

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: P934862

Luminaire Tested: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934862
REPORT IS A COMBINATION OF REPORTS P933715 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-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: -

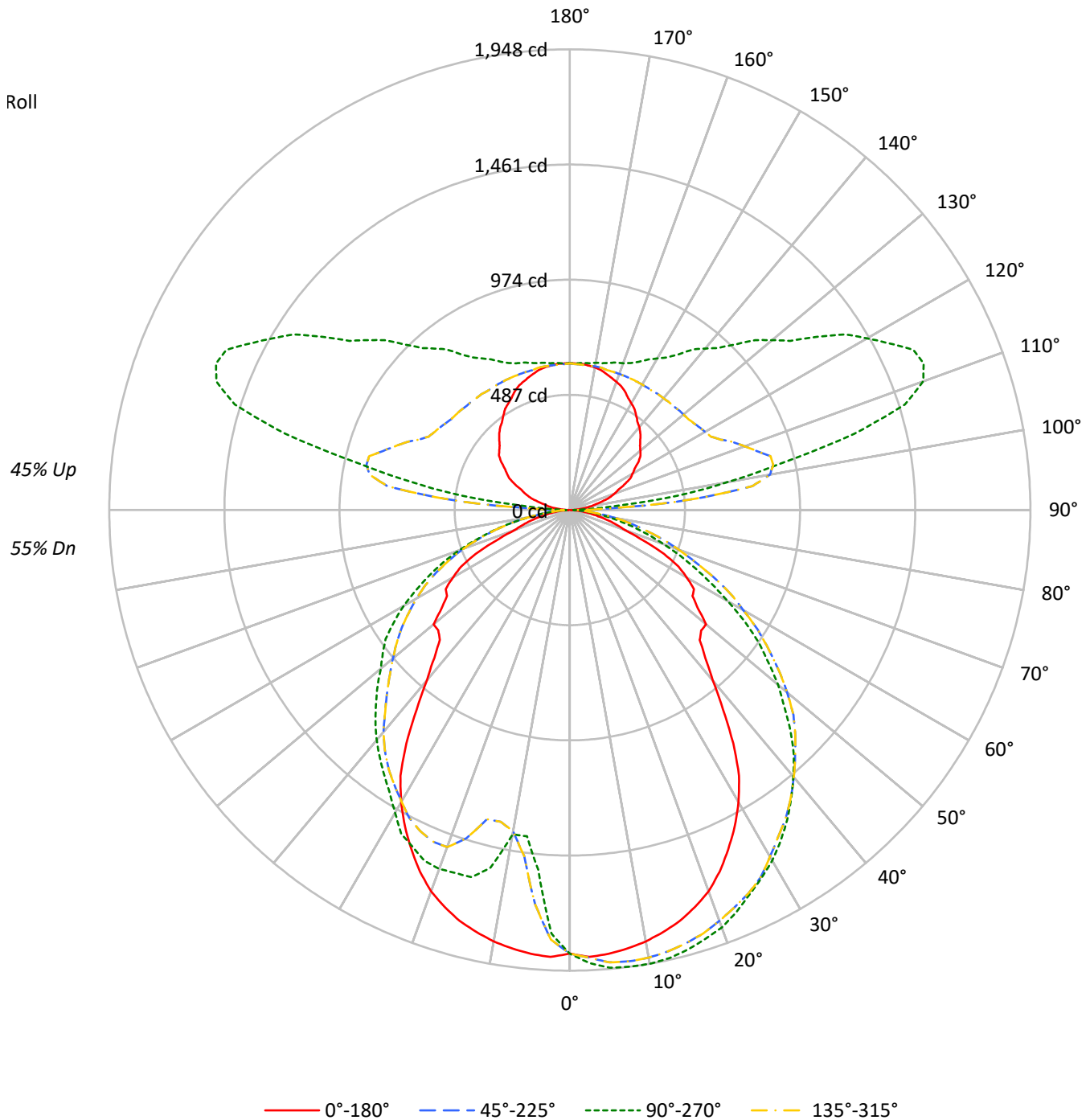
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8885.9 lumens
Efficiency: N/A
Efficacy: 115.7 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: General Diffuse

Input Watts (W): 76.8
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

TEST NUMBER: P934862
CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-3500K

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	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

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



TEST NUMBER: P934862

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	1.9
10°-20°	480.6	5.4
20°-30°	743.0	8.4
30°-40°	887.0	10.0
40°-50°	892.2	10.0
50°-60°	776.3	8.7
60°-70°	550.4	6.2
70°-80°	291.2	3.3
80°-90°	74.9	0.8
90°-100°	302.4	3.4
100°-110°	794.9	8.9
110°-120°	824.3	9.3
120°-130°	661.2	7.4
130°-140°	518.8	5.8
140°-150°	398.2	4.5
150°-160°	286.8	3.2
160°-170°	175.5	2.0
170°-180°	59.3	0.7
0°-30°	1392.9	15.7
0°-40°	2279.9	25.7
0°-60°	3948.3	44.4
0°-90°	4864.8	54.7
90°-120°	1921.6	21.6
90°-150°	3499.7	39.4
90°-180°	4021.0	45.3
0°-180°	8885.9	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°	4	16	4	16	4	5
95°	40	183	40	183	40	44
105°	143	1245	143	1245	143	152
115°	254	1603	254	1603	254	251
125°	354	1276	354	1276	354	314
135°	422	990	422	990	422	326
145°	489	804	489	804	489	306
155°	553	692	553	692	553	254
165°	596	644	596	644	596	168
175°	620	624	620	624	620	59
180°	620	620	620	620	620	



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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°	4.1	7.4	10.8	11.6	18.3	27.1	31.6	28.1	21.1	15.8	15.8
92.5°	16.7	44.9	73.2	80.3	112.9	156.4	178.2	156.1	112.1	79.1	75.9
95°	39.9	91.8	143.5	156.5	277.9	439.9	520.8	464.8	352.6	268.5	259.0
97.5°	69.1	114.8	160.4	171.9	374.4	644.4	779.4	743.9	673.1	619.9	601.7
100°	91.6	133.0	174.5	184.9	409.5	709.1	858.9	861.5	866.7	870.5	848.9
102.5°	110.8	149.4	188.1	197.8	425.6	729.4	881.3	926.5	1016.8	1084.5	1066.0
105°	143.2	176.0	208.8	216.9	437.5	731.7	878.8	980.0	1182.4	1334.3	1324.3
107.5°	176.6	207.1	237.6	245.2	439.8	699.1	828.9	970.1	1252.5	1464.2	1466.6
110°	199.0	226.6	254.1	261.0	436.4	670.3	787.2	945.1	1260.8	1497.5	1507.9



TEST NUMBER: P934862

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	221.1	247.3	273.6	280.1	436.6	645.1	749.4	910.9	1233.9	1476.2	1492.1
115°	254.4	278.6	302.8	308.9	440.6	616.2	704.0	859.6	1170.8	1404.2	1426.2
117.5°	287.2	309.2	331.3	336.8	448.8	598.1	672.7	813.2	1094.1	1304.7	1329.2
120°	306.4	327.1	347.8	353.0	455.4	592.0	660.3	788.6	1045.2	1237.7	1261.5
122.5°	325.2	346.0	367.0	372.2	465.0	588.8	650.7	766.2	997.3	1170.6	1194.1
125°	353.8	372.9	392.0	396.7	477.9	586.2	640.3	738.5	934.8	1082.0	1103.6
127.5°	377.2	396.4	415.6	420.4	490.8	584.6	631.6	715.8	884.4	1010.8	1029.1
130°	389.6	410.4	431.1	436.3	500.3	585.6	628.2	703.3	853.3	965.9	982.7
132.5°	402.5	423.3	444.0	449.2	507.9	586.2	625.3	692.4	826.8	927.5	942.6
135°	421.7	440.6	459.5	464.2	516.2	585.6	620.3	676.5	789.0	873.4	886.4
137.5°	441.3	459.9	478.6	483.3	528.7	589.2	619.5	667.0	762.1	833.4	844.1
140°	457.5	474.7	492.0	496.3	536.4	589.8	616.5	657.6	739.8	801.4	811.3
142.5°	470.0	486.0	501.9	505.9	542.7	591.9	616.5	652.6	724.8	778.9	787.5
145°	489.2	503.1	516.9	520.4	551.1	592.0	612.4	641.9	700.9	745.2	751.6
147.5°	508.3	521.8	535.3	538.7	563.2	596.0	612.4	635.6	682.0	716.9	722.2
150°	520.8	533.0	545.2	548.3	569.7	598.2	612.4	632.0	671.2	700.7	705.1
152.5°	533.7	543.0	552.2	554.6	573.8	599.5	612.4	629.1	662.6	687.8	691.1
155°	552.9	559.7	566.6	568.3	582.9	602.5	612.4	625.7	652.4	672.4	674.5
157.5°	567.0	573.7	580.3	582.0	592.2	605.7	612.4	622.8	643.5	659.0	660.6
160°	576.6	581.8	587.0	588.2	596.3	607.0	612.4	621.3	639.0	652.3	653.2
162.5°	586.2	590.1	593.9	594.9	600.8	608.5	612.4	619.9	634.9	646.1	647.0
165°	596.5	600.1	603.6	604.5	607.1	610.6	612.4	617.8	628.5	636.6	637.5
167.5°	606.1	607.8	609.4	609.9	612.1	615.1	616.5	620.0	627.1	632.4	632.7
170°	612.4	614.1	615.7	616.2	616.2	616.4	616.5	620.0	627.1	632.4	632.4
172.5°	615.7	616.1	616.4	616.5	616.5	616.5	616.5	619.3	624.8	629.0	628.7
175°	620.3	620.3	620.3	620.3	619.0	617.3	616.5	618.3	621.8	624.5	624.5
177.5°	620.3	620.3	620.3	620.3	619.3	618.0	617.4	618.8	621.6	623.7	623.3
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



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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°	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.1	18.3	11.6
92.5°	63.3	50.8	63.3	75.9	79.1	112.1	156.1	178.2	156.4	112.9	80.3
95°	220.9	182.7	220.9	259.0	268.5	352.6	464.8	520.8	439.9	277.9	156.5
97.5°	529.2	456.7	529.2	601.7	619.9	673.1	743.9	779.4	644.4	374.4	171.9
100°	762.4	676.1	762.4	848.9	870.5	866.7	861.5	858.9	709.1	409.5	184.9
102.5°	992.0	918.0	992.0	1066.0	1084.5	1016.8	926.5	881.3	729.4	425.6	197.8
105°	1284.5	1244.8	1284.5	1324.3	1334.3	1182.4	980.0	878.8	731.7	437.5	216.9
107.5°	1476.2	1485.8	1476.2	1466.6	1464.2	1252.5	970.1	828.9	699.1	439.8	245.2
110°	1549.2	1590.7	1549.2	1507.9	1497.5	1260.8	945.1	787.2	670.3	436.4	261.0



TEST NUMBER: P934862

CATALOG NUMBER: SQ4-FA-075U-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°	1555.8	1619.4	1555.8	1492.1	1476.2	1233.9	910.9	749.4	645.1	436.6	280.1
115°	1514.5	1602.8	1514.5	1426.2	1404.2	1170.8	859.6	704.0	616.2	440.6	308.9
117.5°	1427.0	1524.9	1427.0	1329.2	1304.7	1094.1	813.2	672.7	598.1	448.8	336.8
120°	1356.6	1451.7	1356.6	1261.5	1237.7	1045.2	788.6	660.3	592.0	455.4	353.0
122.5°	1287.9	1381.7	1287.9	1194.1	1170.6	997.3	766.2	650.7	588.8	465.0	372.2
125°	1190.0	1276.4	1190.0	1103.6	1082.0	934.8	738.5	640.3	586.2	477.9	396.7
127.5°	1102.0	1174.8	1102.0	1029.1	1010.8	884.4	715.8	631.6	584.6	490.8	420.4
130°	1050.0	1117.3	1050.0	982.7	965.9	853.3	703.3	628.2	585.6	500.3	436.3
132.5°	1002.9	1063.3	1002.9	942.6	927.5	826.8	692.4	625.3	586.2	507.9	449.2
135°	938.4	990.4	938.4	886.4	873.4	789.0	676.5	620.3	585.6	516.2	464.2
137.5°	886.6	929.2	886.6	844.1	833.4	762.1	667.0	619.5	589.2	528.7	483.3
140°	851.2	890.9	851.2	811.3	801.4	739.8	657.6	616.5	589.8	536.4	496.3
142.5°	821.7	855.9	821.7	787.5	778.9	724.8	652.6	616.5	591.9	542.7	505.9
145°	777.6	803.5	777.6	751.6	745.2	700.9	641.9	612.4	592.0	551.1	520.4
147.5°	743.6	765.1	743.6	722.2	716.9	682.0	635.6	612.4	596.0	563.2	538.7
150°	722.4	739.8	722.4	705.1	700.7	671.2	632.0	612.4	598.2	569.7	548.3
152.5°	704.2	717.3	704.2	691.1	687.8	662.6	629.1	612.4	599.5	573.8	554.6
155°	683.2	691.9	683.2	674.5	672.4	652.4	625.7	612.4	602.5	582.9	568.3
157.5°	666.6	672.7	666.6	660.6	659.0	643.5	622.8	612.4	605.7	592.2	582.0
160°	656.7	660.3	656.7	653.2	652.3	639.0	621.3	612.4	607.0	596.3	588.2
162.5°	650.3	653.6	650.3	647.0	646.1	634.9	619.9	612.4	608.5	600.8	594.9
165°	641.0	644.4	641.0	637.5	636.6	628.5	617.8	612.4	610.6	607.1	604.5
167.5°	634.2	635.7	634.2	632.7	632.4	627.1	620.0	616.5	615.1	612.1	609.9
170°	632.4	632.4	632.4	632.4	632.4	627.1	620.0	616.5	616.4	616.2	616.2
172.5°	627.4	626.1	627.4	628.7	629.0	624.8	619.3	616.5	616.5	616.5	616.5
175°	624.5	624.5	624.5	624.5	624.5	621.8	618.3	616.5	617.3	619.0	620.3
177.5°	621.8	620.3	621.8	623.3	623.7	621.6	618.8	617.4	618.0	619.3	620.3
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



TEST NUMBER: P934862

CATALOG NUMBER: SQ4-FA-075U-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°	10.8	7.4	4.1	7.4	10.8	11.6	18.3	27.1	31.6	28.1	21.1
92.5°	73.2	44.9	16.7	44.9	73.2	80.3	112.9	156.4	178.2	156.1	112.1
95°	143.5	91.8	39.9	91.8	143.5	156.5	277.9	439.9	520.8	464.8	352.6
97.5°	160.4	114.8	69.1	114.8	160.4	171.9	374.4	644.4	779.4	743.9	673.1
100°	174.5	133.0	91.6	133.0	174.5	184.9	409.5	709.1	858.9	861.5	866.7
102.5°	188.1	149.4	110.8	149.4	188.1	197.8	425.6	729.4	881.3	926.5	1016.8
105°	208.8	176.0	143.2	176.0	208.8	216.9	437.5	731.7	878.8	980.0	1182.4
107.5°	237.6	207.1	176.6	207.1	237.6	245.2	439.8	699.1	828.9	970.1	1252.5
110°	254.1	226.6	199.0	226.6	254.1	261.0	436.4	670.3	787.2	945.1	1260.8



TEST NUMBER: P934862

CATALOG NUMBER: SQ4-FA-075U-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°	273.6	247.3	221.1	247.3	273.6	280.1	436.6	645.1	749.4	910.9	1233.9
115°	302.8	278.6	254.4	278.6	302.8	308.9	440.6	616.2	704.0	859.6	1170.8
117.5°	331.3	309.2	287.2	309.2	331.3	336.8	448.8	598.1	672.7	813.2	1094.1
120°	347.8	327.1	306.4	327.1	347.8	353.0	455.4	592.0	660.3	788.6	1045.2
122.5°	367.0	346.0	325.2	346.0	367.0	372.2	465.0	588.8	650.7	766.2	997.3
125°	392.0	372.9	353.8	372.9	392.0	396.7	477.9	586.2	640.3	738.5	934.8
127.5°	415.6	396.4	377.2	396.4	415.6	420.4	490.8	584.6	631.6	715.8	884.4
130°	431.1	410.4	389.6	410.4	431.1	436.3	500.3	585.6	628.2	703.3	853.3
132.5°	444.0	423.3	402.5	423.3	444.0	449.2	507.9	586.2	625.3	692.4	826.8
135°	459.5	440.6	421.7	440.6	459.5	464.2	516.2	585.6	620.3	676.5	789.0
137.5°	478.6	459.9	441.3	459.9	478.6	483.3	528.7	589.2	619.5	667.0	762.1
140°	492.0	474.7	457.5	474.7	492.0	496.3	536.4	589.8	616.5	657.6	739.8
142.5°	501.9	486.0	470.0	486.0	501.9	505.9	542.7	591.9	616.5	652.6	724.8
145°	516.9	503.1	489.2	503.1	516.9	520.4	551.1	592.0	612.4	641.9	700.9
147.5°	535.3	521.8	508.3	521.8	535.3	538.7	563.2	596.0	612.4	635.6	682.0
150°	545.2	533.0	520.8	533.0	545.2	548.3	569.7	598.2	612.4	632.0	671.2
152.5°	552.2	543.0	533.7	543.0	552.2	554.6	573.8	599.5	612.4	629.1	662.6
155°	566.6	559.7	552.9	559.7	566.6	568.3	582.9	602.5	612.4	625.7	652.4
157.5°	580.3	573.7	567.0	573.7	580.3	582.0	592.2	605.7	612.4	622.8	643.5
160°	587.0	581.8	576.6	581.8	587.0	588.2	596.3	607.0	612.4	621.3	639.0
162.5°	593.9	590.1	586.2	590.1	593.9	594.9	600.8	608.5	612.4	619.9	634.9
165°	603.6	600.1	596.5	600.1	603.6	604.5	607.1	610.6	612.4	617.8	628.5
167.5°	609.4	607.8	606.1	607.8	609.4	609.9	612.1	615.1	616.5	620.0	627.1
170°	615.7	614.1	612.4	614.1	615.7	616.2	616.2	616.4	616.5	620.0	627.1
172.5°	616.4	616.1	615.7	616.1	616.4	616.5	616.5	616.5	616.5	619.3	624.8
175°	620.3	620.3	620.3	620.3	620.3	620.3	619.0	617.3	616.5	618.3	621.8
177.5°	620.3	620.3	620.3	620.3	620.3	620.3	619.3	618.0	617.4	618.8	621.6
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



TEST NUMBER: P934862
 CATALOG NUMBER: SQ4-FA-075U-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°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.1
92.5°	79.1	75.9	63.3	50.8	63.3	75.9	79.1	112.1	156.1	178.2	156.4
95°	268.5	259.0	220.9	182.7	220.9	259.0	268.5	352.6	464.8	520.8	439.9
97.5°	619.9	601.7	529.2	456.7	529.2	601.7	619.9	673.1	743.9	779.4	644.4
100°	870.5	848.9	762.4	676.1	762.4	848.9	870.5	866.7	861.5	858.9	709.1
102.5°	1084.5	1066.0	992.0	918.0	992.0	1066.0	1084.5	1016.8	926.5	881.3	729.4
105°	1334.3	1324.3	1284.5	1244.8	1284.5	1324.3	1334.3	1182.4	980.0	878.8	731.7
107.5°	1464.2	1466.6	1476.2	1485.8	1476.2	1466.6	1464.2	1252.5	970.1	828.9	699.1
110°	1497.5	1507.9	1549.2	1590.7	1549.2	1507.9	1497.5	1260.8	945.1	787.2	670.3



TEST NUMBER: P934862

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1476.2	1492.1	1555.8	1619.4	1555.8	1492.1	1476.2	1233.9	910.9	749.4	645.1
115°	1404.2	1426.2	1514.5	1602.8	1514.5	1426.2	1404.2	1170.8	859.6	704.0	616.2
117.5°	1304.7	1329.2	1427.0	1524.9	1427.0	1329.2	1304.7	1094.1	813.2	672.7	598.1
120°	1237.7	1261.5	1356.6	1451.7	1356.6	1261.5	1237.7	1045.2	788.6	660.3	592.0
122.5°	1170.6	1194.1	1287.9	1381.7	1287.9	1194.1	1170.6	997.3	766.2	650.7	588.8
125°	1082.0	1103.6	1190.0	1276.4	1190.0	1103.6	1082.0	934.8	738.5	640.3	586.2
127.5°	1010.8	1029.1	1102.0	1174.8	1102.0	1029.1	1010.8	884.4	715.8	631.6	584.6
130°	965.9	982.7	1050.0	1117.3	1050.0	982.7	965.9	853.3	703.3	628.2	585.6
132.5°	927.5	942.6	1002.9	1063.3	1002.9	942.6	927.5	826.8	692.4	625.3	586.2
135°	873.4	886.4	938.4	990.4	938.4	886.4	873.4	789.0	676.5	620.3	585.6
137.5°	833.4	844.1	886.6	929.2	886.6	844.1	833.4	762.1	667.0	619.5	589.2
140°	801.4	811.3	851.2	890.9	851.2	811.3	801.4	739.8	657.6	616.5	589.8
142.5°	778.9	787.5	821.7	855.9	821.7	787.5	778.9	724.8	652.6	616.5	591.9
145°	745.2	751.6	777.6	803.5	777.6	751.6	745.2	700.9	641.9	612.4	592.0
147.5°	716.9	722.2	743.6	765.1	743.6	722.2	716.9	682.0	635.6	612.4	596.0
150°	700.7	705.1	722.4	739.8	722.4	705.1	700.7	671.2	632.0	612.4	598.2
152.5°	687.8	691.1	704.2	717.3	704.2	691.1	687.8	662.6	629.1	612.4	599.5
155°	672.4	674.5	683.2	691.9	683.2	674.5	672.4	652.4	625.7	612.4	602.5
157.5°	659.0	660.6	666.6	672.7	666.6	660.6	659.0	643.5	622.8	612.4	605.7
160°	652.3	653.2	656.7	660.3	656.7	653.2	652.3	639.0	621.3	612.4	607.0
162.5°	646.1	647.0	650.3	653.6	650.3	647.0	646.1	634.9	619.9	612.4	608.5
165°	636.6	637.5	641.0	644.4	641.0	637.5	636.6	628.5	617.8	612.4	610.6
167.5°	632.4	632.7	634.2	635.7	634.2	632.7	632.4	627.1	620.0	616.5	615.1
170°	632.4	632.4	632.4	632.4	632.4	632.4	632.4	627.1	620.0	616.5	616.4
172.5°	629.0	628.7	627.4	626.1	627.4	628.7	629.0	624.8	619.3	616.5	616.5
175°	624.5	624.5	624.5	624.5	624.5	624.5	624.5	621.8	618.3	616.5	617.3
177.5°	623.7	623.3	621.8	620.3	621.8	623.3	623.7	621.6	618.8	617.4	618.0
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



TEST NUMBER: P934862

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-3500K

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°	18.3	11.6	10.8	7.4	4.1
92.5°	112.9	80.3	73.2	44.9	16.7
95°	277.9	156.5	143.5	91.8	39.9
97.5°	374.4	171.9	160.4	114.8	69.1
100°	409.5	184.9	174.5	133.0	91.6
102.5°	425.6	197.8	188.1	149.4	110.8
105°	437.5	216.9	208.8	176.0	143.2
107.5°	439.8	245.2	237.6	207.1	176.6
110°	436.4	261.0	254.1	226.6	199.0



TEST NUMBER: P934862

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	436.6	280.1	273.6	247.3	221.1
115°	440.6	308.9	302.8	278.6	254.4
117.5°	448.8	336.8	331.3	309.2	287.2
120°	455.4	353.0	347.8	327.1	306.4
122.5°	465.0	372.2	367.0	346.0	325.2
125°	477.9	396.7	392.0	372.9	353.8
127.5°	490.8	420.4	415.6	396.4	377.2
130°	500.3	436.3	431.1	410.4	389.6
132.5°	507.9	449.2	444.0	423.3	402.5
135°	516.2	464.2	459.5	440.6	421.7
137.5°	528.7	483.3	478.6	459.9	441.3
140°	536.4	496.3	492.0	474.7	457.5
142.5°	542.7	505.9	501.9	486.0	470.0
145°	551.1	520.4	516.9	503.1	489.2
147.5°	563.2	538.7	535.3	521.8	508.3
150°	569.7	548.3	545.2	533.0	520.8
152.5°	573.8	554.6	552.2	543.0	533.7
155°	582.9	568.3	566.6	559.7	552.9
157.5°	592.2	582.0	580.3	573.7	567.0
160°	596.3	588.2	587.0	581.8	576.6
162.5°	600.8	594.9	593.9	590.1	586.2
165°	607.1	604.5	603.6	600.1	596.5
167.5°	612.1	609.9	609.4	607.8	606.1
170°	616.2	616.2	615.7	614.1	612.4
172.5°	616.5	616.5	616.4	616.1	615.7
175°	619.0	620.3	620.3	620.3	620.3
177.5°	619.3	620.3	620.3	620.3	620.3
180°	620.3	620.3	620.3	620.3	620.3



TEST NUMBER: P934862

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-3500K

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	13.75	14.65	14.66	15.59	16.79	16.57	17.48	17.49	18.41	19.61
	3H	14.23	15.04	15.15	15.98	17.21	17.92	18.73	18.85	19.67	20.90
	4H	14.42	15.19	15.36	16.14	17.37	18.36	19.13	19.31	20.08	21.31
	6H	14.54	15.25	15.49	16.20	17.45	18.65	19.36	19.60	20.31	21.56
	8H	14.54	15.22	15.50	16.19	17.43	18.72	19.40	19.68	20.37	21.61
	12H	14.52	15.16	15.48	16.12	17.39	18.76	19.40	19.73	20.37	21.64
4H	2H	14.78	15.55	15.73	16.50	17.73	16.99	17.75	17.93	18.70	19.94
	3H	15.81	16.45	16.77	17.43	18.68	18.49	19.13	19.45	20.11	21.36
	4H	16.09	16.68	17.06	17.65	18.92	19.02	19.61	19.99	20.58	21.85
	6H	16.22	16.72	17.20	17.72	18.99	19.39	19.89	20.37	20.89	22.16
	8H	16.23	16.70	17.21	17.69	18.97	19.50	19.97	20.48	20.96	22.24
	12H	16.20	16.62	17.20	17.63	18.92	19.55	19.98	20.55	20.98	22.28
8H	4H	16.55	17.02	17.53	18.01	19.30	19.15	19.62	20.13	20.61	21.90
	6H	16.81	17.20	17.82	18.23	19.52	19.59	19.98	20.60	21.01	22.29
	8H	16.86	17.20	17.87	18.22	19.52	19.74	20.08	20.76	21.10	22.40
	12H	16.84	17.14	17.86	18.16	19.50	19.84	20.14	20.86	21.15	22.50
12H	4H	16.56	16.98	17.56	17.99	19.28	19.12	19.54	20.12	20.55	21.84
	6H	16.87	17.22	17.89	18.23	19.54	19.59	19.93	20.60	20.95	22.25
	8H	16.94	17.24	17.96	18.26	19.61	19.75	20.05	20.77	21.06	22.41