

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: P934462

Luminaire Tested: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934462
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-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

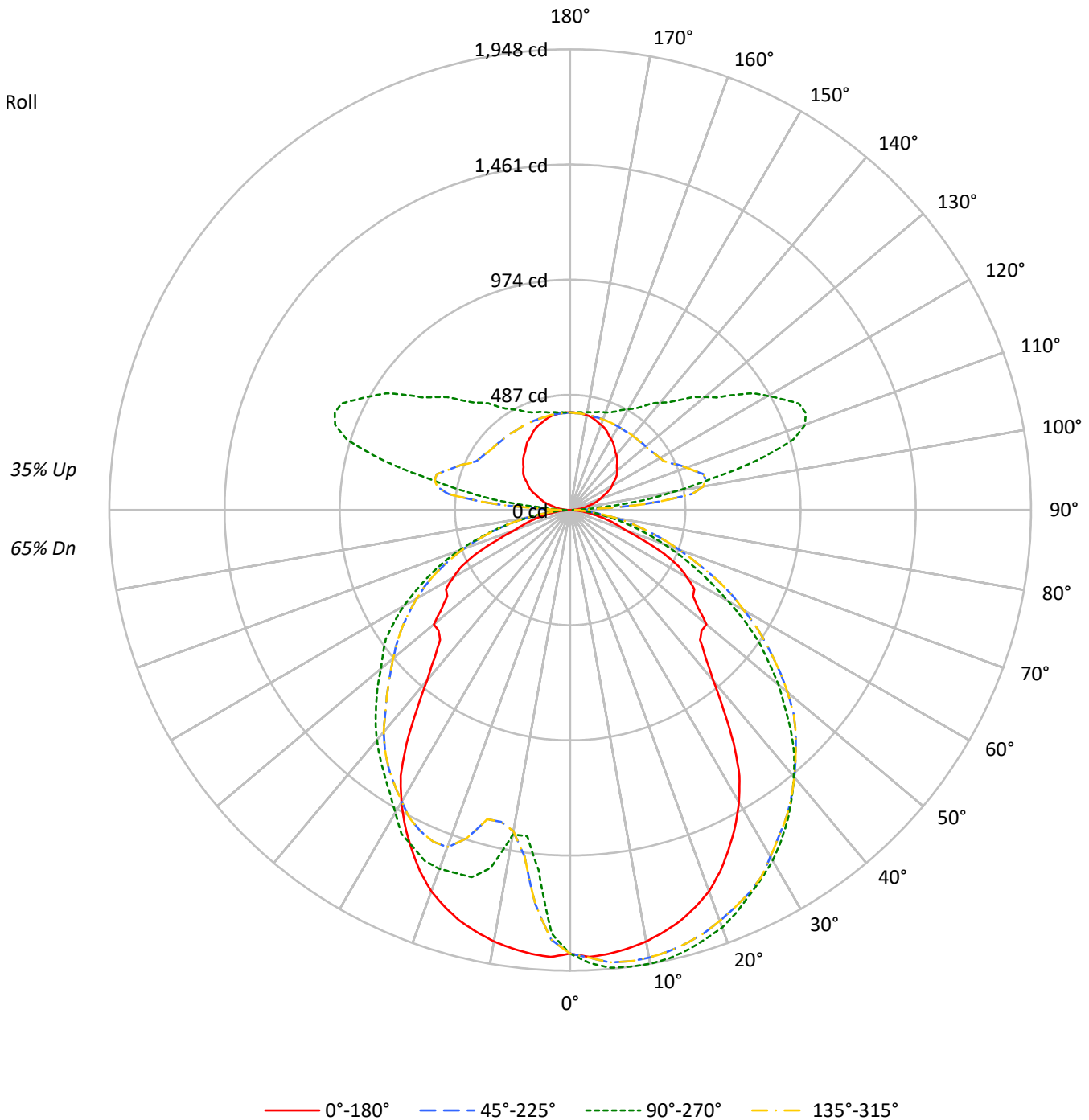
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7537.6 lumens
Efficiency: N/A
Efficacy: 111.2 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	59	59	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	50	50	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	42	42	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	36	36	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	32	32	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	28	28	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	25	25	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	20	20	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11601	11601	11601	11601
5°	11683	11710	11683	9208
10°	11601	11536	11601	8247
15°	11470	11286	11470	9424
20°	11227	10990	11227	9443
25°	10731	10558	10731	9244
30°	10093	10199	10093	8804
35°	8993	9746	8993	8321
40°	7489	9212	7489	7957
45°	6687	8587	6687	7536
50°	7098	7842	7098	7116
55°	6673	7039	6673	6872
60°	6870	5978	6870	6294
65°	6218	4941	6218	5524
70°	4296	3938	4296	4630
75°	3753	2911	3753	3487
80°	3001	1925	3001	2096
85°	1693	1020	1693	866

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10256 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	2.2
10°-20°	480.6	6.4
20°-30°	743.0	9.9
30°-40°	887.0	11.8
40°-50°	892.2	11.8
50°-60°	776.3	10.3
60°-70°	550.4	7.3
70°-80°	291.2	3.9
80°-90°	74.1	1.0
90°-100°	201.0	2.7
100°-110°	528.5	7.0
110°-120°	548.0	7.3
120°-130°	439.6	5.8
130°-140°	344.9	4.6
140°-150°	264.7	3.5
150°-160°	190.7	2.5
160°-170°	116.7	1.5
170°-180°	39.4	0.5
0°-30°	1392.9	18.5
0°-40°	2279.9	30.2
0°-60°	3948.3	52.4
0°-90°	4864.0	64.5
90°-120°	1277.6	17.0
90°-150°	2326.9	30.9
90°-180°	2674.0	35.5
0°-180°	7537.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1875	1875	1875	1875	1875	
5°	1884	1943	1884	1528	1884	179
15°	1799	1925	1799	1607	1799	506
25°	1584	1796	1584	1572	1584	727
35°	1205	1602	1205	1368	1205	745
45°	777	1320	777	1158	777	622
55°	633	974	633	951	633	582
65°	440	587	440	656	440	421
75°	167	278	167	334	167	175
85°	28	71	28	60	28	38
90°	3	10	3	10	3	4
95°	27	122	27	122	27	30
105°	95	828	95	828	95	101
115°	169	1066	169	1066	169	167
125°	235	849	235	849	235	209
135°	280	658	280	658	280	217
145°	325	534	325	534	325	204
155°	368	460	368	460	368	169
165°	397	428	397	428	397	112
175°	412	415	412	415	412	39
180°	412	412	412	412	412	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1891.3	1891.3	1902.0	1905.5	1905.5	1900.2	1894.8	1900.2	1916.1	1921.5	1919.7
5°	1884.2	1898.4	1917.9	1921.5	1925.0	1923.2	1919.7	1923.2	1940.9	1944.5	1946.3
7.5°	1870.0	1896.6	1921.5	1926.8	1932.1	1926.8	1925.0	1928.6	1946.3	1949.9	1949.9
10°	1852.3	1889.6	1917.9	1921.5	1926.8	1921.5	1921.5	1928.6	1946.3	1949.9	1951.6
12.5°	1827.4	1878.9	1905.5	1909.1	1916.1	1914.4	1912.6	1919.7	1937.5	1940.9	1940.9
15°	1799.0	1859.4	1884.2	1887.8	1900.2	1896.6	1896.6	1903.7	1923.2	1928.6	1926.8
17.5°	1760.0	1834.5	1863.0	1868.2	1877.1	1875.3	1877.1	1884.2	1902.0	1905.5	1907.3
20°	1715.7	1800.8	1834.5	1839.9	1848.7	1848.7	1848.7	1857.6	1875.3	1882.5	1882.5
22.5°	1655.3	1765.4	1800.8	1804.4	1815.1	1815.1	1818.6	1831.0	1846.9	1848.7	1848.7
25°	1584.3	1726.3	1756.5	1767.1	1777.7	1783.1	1788.4	1795.5	1800.8	1799.0	1800.8
27.5°	1509.9	1676.7	1715.7	1722.8	1737.0	1742.3	1749.4	1751.1	1752.9	1758.2	1754.7
30°	1426.5	1607.4	1666.0	1673.1	1696.2	1699.7	1692.6	1696.2	1705.0	1708.6	1712.1
32.5°	1332.4	1504.6	1614.5	1630.5	1651.8	1641.1	1639.4	1644.7	1658.9	1658.9	1662.4
35°	1204.7	1424.7	1566.6	1580.9	1596.8	1584.3	1591.5	1593.2	1602.1	1607.4	1605.7
37.5°	1064.5	1355.5	1516.9	1527.6	1540.0	1524.1	1534.7	1540.0	1547.1	1543.6	1543.6
40°	940.3	1247.3	1458.4	1465.5	1476.2	1463.7	1474.4	1477.9	1481.5	1477.9	1476.2
42.5°	848.0	1128.4	1396.3	1405.2	1398.1	1407.0	1410.5	1417.6	1412.3	1405.2	1405.2
45°	777.1	1096.5	1328.9	1339.6	1328.9	1343.1	1348.4	1348.4	1332.4	1328.9	1327.1
47.5°	754.0	1032.6	1261.5	1261.5	1256.1	1273.8	1282.7	1270.4	1254.3	1249.0	1249.0
50°	752.2	961.7	1169.2	1162.1	1186.9	1208.2	1199.4	1186.9	1174.6	1155.0	1155.0
52.5°	683.0	874.7	1050.3	1077.0	1116.0	1128.4	1114.2	1101.8	1080.5	1071.6	1064.5
55°	633.4	784.2	942.1	995.3	1036.1	1052.1	1025.5	1013.0	981.2	975.8	972.3
57.5°	622.8	653.0	842.8	910.2	959.9	958.1	942.1	919.0	892.4	887.1	885.4
60°	571.3	471.9	736.3	816.2	867.6	862.3	848.0	826.8	801.9	798.4	794.9
62.5°	518.0	342.5	615.6	706.1	778.9	777.1	764.7	732.7	715.0	706.1	699.1
65°	440.0	287.4	438.3	587.2	692.0	695.5	668.9	645.8	626.3	615.6	613.9
67.5°	335.3	234.2	296.3	489.6	608.5	605.1	571.3	560.6	535.8	530.5	519.8
70°	248.4	156.1	205.8	397.4	527.0	518.0	491.4	479.1	456.0	443.5	436.5
72.5°	205.8	126.0	150.8	308.7	443.5	432.9	409.9	395.6	376.1	365.5	358.4
75°	166.8	133.0	115.3	228.8	360.2	353.1	331.8	317.6	301.6	287.4	289.2
77.5°	122.4	124.2	92.2	168.6	285.6	275.0	262.6	244.9	237.7	223.6	223.6
80°	92.2	97.6	69.2	115.3	205.8	205.8	195.2	182.7	170.3	163.2	163.2
82.5°	62.1	62.1	51.5	72.7	140.2	134.8	127.8	124.2	117.1	113.5	113.5
85°	28.4	35.5	32.0	44.3	76.3	79.9	79.9	76.3	74.5	71.0	72.7
87.5°	8.9	15.9	19.5	24.8	39.0	40.8	42.6	42.6	42.6	44.3	44.3
90°	2.8	5.0	7.3	7.8	12.2	18.1	21.0	18.7	14.0	10.5	10.5
92.5°	11.1	29.9	48.7	53.5	75.1	104.0	118.4	103.8	74.5	52.6	50.5
95°	26.6	61.0	95.4	104.0	184.8	292.5	346.3	309.1	234.5	178.5	172.2
97.5°	45.9	76.4	106.7	114.3	249.0	428.5	518.2	494.7	447.5	412.1	400.0
100°	60.9	88.5	116.0	122.9	272.3	471.5	571.0	572.7	576.2	578.8	564.5
102.5°	73.6	99.4	125.1	131.5	283.0	485.0	586.0	616.0	676.1	721.1	708.8
105°	95.3	117.0	138.8	144.2	290.9	486.5	584.3	651.6	786.2	887.2	880.5
107.5°	117.4	137.7	157.9	163.0	292.4	464.8	551.1	644.9	832.6	973.5	975.1
110°	132.3	150.6	168.9	173.5	290.2	445.7	523.4	628.3	838.3	995.7	1002.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	147.0	164.5	181.9	186.3	290.3	428.9	498.2	605.7	820.5	981.5	992.1
115°	169.1	185.2	201.4	205.4	292.9	409.7	468.1	571.6	778.5	933.6	948.3
117.5°	191.0	205.7	220.2	223.9	298.4	397.7	447.3	540.7	727.4	867.5	883.8
120°	203.7	217.5	231.3	234.8	302.8	393.6	439.0	524.3	694.9	822.9	838.7
122.5°	216.2	230.1	244.0	247.5	309.2	391.4	432.6	509.4	663.2	778.4	794.0
125°	235.3	247.9	260.6	263.8	317.7	389.7	425.7	491.0	621.5	719.4	733.7
127.5°	250.8	263.6	276.4	279.6	326.3	388.7	419.9	475.9	588.0	672.0	684.1
130°	259.1	272.9	286.7	290.1	332.6	389.3	417.7	467.5	567.4	642.2	653.4
132.5°	267.7	281.5	295.3	298.7	337.7	389.7	415.8	460.5	549.7	616.7	626.7
135°	280.4	292.9	305.5	308.6	343.3	389.4	412.5	449.9	524.7	580.7	589.4
137.5°	293.4	305.8	318.2	321.3	351.5	391.7	411.8	443.4	506.7	554.1	561.2
140°	304.2	315.7	327.1	329.9	356.6	392.1	410.0	437.3	491.9	532.8	539.4
142.5°	312.5	323.0	333.6	336.3	360.8	393.6	410.0	434.0	481.9	517.8	523.6
145°	325.3	334.5	343.7	346.0	366.5	393.6	407.2	426.8	466.0	495.5	499.8
147.5°	338.0	346.9	356.0	358.2	374.5	396.3	407.2	422.6	453.5	476.7	480.2
150°	346.3	354.5	362.5	364.6	378.8	397.7	407.2	420.3	446.3	465.8	468.7
152.5°	354.8	361.0	367.2	368.7	381.5	398.6	407.2	418.3	440.6	457.2	459.4
155°	367.6	372.2	376.7	377.8	387.6	400.7	407.2	416.1	433.8	447.0	448.5
157.5°	377.0	381.4	385.9	387.0	393.7	402.7	407.2	414.1	427.9	438.2	439.2
160°	383.4	386.8	390.2	391.1	396.4	403.6	407.2	413.1	424.9	433.8	434.3
162.5°	389.7	392.3	394.9	395.5	399.4	404.6	407.2	412.2	422.1	429.6	430.1
165°	396.6	399.0	401.3	401.9	403.7	406.0	407.2	410.8	417.8	423.2	423.8
167.5°	403.0	404.1	405.2	405.5	407.0	409.0	410.0	412.3	416.9	420.4	420.7
170°	407.2	408.3	409.4	409.7	409.8	409.9	410.0	412.3	416.9	420.4	420.4
172.5°	409.4	409.7	409.9	410.0	410.0	410.0	410.0	411.8	415.4	418.2	418.0
175°	412.5	412.5	412.5	412.5	411.7	410.5	410.0	411.1	413.5	415.2	415.2
177.5°	412.5	412.5	412.5	412.5	411.8	410.9	410.5	411.4	413.3	414.6	414.4
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1923.2	1917.9	1923.2	1919.7	1921.5	1916.1	1900.2	1894.8	1900.2	1905.5	1905.5
5°	1946.3	1942.7	1946.3	1946.3	1944.5	1940.9	1923.2	1919.7	1923.2	1925.0	1921.5
7.5°	1953.4	1948.1	1953.4	1949.9	1949.9	1946.3	1928.6	1925.0	1926.8	1932.1	1926.8
10°	1953.4	1948.1	1953.4	1951.6	1949.9	1946.3	1928.6	1921.5	1921.5	1926.8	1921.5
12.5°	1944.5	1940.9	1944.5	1940.9	1940.9	1937.5	1919.7	1912.6	1914.4	1916.1	1909.1
15°	1930.4	1925.0	1930.4	1926.8	1928.6	1923.2	1903.7	1896.6	1896.6	1900.2	1887.8
17.5°	1909.1	1902.0	1909.1	1907.3	1905.5	1902.0	1884.2	1877.1	1875.3	1877.1	1868.2
20°	1884.2	1878.9	1884.2	1882.5	1882.5	1875.3	1857.6	1848.7	1848.7	1848.7	1839.9
22.5°	1845.1	1839.9	1845.1	1848.7	1848.7	1846.9	1831.0	1818.6	1815.1	1815.1	1804.4
25°	1800.8	1795.5	1800.8	1800.8	1799.0	1800.8	1795.5	1788.4	1783.1	1777.7	1767.1
27.5°	1758.2	1754.7	1758.2	1754.7	1758.2	1752.9	1751.1	1749.4	1742.3	1737.0	1722.8
30°	1715.7	1712.1	1715.7	1712.1	1708.6	1705.0	1696.2	1692.6	1699.7	1696.2	1673.1
32.5°	1662.4	1658.9	1662.4	1662.4	1658.9	1658.9	1644.7	1639.4	1641.1	1651.8	1630.5
35°	1607.4	1602.1	1607.4	1605.7	1607.4	1602.1	1593.2	1591.5	1584.3	1596.8	1580.9
37.5°	1543.6	1538.2	1543.6	1543.6	1543.6	1547.1	1540.0	1534.7	1524.1	1540.0	1527.6
40°	1477.9	1470.8	1477.9	1476.2	1477.9	1481.5	1477.9	1474.4	1463.7	1476.2	1465.5
42.5°	1403.4	1401.6	1403.4	1405.2	1405.2	1412.3	1417.6	1410.5	1407.0	1398.1	1405.2
45°	1323.5	1320.0	1323.5	1327.1	1328.9	1332.4	1348.4	1348.4	1343.1	1328.9	1339.6
47.5°	1238.4	1229.5	1238.4	1249.0	1249.0	1254.3	1270.4	1282.7	1273.8	1256.1	1261.5
50°	1147.9	1149.7	1147.9	1155.0	1155.0	1174.6	1186.9	1199.4	1208.2	1186.9	1162.1
52.5°	1059.2	1057.5	1059.2	1064.5	1071.6	1080.5	1101.8	1114.2	1128.4	1116.0	1077.0
55°	970.5	974.0	970.5	972.3	975.8	981.2	1013.0	1025.5	1052.1	1036.1	995.3
57.5°	881.8	876.4	881.8	885.4	887.1	892.4	919.0	942.1	958.1	959.9	910.2
60°	778.9	771.8	778.9	794.9	798.4	801.9	826.8	848.0	862.3	867.6	816.2
62.5°	688.4	676.0	688.4	699.1	706.1	715.0	732.7	764.7	777.1	778.9	706.1
65°	592.6	587.2	592.6	613.9	615.6	626.3	645.8	668.9	695.5	692.0	587.2
67.5°	505.7	505.7	505.7	519.8	530.5	535.8	560.6	571.3	605.1	608.5	489.6
70°	425.8	424.0	425.8	436.5	443.5	456.0	479.1	491.4	518.0	527.0	397.4
72.5°	349.5	347.7	349.5	358.4	365.5	376.1	395.6	409.9	432.9	443.5	308.7
75°	282.1	278.5	282.1	289.2	287.4	301.6	317.6	331.8	353.1	360.2	228.8
77.5°	216.5	216.5	216.5	223.6	223.6	237.7	244.9	262.6	275.0	285.6	168.6
80°	161.4	159.7	161.4	163.2	163.2	170.3	182.7	195.2	205.8	205.8	115.3
82.5°	113.5	110.0	113.5	113.5	113.5	117.1	124.2	127.8	134.8	140.2	72.7
85°	71.0	71.0	71.0	72.7	71.0	74.5	76.3	79.9	79.9	76.3	44.3
87.5°	46.1	44.3	46.1	44.3	44.3	42.6	42.6	42.6	40.8	39.0	24.8
90°	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.0	18.1	12.2	7.8
92.5°	42.1	33.8	42.1	50.5	52.6	74.5	103.8	118.4	104.0	75.1	53.5
95°	146.8	121.5	146.8	172.2	178.5	234.5	309.1	346.3	292.5	184.8	104.0
97.5°	351.9	303.7	351.9	400.0	412.1	447.5	494.7	518.2	428.5	249.0	114.3
100°	507.0	449.5	507.0	564.5	578.8	576.2	572.7	571.0	471.5	272.3	122.9
102.5°	659.6	610.3	659.6	708.8	721.1	676.1	616.0	586.0	485.0	283.0	131.5
105°	854.1	827.6	854.1	880.5	887.2	786.2	651.6	584.3	486.5	290.9	144.2
107.5°	981.4	987.9	981.4	975.1	973.5	832.6	644.9	551.1	464.8	292.4	163.0
110°	1030.1	1057.6	1030.1	1002.6	995.7	838.3	628.3	523.4	445.7	290.2	173.5



TEST NUMBER: P934462

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1034.4	1076.7	1034.4	992.1	981.5	820.5	605.7	498.2	428.9	290.3	186.3
115°	1007.0	1065.7	1007.0	948.3	933.6	778.5	571.6	468.1	409.7	292.9	205.4
117.5°	948.9	1013.9	948.9	883.8	867.5	727.4	540.7	447.3	397.7	298.4	223.9
120°	901.9	965.2	901.9	838.7	822.9	694.9	524.3	439.0	393.6	302.8	234.8
122.5°	856.4	918.7	856.4	794.0	778.4	663.2	509.4	432.6	391.4	309.2	247.5
125°	791.2	848.7	791.2	733.7	719.4	621.5	491.0	425.7	389.7	317.7	263.8
127.5°	732.6	781.2	732.6	684.1	672.0	588.0	475.9	419.9	388.7	326.3	279.6
130°	698.2	742.9	698.2	653.4	642.2	567.4	467.5	417.7	389.3	332.6	290.1
132.5°	666.8	706.9	666.8	626.7	616.7	549.7	460.5	415.8	389.7	337.7	298.7
135°	623.9	658.5	623.9	589.4	580.7	524.7	449.9	412.5	389.4	343.3	308.6
137.5°	589.6	617.9	589.6	561.2	554.1	506.7	443.4	411.8	391.7	351.5	321.3
140°	565.8	592.3	565.8	539.4	532.8	491.9	437.3	410.0	392.1	356.6	329.9
142.5°	546.3	569.1	546.3	523.6	517.8	481.9	434.0	410.0	393.6	360.8	336.3
145°	517.0	534.2	517.0	499.8	495.5	466.0	426.8	407.2	393.6	366.5	346.0
147.5°	494.5	508.7	494.5	480.2	476.7	453.5	422.6	407.2	396.3	374.5	358.2
150°	480.3	491.9	480.3	468.7	465.8	446.3	420.3	407.2	397.7	378.8	364.6
152.5°	468.2	476.9	468.2	459.4	457.2	440.6	418.3	407.2	398.6	381.5	368.7
155°	454.3	460.0	454.3	448.5	447.0	433.8	416.1	407.2	400.7	387.6	377.8
157.5°	443.3	447.3	443.3	439.2	438.2	427.9	414.1	407.2	402.7	393.7	387.0
160°	436.6	439.0	436.6	434.3	433.8	424.9	413.1	407.2	403.6	396.4	391.1
162.5°	432.3	434.6	432.3	430.1	429.6	422.1	412.2	407.2	404.6	399.4	395.5
165°	426.2	428.5	426.2	423.8	423.2	417.8	410.8	407.2	406.0	403.7	401.9
167.5°	421.7	422.7	421.7	420.7	420.4	416.9	412.3	410.0	409.0	407.0	405.5
170°	420.4	420.4	420.4	420.4	420.4	416.9	412.3	410.0	409.9	409.8	409.7
172.5°	417.1	416.3	417.1	418.0	418.2	415.4	411.8	410.0	410.0	410.0	410.0
175°	415.2	415.2	415.2	415.2	415.2	413.5	411.1	410.0	410.5	411.7	412.5
177.5°	413.5	412.5	413.5	414.4	414.6	413.3	411.4	410.5	410.9	411.8	412.5
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934462

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1902.0	1891.3	1891.3	1873.5	1866.5	1861.2	1852.3	1825.6	1818.6	1811.5	1822.1
5°	1917.9	1898.4	1884.2	1852.3	1825.6	1815.1	1781.3	1717.5	1674.9	1642.9	1625.2
7.5°	1921.5	1896.6	1870.0	1820.3	1756.5	1728.0	1625.2	1508.1	1476.2	1447.7	1430.0
10°	1917.9	1889.6	1852.3	1777.7	1627.0	1577.3	1474.4	1398.1	1378.6	1373.2	1378.6
12.5°	1905.5	1878.9	1827.4	1703.2	1492.1	1458.4	1398.1	1353.7	1350.2	1359.1	1407.0
15°	1884.2	1859.4	1799.0	1603.9	1417.6	1392.7	1350.2	1334.2	1353.7	1415.8	1559.5
17.5°	1863.0	1834.5	1760.0	1506.3	1360.8	1343.1	1312.9	1344.8	1454.9	1538.2	1586.1
20°	1834.5	1800.8	1715.7	1435.4	1320.0	1304.0	1289.9	1433.6	1516.9	1547.1	1573.7
22.5°	1800.8	1765.4	1655.3	1385.7	1277.4	1265.0	1273.8	1483.3	1516.9	1538.2	1561.3
25°	1756.5	1726.3	1584.3	1346.6	1243.8	1229.5	1263.3	1477.9	1497.4	1502.8	1548.9
27.5°	1715.7	1676.7	1509.9	1311.2	1202.9	1197.6	1272.1	1454.9	1469.0	1474.4	1524.1
30°	1666.0	1607.4	1426.5	1273.8	1160.3	1158.5	1273.8	1426.5	1422.9	1437.2	1486.8
32.5°	1614.5	1504.6	1332.4	1227.7	1119.5	1117.8	1261.5	1383.9	1380.3	1399.8	1437.2
35°	1566.6	1424.7	1204.7	1174.6	1068.1	1069.8	1231.3	1334.2	1336.0	1353.7	1376.8
37.5°	1516.9	1355.5	1064.5	1116.0	1018.4	1018.4	1190.5	1288.1	1284.5	1289.9	1321.7
40°	1458.4	1247.3	940.3	1039.7	972.3	966.9	1140.8	1238.4	1226.0	1224.2	1268.6
42.5°	1396.3	1128.4	848.0	938.6	919.0	912.0	1080.5	1178.1	1155.0	1160.3	1217.1
45°	1328.9	1096.5	777.1	793.1	864.1	858.7	1014.8	1108.8	1092.9	1107.1	1165.7
47.5°	1261.5	1032.6	754.0	658.2	805.5	803.7	942.1	1041.4	1032.6	1046.8	1108.8
50°	1169.2	961.7	752.2	564.2	739.9	747.0	855.2	975.8	975.8	988.2	1053.9
52.5°	1050.3	874.7	683.0	511.0	663.5	684.8	778.9	919.0	922.6	935.0	993.5
55°	942.1	784.2	633.4	470.1	573.1	619.2	704.3	860.5	867.6	880.0	933.3
57.5°	842.8	653.0	622.8	422.2	489.6	534.1	638.7	803.7	807.3	818.0	869.3
60°	736.3	471.9	571.3	370.8	416.9	450.6	578.4	736.3	748.7	755.8	800.1
62.5°	615.6	342.5	518.0	335.3	381.5	388.6	528.7	672.5	688.4	693.7	720.4
65°	438.3	287.4	440.0	305.1	344.2	345.9	475.5	606.8	621.0	629.9	649.4
67.5°	296.3	234.2	335.3	276.7	315.8	317.6	424.0	530.5	550.0	557.1	569.5
70°	205.8	156.1	248.4	246.7	283.9	287.4	369.0	461.3	479.1	484.4	491.4
72.5°	150.8	126.0	205.8	221.8	250.2	253.7	312.3	383.2	401.0	406.3	409.9
75°	115.3	133.0	166.8	193.4	212.9	214.7	255.5	312.3	324.6	328.2	330.0
77.5°	92.2	124.2	122.4	156.1	173.9	170.3	200.5	241.3	251.9	251.9	251.9
80°	69.2	97.6	92.2	111.7	127.8	124.2	143.7	172.1	175.7	179.2	177.5
82.5°	51.5	62.1	62.1	71.0	85.1	81.7	95.8	111.7	111.7	111.7	115.3
85°	32.0	35.5	28.4	37.2	47.9	46.1	53.3	60.3	62.1	62.1	58.6
87.5°	19.5	15.9	8.9	14.2	21.3	21.3	24.8	26.6	24.8	24.8	24.8
90°	7.3	5.0	2.8	5.0	7.3	7.8	12.2	18.1	21.0	18.7	14.0
92.5°	48.7	29.9	11.1	29.9	48.7	53.5	75.1	104.0	118.4	103.8	74.5
95°	95.4	61.0	26.6	61.0	95.4	104.0	184.8	292.5	346.3	309.1	234.5
97.5°	106.7	76.4	45.9	76.4	106.7	114.3	249.0	428.5	518.2	494.7	447.5
100°	116.0	88.5	60.9	88.5	116.0	122.9	272.3	471.5	571.0	572.7	576.2
102.5°	125.1	99.4	73.6	99.4	125.1	131.5	283.0	485.0	586.0	616.0	676.1
105°	138.8	117.0	95.3	117.0	138.8	144.2	290.9	486.5	584.3	651.6	786.2
107.5°	157.9	137.7	117.4	137.7	157.9	163.0	292.4	464.8	551.1	644.9	832.6
110°	168.9	150.6	132.3	150.6	168.9	173.5	290.2	445.7	523.4	628.3	838.3



TEST NUMBER: P934462

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	181.9	164.5	147.0	164.5	181.9	186.3	290.3	428.9	498.2	605.7	820.5
115°	201.4	185.2	169.1	185.2	201.4	205.4	292.9	409.7	468.1	571.6	778.5
117.5°	220.2	205.7	191.0	205.7	220.2	223.9	298.4	397.7	447.3	540.7	727.4
120°	231.3	217.5	203.7	217.5	231.3	234.8	302.8	393.6	439.0	524.3	694.9
122.5°	244.0	230.1	216.2	230.1	244.0	247.5	309.2	391.4	432.6	509.4	663.2
125°	260.6	247.9	235.3	247.9	260.6	263.8	317.7	389.7	425.7	491.0	621.5
127.5°	276.4	263.6	250.8	263.6	276.4	279.6	326.3	388.7	419.9	475.9	588.0
130°	286.7	272.9	259.1	272.9	286.7	290.1	332.6	389.3	417.7	467.5	567.4
132.5°	295.3	281.5	267.7	281.5	295.3	298.7	337.7	389.7	415.8	460.5	549.7
135°	305.5	292.9	280.4	292.9	305.5	308.6	343.3	389.4	412.5	449.9	524.7
137.5°	318.2	305.8	293.4	305.8	318.2	321.3	351.5	391.7	411.8	443.4	506.7
140°	327.1	315.7	304.2	315.7	327.1	329.9	356.6	392.1	410.0	437.3	491.9
142.5°	333.6	323.0	312.5	323.0	333.6	336.3	360.8	393.6	410.0	434.0	481.9
145°	343.7	334.5	325.3	334.5	343.7	346.0	366.5	393.6	407.2	426.8	466.0
147.5°	356.0	346.9	338.0	346.9	356.0	358.2	374.5	396.3	407.2	422.6	453.5
150°	362.5	354.5	346.3	354.5	362.5	364.6	378.8	397.7	407.2	420.3	446.3
152.5°	367.2	361.0	354.8	361.0	367.2	368.7	381.5	398.6	407.2	418.3	440.6
155°	376.7	372.2	367.6	372.2	376.7	377.8	387.6	400.7	407.2	416.1	433.8
157.5°	385.9	381.4	377.0	381.4	385.9	387.0	393.7	402.7	407.2	414.1	427.9
160°	390.2	386.8	383.4	386.8	390.2	391.1	396.4	403.6	407.2	413.1	424.9
162.5°	394.9	392.3	389.7	392.3	394.9	395.5	399.4	404.6	407.2	412.2	422.1
165°	401.3	399.0	396.6	399.0	401.3	401.9	403.7	406.0	407.2	410.8	417.8
167.5°	405.2	404.1	403.0	404.1	405.2	405.5	407.0	409.0	410.0	412.3	416.9
170°	409.4	408.3	407.2	408.3	409.4	409.7	409.8	409.9	410.0	412.3	416.9
172.5°	409.9	409.7	409.4	409.7	409.9	410.0	410.0	410.0	410.0	411.8	415.4
175°	412.5	412.5	412.5	412.5	412.5	412.5	411.7	410.5	410.0	411.1	413.5
177.5°	412.5	412.5	412.5	412.5	412.5	412.5	411.8	410.9	410.5	411.4	413.3
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934462

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1809.7	1804.4	1811.5	1792.0	1811.5	1804.4	1809.7	1822.1	1811.5	1818.6	1825.6
5°	1587.9	1579.1	1550.7	1527.6	1550.7	1579.1	1587.9	1625.2	1642.9	1674.9	1717.5
7.5°	1419.3	1412.3	1405.2	1391.0	1405.2	1412.3	1419.3	1430.0	1447.7	1476.2	1508.1
10°	1382.1	1383.9	1394.5	1392.7	1394.5	1383.9	1382.1	1378.6	1373.2	1378.6	1398.1
12.5°	1477.9	1493.9	1552.5	1548.9	1552.5	1493.9	1477.9	1407.0	1359.1	1350.2	1353.7
15°	1587.9	1593.2	1605.7	1607.4	1605.7	1593.2	1587.9	1559.5	1415.8	1353.7	1334.2
17.5°	1598.6	1600.4	1609.2	1609.2	1609.2	1600.4	1598.6	1586.1	1538.2	1454.9	1344.8
20°	1589.7	1593.2	1611.0	1614.5	1611.0	1593.2	1589.7	1573.7	1547.1	1516.9	1433.6
22.5°	1586.1	1593.2	1607.4	1605.7	1607.4	1593.2	1586.1	1561.3	1538.2	1516.9	1483.3
25°	1568.4	1568.4	1570.2	1572.0	1570.2	1568.4	1568.4	1548.9	1502.8	1497.4	1477.9
27.5°	1531.2	1534.7	1545.3	1543.6	1545.3	1534.7	1531.2	1524.1	1474.4	1469.0	1454.9
30°	1497.4	1493.9	1485.1	1477.9	1485.1	1493.9	1497.4	1486.8	1437.2	1422.9	1426.5
32.5°	1440.6	1431.8	1422.9	1417.6	1422.9	1431.8	1440.6	1437.2	1399.8	1380.3	1383.9
35°	1373.2	1375.0	1373.2	1367.9	1373.2	1375.0	1373.2	1376.8	1353.7	1336.0	1334.2
37.5°	1325.3	1328.9	1327.1	1320.0	1327.1	1328.9	1325.3	1321.7	1289.9	1284.5	1288.1
40°	1275.6	1277.4	1275.6	1270.4	1275.6	1277.4	1275.6	1268.6	1224.2	1226.0	1238.4
42.5°	1227.7	1226.0	1220.7	1217.1	1220.7	1226.0	1227.7	1217.1	1160.3	1155.0	1178.1
45°	1172.8	1174.6	1163.9	1158.5	1163.9	1174.6	1172.8	1165.7	1107.1	1092.9	1108.8
47.5°	1117.8	1117.8	1108.8	1103.6	1108.8	1117.8	1117.8	1108.8	1046.8	1032.6	1041.4
50°	1059.2	1057.5	1045.0	1043.2	1045.0	1057.5	1059.2	1053.9	988.2	975.8	975.8
52.5°	991.8	991.8	993.5	997.1	993.5	991.8	991.8	993.5	935.0	922.6	919.0
55°	933.3	935.0	947.4	951.0	947.4	935.0	933.3	933.3	880.0	867.6	860.5
57.5°	872.9	872.9	881.8	881.8	881.8	872.9	872.9	869.3	818.0	807.3	803.7
60°	803.7	807.3	814.4	812.6	814.4	807.3	803.7	800.1	755.8	748.7	736.3
62.5°	730.9	734.5	736.3	732.7	736.3	734.5	730.9	720.4	693.7	688.4	672.5
65°	654.7	658.2	660.0	656.4	660.0	658.2	654.7	649.4	629.9	621.0	606.8
67.5°	576.6	574.9	573.1	580.2	573.1	574.9	576.6	569.5	557.1	550.0	530.5
70°	496.8	496.8	495.0	498.5	495.0	496.8	496.8	491.4	484.4	479.1	461.3
72.5°	411.6	409.9	416.9	411.6	416.9	409.9	411.6	409.9	406.3	401.0	383.2
75°	328.2	331.8	328.2	333.6	328.2	331.8	328.2	330.0	328.2	324.6	312.3
77.5°	250.2	253.7	250.2	250.2	250.2	253.7	250.2	251.9	251.9	251.9	241.3
80°	177.5	175.7	175.7	173.9	175.7	175.7	177.5	177.5	179.2	175.7	172.1
82.5°	113.5	111.7	111.7	115.3	111.7	111.7	113.5	115.3	111.7	111.7	111.7
85°	62.1	63.8	60.3	60.3	60.3	63.8	62.1	58.6	62.1	62.1	60.3
87.5°	23.1	21.3	21.3	21.3	21.3	21.3	23.1	24.8	24.8	24.8	26.6
90°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.0	18.1
92.5°	52.6	50.5	42.1	33.8	42.1	50.5	52.6	74.5	103.8	118.4	104.0
95°	178.5	172.2	146.8	121.5	146.8	172.2	178.5	234.5	309.1	346.3	292.5
97.5°	412.1	400.0	351.9	303.7	351.9	400.0	412.1	447.5	494.7	518.2	428.5
100°	578.8	564.5	507.0	449.5	507.0	564.5	578.8	576.2	572.7	571.0	471.5
102.5°	721.1	708.8	659.6	610.3	659.6	708.8	721.1	676.1	616.0	586.0	485.0
105°	887.2	880.5	854.1	827.6	854.1	880.5	887.2	786.2	651.6	584.3	486.5
107.5°	973.5	975.1	981.4	987.9	981.4	975.1	973.5	832.6	644.9	551.1	464.8
110°	995.7	1002.6	1030.1	1057.6	1030.1	1002.6	995.7	838.3	628.3	523.4	445.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	981.5	992.1	1034.4	1076.7	1034.4	992.1	981.5	820.5	605.7	498.2	428.9
115°	933.6	948.3	1007.0	1065.7	1007.0	948.3	933.6	778.5	571.6	468.1	409.7
117.5°	867.5	883.8	948.9	1013.9	948.9	883.8	867.5	727.4	540.7	447.3	397.7
120°	822.9	838.7	901.9	965.2	901.9	838.7	822.9	694.9	524.3	439.0	393.6
122.5°	778.4	794.0	856.4	918.7	856.4	794.0	778.4	663.2	509.4	432.6	391.4
125°	719.4	733.7	791.2	848.7	791.2	733.7	719.4	621.5	491.0	425.7	389.7
127.5°	672.0	684.1	732.6	781.2	732.6	684.1	672.0	588.0	475.9	419.9	388.7
130°	642.2	653.4	698.2	742.9	698.2	653.4	642.2	567.4	467.5	417.7	389.3
132.5°	616.7	626.7	666.8	706.9	666.8	626.7	616.7	549.7	460.5	415.8	389.7
135°	580.7	589.4	623.9	658.5	623.9	589.4	580.7	524.7	449.9	412.5	389.4
137.5°	554.1	561.2	589.6	617.9	589.6	561.2	554.1	506.7	443.4	411.8	391.7
140°	532.8	539.4	565.8	592.3	565.8	539.4	532.8	491.9	437.3	410.0	392.1
142.5°	517.8	523.6	546.3	569.1	546.3	523.6	517.8	481.9	434.0	410.0	393.6
145°	495.5	499.8	517.0	534.2	517.0	499.8	495.5	466.0	426.8	407.2	393.6
147.5°	476.7	480.2	494.5	508.7	494.5	480.2	476.7	453.5	422.6	407.2	396.3
150°	465.8	468.7	480.3	491.9	480.3	468.7	465.8	446.3	420.3	407.2	397.7
152.5°	457.2	459.4	468.2	476.9	468.2	459.4	457.2	440.6	418.3	407.2	398.6
155°	447.0	448.5	454.3	460.0	454.3	448.5	447.0	433.8	416.1	407.2	400.7
157.5°	438.2	439.2	443.3	447.3	443.3	439.2	438.2	427.9	414.1	407.2	402.7
160°	433.8	434.3	436.6	439.0	436.6	434.3	433.8	424.9	413.1	407.2	403.6
162.5°	429.6	430.1	432.3	434.6	432.3	430.1	429.6	422.1	412.2	407.2	404.6
165°	423.2	423.8	426.2	428.5	426.2	423.8	423.2	417.8	410.8	407.2	406.0
167.5°	420.4	420.7	421.7	422.7	421.7	420.7	420.4	416.9	412.3	410.0	409.0
170°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	416.9	412.3	410.0	409.9
172.5°	418.2	418.0	417.1	416.3	417.1	418.0	418.2	415.4	411.8	410.0	410.0
175°	415.2	415.2	415.2	415.2	415.2	415.2	415.2	413.5	411.1	410.0	410.5
177.5°	414.6	414.4	413.5	412.5	413.5	414.4	414.6	413.3	411.4	410.5	410.9
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1852.3	1861.2	1866.5	1873.5	1891.3
5°	1781.3	1815.1	1825.6	1852.3	1884.2
7.5°	1625.2	1728.0	1756.5	1820.3	1870.0
10°	1474.4	1577.3	1627.0	1777.7	1852.3
12.5°	1398.1	1458.4	1492.1	1703.2	1827.4
15°	1350.2	1392.7	1417.6	1603.9	1799.0
17.5°	1312.9	1343.1	1360.8	1506.3	1760.0
20°	1289.9	1304.0	1320.0	1435.4	1715.7
22.5°	1273.8	1265.0	1277.4	1385.7	1655.3
25°	1263.3	1229.5	1243.8	1346.6	1584.3
27.5°	1272.1	1197.6	1202.9	1311.2	1509.9
30°	1273.8	1158.5	1160.3	1273.8	1426.5
32.5°	1261.5	1117.8	1119.5	1227.7	1332.4
35°	1231.3	1069.8	1068.1	1174.6	1204.7
37.5°	1190.5	1018.4	1018.4	1116.0	1064.5
40°	1140.8	966.9	972.3	1039.7	940.3
42.5°	1080.5	912.0	919.0	938.6	848.0
45°	1014.8	858.7	864.1	793.1	777.1
47.5°	942.1	803.7	805.5	658.2	754.0
50°	855.2	747.0	739.9	564.2	752.2
52.5°	778.9	684.8	663.5	511.0	683.0
55°	704.3	619.2	573.1	470.1	633.4
57.5°	638.7	534.1	489.6	422.2	622.8
60°	578.4	450.6	416.9	370.8	571.3
62.5°	528.7	388.6	381.5	335.3	518.0
65°	475.5	345.9	344.2	305.1	440.0
67.5°	424.0	317.6	315.8	276.7	335.3
70°	369.0	287.4	283.9	246.7	248.4
72.5°	312.3	253.7	250.2	221.8	205.8
75°	255.5	214.7	212.9	193.4	166.8
77.5°	200.5	170.3	173.9	156.1	122.4
80°	143.7	124.2	127.8	111.7	92.2
82.5°	95.8	81.7	85.1	71.0	62.1
85°	53.3	46.1	47.9	37.2	28.4
87.5°	24.8	21.3	21.3	14.2	8.9
90°	12.2	7.8	7.3	5.0	2.8
92.5°	75.1	53.5	48.7	29.9	11.1
95°	184.8	104.0	95.4	61.0	26.6
97.5°	249.0	114.3	106.7	76.4	45.9
100°	272.3	122.9	116.0	88.5	60.9
102.5°	283.0	131.5	125.1	99.4	73.6
105°	290.9	144.2	138.8	117.0	95.3
107.5°	292.4	163.0	157.9	137.7	117.4
110°	290.2	173.5	168.9	150.6	132.3



TEST NUMBER: P934462

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	290.3	186.3	181.9	164.5	147.0
115°	292.9	205.4	201.4	185.2	169.1
117.5°	298.4	223.9	220.2	205.7	191.0
120°	302.8	234.8	231.3	217.5	203.7
122.5°	309.2	247.5	244.0	230.1	216.2
125°	317.7	263.8	260.6	247.9	235.3
127.5°	326.3	279.6	276.4	263.6	250.8
130°	332.6	290.1	286.7	272.9	259.1
132.5°	337.7	298.7	295.3	281.5	267.7
135°	343.3	308.6	305.5	292.9	280.4
137.5°	351.5	321.3	318.2	305.8	293.4
140°	356.6	329.9	327.1	315.7	304.2
142.5°	360.8	336.3	333.6	323.0	312.5
145°	366.5	346.0	343.7	334.5	325.3
147.5°	374.5	358.2	356.0	346.9	338.0
150°	378.8	364.6	362.5	354.5	346.3
152.5°	381.5	368.7	367.2	361.0	354.8
155°	387.6	377.8	376.7	372.2	367.6
157.5°	393.7	387.0	385.9	381.4	377.0
160°	396.4	391.1	390.2	386.8	383.4
162.5°	399.4	395.5	394.9	392.3	389.7
165°	403.7	401.9	401.3	399.0	396.6
167.5°	407.0	405.5	405.2	404.1	403.0
170°	409.8	409.7	409.4	408.3	407.2
172.5°	410.0	410.0	409.9	409.7	409.4
175°	411.7	412.5	412.5	412.5	412.5
177.5°	411.8	412.5	412.5	412.5	412.5
180°	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934462
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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	14.56	15.57	15.38	16.41	17.46	17.39	18.39	18.21	19.24	20.29
	3H	15.05	15.95	15.88	16.81	17.88	18.74	19.65	19.58	20.50	21.58
	4H	15.25	16.10	16.10	16.96	18.05	19.19	20.05	20.04	20.91	21.99
	6H	15.37	16.16	16.24	17.03	18.13	19.48	20.27	20.35	21.14	22.24
	8H	15.38	16.13	16.25	17.02	18.12	19.56	20.31	20.43	21.20	22.30
	12H	15.36	16.07	16.23	16.95	18.08	19.60	20.32	20.48	21.20	22.32
4H	2H	15.61	16.47	16.47	17.33	18.41	17.81	18.67	18.67	19.53	20.62
	3H	16.65	17.36	17.52	18.26	19.36	19.33	20.04	20.20	20.94	22.04
	4H	16.93	17.58	17.81	18.47	19.60	19.86	20.51	20.74	21.40	22.53
	6H	17.07	17.63	17.96	18.54	19.67	20.24	20.80	21.13	21.71	22.84
	8H	17.08	17.60	17.97	18.51	19.65	20.35	20.87	21.24	21.78	22.92
	12H	17.05	17.52	17.97	18.45	19.60	20.41	20.88	21.33	21.81	22.96
8H	4H	17.40	17.92	18.30	18.83	19.97	20.00	20.52	20.90	21.43	22.58
	6H	17.67	18.10	18.59	19.05	20.19	20.44	20.87	21.37	21.83	22.97
	8H	17.71	18.09	18.64	19.04	20.20	20.59	20.98	21.53	21.92	23.08
	12H	17.70	18.04	18.64	18.97	20.18	20.70	21.04	21.64	21.97	23.18
12H	4H	17.41	17.88	18.33	18.81	19.96	19.97	20.44	20.89	21.37	22.52
	6H	17.73	18.11	18.66	19.05	20.21	20.44	20.82	21.37	21.77	22.93
	8H	17.80	18.14	18.74	19.07	20.29	20.61	20.95	21.55	21.88	23.09