

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: P934488

Luminaire Tested: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934488
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-B2750-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

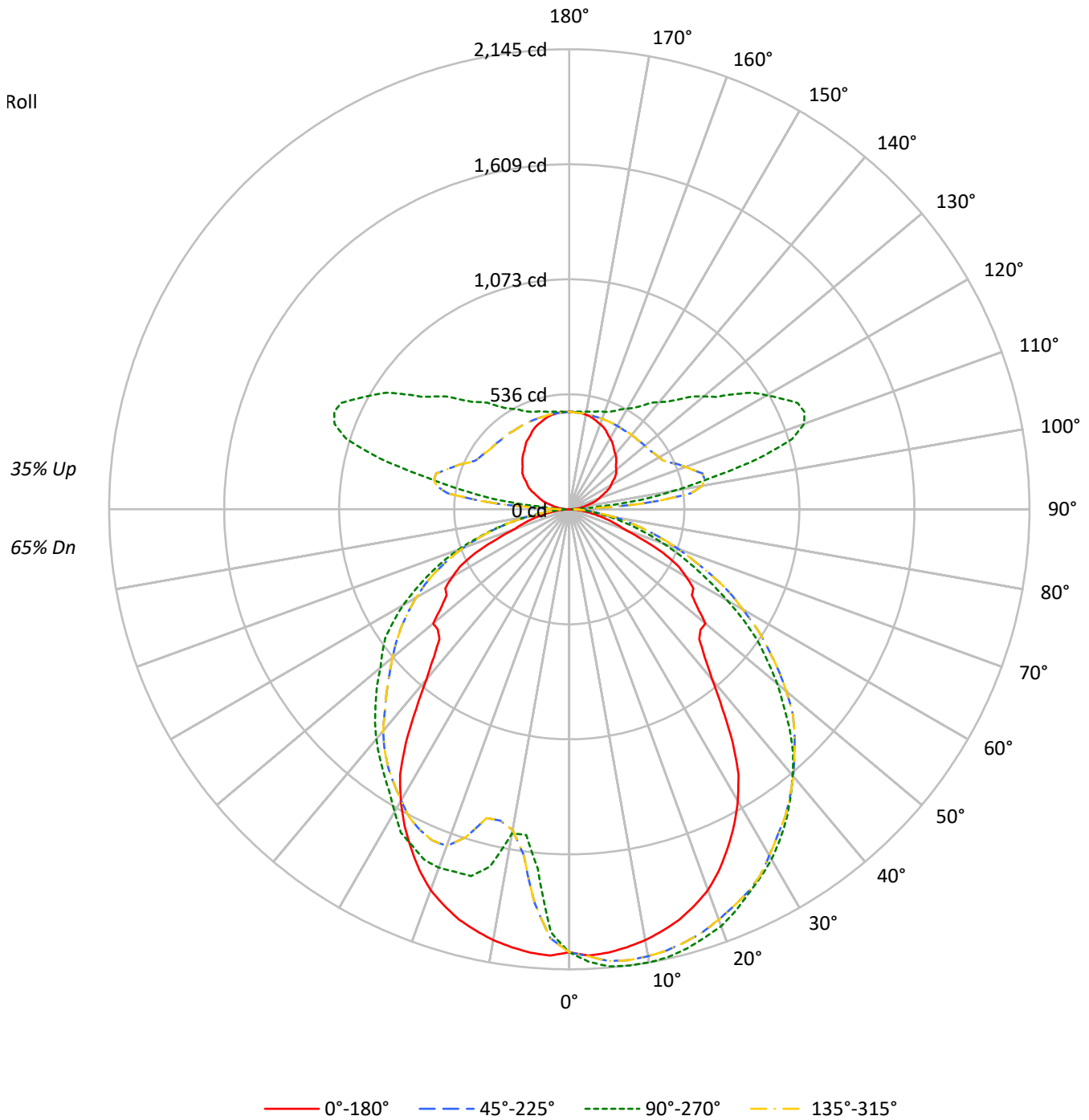
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8301.1 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12776	12776	12776	12776
5°	12867	12897	12867	10141
10°	12776	12704	12776	9082
15°	12633	12429	12633	10379
20°	12364	12103	12364	10400
25°	11818	11627	11818	10180
30°	11115	11232	11115	9696
35°	9904	10732	9904	9164
40°	8248	10145	8248	8762
45°	7364	9457	7364	8300
50°	7817	8636	7817	7837
55°	7349	7752	7349	7568
60°	7566	6583	7566	6932
65°	6849	5442	6849	6083
70°	4730	4337	4730	5099
75°	4134	3205	4134	3840
80°	3307	2120	3307	2308
85°	1866	1123	1866	955

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11295 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	2.2
10°-20°	529.3	6.4
20°-30°	818.2	9.9
30°-40°	976.8	11.8
40°-50°	982.5	11.8
50°-60°	854.9	10.3
60°-70°	606.1	7.3
70°-80°	320.7	3.9
80°-90°	81.6	1.0
90°-100°	221.4	2.7
100°-110°	582.1	7.0
110°-120°	603.6	7.3
120°-130°	484.1	5.8
130°-140°	379.9	4.6
140°-150°	291.6	3.5
150°-160°	210.0	2.5
160°-170°	128.5	1.5
170°-180°	43.4	0.5
0°-30°	1534.0	18.5
0°-40°	2510.8	30.2
0°-60°	4348.3	52.4
0°-90°	5356.7	64.5
90°-120°	1407.0	16.9
90°-150°	2562.6	30.9
90°-180°	2944.0	35.5
0°-180°	8301.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2065	2065	2065	2065	2065	
5°	2075	2140	2075	1682	2075	197
15°	1981	2120	1981	1770	1981	557
25°	1745	1977	1745	1731	1745	801
35°	1327	1764	1327	1506	1327	821
45°	856	1454	856	1276	856	686
55°	698	1073	698	1047	698	641
65°	485	647	485	723	485	463
75°	184	307	184	367	184	193
85°	31	78	31	66	31	42
90°	3	12	3	12	3	4
95°	29	134	29	134	29	32
105°	105	912	105	912	105	111
115°	186	1174	186	1174	186	184
125°	259	935	259	935	259	230
135°	309	725	309	725	309	239
145°	358	588	358	588	358	224
155°	405	507	405	507	405	186
165°	437	472	437	472	437	123
175°	454	457	454	457	454	43
180°	454	454	454	454	454	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2082.9	2082.9	2094.7	2098.5	2098.5	2092.7	2086.8	2092.7	2110.2	2116.2	2114.2
5°	2075.0	2090.7	2112.2	2116.2	2120.0	2118.0	2114.2	2118.0	2137.5	2141.5	2143.5
7.5°	2059.5	2088.7	2116.2	2122.0	2127.8	2122.0	2120.0	2123.9	2143.5	2147.4	2147.4
10°	2039.9	2081.0	2112.2	2116.2	2122.0	2116.2	2116.2	2123.9	2143.5	2147.4	2149.3
12.5°	2012.5	2069.2	2098.5	2102.4	2110.2	2108.3	2106.3	2114.2	2133.7	2137.5	2137.5
15°	1981.3	2047.7	2075.0	2079.0	2092.7	2088.7	2088.7	2096.5	2118.0	2123.9	2122.0
17.5°	1938.3	2020.3	2051.7	2057.5	2067.2	2065.3	2067.2	2075.0	2094.7	2098.5	2100.5
20°	1889.5	1983.2	2020.3	2026.2	2036.0	2036.0	2036.0	2045.8	2065.3	2073.2	2073.2
22.5°	1823.0	1944.2	1983.2	1987.2	1998.9	1998.9	2002.8	2016.5	2034.0	2036.0	2036.0
25°	1744.8	1901.2	1934.4	1946.1	1957.8	1963.7	1969.5	1977.4	1983.2	1981.3	1983.2
27.5°	1662.8	1846.5	1889.5	1897.3	1912.9	1918.8	1926.5	1928.5	1930.5	1936.3	1932.5
30°	1571.0	1770.3	1834.7	1842.5	1868.0	1871.8	1864.0	1868.0	1877.7	1881.7	1885.5
32.5°	1467.4	1657.0	1778.1	1795.7	1819.1	1807.3	1805.5	1811.3	1827.0	1827.0	1830.8
35°	1326.8	1569.0	1725.3	1741.0	1758.5	1744.8	1752.7	1754.6	1764.3	1770.3	1768.3
37.5°	1172.4	1492.8	1670.6	1682.3	1696.0	1678.5	1690.1	1696.0	1703.8	1700.0	1700.0
40°	1035.6	1373.6	1606.1	1614.0	1625.7	1612.0	1623.7	1627.6	1631.5	1627.6	1625.7
42.5°	933.9	1242.7	1537.8	1547.5	1539.7	1549.5	1553.3	1561.2	1555.3	1547.5	1547.5
45°	855.8	1207.6	1463.5	1475.3	1463.5	1479.1	1485.0	1485.0	1467.4	1463.5	1461.5
47.5°	830.4	1137.2	1389.3	1389.3	1383.4	1402.9	1412.6	1399.0	1381.4	1375.6	1375.6
50°	828.4	1059.1	1287.6	1279.8	1307.1	1330.6	1320.8	1307.1	1293.5	1272.0	1272.0
52.5°	752.2	963.3	1156.7	1186.1	1229.0	1242.7	1227.1	1213.4	1189.9	1180.1	1172.4
55°	697.6	863.6	1037.6	1096.1	1141.1	1158.6	1129.4	1115.7	1080.6	1074.6	1070.8
57.5°	685.9	719.1	928.1	1002.4	1057.1	1055.1	1037.6	1012.1	982.8	976.9	975.1
60°	629.2	519.7	810.9	898.8	955.4	949.6	933.9	910.6	883.2	879.3	875.4
62.5°	570.5	377.1	678.0	777.7	857.8	855.8	842.1	806.9	787.4	777.7	769.9
65°	484.6	316.5	482.6	646.7	762.1	765.9	736.6	711.2	689.7	678.0	676.1
67.5°	369.3	257.9	326.3	539.2	670.2	666.3	629.2	617.4	590.1	584.2	572.5
70°	273.5	172.0	226.7	437.7	580.4	570.5	541.2	527.6	502.2	488.5	480.7
72.5°	226.7	138.7	166.0	340.0	488.5	476.7	451.4	435.7	414.2	402.5	394.7
75°	183.7	146.5	127.0	252.0	396.7	388.9	365.4	349.7	332.2	316.5	318.5
77.5°	134.8	136.8	101.6	185.7	314.5	302.9	289.2	269.7	261.8	246.2	246.2
80°	101.6	107.5	76.2	127.0	226.7	226.7	214.9	201.2	187.5	179.7	179.7
82.5°	68.4	68.4	56.7	80.1	154.4	148.5	140.7	136.8	129.0	125.0	125.0
85°	31.3	39.0	35.2	48.8	84.0	88.0	88.0	84.0	82.0	78.2	80.1
87.5°	9.8	17.6	21.5	27.3	43.0	45.0	46.9	46.9	46.9	48.8	48.8
90°	3.1	5.5	8.0	8.6	13.4	19.9	23.2	20.6	15.4	11.5	11.5
92.5°	12.2	32.9	53.6	58.9	82.7	114.6	130.4	114.3	82.0	57.9	55.6
95°	29.3	67.1	105.1	114.6	203.5	322.1	381.4	340.4	258.2	196.6	189.6
97.5°	50.6	84.1	117.5	125.9	274.2	471.9	570.7	544.8	492.8	453.9	440.5
100°	67.0	97.4	127.8	135.4	299.8	519.2	628.9	630.7	634.6	637.4	621.7
102.5°	81.0	109.4	137.7	144.8	311.7	534.1	645.3	678.4	744.5	794.1	780.6
105°	104.9	128.9	152.8	158.8	320.4	535.8	643.5	717.6	865.8	977.0	969.7
107.5°	129.3	151.6	173.9	179.6	322.0	511.9	606.9	710.2	917.0	1072.1	1073.9
110°	145.7	165.8	186.1	191.1	319.6	490.8	576.4	692.0	923.2	1096.5	1104.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	161.9	181.1	200.4	205.2	319.7	472.4	548.7	667.0	903.6	1081.0	1092.6
115°	186.3	204.0	221.8	226.2	322.6	451.2	515.5	629.5	857.3	1028.2	1044.4
117.5°	210.3	226.5	242.6	246.6	328.6	438.0	492.6	595.4	801.1	955.3	973.3
120°	224.3	239.5	254.7	258.5	333.5	433.4	483.4	577.4	765.3	906.2	923.7
122.5°	238.1	253.4	268.7	272.5	340.5	431.1	476.4	561.0	730.3	857.2	874.4
125°	259.1	273.0	287.0	290.5	349.9	429.2	468.8	540.7	684.5	792.3	808.0
127.5°	276.2	290.3	304.4	307.9	359.4	428.1	462.4	524.2	647.5	740.1	753.4
130°	285.3	300.5	315.7	319.5	366.3	428.7	460.0	514.9	624.8	707.3	719.6
132.5°	294.8	310.0	325.2	328.9	371.9	429.2	457.9	507.1	605.4	679.2	690.2
135°	308.8	322.6	336.4	339.9	378.0	428.8	454.3	495.5	577.8	639.5	649.1
137.5°	323.1	336.8	350.4	353.9	387.1	431.4	453.6	488.4	558.0	610.2	618.0
140°	335.0	347.7	360.2	363.3	392.7	431.9	451.5	481.6	541.7	586.8	594.1
142.5°	344.1	355.7	367.4	370.3	397.4	433.4	451.5	477.9	530.7	570.3	576.6
145°	358.2	368.4	378.5	381.1	403.6	433.4	448.4	470.0	513.2	545.7	550.4
147.5°	372.2	382.1	392.0	394.5	412.4	436.4	448.4	465.4	499.4	524.9	528.9
150°	381.4	390.4	399.2	401.5	417.2	438.0	448.4	462.8	491.5	513.0	516.2
152.5°	390.8	397.6	404.4	406.0	420.1	439.0	448.4	460.7	485.2	503.6	505.9
155°	404.9	409.9	414.8	416.1	426.8	441.2	448.4	458.2	477.7	492.3	493.9
157.5°	415.2	420.0	425.0	426.1	433.5	443.5	448.4	456.0	471.2	482.5	483.6
160°	422.2	426.0	429.7	430.7	436.6	444.5	448.4	454.9	468.0	477.7	478.3
162.5°	429.2	432.1	434.9	435.6	439.9	445.6	448.4	454.0	464.9	473.1	473.7
165°	436.8	439.4	441.9	442.6	444.6	447.2	448.4	452.4	460.2	466.1	466.8
167.5°	443.8	445.0	446.3	446.6	448.2	450.4	451.5	454.1	459.2	463.0	463.3
170°	448.4	449.6	450.9	451.2	451.3	451.4	451.5	454.1	459.2	463.0	463.0
172.5°	450.9	451.2	451.4	451.5	451.5	451.5	451.5	453.5	457.5	460.6	460.4
175°	454.3	454.3	454.3	454.3	453.4	452.1	451.5	452.8	455.3	457.2	457.2
177.5°	454.3	454.3	454.3	454.3	453.6	452.6	452.1	453.1	455.1	456.6	456.3
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2118.0	2112.2	2118.0	2114.2	2116.2	2110.2	2092.7	2086.8	2092.7	2098.5	2098.5
5°	2143.5	2139.5	2143.5	2143.5	2141.5	2137.5	2118.0	2114.2	2118.0	2120.0	2116.2
7.5°	2151.3	2145.4	2151.3	2147.4	2147.4	2143.5	2123.9	2120.0	2122.0	2127.8	2122.0
10°	2151.3	2145.4	2151.3	2149.3	2147.4	2143.5	2123.9	2116.2	2116.2	2122.0	2116.2
12.5°	2141.5	2137.5	2141.5	2137.5	2137.5	2133.7	2114.2	2106.3	2108.3	2110.2	2102.4
15°	2125.9	2120.0	2125.9	2122.0	2123.9	2118.0	2096.5	2088.7	2088.7	2092.7	2079.0
17.5°	2102.4	2094.7	2102.4	2100.5	2098.5	2094.7	2075.0	2067.2	2065.3	2067.2	2057.5
20°	2075.0	2069.2	2075.0	2073.2	2073.2	2065.3	2045.8	2036.0	2036.0	2036.0	2026.2
22.5°	2032.0	2026.2	2032.0	2036.0	2036.0	2034.0	2016.5	2002.8	1998.9	1998.9	1987.2
25°	1983.2	1977.4	1983.2	1983.2	1981.3	1983.2	1977.4	1969.5	1963.7	1957.8	1946.1
27.5°	1936.3	1932.5	1936.3	1932.5	1936.3	1930.5	1928.5	1926.5	1918.8	1912.9	1897.3
30°	1889.5	1885.5	1889.5	1885.5	1881.7	1877.7	1868.0	1864.0	1871.8	1868.0	1842.5
32.5°	1830.8	1827.0	1830.8	1830.8	1827.0	1827.0	1811.3	1805.5	1807.3	1819.1	1795.7
35°	1770.3	1764.3	1770.3	1768.3	1770.3	1764.3	1754.6	1752.7	1744.8	1758.5	1741.0
37.5°	1700.0	1694.0	1700.0	1700.0	1700.0	1703.8	1696.0	1690.1	1678.5	1696.0	1682.3
40°	1627.6	1619.8	1627.6	1625.7	1627.6	1631.5	1627.6	1623.7	1612.0	1625.7	1614.0
42.5°	1545.6	1543.6	1545.6	1547.5	1547.5	1555.3	1561.2	1553.3	1549.5	1539.7	1547.5
45°	1457.6	1453.8	1457.6	1461.5	1463.5	1467.4	1485.0	1485.0	1479.1	1463.5	1475.3
47.5°	1363.8	1354.1	1363.8	1375.6	1375.6	1381.4	1399.0	1412.6	1402.9	1383.4	1389.3
50°	1264.2	1266.1	1264.2	1272.0	1272.0	1293.5	1307.1	1320.8	1330.6	1307.1	1279.8
52.5°	1166.5	1164.6	1166.5	1172.4	1180.1	1189.9	1213.4	1227.1	1242.7	1229.0	1186.1
55°	1068.8	1072.7	1068.8	1070.8	1074.6	1080.6	1115.7	1129.4	1158.6	1141.1	1096.1
57.5°	971.1	965.2	971.1	975.1	976.9	982.8	1012.1	1037.6	1055.1	1057.1	1002.4
60°	857.8	849.9	857.8	875.4	879.3	883.2	910.6	933.9	949.6	955.4	898.8
62.5°	758.1	744.4	758.1	769.9	777.7	787.4	806.9	842.1	855.8	857.8	777.7
65°	652.6	646.7	652.6	676.1	678.0	689.7	711.2	736.6	765.9	762.1	646.7
67.5°	556.9	556.9	556.9	572.5	584.2	590.1	617.4	629.2	666.3	670.2	539.2
70°	468.9	467.0	468.9	480.7	488.5	502.2	527.6	541.2	570.5	580.4	437.7
72.5°	384.9	383.0	384.9	394.7	402.5	414.2	435.7	451.4	476.7	488.5	340.0
75°	310.7	306.7	310.7	318.5	316.5	332.2	349.7	365.4	388.9	396.7	252.0
77.5°	238.4	238.4	238.4	246.2	246.2	261.8	269.7	289.2	302.9	314.5	185.7
80°	177.8	175.9	177.8	179.7	179.7	187.5	201.2	214.9	226.7	226.7	127.0
82.5°	125.0	121.2	125.0	125.0	125.0	129.0	136.8	140.7	148.5	154.4	80.1
85°	78.2	78.2	78.2	80.1	78.2	82.0	84.0	88.0	88.0	84.0	48.8
87.5°	50.8	48.8	50.8	48.8	48.8	46.9	46.9	46.9	45.0	43.0	27.3
90°	11.5	11.5	11.5	11.5	11.5	15.4	20.6	23.2	19.9	13.4	8.6
92.5°	46.3	37.2	46.3	55.6	57.9	82.0	114.3	130.4	114.6	82.7	58.9
95°	161.7	133.8	161.7	189.6	196.6	258.2	340.4	381.4	322.1	203.5	114.6
97.5°	387.5	334.5	387.5	440.5	453.9	492.8	544.8	570.7	471.9	274.2	125.9
100°	558.4	495.1	558.4	621.7	637.4	634.6	630.7	628.9	519.2	299.8	135.4
102.5°	726.4	672.2	726.4	780.6	794.1	744.5	678.4	645.3	534.1	311.7	144.8
105°	940.6	911.5	940.6	969.7	977.0	865.8	717.6	643.5	535.8	320.4	158.8
107.5°	1080.9	1088.0	1080.9	1073.9	1072.1	917.0	710.2	606.9	511.9	322.0	179.6
110°	1134.4	1164.8	1134.4	1104.1	1096.5	923.2	692.0	576.4	490.8	319.6	191.1



TEST NUMBER: P934488

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1139.2	1185.8	1139.2	1092.6	1081.0	903.6	667.0	548.7	472.4	319.7	205.2
115°	1109.0	1173.6	1109.0	1044.4	1028.2	857.3	629.5	515.5	451.2	322.6	226.2
117.5°	1045.0	1116.6	1045.0	973.3	955.3	801.1	595.4	492.6	438.0	328.6	246.6
120°	993.3	1063.0	993.3	923.7	906.2	765.3	577.4	483.4	433.4	333.5	258.5
122.5°	943.1	1011.7	943.1	874.4	857.2	730.3	561.0	476.4	431.1	340.5	272.5
125°	871.3	934.6	871.3	808.0	792.3	684.5	540.7	468.8	429.2	349.9	290.5
127.5°	806.8	860.3	806.8	753.4	740.1	647.5	524.2	462.4	428.1	359.4	307.9
130°	768.9	818.2	768.9	719.6	707.3	624.8	514.9	460.0	428.7	366.3	319.5
132.5°	734.4	778.5	734.4	690.2	679.2	605.4	507.1	457.9	429.2	371.9	328.9
135°	687.1	725.2	687.1	649.1	639.5	577.8	495.5	454.3	428.8	378.0	339.9
137.5°	649.3	680.4	649.3	618.0	610.2	558.0	488.4	453.6	431.4	387.1	353.9
140°	623.2	652.3	623.2	594.1	586.8	541.7	481.6	451.5	431.9	392.7	363.3
142.5°	601.7	626.7	601.7	576.6	570.3	530.7	477.9	451.5	433.4	397.4	370.3
145°	569.4	588.3	569.4	550.4	545.7	513.2	470.0	448.4	433.4	403.6	381.1
147.5°	544.6	560.2	544.6	528.9	524.9	499.4	465.4	448.4	436.4	412.4	394.5
150°	529.0	541.7	529.0	516.2	513.0	491.5	462.8	448.4	438.0	417.2	401.5
152.5°	515.6	525.2	515.6	505.9	503.6	485.2	460.7	448.4	439.0	420.1	406.0
155°	500.3	506.6	500.3	493.9	492.3	477.7	458.2	448.4	441.2	426.8	416.1
157.5°	488.2	492.6	488.2	483.6	482.5	471.2	456.0	448.4	443.5	433.5	426.1
160°	480.9	483.4	480.9	478.3	477.7	468.0	454.9	448.4	444.5	436.6	430.7
162.5°	476.1	478.6	476.1	473.7	473.1	464.9	454.0	448.4	445.6	439.9	435.6
165°	469.3	471.9	469.3	466.8	466.1	460.2	452.4	448.4	447.2	444.6	442.6
167.5°	464.4	465.5	464.4	463.3	463.0	459.2	454.1	451.5	450.4	448.2	446.6
170°	463.0	463.0	463.0	463.0	463.0	459.2	454.1	451.5	451.4	451.3	451.2
172.5°	459.4	458.5	459.4	460.4	460.6	457.5	453.5	451.5	451.5	451.5	451.5
175°	457.2	457.2	457.2	457.2	457.2	455.3	452.8	451.5	452.1	453.4	454.3
177.5°	455.3	454.3	455.3	456.3	456.6	455.1	453.1	452.1	452.6	453.6	454.3
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P934488

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2094.7	2082.9	2082.9	2063.3	2055.5	2049.7	2039.9	2010.6	2002.8	1995.0	2006.7
5°	2112.2	2090.7	2075.0	2039.9	2010.6	1998.9	1961.7	1891.4	1844.5	1809.3	1789.8
7.5°	2116.2	2088.7	2059.5	2004.7	1934.4	1903.1	1789.8	1660.8	1625.7	1594.4	1574.8
10°	2112.2	2081.0	2039.9	1957.8	1791.8	1737.0	1623.7	1539.7	1518.2	1512.3	1518.2
12.5°	2098.5	2069.2	2012.5	1875.8	1643.3	1606.1	1539.7	1490.8	1487.0	1496.7	1549.5
15°	2075.0	2047.7	1981.3	1766.3	1561.2	1533.8	1487.0	1469.3	1490.8	1559.3	1717.5
17.5°	2051.7	2020.3	1938.3	1658.8	1498.6	1479.1	1445.9	1481.1	1602.2	1694.0	1746.8
20°	2020.3	1983.2	1889.5	1580.8	1453.8	1436.1	1420.5	1578.8	1670.6	1703.8	1733.1
22.5°	1983.2	1944.2	1823.0	1526.0	1406.8	1393.1	1402.9	1633.5	1670.6	1694.0	1719.5
25°	1934.4	1901.2	1744.8	1483.0	1369.8	1354.1	1391.2	1627.6	1649.1	1655.0	1705.8
27.5°	1889.5	1846.5	1662.8	1444.0	1324.8	1318.9	1401.0	1602.2	1617.8	1623.7	1678.5
30°	1834.7	1770.3	1571.0	1402.9	1277.9	1275.9	1402.9	1571.0	1567.0	1582.7	1637.4
32.5°	1778.1	1657.0	1467.4	1352.1	1232.9	1231.0	1389.3	1524.1	1520.1	1541.6	1582.7
35°	1725.3	1569.0	1326.8	1293.5	1176.3	1178.2	1356.0	1469.3	1471.3	1490.8	1516.3
37.5°	1670.6	1492.8	1172.4	1229.0	1121.6	1121.6	1311.1	1418.6	1414.6	1420.5	1455.6
40°	1606.1	1373.6	1035.6	1145.0	1070.8	1064.9	1256.4	1363.8	1350.1	1348.3	1397.1
42.5°	1537.8	1242.7	933.9	1033.6	1012.1	1004.3	1189.9	1297.4	1272.0	1277.9	1340.4
45°	1463.5	1207.6	855.8	873.4	951.6	945.7	1117.6	1221.2	1203.6	1219.3	1283.8
47.5°	1389.3	1137.2	830.4	724.9	887.1	885.1	1037.6	1146.9	1137.2	1152.8	1221.2
50°	1287.6	1059.1	828.4	621.4	814.8	822.6	941.8	1074.6	1074.6	1088.3	1160.6
52.5°	1156.7	963.3	752.2	562.7	730.7	754.2	857.8	1012.1	1016.1	1029.7	1094.2
55°	1037.6	863.6	697.6	517.7	631.1	681.9	775.7	947.6	955.4	969.1	1027.8
57.5°	928.1	719.1	685.9	465.0	539.2	588.1	703.4	885.1	889.1	900.8	957.4
60°	810.9	519.7	629.2	408.4	459.2	496.3	637.0	810.9	824.6	832.4	881.2
62.5°	678.0	377.1	570.5	369.3	420.1	427.9	582.2	740.6	758.1	764.0	793.3
65°	482.6	316.5	484.6	336.0	379.0	381.0	523.7	668.2	683.9	693.7	715.1
67.5°	326.3	257.9	369.3	304.8	347.8	349.7	467.0	584.2	605.7	613.5	627.2
70°	226.7	172.0	273.5	271.6	312.7	316.5	406.4	508.0	527.6	533.4	541.2
72.5°	166.0	138.7	226.7	244.2	275.5	279.4	343.9	422.0	441.6	447.4	451.4
75°	127.0	146.5	183.7	213.0	234.5	236.4	281.4	343.9	357.5	361.5	363.4
77.5°	101.6	136.8	134.8	172.0	191.5	187.5	220.8	265.7	277.5	277.5	277.5
80°	76.2	107.5	101.6	123.1	140.7	136.8	158.3	189.5	193.5	197.3	195.4
82.5°	56.7	68.4	68.4	78.2	93.8	89.9	105.5	123.1	123.1	123.1	127.0
85°	35.2	39.0	31.3	41.0	52.8	50.8	58.7	66.5	68.4	68.4	64.5
87.5°	21.5	17.6	9.8	15.7	23.5	23.5	27.3	29.3	27.3	27.3	27.3
90°	8.0	5.5	3.1	5.5	8.0	8.6	13.4	19.9	23.2	20.6	15.4
92.5°	53.6	32.9	12.2	32.9	53.6	58.9	82.7	114.6	130.4	114.3	82.0
95°	105.1	67.1	29.3	67.1	105.1	114.6	203.5	322.1	381.4	340.4	258.2
97.5°	117.5	84.1	50.6	84.1	117.5	125.9	274.2	471.9	570.7	544.8	492.8
100°	127.8	97.4	67.0	97.4	127.8	135.4	299.8	519.2	628.9	630.7	634.6
102.5°	137.7	109.4	81.0	109.4	137.7	144.8	311.7	534.1	645.3	678.4	744.5
105°	152.8	128.9	104.9	128.9	152.8	158.8	320.4	535.8	643.5	717.6	865.8
107.5°	173.9	151.6	129.3	151.6	173.9	179.6	322.0	511.9	606.9	710.2	917.0
110°	186.1	165.8	145.7	165.8	186.1	191.1	319.6	490.8	576.4	692.0	923.2



TEST NUMBER: P934488

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	200.4	181.1	161.9	181.1	200.4	205.2	319.7	472.4	548.7	667.0	903.6
115°	221.8	204.0	186.3	204.0	221.8	226.2	322.6	451.2	515.5	629.5	857.3
117.5°	242.6	226.5	210.3	226.5	242.6	246.6	328.6	438.0	492.6	595.4	801.1
120°	254.7	239.5	224.3	239.5	254.7	258.5	333.5	433.4	483.4	577.4	765.3
122.5°	268.7	253.4	238.1	253.4	268.7	272.5	340.5	431.1	476.4	561.0	730.3
125°	287.0	273.0	259.1	273.0	287.0	290.5	349.9	429.2	468.8	540.7	684.5
127.5°	304.4	290.3	276.2	290.3	304.4	307.9	359.4	428.1	462.4	524.2	647.5
130°	315.7	300.5	285.3	300.5	315.7	319.5	366.3	428.7	460.0	514.9	624.8
132.5°	325.2	310.0	294.8	310.0	325.2	328.9	371.9	429.2	457.9	507.1	605.4
135°	336.4	322.6	308.8	322.6	336.4	339.9	378.0	428.8	454.3	495.5	577.8
137.5°	350.4	336.8	323.1	336.8	350.4	353.9	387.1	431.4	453.6	488.4	558.0
140°	360.2	347.7	335.0	347.7	360.2	363.3	392.7	431.9	451.5	481.6	541.7
142.5°	367.4	355.7	344.1	355.7	367.4	370.3	397.4	433.4	451.5	477.9	530.7
145°	378.5	368.4	358.2	368.4	378.5	381.1	403.6	433.4	448.4	470.0	513.2
147.5°	392.0	382.1	372.2	382.1	392.0	394.5	412.4	436.4	448.4	465.4	499.4
150°	399.2	390.4	381.4	390.4	399.2	401.5	417.2	438.0	448.4	462.8	491.5
152.5°	404.4	397.6	390.8	397.6	404.4	406.0	420.1	439.0	448.4	460.7	485.2
155°	414.8	409.9	404.9	409.9	414.8	416.1	426.8	441.2	448.4	458.2	477.7
157.5°	425.0	420.0	415.2	420.0	425.0	426.1	433.5	443.5	448.4	456.0	471.2
160°	429.7	426.0	422.2	426.0	429.7	430.7	436.6	444.5	448.4	454.9	468.0
162.5°	434.9	432.1	429.2	432.1	434.9	435.6	439.9	445.6	448.4	454.0	464.9
165°	441.9	439.4	436.8	439.4	441.9	442.6	444.6	447.2	448.4	452.4	460.2
167.5°	446.3	445.0	443.8	445.0	446.3	446.6	448.2	450.4	451.5	454.1	459.2
170°	450.9	449.6	448.4	449.6	450.9	451.2	451.3	451.4	451.5	454.1	459.2
172.5°	451.4	451.2	450.9	451.2	451.4	451.5	451.5	451.5	451.5	453.5	457.5
175°	454.3	454.3	454.3	454.3	454.3	454.3	453.4	452.1	451.5	452.8	455.3
177.5°	454.3	454.3	454.3	454.3	454.3	454.3	453.6	452.6	452.1	453.1	455.1
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P934488

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	1993.0	1987.2	1995.0	1973.5	1995.0	1987.2	1993.0	2006.7	1995.0	2002.8	2010.6
5°	1748.8	1739.0	1707.8	1682.3	1707.8	1739.0	1748.8	1789.8	1809.3	1844.5	1891.4
7.5°	1563.1	1555.3	1547.5	1531.8	1547.5	1555.3	1563.1	1574.8	1594.4	1625.7	1660.8
10°	1522.1	1524.1	1535.8	1533.8	1535.8	1524.1	1522.1	1518.2	1512.3	1518.2	1539.7
12.5°	1627.6	1645.2	1709.7	1705.8	1709.7	1645.2	1627.6	1549.5	1496.7	1487.0	1490.8
15°	1748.8	1754.6	1768.3	1770.3	1768.3	1754.6	1748.8	1717.5	1559.3	1490.8	1469.3
17.5°	1760.5	1762.5	1772.2	1772.2	1772.2	1762.5	1760.5	1746.8	1694.0	1602.2	1481.1
20°	1750.7	1754.6	1774.2	1778.1	1774.2	1754.6	1750.7	1733.1	1703.8	1670.6	1578.8
22.5°	1746.8	1754.6	1770.3	1768.3	1770.3	1754.6	1746.8	1719.5	1694.0	1670.6	1633.5
25°	1727.3	1727.3	1729.2	1731.2	1729.2	1727.3	1727.3	1705.8	1655.0	1649.1	1627.6
27.5°	1686.3	1690.1	1701.8	1700.0	1701.8	1690.1	1686.3	1678.5	1623.7	1617.8	1602.2
30°	1649.1	1645.2	1635.5	1627.6	1635.5	1645.2	1649.1	1637.4	1582.7	1567.0	1571.0
32.5°	1586.6	1576.8	1567.0	1561.2	1567.0	1576.8	1586.6	1582.7	1541.6	1520.1	1524.1
35°	1512.3	1514.3	1512.3	1506.5	1512.3	1514.3	1512.3	1516.3	1490.8	1471.3	1469.3
37.5°	1459.6	1463.5	1461.5	1453.8	1461.5	1463.5	1459.6	1455.6	1420.5	1414.6	1418.6
40°	1404.9	1406.8	1404.9	1399.0	1404.9	1406.8	1404.9	1397.1	1348.3	1350.1	1363.8
42.5°	1352.1	1350.1	1344.3	1340.4	1344.3	1350.1	1352.1	1340.4	1277.9	1272.0	1297.4
45°	1291.6	1293.5	1281.8	1275.9	1281.8	1293.5	1291.6	1283.8	1219.3	1203.6	1221.2
47.5°	1231.0	1231.0	1221.2	1215.3	1221.2	1231.0	1231.0	1221.2	1152.8	1137.2	1146.9
50°	1166.5	1164.6	1150.9	1148.9	1150.9	1164.6	1166.5	1160.6	1088.3	1074.6	1074.6
52.5°	1092.3	1092.3	1094.2	1098.1	1094.2	1092.3	1092.3	1094.2	1029.7	1016.1	1012.1
55°	1027.8	1029.7	1043.4	1047.3	1043.4	1029.7	1027.8	1027.8	969.1	955.4	947.6
57.5°	961.4	961.4	971.1	971.1	971.1	961.4	961.4	957.4	900.8	889.1	885.1
60°	885.1	889.1	896.9	894.9	896.9	889.1	885.1	881.2	832.4	824.6	810.9
62.5°	805.0	808.9	810.9	806.9	810.9	808.9	805.0	793.3	764.0	758.1	740.6
65°	721.0	724.9	726.9	722.9	726.9	724.9	721.0	715.1	693.7	683.9	668.2
67.5°	635.0	633.1	631.1	638.9	631.1	633.1	635.0	627.2	613.5	605.7	584.2
70°	547.1	547.1	545.2	549.0	545.2	547.1	547.1	541.2	533.4	527.6	508.0
72.5°	453.3	451.4	459.2	453.3	459.2	451.4	453.3	451.4	447.4	441.6	422.0
75°	361.5	365.4	361.5	367.4	361.5	365.4	361.5	363.4	361.5	357.5	343.9
77.5°	275.5	279.4	275.5	275.5	275.5	279.4	275.5	277.5	277.5	277.5	265.7
80°	195.4	193.5	193.5	191.5	193.5	193.5	195.4	195.4	197.3	193.5	189.5
82.5°	125.0	123.1	123.1	127.0	123.1	123.1	125.0	127.0	123.1	123.1	123.1
85°	68.4	70.3	66.5	66.5	66.5	70.3	68.4	64.5	68.4	68.4	66.5
87.5°	25.4	23.5	23.5	23.5	23.5	23.5	25.4	27.3	27.3	27.3	29.3
90°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	15.4	20.6	23.2	19.9
92.5°	57.9	55.6	46.3	37.2	46.3	55.6	57.9	82.0	114.3	130.4	114.6
95°	196.6	189.6	161.7	133.8	161.7	189.6	196.6	258.2	340.4	381.4	322.1
97.5°	453.9	440.5	387.5	334.5	387.5	440.5	453.9	492.8	544.8	570.7	471.9
100°	637.4	621.7	558.4	495.1	558.4	621.7	637.4	634.6	630.7	628.9	519.2
102.5°	794.1	780.6	726.4	672.2	726.4	780.6	794.1	744.5	678.4	645.3	534.1
105°	977.0	969.7	940.6	911.5	940.6	969.7	977.0	865.8	717.6	643.5	535.8
107.5°	1072.1	1073.9	1080.9	1088.0	1080.9	1073.9	1072.1	917.0	710.2	606.9	511.9
110°	1096.5	1104.1	1134.4	1164.8	1134.4	1104.1	1096.5	923.2	692.0	576.4	490.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1081.0	1092.6	1139.2	1185.8	1139.2	1092.6	1081.0	903.6	667.0	548.7	472.4
115°	1028.2	1044.4	1109.0	1173.6	1109.0	1044.4	1028.2	857.3	629.5	515.5	451.2
117.5°	955.3	973.3	1045.0	1116.6	1045.0	973.3	955.3	801.1	595.4	492.6	438.0
120°	906.2	923.7	993.3	1063.0	993.3	923.7	906.2	765.3	577.4	483.4	433.4
122.5°	857.2	874.4	943.1	1011.7	943.1	874.4	857.2	730.3	561.0	476.4	431.1
125°	792.3	808.0	871.3	934.6	871.3	808.0	792.3	684.5	540.7	468.8	429.2
127.5°	740.1	753.4	806.8	860.3	806.8	753.4	740.1	647.5	524.2	462.4	428.1
130°	707.3	719.6	768.9	818.2	768.9	719.6	707.3	624.8	514.9	460.0	428.7
132.5°	679.2	690.2	734.4	778.5	734.4	690.2	679.2	605.4	507.1	457.9	429.2
135°	639.5	649.1	687.1	725.2	687.1	649.1	639.5	577.8	495.5	454.3	428.8
137.5°	610.2	618.0	649.3	680.4	649.3	618.0	610.2	558.0	488.4	453.6	431.4
140°	586.8	594.1	623.2	652.3	623.2	594.1	586.8	541.7	481.6	451.5	431.9
142.5°	570.3	576.6	601.7	626.7	601.7	576.6	570.3	530.7	477.9	451.5	433.4
145°	545.7	550.4	569.4	588.3	569.4	550.4	545.7	513.2	470.0	448.4	433.4
147.5°	524.9	528.9	544.6	560.2	544.6	528.9	524.9	499.4	465.4	448.4	436.4
150°	513.0	516.2	529.0	541.7	529.0	516.2	513.0	491.5	462.8	448.4	438.0
152.5°	503.6	505.9	515.6	525.2	515.6	505.9	503.6	485.2	460.7	448.4	439.0
155°	492.3	493.9	500.3	506.6	500.3	493.9	492.3	477.7	458.2	448.4	441.2
157.5°	482.5	483.6	488.2	492.6	488.2	483.6	482.5	471.2	456.0	448.4	443.5
160°	477.7	478.3	480.9	483.4	480.9	478.3	477.7	468.0	454.9	448.4	444.5
162.5°	473.1	473.7	476.1	478.6	476.1	473.7	473.1	464.9	454.0	448.4	445.6
165°	466.1	466.8	469.3	471.9	469.3	466.8	466.1	460.2	452.4	448.4	447.2
167.5°	463.0	463.3	464.4	465.5	464.4	463.3	463.0	459.2	454.1	451.5	450.4
170°	463.0	463.0	463.0	463.0	463.0	463.0	463.0	459.2	454.1	451.5	451.4
172.5°	460.6	460.4	459.4	458.5	459.4	460.4	460.6	457.5	453.5	451.5	451.5
175°	457.2	457.2	457.2	457.2	457.2	457.2	457.2	455.3	452.8	451.5	452.1
177.5°	456.6	456.3	455.3	454.3	455.3	456.3	456.6	455.1	453.1	452.1	452.6
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2039.9	2049.7	2055.5	2063.3	2082.9
5°	1961.7	1998.9	2010.6	2039.9	2075.0
7.5°	1789.8	1903.1	1934.4	2004.7	2059.5
10°	1623.7	1737.0	1791.8	1957.8	2039.9
12.5°	1539.7	1606.1	1643.3	1875.8	2012.5
15°	1487.0	1533.8	1561.2	1766.3	1981.3
17.5°	1445.9	1479.1	1498.6	1658.8	1938.3
20°	1420.5	1436.1	1453.8	1580.8	1889.5
22.5°	1402.9	1393.1	1406.8	1526.0	1823.0
25°	1391.2	1354.1	1369.8	1483.0	1744.8
27.5°	1401.0	1318.9	1324.8	1444.0	1662.8
30°	1402.9	1275.9	1277.9	1402.9	1571.0
32.5°	1389.3	1231.0	1232.9	1352.1	1467.4
35°	1356.0	1178.2	1176.3	1293.5	1326.8
37.5°	1311.1	1121.6	1121.6	1229.0	1172.4
40°	1256.4	1064.9	1070.8	1145.0	1035.6
42.5°	1189.9	1004.3	1012.1	1033.6	933.9
45°	1117.6	945.7	951.6	873.4	855.8
47.5°	1037.6	885.1	887.1	724.9	830.4
50°	941.8	822.6	814.8	621.4	828.4
52.5°	857.8	754.2	730.7	562.7	752.2
55°	775.7	681.9	631.1	517.7	697.6
57.5°	703.4	588.1	539.2	465.0	685.9
60°	637.0	496.3	459.2	408.4	629.2
62.5°	582.2	427.9	420.1	369.3	570.5
65°	523.7	381.0	379.0	336.0	484.6
67.5°	467.0	349.7	347.8	304.8	369.3
70°	406.4	316.5	312.7	271.6	273.5
72.5°	343.9	279.4	275.5	244.2	226.7
75°	281.4	236.4	234.5	213.0	183.7
77.5°	220.8	187.5	191.5	172.0	134.8
80°	158.3	136.8	140.7	123.1	101.6
82.5°	105.5	89.9	93.8	78.2	68.4
85°	58.7	50.8	52.8	41.0	31.3
87.5°	27.3	23.5	23.5	15.7	9.8
90°	13.4	8.6	8.0	5.5	3.1
92.5°	82.7	58.9	53.6	32.9	12.2
95°	203.5	114.6	105.1	67.1	29.3
97.5°	274.2	125.9	117.5	84.1	50.6
100°	299.8	135.4	127.8	97.4	67.0
102.5°	311.7	144.8	137.7	109.4	81.0
105°	320.4	158.8	152.8	128.9	104.9
107.5°	322.0	179.6	173.9	151.6	129.3
110°	319.6	191.1	186.1	165.8	145.7



TEST NUMBER: P934488

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	319.7	205.2	200.4	181.1	161.9
115°	322.6	226.2	221.8	204.0	186.3
117.5°	328.6	246.6	242.6	226.5	210.3
120°	333.5	258.5	254.7	239.5	224.3
122.5°	340.5	272.5	268.7	253.4	238.1
125°	349.9	290.5	287.0	273.0	259.1
127.5°	359.4	307.9	304.4	290.3	276.2
130°	366.3	319.5	315.7	300.5	285.3
132.5°	371.9	328.9	325.2	310.0	294.8
135°	378.0	339.9	336.4	322.6	308.8
137.5°	387.1	353.9	350.4	336.8	323.1
140°	392.7	363.3	360.2	347.7	335.0
142.5°	397.4	370.3	367.4	355.7	344.1
145°	403.6	381.1	378.5	368.4	358.2
147.5°	412.4	394.5	392.0	382.1	372.2
150°	417.2	401.5	399.2	390.4	381.4
152.5°	420.1	406.0	404.4	397.6	390.8
155°	426.8	416.1	414.8	409.9	404.9
157.5°	433.5	426.1	425.0	420.0	415.2
160°	436.6	430.7	429.7	426.0	422.2
162.5°	439.9	435.6	434.9	432.1	429.2
165°	444.6	442.6	441.9	439.4	436.8
167.5°	448.2	446.6	446.3	445.0	443.8
170°	451.3	451.2	450.9	449.6	448.4
172.5°	451.5	451.5	451.4	451.2	450.9
175°	453.4	454.3	454.3	454.3	454.3
177.5°	453.6	454.3	454.3	454.3	454.3
180°	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P934488
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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	14.90	15.91	15.72	16.75	17.80	17.72	18.73	18.54	19.57	20.62
	3H	15.38	16.29	16.22	17.14	18.22	19.08	19.98	19.91	20.83	21.91
	4H	15.58	16.44	16.43	17.30	18.38	19.53	20.38	20.38	21.24	22.33
	6H	15.71	16.50	16.57	17.37	18.47	19.82	20.61	20.68	21.47	22.57
	8H	15.71	16.47	16.59	17.35	18.45	19.90	20.65	20.77	21.53	22.63
	12H	15.69	16.41	16.57	17.29	18.41	19.94	20.65	20.82	21.53	22.66
4H	2H	15.95	16.80	16.80	17.66	18.75	18.15	19.00	19.00	19.86	20.95
	3H	16.99	17.70	17.85	18.59	19.69	19.67	20.38	20.53	21.27	22.37
	4H	17.27	17.92	18.15	18.81	19.94	20.20	20.85	21.08	21.74	22.87
	6H	17.40	17.96	18.30	18.88	20.01	20.57	21.13	21.47	22.05	23.18
	8H	17.41	17.93	18.31	18.84	19.99	20.68	21.20	21.58	22.11	23.26
	12H	17.39	17.86	18.30	18.79	19.93	20.74	21.22	21.66	22.14	23.29
8H	4H	17.73	18.26	18.63	19.17	20.31	20.34	20.86	21.23	21.77	22.91
	6H	18.00	18.43	18.93	19.38	20.53	20.78	21.21	21.70	22.16	23.30
	8H	18.05	18.43	18.98	19.37	20.53	20.93	21.31	21.86	22.26	23.42
	12H	18.04	18.37	18.97	19.31	20.52	21.03	21.37	21.97	22.31	23.52
12H	4H	17.75	18.22	18.66	19.15	20.30	20.31	20.78	21.23	21.71	22.86
	6H	18.06	18.45	19.00	19.39	20.55	20.78	21.16	21.71	22.10	23.26
	8H	18.14	18.47	19.07	19.41	20.62	20.94	21.28	21.88	22.22	23.43