

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: P934088

Luminaire Tested: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934088
REPORT IS A COMBINATION OF REPORTS P933683 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-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: -

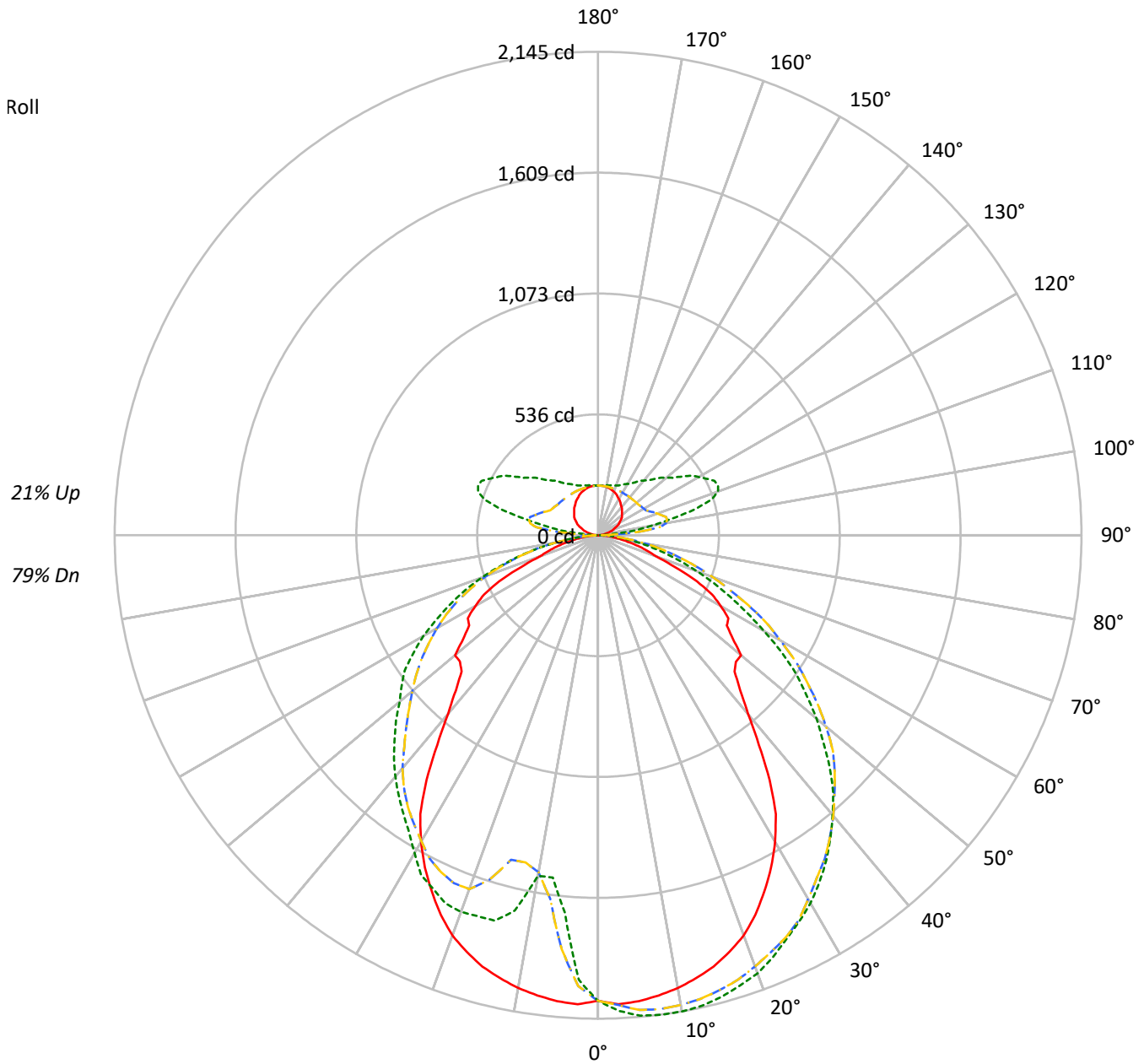
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6786.6 lumens
Efficiency: N/A
Efficacy: 116.6 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): 58.2
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



— 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	50	30	10
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79		
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67		
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56		
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47		
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41		
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22		
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

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	2.7
10°-20°	529.3	7.8
20°-30°	818.2	12.1
30°-40°	976.8	14.4
40°-50°	982.5	14.5
50°-60°	854.9	12.6
60°-70°	606.1	8.9
70°-80°	320.7	4.7
80°-90°	80.7	1.2
90°-100°	107.6	1.6
100°-110°	282.9	4.2
110°-120°	293.3	4.3
120°-130°	235.3	3.5
130°-140°	184.6	2.7
140°-150°	141.7	2.1
150°-160°	102.0	1.5
160°-170°	62.4	0.9
170°-180°	21.1	0.3
0°-30°	1534.0	22.6
0°-40°	2510.8	37.0
0°-60°	4348.3	64.1
0°-90°	5355.8	78.9
90°-120°	683.7	10.1
90°-150°	1245.2	18.3
90°-180°	1431.0	21.1
0°-180°	6786.6	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°	2	6	2	6	2	3
95°	14	65	14	65	14	16
105°	51	443	51	443	51	54
115°	90	570	90	570	90	89
125°	126	454	126	454	126	112
135°	150	352	150	352	150	116
145°	174	286	174	286	174	109
155°	197	246	197	246	197	90
165°	212	229	212	229	212	60
175°	221	222	221	222	221	21
180°	221	221	221	221	221	



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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°	1.5	2.7	3.8	4.1	6.5	9.7	11.2	10.0	7.5	5.6	5.6
92.5°	5.9	16.0	26.0	28.6	40.2	55.7	63.4	55.5	39.8	28.1	27.0
95°	14.2	32.6	51.1	55.7	98.9	156.5	185.3	165.4	125.4	95.5	92.2
97.5°	24.6	40.8	57.1	61.1	133.2	229.2	277.3	264.6	239.5	220.6	214.2
100°	32.6	47.3	62.1	65.8	145.7	252.3	305.6	306.4	308.3	309.7	302.0
102.5°	39.4	53.2	66.9	70.4	151.4	259.5	313.5	329.6	361.8	385.9	379.3
105°	51.0	62.6	74.2	77.2	155.7	260.3	312.7	348.6	420.7	474.8	471.2
107.5°	62.8	73.7	84.5	87.3	156.5	248.8	294.9	345.2	445.7	521.0	521.9
110°	70.8	80.7	90.4	92.9	155.3	238.5	280.1	336.3	448.6	532.8	536.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	78.7	88.0	97.3	99.7	155.3	229.5	266.6	324.1	439.1	525.2	530.9
115°	90.5	99.2	107.8	109.9	156.8	219.2	250.4	305.9	416.6	499.6	507.5
117.5°	102.2	110.0	117.8	119.8	159.6	212.8	239.4	289.4	389.3	464.2	472.9
120°	109.1	116.4	123.7	125.6	162.1	210.7	235.0	280.6	371.9	440.4	448.9
122.5°	115.7	123.2	130.5	132.4	165.5	209.5	231.5	272.6	354.9	416.6	425.0
125°	125.9	132.7	139.5	141.2	170.1	208.6	227.9	262.8	332.7	385.0	392.7
127.5°	134.2	141.0	147.9	149.6	174.6	208.0	224.7	254.7	314.7	359.7	366.2
130°	138.6	146.0	153.3	155.2	178.0	208.3	223.5	250.2	303.6	343.6	349.6
132.5°	143.3	150.7	158.0	159.8	180.7	208.6	222.5	246.4	294.2	330.0	335.3
135°	150.1	156.8	163.5	165.2	183.7	208.4	220.8	240.8	280.8	310.8	315.4
137.5°	157.1	163.7	170.3	172.0	188.1	209.7	220.5	237.4	271.2	296.6	300.3
140°	162.8	168.9	175.0	176.6	190.9	209.9	219.4	234.0	263.3	285.2	288.7
142.5°	167.2	172.8	178.6	179.9	193.1	210.6	219.4	232.2	257.9	277.2	280.2
145°	174.0	179.0	183.9	185.2	196.1	210.6	217.9	228.4	249.4	265.1	267.4
147.5°	180.8	185.7	190.5	191.7	200.5	212.1	217.9	226.2	242.7	255.1	257.0
150°	185.3	189.6	194.0	195.1	202.7	212.9	217.9	224.9	238.8	249.3	250.8
152.5°	189.9	193.2	196.5	197.3	204.2	213.4	217.9	223.8	235.8	244.7	245.9
155°	196.7	199.2	201.6	202.2	207.5	214.5	217.9	222.6	232.1	239.2	240.0
157.5°	201.7	204.1	206.5	207.1	210.7	215.5	217.9	221.6	228.9	234.5	235.1
160°	205.2	207.1	208.8	209.3	212.2	216.0	217.9	221.1	227.4	232.1	232.4
162.5°	208.5	209.9	211.3	211.7	213.8	216.5	217.9	220.6	225.9	229.9	230.2
165°	212.3	213.5	214.8	215.0	216.0	217.3	217.9	219.8	223.6	226.5	226.8
167.5°	215.6	216.2	216.8	217.0	217.8	218.9	219.4	220.7	223.1	225.0	225.1
170°	217.9	218.5	219.1	219.2	219.3	219.4	219.4	220.7	223.1	225.0	225.0
172.5°	219.1	219.2	219.4	219.4	219.4	219.4	219.4	220.4	222.3	223.8	223.7
175°	220.8	220.8	220.8	220.8	220.3	219.7	219.4	220.0	221.3	222.2	222.2
177.5°	220.8	220.8	220.8	220.8	220.4	219.9	219.7	220.2	221.2	221.9	221.8
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



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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°	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.2	9.7	6.5	4.1
92.5°	22.5	18.0	22.5	27.0	28.1	39.8	55.5	63.4	55.7	40.2	28.6
95°	78.6	65.1	78.6	92.2	95.5	125.4	165.4	185.3	156.5	98.9	55.7
97.5°	188.3	162.5	188.3	214.2	220.6	239.5	264.6	277.3	229.2	133.2	61.1
100°	271.3	240.6	271.3	302.0	309.7	308.3	306.4	305.6	252.3	145.7	65.8
102.5°	353.0	326.7	353.0	379.3	385.9	361.8	329.6	313.5	259.5	151.4	70.4
105°	457.1	442.9	457.1	471.2	474.8	420.7	348.6	312.7	260.3	155.7	77.2
107.5°	525.2	528.7	525.2	521.9	521.0	445.7	345.2	294.9	248.8	156.5	87.3
110°	551.3	566.1	551.3	536.5	532.8	448.6	336.3	280.1	238.5	155.3	92.9



TEST NUMBER: P934088

CATALOG NUMBER: SQ4-FA-025U-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°	553.5	576.2	553.5	530.9	525.2	439.1	324.1	266.6	229.5	155.3	99.7
115°	538.8	570.3	538.8	507.5	499.6	416.6	305.9	250.4	219.2	156.8	109.9
117.5°	507.8	542.6	507.8	472.9	464.2	389.3	289.4	239.4	212.8	159.6	119.8
120°	482.7	516.6	482.7	448.9	440.4	371.9	280.6	235.0	210.7	162.1	125.6
122.5°	458.3	491.6	458.3	425.0	416.6	354.9	272.6	231.5	209.5	165.5	132.4
125°	423.4	454.2	423.4	392.7	385.0	332.7	262.8	227.9	208.6	170.1	141.2
127.5°	392.1	418.1	392.1	366.2	359.7	314.7	254.7	224.7	208.0	174.6	149.6
130°	373.6	397.6	373.6	349.6	343.6	303.6	250.2	223.5	208.3	178.0	155.2
132.5°	356.8	378.3	356.8	335.3	330.0	294.2	246.4	222.5	208.6	180.7	159.8
135°	333.9	352.4	333.9	315.4	310.8	280.8	240.8	220.8	208.4	183.7	165.2
137.5°	315.5	330.6	315.5	300.3	296.6	271.2	237.4	220.5	209.7	188.1	172.0
140°	302.8	317.0	302.8	288.7	285.2	263.3	234.0	219.4	209.9	190.9	176.6
142.5°	292.3	304.6	292.3	280.2	277.2	257.9	232.2	219.4	210.6	193.1	179.9
145°	276.7	285.9	276.7	267.4	265.1	249.4	228.4	217.9	210.6	196.1	185.2
147.5°	264.6	272.2	264.6	257.0	255.1	242.7	226.2	217.9	212.1	200.5	191.7
150°	257.1	263.3	257.1	250.8	249.3	238.8	224.9	217.9	212.9	202.7	195.1
152.5°	250.5	255.3	250.5	245.9	244.7	235.8	223.8	217.9	213.4	204.2	197.3
155°	243.0	246.2	243.0	240.0	239.2	232.1	222.6	217.9	214.5	207.5	202.2
157.5°	237.2	239.4	237.2	235.1	234.5	228.9	221.6	217.9	215.5	210.7	207.1
160°	233.7	235.0	233.7	232.4	232.1	227.4	221.1	217.9	216.0	212.2	209.3
162.5°	231.4	232.6	231.4	230.2	229.9	225.9	220.6	217.9	216.5	213.8	211.7
165°	228.1	229.3	228.1	226.8	226.5	223.6	219.8	217.9	217.3	216.0	215.0
167.5°	225.7	226.2	225.7	225.1	225.0	223.1	220.7	219.4	218.9	217.8	217.0
170°	225.0	225.0	225.0	225.0	225.0	223.1	220.7	219.4	219.4	219.3	219.2
172.5°	223.2	222.8	223.2	223.7	223.8	222.3	220.4	219.4	219.4	219.4	219.4
175°	222.2	222.2	222.2	222.2	222.2	221.3	220.0	219.4	219.7	220.3	220.8
177.5°	221.3	220.8	221.3	221.8	221.9	221.2	220.2	219.7	219.9	220.4	220.8
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



TEST NUMBER: P934088

CATALOG NUMBER: SQ4-FA-025U-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°	3.8	2.7	1.5	2.7	3.8	4.1	6.5	9.7	11.2	10.0	7.5
92.5°	26.0	16.0	5.9	16.0	26.0	28.6	40.2	55.7	63.4	55.5	39.8
95°	51.1	32.6	14.2	32.6	51.1	55.7	98.9	156.5	185.3	165.4	125.4
97.5°	57.1	40.8	24.6	40.8	57.1	61.1	133.2	229.2	277.3	264.6	239.5
100°	62.1	47.3	32.6	47.3	62.1	65.8	145.7	252.3	305.6	306.4	308.3
102.5°	66.9	53.2	39.4	53.2	66.9	70.4	151.4	259.5	313.5	329.6	361.8
105°	74.2	62.6	51.0	62.6	74.2	77.2	155.7	260.3	312.7	348.6	420.7
107.5°	84.5	73.7	62.8	73.7	84.5	87.3	156.5	248.8	294.9	345.2	445.7
110°	90.4	80.7	70.8	80.7	90.4	92.9	155.3	238.5	280.1	336.3	448.6



TEST NUMBER: P934088

CATALOG NUMBER: SQ4-FA-025U-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°	97.3	88.0	78.7	88.0	97.3	99.7	155.3	229.5	266.6	324.1	439.1
115°	107.8	99.2	90.5	99.2	107.8	109.9	156.8	219.2	250.4	305.9	416.6
117.5°	117.8	110.0	102.2	110.0	117.8	119.8	159.6	212.8	239.4	289.4	389.3
120°	123.7	116.4	109.1	116.4	123.7	125.6	162.1	210.7	235.0	280.6	371.9
122.5°	130.5	123.2	115.7	123.2	130.5	132.4	165.5	209.5	231.5	272.6	354.9
125°	139.5	132.7	125.9	132.7	139.5	141.2	170.1	208.6	227.9	262.8	332.7
127.5°	147.9	141.0	134.2	141.0	147.9	149.6	174.6	208.0	224.7	254.7	314.7
130°	153.3	146.0	138.6	146.0	153.3	155.2	178.0	208.3	223.5	250.2	303.6
132.5°	158.0	150.7	143.3	150.7	158.0	159.8	180.7	208.6	222.5	246.4	294.2
135°	163.5	156.8	150.1	156.8	163.5	165.2	183.7	208.4	220.8	240.8	280.8
137.5°	170.3	163.7	157.1	163.7	170.3	172.0	188.1	209.7	220.5	237.4	271.2
140°	175.0	168.9	162.8	168.9	175.0	176.6	190.9	209.9	219.4	234.0	263.3
142.5°	178.6	172.8	167.2	172.8	178.6	179.9	193.1	210.6	219.4	232.2	257.9
145°	183.9	179.0	174.0	179.0	183.9	185.2	196.1	210.6	217.9	228.4	249.4
147.5°	190.5	185.7	180.8	185.7	190.5	191.7	200.5	212.1	217.9	226.2	242.7
150°	194.0	189.6	185.3	189.6	194.0	195.1	202.7	212.9	217.9	224.9	238.8
152.5°	196.5	193.2	189.9	193.2	196.5	197.3	204.2	213.4	217.9	223.8	235.8
155°	201.6	199.2	196.7	199.2	201.6	202.2	207.5	214.5	217.9	222.6	232.1
157.5°	206.5	204.1	201.7	204.1	206.5	207.1	210.7	215.5	217.9	221.6	228.9
160°	208.8	207.1	205.2	207.1	208.8	209.3	212.2	216.0	217.9	221.1	227.4
162.5°	211.3	209.9	208.5	209.9	211.3	211.7	213.8	216.5	217.9	220.6	225.9
165°	214.8	213.5	212.3	213.5	214.8	215.0	216.0	217.3	217.9	219.8	223.6
167.5°	216.8	216.2	215.6	216.2	216.8	217.0	217.8	218.9	219.4	220.7	223.1
170°	219.1	218.5	217.9	218.5	219.1	219.2	219.3	219.4	219.4	220.7	223.1
172.5°	219.4	219.2	219.1	219.2	219.4	219.4	219.4	219.4	219.4	220.4	222.3
175°	220.8	220.8	220.8	220.8	220.8	220.8	220.3	219.7	219.4	220.0	221.3
177.5°	220.8	220.8	220.8	220.8	220.8	220.8	220.4	219.9	219.7	220.2	221.2
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



TEST NUMBER: P934088

CATALOG NUMBER: SQ4-FA-025U-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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.2	9.7
92.5°	28.1	27.0	22.5	18.0	22.5	27.0	28.1	39.8	55.5	63.4	55.7
95°	95.5	92.2	78.6	65.1	78.6	92.2	95.5	125.4	165.4	185.3	156.5
97.5°	220.6	214.2	188.3	162.5	188.3	214.2	220.6	239.5	264.6	277.3	229.2
100°	309.7	302.0	271.3	240.6	271.3	302.0	309.7	308.3	306.4	305.6	252.3
102.5°	385.9	379.3	353.0	326.7	353.0	379.3	385.9	361.8	329.6	313.5	259.5
105°	474.8	471.2	457.1	442.9	457.1	471.2	474.8	420.7	348.6	312.7	260.3
107.5°	521.0	521.9	525.2	528.7	525.2	521.9	521.0	445.7	345.2	294.9	248.8
110°	532.8	536.5	551.3	566.1	551.3	536.5	532.8	448.6	336.3	280.1	238.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	525.2	530.9	553.5	576.2	553.5	530.9	525.2	439.1	324.1	266.6	229.5
115°	499.6	507.5	538.8	570.3	538.8	507.5	499.6	416.6	305.9	250.4	219.2
117.5°	464.2	472.9	507.8	542.6	507.8	472.9	464.2	389.3	289.4	239.4	212.8
120°	440.4	448.9	482.7	516.6	482.7	448.9	440.4	371.9	280.6	235.0	210.7
122.5°	416.6	425.0	458.3	491.6	458.3	425.0	416.6	354.9	272.6	231.5	209.5
125°	385.0	392.7	423.4	454.2	423.4	392.7	385.0	332.7	262.8	227.9	208.6
127.5°	359.7	366.2	392.1	418.1	392.1	366.2	359.7	314.7	254.7	224.7	208.0
130°	343.6	349.6	373.6	397.6	373.6	349.6	343.6	303.6	250.2	223.5	208.3
132.5°	330.0	335.3	356.8	378.3	356.8	335.3	330.0	294.2	246.4	222.5	208.6
135°	310.8	315.4	333.9	352.4	333.9	315.4	310.8	280.8	240.8	220.8	208.4
137.5°	296.6	300.3	315.5	330.6	315.5	300.3	296.6	271.2	237.4	220.5	209.7
140°	285.2	288.7	302.8	317.0	302.8	288.7	285.2	263.3	234.0	219.4	209.9
142.5°	277.2	280.2	292.3	304.6	292.3	280.2	277.2	257.9	232.2	219.4	210.6
145°	265.1	267.4	276.7	285.9	276.7	267.4	265.1	249.4	228.4	217.9	210.6
147.5°	255.1	257.0	264.6	272.2	264.6	257.0	255.1	242.7	226.2	217.9	212.1
150°	249.3	250.8	257.1	263.3	257.1	250.8	249.3	238.8	224.9	217.9	212.9
152.5°	244.7	245.9	250.5	255.3	250.5	245.9	244.7	235.8	223.8	217.9	213.4
155°	239.2	240.0	243.0	246.2	243.0	240.0	239.2	232.1	222.6	217.9	214.5
157.5°	234.5	235.1	237.2	239.4	237.2	235.1	234.5	228.9	221.6	217.9	215.5
160°	232.1	232.4	233.7	235.0	233.7	232.4	232.1	227.4	221.1	217.9	216.0
162.5°	229.9	230.2	231.4	232.6	231.4	230.2	229.9	225.9	220.6	217.9	216.5
165°	226.5	226.8	228.1	229.3	228.1	226.8	226.5	223.6	219.8	217.9	217.3
167.5°	225.0	225.1	225.7	226.2	225.7	225.1	225.0	223.1	220.7	219.4	218.9
170°	225.0	225.0	225.0	225.0	225.0	225.0	225.0	223.1	220.7	219.4	219.4
172.5°	223.8	223.7	223.2	222.8	223.2	223.7	223.8	222.3	220.4	219.4	219.4
175°	222.2	222.2	222.2	222.2	222.2	222.2	222.2	221.3	220.0	219.4	219.7
177.5°	221.9	221.8	221.3	220.8	221.3	221.8	221.9	221.2	220.2	219.7	219.9
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



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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°	6.5	4.1	3.8	2.7	1.5
92.5°	40.2	28.6	26.0	16.0	5.9
95°	98.9	55.7	51.1	32.6	14.2
97.5°	133.2	61.1	57.1	40.8	24.6
100°	145.7	65.8	62.1	47.3	32.6
102.5°	151.4	70.4	66.9	53.2	39.4
105°	155.7	77.2	74.2	62.6	51.0
107.5°	156.5	87.3	84.5	73.7	62.8
110°	155.3	92.9	90.4	80.7	70.8



TEST NUMBER: P934088

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	155.3	99.7	97.3	88.0	78.7
115°	156.8	109.9	107.8	99.2	90.5
117.5°	159.6	119.8	117.8	110.0	102.2
120°	162.1	125.6	123.7	116.4	109.1
122.5°	165.5	132.4	130.5	123.2	115.7
125°	170.1	141.2	139.5	132.7	125.9
127.5°	174.6	149.6	147.9	141.0	134.2
130°	178.0	155.2	153.3	146.0	138.6
132.5°	180.7	159.8	158.0	150.7	143.3
135°	183.7	165.2	163.5	156.8	150.1
137.5°	188.1	172.0	170.3	163.7	157.1
140°	190.9	176.6	175.0	168.9	162.8
142.5°	193.1	179.9	178.6	172.8	167.2
145°	196.1	185.2	183.9	179.0	174.0
147.5°	200.5	191.7	190.5	185.7	180.8
150°	202.7	195.1	194.0	189.6	185.3
152.5°	204.2	197.3	196.5	193.2	189.9
155°	207.5	202.2	201.6	199.2	196.7
157.5°	210.7	207.1	206.5	204.1	201.7
160°	212.2	209.3	208.8	207.1	205.2
162.5°	213.8	211.7	211.3	209.9	208.5
165°	216.0	215.0	214.8	213.5	212.3
167.5°	217.8	217.0	216.8	216.2	215.6
170°	219.3	219.2	219.1	218.5	217.9
172.5°	219.4	219.4	219.4	219.2	219.1
175°	220.3	220.8	220.8	220.8	220.8
177.5°	220.4	220.8	220.8	220.8	220.8
180°	220.8	220.8	220.8	220.8	220.8



TEST NUMBER: P934088
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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	15.99	17.19	16.65	17.86	18.65	18.81	20.01	19.47	20.69	21.48
	3H	16.49	17.57	17.17	18.26	19.08	20.18	21.26	20.86	21.95	22.77
	4H	16.70	17.71	17.39	18.41	19.25	20.64	21.66	21.33	22.35	23.19
	6H	16.83	17.77	17.54	18.48	19.33	20.94	21.88	21.65	22.59	23.44
	8H	16.84	17.74	17.56	18.47	19.32	21.02	21.92	21.74	22.65	23.50
	12H	16.83	17.68	17.55	18.40	19.28	21.07	21.93	21.80	22.65	23.53
4H	2H	17.06	18.07	17.76	18.77	19.61	19.26	20.28	19.96	20.98	21.81
	3H	18.12	18.96	18.83	19.70	20.55	20.80	21.64	21.51	22.38	23.23
	4H	18.41	19.18	19.13	19.91	20.80	21.34	22.11	22.07	22.85	23.73
	6H	18.55	19.22	19.30	19.98	20.87	21.72	22.39	22.47	23.15	24.04
	8H	18.57	19.19	19.32	19.95	20.85	21.83	22.46	22.58	23.22	24.12
	12H	18.55	19.11	19.32	19.89	20.80	21.91	22.47	22.68	23.25	24.16
8H	4H	18.89	19.51	19.64	20.27	21.17	21.49	22.11	22.24	22.87	23.78
	6H	19.16	19.68	19.94	20.48	21.39	21.94	22.45	22.72	23.26	24.16
	8H	19.21	19.67	20.00	20.47	21.39	22.09	22.55	22.89	23.36	24.28
	12H	19.21	19.61	20.00	20.41	21.39	22.21	22.61	23.00	23.40	24.38
12H	4H	18.91	19.47	19.68	20.25	21.16	21.47	22.03	22.24	22.81	23.72
	6H	19.23	19.69	20.02	20.49	21.41	21.94	22.40	22.73	23.20	24.12
	8H	19.31	19.71	20.10	20.51	21.49	22.11	22.52	22.91	23.31	24.29