

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: P934463

Luminaire Tested: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

**Test Information**

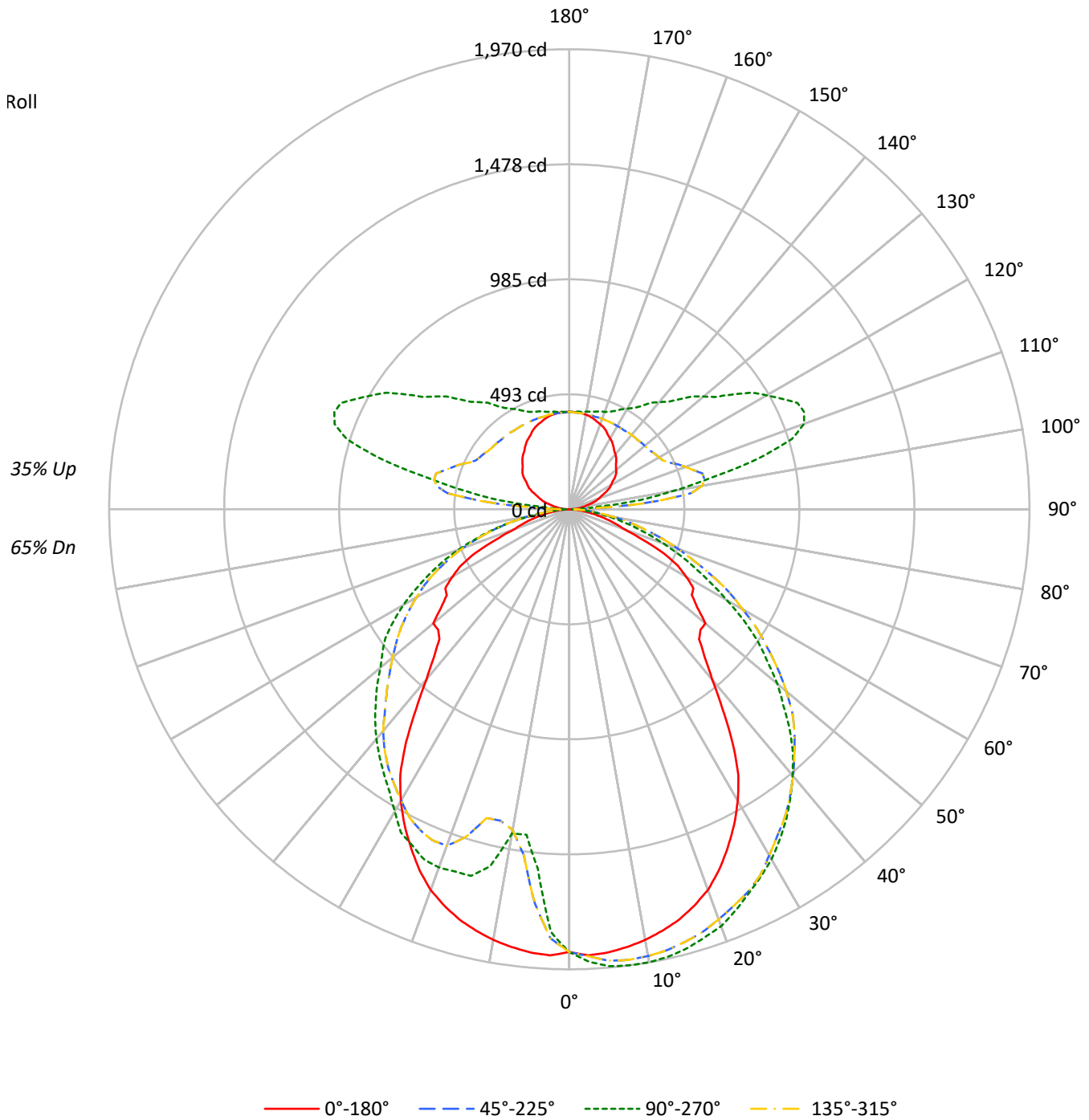
Test Method: LM-79-2019  
Report Number: P934463  
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7620.6 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 67.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

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

	0°	90°	180°	270°
0°	11729	11729	11729	11729
5°	11812	11839	11812	9310
10°	11729	11662	11729	8338
15°	11597	11410	11597	9527
20°	11350	11111	11350	9547
25°	10849	10674	10849	9345
30°	10204	10311	10204	8901
35°	9092	9853	9092	8413
40°	7571	9313	7571	8044
45°	6761	8682	6761	7620
50°	7176	7928	7176	7194
55°	6746	7116	6746	6948
60°	6946	6043	6946	6363
65°	6288	4996	6288	5585
70°	4343	3982	4343	4681
75°	3794	2943	3794	3525
80°	3033	1947	3033	2119
85°	1711	1031	1711	876

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10368 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.1	2.2
10°-20°	485.9	6.4
20°-30°	751.2	9.9
30°-40°	896.7	11.8
40°-50°	902.0	11.8
50°-60°	784.8	10.3
60°-70°	556.5	7.3
70°-80°	294.4	3.9
80°-90°	74.9	1.0
90°-100°	203.2	2.7
100°-110°	534.4	7.0
110°-120°	554.1	7.3
120°-130°	444.4	5.8
130°-140°	348.7	4.6
140°-150°	267.7	3.5
150°-160°	192.8	2.5
160°-170°	117.9	1.5
170°-180°	39.8	0.5
0°-30°	1408.2	18.5
0°-40°	2305.0	30.2
0°-60°	3991.8	52.4
0°-90°	4917.5	64.5
90°-120°	1291.7	16.9
90°-150°	2352.5	30.9
90°-180°	2703.0	35.5
0°-180°	7620.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1896	1896	1896	1896	1896	
5°	1905	1964	1905	1544	1905	181
15°	1819	1946	1819	1625	1819	512
25°	1602	1815	1602	1589	1602	735
35°	1218	1620	1218	1383	1218	754
45°	786	1335	786	1171	786	629
55°	640	985	640	962	640	588
65°	445	594	445	664	445	425
75°	169	282	169	337	169	177
85°	29	72	29	61	29	39
90°	3	11	3	11	3	4
95°	27	123	27	123	27	30
105°	96	837	96	837	96	102
115°	171	1077	171	1077	171	169
125°	238	858	238	858	238	211
135°	284	666	284	666	284	219
145°	329	540	329	540	329	206
155°	372	465	372	465	372	171
165°	401	433	401	433	401	113
175°	417	420	417	420	417	40
180°	417	417	417	417	417	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1912.2	1912.2	1922.9	1926.5	1926.5	1921.1	1915.7	1921.1	1937.2	1942.7	1940.8
5°	1904.9	1919.3	1939.0	1942.7	1946.2	1944.4	1940.8	1944.4	1962.3	1965.9	1967.7
7.5°	1890.6	1917.5	1942.7	1948.0	1953.3	1948.0	1946.2	1949.8	1967.7	1971.4	1971.4
10°	1872.7	1910.3	1939.0	1942.7	1948.0	1942.7	1942.7	1949.8	1967.7	1971.4	1973.1
12.5°	1847.5	1899.6	1926.5	1930.1	1937.2	1935.4	1933.6	1940.8	1958.8	1962.3	1962.3
15°	1818.8	1879.8	1904.9	1908.5	1921.1	1917.5	1917.5	1924.6	1944.4	1949.8	1948.0
17.5°	1779.4	1854.7	1883.5	1888.8	1897.8	1896.0	1897.8	1904.9	1922.9	1926.5	1928.3
20°	1734.6	1820.6	1854.7	1860.1	1869.1	1869.1	1869.1	1878.0	1896.0	1903.2	1903.2
22.5°	1673.6	1784.8	1820.6	1824.3	1835.0	1835.0	1838.6	1851.1	1867.3	1869.1	1869.1
25°	1601.8	1745.3	1775.8	1786.5	1797.3	1802.7	1808.1	1815.3	1820.6	1818.8	1820.6
27.5°	1526.5	1695.1	1734.6	1741.7	1756.1	1761.4	1768.6	1770.4	1772.2	1777.6	1774.0
30°	1442.2	1625.1	1684.3	1691.5	1714.8	1718.4	1711.2	1714.8	1723.8	1727.4	1730.9
32.5°	1347.1	1521.1	1632.3	1648.5	1669.9	1659.2	1657.4	1662.8	1677.2	1677.2	1680.7
35°	1218.0	1440.4	1583.9	1598.2	1614.4	1601.8	1609.0	1610.7	1619.7	1625.1	1623.3
37.5°	1076.2	1370.4	1533.6	1544.4	1557.0	1540.9	1551.5	1557.0	1564.1	1560.6	1560.6
40°	950.7	1261.0	1474.4	1481.7	1492.4	1479.8	1490.6	1494.1	1497.8	1494.1	1492.4
42.5°	857.4	1140.8	1411.7	1420.7	1413.5	1422.5	1426.0	1433.2	1427.8	1420.7	1420.7
45°	785.7	1108.6	1343.5	1354.3	1343.5	1357.8	1363.3	1363.3	1347.1	1343.5	1341.7
47.5°	762.3	1043.9	1275.4	1275.4	1269.9	1287.9	1296.8	1284.3	1268.1	1262.8	1262.8
50°	760.5	972.2	1182.0	1174.9	1200.0	1221.5	1212.6	1200.0	1187.5	1167.7	1167.7
52.5°	690.5	884.3	1061.8	1088.8	1128.3	1140.8	1126.5	1113.9	1092.3	1083.4	1076.2
55°	640.4	792.8	952.5	1006.3	1047.5	1063.7	1036.8	1024.2	992.0	986.5	983.0
57.5°	629.6	660.1	852.0	920.2	970.4	968.6	952.5	929.1	902.3	896.8	895.1
60°	577.6	477.1	744.4	825.1	877.1	871.8	857.4	835.9	810.8	807.2	803.6
62.5°	523.7	346.2	622.4	713.9	787.5	785.7	773.1	740.8	722.9	713.9	706.7
65°	444.9	290.6	443.1	593.7	699.6	703.1	676.2	652.9	633.2	622.4	620.7
67.5°	339.0	236.8	299.5	495.0	615.2	611.7	577.6	566.8	541.7	536.3	525.5
70°	251.1	157.9	208.1	401.8	532.8	523.7	496.8	484.4	461.0	448.4	441.3
72.5°	208.1	127.4	152.4	312.1	448.4	437.6	414.4	400.0	380.3	369.5	362.3
75°	168.6	134.5	116.6	231.4	364.1	357.0	335.5	321.1	304.9	290.6	292.4
77.5°	123.7	125.5	93.2	170.4	288.7	278.1	265.5	247.6	240.3	226.0	226.0
80°	93.2	98.7	70.0	116.6	208.1	208.1	197.3	184.7	172.2	165.0	165.0
82.5°	62.8	62.8	52.0	73.5	141.7	136.3	129.2	125.5	118.4	114.8	114.8
85°	28.7	35.8	32.3	44.8	77.1	80.7	80.7	77.1	75.3	71.8	73.5
87.5°	9.0	16.1	19.7	25.1	39.5	41.3	43.1	43.1	43.1	44.8	44.8
90°	2.8	5.1	7.3	7.9	12.3	18.3	21.3	18.9	14.1	10.6	10.6
92.5°	11.2	30.2	49.2	54.0	75.9	105.2	119.8	104.9	75.3	53.1	51.1
95°	26.9	61.6	96.5	105.2	186.8	295.7	350.1	312.5	237.1	180.5	174.1
97.5°	46.4	77.2	107.9	115.6	251.7	433.2	523.9	500.1	452.4	416.6	404.4
100°	61.6	89.4	117.3	124.3	275.3	476.7	577.3	579.0	582.6	585.2	570.7
102.5°	74.4	100.5	126.5	133.0	286.1	490.3	592.4	622.8	683.5	729.0	716.6
105°	96.3	118.3	140.3	145.8	294.1	491.9	590.7	658.8	794.8	896.9	890.2
107.5°	118.7	139.2	159.7	164.8	295.6	470.0	557.1	652.0	841.8	984.2	985.8
110°	133.8	152.2	170.8	175.4	293.4	450.6	529.2	635.2	847.5	1006.6	1013.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	148.6	166.3	183.9	188.4	293.5	433.7	503.7	612.3	829.5	992.3	1003.0
115°	171.0	187.3	203.6	207.6	296.2	414.2	473.2	577.9	787.0	943.9	958.7
117.5°	193.1	207.9	222.7	226.4	301.7	402.1	452.2	546.6	735.4	877.0	893.5
120°	205.9	219.9	233.8	237.3	306.1	397.9	443.8	530.1	702.6	831.9	848.0
122.5°	218.6	232.6	246.7	250.2	312.6	395.7	437.4	515.0	670.5	786.9	802.7
125°	237.9	250.6	263.5	266.7	321.2	394.0	430.4	496.4	628.4	727.3	741.8
127.5°	253.5	266.5	279.4	282.7	329.9	393.0	424.5	481.2	594.4	679.4	691.6
130°	262.0	275.9	289.8	293.3	336.3	393.6	422.3	472.7	573.6	649.3	660.6
132.5°	270.6	284.6	298.5	302.0	341.4	394.0	420.4	465.5	555.8	623.5	633.6
135°	283.5	296.2	308.8	312.0	347.0	393.7	417.0	454.8	530.4	587.1	595.9
137.5°	296.6	309.2	321.7	324.9	355.4	396.0	416.4	448.3	512.2	560.2	567.4
140°	307.6	319.2	330.7	333.6	360.5	396.5	414.5	442.1	497.3	538.7	545.4
142.5°	315.9	326.6	337.3	340.0	364.8	397.9	414.5	438.7	487.2	523.5	529.3
145°	328.8	338.2	347.5	349.8	370.5	397.9	411.7	431.5	471.1	500.9	505.3
147.5°	341.7	350.7	359.9	362.2	378.6	400.6	411.7	427.2	458.5	481.9	485.5
150°	350.1	358.4	366.5	368.6	383.0	402.1	411.7	424.9	451.2	471.0	473.9
152.5°	358.7	365.0	371.2	372.7	385.7	403.0	411.7	422.9	445.4	462.3	464.4
155°	371.7	376.3	380.8	382.0	391.8	405.1	411.7	420.6	438.6	451.9	453.4
157.5°	381.2	385.6	390.1	391.2	398.0	407.1	411.7	418.6	432.6	443.0	444.0
160°	387.6	391.0	394.5	395.4	400.8	408.0	411.7	417.6	429.6	438.6	439.1
162.5°	394.0	396.6	399.3	399.9	403.8	409.0	411.7	416.7	426.8	434.3	434.8
165°	401.0	403.3	405.7	406.3	408.1	410.5	411.7	415.3	422.4	427.9	428.5
167.5°	407.4	408.5	409.7	409.9	411.5	413.5	414.5	416.8	421.5	425.1	425.3
170°	411.7	412.8	413.9	414.2	414.3	414.4	414.5	416.8	421.5	425.1	425.1
172.5°	413.9	414.2	414.4	414.5	414.5	414.5	414.5	416.3	420.0	422.8	422.6
175°	417.0	417.0	417.0	417.0	416.2	415.0	414.5	415.6	418.0	419.7	419.7
177.5°	417.0	417.0	417.0	417.0	416.4	415.5	415.0	415.9	417.8	419.2	418.9
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1944.4	1939.0	1944.4	1940.8	1942.7	1937.2	1921.1	1915.7	1921.1	1926.5	1926.5
5°	1967.7	1964.1	1967.7	1967.7	1965.9	1962.3	1944.4	1940.8	1944.4	1946.2	1942.7
7.5°	1974.9	1969.5	1974.9	1971.4	1971.4	1967.7	1949.8	1946.2	1948.0	1953.3	1948.0
10°	1974.9	1969.5	1974.9	1973.1	1971.4	1967.7	1949.8	1942.7	1942.7	1948.0	1942.7
12.5°	1965.9	1962.3	1965.9	1962.3	1962.3	1958.8	1940.8	1933.6	1935.4	1937.2	1930.1
15°	1951.6	1946.2	1951.6	1948.0	1949.8	1944.4	1924.6	1917.5	1917.5	1921.1	1908.5
17.5°	1930.1	1922.9	1930.1	1928.3	1926.5	1922.9	1904.9	1897.8	1896.0	1897.8	1888.8
20°	1904.9	1899.6	1904.9	1903.2	1903.2	1896.0	1878.0	1869.1	1869.1	1869.1	1860.1
22.5°	1865.4	1860.1	1865.4	1869.1	1869.1	1867.3	1851.1	1838.6	1835.0	1835.0	1824.3
25°	1820.6	1815.3	1820.6	1820.6	1818.8	1820.6	1815.3	1808.1	1802.7	1797.3	1786.5
27.5°	1777.6	1774.0	1777.6	1774.0	1777.6	1772.2	1770.4	1768.6	1761.4	1756.1	1741.7
30°	1734.6	1730.9	1734.6	1730.9	1727.4	1723.8	1714.8	1711.2	1718.4	1714.8	1691.5
32.5°	1680.7	1677.2	1680.7	1680.7	1677.2	1677.2	1662.8	1657.4	1659.2	1669.9	1648.5
35°	1625.1	1619.7	1625.1	1623.3	1625.1	1619.7	1610.7	1609.0	1601.8	1614.4	1598.2
37.5°	1560.6	1555.2	1560.6	1560.6	1560.6	1564.1	1557.0	1551.5	1540.9	1557.0	1544.4
40°	1494.1	1487.0	1494.1	1492.4	1494.1	1497.8	1494.1	1490.6	1479.8	1492.4	1481.7
42.5°	1418.8	1417.0	1418.8	1420.7	1420.7	1427.8	1433.2	1426.0	1422.5	1413.5	1420.7
45°	1338.1	1334.6	1338.1	1341.7	1343.5	1347.1	1363.3	1363.3	1357.8	1343.5	1354.3
47.5°	1252.0	1243.1	1252.0	1262.8	1262.8	1268.1	1284.3	1296.8	1287.9	1269.9	1275.4
50°	1160.5	1162.3	1160.5	1167.7	1167.7	1187.5	1200.0	1212.6	1221.5	1200.0	1174.9
52.5°	1070.9	1069.1	1070.9	1076.2	1083.4	1092.3	1113.9	1126.5	1140.8	1128.3	1088.8
55°	981.2	984.7	981.2	983.0	986.5	992.0	1024.2	1036.8	1063.7	1047.5	1006.3
57.5°	891.5	886.1	891.5	895.1	896.8	902.3	929.1	952.5	968.6	970.4	920.2
60°	787.5	780.2	787.5	803.6	807.2	810.8	835.9	857.4	871.8	877.1	825.1
62.5°	696.0	683.4	696.0	706.7	713.9	722.9	740.8	773.1	785.7	787.5	713.9
65°	599.1	593.7	599.1	620.7	622.4	633.2	652.9	676.2	703.1	699.6	593.7
67.5°	511.2	511.2	511.2	525.5	536.3	541.7	566.8	577.6	611.7	615.2	495.0
70°	430.5	428.7	430.5	441.3	448.4	461.0	484.4	496.8	523.7	532.8	401.8
72.5°	353.4	351.6	353.4	362.3	369.5	380.3	400.0	414.4	437.6	448.4	312.1
75°	285.2	281.6	285.2	292.4	290.6	304.9	321.1	335.5	357.0	364.1	231.4
77.5°	218.9	218.9	218.9	226.0	226.0	240.3	247.6	265.5	278.1	288.7	170.4
80°	163.2	161.5	163.2	165.0	165.0	172.2	184.7	197.3	208.1	208.1	116.6
82.5°	114.8	111.2	114.8	114.8	114.8	118.4	125.5	129.2	136.3	141.7	73.5
85°	71.8	71.8	71.8	73.5	71.8	75.3	77.1	80.7	80.7	77.1	44.8
87.5°	46.6	44.8	46.6	44.8	44.8	43.1	43.1	43.1	41.3	39.5	25.1
90°	10.6	10.6	10.6	10.6	10.6	14.1	18.9	21.3	18.3	12.3	7.9
92.5°	42.5	34.1	42.5	51.1	53.1	75.3	104.9	119.8	105.2	75.9	54.0
95°	148.4	122.8	148.4	174.1	180.5	237.1	312.5	350.1	295.7	186.8	105.2
97.5°	355.7	307.0	355.7	404.4	416.6	452.4	500.1	523.9	433.2	251.7	115.6
100°	512.6	454.5	512.6	570.7	585.2	582.6	579.0	577.3	476.7	275.3	124.3
102.5°	666.8	617.0	666.8	716.6	729.0	683.5	622.8	592.4	490.3	286.1	133.0
105°	863.5	836.7	863.5	890.2	896.9	794.8	658.8	590.7	491.9	294.1	145.8
107.5°	992.2	998.8	992.2	985.8	984.2	841.8	652.0	557.1	470.0	295.6	164.8
110°	1041.4	1069.3	1041.4	1013.6	1006.6	847.5	635.2	529.2	450.6	293.4	175.4





TEST NUMBER: P934463

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1045.8	1088.5	1045.8	1003.0	992.3	829.5	612.3	503.7	433.7	293.5	188.4
115°	1018.0	1077.4	1018.0	958.7	943.9	787.0	577.9	473.2	414.2	296.2	207.6
117.5°	959.3	1025.1	959.3	893.5	877.0	735.4	546.6	452.2	402.1	301.7	226.4
120°	911.9	975.9	911.9	848.0	831.9	702.6	530.1	443.8	397.9	306.1	237.3
122.5°	865.8	928.8	865.8	802.7	786.9	670.5	515.0	437.4	395.7	312.6	250.2
125°	799.9	858.0	799.9	741.8	727.3	628.4	496.4	430.4	394.0	321.2	266.7
127.5°	740.7	789.8	740.7	691.6	679.4	594.4	481.2	424.5	393.0	329.9	282.7
130°	705.8	751.1	705.8	660.6	649.3	573.6	472.7	422.3	393.6	336.3	293.3
132.5°	674.2	714.7	674.2	633.6	623.5	555.8	465.5	420.4	394.0	341.4	302.0
135°	630.8	665.7	630.8	595.9	587.1	530.4	454.8	417.0	393.7	347.0	312.0
137.5°	596.0	624.7	596.0	567.4	560.2	512.2	448.3	416.4	396.0	355.4	324.9
140°	572.1	598.9	572.1	545.4	538.7	497.3	442.1	414.5	396.5	360.5	333.6
142.5°	552.3	575.3	552.3	529.3	523.5	487.2	438.7	414.5	397.9	364.8	340.0
145°	522.7	540.1	522.7	505.3	500.9	471.1	431.5	411.7	397.9	370.5	349.8
147.5°	499.9	514.3	499.9	485.5	481.9	458.5	427.2	411.7	400.6	378.6	362.2
150°	485.6	497.3	485.6	473.9	471.0	451.2	424.9	411.7	402.1	383.0	368.6
152.5°	473.3	482.2	473.3	464.4	462.3	445.4	422.9	411.7	403.0	385.7	372.7
155°	459.3	465.1	459.3	453.4	451.9	438.6	420.6	411.7	405.1	391.8	382.0
157.5°	448.1	452.2	448.1	444.0	443.0	432.6	418.6	411.7	407.1	398.0	391.2
160°	441.4	443.8	441.4	439.1	438.6	429.6	417.6	411.7	408.0	400.8	395.4
162.5°	437.1	439.4	437.1	434.8	434.3	426.8	416.7	411.7	409.0	403.8	399.9
165°	430.9	433.2	430.9	428.5	427.9	422.4	415.3	411.7	410.5	408.1	406.3
167.5°	426.3	427.3	426.3	425.3	425.1	421.5	416.8	414.5	413.5	411.5	409.9
170°	425.1	425.1	425.1	425.1	425.1	421.5	416.8	414.5	414.4	414.3	414.2
172.5°	421.7	420.9	421.7	422.6	422.8	420.0	416.3	414.5	414.5	414.5	414.5
175°	419.7	419.7	419.7	419.7	419.7	418.0	415.6	414.5	415.0	416.2	417.0
177.5°	418.0	417.0	418.0	418.9	419.2	417.8	415.9	415.0	415.5	416.4	417.0
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



TEST NUMBER: P934463

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1922.9	1912.2	1912.2	1894.1	1887.0	1881.6	1872.7	1845.7	1838.6	1831.4	1842.2
5°	1939.0	1919.3	1904.9	1872.7	1845.7	1835.0	1800.9	1736.4	1693.3	1661.0	1643.0
7.5°	1942.7	1917.5	1890.6	1840.4	1775.8	1747.1	1643.0	1524.7	1492.4	1463.6	1445.7
10°	1939.0	1910.3	1872.7	1797.3	1644.9	1594.6	1490.6	1413.5	1393.8	1388.3	1393.8
12.5°	1926.5	1899.6	1847.5	1722.0	1508.5	1474.4	1413.5	1368.6	1365.1	1374.0	1422.5
15°	1904.9	1879.8	1818.8	1621.5	1433.2	1408.1	1365.1	1348.9	1368.6	1431.4	1576.7
17.5°	1883.5	1854.7	1779.4	1522.8	1375.8	1357.8	1327.3	1359.6	1470.9	1555.2	1603.6
20°	1854.7	1820.6	1734.6	1451.2	1334.6	1318.4	1304.1	1449.3	1533.6	1564.1	1591.0
22.5°	1820.6	1784.8	1673.6	1400.9	1291.5	1278.9	1287.9	1499.6	1533.6	1555.2	1578.5
25°	1775.8	1745.3	1601.8	1361.5	1257.4	1243.1	1277.2	1494.1	1513.9	1519.3	1565.9
27.5°	1734.6	1695.1	1526.5	1325.6	1216.2	1210.7	1286.1	1470.9	1485.2	1490.6	1540.9
30°	1684.3	1625.1	1442.2	1287.9	1173.1	1171.3	1287.9	1442.2	1438.6	1453.0	1503.1
32.5°	1632.3	1521.1	1347.1	1241.2	1131.8	1130.1	1275.4	1399.1	1395.5	1415.2	1453.0
35°	1583.9	1440.4	1218.0	1187.5	1079.9	1081.6	1244.9	1348.9	1350.7	1368.6	1392.0
37.5°	1533.6	1370.4	1076.2	1128.3	1029.6	1029.6	1203.6	1302.3	1298.6	1304.1	1336.3
40°	1474.4	1261.0	950.7	1051.2	983.0	977.6	1153.4	1252.0	1239.4	1237.7	1282.5
42.5°	1411.7	1140.8	857.4	948.9	929.1	922.0	1092.3	1191.0	1167.7	1173.1	1230.5
45°	1343.5	1108.6	785.7	801.8	873.6	868.1	1026.0	1121.0	1104.9	1119.3	1178.5
47.5°	1275.4	1043.9	762.3	665.5	814.4	812.6	952.5	1052.9	1043.9	1058.3	1121.0
50°	1182.0	972.2	760.5	570.4	748.0	755.2	864.6	986.5	986.5	999.1	1065.5
52.5°	1061.8	884.3	690.5	516.6	670.8	692.4	787.5	929.1	932.8	945.3	1004.5
55°	952.5	792.8	640.4	475.3	579.4	626.0	712.1	870.0	877.1	889.7	943.5
57.5°	852.0	660.1	629.6	426.9	495.0	539.9	645.7	812.6	816.2	827.0	878.9
60°	744.4	477.1	577.6	374.9	421.5	455.6	584.7	744.4	757.0	764.1	808.9
62.5°	622.4	346.2	523.7	339.0	385.7	392.8	534.5	679.9	696.0	701.3	728.3
65°	443.1	290.6	444.9	308.5	347.9	349.8	480.7	613.4	627.8	636.8	656.5
67.5°	299.5	236.8	339.0	279.8	319.3	321.1	428.7	536.3	556.0	563.2	575.8
70°	208.1	157.9	251.1	249.4	287.0	290.6	373.1	466.3	484.4	489.7	496.8
72.5°	152.4	127.4	208.1	224.2	252.9	256.5	315.7	387.4	405.4	410.8	414.4
75°	116.6	134.5	168.6	195.5	215.2	217.1	258.3	315.7	328.2	331.8	333.6
77.5°	93.2	125.5	123.7	157.9	175.8	172.2	202.7	243.9	254.7	254.7	254.7
80°	70.0	98.7	93.2	113.0	129.2	125.5	145.3	174.0	177.6	181.1	179.4
82.5°	52.0	62.8	62.8	71.8	86.1	82.6	96.9	113.0	113.0	113.0	116.6
85°	32.3	35.8	28.7	37.7	48.4	46.6	53.9	61.0	62.8	62.8	59.2
87.5°	19.7	16.1	9.0	14.4	21.5	21.5	25.1	26.9	25.1	25.1	25.1
90°	7.3	5.1	2.8	5.1	7.3	7.9	12.3	18.3	21.3	18.9	14.1
92.5°	49.2	30.2	11.2	30.2	49.2	54.0	75.9	105.2	119.8	104.9	75.3
95°	96.5	61.6	26.9	61.6	96.5	105.2	186.8	295.7	350.1	312.5	237.1
97.5°	107.9	77.2	46.4	77.2	107.9	115.6	251.7	433.2	523.9	500.1	452.4
100°	117.3	89.4	61.6	89.4	117.3	124.3	275.3	476.7	577.3	579.0	582.6
102.5°	126.5	100.5	74.4	100.5	126.5	133.0	286.1	490.3	592.4	622.8	683.5
105°	140.3	118.3	96.3	118.3	140.3	145.8	294.1	491.9	590.7	658.8	794.8
107.5°	159.7	139.2	118.7	139.2	159.7	164.8	295.6	470.0	557.1	652.0	841.8
110°	170.8	152.2	133.8	152.2	170.8	175.4	293.4	450.6	529.2	635.2	847.5



TEST NUMBER: P934463

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	183.9	166.3	148.6	166.3	183.9	188.4	293.5	433.7	503.7	612.3	829.5
115°	203.6	187.3	171.0	187.3	203.6	207.6	296.2	414.2	473.2	577.9	787.0
117.5°	222.7	207.9	193.1	207.9	222.7	226.4	301.7	402.1	452.2	546.6	735.4
120°	233.8	219.9	205.9	219.9	233.8	237.3	306.1	397.9	443.8	530.1	702.6
122.5°	246.7	232.6	218.6	232.6	246.7	250.2	312.6	395.7	437.4	515.0	670.5
125°	263.5	250.6	237.9	250.6	263.5	266.7	321.2	394.0	430.4	496.4	628.4
127.5°	279.4	266.5	253.5	266.5	279.4	282.7	329.9	393.0	424.5	481.2	594.4
130°	289.8	275.9	262.0	275.9	289.8	293.3	336.3	393.6	422.3	472.7	573.6
132.5°	298.5	284.6	270.6	284.6	298.5	302.0	341.4	394.0	420.4	465.5	555.8
135°	308.8	296.2	283.5	296.2	308.8	312.0	347.0	393.7	417.0	454.8	530.4
137.5°	321.7	309.2	296.6	309.2	321.7	324.9	355.4	396.0	416.4	448.3	512.2
140°	330.7	319.2	307.6	319.2	330.7	333.6	360.5	396.5	414.5	442.1	497.3
142.5°	337.3	326.6	315.9	326.6	337.3	340.0	364.8	397.9	414.5	438.7	487.2
145°	347.5	338.2	328.8	338.2	347.5	349.8	370.5	397.9	411.7	431.5	471.1
147.5°	359.9	350.7	341.7	350.7	359.9	362.2	378.6	400.6	411.7	427.2	458.5
150°	366.5	358.4	350.1	358.4	366.5	368.6	383.0	402.1	411.7	424.9	451.2
152.5°	371.2	365.0	358.7	365.0	371.2	372.7	385.7	403.0	411.7	422.9	445.4
155°	380.8	376.3	371.7	376.3	380.8	382.0	391.8	405.1	411.7	420.6	438.6
157.5°	390.1	385.6	381.2	385.6	390.1	391.2	398.0	407.1	411.7	418.6	432.6
160°	394.5	391.0	387.6	391.0	394.5	395.4	400.8	408.0	411.7	417.6	429.6
162.5°	399.3	396.6	394.0	396.6	399.3	399.9	403.8	409.0	411.7	416.7	426.8
165°	405.7	403.3	401.0	403.3	405.7	406.3	408.1	410.5	411.7	415.3	422.4
167.5°	409.7	408.5	407.4	408.5	409.7	409.9	411.5	413.5	414.5	416.8	421.5
170°	413.9	412.8	411.7	412.8	413.9	414.2	414.3	414.4	414.5	416.8	421.5
172.5°	414.4	414.2	413.9	414.2	414.4	414.5	414.5	414.5	414.5	416.3	420.0
175°	417.0	417.0	417.0	417.0	417.0	417.0	416.2	415.0	414.5	415.6	418.0
177.5°	417.0	417.0	417.0	417.0	417.0	417.0	416.4	415.5	415.0	415.9	417.8
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



TEST NUMBER: P934463

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1829.6	1824.3	1831.4	1811.7	1831.4	1824.3	1829.6	1842.2	1831.4	1838.6	1845.7
5°	1605.4	1596.4	1567.7	1544.4	1567.7	1596.4	1605.4	1643.0	1661.0	1693.3	1736.4
7.5°	1435.0	1427.8	1420.7	1406.3	1420.7	1427.8	1435.0	1445.7	1463.6	1492.4	1524.7
10°	1397.3	1399.1	1409.9	1408.1	1409.9	1399.1	1397.3	1393.8	1388.3	1393.8	1413.5
12.5°	1494.1	1510.4	1569.5	1565.9	1569.5	1510.4	1494.1	1422.5	1374.0	1365.1	1368.6
15°	1605.4	1610.7	1623.3	1625.1	1623.3	1610.7	1605.4	1576.7	1431.4	1368.6	1348.9
17.5°	1616.2	1618.0	1626.9	1626.9	1626.9	1618.0	1616.2	1603.6	1555.2	1470.9	1359.6
20°	1607.2	1610.7	1628.7	1632.3	1628.7	1610.7	1607.2	1591.0	1564.1	1533.6	1449.3
22.5°	1603.6	1610.7	1625.1	1623.3	1625.1	1610.7	1603.6	1578.5	1555.2	1533.6	1499.6
25°	1585.7	1585.7	1587.5	1589.3	1587.5	1585.7	1585.7	1565.9	1519.3	1513.9	1494.1
27.5°	1548.0	1551.5	1562.3	1560.6	1562.3	1551.5	1548.0	1540.9	1490.6	1485.2	1470.9
30°	1513.9	1510.4	1501.4	1494.1	1501.4	1510.4	1513.9	1503.1	1453.0	1438.6	1442.2
32.5°	1456.5	1447.5	1438.6	1433.2	1438.6	1447.5	1456.5	1453.0	1415.2	1395.5	1399.1
35°	1388.3	1390.1	1388.3	1383.0	1388.3	1390.1	1388.3	1392.0	1368.6	1350.7	1348.9
37.5°	1339.9	1343.5	1341.7	1334.6	1341.7	1343.5	1339.9	1336.3	1304.1	1298.6	1302.3
40°	1289.7	1291.5	1289.7	1284.3	1289.7	1291.5	1289.7	1282.5	1237.7	1239.4	1252.0
42.5°	1241.2	1239.4	1234.1	1230.5	1234.1	1239.4	1241.2	1230.5	1173.1	1167.7	1191.0
45°	1185.7	1187.5	1176.7	1171.3	1176.7	1187.5	1185.7	1178.5	1119.3	1104.9	1121.0
47.5°	1130.1	1130.1	1121.0	1115.7	1121.0	1130.1	1130.1	1121.0	1058.3	1043.9	1052.9
50°	1070.9	1069.1	1056.5	1054.7	1056.5	1069.1	1070.9	1065.5	999.1	986.5	986.5
52.5°	1002.7	1002.7	1004.5	1008.1	1004.5	1002.7	1002.7	1004.5	945.3	932.8	929.1
55°	943.5	945.3	957.8	961.5	957.8	945.3	943.5	943.5	889.7	877.1	870.0
57.5°	882.5	882.5	891.5	891.5	891.5	882.5	882.5	878.9	827.0	816.2	812.6
60°	812.6	816.2	823.3	821.5	823.3	816.2	812.6	808.9	764.1	757.0	744.4
62.5°	739.0	742.6	744.4	740.8	744.4	742.6	739.0	728.3	701.3	696.0	679.9
65°	661.9	665.5	667.3	663.7	667.3	665.5	661.9	656.5	636.8	627.8	613.4
67.5°	582.9	581.2	579.4	586.5	579.4	581.2	582.9	575.8	563.2	556.0	536.3
70°	502.3	502.3	500.5	504.0	500.5	502.3	502.3	496.8	489.7	484.4	466.3
72.5°	416.1	414.4	421.5	416.1	421.5	414.4	416.1	414.4	410.8	405.4	387.4
75°	331.8	335.5	331.8	337.3	331.8	335.5	331.8	333.6	331.8	328.2	315.7
77.5°	252.9	256.5	252.9	252.9	252.9	256.5	252.9	254.7	254.7	254.7	243.9
80°	179.4	177.6	177.6	175.8	177.6	177.6	179.4	179.4	181.1	177.6	174.0
82.5°	114.8	113.0	113.0	116.6	113.0	113.0	114.8	116.6	113.0	113.0	113.0
85°	62.8	64.5	61.0	61.0	61.0	64.5	62.8	59.2	62.8	62.8	61.0
87.5°	23.4	21.5	21.5	21.5	21.5	21.5	23.4	25.1	25.1	25.1	26.9
90°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	14.1	18.9	21.3	18.3
92.5°	53.1	51.1	42.5	34.1	42.5	51.1	53.1	75.3	104.9	119.8	105.2
95°	180.5	174.1	148.4	122.8	148.4	174.1	180.5	237.1	312.5	350.1	295.7
97.5°	416.6	404.4	355.7	307.0	355.7	404.4	416.6	452.4	500.1	523.9	433.2
100°	585.2	570.7	512.6	454.5	512.6	570.7	585.2	582.6	579.0	577.3	476.7
102.5°	729.0	716.6	666.8	617.0	666.8	716.6	729.0	683.5	622.8	592.4	490.3
105°	896.9	890.2	863.5	836.7	863.5	890.2	896.9	794.8	658.8	590.7	491.9
107.5°	984.2	985.8	992.2	998.8	992.2	985.8	984.2	841.8	652.0	557.1	470.0
110°	1006.6	1013.6	1041.4	1069.3	1041.4	1013.6	1006.6	847.5	635.2	529.2	450.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	992.3	1003.0	1045.8	1088.5	1045.8	1003.0	992.3	829.5	612.3	503.7	433.7
115°	943.9	958.7	1018.0	1077.4	1018.0	958.7	943.9	787.0	577.9	473.2	414.2
117.5°	877.0	893.5	959.3	1025.1	959.3	893.5	877.0	735.4	546.6	452.2	402.1
120°	831.9	848.0	911.9	975.9	911.9	848.0	831.9	702.6	530.1	443.8	397.9
122.5°	786.9	802.7	865.8	928.8	865.8	802.7	786.9	670.5	515.0	437.4	395.7
125°	727.3	741.8	799.9	858.0	799.9	741.8	727.3	628.4	496.4	430.4	394.0
127.5°	679.4	691.6	740.7	789.8	740.7	691.6	679.4	594.4	481.2	424.5	393.0
130°	649.3	660.6	705.8	751.1	705.8	660.6	649.3	573.6	472.7	422.3	393.6
132.5°	623.5	633.6	674.2	714.7	674.2	633.6	623.5	555.8	465.5	420.4	394.0
135°	587.1	595.9	630.8	665.7	630.8	595.9	587.1	530.4	454.8	417.0	393.7
137.5°	560.2	567.4	596.0	624.7	596.0	567.4	560.2	512.2	448.3	416.4	396.0
140°	538.7	545.4	572.1	598.9	572.1	545.4	538.7	497.3	442.1	414.5	396.5
142.5°	523.5	529.3	552.3	575.3	552.3	529.3	523.5	487.2	438.7	414.5	397.9
145°	500.9	505.3	522.7	540.1	522.7	505.3	500.9	471.1	431.5	411.7	397.9
147.5°	481.9	485.5	499.9	514.3	499.9	485.5	481.9	458.5	427.2	411.7	400.6
150°	471.0	473.9	485.6	497.3	485.6	473.9	471.0	451.2	424.9	411.7	402.1
152.5°	462.3	464.4	473.3	482.2	473.3	464.4	462.3	445.4	422.9	411.7	403.0
155°	451.9	453.4	459.3	465.1	459.3	453.4	451.9	438.6	420.6	411.7	405.1
157.5°	443.0	444.0	448.1	452.2	448.1	444.0	443.0	432.6	418.6	411.7	407.1
160°	438.6	439.1	441.4	443.8	441.4	439.1	438.6	429.6	417.6	411.7	408.0
162.5°	434.3	434.8	437.1	439.4	437.1	434.8	434.3	426.8	416.7	411.7	409.0
165°	427.9	428.5	430.9	433.2	430.9	428.5	427.9	422.4	415.3	411.7	410.5
167.5°	425.1	425.3	426.3	427.3	426.3	425.3	425.1	421.5	416.8	414.5	413.5
170°	425.1	425.1	425.1	425.1	425.1	425.1	425.1	421.5	416.8	414.5	414.4
172.5°	422.8	422.6	421.7	420.9	421.7	422.6	422.8	420.0	416.3	414.5	414.5
175°	419.7	419.7	419.7	419.7	419.7	419.7	419.7	418.0	415.6	414.5	415.0
177.5°	419.2	418.9	418.0	417.0	418.0	418.9	419.2	417.8	415.9	415.0	415.5
180°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1872.7	1881.6	1887.0	1894.1	1912.2
5°	1800.9	1835.0	1845.7	1872.7	1904.9
7.5°	1643.0	1747.1	1775.8	1840.4	1890.6
10°	1490.6	1594.6	1644.9	1797.3	1872.7
12.5°	1413.5	1474.4	1508.5	1722.0	1847.5
15°	1365.1	1408.1	1433.2	1621.5	1818.8
17.5°	1327.3	1357.8	1375.8	1522.8	1779.4
20°	1304.1	1318.4	1334.6	1451.2	1734.6
22.5°	1287.9	1278.9	1291.5	1400.9	1673.6
25°	1277.2	1243.1	1257.4	1361.5	1601.8
27.5°	1286.1	1210.7	1216.2	1325.6	1526.5
30°	1287.9	1171.3	1173.1	1287.9	1442.2
32.5°	1275.4	1130.1	1131.8	1241.2	1347.1
35°	1244.9	1081.6	1079.9	1187.5	1218.0
37.5°	1203.6	1029.6	1029.6	1128.3	1076.2
40°	1153.4	977.6	983.0	1051.2	950.7
42.5°	1092.3	922.0	929.1	948.9	857.4
45°	1026.0	868.1	873.6	801.8	785.7
47.5°	952.5	812.6	814.4	665.5	762.3
50°	864.6	755.2	748.0	570.4	760.5
52.5°	787.5	692.4	670.8	516.6	690.5
55°	712.1	626.0	579.4	475.3	640.4
57.5°	645.7	539.9	495.0	426.9	629.6
60°	584.7	455.6	421.5	374.9	577.6
62.5°	534.5	392.8	385.7	339.0	523.7
65°	480.7	349.8	347.9	308.5	444.9
67.5°	428.7	321.1	319.3	279.8	339.0
70°	373.1	290.6	287.0	249.4	251.1
72.5°	315.7	256.5	252.9	224.2	208.1
75°	258.3	217.1	215.2	195.5	168.6
77.5°	202.7	172.2	175.8	157.9	123.7
80°	145.3	125.5	129.2	113.0	93.2
82.5°	96.9	82.6	86.1	71.8	62.8
85°	53.9	46.6	48.4	37.7	28.7
87.5°	25.1	21.5	21.5	14.4	9.0
90°	12.3	7.9	7.3	5.1	2.8
92.5°	75.9	54.0	49.2	30.2	11.2
95°	186.8	105.2	96.5	61.6	26.9
97.5°	251.7	115.6	107.9	77.2	46.4
100°	275.3	124.3	117.3	89.4	61.6
102.5°	286.1	133.0	126.5	100.5	74.4
105°	294.1	145.8	140.3	118.3	96.3
107.5°	295.6	164.8	159.7	139.2	118.7
110°	293.4	175.4	170.8	152.2	133.8



TEST NUMBER: P934463

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	293.5	188.4	183.9	166.3	148.6
115°	296.2	207.6	203.6	187.3	171.0
117.5°	301.7	226.4	222.7	207.9	193.1
120°	306.1	237.3	233.8	219.9	205.9
122.5°	312.6	250.2	246.7	232.6	218.6
125°	321.2	266.7	263.5	250.6	237.9
127.5°	329.9	282.7	279.4	266.5	253.5
130°	336.3	293.3	289.8	275.9	262.0
132.5°	341.4	302.0	298.5	284.6	270.6
135°	347.0	312.0	308.8	296.2	283.5
137.5°	355.4	324.9	321.7	309.2	296.6
140°	360.5	333.6	330.7	319.2	307.6
142.5°	364.8	340.0	337.3	326.6	315.9
145°	370.5	349.8	347.5	338.2	328.8
147.5°	378.6	362.2	359.9	350.7	341.7
150°	383.0	368.6	366.5	358.4	350.1
152.5°	385.7	372.7	371.2	365.0	358.7
155°	391.8	382.0	380.8	376.3	371.7
157.5°	398.0	391.2	390.1	385.6	381.2
160°	400.8	395.4	394.5	391.0	387.6
162.5°	403.8	399.9	399.3	396.6	394.0
165°	408.1	406.3	405.7	403.3	401.0
167.5°	411.5	409.9	409.7	408.5	407.4
170°	414.3	414.2	413.9	412.8	411.7
172.5°	414.5	414.5	414.4	414.2	413.9
175°	416.2	417.0	417.0	417.0	417.0
177.5°	416.4	417.0	417.0	417.0	417.0
180°	417.0	417.0	417.0	417.0	417.0



TEST NUMBER: P934463  
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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	14.60	15.61	15.42	16.45	17.50	17.42	18.43	18.24	19.28	20.32
	3H	15.09	15.99	15.92	16.85	17.92	18.78	19.68	19.61	20.54	21.61
	4H	15.29	16.14	16.14	17.00	18.09	19.23	20.08	20.08	20.94	22.03
	6H	15.41	16.20	16.28	17.07	18.17	19.52	20.31	20.38	21.18	22.28
	8H	15.42	16.17	16.29	17.05	18.15	19.60	20.35	20.47	21.23	22.33
	12H	15.39	16.11	16.27	16.99	18.11	19.64	20.36	20.52	21.24	22.36
4H	2H	15.65	16.50	16.50	17.36	18.45	17.85	18.71	18.71	19.57	20.65
	3H	16.69	17.40	17.56	18.29	19.40	19.37	20.08	20.24	20.97	22.08
	4H	16.97	17.62	17.85	18.51	19.64	19.90	20.55	20.78	21.44	22.57
	6H	17.11	17.67	18.00	18.58	19.71	20.27	20.83	21.17	21.75	22.88
	8H	17.11	17.64	18.01	18.55	19.69	20.38	20.91	21.28	21.82	22.96
	12H	17.09	17.56	18.01	18.49	19.64	20.45	20.92	21.36	21.85	23.00
8H	4H	17.44	17.96	18.33	18.87	20.01	20.04	20.56	20.94	21.47	22.61
	6H	17.70	18.14	18.63	19.09	20.23	20.48	20.91	21.40	21.86	23.01
	8H	17.75	18.13	18.68	19.07	20.23	20.63	21.02	21.57	21.96	23.12
	12H	17.74	18.08	18.68	19.01	20.22	20.74	21.07	21.67	22.01	23.22
12H	4H	17.45	17.92	18.37	18.85	20.00	20.01	20.48	20.93	21.41	22.56
	6H	17.77	18.15	18.70	19.09	20.25	20.48	20.86	21.41	21.80	22.97
	8H	17.84	18.18	18.78	19.11	20.32	20.65	20.98	21.58	21.92	23.13