

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: P933966

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933966
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

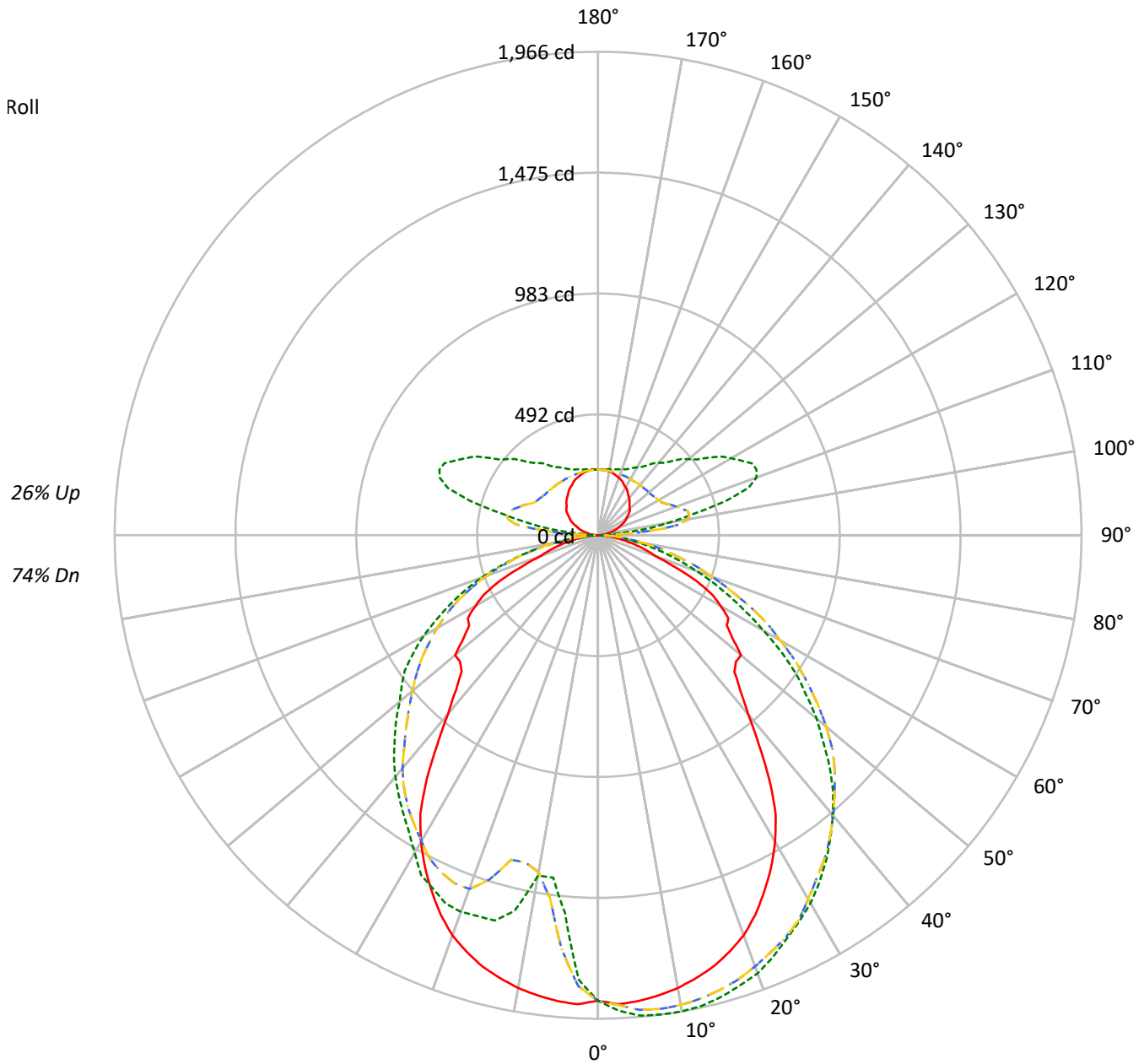
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6640.5 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ··· 90°-270° - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8781	8781	8781	8781
5°	8847	8864	8847	6969
10°	8787	8731	8787	6242
15°	8692	8542	8692	7133
20°	8510	8318	8510	7148
25°	8138	7991	8138	6996
30°	7657	7720	7657	6664
35°	6826	7376	6826	6298
40°	5688	6972	5688	6022
45°	5083	6499	5083	5705
50°	5399	5935	5399	5386
55°	5081	5328	5081	5202
60°	5237	4525	5237	4764
65°	4748	3741	4748	4181
70°	3288	2981	3288	3505
75°	2882	2203	2882	2638
80°	2323	1457	2323	1587
85°	1332	771	1332	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7789 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	2.6
10°-20°	485.1	7.3
20°-30°	749.8	11.3
30°-40°	895.1	13.5
40°-50°	900.4	13.6
50°-60°	783.5	11.8
60°-70°	555.5	8.4
70°-80°	293.9	4.4
80°-90°	74.2	1.1
90°-100°	130.2	2.0
100°-110°	342.5	5.2
110°-120°	355.1	5.3
120°-130°	284.8	4.3
130°-140°	223.5	3.4
140°-150°	171.5	2.6
150°-160°	123.5	1.9
160°-170°	75.6	1.1
170°-180°	25.5	0.4
0°-30°	1405.7	21.2
0°-40°	2300.8	34.6
0°-60°	3984.6	60.0
0°-90°	4908.2	73.9
90°-120°	827.8	12.5
90°-150°	1507.7	22.7
90°-180°	1732.0	26.1
0°-180°	6640.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1893	1893	1893	1893	1893	
5°	1902	1961	1902	1542	1902	180
15°	1816	1943	1816	1622	1816	511
25°	1599	1812	1599	1586	1599	734
35°	1216	1617	1216	1380	1216	752
45°	784	1332	784	1169	784	628
55°	639	983	639	960	639	587
65°	444	593	444	662	444	424
75°	168	281	168	337	168	177
85°	29	72	29	61	29	39
90°	2	7	2	7	2	3
95°	17	79	17	79	17	19
105°	62	536	62	536	62	65
115°	110	690	110	690	110	108
125°	152	550	152	550	152	135
135°	182	427	182	427	182	141
145°	211	346	211	346	211	132
155°	238	298	238	298	238	109
165°	257	278	257	278	257	73
175°	267	269	267	269	267	25
180°	267	267	267	267	267	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1908.7	1908.7	1919.5	1923.0	1923.0	1917.7	1912.3	1917.7	1933.8	1939.2	1937.4
5°	1901.6	1915.9	1935.6	1939.2	1942.7	1940.9	1937.4	1940.9	1958.9	1962.4	1964.2
7.5°	1887.2	1914.1	1939.2	1944.5	1949.9	1944.5	1942.7	1946.3	1964.2	1967.8	1967.8
10°	1869.3	1906.9	1935.6	1939.2	1944.5	1939.2	1939.2	1946.3	1964.2	1967.8	1969.6
12.5°	1844.3	1896.2	1923.0	1926.6	1933.8	1932.0	1930.2	1937.4	1955.3	1958.9	1958.9
15°	1815.6	1876.5	1901.6	1905.1	1917.7	1914.1	1914.1	1921.3	1940.9	1946.3	1944.5
17.5°	1776.2	1851.4	1880.1	1885.4	1894.4	1892.6	1894.4	1901.6	1919.5	1923.0	1924.8
20°	1731.4	1817.4	1851.4	1856.8	1865.7	1865.7	1865.7	1874.7	1892.6	1899.8	1899.8
22.5°	1670.6	1781.6	1817.4	1821.0	1831.7	1831.7	1835.3	1847.8	1864.0	1865.7	1865.7
25°	1598.9	1742.2	1772.6	1783.4	1794.1	1799.5	1804.9	1812.0	1817.4	1815.6	1817.4
27.5°	1523.7	1692.1	1731.4	1738.6	1752.9	1758.3	1765.5	1767.3	1769.0	1774.4	1770.8
30°	1439.6	1622.2	1681.3	1688.5	1711.7	1715.3	1708.2	1711.7	1720.7	1724.3	1727.9
32.5°	1344.7	1518.4	1629.4	1645.5	1667.0	1656.2	1654.4	1659.8	1674.1	1674.1	1677.7
35°	1215.7	1437.8	1581.0	1595.4	1611.5	1598.9	1606.1	1607.9	1616.8	1622.2	1620.4
37.5°	1074.3	1367.9	1530.9	1541.6	1554.2	1538.1	1548.8	1554.2	1561.3	1557.8	1557.8
40°	949.0	1258.7	1471.8	1479.0	1489.7	1477.2	1487.9	1491.5	1495.1	1491.5	1489.7
42.5°	855.9	1138.7	1409.1	1418.1	1410.9	1419.9	1423.5	1430.6	1425.2	1418.1	1418.1
45°	784.3	1106.5	1341.1	1351.8	1341.1	1355.4	1360.8	1360.8	1344.7	1341.1	1339.3
47.5°	761.0	1042.1	1273.0	1273.0	1267.7	1285.6	1294.5	1282.0	1265.9	1260.5	1260.5
50°	759.2	970.5	1179.9	1172.8	1197.8	1219.3	1210.4	1197.8	1185.3	1165.6	1165.6
52.5°	689.4	882.8	1060.0	1086.8	1126.2	1138.7	1124.4	1111.9	1090.4	1081.4	1074.3
55°	639.3	791.5	950.8	1004.5	1045.7	1061.8	1035.0	1022.4	990.2	984.8	981.3
57.5°	628.5	658.9	850.5	918.6	968.7	966.9	950.8	927.5	900.7	895.3	893.5
60°	576.6	476.3	743.1	823.7	875.6	870.2	855.9	834.4	809.4	805.8	802.2
62.5°	522.9	345.6	621.3	712.7	786.1	784.3	771.8	739.5	721.6	712.7	705.5
65°	444.1	290.1	442.3	592.7	698.3	701.9	675.1	651.8	632.1	621.3	619.6
67.5°	338.4	236.4	299.0	494.2	614.2	610.6	576.6	565.8	540.8	535.4	524.7
70°	250.7	157.6	207.7	401.1	531.8	522.9	496.0	483.5	460.2	447.7	440.5
72.5°	207.7	127.1	152.2	311.6	447.7	436.9	413.6	399.3	379.6	368.9	361.7
75°	168.3	134.3	116.4	231.0	363.5	356.3	334.8	320.5	304.4	290.1	291.9
77.5°	123.6	125.3	93.1	170.1	288.3	277.5	265.0	247.1	239.9	225.6	225.6
80°	93.1	98.5	69.8	116.4	207.7	207.7	197.0	184.4	171.9	164.7	164.7
82.5°	62.7	62.7	51.9	73.4	141.5	136.1	128.9	125.3	118.2	114.6	114.6
85°	28.6	35.8	32.2	44.8	77.0	80.6	80.6	77.0	75.2	71.6	73.4
87.5°	9.0	16.1	19.7	25.1	39.4	41.2	43.0	43.0	43.0	44.8	44.8
90°	1.8	3.2	4.7	5.0	7.9	11.7	13.6	12.1	9.0	6.8	6.8
92.5°	7.2	19.3	31.6	34.6	48.7	67.4	76.7	67.2	48.3	34.1	32.8
95°	17.2	39.5	61.9	67.4	119.7	189.4	224.4	200.2	151.9	115.7	111.6
97.5°	29.8	49.5	69.1	74.0	161.2	277.5	335.7	320.5	290.0	267.1	259.3
100°	39.5	57.3	75.1	79.6	176.4	305.4	369.9	371.1	373.3	375.0	365.7
102.5°	47.7	64.4	81.0	85.1	183.4	314.3	379.7	399.1	438.0	467.2	459.2
105°	61.7	75.8	90.0	93.5	188.6	315.2	378.6	422.2	509.4	574.8	570.5
107.5°	76.0	89.2	102.3	105.6	189.4	301.2	357.1	417.8	539.5	630.7	631.8
110°	85.8	97.6	109.5	112.5	188.0	288.7	339.1	407.1	543.1	645.1	649.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	95.3	106.5	117.8	120.7	188.1	277.9	322.8	392.4	531.5	635.9	642.8
115°	109.6	120.0	130.4	133.0	189.8	265.5	303.2	370.3	504.4	605.0	614.5
117.5°	123.7	133.2	142.7	145.1	193.4	257.7	289.8	350.3	471.3	562.1	572.6
120°	132.0	140.9	149.9	152.1	196.3	255.1	284.4	339.7	450.3	533.2	543.4
122.5°	140.0	149.1	158.1	160.4	200.4	253.6	280.3	330.1	429.7	504.3	514.4
125°	152.5	160.7	168.9	170.9	205.9	252.6	275.8	318.1	402.7	466.1	475.4
127.5°	162.5	170.7	179.1	181.1	211.5	251.9	272.1	308.4	381.0	435.5	443.4
130°	167.9	176.8	185.7	187.9	215.5	252.3	270.7	303.0	367.6	416.1	423.3
132.5°	173.4	182.4	191.2	193.5	218.8	252.6	269.4	298.3	356.2	399.6	406.1
135°	181.7	189.8	198.0	200.0	222.4	252.3	267.3	291.5	339.9	376.3	381.9
137.5°	190.1	198.1	206.2	208.2	227.8	253.8	266.9	287.4	328.3	359.0	363.6
140°	197.1	204.5	211.9	213.8	231.1	254.1	265.6	283.4	318.7	345.2	349.5
142.5°	202.5	209.3	216.2	217.9	233.9	255.1	265.6	281.2	312.3	335.6	339.2
145°	210.8	216.8	222.7	224.2	237.4	255.1	263.8	276.6	302.0	321.1	323.8
147.5°	219.0	224.8	230.6	232.1	242.6	256.8	263.8	273.9	293.8	308.8	311.1
150°	224.4	229.6	234.8	236.2	245.4	257.7	263.8	272.3	289.2	301.8	303.7
152.5°	229.9	233.9	237.9	238.9	247.2	258.3	263.8	271.0	285.4	296.3	297.7
155°	238.2	241.1	244.1	244.8	251.1	259.6	263.8	269.6	281.0	289.6	290.5
157.5°	244.2	247.1	250.0	250.7	255.1	260.9	263.8	268.3	277.2	283.9	284.5
160°	248.4	250.6	252.8	253.4	256.9	261.5	263.8	267.7	275.3	281.0	281.4
162.5°	252.5	254.2	255.8	256.2	258.7	262.1	263.8	267.1	273.5	278.4	278.7
165°	257.0	258.6	260.1	260.4	261.6	263.1	263.8	266.2	270.7	274.2	274.6
167.5°	261.2	261.9	262.6	262.8	263.8	265.0	265.6	267.2	270.2	272.4	272.6
170°	263.8	264.6	265.3	265.5	265.5	265.6	265.6	267.2	270.2	272.4	272.4
172.5°	265.3	265.5	265.6	265.6	265.6	265.6	265.6	266.8	269.2	271.0	270.8
175°	267.3	267.3	267.3	267.3	266.7	266.0	265.6	266.4	267.9	269.0	269.0
177.5°	267.3	267.3	267.3	267.3	266.8	266.3	266.0	266.6	267.8	268.7	268.5
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1940.9	1935.6	1940.9	1937.4	1939.2	1933.8	1917.7	1912.3	1917.7	1923.0	1923.0
5°	1964.2	1960.6	1964.2	1964.2	1962.4	1958.9	1940.9	1937.4	1940.9	1942.7	1939.2
7.5°	1971.4	1966.0	1971.4	1967.8	1967.8	1964.2	1946.3	1942.7	1944.5	1949.9	1944.5
10°	1971.4	1966.0	1971.4	1969.6	1967.8	1964.2	1946.3	1939.2	1939.2	1944.5	1939.2
12.5°	1962.4	1958.9	1962.4	1958.9	1958.9	1955.3	1937.4	1930.2	1932.0	1933.8	1926.6
15°	1948.1	1942.7	1948.1	1944.5	1946.3	1940.9	1921.3	1914.1	1914.1	1917.7	1905.1
17.5°	1926.6	1919.5	1926.6	1924.8	1923.0	1919.5	1901.6	1894.4	1892.6	1894.4	1885.4
20°	1901.6	1896.2	1901.6	1899.8	1899.8	1892.6	1874.7	1865.7	1865.7	1865.7	1856.8
22.5°	1862.2	1856.8	1862.2	1865.7	1865.7	1864.0	1847.8	1835.3	1831.7	1831.7	1821.0
25°	1817.4	1812.0	1817.4	1817.4	1815.6	1817.4	1812.0	1804.9	1799.5	1794.1	1783.4
27.5°	1774.4	1770.8	1774.4	1770.8	1774.4	1769.0	1767.3	1765.5	1758.3	1752.9	1738.6
30°	1731.4	1727.9	1731.4	1727.9	1724.3	1720.7	1711.7	1708.2	1715.3	1711.7	1688.5
32.5°	1677.7	1674.1	1677.7	1677.7	1674.1	1674.1	1659.8	1654.4	1656.2	1667.0	1645.5
35°	1622.2	1616.8	1622.2	1620.4	1622.2	1616.8	1607.9	1606.1	1598.9	1611.5	1595.4
37.5°	1557.8	1552.4	1557.8	1557.8	1557.8	1561.3	1554.2	1548.8	1538.1	1554.2	1541.6
40°	1491.5	1484.3	1491.5	1489.7	1491.5	1495.1	1491.5	1487.9	1477.2	1489.7	1479.0
42.5°	1416.3	1414.5	1416.3	1418.1	1418.1	1425.2	1430.6	1423.5	1419.9	1410.9	1418.1
45°	1335.7	1332.1	1335.7	1339.3	1341.1	1344.7	1360.8	1360.8	1355.4	1341.1	1351.8
47.5°	1249.8	1240.8	1249.8	1260.5	1260.5	1265.9	1282.0	1294.5	1285.6	1267.7	1273.0
50°	1158.4	1160.2	1158.4	1165.6	1165.6	1185.3	1197.8	1210.4	1219.3	1197.8	1172.8
52.5°	1068.9	1067.2	1068.9	1074.3	1081.4	1090.4	1111.9	1124.4	1138.7	1126.2	1086.8
55°	979.5	983.1	979.5	981.3	984.8	990.2	1022.4	1035.0	1061.8	1045.7	1004.5
57.5°	889.9	884.6	889.9	893.5	895.3	900.7	927.5	950.8	966.9	968.7	918.6
60°	786.1	778.9	786.1	802.2	805.8	809.4	834.4	855.9	870.2	875.6	823.7
62.5°	694.8	682.2	694.8	705.5	712.7	721.6	739.5	771.8	784.3	786.1	712.7
65°	598.1	592.7	598.1	619.6	621.3	632.1	651.8	675.1	701.9	698.3	592.7
67.5°	510.3	510.3	510.3	524.7	535.4	540.8	565.8	576.6	610.6	614.2	494.2
70°	429.7	428.0	429.7	440.5	447.7	460.2	483.5	496.0	522.9	531.8	401.1
72.5°	352.8	351.0	352.8	361.7	368.9	379.6	399.3	413.6	436.9	447.7	311.6
75°	284.7	281.1	284.7	291.9	290.1	304.4	320.5	334.8	356.3	363.5	231.0
77.5°	218.5	218.5	218.5	225.6	225.6	239.9	247.1	265.0	277.5	288.3	170.1
80°	162.9	161.2	162.9	164.7	164.7	171.9	184.4	197.0	207.7	207.7	116.4
82.5°	114.6	111.0	114.6	114.6	114.6	118.2	125.3	128.9	136.1	141.5	73.4
85°	71.6	71.6	71.6	73.4	71.6	75.2	77.0	80.6	80.6	77.0	44.8
87.5°	46.6	44.8	46.6	44.8	44.8	43.0	43.0	43.0	41.2	39.4	25.1
90°	6.8	6.8	6.8	6.8	6.8	9.0	12.1	13.6	11.7	7.9	5.0
92.5°	27.3	21.8	27.3	32.8	34.1	48.3	67.2	76.7	67.4	48.7	34.6
95°	95.2	78.7	95.2	111.6	115.7	151.9	200.2	224.4	189.4	119.7	67.4
97.5°	227.9	196.7	227.9	259.3	267.1	290.0	320.5	335.7	277.5	161.2	74.0
100°	328.5	291.2	328.5	365.7	375.0	373.3	371.1	369.9	305.4	176.4	79.6
102.5°	427.3	395.5	427.3	459.2	467.2	438.0	399.1	379.7	314.3	183.4	85.1
105°	553.4	536.2	553.4	570.5	574.8	509.4	422.2	378.6	315.2	188.6	93.5
107.5°	635.9	640.1	635.9	631.8	630.7	539.5	417.8	357.1	301.2	189.4	105.6
110°	667.4	685.3	667.4	649.5	645.1	543.1	407.1	339.1	288.7	188.0	112.5



TEST NUMBER: P933966

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	670.2	697.6	670.2	642.8	635.9	531.5	392.4	322.8	277.9	188.1	120.7
115°	652.5	690.5	652.5	614.5	605.0	504.4	370.3	303.2	265.5	189.8	133.0
117.5°	614.8	657.0	614.8	572.6	562.1	471.3	350.3	289.8	257.7	193.4	145.1
120°	584.4	625.4	584.4	543.4	533.2	450.3	339.7	284.4	255.1	196.3	152.1
122.5°	554.8	595.2	554.8	514.4	504.3	429.7	330.1	280.3	253.6	200.4	160.4
125°	512.7	549.9	512.7	475.4	466.1	402.7	318.1	275.8	252.6	205.9	170.9
127.5°	474.7	506.1	474.7	443.4	435.5	381.0	308.4	272.1	251.9	211.5	181.1
130°	452.3	481.3	452.3	423.3	416.1	367.6	303.0	270.7	252.3	215.5	187.9
132.5°	432.1	458.0	432.1	406.1	399.6	356.2	298.3	269.4	252.6	218.8	193.5
135°	404.2	426.6	404.2	381.9	376.3	339.9	291.5	267.3	252.3	222.4	200.0
137.5°	381.9	400.3	381.9	363.6	359.0	328.3	287.4	266.9	253.8	227.8	208.2
140°	366.6	383.8	366.6	349.5	345.2	318.7	283.4	265.6	254.1	231.1	213.8
142.5°	354.0	368.7	354.0	339.2	335.6	312.3	281.2	265.6	255.1	233.9	217.9
145°	335.0	346.1	335.0	323.8	321.1	302.0	276.6	263.8	255.1	237.4	224.2
147.5°	320.3	329.7	320.3	311.1	308.8	293.8	273.9	263.8	256.8	242.6	232.1
150°	311.2	318.7	311.2	303.7	301.8	289.2	272.3	263.8	257.7	245.4	236.2
152.5°	303.3	309.0	303.3	297.7	296.3	285.4	271.0	263.8	258.3	247.2	238.9
155°	294.3	298.0	294.3	290.5	289.6	281.0	269.6	263.8	259.6	251.1	244.8
157.5°	287.2	289.8	287.2	284.5	283.9	277.2	268.3	263.8	260.9	255.1	250.7
160°	282.9	284.4	282.9	281.4	281.0	275.3	267.7	263.8	261.5	256.9	253.4
162.5°	280.1	281.6	280.1	278.7	278.4	273.5	267.1	263.8	262.1	258.7	256.2
165°	276.1	277.6	276.1	274.6	274.2	270.7	266.2	263.8	263.1	261.6	260.4
167.5°	273.2	273.9	273.2	272.6	272.4	270.2	267.2	265.6	265.0	263.8	262.8
170°	272.4	272.4	272.4	272.4	272.4	270.2	267.2	265.6	265.6	265.5	265.5
172.5°	270.3	269.8	270.3	270.8	271.0	269.2	266.8	265.6	265.6	265.6	265.6
175°	269.0	269.0	269.0	269.0	269.0	267.9	266.4	265.6	266.0	266.7	267.3
177.5°	267.9	267.3	267.9	268.5	268.7	267.8	266.6	266.0	266.3	266.8	267.3
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



TEST NUMBER: P933966

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1919.5	1908.7	1908.7	1890.8	1883.6	1878.3	1869.3	1842.5	1835.3	1828.1	1838.9
5°	1935.6	1915.9	1901.6	1869.3	1842.5	1831.7	1797.7	1733.2	1690.3	1658.0	1640.1
7.5°	1939.2	1914.1	1887.2	1837.1	1772.6	1744.0	1640.1	1521.9	1489.7	1461.1	1443.2
10°	1935.6	1906.9	1869.3	1794.1	1641.9	1591.8	1487.9	1410.9	1391.2	1385.9	1391.2
12.5°	1923.0	1896.2	1844.3	1718.9	1505.8	1471.8	1410.9	1366.2	1362.6	1371.5	1419.9
15°	1901.6	1876.5	1815.6	1618.6	1430.6	1405.6	1362.6	1346.5	1366.2	1428.8	1573.9
17.5°	1880.1	1851.4	1776.2	1520.2	1373.3	1355.4	1325.0	1357.2	1468.2	1552.4	1600.7
20°	1851.4	1817.4	1731.4	1448.5	1332.1	1316.0	1301.7	1446.7	1530.9	1561.3	1588.2
22.5°	1817.4	1781.6	1670.6	1398.4	1289.2	1276.6	1285.6	1496.9	1530.9	1552.4	1575.7
25°	1772.6	1742.2	1598.9	1359.0	1255.1	1240.8	1274.8	1491.5	1511.2	1516.6	1563.1
27.5°	1731.4	1692.1	1523.7	1323.2	1214.0	1208.6	1283.8	1468.2	1482.5	1487.9	1538.1
30°	1681.3	1622.2	1439.6	1285.6	1171.0	1169.2	1285.6	1439.6	1436.0	1450.3	1500.5
32.5°	1629.4	1518.4	1344.7	1239.0	1129.8	1128.0	1273.0	1396.6	1393.0	1412.7	1450.3
35°	1581.0	1437.8	1215.7	1185.3	1077.9	1079.7	1242.6	1346.5	1348.3	1366.2	1389.4
37.5°	1530.9	1367.9	1074.3	1126.2	1027.8	1027.8	1201.4	1299.9	1296.3	1301.7	1333.9
40°	1471.8	1258.7	949.0	1049.3	981.3	975.9	1151.3	1249.8	1237.2	1235.4	1280.2
42.5°	1409.1	1138.7	855.9	947.2	927.5	920.4	1090.4	1188.9	1165.6	1171.0	1228.3
45°	1341.1	1106.5	784.3	800.4	872.0	866.7	1024.2	1119.1	1102.9	1117.3	1176.4
47.5°	1273.0	1042.1	761.0	664.3	812.9	811.2	950.8	1051.1	1042.1	1056.5	1119.1
50°	1179.9	970.5	759.2	569.4	746.7	753.9	863.1	984.8	984.8	997.4	1063.6
52.5°	1060.0	882.8	689.4	515.7	669.7	691.2	786.1	927.5	931.1	943.7	1002.7
55°	950.8	791.5	639.3	474.5	578.4	624.9	710.9	868.5	875.6	888.1	941.9
57.5°	850.5	658.9	628.5	426.2	494.2	539.0	644.6	811.2	814.7	825.5	877.4
60°	743.1	476.3	576.6	374.2	420.8	454.8	583.7	743.1	755.6	762.8	807.6
62.5°	621.3	345.6	522.9	338.4	385.0	392.1	533.6	678.6	694.8	700.1	727.0
65°	442.3	290.1	444.1	308.0	347.4	349.2	479.9	612.4	626.7	635.7	655.4
67.5°	299.0	236.4	338.4	279.3	318.7	320.5	428.0	535.4	555.1	562.3	574.8
70°	207.7	157.6	250.7	248.9	286.5	290.1	372.4	465.6	483.5	488.8	496.0
72.5°	152.2	127.1	207.7	223.8	252.5	256.1	315.1	386.8	404.7	410.1	413.6
75°	116.4	134.3	168.3	195.2	214.9	216.7	257.8	315.1	327.7	331.3	333.1
77.5°	93.1	125.3	123.6	157.6	175.5	171.9	202.3	243.5	254.3	254.3	254.3
80°	69.8	98.5	93.1	112.8	128.9	125.3	145.0	173.7	177.3	180.9	179.1
82.5°	51.9	62.7	62.7	71.6	85.9	82.4	96.7	112.8	112.8	112.8	116.4
85°	32.2	35.8	28.6	37.6	48.3	46.6	53.7	60.9	62.7	62.7	59.1
87.5°	19.7	16.1	9.0	14.3	21.5	21.5	25.1	26.9	25.1	25.1	25.1
90°	4.7	3.2	1.8	3.2	4.7	5.0	7.9	11.7	13.6	12.1	9.0
92.5°	31.6	19.3	7.2	19.3	31.6	34.6	48.7	67.4	76.7	67.2	48.3
95°	61.9	39.5	17.2	39.5	61.9	67.4	119.7	189.4	224.4	200.2	151.9
97.5°	69.1	49.5	29.8	49.5	69.1	74.0	161.2	277.5	335.7	320.5	290.0
100°	75.1	57.3	39.5	57.3	75.1	79.6	176.4	305.4	369.9	371.1	373.3
102.5°	81.0	64.4	47.7	64.4	81.0	85.1	183.4	314.3	379.7	399.1	438.0
105°	90.0	75.8	61.7	75.8	90.0	93.5	188.6	315.2	378.6	422.2	509.4
107.5°	102.3	89.2	76.0	89.2	102.3	105.6	189.4	301.2	357.1	417.8	539.5
110°	109.5	97.6	85.8	97.6	109.5	112.5	188.0	288.7	339.1	407.1	543.1



TEST NUMBER: P933966

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	117.8	106.5	95.3	106.5	117.8	120.7	188.1	277.9	322.8	392.4	531.5
115°	130.4	120.0	109.6	120.0	130.4	133.0	189.8	265.5	303.2	370.3	504.4
117.5°	142.7	133.2	123.7	133.2	142.7	145.1	193.4	257.7	289.8	350.3	471.3
120°	149.9	140.9	132.0	140.9	149.9	152.1	196.3	255.1	284.4	339.7	450.3
122.5°	158.1	149.1	140.0	149.1	158.1	160.4	200.4	253.6	280.3	330.1	429.7
125°	168.9	160.7	152.5	160.7	168.9	170.9	205.9	252.6	275.8	318.1	402.7
127.5°	179.1	170.7	162.5	170.7	179.1	181.1	211.5	251.9	272.1	308.4	381.0
130°	185.7	176.8	167.9	176.8	185.7	187.9	215.5	252.3	270.7	303.0	367.6
132.5°	191.2	182.4	173.4	182.4	191.2	193.5	218.8	252.6	269.4	298.3	356.2
135°	198.0	189.8	181.7	189.8	198.0	200.0	222.4	252.3	267.3	291.5	339.9
137.5°	206.2	198.1	190.1	198.1	206.2	208.2	227.8	253.8	266.9	287.4	328.3
140°	211.9	204.5	197.1	204.5	211.9	213.8	231.1	254.1	265.6	283.4	318.7
142.5°	216.2	209.3	202.5	209.3	216.2	217.9	233.9	255.1	265.6	281.2	312.3
145°	222.7	216.8	210.8	216.8	222.7	224.2	237.4	255.1	263.8	276.6	302.0
147.5°	230.6	224.8	219.0	224.8	230.6	232.1	242.6	256.8	263.8	273.9	293.8
150°	234.8	229.6	224.4	229.6	234.8	236.2	245.4	257.7	263.8	272.3	289.2
152.5°	237.9	233.9	229.9	233.9	237.9	238.9	247.2	258.3	263.8	271.0	285.4
155°	244.1	241.1	238.2	241.1	244.1	244.8	251.1	259.6	263.8	269.6	281.0
157.5°	250.0	247.1	244.2	247.1	250.0	250.7	255.1	260.9	263.8	268.3	277.2
160°	252.8	250.6	248.4	250.6	252.8	253.4	256.9	261.5	263.8	267.7	275.3
162.5°	255.8	254.2	252.5	254.2	255.8	256.2	258.7	262.1	263.8	267.1	273.5
165°	260.1	258.6	257.0	258.6	260.1	260.4	261.6	263.1	263.8	266.2	270.7
167.5°	262.6	261.9	261.2	261.9	262.6	262.8	263.8	265.0	265.6	267.2	270.2
170°	265.3	264.6	263.8	264.6	265.3	265.5	265.5	265.6	265.6	267.2	270.2
172.5°	265.6	265.5	265.3	265.5	265.6	265.6	265.6	265.6	265.6	266.8	269.2
175°	267.3	267.3	267.3	267.3	267.3	267.3	266.7	266.0	265.6	266.4	267.9
177.5°	267.3	267.3	267.3	267.3	267.3	267.3	266.8	266.3	266.0	266.6	267.8
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



TEST NUMBER: P933966

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1826.3	1821.0	1828.1	1808.4	1828.1	1821.0	1826.3	1838.9	1828.1	1835.3	1842.5
5°	1602.5	1593.6	1564.9	1541.6	1564.9	1593.6	1602.5	1640.1	1658.0	1690.3	1733.2
7.5°	1432.4	1425.2	1418.1	1403.8	1418.1	1425.2	1432.4	1443.2	1461.1	1489.7	1521.9
10°	1394.8	1396.6	1407.3	1405.6	1407.3	1396.6	1394.8	1391.2	1385.9	1391.2	1410.9
12.5°	1491.5	1507.6	1566.7	1563.1	1566.7	1507.6	1491.5	1419.9	1371.5	1362.6	1366.2
15°	1602.5	1607.9	1620.4	1622.2	1620.4	1607.9	1602.5	1573.9	1428.8	1366.2	1346.5
17.5°	1613.3	1615.1	1624.0	1624.0	1624.0	1615.1	1613.3	1600.7	1552.4	1468.2	1357.2
20°	1604.3	1607.9	1625.8	1629.4	1625.8	1607.9	1604.3	1588.2	1561.3	1530.9	1446.7
22.5°	1600.7	1607.9	1622.2	1620.4	1622.2	1607.9	1600.7	1575.7	1552.4	1530.9	1496.9
25°	1582.8	1582.8	1584.6	1586.4	1584.6	1582.8	1582.8	1563.1	1516.6	1511.2	1491.5
27.5°	1545.2	1548.8	1559.5	1557.8	1559.5	1548.8	1545.2	1538.1	1487.9	1482.5	1468.2
30°	1511.2	1507.6	1498.7	1491.5	1498.7	1507.6	1511.2	1500.5	1450.3	1436.0	1439.6
32.5°	1453.9	1444.9	1436.0	1430.6	1436.0	1444.9	1453.9	1450.3	1412.7	1393.0	1396.6
35°	1385.9	1387.6	1385.9	1380.5	1385.9	1387.6	1385.9	1389.4	1366.2	1348.3	1346.5
37.5°	1337.5	1341.1	1339.3	1332.1	1339.3	1341.1	1337.5	1333.9	1301.7	1296.3	1299.9
40°	1287.4	1289.2	1287.4	1282.0	1287.4	1289.2	1287.4	1280.2	1235.4	1237.2	1249.8
42.5°	1239.0	1237.2	1231.9	1228.3	1231.9	1237.2	1239.0	1228.3	1171.0	1165.6	1188.9
45°	1183.5	1185.3	1174.6	1169.2	1174.6	1185.3	1183.5	1176.4	1117.3	1102.9	1119.1
47.5°	1128.0	1128.0	1119.1	1113.7	1119.1	1128.0	1128.0	1119.1	1056.5	1042.1	1051.1
50°	1068.9	1067.2	1054.7	1052.9	1054.7	1067.2	1068.9	1063.6	997.4	984.8	984.8
52.5°	1001.0	1001.0	1002.7	1006.3	1002.7	1001.0	1001.0	1002.7	943.7	931.1	927.5
55°	941.9	943.7	956.2	959.8	956.2	943.7	941.9	941.9	888.1	875.6	868.5
57.5°	881.0	881.0	889.9	889.9	889.9	881.0	881.0	877.4	825.5	814.7	811.2
60°	811.2	814.7	821.9	820.1	821.9	814.7	811.2	807.6	762.8	755.6	743.1
62.5°	737.7	741.3	743.1	739.5	743.1	741.3	737.7	727.0	700.1	694.8	678.6
65°	660.7	664.3	666.1	662.5	666.1	664.3	660.7	655.4	635.7	626.7	612.4
67.5°	582.0	580.2	578.4	585.5	578.4	580.2	582.0	574.8	562.3	555.1	535.4
70°	501.4	501.4	499.6	503.2	499.6	501.4	501.4	496.0	488.8	483.5	465.6
72.5°	415.4	413.6	420.8	415.4	420.8	413.6	415.4	413.6	410.1	404.7	386.8
75°	331.3	334.8	331.3	336.6	331.3	334.8	331.3	333.1	331.3	327.7	315.1
77.5°	252.5	256.1	252.5	252.5	252.5	256.1	252.5	254.3	254.3	254.3	243.5
80°	179.1	177.3	177.3	175.5	177.3	177.3	179.1	179.1	180.9	177.3	173.7
82.5°	114.6	112.8	112.8	116.4	112.8	112.8	114.6	116.4	112.8	112.8	112.8
85°	62.7	64.5	60.9	60.9	60.9	64.5	62.7	59.1	62.7	62.7	60.9
87.5°	23.3	21.5	21.5	21.5	21.5	21.5	23.3	25.1	25.1	25.1	26.9
90°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.0	12.1	13.6	11.7
92.5°	34.1	32.8	27.3	21.8	27.3	32.8	34.1	48.3	67.2	76.7	67.4
95°	115.7	111.6	95.2	78.7	95.2	111.6	115.7	151.9	200.2	224.4	189.4
97.5°	267.1	259.3	227.9	196.7	227.9	259.3	267.1	290.0	320.5	335.7	277.5
100°	375.0	365.7	328.5	291.2	328.5	365.7	375.0	373.3	371.1	369.9	305.4
102.5°	467.2	459.2	427.3	395.5	427.3	459.2	467.2	438.0	399.1	379.7	314.3
105°	574.8	570.5	553.4	536.2	553.4	570.5	574.8	509.4	422.2	378.6	315.2
107.5°	630.7	631.8	635.9	640.1	635.9	631.8	630.7	539.5	417.8	357.1	301.2
110°	645.1	649.5	667.4	685.3	667.4	649.5	645.1	543.1	407.1	339.1	288.7



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CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	635.9	642.8	670.2	697.6	670.2	642.8	635.9	531.5	392.4	322.8	277.9
115°	605.0	614.5	652.5	690.5	652.5	614.5	605.0	504.4	370.3	303.2	265.5
117.5°	562.1	572.6	614.8	657.0	614.8	572.6	562.1	471.3	350.3	289.8	257.7
120°	533.2	543.4	584.4	625.4	584.4	543.4	533.2	450.3	339.7	284.4	255.1
122.5°	504.3	514.4	554.8	595.2	554.8	514.4	504.3	429.7	330.1	280.3	253.6
125°	466.1	475.4	512.7	549.9	512.7	475.4	466.1	402.7	318.1	275.8	252.6
127.5°	435.5	443.4	474.7	506.1	474.7	443.4	435.5	381.0	308.4	272.1	251.9
130°	416.1	423.3	452.3	481.3	452.3	423.3	416.1	367.6	303.0	270.7	252.3
132.5°	399.6	406.1	432.1	458.0	432.1	406.1	399.6	356.2	298.3	269.4	252.6
135°	376.3	381.9	404.2	426.6	404.2	381.9	376.3	339.9	291.5	267.3	252.3
137.5°	359.0	363.6	381.9	400.3	381.9	363.6	359.0	328.3	287.4	266.9	253.8
140°	345.2	349.5	366.6	383.8	366.6	349.5	345.2	318.7	283.4	265.6	254.1
142.5°	335.6	339.2	354.0	368.7	354.0	339.2	335.6	312.3	281.2	265.6	255.1
145°	321.1	323.8	335.0	346.1	335.0	323.8	321.1	302.0	276.6	263.8	255.1
147.5°	308.8	311.1	320.3	329.7	320.3	311.1	308.8	293.8	273.9	263.8	256.8
150°	301.8	303.7	311.2	318.7	311.2	303.7	301.8	289.2	272.3	263.8	257.7
152.5°	296.3	297.7	303.3	309.0	303.3	297.7	296.3	285.4	271.0	263.8	258.3
155°	289.6	290.5	294.3	298.0	294.3	290.5	289.6	281.0	269.6	263.8	259.6
157.5°	283.9	284.5	287.2	289.8	287.2	284.5	283.9	277.2	268.3	263.8	260.9
160°	281.0	281.4	282.9	284.4	282.9	281.4	281.0	275.3	267.7	263.8	261.5
162.5°	278.4	278.7	280.1	281.6	280.1	278.7	278.4	273.5	267.1	263.8	262.1
165°	274.2	274.6	276.1	277.6	276.1	274.6	274.2	270.7	266.2	263.8	263.1
167.5°	272.4	272.6	273.2	273.9	273.2	272.6	272.4	270.2	267.2	265.6	265.0
170°	272.4	272.4	272.4	272.4	272.4	272.4	272.4	270.2	267.2	265.6	265.6
172.5°	271.0	270.8	270.3	269.8	270.3	270.8	271.0	269.2	266.8	265.6	265.6
175°	269.0	269.0	269.0	269.0	269.0	269.0	269.0	267.9	266.4	265.6	266.0
177.5°	268.7	268.5	267.9	267.3	267.9	268.5	268.7	267.8	266.6	266.0	266.3
180°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1892.6	1892.6	1892.6	1892.6	1892.6
2.5°	1869.3	1878.3	1883.6	1890.8	1908.7
5°	1797.7	1831.7	1842.5	1869.3	1901.6
7.5°	1640.1	1744.0	1772.6	1837.1	1887.2
10°	1487.9	1591.8	1641.9	1794.1	1869.3
12.5°	1410.9	1471.8	1505.8	1718.9	1844.3
15°	1362.6	1405.6	1430.6	1618.6	1815.6
17.5°	1325.0	1355.4	1373.3	1520.2	1776.2
20°	1301.7	1316.0	1332.1	1448.5	1731.4
22.5°	1285.6	1276.6	1289.2	1398.4	1670.6
25°	1274.8	1240.8	1255.1	1359.0	1598.9
27.5°	1283.8	1208.6	1214.0	1323.2	1523.7
30°	1285.6	1169.2	1171.0	1285.6	1439.6
32.5°	1273.0	1128.0	1129.8	1239.0	1344.7
35°	1242.6	1079.7	1077.9	1185.3	1215.7
37.5°	1201.4	1027.8	1027.8	1126.2	1074.3
40°	1151.3	975.9	981.3	1049.3	949.0
42.5°	1090.4	920.4	927.5	947.2	855.9
45°	1024.2	866.7	872.0	800.4	784.3
47.5°	950.8	811.2	812.9	664.3	761.0
50°	863.1	753.9	746.7	569.4	759.2
52.5°	786.1	691.2	669.7	515.7	689.4
55°	710.9	624.9	578.4	474.5	639.3
57.5°	644.6	539.0	494.2	426.2	628.5
60°	583.7	454.8	420.8	374.2	576.6
62.5°	533.6	392.1	385.0	338.4	522.9
65°	479.9	349.2	347.4	308.0	444.1
67.5°	428.0	320.5	318.7	279.3	338.4
70°	372.4	290.1	286.5	248.9	250.7
72.5°	315.1	256.1	252.5	223.8	207.7
75°	257.8	216.7	214.9	195.2	168.3
77.5°	202.3	171.9	175.5	157.6	123.6
80°	145.0	125.3	128.9	112.8	93.1
82.5°	96.7	82.4	85.9	71.6	62.7
85°	53.7	46.6	48.3	37.6	28.6
87.5°	25.1	21.5	21.5	14.3	9.0
90°	7.9	5.0	4.7	3.2	1.8
92.5°	48.7	34.6	31.6	19.3	7.2
95°	119.7	67.4	61.9	39.5	17.2
97.5°	161.2	74.0	69.1	49.5	29.8
100°	176.4	79.6	75.1	57.3	39.5
102.5°	183.4	85.1	81.0	64.4	47.7
105°	188.6	93.5	90.0	75.8	61.7
107.5°	189.4	105.6	102.3	89.2	76.0
110°	188.0	112.5	109.5	97.6	85.8



TEST NUMBER: P933966

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	188.1	120.7	117.8	106.5	95.3
115°	189.8	133.0	130.4	120.0	109.6
117.5°	193.4	145.1	142.7	133.2	123.7
120°	196.3	152.1	149.9	140.9	132.0
122.5°	200.4	160.4	158.1	149.1	140.0
125°	205.9	170.9	168.9	160.7	152.5
127.5°	211.5	181.1	179.1	170.7	162.5
130°	215.5	187.9	185.7	176.8	167.9
132.5°	218.8	193.5	191.2	182.4	173.4
135°	222.4	200.0	198.0	189.8	181.7
137.5°	227.8	208.2	206.2	198.1	190.1
140°	231.1	213.8	211.9	204.5	197.1
142.5°	233.9	217.9	216.2	209.3	202.5
145°	237.4	224.2	222.7	216.8	210.8
147.5°	242.6	232.1	230.6	224.8	219.0
150°	245.4	236.2	234.8	229.6	224.4
152.5°	247.2	238.9	237.9	233.9	229.9
155°	251.1	244.8	244.1	241.1	238.2
157.5°	255.1	250.7	250.0	247.1	244.2
160°	256.9	253.4	252.8	250.6	248.4
162.5°	258.7	256.2	255.8	254.2	252.5
165°	261.6	260.4	260.1	258.6	257.0
167.5°	263.8	262.8	262.6	261.9	261.2
170°	265.5	265.5	265.3	264.6	263.8
172.5°	265.6	265.6	265.6	265.5	265.3
175°	266.7	267.3	267.3	267.3	267.3
177.5°	266.8	267.3	267.3	267.3	267.3
180°	267.3	267.3	267.3	267.3	267.3



TEST NUMBER: P933966

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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	14.32	15.45	15.04	16.19	17.07	17.16	18.29	17.88	19.03	19.91
	3H	14.82	15.83	15.55	16.58	17.50	18.53	19.54	19.26	20.29	21.20
	4H	15.02	15.98	15.77	16.74	17.66	18.98	19.94	19.74	20.70	21.63
	6H	15.15	16.03	15.92	16.80	17.75	19.28	20.17	20.05	20.94	21.88
	8H	15.16	16.00	15.94	16.79	17.73	19.37	20.21	20.14	21.00	21.94
	12H	15.14	15.94	15.92	16.73	17.70	19.42	20.22	20.20	21.00	21.97
4H	2H	15.39	16.34	16.14	17.10	18.03	17.60	18.55	18.36	19.31	20.24
	3H	16.44	17.23	17.21	18.03	18.97	19.13	19.93	19.90	20.72	21.67
	4H	16.73	17.45	17.51	18.25	19.22	19.67	20.40	20.46	21.19	22.16
	6H	16.87	17.49	17.67	18.31	19.29	20.05	20.68	20.86	21.50	22.48
	8H	16.88	17.46	17.68	18.28	19.27	20.17	20.75	20.97	21.57	22.56
	12H	16.86	17.38	17.68	18.22	19.22	20.24	20.77	21.07	21.60	22.60
8H	4H	17.20	17.79	18.01	18.60	19.60	19.82	20.40	20.62	21.22	22.21
	6H	17.47	17.96	18.31	18.82	19.81	20.27	20.75	21.10	21.61	22.60
	8H	17.52	17.95	18.37	18.81	19.82	20.42	20.85	21.27	21.71	22.72
	12H	17.52	17.89	18.36	18.74	19.81	20.54	20.91	21.38	21.76	22.83
12H	4H	17.22	17.75	18.05	18.59	19.58	19.80	20.32	20.62	21.16	22.16
	6H	17.54	17.97	18.38	18.82	19.83	20.27	20.70	21.11	21.55	22.56
	8H	17.62	18.00	18.47	18.84	19.91	20.44	20.82	21.29	21.67	22.73