

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: P934087

Luminaire Tested: SQ4-FA-025U-100D-B2750-1D-UNV-W2A-W-6-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934087
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-W2A-W-6-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

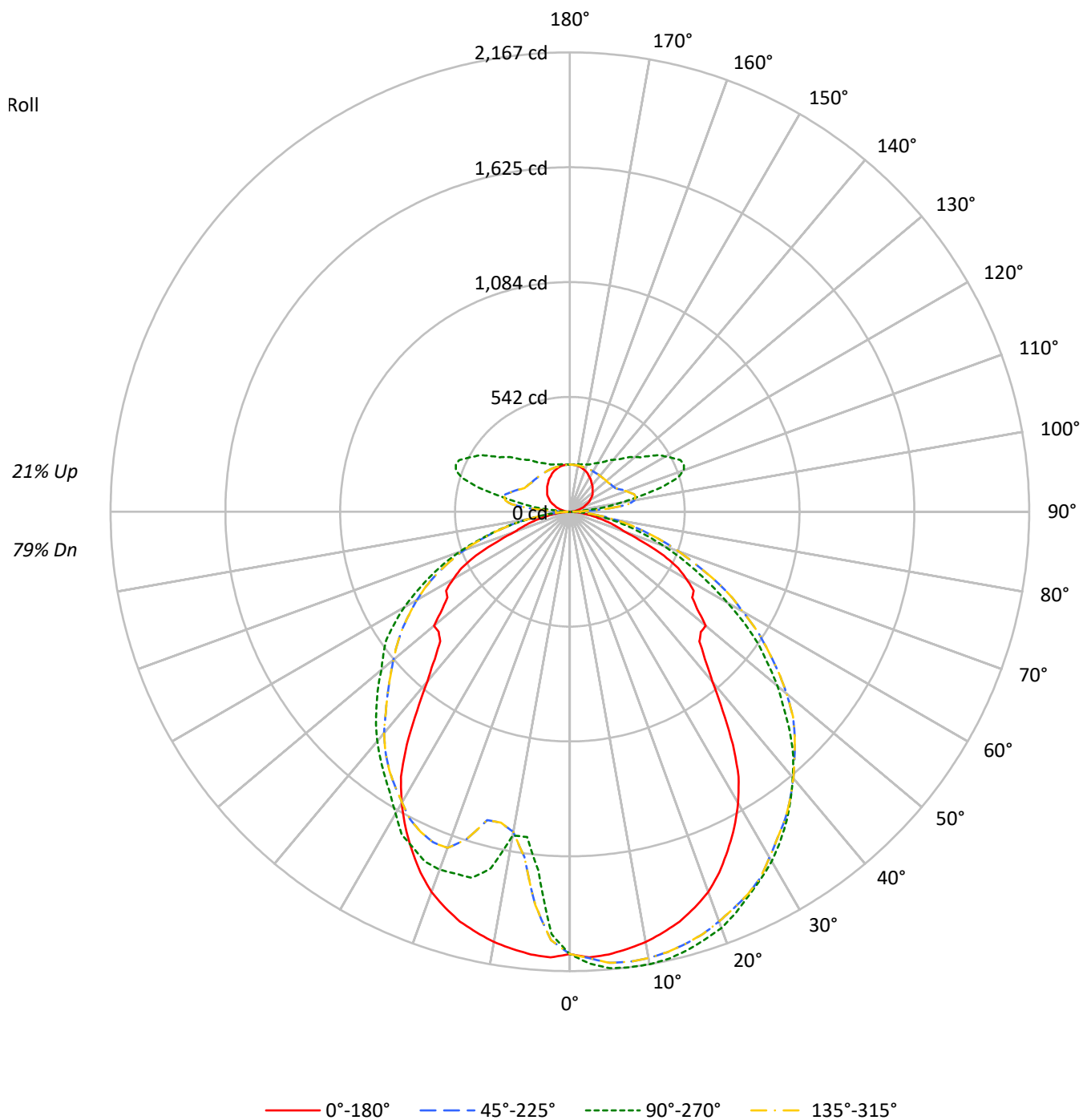
Lumens per Lamp: N/A
Luminaire Lumens: 6855.5 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P934087

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-W2A-W-6-2700K

Luminous Intensity Polar Plot



TEST NUMBER: P934087

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12906	12906	12906	12906
5°	12997	13028	12997	10244
10°	12906	12833	12906	9175
15°	12761	12555	12761	10484
20°	12489	12226	12489	10506
25°	11937	11746	11937	10283
30°	11227	11347	11227	9794
35°	10004	10841	10004	9257
40°	8331	10248	8331	8851
45°	7439	9553	7439	8384
50°	7896	8724	7896	7916
55°	7424	7830	7424	7646
60°	7642	6651	7642	7002
65°	6918	5497	6918	6145
70°	4779	4381	4779	5151
75°	4176	3239	4176	3879
80°	3339	2142	3339	2331
85°	1884	1135	1884	964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 11410 cd/sqm

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CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-W2A-W-6-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	2.7
10°-20°	534.7	7.8
20°-30°	826.5	12.1
30°-40°	986.7	14.4
40°-50°	992.5	14.5
50°-60°	863.6	12.6
60°-70°	612.3	8.9
70°-80°	323.9	4.7
80°-90°	81.5	1.2
90°-100°	108.7	1.6
100°-110°	285.7	4.2
110°-120°	296.3	4.3
120°-130°	237.7	3.5
130°-140°	186.5	2.7
140°-150°	143.1	2.1
150°-160°	103.1	1.5
160°-170°	63.1	0.9
170°-180°	21.3	0.3
0°-30°	1549.6	22.6
0°-40°	2536.3	37.0
0°-60°	4392.4	64.1
0°-90°	5410.1	78.9
90°-120°	690.7	10.1
90°-150°	1257.9	18.3
90°-180°	1445.0	21.1
0°-180°	6855.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2086	2086	2086	2086	2086	
5°	2096	2161	2096	1699	2096	199
15°	2001	2142	2001	1788	2001	563
25°	1762	1998	1762	1749	1762	809
35°	1340	1782	1340	1522	1340	829
45°	864	1468	864	1289	864	692
55°	705	1084	705	1058	705	647
65°	490	653	490	730	490	468
75°	186	310	186	371	186	195
85°	32	79	32	67	32	43
90°	2	6	2	6	2	3
95°	14	66	14	66	14	16
105°	52	447	52	447	52	55
115°	91	576	91	576	91	90
125°	127	459	127	459	127	113
135°	152	356	152	356	152	117
145°	176	289	176	289	176	110
155°	199	249	199	249	199	91
165°	214	232	214	232	214	61
175°	223	224	223	224	223	21
180°	223	223	223	223	223	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2104.0	2104.0	2115.9	2119.8	2119.8	2113.9	2107.9	2113.9	2131.6	2137.6	2135.6
5°	2096.1	2111.9	2133.6	2137.6	2141.5	2139.5	2135.6	2139.5	2159.2	2163.2	2165.2
7.5°	2080.3	2109.9	2137.6	2143.5	2149.4	2143.5	2141.5	2145.5	2165.2	2169.2	2169.2
10°	2060.6	2102.1	2133.6	2137.6	2143.5	2137.6	2137.6	2145.5	2165.2	2169.2	2171.1
12.5°	2032.9	2090.2	2119.8	2123.8	2131.6	2129.6	2127.7	2135.6	2155.3	2159.2	2159.2
15°	2001.4	2068.5	2096.1	2100.1	2113.9	2109.9	2109.9	2117.8	2139.5	2145.5	2143.5
17.5°	1957.9	2040.8	2072.5	2078.4	2088.2	2086.2	2088.2	2096.1	2115.9	2119.8	2121.8
20°	1908.6	2003.4	2040.8	2046.8	2056.6	2056.6	2056.6	2066.5	2086.2	2094.2	2094.2
22.5°	1841.5	1963.9	2003.4	2007.3	2019.2	2019.2	2023.1	2036.9	2054.6	2056.6	2056.6
25°	1762.5	1920.5	1954.1	1965.8	1977.7	1983.6	1989.5	1997.5	2003.4	2001.4	2003.4
27.5°	1679.7	1865.2	1908.6	1916.5	1932.3	1938.2	1946.1	1948.1	1950.1	1955.9	1952.1
30°	1586.9	1788.2	1853.4	1861.2	1886.9	1890.8	1882.9	1886.9	1896.8	1900.8	1904.7
32.5°	1482.2	1673.8	1796.1	1813.9	1837.5	1825.7	1823.8	1829.7	1845.5	1845.5	1849.4
35°	1340.2	1584.9	1742.8	1758.6	1776.4	1762.5	1770.5	1772.4	1782.2	1788.2	1786.2
37.5°	1184.2	1507.9	1687.5	1699.4	1713.2	1695.5	1707.2	1713.2	1721.1	1717.2	1717.2
40°	1046.1	1387.5	1622.4	1630.4	1642.2	1628.4	1640.2	1644.1	1648.1	1644.1	1642.2
42.5°	943.4	1255.3	1553.4	1563.2	1555.4	1565.2	1569.1	1577.1	1571.1	1563.2	1563.2
45°	864.5	1219.8	1478.4	1490.2	1478.4	1494.1	1500.1	1500.1	1482.2	1478.4	1476.4
47.5°	838.8	1148.7	1403.4	1403.4	1397.4	1417.1	1427.0	1413.2	1395.4	1389.5	1389.5
50°	836.8	1069.8	1300.7	1292.8	1320.4	1344.1	1334.2	1320.4	1306.7	1284.9	1284.9
52.5°	759.8	973.1	1168.4	1198.1	1241.5	1255.3	1239.5	1225.7	1202.0	1192.1	1184.2
55°	704.7	872.4	1048.1	1107.3	1152.7	1170.4	1140.8	1127.0	1091.5	1085.5	1081.7
57.5°	692.8	726.4	937.5	1012.5	1067.8	1065.8	1048.1	1022.4	992.8	986.8	984.9
60°	635.5	525.0	819.1	908.0	965.1	959.2	943.4	919.8	892.1	888.2	884.2
62.5°	576.3	381.0	684.8	785.5	866.5	864.5	850.7	815.1	795.4	785.5	777.7
65°	489.5	319.7	487.5	653.3	769.8	773.7	744.1	718.4	696.7	684.8	683.0
67.5°	373.0	260.6	329.6	544.7	677.0	673.1	635.5	623.7	596.1	590.1	578.3
70°	276.3	173.7	229.0	442.1	586.2	576.3	546.7	533.0	507.3	493.4	485.6
72.5°	229.0	140.1	167.7	343.4	493.4	481.6	456.0	440.1	418.4	406.6	398.7
75°	185.6	148.0	128.3	254.6	400.7	392.8	369.1	353.3	335.6	319.7	321.7
77.5°	136.2	138.1	102.6	187.5	317.7	306.0	292.1	272.4	264.4	248.7	248.7
80°	102.6	108.6	77.0	128.3	229.0	229.0	217.1	203.3	189.4	181.6	181.6
82.5°	69.1	69.1	57.3	80.9	156.0	150.0	142.1	138.1	130.3	126.3	126.3
85°	31.6	39.4	35.6	49.3	84.9	88.8	88.8	84.9	82.9	79.0	80.9
87.5°	9.9	17.7	21.7	27.6	43.4	45.4	47.4	47.4	47.4	49.3	49.3
90°	1.5	2.7	3.9	4.2	6.6	9.8	11.4	10.1	7.6	5.7	5.7
92.5°	6.0	16.1	26.3	28.9	40.6	56.3	64.0	56.1	40.2	28.4	27.3
95°	14.3	33.0	51.6	56.3	99.9	158.1	187.1	167.0	126.7	96.5	93.1
97.5°	24.8	41.2	57.7	61.8	134.6	231.6	280.1	267.3	241.9	222.8	216.3
100°	33.0	47.8	62.7	66.4	147.2	254.9	308.7	309.6	311.4	312.8	305.1
102.5°	39.8	53.8	67.6	71.1	153.0	262.1	316.7	333.0	365.4	389.8	383.2
105°	51.5	63.2	75.0	78.0	157.3	262.9	315.8	352.2	425.0	479.6	476.0
107.5°	63.4	74.4	85.4	88.1	158.1	251.3	297.9	348.7	450.2	526.3	527.2
110°	71.5	81.5	91.3	93.8	156.9	240.9	283.0	339.7	453.2	538.2	541.9

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CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-W2A-W-6-2700K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	79.5	88.9	98.3	100.7	156.9	231.9	269.3	327.4	443.5	530.6	536.2
115°	91.4	100.2	108.9	111.1	158.4	221.4	253.0	309.0	420.8	504.7	512.6
117.5°	103.3	111.2	119.0	121.0	161.3	214.9	241.8	292.3	393.2	468.9	477.7
120°	110.2	117.6	125.0	126.9	163.7	212.8	237.3	283.5	375.7	444.9	453.5
122.5°	116.8	124.4	131.9	133.8	167.1	211.6	233.9	275.4	358.5	420.8	429.3
125°	127.2	134.1	140.9	142.6	171.8	210.8	230.2	265.4	336.1	388.9	396.7
127.5°	135.6	142.4	149.4	151.1	176.4	210.2	227.0	257.3	317.9	363.3	369.9
130°	140.0	147.5	154.9	156.8	179.8	210.5	225.8	252.8	306.7	347.1	353.2
132.5°	144.7	152.2	159.6	161.5	182.6	210.8	224.8	248.9	297.2	333.4	338.7
135°	151.6	158.4	165.1	166.8	185.6	210.6	223.0	243.2	283.7	313.9	318.6
137.5°	158.7	165.3	172.0	173.7	190.0	211.8	222.7	239.8	274.0	299.6	303.4
140°	164.4	170.6	176.8	178.4	192.8	212.0	221.6	236.4	265.9	288.0	291.6
142.5°	168.9	174.6	180.4	181.8	195.0	212.7	221.6	234.6	260.6	280.0	283.1
145°	175.8	180.8	185.8	187.0	198.1	212.7	220.1	230.7	251.9	267.8	270.1
147.5°	182.7	187.5	192.4	193.6	202.5	214.2	220.1	228.5	245.1	257.7	259.6
150°	187.1	191.5	196.0	197.1	204.8	215.0	220.1	227.2	241.2	251.8	253.4
152.5°	191.8	195.1	198.5	199.3	206.3	215.5	220.1	226.1	238.1	247.2	248.4
155°	198.7	201.2	203.7	204.3	209.6	216.6	220.1	224.9	234.5	241.6	242.4
157.5°	203.8	206.2	208.6	209.2	212.8	217.7	220.1	223.8	231.3	236.8	237.4
160°	207.3	209.2	211.0	211.5	214.3	218.2	220.1	223.3	229.7	234.5	234.8
162.5°	210.7	212.0	213.4	213.8	215.9	218.7	220.1	222.8	228.2	232.3	232.6
165°	214.4	215.6	216.9	217.2	218.2	219.5	220.1	222.0	225.9	228.8	229.1
167.5°	217.8	218.4	219.0	219.2	220.0	221.1	221.6	222.9	225.4	227.3	227.4
170°	220.1	220.7	221.3	221.4	221.5	221.6	221.6	222.9	225.4	227.3	227.3
172.5°	221.3	221.4	221.6	221.6	221.6	221.6	221.6	222.6	224.6	226.1	226.0
175°	223.0	223.0	223.0	223.0	222.5	221.9	221.6	222.2	223.5	224.5	224.5
177.5°	223.0	223.0	223.0	223.0	222.6	222.1	221.9	222.4	223.4	224.2	224.1
180°	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2139.5	2133.6	2139.5	2135.6	2137.6	2131.6	2113.9	2107.9	2113.9	2119.8	2119.8
5°	2165.2	2161.2	2165.2	2165.2	2163.2	2159.2	2139.5	2135.6	2139.5	2141.5	2137.6
7.5°	2173.1	2167.2	2173.1	2169.2	2169.2	2165.2	2145.5	2141.5	2143.5	2149.4	2143.5
10°	2173.1	2167.2	2173.1	2171.1	2169.2	2165.2	2145.5	2137.6	2137.6	2143.5	2137.6
12.5°	2163.2	2159.2	2163.2	2159.2	2159.2	2155.3	2135.6	2127.7	2129.6	2131.6	2123.8
15°	2147.5	2141.5	2147.5	2143.5	2145.5	2139.5	2117.8	2109.9	2109.9	2113.9	2100.1
17.5°	2123.8	2115.9	2123.8	2121.8	2119.8	2115.9	2096.1	2088.2	2086.2	2088.2	2078.4
20°	2096.1	2090.2	2096.1	2094.2	2094.2	2086.2	2066.5	2056.6	2056.6	2056.6	2046.8
22.5°	2052.7	2046.8	2052.7	2056.6	2056.6	2054.6	2036.9	2023.1	2019.2	2019.2	2007.3
25°	2003.4	1997.5	2003.4	2003.4	2001.4	2003.4	1997.5	1989.5	1983.6	1977.7	1965.8
27.5°	1955.9	1952.1	1955.9	1952.1	1955.9	1950.1	1948.1	1946.1	1938.2	1932.3	1916.5
30°	1908.6	1904.7	1908.6	1904.7	1900.8	1896.8	1886.9	1882.9	1890.8	1886.9	1861.2
32.5°	1849.4	1845.5	1849.4	1849.4	1845.5	1845.5	1829.7	1823.8	1825.7	1837.5	1813.9
35°	1788.2	1782.2	1788.2	1786.2	1788.2	1782.2	1772.4	1770.5	1762.5	1776.4	1758.6
37.5°	1717.2	1711.2	1717.2	1717.2	1717.2	1721.1	1713.2	1707.2	1695.5	1713.2	1699.4
40°	1644.1	1636.2	1644.1	1642.2	1644.1	1648.1	1644.1	1640.2	1628.4	1642.2	1630.4
42.5°	1561.2	1559.2	1561.2	1563.2	1563.2	1571.1	1577.1	1569.1	1565.2	1555.4	1563.2
45°	1472.4	1468.5	1472.4	1476.4	1478.4	1482.2	1500.1	1500.1	1494.1	1478.4	1490.2
47.5°	1377.7	1367.8	1377.7	1389.5	1389.5	1395.4	1413.2	1427.0	1417.1	1397.4	1403.4
50°	1277.0	1279.0	1277.0	1284.9	1284.9	1306.7	1320.4	1334.2	1344.1	1320.4	1292.8
52.5°	1178.4	1176.4	1178.4	1184.2	1192.1	1202.0	1225.7	1239.5	1255.3	1241.5	1198.1
55°	1079.7	1083.5	1079.7	1081.7	1085.5	1091.5	1127.0	1140.8	1170.4	1152.7	1107.3
57.5°	981.0	975.0	981.0	984.9	986.8	992.8	1022.4	1048.1	1065.8	1067.8	1012.5
60°	866.5	858.6	866.5	884.2	888.2	892.1	919.8	943.4	959.2	965.1	908.0
62.5°	765.8	752.0	765.8	777.7	785.5	795.4	815.1	850.7	864.5	866.5	785.5
65°	659.3	653.3	659.3	683.0	684.8	696.7	718.4	744.1	773.7	769.8	653.3
67.5°	562.5	562.5	562.5	578.3	590.1	596.1	623.7	635.5	673.1	677.0	544.7
70°	473.7	471.7	473.7	485.6	493.4	507.3	533.0	546.7	576.3	586.2	442.1
72.5°	388.8	386.8	388.8	398.7	406.6	418.4	440.1	456.0	481.6	493.4	343.4
75°	313.8	309.9	313.8	321.7	319.7	335.6	353.3	369.1	392.8	400.7	254.6
77.5°	240.8	240.8	240.8	248.7	248.7	264.4	272.4	292.1	306.0	317.7	187.5
80°	179.6	177.7	179.6	181.6	181.6	189.4	203.3	217.1	229.0	229.0	128.3
82.5°	126.3	122.4	126.3	126.3	126.3	130.3	138.1	142.1	150.0	156.0	80.9
85°	79.0	79.0	79.0	80.9	79.0	82.9	84.9	88.8	88.8	84.9	49.3
87.5°	51.3	49.3	51.3	49.3	49.3	47.4	47.4	47.4	45.4	43.4	27.6
90°	5.7	5.7	5.7	5.7	5.7	7.6	10.1	11.4	9.8	6.6	4.2
92.5°	22.7	18.2	22.7	27.3	28.4	40.2	56.1	64.0	56.3	40.6	28.9
95°	79.4	65.7	79.4	93.1	96.5	126.7	167.0	187.1	158.1	99.9	56.3
97.5°	190.2	164.1	190.2	216.3	222.8	241.9	267.3	280.1	231.6	134.6	61.8
100°	274.1	243.0	274.1	305.1	312.8	311.4	309.6	308.7	254.9	147.2	66.4
102.5°	356.6	330.0	356.6	383.2	389.8	365.4	333.0	316.7	262.1	153.0	71.1
105°	461.7	447.4	461.7	476.0	479.6	425.0	352.2	315.8	262.9	157.3	78.0
107.5°	530.6	534.1	530.6	527.2	526.3	450.2	348.7	297.9	251.3	158.1	88.1
110°	556.9	571.8	556.9	541.9	538.2	453.2	339.7	283.0	240.9	156.9	93.8

TEST NUMBER: P934087

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-W2A-W-6-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	559.2	582.1	559.2	536.2	530.6	443.5	327.4	269.3	231.9	156.9	100.7
115°	544.3	576.1	544.3	512.6	504.7	420.8	309.0	253.0	221.4	158.4	111.1
117.5°	512.9	548.1	512.9	477.7	468.9	393.2	292.3	241.8	214.9	161.3	121.0
120°	487.6	521.8	487.6	453.5	444.9	375.7	283.5	237.3	212.8	163.7	126.9
122.5°	462.9	496.6	462.9	429.3	420.8	358.5	275.4	233.9	211.6	167.1	133.8
125°	427.7	458.8	427.7	396.7	388.9	336.1	265.4	230.2	210.8	171.8	142.6
127.5°	396.1	422.3	396.1	369.9	363.3	317.9	257.3	227.0	210.2	176.4	151.1
130°	377.4	401.6	377.4	353.2	347.1	306.7	252.8	225.8	210.5	179.8	156.8
132.5°	360.5	382.2	360.5	338.7	333.4	297.2	248.9	224.8	210.8	182.6	161.5
135°	337.2	356.0	337.2	318.6	313.9	283.7	243.2	223.0	210.6	185.6	166.8
137.5°	318.7	334.0	318.7	303.4	299.6	274.0	239.8	222.7	211.8	190.0	173.7
140°	305.9	320.2	305.9	291.6	288.0	265.9	236.4	221.6	212.0	192.8	178.4
142.5°	295.3	307.7	295.3	283.1	280.0	260.6	234.6	221.6	212.7	195.0	181.8
145°	279.5	288.8	279.5	270.1	267.8	251.9	230.7	220.1	212.7	198.1	187.0
147.5°	267.3	275.0	267.3	259.6	257.7	245.1	228.5	220.1	214.2	202.5	193.6
150°	259.7	265.9	259.7	253.4	251.8	241.2	227.2	220.1	215.0	204.8	197.1
152.5°	253.1	257.9	253.1	248.4	247.2	238.1	226.1	220.1	215.5	206.3	199.3
155°	245.5	248.7	245.5	242.4	241.6	234.5	224.9	220.1	216.6	209.6	204.3
157.5°	239.6	241.8	239.6	237.4	236.8	231.3	223.8	220.1	217.7	212.8	209.2
160°	236.1	237.3	236.1	234.8	234.5	229.7	223.3	220.1	218.2	214.3	211.5
162.5°	233.8	235.0	233.8	232.6	232.3	228.2	222.8	220.1	218.7	215.9	213.8
165°	230.4	231.7	230.4	229.1	228.8	225.9	222.0	220.1	219.5	218.2	217.2
167.5°	228.0	228.5	228.0	227.4	227.3	225.4	222.9	221.6	221.1	220.0	219.2
170°	227.3	227.3	227.3	227.3	227.3	225.4	222.9	221.6	221.6	221.5	221.4
172.5°	225.5	225.1	225.5	226.0	226.1	224.6	222.6	221.6	221.6	221.6	221.6
175°	224.5	224.5	224.5	224.5	224.5	223.5	222.2	221.6	221.9	222.5	223.0
177.5°	223.5	223.0	223.5	224.1	224.2	223.4	222.4	221.9	222.1	222.6	223.0
180°	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0

TEST NUMBER: P934087

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-W2A-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2115.9	2104.0	2104.0	2084.2	2076.4	2070.5	2060.6	2030.9	2023.1	2015.2	2027.1
5°	2133.6	2111.9	2096.1	2060.6	2030.9	2019.2	1981.6	1910.6	1863.2	1827.7	1807.9
7.5°	2137.6	2109.9	2080.3	2025.1	1954.1	1922.4	1807.9	1677.7	1642.2	1610.5	1590.8
10°	2133.6	2102.1	2060.6	1977.7	1809.9	1754.7	1640.2	1555.4	1533.6	1527.7	1533.6
12.5°	2119.8	2090.2	2032.9	1894.8	1659.9	1622.4	1555.4	1506.0	1502.1	1511.9	1565.2
15°	2096.1	2068.5	2001.4	1784.2	1577.1	1549.4	1502.1	1484.2	1506.0	1575.1	1734.9
17.5°	2072.5	2040.8	1957.9	1675.7	1513.8	1494.1	1460.5	1496.1	1618.5	1711.2	1764.5
20°	2040.8	2003.4	1908.6	1596.8	1468.5	1450.7	1434.9	1594.8	1687.5	1721.1	1750.7
22.5°	2003.4	1963.9	1841.5	1541.5	1421.1	1407.2	1417.1	1650.1	1687.5	1711.2	1736.9
25°	1954.1	1920.5	1762.5	1498.1	1383.6	1367.8	1405.4	1644.1	1665.8	1671.8	1723.1
27.5°	1908.6	1865.2	1679.7	1458.6	1338.2	1332.2	1415.2	1618.5	1634.2	1640.2	1695.5
30°	1853.4	1788.2	1586.9	1417.1	1290.8	1288.8	1417.1	1586.9	1582.9	1598.8	1654.0
32.5°	1796.1	1673.8	1482.2	1365.8	1245.4	1243.5	1403.4	1539.5	1535.5	1557.2	1598.8
35°	1742.8	1584.9	1340.2	1306.7	1188.2	1190.1	1369.8	1484.2	1486.2	1506.0	1531.6
37.5°	1687.5	1507.9	1184.2	1241.5	1133.0	1133.0	1324.4	1432.9	1429.0	1434.9	1470.4
40°	1622.4	1387.5	1046.1	1156.7	1081.7	1075.7	1269.1	1377.7	1363.8	1361.9	1411.2
42.5°	1553.4	1255.3	943.4	1044.1	1022.4	1014.5	1202.0	1310.5	1284.9	1290.8	1354.0
45°	1478.4	1219.8	864.5	882.3	961.2	955.3	1129.0	1233.5	1215.8	1231.7	1296.8
47.5°	1403.4	1148.7	838.8	732.3	896.1	894.1	1048.1	1158.5	1148.7	1164.5	1233.5
50°	1300.7	1069.8	836.8	627.7	823.1	831.0	951.4	1085.5	1085.5	1099.4	1172.4
52.5°	1168.4	973.1	759.8	568.4	738.1	761.8	866.5	1022.4	1026.4	1040.1	1105.3
55°	1048.1	872.4	704.7	523.0	637.5	688.8	783.6	957.3	965.1	979.0	1038.2
57.5°	937.5	726.4	692.8	469.7	544.7	594.1	710.5	894.1	898.1	909.9	967.1
60°	819.1	525.0	635.5	412.5	463.8	501.3	643.4	819.1	833.0	840.8	890.1
62.5°	684.8	381.0	576.3	373.0	424.4	432.3	588.1	748.1	765.8	771.7	801.4
65°	487.5	319.7	489.5	339.4	382.9	384.9	529.0	675.0	690.8	700.7	722.4
67.5°	329.6	260.6	373.0	307.9	351.3	353.3	471.7	590.1	611.8	619.7	633.6
70°	229.0	173.7	276.3	274.4	315.8	319.7	410.6	513.1	533.0	538.8	546.7
72.5°	167.7	140.1	229.0	246.7	278.3	282.3	347.4	426.3	446.1	452.0	456.0
75°	128.3	148.0	185.6	215.1	236.8	238.8	284.3	347.4	361.1	365.1	367.1
77.5°	102.6	138.1	136.2	173.7	193.4	189.4	223.0	268.4	280.3	280.3	280.3
80°	77.0	108.6	102.6	124.3	142.1	138.1	159.9	191.4	195.4	199.3	197.4
82.5°	57.3	69.1	69.1	79.0	94.7	90.8	106.6	124.3	124.3	124.3	128.3
85°	35.6	39.4	31.6	41.4	53.3	51.3	59.3	67.1	69.1	69.1	65.1
87.5°	21.7	17.7	9.9	15.8	23.7	23.7	27.6	29.6	27.6	27.6	27.6
90°	3.9	2.7	1.5	2.7	3.9	4.2	6.6	9.8	11.4	10.1	7.6
92.5°	26.3	16.1	6.0	16.1	26.3	28.9	40.6	56.3	64.0	56.1	40.2
95°	51.6	33.0	14.3	33.0	51.6	56.3	99.9	158.1	187.1	167.0	126.7
97.5°	57.7	41.2	24.8	41.2	57.7	61.8	134.6	231.6	280.1	267.3	241.9
100°	62.7	47.8	33.0	47.8	62.7	66.4	147.2	254.9	308.7	309.6	311.4
102.5°	67.6	53.8	39.8	53.8	67.6	71.1	153.0	262.1	316.7	333.0	365.4
105°	75.0	63.2	51.5	63.2	75.0	78.0	157.3	262.9	315.8	352.2	425.0
107.5°	85.4	74.4	63.4	74.4	85.4	88.1	158.1	251.3	297.9	348.7	450.2
110°	91.3	81.5	71.5	81.5	91.3	93.8	156.9	240.9	283.0	339.7	453.2

TEST NUMBER: P934087

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-W2A-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	98.3	88.9	79.5	88.9	98.3	100.7	156.9	231.9	269.3	327.4	443.5
115°	108.9	100.2	91.4	100.2	108.9	111.1	158.4	221.4	253.0	309.0	420.8
117.5°	119.0	111.2	103.3	111.2	119.0	121.0	161.3	214.9	241.8	292.3	393.2
120°	125.0	117.6	110.2	117.6	125.0	126.9	163.7	212.8	237.3	283.5	375.7
122.5°	131.9	124.4	116.8	124.4	131.9	133.8	167.1	211.6	233.9	275.4	358.5
125°	140.9	134.1	127.2	134.1	140.9	142.6	171.8	210.8	230.2	265.4	336.1
127.5°	149.4	142.4	135.6	142.4	149.4	151.1	176.4	210.2	227.0	257.3	317.9
130°	154.9	147.5	140.0	147.5	154.9	156.8	179.8	210.5	225.8	252.8	306.7
132.5°	159.6	152.2	144.7	152.2	159.6	161.5	182.6	210.8	224.8	248.9	297.2
135°	165.1	158.4	151.6	158.4	165.1	166.8	185.6	210.6	223.0	243.2	283.7
137.5°	172.0	165.3	158.7	165.3	172.0	173.7	190.0	211.8	222.7	239.8	274.0
140°	176.8	170.6	164.4	170.6	176.8	178.4	192.8	212.0	221.6	236.4	265.9
142.5°	180.4	174.6	168.9	174.6	180.4	181.8	195.0	212.7	221.6	234.6	260.6
145°	185.8	180.8	175.8	180.8	185.8	187.0	198.1	212.7	220.1	230.7	251.9
147.5°	192.4	187.5	182.7	187.5	192.4	193.6	202.5	214.2	220.1	228.5	245.1
150°	196.0	191.5	187.1	191.5	196.0	197.1	204.8	215.0	220.1	227.2	241.2
152.5°	198.5	195.1	191.8	195.1	198.5	199.3	206.3	215.5	220.1	226.1	238.1
155°	203.7	201.2	198.7	201.2	203.7	204.3	209.6	216.6	220.1	224.9	234.5
157.5°	208.6	206.2	203.8	206.2	208.6	209.2	212.8	217.7	220.1	223.8	231.3
160°	211.0	209.2	207.3	209.2	211.0	211.5	214.3	218.2	220.1	223.3	229.7
162.5°	213.4	212.0	210.7	212.0	213.4	213.8	215.9	218.7	220.1	222.8	228.2
165°	216.9	215.6	214.4	215.6	216.9	217.2	218.2	219.5	220.1	222.0	225.9
167.5°	219.0	218.4	217.8	218.4	219.0	219.2	220.0	221.1	221.6	222.9	225.4
170°	221.3	220.7	220.1	220.7	221.3	221.4	221.5	221.6	221.6	222.9	225.4
172.5°	221.6	221.4	221.3	221.4	221.6	221.6	221.6	221.6	221.6	222.6	224.6
175°	223.0	223.0	223.0	223.0	223.0	223.0	222.5	221.9	221.6	222.2	223.5
177.5°	223.0	223.0	223.0	223.0	223.0	223.0	222.6	222.1	221.9	222.4	223.4
180°	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0

TEST NUMBER: P934087

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-W2A-W-6-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2013.2	2007.3	2015.2	1993.5	2015.2	2007.3	2013.2	2027.1	2015.2	2023.1	2030.9
5°	1766.5	1756.6	1725.1	1699.4	1725.1	1756.6	1766.5	1807.9	1827.7	1863.2	1910.6
7.5°	1579.0	1571.1	1563.2	1547.4	1563.2	1571.1	1579.0	1590.8	1610.5	1642.2	1677.7
10°	1537.5	1539.5	1551.4	1549.4	1551.4	1539.5	1537.5	1533.6	1527.7	1533.6	1555.4
12.5°	1644.1	1661.9	1727.1	1723.1	1727.1	1661.9	1644.1	1565.2	1511.9	1502.1	1506.0
15°	1766.5	1772.4	1786.2	1788.2	1786.2	1772.4	1766.5	1734.9	1575.1	1506.0	1484.2
17.5°	1778.4	1780.4	1790.2	1790.2	1790.2	1780.4	1778.4	1764.5	1711.2	1618.5	1496.1
20°	1768.5	1772.4	1792.2	1796.1	1792.2	1772.4	1768.5	1750.7	1721.1	1687.5	1594.8
22.5°	1764.5	1772.4	1788.2	1786.2	1788.2	1772.4	1764.5	1736.9	1711.2	1687.5	1650.1
25°	1744.8	1744.8	1746.8	1748.8	1746.8	1744.8	1744.8	1723.1	1671.8	1665.8	1644.1
27.5°	1703.4	1707.2	1719.1	1717.2	1719.1	1707.2	1703.4	1695.5	1640.2	1634.2	1618.5
30°	1665.8	1661.9	1652.1	1644.1	1652.1	1661.9	1665.8	1654.0	1598.8	1582.9	1586.9
32.5°	1602.7	1592.8	1582.9	1577.1	1582.9	1592.8	1602.7	1598.8	1557.2	1535.5	1539.5
35°	1527.7	1529.7	1527.7	1521.8	1527.7	1529.7	1527.7	1531.6	1506.0	1486.2	1484.2
37.5°	1474.4	1478.4	1476.4	1468.5	1476.4	1478.4	1474.4	1470.4	1434.9	1429.0	1432.9
40°	1419.1	1421.1	1419.1	1413.2	1419.1	1421.1	1419.1	1411.2	1361.9	1363.8	1377.7
42.5°	1365.8	1363.8	1357.9	1354.0	1357.9	1363.8	1365.8	1354.0	1290.8	1284.9	1310.5
45°	1304.7	1306.7	1294.8	1288.8	1294.8	1306.7	1304.7	1296.8	1231.7	1215.8	1233.5
47.5°	1243.5	1243.5	1233.5	1227.7	1233.5	1243.5	1243.5	1233.5	1164.5	1148.7	1158.5
50°	1178.4	1176.4	1162.5	1160.5	1162.5	1176.4	1178.4	1172.4	1099.4	1085.5	1085.5
52.5°	1103.4	1103.4	1105.3	1109.2	1105.3	1103.4	1103.4	1105.3	1040.1	1026.4	1022.4
55°	1038.2	1040.1	1054.0	1058.0	1054.0	1040.1	1038.2	1038.2	979.0	965.1	957.3
57.5°	971.1	971.1	981.0	981.0	981.0	971.1	971.1	967.1	909.9	898.1	894.1
60°	894.1	898.1	906.0	904.0	906.0	898.1	894.1	890.1	840.8	833.0	819.1
62.5°	813.1	817.1	819.1	815.1	819.1	817.1	813.1	801.4	771.7	765.8	748.1
65°	728.3	732.3	734.3	730.3	734.3	732.3	728.3	722.4	700.7	690.8	675.0
67.5°	641.4	639.5	637.5	645.4	637.5	639.5	641.4	633.6	619.7	611.8	590.1
70°	552.7	552.7	550.7	554.6	550.7	552.7	552.7	546.7	538.8	533.0	513.1
72.5°	457.9	456.0	463.8	457.9	463.8	456.0	457.9	456.0	452.0	446.1	426.3
75°	365.1	369.1	365.1	371.1	365.1	369.1	365.1	367.1	365.1	361.1	347.4
77.5°	278.3	282.3	278.3	278.3	278.3	282.3	278.3	280.3	280.3	280.3	268.4
80°	197.4	195.4	195.4	193.4	195.4	195.4	197.4	197.4	199.3	195.4	191.4
82.5°	126.3	124.3	124.3	128.3	124.3	124.3	126.3	128.3	124.3	124.3	124.3
85°	69.1	71.0	67.1	67.1	67.1	71.0	69.1	65.1	69.1	69.1	67.1
87.5°	25.7	23.7	23.7	23.7	23.7	23.7	25.7	27.6	27.6	27.6	29.6
90°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.6	10.1	11.4	9.8
92.5°	28.4	27.3	22.7	18.2	22.7	27.3	28.4	40.2	56.1	64.0	56.3
95°	96.5	93.1	79.4	65.7	79.4	93.1	96.5	126.7	167.0	187.1	158.1
97.5°	222.8	216.3	190.2	164.1	190.2	216.3	222.8	241.9	267.3	280.1	231.6
100°	312.8	305.1	274.1	243.0	274.1	305.1	312.8	311.4	309.6	308.7	254.9
102.5°	389.8	383.2	356.6	330.0	356.6	383.2	389.8	365.4	333.0	316.7	262.1
105°	479.6	476.0	461.7	447.4	461.7	476.0	479.6	425.0	352.2	315.8	262.9
107.5°	526.3	527.2	530.6	534.1	530.6	527.2	526.3	450.2	348.7	297.9	251.3
110°	538.2	541.9	556.9	571.8	556.9	541.9	538.2	453.2	339.7	283.0	240.9

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	530.6	536.2	559.2	582.1	559.2	536.2	530.6	443.5	327.4	269.3	231.9
115°	504.7	512.6	544.3	576.1	544.3	512.6	504.7	420.8	309.0	253.0	221.4
117.5°	468.9	477.7	512.9	548.1	512.9	477.7	468.9	393.2	292.3	241.8	214.9
120°	444.9	453.5	487.6	521.8	487.6	453.5	444.9	375.7	283.5	237.3	212.8
122.5°	420.8	429.3	462.9	496.6	462.9	429.3	420.8	358.5	275.4	233.9	211.6
125°	388.9	396.7	427.7	458.8	427.7	396.7	388.9	336.1	265.4	230.2	210.8
127.5°	363.3	369.9	396.1	422.3	396.1	369.9	363.3	317.9	257.3	227.0	210.2
130°	347.1	353.2	377.4	401.6	377.4	353.2	347.1	306.7	252.8	225.8	210.5
132.5°	333.4	338.7	360.5	382.2	360.5	338.7	333.4	297.2	248.9	224.8	210.8
135°	313.9	318.6	337.2	356.0	337.2	318.6	313.9	283.7	243.2	223.0	210.6
137.5°	299.6	303.4	318.7	334.0	318.7	303.4	299.6	274.0	239.8	222.7	211.8
140°	288.0	291.6	305.9	320.2	305.9	291.6	288.0	265.9	236.4	221.6	212.0
142.5°	280.0	283.1	295.3	307.7	295.3	283.1	280.0	260.6	234.6	221.6	212.7
145°	267.8	270.1	279.5	288.8	279.5	270.1	267.8	251.9	230.7	220.1	212.7
147.5°	257.7	259.6	267.3	275.0	267.3	259.6	257.7	245.1	228.5	220.1	214.2
150°	251.8	253.4	259.7	265.9	259.7	253.4	251.8	241.2	227.2	220.1	215.0
152.5°	247.2	248.4	253.1	257.9	253.1	248.4	247.2	238.1	226.1	220.1	215.5
155°	241.6	242.4	245.5	248.7	245.5	242.4	241.6	234.5	224.9	220.1	216.6
157.5°	236.8	237.4	239.6	241.8	239.6	237.4	236.8	231.3	223.8	220.1	217.7
160°	234.5	234.8	236.1	237.3	236.1	234.8	234.5	229.7	223.3	220.1	218.2
162.5°	232.3	232.6	233.8	235.0	233.8	232.6	232.3	228.2	222.8	220.1	218.7
165°	228.8	229.1	230.4	231.7	230.4	229.1	228.8	225.9	222.0	220.1	219.5
167.5°	227.3	227.4	228.0	228.5	228.0	227.4	227.3	225.4	222.9	221.6	221.1
170°	227.3	227.3	227.3	227.3	227.3	227.3	227.3	225.4	222.9	221.6	221.6
172.5°	226.1	226.0	225.5	225.1	225.5	226.0	226.1	224.6	222.6	221.6	221.6
175°	224.5	224.5	224.5	224.5	224.5	224.5	224.5	223.5	222.2	221.6	221.9
177.5°	224.2	224.1	223.5	223.0	223.5	224.1	224.2	223.4	222.4	221.9	222.1
180°	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2060.6	2070.5	2076.4	2084.2	2104.0
5°	1981.6	2019.2	2030.9	2060.6	2096.1
7.5°	1807.9	1922.4	1954.1	2025.1	2080.3
10°	1640.2	1754.7	1809.9	1977.7	2060.6
12.5°	1555.4	1622.4	1659.9	1894.8	2032.9
15°	1502.1	1549.4	1577.1	1784.2	2001.4
17.5°	1460.5	1494.1	1513.8	1675.7	1957.9
20°	1434.9	1450.7	1468.5	1596.8	1908.6
22.5°	1417.1	1407.2	1421.1	1541.5	1841.5
25°	1405.4	1367.8	1383.6	1498.1	1762.5
27.5°	1415.2	1332.2	1338.2	1458.6	1679.7
30°	1417.1	1288.8	1290.8	1417.1	1586.9
32.5°	1403.4	1243.5	1245.4	1365.8	1482.2
35°	1369.8	1190.1	1188.2	1306.7	1340.2
37.5°	1324.4	1133.0	1133.0	1241.5	1184.2
40°	1269.1	1075.7	1081.7	1156.7	1046.1
42.5°	1202.0	1014.5	1022.4	1044.1	943.4
45°	1129.0	955.3	961.2	882.3	864.5
47.5°	1048.1	894.1	896.1	732.3	838.8
50°	951.4	831.0	823.1	627.7	836.8
52.5°	866.5	761.8	738.1	568.4	759.8
55°	783.6	688.8	637.5	523.0	704.7
57.5°	710.5	594.1	544.7	469.7	692.8
60°	643.4	501.3	463.8	412.5	635.5
62.5°	588.1	432.3	424.4	373.0	576.3
65°	529.0	384.9	382.9	339.4	489.5
67.5°	471.7	353.3	351.3	307.9	373.0
70°	410.6	319.7	315.8	274.4	276.3
72.5°	347.4	282.3	278.3	246.7	229.0
75°	284.3	238.8	236.8	215.1	185.6
77.5°	223.0	189.4	193.4	173.7	136.2
80°	159.9	138.1	142.1	124.3	102.6
82.5°	106.6	90.8	94.7	79.0	69.1
85°	59.3	51.3	53.3	41.4	31.6
87.5°	27.6	23.7	23.7	15.8	9.9
90°	6.6	4.2	3.9	2.7	1.5
92.5°	40.6	28.9	26.3	16.1	6.0
95°	99.9	56.3	51.6	33.0	14.3
97.5°	134.6	61.8	57.7	41.2	24.8
100°	147.2	66.4	62.7	47.8	33.0
102.5°	153.0	71.1	67.6	53.8	39.8
105°	157.3	78.0	75.0	63.2	51.5
107.5°	158.1	88.1	85.4	74.4	63.4
110°	156.9	93.8	91.3	81.5	71.5



TEST NUMBER: P934087

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-W2A-W-6-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	156.9	100.7	98.3	88.9	79.5
115°	158.4	111.1	108.9	100.2	91.4
117.5°	161.3	121.0	119.0	111.2	103.3
120°	163.7	126.9	125.0	117.6	110.2
122.5°	167.1	133.8	131.9	124.4	116.8
125°	171.8	142.6	140.9	134.1	127.2
127.5°	176.4	151.1	149.4	142.4	135.6
130°	179.8	156.8	154.9	147.5	140.0
132.5°	182.6	161.5	159.6	152.2	144.7
135°	185.6	166.8	165.1	158.4	151.6
137.5°	190.0	173.7	172.0	165.3	158.7
140°	192.8	178.4	176.8	170.6	164.4
142.5°	195.0	181.8	180.4	174.6	168.9
145°	198.1	187.0	185.8	180.8	175.8
147.5°	202.5	193.6	192.4	187.5	182.7
150°	204.8	197.1	196.0	191.5	187.1
152.5°	206.3	199.3	198.5	195.1	191.8
155°	209.6	204.3	203.7	201.2	198.7
157.5°	212.8	209.2	208.6	206.2	203.8
160°	214.3	211.5	211.0	209.2	207.3
162.5°	215.9	213.8	213.4	212.0	210.7
165°	218.2	217.2	216.9	215.6	214.4
167.5°	220.0	219.2	219.0	218.4	217.8
170°	221.5	221.4	221.3	220.7	220.1
172.5°	221.6	221.6	221.6	221.4	221.3
175°	222.5	223.0	223.0	223.0	223.0
177.5°	222.6	223.0	223.0	223.0	223.0
180°	223.0	223.0	223.0	223.0	223.0

TEST NUMBER: P934087

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-W2A-W-6-2700K

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	16.02	17.22	16.68	17.90	18.69	18.85	20.05	19.51	20.72	21.51
	3H	16.52	17.60	17.20	18.29	19.11	20.22	21.29	20.89	21.98	22.80
	4H	16.73	17.75	17.43	18.45	19.28	20.67	21.69	21.37	22.39	23.22
	6H	16.87	17.81	17.58	18.52	19.36	20.98	21.91	21.68	22.62	23.47
	8H	16.88	17.77	17.60	18.50	19.35	21.06	21.95	21.78	22.68	23.53
	12H	16.86	17.71	17.59	18.44	19.32	21.11	21.96	21.83	22.68	23.56
4H	2H	17.09	18.11	17.79	18.81	19.64	19.30	20.31	20.00	21.01	21.85
	3H	18.15	19.00	18.86	19.74	20.59	20.83	21.68	21.54	22.42	23.27
	4H	18.44	19.21	19.17	19.95	20.83	21.37	22.14	22.10	22.88	23.76
	6H	18.59	19.25	19.33	20.02	20.91	21.76	22.42	22.50	23.19	24.08
	8H	18.60	19.22	19.35	19.98	20.89	21.87	22.49	22.62	23.25	24.16
	12H	18.58	19.14	19.35	19.93	20.84	21.94	22.50	22.71	23.29	24.19
8H	4H	18.92	19.54	19.67	20.31	21.21	21.52	22.15	22.27	22.91	23.81
	6H	19.20	19.71	19.98	20.52	21.42	21.97	22.49	22.75	23.29	24.20
	8H	19.24	19.70	20.04	20.51	21.43	22.13	22.59	22.92	23.39	24.31
	12H	19.24	19.65	20.04	20.44	21.42	22.24	22.65	23.03	23.44	24.42
12H	4H	18.94	19.50	19.72	20.29	21.20	21.50	22.06	22.28	22.85	23.76
	6H	19.26	19.72	20.05	20.52	21.45	21.97	22.43	22.77	23.24	24.16
	8H	19.34	19.75	20.14	20.54	21.52	22.15	22.55	22.94	23.35	24.33