

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: P934439

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934439
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-92765-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

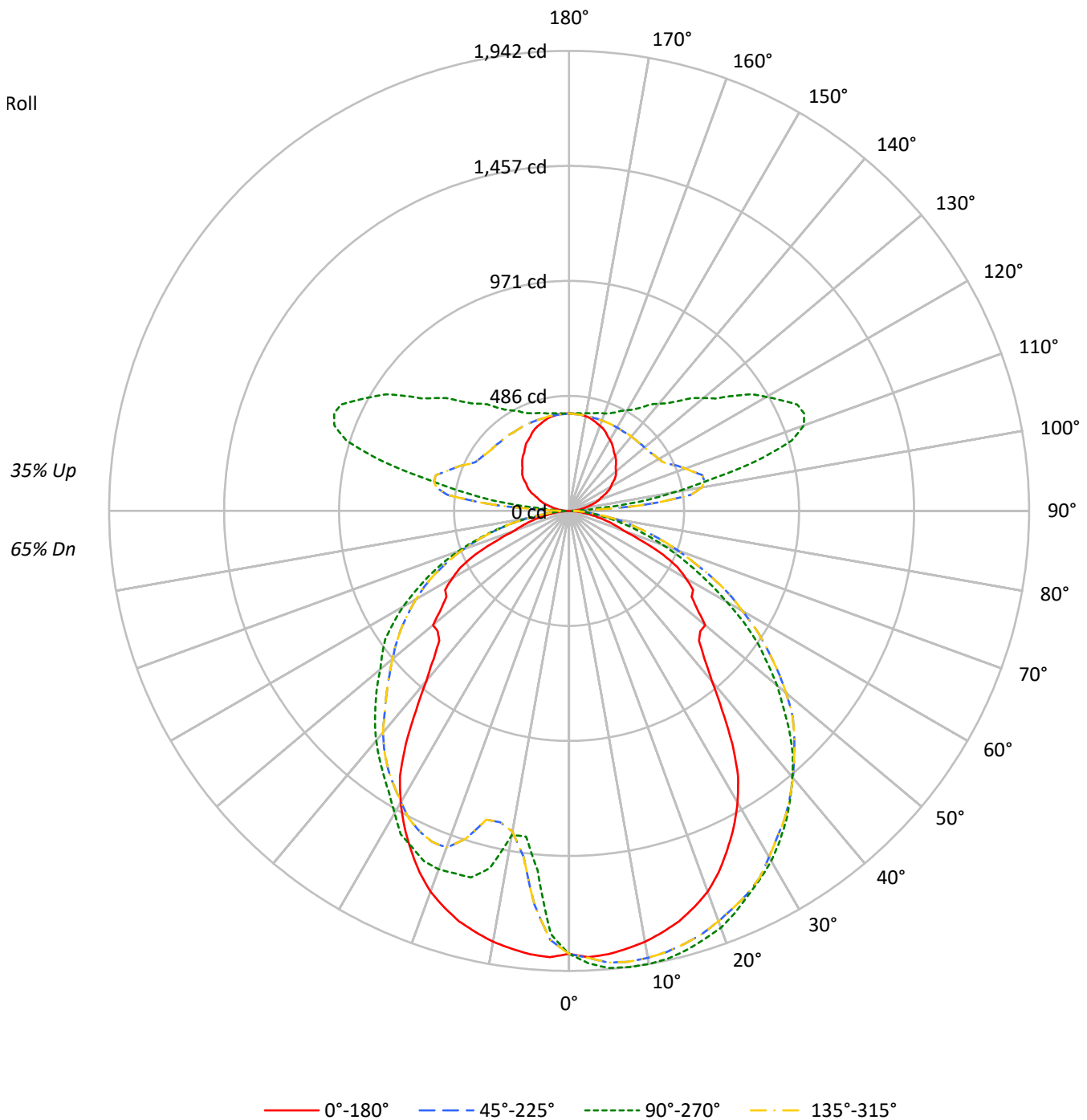
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7515.0 lumens
Efficiency: N/A
Efficacy: 110.8 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	65	65	65	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55	55	55	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46	46	46	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39	39	39	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33	33	33	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29	29	29	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25	25	25	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22	22	22	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20	20	20	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18	18	18	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16	16	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11566	11566	11566	11566
5°	11648	11676	11648	9181
10°	11566	11501	11566	8223
15°	11436	11252	11436	9396
20°	11193	10957	11193	9415
25°	10699	10526	10699	9216
30°	10062	10169	10062	8777
35°	8966	9717	8966	8296
40°	7466	9184	7466	7932
45°	6667	8562	6667	7514
50°	7077	7818	7077	7094
55°	6653	7018	6653	6851
60°	6850	5960	6850	6275
65°	6200	4927	6200	5508
70°	4282	3926	4282	4616
75°	3742	2902	3742	3476
80°	2991	1919	2991	2089
85°	1687	1017	1687	865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10225 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	2.2
10°-20°	479.2	6.4
20°-30°	740.8	9.9
30°-40°	884.3	11.8
40°-50°	889.5	11.8
50°-60°	774.0	10.3
60°-70°	548.7	7.3
70°-80°	290.3	3.9
80°-90°	73.9	1.0
90°-100°	200.4	2.7
100°-110°	527.0	7.0
110°-120°	546.4	7.3
120°-130°	438.3	5.8
130°-140°	343.9	4.6
140°-150°	264.0	3.5
150°-160°	190.1	2.5
160°-170°	116.3	1.5
170°-180°	39.3	0.5
0°-30°	1388.7	18.5
0°-40°	2273.0	30.2
0°-60°	3936.4	52.4
0°-90°	4849.4	64.5
90°-120°	1273.8	17.0
90°-150°	2319.9	30.9
90°-180°	2666.0	35.5
0°-180°	7515.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1870	1870	1870	1870	1870	
5°	1878	1937	1878	1523	1878	178
15°	1794	1919	1794	1603	1794	505
25°	1580	1790	1580	1567	1580	725
35°	1201	1597	1201	1364	1201	743
45°	775	1316	775	1155	775	621
55°	632	971	632	948	632	580
65°	439	586	439	654	439	419
75°	166	278	166	333	166	175
85°	28	71	28	60	28	38
90°	3	10	3	10	3	3
95°	26	121	26	121	26	29
105°	95	825	95	825	95	101
115°	169	1062	169	1062	169	167
125°	235	846	235	846	235	208
135°	280	656	280	656	280	216
145°	324	533	324	533	324	203
155°	366	459	366	459	366	168
165°	395	427	395	427	395	112
175°	411	414	411	414	411	39
180°	411	411	411	411	411	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7
2.5°	1885.7	1885.7	1896.3	1899.8	1899.8	1894.5	1889.1	1894.5	1910.4	1915.7	1914.0
5°	1878.5	1892.7	1912.2	1915.7	1919.2	1917.4	1914.0	1917.4	1935.1	1938.7	1940.5
7.5°	1864.4	1890.9	1915.7	1921.0	1926.3	1921.0	1919.2	1922.8	1940.5	1944.0	1944.0
10°	1846.7	1883.9	1912.2	1915.7	1921.0	1915.7	1915.7	1922.8	1940.5	1944.0	1945.7
12.5°	1821.9	1873.3	1899.8	1903.3	1910.4	1908.6	1906.8	1914.0	1931.6	1935.1	1935.1
15°	1793.6	1853.8	1878.5	1882.1	1894.5	1890.9	1890.9	1898.0	1917.4	1922.8	1921.0
17.5°	1754.7	1829.0	1857.4	1862.6	1871.5	1869.7	1871.5	1878.5	1896.3	1899.8	1901.5
20°	1710.5	1795.4	1829.0	1834.3	1843.2	1843.2	1843.2	1852.0	1869.7	1876.8	1876.8
22.5°	1650.4	1760.1	1795.4	1799.0	1809.6	1809.6	1813.1	1825.5	1841.4	1843.2	1843.2
25°	1579.6	1721.1	1751.2	1761.8	1772.4	1777.7	1783.0	1790.1	1795.4	1793.6	1795.4
27.5°	1505.3	1671.6	1710.5	1717.6	1731.8	1737.0	1744.1	1745.9	1747.7	1752.9	1749.4
30°	1422.2	1602.6	1661.0	1668.0	1691.1	1694.5	1687.5	1691.1	1699.9	1703.5	1707.0
32.5°	1328.4	1500.0	1609.7	1625.6	1646.8	1636.2	1634.5	1639.7	1653.9	1653.9	1657.4
35°	1201.1	1420.4	1561.9	1576.1	1592.0	1579.6	1586.7	1588.4	1597.3	1602.6	1600.8
37.5°	1061.3	1351.4	1512.4	1523.0	1535.4	1519.5	1530.0	1535.4	1542.4	1539.0	1539.0
40°	937.5	1243.5	1454.0	1461.1	1471.8	1459.3	1470.0	1473.4	1477.0	1473.4	1471.8
42.5°	845.5	1125.0	1392.1	1401.0	1393.9	1402.8	1406.2	1413.4	1408.0	1401.0	1401.0
45°	774.8	1093.2	1324.9	1335.5	1324.9	1339.0	1344.4	1344.4	1328.4	1324.9	1323.1
47.5°	751.8	1029.5	1257.7	1257.7	1252.3	1270.0	1278.9	1266.5	1250.6	1245.3	1245.3
50°	750.0	958.8	1165.7	1158.6	1183.3	1204.6	1195.8	1183.3	1171.0	1151.6	1151.6
52.5°	681.0	872.1	1047.1	1073.7	1112.7	1125.0	1110.9	1098.5	1077.2	1068.4	1061.3
55°	631.5	781.8	939.3	992.3	1033.0	1048.9	1022.4	1010.0	978.2	972.9	969.4
57.5°	620.9	651.0	840.2	907.4	957.0	955.2	939.3	916.3	889.8	884.4	882.7
60°	569.6	470.5	734.1	813.7	864.9	859.7	845.5	824.3	799.5	796.0	792.5
62.5°	516.5	341.4	613.8	704.0	776.6	774.8	762.4	730.5	712.8	704.0	697.0
65°	438.7	286.5	436.9	585.5	689.9	693.4	666.9	643.8	624.4	613.8	612.1
67.5°	334.3	233.5	295.4	488.2	606.7	603.2	569.6	559.0	534.2	528.9	518.3
70°	247.6	155.7	205.2	396.2	525.4	516.5	490.0	477.6	454.6	442.2	435.2
72.5°	205.2	125.6	150.3	307.8	442.2	431.6	408.6	394.4	375.0	364.4	357.3
75°	166.3	132.6	115.0	228.2	359.1	352.0	330.8	316.6	300.7	286.5	288.3
77.5°	122.0	123.8	91.9	168.1	284.7	274.2	261.8	244.1	237.0	222.9	222.9
80°	91.9	97.3	69.0	115.0	205.2	205.2	194.6	182.2	169.8	162.7	162.7
82.5°	61.9	61.9	51.3	72.5	139.8	134.4	127.4	123.8	116.8	113.2	113.2
85°	28.3	35.3	31.9	44.2	76.1	79.6	79.6	76.1	74.3	70.8	72.5
87.5°	8.8	15.9	19.5	24.7	38.9	40.7	42.5	42.5	42.5	44.2	44.2
90°	2.8	5.0	7.2	7.8	12.1	18.0	21.0	18.7	13.9	10.4	10.4
92.5°	11.1	29.8	48.6	53.3	74.9	103.7	118.1	103.5	74.3	52.4	50.3
95°	26.5	60.8	95.2	103.7	184.2	291.6	345.3	308.1	233.8	178.0	171.7
97.5°	45.8	76.1	106.4	114.0	248.2	427.2	516.6	493.2	446.1	410.9	398.8
100°	60.7	88.2	115.7	122.6	271.4	470.1	569.3	571.0	574.5	577.1	562.8
102.5°	73.4	99.1	124.7	131.1	282.2	483.5	584.2	614.1	674.0	718.9	706.7
105°	95.0	116.7	138.4	143.8	290.0	485.0	582.5	649.6	783.8	884.5	877.9
107.5°	117.0	137.3	157.5	162.5	291.5	463.4	549.4	643.0	830.1	970.5	972.2
110°	131.9	150.1	168.4	173.0	289.3	444.3	521.8	626.4	835.8	992.7	999.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	146.6	164.0	181.4	185.8	289.4	427.7	496.7	603.9	818.0	978.6	989.1
115°	168.6	184.7	200.8	204.8	292.1	408.5	466.7	569.8	776.1	930.8	945.5
117.5°	190.4	205.0	219.6	223.2	297.5	396.5	446.0	539.1	725.3	864.9	881.1
120°	203.1	216.8	230.6	234.0	301.9	392.4	437.7	522.7	692.9	820.4	836.2
122.5°	215.6	229.4	243.2	246.7	308.2	390.3	431.3	507.9	661.2	776.0	791.6
125°	234.6	247.2	259.8	263.0	316.8	388.6	424.4	489.5	619.7	717.2	731.5
127.5°	250.0	262.8	275.6	278.8	325.4	387.6	418.6	474.5	586.2	670.0	682.1
130°	258.3	272.1	285.8	289.2	331.6	388.1	416.4	466.1	565.7	640.3	651.4
132.5°	266.9	280.6	294.4	297.8	336.7	388.6	414.5	459.1	548.1	614.8	624.8
135°	279.6	292.1	304.6	307.7	342.2	388.2	411.2	448.5	523.1	579.0	587.6
137.5°	292.5	304.9	317.2	320.4	350.4	390.5	410.6	442.1	505.1	552.4	559.5
140°	303.3	314.7	326.1	328.9	355.5	391.0	408.7	436.0	490.4	531.2	537.8
142.5°	311.5	322.1	332.6	335.3	359.7	392.4	408.7	432.7	480.4	516.3	522.0
145°	324.3	333.5	342.7	345.0	365.3	392.4	406.0	425.5	464.6	494.0	498.3
147.5°	337.0	345.9	354.9	357.1	373.4	395.1	406.0	421.3	452.1	475.2	478.8
150°	345.3	353.4	361.4	363.5	377.7	396.5	406.0	419.0	445.0	464.4	467.3
152.5°	353.7	359.9	366.1	367.6	380.3	397.4	406.0	417.0	439.3	455.9	458.0
155°	366.5	371.1	375.5	376.7	386.4	399.4	406.0	414.8	432.5	445.7	447.1
157.5°	375.9	380.3	384.7	385.8	392.5	401.5	406.0	412.8	426.6	436.8	437.8
160°	382.2	385.6	389.0	389.9	395.3	402.4	406.0	411.9	423.6	432.5	433.0
162.5°	388.6	391.1	393.7	394.4	398.2	403.4	406.0	411.0	420.9	428.3	428.8
165°	395.4	397.8	400.1	400.7	402.5	404.8	406.0	409.5	416.6	421.9	422.6
167.5°	401.8	402.8	404.0	404.3	405.8	407.7	408.7	411.1	415.7	419.2	419.4
170°	406.0	407.0	408.2	408.5	408.6	408.6	408.7	411.1	415.7	419.2	419.2
172.5°	408.2	408.5	408.6	408.7	408.7	408.7	408.7	410.5	414.2	416.9	416.8
175°	411.2	411.2	411.2	411.2	410.4	409.3	408.7	409.9	412.2	413.9	413.9
177.5°	411.2	411.2	411.2	411.2	410.6	409.7	409.3	410.2	412.0	413.4	413.1
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7
2.5°	1917.4	1912.2	1917.4	1914.0	1915.7	1910.4	1894.5	1889.1	1894.5	1899.8	1899.8
5°	1940.5	1936.9	1940.5	1940.5	1938.7	1935.1	1917.4	1914.0	1917.4	1919.2	1915.7
7.5°	1947.5	1942.3	1947.5	1944.0	1944.0	1940.5	1922.8	1919.2	1921.0	1926.3	1921.0
10°	1947.5	1942.3	1947.5	1945.7	1944.0	1940.5	1922.8	1915.7	1915.7	1921.0	1915.7
12.5°	1938.7	1935.1	1938.7	1935.1	1935.1	1931.6	1914.0	1906.8	1908.6	1910.4	1903.3
15°	1924.6	1919.2	1924.6	1921.0	1922.8	1917.4	1898.0	1890.9	1890.9	1894.5	1882.1
17.5°	1903.3	1896.3	1903.3	1901.5	1899.8	1896.3	1878.5	1871.5	1869.7	1871.5	1862.6
20°	1878.5	1873.3	1878.5	1876.8	1876.8	1869.7	1852.0	1843.2	1843.2	1843.2	1834.3
22.5°	1839.6	1834.3	1839.6	1843.2	1843.2	1841.4	1825.5	1813.1	1809.6	1809.6	1799.0
25°	1795.4	1790.1	1795.4	1795.4	1793.6	1795.4	1790.1	1783.0	1777.7	1772.4	1761.8
27.5°	1752.9	1749.4	1752.9	1749.4	1752.9	1747.7	1745.9	1744.1	1737.0	1731.8	1717.6
30°	1710.5	1707.0	1710.5	1707.0	1703.5	1699.9	1691.1	1687.5	1694.5	1691.1	1668.0
32.5°	1657.4	1653.9	1657.4	1657.4	1653.9	1653.9	1639.7	1634.5	1636.2	1646.8	1625.6
35°	1602.6	1597.3	1602.6	1600.8	1602.6	1597.3	1588.4	1586.7	1579.6	1592.0	1576.1
37.5°	1539.0	1533.6	1539.0	1539.0	1539.0	1542.4	1535.4	1530.0	1519.5	1535.4	1523.0
40°	1473.4	1466.4	1473.4	1471.8	1473.4	1477.0	1473.4	1470.0	1459.3	1471.8	1461.1
42.5°	1399.2	1397.4	1399.2	1401.0	1401.0	1408.0	1413.4	1406.2	1402.8	1393.9	1401.0
45°	1319.6	1316.1	1319.6	1323.1	1324.9	1328.4	1344.4	1344.4	1339.0	1324.9	1335.5
47.5°	1234.7	1225.8	1234.7	1245.3	1245.3	1250.6	1266.5	1278.9	1270.0	1252.3	1257.7
50°	1144.4	1146.2	1144.4	1151.6	1151.6	1171.0	1183.3	1195.8	1204.6	1183.3	1158.6
52.5°	1056.1	1054.3	1056.1	1061.3	1068.4	1077.2	1098.5	1110.9	1125.0	1112.7	1073.7
55°	967.6	971.1	967.6	969.4	972.9	978.2	1010.0	1022.4	1048.9	1033.0	992.3
57.5°	879.1	873.8	879.1	882.7	884.4	889.8	916.3	939.3	955.2	957.0	907.4
60°	776.6	769.4	776.6	792.5	796.0	799.5	824.3	845.5	859.7	864.9	813.7
62.5°	686.3	673.9	686.3	697.0	704.0	712.8	730.5	762.4	774.8	776.6	704.0
65°	590.8	585.5	590.8	612.1	613.8	624.4	643.8	666.9	693.4	689.9	585.5
67.5°	504.2	504.2	504.2	518.3	528.9	534.2	559.0	569.6	603.2	606.7	488.2
70°	424.5	422.7	424.5	435.2	442.2	454.6	477.6	490.0	516.5	525.4	396.2
72.5°	348.5	346.7	348.5	357.3	364.4	375.0	394.4	408.6	431.6	442.2	307.8
75°	281.3	277.7	281.3	288.3	286.5	300.7	316.6	330.8	352.0	359.1	228.2
77.5°	215.8	215.8	215.8	222.9	222.9	237.0	244.1	261.8	274.2	284.7	168.1
80°	160.9	159.2	160.9	162.7	162.7	169.8	182.2	194.6	205.2	205.2	115.0
82.5°	113.2	109.7	113.2	113.2	113.2	116.8	123.8	127.4	134.4	139.8	72.5
85°	70.8	70.8	70.8	72.5	70.8	74.3	76.1	79.6	79.6	76.1	44.2
87.5°	46.0	44.2	46.0	44.2	44.2	42.5	42.5	42.5	40.7	38.9	24.7
90°	10.4	10.4	10.4	10.4	10.4	13.9	18.7	21.0	18.0	12.1	7.8
92.5°	42.0	33.7	42.0	50.3	52.4	74.3	103.5	118.1	103.7	74.9	53.3
95°	146.4	121.1	146.4	171.7	178.0	233.8	308.1	345.3	291.6	184.2	103.7
97.5°	350.8	302.8	350.8	398.8	410.9	446.1	493.2	516.6	427.2	248.2	114.0
100°	505.5	448.2	505.5	562.8	577.1	574.5	571.0	569.3	470.1	271.4	122.6
102.5°	657.6	608.5	657.6	706.7	718.9	674.0	614.1	584.2	483.5	282.2	131.1
105°	851.6	825.1	851.6	877.9	884.5	783.8	649.6	582.5	485.0	290.0	143.8
107.5°	978.5	984.9	978.5	972.2	970.5	830.1	643.0	549.4	463.4	291.5	162.5
110°	1027.0	1054.5	1027.0	999.6	992.7	835.8	626.4	521.8	444.3	289.3	173.0



TEST NUMBER: P934439

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1031.3	1073.5	1031.3	989.1	978.6	818.0	603.9	496.7	427.7	289.4	185.8
115°	1003.9	1062.5	1003.9	945.5	930.8	776.1	569.8	466.7	408.5	292.1	204.8
117.5°	946.0	1010.9	946.0	881.1	864.9	725.3	539.1	446.0	396.5	297.5	223.2
120°	899.2	962.3	899.2	836.2	820.4	692.9	522.7	437.7	392.4	301.9	234.0
122.5°	853.8	915.9	853.8	791.6	776.0	661.2	507.9	431.3	390.3	308.2	246.7
125°	788.8	846.1	788.8	731.5	717.2	619.7	489.5	424.4	388.6	316.8	263.0
127.5°	730.4	778.8	730.4	682.1	670.0	586.2	474.5	418.6	387.6	325.4	278.8
130°	696.1	740.7	696.1	651.4	640.3	565.7	466.1	416.4	388.1	331.6	289.2
132.5°	664.8	704.8	664.8	624.8	614.8	548.1	459.1	414.5	388.6	336.7	297.8
135°	622.1	656.5	622.1	587.6	579.0	523.1	448.5	411.2	388.2	342.2	307.7
137.5°	587.8	616.0	587.8	559.5	552.4	505.1	442.1	410.6	390.5	350.4	320.4
140°	564.1	590.6	564.1	537.8	531.2	490.4	436.0	408.7	391.0	355.5	328.9
142.5°	544.7	567.3	544.7	522.0	516.3	480.4	432.7	408.7	392.4	359.7	335.3
145°	515.5	532.6	515.5	498.3	494.0	464.6	425.5	406.0	392.4	365.3	345.0
147.5°	493.0	507.2	493.0	478.8	475.2	452.1	421.3	406.0	395.1	373.4	357.1
150°	478.9	490.4	478.9	467.3	464.4	445.0	419.0	406.0	396.5	377.7	363.5
152.5°	466.8	475.5	466.8	458.0	455.9	439.3	417.0	406.0	397.4	380.3	367.6
155°	452.9	458.6	452.9	447.1	445.7	432.5	414.8	406.0	399.4	386.4	376.7
157.5°	441.9	446.0	441.9	437.8	436.8	426.6	412.8	406.0	401.5	392.5	385.8
160°	435.3	437.7	435.3	433.0	432.5	423.6	411.9	406.0	402.4	395.3	389.9
162.5°	431.0	433.3	431.0	428.8	428.3	420.9	411.0	406.0	403.4	398.2	394.4
165°	424.9	427.2	424.9	422.6	421.9	416.6	409.5	406.0	404.8	402.5	400.7
167.5°	420.4	421.4	420.4	419.4	419.2	415.7	411.1	408.7	407.7	405.8	404.3
170°	419.2	419.2	419.2	419.2	419.2	415.7	411.1	408.7	408.6	408.6	408.5
172.5°	415.9	415.1	415.9	416.8	416.9	414.2	410.5	408.7	408.7	408.7	408.7
175°	413.9	413.9	413.9	413.9	413.9	412.2	409.9	408.7	409.3	410.4	411.2
177.5°	412.2	411.2	412.2	413.1	413.4	412.0	410.2	409.3	409.7	410.6	411.2
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



TEST NUMBER: P934439

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7
2.5°	1896.3	1885.7	1885.7	1867.9	1860.8	1855.6	1846.7	1820.1	1813.1	1806.0	1816.7
5°	1912.2	1892.7	1878.5	1846.7	1820.1	1809.6	1776.0	1712.3	1669.8	1638.0	1620.3
7.5°	1915.7	1890.9	1864.4	1814.9	1751.2	1722.8	1620.3	1503.5	1471.8	1443.4	1425.7
10°	1912.2	1883.9	1846.7	1772.4	1622.1	1572.5	1470.0	1393.9	1374.5	1369.1	1374.5
12.5°	1899.8	1873.3	1821.9	1698.1	1487.6	1454.0	1393.9	1349.6	1346.2	1355.0	1402.8
15°	1878.5	1853.8	1793.6	1599.0	1413.4	1388.6	1346.2	1330.2	1349.6	1411.6	1554.9
17.5°	1857.4	1829.0	1754.7	1501.7	1356.7	1339.0	1308.9	1340.8	1450.5	1533.6	1581.4
20°	1829.0	1795.4	1710.5	1431.0	1316.1	1300.1	1286.0	1429.3	1512.4	1542.4	1569.0
22.5°	1795.4	1760.1	1650.4	1381.5	1273.6	1261.2	1270.0	1478.8	1512.4	1533.6	1556.6
25°	1751.2	1721.1	1579.6	1342.6	1240.0	1225.8	1259.5	1473.4	1492.9	1498.3	1544.2
27.5°	1710.5	1671.6	1505.3	1307.2	1199.3	1194.0	1268.3	1450.5	1464.6	1470.0	1519.5
30°	1661.0	1602.6	1422.2	1270.0	1156.8	1155.1	1270.0	1422.2	1418.6	1432.8	1482.3
32.5°	1609.7	1500.0	1328.4	1224.0	1116.1	1114.4	1257.7	1379.7	1376.2	1395.6	1432.8
35°	1561.9	1420.4	1201.1	1171.0	1064.9	1066.6	1227.6	1330.2	1332.0	1349.6	1372.7
37.5°	1512.4	1351.4	1061.3	1112.7	1015.4	1015.4	1186.9	1284.2	1280.6	1286.0	1317.8
40°	1454.0	1243.5	937.5	1036.6	969.4	964.0	1137.4	1234.7	1222.3	1220.6	1264.8
42.5°	1392.1	1125.0	845.5	935.7	916.3	909.2	1077.2	1174.5	1151.6	1156.8	1213.4
45°	1324.9	1093.2	774.8	790.7	861.5	856.1	1011.8	1105.5	1089.6	1103.8	1162.2
47.5°	1257.7	1029.5	751.8	656.3	803.1	801.3	939.3	1038.3	1029.5	1043.7	1105.5
50°	1165.7	958.8	750.0	562.5	737.7	744.7	852.6	972.9	972.9	985.3	1050.7
52.5°	1047.1	872.1	681.0	509.4	661.5	682.8	776.6	916.3	919.8	932.2	990.5
55°	939.3	781.8	631.5	468.7	571.4	617.3	702.2	857.9	864.9	877.4	930.5
57.5°	840.2	651.0	620.9	421.0	488.2	532.4	636.8	801.3	804.9	815.5	866.7
60°	734.1	470.5	569.6	369.7	415.7	449.3	576.6	734.1	746.5	753.5	797.7
62.5°	613.8	341.4	516.5	334.3	380.3	387.4	527.1	670.4	686.3	691.6	718.2
65°	436.9	286.5	438.7	304.2	343.1	344.9	474.1	604.9	619.1	628.0	647.4
67.5°	295.4	233.5	334.3	275.9	314.8	316.6	422.7	528.9	548.3	555.4	567.8
70°	205.2	155.7	247.6	245.9	283.0	286.5	367.9	459.9	477.6	482.9	490.0
72.5°	150.3	125.6	205.2	221.1	249.4	253.0	311.3	382.0	399.8	405.1	408.6
75°	115.0	132.6	166.3	192.8	212.3	214.1	254.8	311.3	323.7	327.2	329.0
77.5°	91.9	123.8	122.0	155.7	173.3	169.8	199.9	240.6	251.2	251.2	251.2
80°	69.0	97.3	91.9	111.4	127.4	123.8	143.3	171.6	175.1	178.6	176.9
82.5°	51.3	61.9	61.9	70.8	84.9	81.4	95.5	111.4	111.4	111.4	115.0
85°	31.9	35.3	28.3	37.1	47.8	46.0	53.1	60.2	61.9	61.9	58.4
87.5°	19.5	15.9	8.8	14.2	21.2	21.2	24.7	26.5	24.7	24.7	24.7
90°	7.2	5.0	2.8	5.0	7.2	7.8	12.1	18.0	21.0	18.7	13.9
92.5°	48.6	29.8	11.1	29.8	48.6	53.3	74.9	103.7	118.1	103.5	74.3
95°	95.2	60.8	26.5	60.8	95.2	103.7	184.2	291.6	345.3	308.1	233.8
97.5°	106.4	76.1	45.8	76.1	106.4	114.0	248.2	427.2	516.6	493.2	446.1
100°	115.7	88.2	60.7	88.2	115.7	122.6	271.4	470.1	569.3	571.0	574.5
102.5°	124.7	99.1	73.4	99.1	124.7	131.1	282.2	483.5	584.2	614.1	674.0
105°	138.4	116.7	95.0	116.7	138.4	143.8	290.0	485.0	582.5	649.6	783.8
107.5°	157.5	137.3	117.0	137.3	157.5	162.5	291.5	463.4	549.4	643.0	830.1
110°	168.4	150.1	131.9	150.1	168.4	173.0	289.3	444.3	521.8	626.4	835.8



TEST NUMBER: P934439

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	181.4	164.0	146.6	164.0	181.4	185.8	289.4	427.7	496.7	603.9	818.0
115°	200.8	184.7	168.6	184.7	200.8	204.8	292.1	408.5	466.7	569.8	776.1
117.5°	219.6	205.0	190.4	205.0	219.6	223.2	297.5	396.5	446.0	539.1	725.3
120°	230.6	216.8	203.1	216.8	230.6	234.0	301.9	392.4	437.7	522.7	692.9
122.5°	243.2	229.4	215.6	229.4	243.2	246.7	308.2	390.3	431.3	507.9	661.2
125°	259.8	247.2	234.6	247.2	259.8	263.0	316.8	388.6	424.4	489.5	619.7
127.5°	275.6	262.8	250.0	262.8	275.6	278.8	325.4	387.6	418.6	474.5	586.2
130°	285.8	272.1	258.3	272.1	285.8	289.2	331.6	388.1	416.4	466.1	565.7
132.5°	294.4	280.6	266.9	280.6	294.4	297.8	336.7	388.6	414.5	459.1	548.1
135°	304.6	292.1	279.6	292.1	304.6	307.7	342.2	388.2	411.2	448.5	523.1
137.5°	317.2	304.9	292.5	304.9	317.2	320.4	350.4	390.5	410.6	442.1	505.1
140°	326.1	314.7	303.3	314.7	326.1	328.9	355.5	391.0	408.7	436.0	490.4
142.5°	332.6	322.1	311.5	322.1	332.6	335.3	359.7	392.4	408.7	432.7	480.4
145°	342.7	333.5	324.3	333.5	342.7	345.0	365.3	392.4	406.0	425.5	464.6
147.5°	354.9	345.9	337.0	345.9	354.9	357.1	373.4	395.1	406.0	421.3	452.1
150°	361.4	353.4	345.3	353.4	361.4	363.5	377.7	396.5	406.0	419.0	445.0
152.5°	366.1	359.9	353.7	359.9	366.1	367.6	380.3	397.4	406.0	417.0	439.3
155°	375.5	371.1	366.5	371.1	375.5	376.7	386.4	399.4	406.0	414.8	432.5
157.5°	384.7	380.3	375.9	380.3	384.7	385.8	392.5	401.5	406.0	412.8	426.6
160°	389.0	385.6	382.2	385.6	389.0	389.9	395.3	402.4	406.0	411.9	423.6
162.5°	393.7	391.1	388.6	391.1	393.7	394.4	398.2	403.4	406.0	411.0	420.9
165°	400.1	397.8	395.4	397.8	400.1	400.7	402.5	404.8	406.0	409.5	416.6
167.5°	404.0	402.8	401.8	402.8	404.0	404.3	405.8	407.7	408.7	411.1	415.7
170°	408.2	407.0	406.0	407.0	408.2	408.5	408.6	408.6	408.7	411.1	415.7
172.5°	408.6	408.5	408.2	408.5	408.6	408.7	408.7	408.7	408.7	410.5	414.2
175°	411.2	411.2	411.2	411.2	411.2	411.2	410.4	409.3	408.7	409.9	412.2
177.5°	411.2	411.2	411.2	411.2	411.2	411.2	410.6	409.7	409.3	410.2	412.0
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



TEST NUMBER: P934439

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7	1869.7
2.5°	1804.3	1799.0	1806.0	1786.6	1806.0	1799.0	1804.3	1816.7	1806.0	1813.1	1820.1
5°	1583.2	1574.3	1546.0	1523.0	1546.0	1574.3	1583.2	1620.3	1638.0	1669.8	1712.3
7.5°	1415.1	1408.0	1401.0	1386.8	1401.0	1408.0	1415.1	1425.7	1443.4	1471.8	1503.5
10°	1377.9	1379.7	1390.3	1388.6	1390.3	1379.7	1377.9	1374.5	1369.1	1374.5	1393.9
12.5°	1473.4	1489.4	1547.8	1544.2	1547.8	1489.4	1473.4	1402.8	1355.0	1346.2	1349.6
15°	1583.2	1588.4	1600.8	1602.6	1600.8	1588.4	1583.2	1554.9	1411.6	1349.6	1330.2
17.5°	1593.8	1595.6	1604.4	1604.4	1604.4	1595.6	1593.8	1581.4	1533.6	1450.5	1340.8
20°	1584.9	1588.4	1606.2	1609.7	1606.2	1588.4	1584.9	1569.0	1542.4	1512.4	1429.3
22.5°	1581.4	1588.4	1602.6	1600.8	1602.6	1588.4	1581.4	1556.6	1533.6	1512.4	1478.8
25°	1563.7	1563.7	1565.5	1567.3	1565.5	1563.7	1563.7	1544.2	1498.3	1492.9	1473.4
27.5°	1526.6	1530.0	1540.7	1539.0	1540.7	1530.0	1526.6	1519.5	1470.0	1464.6	1450.5
30°	1492.9	1489.4	1480.6	1473.4	1480.6	1489.4	1492.9	1482.3	1432.8	1418.6	1422.2
32.5°	1436.3	1427.5	1418.6	1413.4	1418.6	1427.5	1436.3	1432.8	1395.6	1376.2	1379.7
35°	1369.1	1370.9	1369.1	1363.8	1369.1	1370.9	1369.1	1372.7	1349.6	1332.0	1330.2
37.5°	1321.3	1324.9	1323.1	1316.1	1323.1	1324.9	1321.3	1317.8	1286.0	1280.6	1284.2
40°	1271.8	1273.6	1271.8	1266.5	1271.8	1273.6	1271.8	1264.8	1220.6	1222.3	1234.7
42.5°	1224.0	1222.3	1217.0	1213.4	1217.0	1222.3	1224.0	1213.4	1156.8	1151.6	1174.5
45°	1169.2	1171.0	1160.4	1155.1	1160.4	1171.0	1169.2	1162.2	1103.8	1089.6	1105.5
47.5°	1114.4	1114.4	1105.5	1100.2	1105.5	1114.4	1114.4	1105.5	1043.7	1029.5	1038.3
50°	1056.1	1054.3	1041.9	1040.1	1041.9	1054.3	1056.1	1050.7	985.3	972.9	972.9
52.5°	988.8	988.8	990.5	994.1	990.5	988.8	988.8	990.5	932.2	919.8	916.3
55°	930.5	932.2	944.6	948.1	944.6	932.2	930.5	930.5	877.4	864.9	857.9
57.5°	870.3	870.3	879.1	879.1	879.1	870.3	870.3	866.7	815.5	804.9	801.3
60°	801.3	804.9	811.9	810.1	811.9	804.9	801.3	797.7	753.5	746.5	734.1
62.5°	728.7	732.3	734.1	730.5	734.1	732.3	728.7	718.2	691.6	686.3	670.4
65°	652.7	656.3	658.0	654.5	658.0	656.3	652.7	647.4	628.0	619.1	604.9
67.5°	574.8	573.2	571.4	578.4	571.4	573.2	574.8	567.8	555.4	548.3	528.9
70°	495.3	495.3	493.5	497.0	493.5	495.3	495.3	490.0	482.9	477.6	459.9
72.5°	410.3	408.6	415.7	410.3	415.7	408.6	410.3	408.6	405.1	399.8	382.0
75°	327.2	330.8	327.2	332.6	327.2	330.8	327.2	329.0	327.2	323.7	311.3
77.5°	249.4	253.0	249.4	249.4	249.4	253.0	249.4	251.2	251.2	251.2	240.6
80°	176.9	175.1	175.1	173.3	175.1	175.1	176.9	176.9	178.6	175.1	171.6
82.5°	113.2	111.4	111.4	115.0	111.4	111.4	113.2	115.0	111.4	111.4	111.4
85°	61.9	63.6	60.2	60.2	60.2	63.6	61.9	58.4	61.9	61.9	60.2
87.5°	23.0	21.2	21.2	21.2	21.2	21.2	23.0	24.7	24.7	24.7	26.5
90°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	13.9	18.7	21.0	18.0
92.5°	52.4	50.3	42.0	33.7	42.0	50.3	52.4	74.3	103.5	118.1	103.7
95°	178.0	171.7	146.4	121.1	146.4	171.7	178.0	233.8	308.1	345.3	291.6
97.5°	410.9	398.8	350.8	302.8	350.8	398.8	410.9	446.1	493.2	516.6	427.2
100°	577.1	562.8	505.5	448.2	505.5	562.8	577.1	574.5	571.0	569.3	470.1
102.5°	718.9	706.7	657.6	608.5	657.6	706.7	718.9	674.0	614.1	584.2	483.5
105°	884.5	877.9	851.6	825.1	851.6	877.9	884.5	783.8	649.6	582.5	485.0
107.5°	970.5	972.2	978.5	984.9	978.5	972.2	970.5	830.1	643.0	549.4	463.4
110°	992.7	999.6	1027.0	1054.5	1027.0	999.6	992.7	835.8	626.4	521.8	444.3



TEST NUMBER: P934439

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	978.6	989.1	1031.3	1073.5	1031.3	989.1	978.6	818.0	603.9	496.7	427.7
115°	930.8	945.5	1003.9	1062.5	1003.9	945.5	930.8	776.1	569.8	466.7	408.5
117.5°	864.9	881.1	946.0	1010.9	946.0	881.1	864.9	725.3	539.1	446.0	396.5
120°	820.4	836.2	899.2	962.3	899.2	836.2	820.4	692.9	522.7	437.7	392.4
122.5°	776.0	791.6	853.8	915.9	853.8	791.6	776.0	661.2	507.9	431.3	390.3
125°	717.2	731.5	788.8	846.1	788.8	731.5	717.2	619.7	489.5	424.4	388.6
127.5°	670.0	682.1	730.4	778.8	730.4	682.1	670.0	586.2	474.5	418.6	387.6
130°	640.3	651.4	696.1	740.7	696.1	651.4	640.3	565.7	466.1	416.4	388.1
132.5°	614.8	624.8	664.8	704.8	664.8	624.8	614.8	548.1	459.1	414.5	388.6
135°	579.0	587.6	622.1	656.5	622.1	587.6	579.0	523.1	448.5	411.2	388.2
137.5°	552.4	559.5	587.8	616.0	587.8	559.5	552.4	505.1	442.1	410.6	390.5
140°	531.2	537.8	564.1	590.6	564.1	537.8	531.2	490.4	436.0	408.7	391.0
142.5°	516.3	522.0	544.7	567.3	544.7	522.0	516.3	480.4	432.7	408.7	392.4
145°	494.0	498.3	515.5	532.6	515.5	498.3	494.0	464.6	425.5	406.0	392.4
147.5°	475.2	478.8	493.0	507.2	493.0	478.8	475.2	452.1	421.3	406.0	395.1
150°	464.4	467.3	478.9	490.4	478.9	467.3	464.4	445.0	419.0	406.0	396.5
152.5°	455.9	458.0	466.8	475.5	466.8	458.0	455.9	439.3	417.0	406.0	397.4
155°	445.7	447.1	452.9	458.6	452.9	447.1	445.7	432.5	414.8	406.0	399.4
157.5°	436.8	437.8	441.9	446.0	441.9	437.8	436.8	426.6	412.8	406.0	401.5
160°	432.5	433.0	435.3	437.7	435.3	433.0	432.5	423.6	411.9	406.0	402.4
162.5°	428.3	428.8	431.0	433.3	431.0	428.8	428.3	420.9	411.0	406.0	403.4
165°	421.9	422.6	424.9	427.2	424.9	422.6	421.9	416.6	409.5	406.0	404.8
167.5°	419.2	419.4	420.4	421.4	420.4	419.4	419.2	415.7	411.1	408.7	407.7
170°	419.2	419.2	419.2	419.2	419.2	419.2	419.2	415.7	411.1	408.7	408.6
172.5°	416.9	416.8	415.9	415.1	415.9	416.8	416.9	414.2	410.5	408.7	408.7
175°	413.9	413.9	413.9	413.9	413.9	413.9	413.9	412.2	409.9	408.7	409.3
177.5°	413.4	413.1	412.2	411.2	412.2	413.1	413.4	412.0	410.2	409.3	409.7
180°	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2	411.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1869.7	1869.7	1869.7	1869.7	1869.7
2.5°	1846.7	1855.6	1860.8	1867.9	1885.7
5°	1776.0	1809.6	1820.1	1846.7	1878.5
7.5°	1620.3	1722.8	1751.2	1814.9	1864.4
10°	1470.0	1572.5	1622.1	1772.4	1846.7
12.5°	1393.9	1454.0	1487.6	1698.1	1821.9
15°	1346.2	1388.6	1413.4	1599.0	1793.6
17.5°	1308.9	1339.0	1356.7	1501.7	1754.7
20°	1286.0	1300.1	1316.1	1431.0	1710.5
22.5°	1270.0	1261.2	1273.6	1381.5	1650.4
25°	1259.5	1225.8	1240.0	1342.6	1579.6
27.5°	1268.3	1194.0	1199.3	1307.2	1505.3
30°	1270.0	1155.1	1156.8	1270.0	1422.2
32.5°	1257.7	1114.4	1116.1	1224.0	1328.4
35°	1227.6	1066.6	1064.9	1171.0	1201.1
37.5°	1186.9	1015.4	1015.4	1112.7	1061.3
40°	1137.4	964.0	969.4	1036.6	937.5
42.5°	1077.2	909.2	916.3	935.7	845.5
45°	1011.8	856.1	861.5	790.7	774.8
47.5°	939.3	801.3	803.1	656.3	751.8
50°	852.6	744.7	737.7	562.5	750.0
52.5°	776.6	682.8	661.5	509.4	681.0
55°	702.2	617.3	571.4	468.7	631.5
57.5°	636.8	532.4	488.2	421.0	620.9
60°	576.6	449.3	415.7	369.7	569.6
62.5°	527.1	387.4	380.3	334.3	516.5
65°	474.1	344.9	343.1	304.2	438.7
67.5°	422.7	316.6	314.8	275.9	334.3
70°	367.9	286.5	283.0	245.9	247.6
72.5°	311.3	253.0	249.4	221.1	205.2
75°	254.8	214.1	212.3	192.8	166.3
77.5°	199.9	169.8	173.3	155.7	122.0
80°	143.3	123.8	127.4	111.4	91.9
82.5°	95.5	81.4	84.9	70.8	61.9
85°	53.1	46.0	47.8	37.1	28.3
87.5°	24.7	21.2	21.2	14.2	8.8
90°	12.1	7.8	7.2	5.0	2.8
92.5°	74.9	53.3	48.6	29.8	11.1
95°	184.2	103.7	95.2	60.8	26.5
97.5°	248.2	114.0	106.4	76.1	45.8
100°	271.4	122.6	115.7	88.2	60.7
102.5°	282.2	131.1	124.7	99.1	73.4
105°	290.0	143.8	138.4	116.7	95.0
107.5°	291.5	162.5	157.5	137.3	117.0
110°	289.3	173.0	168.4	150.1	131.9



TEST NUMBER: P934439

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	289.4	185.8	181.4	164.0	146.6
115°	292.1	204.8	200.8	184.7	168.6
117.5°	297.5	223.2	219.6	205.0	190.4
120°	301.9	234.0	230.6	216.8	203.1
122.5°	308.2	246.7	243.2	229.4	215.6
125°	316.8	263.0	259.8	247.2	234.6
127.5°	325.4	278.8	275.6	262.8	250.0
130°	331.6	289.2	285.8	272.1	258.3
132.5°	336.7	297.8	294.4	280.6	266.9
135°	342.2	307.7	304.6	292.1	279.6
137.5°	350.4	320.4	317.2	304.9	292.5
140°	355.5	328.9	326.1	314.7	303.3
142.5°	359.7	335.3	332.6	322.1	311.5
145°	365.3	345.0	342.7	333.5	324.3
147.5°	373.4	357.1	354.9	345.9	337.0
150°	377.7	363.5	361.4	353.4	345.3
152.5°	380.3	367.6	366.1	359.9	353.7
155°	386.4	376.7	375.5	371.1	366.5
157.5°	392.5	385.8	384.7	380.3	375.9
160°	395.3	389.9	389.0	385.6	382.2
162.5°	398.2	394.4	393.7	391.1	388.6
165°	402.5	400.7	400.1	397.8	395.4
167.5°	405.8	404.3	404.0	402.8	401.8
170°	408.6	408.5	408.2	407.0	406.0
172.5°	408.7	408.7	408.6	408.5	408.2
175°	410.4	411.2	411.2	411.2	411.2
177.5°	410.6	411.2	411.2	411.2	411.2
180°	411.2	411.2	411.2	411.2	411.2



TEST NUMBER: P934439
 CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-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	14.55	15.56	15.37	16.40	17.45	17.38	18.38	18.20	19.23	20.28
	3H	15.04	15.94	15.87	16.80	17.87	18.73	19.64	19.56	20.49	21.56
	4H	15.24	16.09	16.09	16.95	18.04	19.18	20.03	20.03	20.90	21.98
	6H	15.36	16.15	16.23	17.02	18.12	19.47	20.26	20.33	21.13	22.23
	8H	15.37	16.12	16.24	17.01	18.11	19.55	20.30	20.42	21.19	22.29
	12H	15.35	16.06	16.22	16.94	18.07	19.59	20.31	20.47	21.19	22.31
4H	2H	15.60	16.45	16.46	17.32	18.40	17.80	18.66	18.66	19.52	20.60
	3H	16.64	17.35	17.51	18.25	19.35	19.32	20.03	20.19	20.93	22.03
	4H	16.92	17.57	17.80	18.46	19.59	19.85	20.50	20.73	21.39	22.52
	6H	17.06	17.62	17.95	18.53	19.66	20.23	20.79	21.12	21.70	22.83
	8H	17.07	17.59	17.96	18.50	19.64	20.33	20.86	21.23	21.77	22.91
	12H	17.04	17.51	17.96	18.44	19.59	20.40	20.87	21.32	21.80	22.95
8H	4H	17.39	17.91	18.29	18.82	19.96	19.99	20.51	20.89	21.42	22.57
	6H	17.66	18.09	18.58	19.04	20.18	20.43	20.86	21.36	21.81	22.96
	8H	17.70	18.08	18.63	19.03	20.19	20.58	20.97	21.52	21.91	23.07
	12H	17.69	18.03	18.63	18.96	20.17	20.69	21.03	21.63	21.96	23.17
12H	4H	17.40	17.87	18.32	18.80	19.95	19.96	20.43	20.88	21.36	22.51
	6H	17.72	18.10	18.65	19.04	20.20	20.43	20.81	21.36	21.76	22.92
	8H	17.79	18.13	18.73	19.06	20.28	20.60	20.93	21.54	21.87	23.08