	1263.9	1348.2	1516.6
142.5°	1028.7	996.2	963.5	996.2	1028.7	1036.9	1112.6	1213.5	1263.9	1337.9	1485.8
145°	1059.7	1031.2	1002.8	1031.2	1059.7	1066.8	1129.7	1213.5	1255.4	1315.9	1436.9
147.5°	1097.5	1069.8	1042.0	1069.8	1097.5	1104.4	1154.7	1221.8	1255.4	1303.0	1398.2
150°	1117.8	1092.7	1067.6	1092.7	1117.8	1124.0	1167.8	1226.2	1255.4	1295.6	1376.0
152.5°	1132.0	1113.1	1094.1	1113.1	1132.0	1136.7	1176.3	1229.1	1255.4	1289.7	1358.4
155°	1161.4	1147.4	1133.4	1147.4	1161.4	1164.9	1195.1	1235.3	1255.4	1282.8	1337.4
157.5°	1189.7	1176.0	1162.4	1176.0	1189.7	1193.1	1213.8	1241.5	1255.4	1276.6	1319.1
160°	1203.3	1192.6	1182.0	1192.6	1203.3	1205.9	1222.5	1244.4	1255.4	1273.6	1310.0
162.5°	1217.5	1209.6	1201.6	1209.6	1217.5	1219.5	1231.5	1247.4	1255.4	1270.7	1301.5
165°	1237.3	1230.2	1223.0	1230.2	1237.3	1239.2	1244.6	1251.8	1255.4	1266.4	1288.4
167.5°	1249.4	1246.0	1242.6	1246.0	1249.4	1250.3	1254.9	1260.9	1263.9	1271.1	1285.5
170°	1262.3	1258.8	1255.4	1258.8	1262.3	1263.1	1263.4	1263.8	1263.9	1271.1	1285.5
172.5°	1263.8	1262.9	1262.2	1262.9	1263.8	1263.9	1263.9	1263.9	1263.9	1269.6	1281.0
175°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1269.1	1265.7	1263.9	1267.5	1274.8
177.5°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1269.6	1267.0	1265.7	1268.5	1274.2
180°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6



TEST NUMBER: P934656  
 CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1883.3	1877.8	1885.1	1864.8	1885.1	1877.8	1883.3	1896.2	1885.1	1892.6	1899.9
5°	1652.5	1643.2	1613.8	1589.7	1613.8	1643.2	1652.5	1691.3	1709.8	1743.0	1787.3
7.5°	1477.1	1469.7	1462.3	1447.6	1462.3	1469.7	1477.1	1488.1	1506.7	1536.1	1569.4
10°	1438.3	1440.1	1451.2	1449.4	1451.2	1440.1	1438.3	1434.6	1429.1	1434.6	1454.9
12.5°	1538.1	1554.7	1615.6	1611.8	1615.6	1554.7	1538.1	1464.2	1414.4	1405.1	1408.8
15°	1652.5	1658.0	1670.9	1672.8	1670.9	1658.0	1652.5	1622.9	1473.4	1408.8	1388.5
17.5°	1663.6	1665.4	1674.6	1674.6	1674.6	1665.4	1663.6	1650.7	1600.8	1514.0	1399.6
20°	1654.3	1658.0	1676.5	1680.2	1676.5	1658.0	1654.3	1637.7	1610.0	1578.6	1491.9
22.5°	1650.7	1658.0	1672.8	1670.9	1672.8	1658.0	1650.7	1624.8	1600.8	1578.6	1543.6
25°	1632.2	1632.2	1634.0	1635.9	1634.0	1632.2	1632.2	1611.8	1563.8	1558.3	1538.1
27.5°	1593.4	1597.1	1608.2	1606.3	1608.2	1597.1	1593.4	1586.1	1534.3	1528.8	1514.0
30°	1558.3	1554.7	1545.4	1538.1	1545.4	1554.7	1558.3	1547.2	1495.6	1480.8	1484.5
32.5°	1499.2	1490.0	1480.8	1475.3	1480.8	1490.0	1499.2	1495.6	1456.7	1436.5	1440.1
35°	1429.1	1431.0	1429.1	1423.5	1429.1	1431.0	1429.1	1432.8	1408.8	1390.3	1388.5
37.5°	1379.2	1383.0	1381.0	1373.7	1381.0	1383.0	1379.2	1375.5	1342.3	1336.8	1340.5
40°	1327.5	1329.4	1327.5	1322.0	1327.5	1329.4	1327.5	1320.1	1274.0	1275.9	1288.7
42.5°	1277.7	1275.9	1270.3	1266.6	1270.3	1275.9	1277.7	1266.6	1207.5	1202.0	1225.9
45°	1220.4	1222.3	1211.2	1205.7	1211.2	1222.3	1220.4	1213.1	1152.2	1137.4	1154.0
47.5°	1163.2	1163.2	1154.0	1148.4	1154.0	1163.2	1163.2	1154.0	1089.4	1074.6	1083.8
50°	1102.2	1100.4	1087.5	1085.6	1087.5	1100.4	1102.2	1096.7	1028.5	1015.5	1015.5
52.5°	1032.1	1032.1	1034.0	1037.6	1034.0	1032.1	1032.1	1034.0	973.0	960.1	956.4
55°	971.2	973.0	986.0	989.6	986.0	973.0	971.2	971.2	915.8	902.8	895.5
57.5°	908.4	908.4	917.6	917.6	917.6	908.4	908.4	904.8	851.2	840.1	836.4
60°	836.4	840.1	847.5	845.7	847.5	840.1	836.4	832.7	786.6	779.1	766.3
62.5°	760.7	764.4	766.3	762.5	766.3	764.4	760.7	749.7	722.0	716.4	699.7
65°	681.3	685.0	686.8	683.1	686.8	685.0	681.3	675.8	655.4	646.2	631.5
67.5°	600.1	598.2	596.4	603.8	596.4	598.2	600.1	592.6	579.8	572.4	552.1
70°	516.9	516.9	515.1	518.9	515.1	516.9	516.9	511.4	504.1	498.5	480.0
72.5°	428.4	426.5	433.9	428.4	433.9	426.5	428.4	426.5	422.8	417.3	398.8
75°	341.6	345.2	341.6	347.1	341.6	345.2	341.6	343.4	341.6	337.9	325.0
77.5°	260.4	264.0	260.4	260.4	260.4	264.0	260.4	262.2	262.2	262.2	251.1
80°	184.6	182.8	182.8	181.0	182.8	182.8	184.6	184.6	186.5	182.8	179.1
82.5°	118.2	116.4	116.4	120.0	116.4	116.4	118.2	120.0	116.4	116.4	116.4
85°	64.6	66.4	62.8	62.8	62.8	66.4	64.6	60.9	64.6	64.6	62.8
87.5°	24.0	22.1	22.1	22.1	22.1	22.1	24.0	25.9	25.9	25.9	27.7
90°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	43.2	57.6	64.9	55.8
92.5°	162.2	155.7	129.9	104.2	129.9	155.7	162.2	229.9	320.1	365.2	320.6
95°	550.4	530.9	452.8	374.7	452.8	530.9	550.4	722.9	952.8	1067.6	901.7
97.5°	1270.7	1233.6	1084.9	936.2	1084.9	1233.6	1270.7	1379.7	1524.9	1597.6	1320.9
100°	1784.5	1740.2	1563.1	1386.0	1563.1	1740.2	1784.5	1776.6	1765.9	1760.6	1453.5
102.5°	2223.2	2185.3	2033.5	1881.8	2033.5	2185.3	2223.2	2084.4	1899.3	1806.8	1495.3
105°	2735.3	2714.9	2633.3	2551.7	2633.3	2714.9	2735.3	2424.1	2009.1	1801.6	1500.1
107.5°	3001.5	3006.5	3026.2	3045.9	3026.2	3006.5	3001.5	2567.4	1988.6	1699.2	1433.3
110°	3069.8	3091.0	3176.0	3260.9	3176.0	3091.0	3069.8	2584.5	1937.4	1613.9	1374.2



TEST NUMBER: P934656

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3026.3	3058.9	3189.4	3319.9	3189.4	3058.9	3026.3	2529.6	1867.3	1536.2	1322.5
115°	2878.6	2923.9	3104.7	3285.7	3104.7	2923.9	2878.6	2400.1	1762.2	1443.2	1263.2
117.5°	2674.6	2724.8	2925.4	3126.1	2925.4	2724.8	2674.6	2242.8	1667.0	1379.1	1226.0
120°	2537.2	2586.0	2781.0	2975.9	2781.0	2586.0	2537.2	2142.6	1616.5	1353.5	1213.6
122.5°	2399.9	2448.0	2640.2	2832.6	2640.2	2448.0	2399.9	2044.5	1570.7	1333.9	1207.0
125°	2218.1	2262.4	2439.5	2616.6	2439.5	2262.4	2218.1	1916.2	1513.8	1312.6	1201.6
127.5°	2072.2	2109.5	2259.0	2408.4	2259.0	2109.5	2072.2	1813.0	1467.5	1294.7	1198.5
130°	1979.9	2014.4	2152.5	2290.7	2152.5	2014.4	1979.9	1749.2	1441.6	1287.8	1200.3
132.5°	1901.5	1932.4	2056.0	2179.7	2056.0	1932.4	1901.5	1694.9	1419.5	1281.8	1201.6
135°	1790.5	1817.1	1923.8	2030.3	1923.8	1817.1	1790.5	1617.5	1386.9	1271.6	1200.5
137.5°	1708.6	1730.4	1817.6	1904.9	1817.6	1730.4	1708.6	1562.4	1367.4	1269.9	1207.9
140°	1642.9	1663.2	1744.8	1826.3	1744.8	1663.2	1642.9	1516.6	1348.2	1263.9	1209.2
142.5°	1596.8	1614.3	1684.5	1754.6	1684.5	1614.3	1596.8	1485.8	1337.9	1263.9	1213.5
145°	1527.7	1541.0	1594.0	1647.1	1594.0	1541.0	1527.7	1436.9	1315.9	1255.4	1213.5
147.5°	1469.6	1480.6	1524.6	1568.6	1524.6	1480.6	1469.6	1398.2	1303.0	1255.4	1221.8
150°	1436.3	1445.2	1480.9	1516.6	1480.9	1445.2	1436.3	1376.0	1295.6	1255.4	1226.2
152.5°	1409.9	1416.6	1443.5	1470.4	1443.5	1416.6	1409.9	1358.4	1289.7	1255.4	1229.1
155°	1378.3	1382.8	1400.6	1418.4	1400.6	1382.8	1378.3	1337.4	1282.8	1255.4	1235.3
157.5°	1350.9	1354.1	1366.6	1379.1	1366.6	1354.1	1350.9	1319.1	1276.6	1255.4	1241.5
160°	1337.4	1339.2	1346.4	1353.5	1346.4	1339.2	1337.4	1310.0	1273.6	1255.4	1244.4
162.5°	1324.5	1326.3	1333.0	1339.9	1333.0	1326.3	1324.5	1301.5	1270.7	1255.4	1247.4
165°	1304.9	1306.7	1313.9	1321.1	1313.9	1306.7	1304.9	1288.4	1266.4	1255.4	1251.8
167.5°	1296.3	1297.1	1300.2	1303.2	1300.2	1297.1	1296.3	1285.5	1271.1	1263.9	1260.9
170°	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1285.5	1271.1	1263.9	1263.8
172.5°	1289.5	1288.9	1286.2	1283.6	1286.2	1288.9	1289.5	1281.0	1269.6	1263.9	1263.9
175°	1280.2	1280.2	1280.2	1280.2	1280.2	1280.2	1280.2	1274.8	1267.5	1263.9	1265.7
177.5°	1278.4	1277.7	1274.7	1271.6	1274.7	1277.7	1278.4	1274.2	1268.5	1265.7	1267.0
180°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6



TEST NUMBER: P934656

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1927.6	1936.8	1942.4	1949.7	1968.2
5°	1853.7	1888.8	1899.9	1927.6	1960.8
7.5°	1691.3	1798.3	1827.9	1894.4	1946.1
10°	1534.3	1641.4	1693.1	1850.1	1927.6
12.5°	1454.9	1517.7	1552.8	1772.5	1901.7
15°	1405.1	1449.4	1475.3	1669.1	1872.2
17.5°	1366.3	1397.7	1416.2	1567.6	1831.6
20°	1342.3	1357.1	1373.7	1493.7	1785.5
22.5°	1325.7	1316.4	1329.4	1442.0	1722.7
25°	1314.6	1279.5	1294.3	1401.4	1648.8
27.5°	1323.9	1246.3	1251.8	1364.4	1571.3
30°	1325.7	1205.7	1207.5	1325.7	1484.5
32.5°	1312.8	1163.2	1165.0	1277.7	1386.6
35°	1281.4	1113.3	1111.5	1222.3	1253.7
37.5°	1238.9	1059.8	1059.8	1161.3	1107.8
40°	1187.2	1006.3	1011.9	1082.0	978.5
42.5°	1124.5	949.0	956.4	976.7	882.5
45°	1056.1	893.7	899.2	825.3	808.7
47.5°	980.4	836.4	838.2	685.0	784.7
50°	890.0	777.3	769.9	587.1	782.9
52.5°	810.5	712.7	690.6	531.7	710.8
55°	733.0	644.4	596.4	489.3	659.2
57.5°	664.7	555.8	509.6	439.4	648.1
60°	601.9	468.9	433.9	385.9	594.6
62.5°	550.2	404.3	397.0	349.0	539.1
65°	494.8	360.0	358.2	317.6	457.9
67.5°	441.3	330.5	328.6	288.1	349.0
70°	384.1	299.1	295.4	256.7	258.5
72.5°	325.0	264.0	260.4	230.8	214.2
75°	265.9	223.4	221.5	201.3	173.5
77.5°	208.7	177.2	181.0	162.5	127.4
80°	149.6	129.2	133.0	116.4	96.0
82.5°	99.7	85.0	88.6	73.9	64.6
85°	55.4	48.0	49.8	38.8	29.5
87.5°	25.9	22.1	22.1	14.8	9.3
90°	37.5	23.9	22.1	15.3	8.5
92.5°	231.5	164.7	150.2	92.1	34.1
95°	569.8	320.9	294.4	188.1	82.0
97.5°	767.6	352.5	329.1	235.4	141.7
100°	839.5	378.9	357.7	272.7	187.8
102.5°	872.5	405.3	385.5	306.3	227.0
105°	897.0	444.6	427.8	360.7	293.6
107.5°	901.5	502.7	487.0	424.4	361.8
110°	894.7	535.1	521.0	464.4	407.9



TEST NUMBER: P934656

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	895.0	574.4	560.9	507.0	453.2
115°	903.2	633.2	620.8	571.1	521.4
117.5°	920.0	690.4	679.1	634.0	588.9
120°	933.7	723.7	713.0	670.7	628.2
122.5°	953.3	763.0	752.2	709.4	666.5
125°	979.7	813.4	803.6	764.5	725.4
127.5°	1006.3	862.0	852.2	812.7	773.2
130°	1025.5	894.4	883.7	841.3	798.9
132.5°	1041.1	920.8	910.2	867.8	825.3
135°	1058.3	951.6	941.9	903.2	864.6
137.5°	1083.9	990.8	981.3	942.9	904.7
140°	1099.5	1017.3	1008.5	973.1	937.9
142.5°	1112.6	1036.9	1028.7	996.2	963.5
145°	1129.7	1066.8	1059.7	1031.2	1002.8
147.5°	1154.7	1104.4	1097.5	1069.8	1042.0
150°	1167.8	1124.0	1117.8	1092.7	1067.6
152.5°	1176.3	1136.7	1132.0	1113.1	1094.1
155°	1195.1	1164.9	1161.4	1147.4	1133.4
157.5°	1213.8	1193.1	1189.7	1176.0	1162.4
160°	1222.5	1205.9	1203.3	1192.6	1182.0
162.5°	1231.5	1219.5	1217.5	1209.6	1201.6
165°	1244.6	1239.2	1237.3	1230.2	1223.0
167.5°	1254.9	1250.3	1249.4	1246.0	1242.6
170°	1263.4	1263.1	1262.3	1258.8	1255.4
172.5°	1263.9	1263.9	1263.8	1262.9	1262.2
175°	1269.1	1271.6	1271.6	1271.6	1271.6
177.5°	1269.6	1271.6	1271.6	1271.6	1271.6
180°	1271.6	1271.6	1271.6	1271.6	1271.6



TEST NUMBER: P934656  
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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	9.84	10.61	10.90	11.66	13.10	12.69	13.46	13.75	14.51	15.95
	3H	10.31	10.99	11.37	12.06	13.51	14.04	14.72	15.10	15.79	17.24
	4H	10.50	11.15	11.57	12.21	13.67	14.48	15.13	15.56	16.20	17.66
	6H	10.61	11.21	11.70	12.28	13.75	14.77	15.36	15.85	16.44	17.90
	8H	10.61	11.18	11.70	12.26	13.73	14.84	15.41	15.93	16.50	17.96
	12H	10.58	11.12	11.67	12.20	13.69	14.88	15.42	15.97	16.50	17.99
4H	2H	10.87	11.52	11.95	12.58	14.04	13.09	13.74	14.17	14.81	16.26
	3H	11.89	12.43	12.97	13.52	14.99	14.59	15.13	15.68	16.23	17.70
	4H	12.16	12.65	13.25	13.74	15.23	15.12	15.62	16.21	16.70	18.19
	6H	12.28	12.70	13.38	13.81	15.30	15.49	15.91	16.59	17.02	18.50
	8H	12.28	12.68	13.38	13.78	15.28	15.59	15.99	16.70	17.09	18.59
	12H	12.24	12.60	13.36	13.72	15.22	15.65	16.01	16.77	17.12	18.63
8H	4H	12.61	13.00	13.71	14.10	15.60	15.24	15.63	16.34	16.73	18.24
	6H	12.86	13.19	13.99	14.33	15.83	15.67	16.00	16.80	17.15	18.64
	8H	12.91	13.19	14.04	14.32	15.83	15.83	16.12	16.96	17.24	18.76
	12H	12.88	13.14	14.02	14.26	15.81	15.93	16.18	17.06	17.30	18.85
12H	4H	12.61	12.97	13.73	14.08	15.59	15.20	15.56	16.32	16.67	18.18
	6H	12.92	13.21	14.06	14.34	15.85	15.67	15.96	16.80	17.08	18.60
	8H	12.99	13.24	14.12	14.36	15.91	15.83	16.08	16.97	17.20	18.76