

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: P934089

Luminaire Tested: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934089
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-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

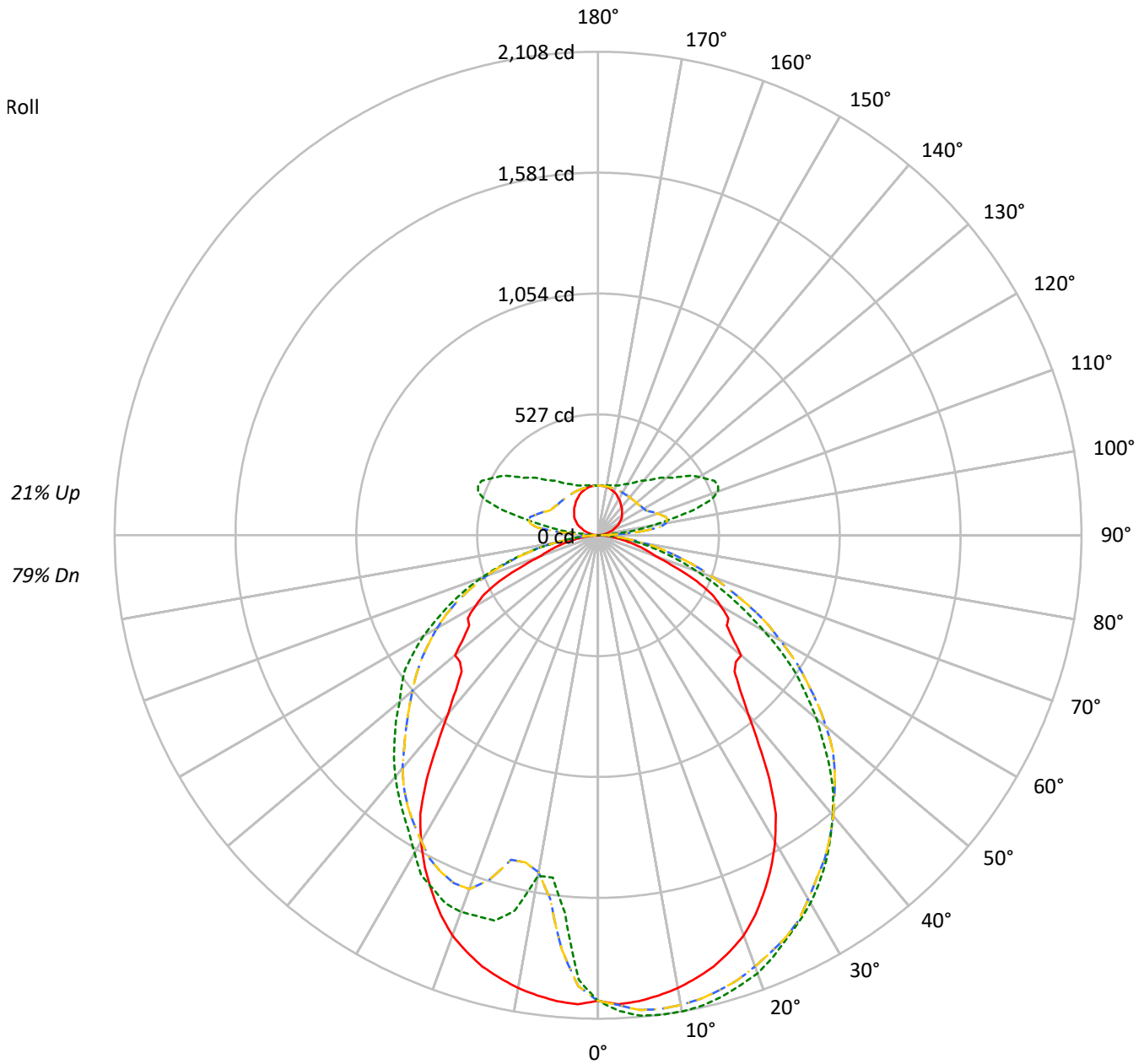
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6669.6 lumens
Efficiency: N/A
Efficacy: 114.6 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 (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12556	12556	12556	12556
5°	12645	12674	12645	9966
10°	12556	12485	12556	8926
15°	12415	12214	12415	10199
20°	12151	11894	12151	10221
25°	11614	11427	11614	10005
30°	10923	11039	10923	9528
35°	9733	10548	9733	9006
40°	8105	9970	8105	8611
45°	7238	9294	7238	8157
50°	7683	8487	7683	7701
55°	7222	7618	7222	7438
60°	7435	6470	7435	6813
65°	6731	5349	6731	5979
70°	4649	4262	4649	5011
75°	4062	3151	4062	3773
80°	3248	2084	3248	2268
85°	1830	1103	1830	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11100 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	2.7
10°-20°	520.2	7.8
20°-30°	804.1	12.1
30°-40°	960.0	14.4
40°-50°	965.6	14.5
50°-60°	840.2	12.6
60°-70°	595.7	8.9
70°-80°	315.2	4.7
80°-90°	79.3	1.2
90°-100°	105.7	1.6
100°-110°	278.0	4.2
110°-120°	288.2	4.3
120°-130°	231.2	3.5
130°-140°	181.4	2.7
140°-150°	139.2	2.1
150°-160°	100.3	1.5
160°-170°	61.4	0.9
170°-180°	20.7	0.3
0°-30°	1507.5	22.6
0°-40°	2467.5	37.0
0°-60°	4273.3	64.1
0°-90°	5263.5	78.9
90°-120°	671.9	10.1
90°-150°	1223.8	18.3
90°-180°	1406.0	21.1
0°-180°	6669.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2030	2030	2030	2030	2030	
5°	2039	2103	2039	1653	2039	193
15°	1947	2083	1947	1740	1947	548
25°	1715	1943	1715	1701	1715	787
35°	1304	1734	1304	1480	1304	807
45°	841	1429	841	1254	841	674
55°	686	1054	686	1029	686	630
65°	476	636	476	710	476	455
75°	180	302	180	361	180	190
85°	31	77	31	65	31	41
90°	2	6	2	6	2	3
95°	14	64	14	64	14	16
105°	50	435	50	435	50	53
115°	89	560	89	560	89	88
125°	124	446	124	446	124	110
135°	148	346	148	346	148	114
145°	171	281	171	281	171	107
155°	193	242	193	242	193	89
165°	209	225	209	225	209	59
175°	217	218	217	218	217	21
180°	217	217	217	217	217	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	2047.0	2047.0	2058.5	2062.3	2062.3	2056.6	2050.8	2056.6	2073.9	2079.7	2077.7
5°	2039.3	2054.7	2075.8	2079.7	2083.4	2081.5	2077.7	2081.5	2100.7	2104.6	2106.5
7.5°	2024.0	2052.7	2079.7	2085.4	2091.1	2085.4	2083.4	2087.3	2106.5	2110.4	2110.4
10°	2004.8	2045.1	2075.8	2079.7	2085.4	2079.7	2079.7	2087.3	2106.5	2110.4	2112.2
12.5°	1977.8	2033.5	2062.3	2066.2	2073.9	2071.9	2070.0	2077.7	2096.9	2100.7	2100.7
15°	1947.1	2012.4	2039.3	2043.1	2056.6	2052.7	2052.7	2060.4	2081.5	2087.3	2085.4
17.5°	1904.9	1985.5	2016.3	2022.0	2031.6	2029.7	2031.6	2039.3	2058.5	2062.3	2064.3
20°	1856.9	1949.0	1985.5	1991.3	2000.9	2000.9	2000.9	2010.5	2029.7	2037.4	2037.4
22.5°	1791.6	1910.7	1949.0	1952.9	1964.5	1964.5	1968.2	1981.7	1999.0	2000.9	2000.9
25°	1714.7	1868.4	1901.1	1912.5	1924.0	1929.9	1935.6	1943.3	1949.0	1947.1	1949.0
27.5°	1634.1	1814.6	1856.9	1864.5	1880.0	1885.7	1893.3	1895.3	1897.2	1902.9	1899.1
30°	1543.9	1739.7	1803.1	1810.8	1835.8	1839.5	1831.9	1835.8	1845.4	1849.2	1853.0
32.5°	1442.1	1628.4	1747.4	1764.7	1787.7	1776.2	1774.3	1780.1	1795.5	1795.5	1799.2
35°	1303.9	1542.0	1695.6	1711.0	1728.2	1714.7	1722.5	1724.3	1733.9	1739.7	1737.8
37.5°	1152.1	1467.1	1641.8	1653.3	1666.8	1649.5	1661.0	1666.8	1674.4	1670.7	1670.7
40°	1017.7	1349.9	1578.4	1586.2	1597.7	1584.2	1595.7	1599.5	1603.4	1599.5	1597.7
42.5°	917.8	1221.2	1511.3	1520.8	1513.2	1522.8	1526.6	1534.3	1528.5	1520.8	1520.8
45°	841.1	1186.7	1438.3	1449.8	1438.3	1453.6	1459.4	1459.4	1442.1	1438.3	1436.3
47.5°	816.1	1117.5	1365.3	1365.3	1359.5	1378.7	1388.3	1374.9	1357.6	1351.9	1351.9
50°	814.2	1040.8	1265.4	1257.8	1284.6	1307.7	1298.1	1284.6	1271.2	1250.1	1250.1
52.5°	739.3	946.7	1136.7	1165.6	1207.9	1221.2	1205.9	1192.5	1169.4	1159.8	1152.1
55°	685.6	848.7	1019.7	1077.2	1121.4	1138.7	1109.9	1096.4	1061.9	1056.1	1052.3
57.5°	674.0	706.7	912.1	985.1	1038.9	1036.9	1019.7	994.7	965.9	960.1	958.2
60°	618.3	510.8	796.9	883.3	939.0	933.2	917.8	894.9	867.9	864.2	860.3
62.5°	560.7	370.6	666.3	764.3	843.0	841.1	827.6	793.0	773.8	764.3	756.6
65°	476.3	311.0	474.3	635.6	748.9	752.7	723.9	698.9	677.8	666.3	664.4
67.5°	362.9	253.5	320.6	529.9	658.6	654.9	618.3	606.8	579.9	574.1	562.6
70°	268.8	169.0	222.8	430.1	570.4	560.7	531.9	518.5	493.5	480.0	472.4
72.5°	222.8	136.3	163.2	334.1	480.0	468.5	443.6	428.2	407.1	395.5	387.9
75°	180.5	144.0	124.8	247.7	389.8	382.2	359.1	343.7	326.5	311.0	313.0
77.5°	132.5	134.4	99.8	182.5	309.1	297.7	284.2	265.0	257.3	242.0	242.0
80°	99.8	105.6	74.9	124.8	222.8	222.8	211.2	197.8	184.3	176.6	176.6
82.5°	67.2	67.2	55.7	78.7	151.7	145.9	138.3	134.4	126.7	122.9	122.9
85°	30.7	38.4	34.6	48.0	82.6	86.4	86.4	82.6	80.6	76.8	78.7
87.5°	9.6	17.2	21.1	26.8	42.2	44.2	46.1	46.1	46.1	48.0	48.0
90°	1.5	2.6	3.8	4.1	6.4	9.5	11.0	9.8	7.4	5.5	5.5
92.5°	5.8	15.7	25.6	28.1	39.5	54.7	62.3	54.6	39.1	27.6	26.6
95°	14.0	32.1	50.2	54.7	97.2	153.8	182.1	162.5	123.3	93.9	90.6
97.5°	24.1	40.1	56.1	60.1	130.9	225.3	272.5	260.1	235.4	216.8	210.5
100°	32.1	46.5	61.0	64.6	143.2	248.0	300.3	301.2	303.0	304.4	296.8
102.5°	38.8	52.3	65.8	69.2	148.8	255.0	308.1	323.9	355.5	379.3	372.8
105°	50.1	61.5	73.0	75.9	153.0	255.8	307.3	342.6	413.5	466.6	463.1
107.5°	61.7	72.4	83.0	85.8	153.8	244.5	289.8	339.2	438.0	512.0	512.9
110°	69.6	79.3	88.9	91.3	152.6	234.4	275.3	330.5	440.9	523.6	527.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	77.3	86.5	95.6	98.0	152.6	225.6	262.0	318.5	431.5	516.2	521.7
115°	89.0	97.5	105.9	108.0	154.1	215.4	246.1	300.6	409.4	491.0	498.7
117.5°	100.5	108.1	115.8	117.7	156.9	209.1	235.3	284.4	382.6	456.2	464.7
120°	107.2	114.4	121.6	123.5	159.3	207.1	230.9	275.8	365.5	432.9	441.2
122.5°	113.7	121.0	128.3	130.1	162.6	205.9	227.5	267.9	348.7	409.4	417.6
125°	123.7	130.4	137.1	138.8	167.2	205.0	223.9	258.2	326.9	378.4	386.0
127.5°	131.9	138.6	145.4	147.0	171.6	204.5	220.8	250.3	309.3	353.5	359.9
130°	136.2	143.5	150.7	152.5	174.9	204.7	219.7	245.9	298.4	337.7	343.6
132.5°	140.8	148.1	155.2	157.1	177.6	205.0	218.7	242.2	289.1	324.3	329.6
135°	147.5	154.1	160.7	162.3	180.5	204.8	217.0	236.6	276.0	305.4	310.0
137.5°	154.4	160.9	167.3	169.0	184.9	206.1	216.7	233.3	266.6	291.5	295.2
140°	160.0	166.0	172.0	173.5	187.6	206.3	215.6	229.9	258.7	280.2	283.7
142.5°	164.3	169.9	175.5	176.8	189.7	207.0	215.6	228.2	253.5	272.4	275.4
145°	171.0	175.9	180.7	182.0	192.7	207.0	214.1	224.4	245.1	260.6	262.8
147.5°	177.7	182.5	187.2	188.4	197.0	208.4	214.1	222.3	238.5	250.7	252.5
150°	182.1	186.3	190.7	191.8	199.2	209.2	214.1	221.0	234.7	245.0	246.5
152.5°	186.6	189.8	193.1	193.9	200.7	209.7	214.1	220.0	231.7	240.5	241.7
155°	193.3	195.7	198.2	198.7	203.9	210.8	214.1	218.8	228.1	235.1	235.9
157.5°	198.3	200.6	202.9	203.5	207.1	211.8	214.1	217.7	225.0	230.4	231.0
160°	201.6	203.5	205.2	205.7	208.5	212.3	214.1	217.2	223.5	228.1	228.4
162.5°	204.9	206.3	207.7	208.0	210.1	212.8	214.1	216.8	222.0	226.0	226.3
165°	208.6	209.8	211.0	211.3	212.3	213.6	214.1	216.0	219.8	222.6	222.9
167.5°	211.9	212.5	213.1	213.3	214.1	215.1	215.6	216.9	219.3	221.1	221.2
170°	214.1	214.7	215.3	215.4	215.5	215.6	215.6	216.9	219.3	221.1	221.1
172.5°	215.3	215.4	215.6	215.6	215.6	215.6	215.6	216.6	218.5	220.0	219.9
175°	217.0	217.0	217.0	217.0	216.5	215.9	215.6	216.2	217.4	218.4	218.4
177.5°	217.0	217.0	217.0	217.0	216.6	216.1	215.9	216.4	217.3	218.1	218.0
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	2081.5	2075.8	2081.5	2077.7	2079.7	2073.9	2056.6	2050.8	2056.6	2062.3	2062.3
5°	2106.5	2102.6	2106.5	2106.5	2104.6	2100.7	2081.5	2077.7	2081.5	2083.4	2079.7
7.5°	2114.2	2108.4	2114.2	2110.4	2110.4	2106.5	2087.3	2083.4	2085.4	2091.1	2085.4
10°	2114.2	2108.4	2114.2	2112.2	2110.4	2106.5	2087.3	2079.7	2079.7	2085.4	2079.7
12.5°	2104.6	2100.7	2104.6	2100.7	2100.7	2096.9	2077.7	2070.0	2071.9	2073.9	2066.2
15°	2089.3	2083.4	2089.3	2085.4	2087.3	2081.5	2060.4	2052.7	2052.7	2056.6	2043.1
17.5°	2066.2	2058.5	2066.2	2064.3	2062.3	2058.5	2039.3	2031.6	2029.7	2031.6	2022.0
20°	2039.3	2033.5	2039.3	2037.4	2037.4	2029.7	2010.5	2000.9	2000.9	2000.9	1991.3
22.5°	1997.0	1991.3	1997.0	2000.9	2000.9	1999.0	1981.7	1968.2	1964.5	1964.5	1952.9
25°	1949.0	1943.3	1949.0	1949.0	1947.1	1949.0	1943.3	1935.6	1929.9	1924.0	1912.5
27.5°	1902.9	1899.1	1902.9	1899.1	1902.9	1897.2	1895.3	1893.3	1885.7	1880.0	1864.5
30°	1856.9	1853.0	1856.9	1853.0	1849.2	1845.4	1835.8	1831.9	1839.5	1835.8	1810.8
32.5°	1799.2	1795.5	1799.2	1799.2	1795.5	1795.5	1780.1	1774.3	1776.2	1787.7	1764.7
35°	1739.7	1733.9	1739.7	1737.8	1739.7	1733.9	1724.3	1722.5	1714.7	1728.2	1711.0
37.5°	1670.7	1664.8	1670.7	1670.7	1670.7	1674.4	1666.8	1661.0	1649.5	1666.8	1653.3
40°	1599.5	1591.9	1599.5	1597.7	1599.5	1603.4	1599.5	1595.7	1584.2	1597.7	1586.2
42.5°	1518.9	1517.0	1518.9	1520.8	1520.8	1528.5	1534.3	1526.6	1522.8	1513.2	1520.8
45°	1432.5	1428.7	1432.5	1436.3	1438.3	1442.1	1459.4	1459.4	1453.6	1438.3	1449.8
47.5°	1340.3	1330.7	1340.3	1351.9	1351.9	1357.6	1374.9	1388.3	1378.7	1359.5	1365.3
50°	1242.4	1244.3	1242.4	1250.1	1250.1	1271.2	1284.6	1298.1	1307.7	1284.6	1257.8
52.5°	1146.4	1144.5	1146.4	1152.1	1159.8	1169.4	1192.5	1205.9	1221.2	1207.9	1165.6
55°	1050.4	1054.2	1050.4	1052.3	1056.1	1061.9	1096.4	1109.9	1138.7	1121.4	1077.2
57.5°	954.4	948.6	954.4	958.2	960.1	965.9	994.7	1019.7	1036.9	1038.9	985.1
60°	843.0	835.3	843.0	860.3	864.2	867.9	894.9	917.8	933.2	939.0	883.3
62.5°	745.1	731.6	745.1	756.6	764.3	773.8	793.0	827.6	841.1	843.0	764.3
65°	641.4	635.6	641.4	664.4	666.3	677.8	698.9	723.9	752.7	748.9	635.6
67.5°	547.3	547.3	547.3	562.6	574.1	579.9	606.8	618.3	654.9	658.6	529.9
70°	460.9	458.9	460.9	472.4	480.0	493.5	518.5	531.9	560.7	570.4	430.1
72.5°	378.3	376.4	378.3	387.9	395.5	407.1	428.2	443.6	468.5	480.0	334.1
75°	305.3	301.5	305.3	313.0	311.0	326.5	343.7	359.1	382.2	389.8	247.7
77.5°	234.3	234.3	234.3	242.0	242.0	257.3	265.0	284.2	297.7	309.1	182.5
80°	174.7	172.9	174.7	176.6	176.6	184.3	197.8	211.2	222.8	222.8	124.8
82.5°	122.9	119.1	122.9	122.9	122.9	126.7	134.4	138.3	145.9	151.7	78.7
85°	76.8	76.8	76.8	78.7	76.8	80.6	82.6	86.4	86.4	82.6	48.0
87.5°	49.9	48.0	49.9	48.0	48.0	46.1	46.1	46.1	44.2	42.2	26.8
90°	5.5	5.5	5.5	5.5	5.5	7.4	9.8	11.0	9.5	6.4	4.1
92.5°	22.1	17.7	22.1	26.6	27.6	39.1	54.6	62.3	54.7	39.5	28.1
95°	77.2	64.0	77.2	90.6	93.9	123.3	162.5	182.1	153.8	97.2	54.7
97.5°	185.1	159.7	185.1	210.5	216.8	235.4	260.1	272.5	225.3	130.9	60.1
100°	266.7	236.4	266.7	296.8	304.4	303.0	301.2	300.3	248.0	143.2	64.6
102.5°	346.9	321.0	346.9	372.8	379.3	355.5	323.9	308.1	255.0	148.8	69.2
105°	449.2	435.3	449.2	463.1	466.6	413.5	342.6	307.3	255.8	153.0	75.9
107.5°	516.2	519.6	516.2	512.9	512.0	438.0	339.2	289.8	244.5	153.8	85.8
110°	541.8	556.3	541.8	527.2	523.6	440.9	330.5	275.3	234.4	152.6	91.3



TEST NUMBER: P934089

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	544.0	566.3	544.0	521.7	516.2	431.5	318.5	262.0	225.6	152.6	98.0
115°	529.6	560.5	529.6	498.7	491.0	409.4	300.6	246.1	215.4	154.1	108.0
117.5°	499.0	533.2	499.0	464.7	456.2	382.6	284.4	235.3	209.1	156.9	117.7
120°	474.4	507.7	474.4	441.2	432.9	365.5	275.8	230.9	207.1	159.3	123.5
122.5°	450.4	483.1	450.4	417.6	409.4	348.7	267.9	227.5	205.9	162.6	130.1
125°	416.1	446.3	416.1	386.0	378.4	326.9	258.2	223.9	205.0	167.2	138.8
127.5°	385.4	410.9	385.4	359.9	353.5	309.3	250.3	220.8	204.5	171.6	147.0
130°	367.2	390.7	367.2	343.6	337.7	298.4	245.9	219.7	204.7	174.9	152.5
132.5°	350.7	371.8	350.7	329.6	324.3	289.1	242.2	218.7	205.0	177.6	157.1
135°	328.1	346.3	328.1	310.0	305.4	276.0	236.6	217.0	204.8	180.5	162.3
137.5°	310.1	324.9	310.1	295.2	291.5	266.6	233.3	216.7	206.1	184.9	169.0
140°	297.6	311.5	297.6	283.7	280.2	258.7	229.9	215.6	206.3	187.6	173.5
142.5°	287.3	299.3	287.3	275.4	272.4	253.5	228.2	215.6	207.0	189.7	176.8
145°	271.9	281.0	271.9	262.8	260.6	245.1	224.4	214.1	207.0	192.7	182.0
147.5°	260.1	267.5	260.1	252.5	250.7	238.5	222.3	214.1	208.4	197.0	188.4
150°	252.6	258.7	252.6	246.5	245.0	234.7	221.0	214.1	209.2	199.2	191.8
152.5°	246.2	250.9	246.2	241.7	240.5	231.7	220.0	214.1	209.7	200.7	193.9
155°	238.9	242.0	238.9	235.9	235.1	228.1	218.8	214.1	210.8	203.9	198.7
157.5°	233.1	235.3	233.1	231.0	230.4	225.0	217.7	214.1	211.8	207.1	203.5
160°	229.7	230.9	229.7	228.4	228.1	223.5	217.2	214.1	212.3	208.5	205.7
162.5°	227.4	228.6	227.4	226.3	226.0	222.0	216.8	214.1	212.8	210.1	208.0
165°	224.1	225.4	224.1	222.9	222.6	219.8	216.0	214.1	213.6	212.3	211.3
167.5°	221.8	222.3	221.8	221.2	221.1	219.3	216.9	215.6	215.1	214.1	213.3
170°	221.1	221.1	221.1	221.1	221.1	219.3	216.9	215.6	215.6	215.5	215.4
172.5°	219.4	219.0	219.4	219.9	220.0	218.5	216.6	215.6	215.6	215.6	215.6
175°	218.4	218.4	218.4	218.4	218.4	217.4	216.2	215.6	215.9	216.5	217.0
177.5°	217.4	217.0	217.4	218.0	218.1	217.3	216.4	215.9	216.1	216.6	217.0
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



TEST NUMBER: P934089

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	2058.5	2047.0	2047.0	2027.7	2020.1	2014.4	2004.8	1975.9	1968.2	1960.6	1972.1
5°	2075.8	2054.7	2039.3	2004.8	1975.9	1964.5	1927.9	1858.8	1812.7	1778.1	1758.9
7.5°	2079.7	2052.7	2024.0	1970.2	1901.1	1870.3	1758.9	1632.2	1597.7	1566.9	1547.7
10°	2075.8	2045.1	2004.8	1924.0	1760.9	1707.1	1595.7	1513.2	1492.1	1486.3	1492.1
12.5°	2062.3	2033.5	1977.8	1843.4	1614.9	1578.4	1513.2	1465.1	1461.3	1470.9	1522.8
15°	2039.3	2012.4	1947.1	1735.9	1534.3	1507.4	1461.3	1444.0	1465.1	1532.4	1687.9
17.5°	2016.3	1985.5	1904.9	1630.2	1472.8	1453.6	1420.9	1455.5	1574.6	1664.8	1716.7
20°	1985.5	1949.0	1856.9	1553.5	1428.7	1411.3	1396.0	1551.6	1641.8	1674.4	1703.2
22.5°	1949.0	1910.7	1791.6	1499.7	1382.6	1369.1	1378.7	1605.3	1641.8	1664.8	1689.8
25°	1901.1	1868.4	1714.7	1457.5	1346.1	1330.7	1367.3	1599.5	1620.7	1626.5	1676.4
27.5°	1856.9	1814.6	1634.1	1419.1	1301.9	1296.1	1376.9	1574.6	1589.9	1595.7	1649.5
30°	1803.1	1739.7	1543.9	1378.7	1255.8	1253.9	1378.7	1543.9	1540.0	1555.4	1609.1
32.5°	1747.4	1628.4	1442.1	1328.8	1211.6	1209.8	1365.3	1497.8	1493.9	1515.0	1555.4
35°	1695.6	1542.0	1303.9	1271.2	1156.0	1157.9	1332.7	1444.0	1445.9	1465.1	1490.1
37.5°	1641.8	1467.1	1152.1	1207.9	1102.2	1102.2	1288.5	1394.1	1390.2	1396.0	1430.5
40°	1578.4	1349.9	1017.7	1125.3	1052.3	1046.5	1234.7	1340.3	1326.9	1325.0	1373.0
42.5°	1511.3	1221.2	917.8	1015.8	994.7	987.0	1169.4	1275.0	1250.1	1255.8	1317.3
45°	1438.3	1186.7	841.1	858.3	935.2	929.4	1098.4	1200.1	1182.9	1198.3	1261.6
47.5°	1365.3	1117.5	816.1	712.4	871.8	869.9	1019.7	1127.1	1117.5	1133.0	1200.1
50°	1265.4	1040.8	814.2	610.7	800.8	808.4	925.6	1056.1	1056.1	1069.6	1140.6
52.5°	1136.7	946.7	739.3	553.0	718.1	741.2	843.0	994.7	998.6	1011.9	1075.3
55°	1019.7	848.7	685.6	508.8	620.3	670.2	762.3	931.3	939.0	952.4	1010.1
57.5°	912.1	706.7	674.0	457.0	529.9	578.0	691.3	869.9	873.7	885.3	940.9
60°	796.9	510.8	618.3	401.4	451.3	487.7	626.0	796.9	810.4	818.0	866.0
62.5°	666.3	370.6	560.7	362.9	412.9	420.5	572.2	727.8	745.1	750.8	779.7
65°	474.3	311.0	476.3	330.2	372.5	374.4	514.6	656.7	672.1	681.7	702.8
67.5°	320.6	253.5	362.9	299.5	341.8	343.7	458.9	574.1	595.3	602.9	616.4
70°	222.8	169.0	268.8	267.0	307.3	311.0	399.4	499.2	518.5	524.2	531.9
72.5°	163.2	136.3	222.8	240.0	270.7	274.6	338.0	414.7	434.0	439.7	443.6
75°	124.8	144.0	180.5	209.3	230.4	232.4	276.6	338.0	351.4	355.2	357.2
77.5°	99.8	134.4	132.5	169.0	188.2	184.3	217.0	261.1	272.7	272.7	272.7
80°	74.9	105.6	99.8	120.9	138.3	134.4	155.5	186.2	190.1	193.9	192.1
82.5°	55.7	67.2	67.2	76.8	92.2	88.4	103.7	120.9	120.9	120.9	124.8
85°	34.6	38.4	30.7	40.3	51.8	49.9	57.7	65.3	67.2	67.2	63.4
87.5°	21.1	17.2	9.6	15.4	23.1	23.1	26.8	28.8	26.8	26.8	26.8
90°	3.8	2.6	1.5	2.6	3.8	4.1	6.4	9.5	11.0	9.8	7.4
92.5°	25.6	15.7	5.8	15.7	25.6	28.1	39.5	54.7	62.3	54.6	39.1
95°	50.2	32.1	14.0	32.1	50.2	54.7	97.2	153.8	182.1	162.5	123.3
97.5°	56.1	40.1	24.1	40.1	56.1	60.1	130.9	225.3	272.5	260.1	235.4
100°	61.0	46.5	32.1	46.5	61.0	64.6	143.2	248.0	300.3	301.2	303.0
102.5°	65.8	52.3	38.8	52.3	65.8	69.2	148.8	255.0	308.1	323.9	355.5
105°	73.0	61.5	50.1	61.5	73.0	75.9	153.0	255.8	307.3	342.6	413.5
107.5°	83.0	72.4	61.7	72.4	83.0	85.8	153.8	244.5	289.8	339.2	438.0
110°	88.9	79.3	69.6	79.3	88.9	91.3	152.6	234.4	275.3	330.5	440.9



TEST NUMBER: P934089

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	95.6	86.5	77.3	86.5	95.6	98.0	152.6	225.6	262.0	318.5	431.5
115°	105.9	97.5	89.0	97.5	105.9	108.0	154.1	215.4	246.1	300.6	409.4
117.5°	115.8	108.1	100.5	108.1	115.8	117.7	156.9	209.1	235.3	284.4	382.6
120°	121.6	114.4	107.2	114.4	121.6	123.5	159.3	207.1	230.9	275.8	365.5
122.5°	128.3	121.0	113.7	121.0	128.3	130.1	162.6	205.9	227.5	267.9	348.7
125°	137.1	130.4	123.7	130.4	137.1	138.8	167.2	205.0	223.9	258.2	326.9
127.5°	145.4	138.6	131.9	138.6	145.4	147.0	171.6	204.5	220.8	250.3	309.3
130°	150.7	143.5	136.2	143.5	150.7	152.5	174.9	204.7	219.7	245.9	298.4
132.5°	155.2	148.1	140.8	148.1	155.2	157.1	177.6	205.0	218.7	242.2	289.1
135°	160.7	154.1	147.5	154.1	160.7	162.3	180.5	204.8	217.0	236.6	276.0
137.5°	167.3	160.9	154.4	160.9	167.3	169.0	184.9	206.1	216.7	233.3	266.6
140°	172.0	166.0	160.0	166.0	172.0	173.5	187.6	206.3	215.6	229.9	258.7
142.5°	175.5	169.9	164.3	169.9	175.5	176.8	189.7	207.0	215.6	228.2	253.5
145°	180.7	175.9	171.0	175.9	180.7	182.0	192.7	207.0	214.1	224.4	245.1
147.5°	187.2	182.5	177.7	182.5	187.2	188.4	197.0	208.4	214.1	222.3	238.5
150°	190.7	186.3	182.1	186.3	190.7	191.8	199.2	209.2	214.1	221.0	234.7
152.5°	193.1	189.8	186.6	189.8	193.1	193.9	200.7	209.7	214.1	220.0	231.7
155°	198.2	195.7	193.3	195.7	198.2	198.7	203.9	210.8	214.1	218.8	228.1
157.5°	202.9	200.6	198.3	200.6	202.9	203.5	207.1	211.8	214.1	217.7	225.0
160°	205.2	203.5	201.6	203.5	205.2	205.7	208.5	212.3	214.1	217.2	223.5
162.5°	207.7	206.3	204.9	206.3	207.7	208.0	210.1	212.8	214.1	216.8	222.0
165°	211.0	209.8	208.6	209.8	211.0	211.3	212.3	213.6	214.1	216.0	219.8
167.5°	213.1	212.5	211.9	212.5	213.1	213.3	214.1	215.1	215.6	216.9	219.3
170°	215.3	214.7	214.1	214.7	215.3	215.4	215.5	215.6	215.6	216.9	219.3
172.5°	215.6	215.4	215.3	215.4	215.6	215.6	215.6	215.6	215.6	216.6	218.5
175°	217.0	217.0	217.0	217.0	217.0	217.0	216.5	215.9	215.6	216.2	217.4
177.5°	217.0	217.0	217.0	217.0	217.0	217.0	216.6	216.1	215.9	216.4	217.3
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



TEST NUMBER: P934089

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	1958.6	1952.9	1960.6	1939.5	1960.6	1952.9	1958.6	1972.1	1960.6	1968.2	1975.9
5°	1718.6	1709.0	1678.3	1653.3	1678.3	1709.0	1718.6	1758.9	1778.1	1812.7	1858.8
7.5°	1536.2	1528.5	1520.8	1505.4	1520.8	1528.5	1536.2	1547.7	1566.9	1597.7	1632.2
10°	1495.8	1497.8	1509.3	1507.4	1509.3	1497.8	1495.8	1492.1	1486.3	1492.1	1513.2
12.5°	1599.5	1616.9	1680.2	1676.4	1680.2	1616.9	1599.5	1522.8	1470.9	1461.3	1465.1
15°	1718.6	1724.3	1737.8	1739.7	1737.8	1724.3	1718.6	1687.9	1532.4	1465.1	1444.0
17.5°	1730.1	1732.1	1741.7	1741.7	1741.7	1732.1	1730.1	1716.7	1664.8	1574.6	1455.5
20°	1720.6	1724.3	1743.6	1747.4	1743.6	1724.3	1720.6	1703.2	1674.4	1641.8	1551.6
22.5°	1716.7	1724.3	1739.7	1737.8	1739.7	1724.3	1716.7	1689.8	1664.8	1641.8	1605.3
25°	1697.5	1697.5	1699.4	1701.4	1699.4	1697.5	1697.5	1676.4	1626.5	1620.7	1599.5
27.5°	1657.2	1661.0	1672.5	1670.7	1672.5	1661.0	1657.2	1649.5	1595.7	1589.9	1574.6
30°	1620.7	1616.9	1607.3	1599.5	1607.3	1616.9	1620.7	1609.1	1555.4	1540.0	1543.9
32.5°	1559.2	1549.6	1540.0	1534.3	1540.0	1549.6	1559.2	1555.4	1515.0	1493.9	1497.8
35°	1486.3	1488.2	1486.3	1480.5	1486.3	1488.2	1486.3	1490.1	1465.1	1445.9	1444.0
37.5°	1434.4	1438.3	1436.3	1428.7	1436.3	1438.3	1434.4	1430.5	1396.0	1390.2	1394.1
40°	1380.6	1382.6	1380.6	1374.9	1380.6	1382.6	1380.6	1373.0	1325.0	1326.9	1340.3
42.5°	1328.8	1326.9	1321.1	1317.3	1321.1	1326.9	1328.8	1317.3	1255.8	1250.1	1275.0
45°	1269.3	1271.2	1259.7	1253.9	1259.7	1271.2	1269.3	1261.6	1198.3	1182.9	1200.1
47.5°	1209.8	1209.8	1200.1	1194.4	1200.1	1209.8	1209.8	1200.1	1133.0	1117.5	1127.1
50°	1146.4	1144.5	1131.0	1129.1	1131.0	1144.5	1146.4	1140.6	1069.6	1056.1	1056.1
52.5°	1073.5	1073.5	1075.3	1079.2	1075.3	1073.5	1073.5	1075.3	1011.9	998.6	994.7
55°	1010.1	1011.9	1025.4	1029.3	1025.4	1011.9	1010.1	1010.1	952.4	939.0	931.3
57.5°	944.8	944.8	954.4	954.4	954.4	944.8	944.8	940.9	885.3	873.7	869.9
60°	869.9	873.7	881.4	879.5	881.4	873.7	869.9	866.0	818.0	810.4	796.9
62.5°	791.1	795.0	796.9	793.0	796.9	795.0	791.1	779.7	750.8	745.1	727.8
65°	708.5	712.4	714.3	710.5	714.3	712.4	708.5	702.8	681.7	672.1	656.7
67.5°	624.0	622.2	620.3	627.9	620.3	622.2	624.0	616.4	602.9	595.3	574.1
70°	537.7	537.7	535.8	539.5	535.8	537.7	537.7	531.9	524.2	518.5	499.2
72.5°	445.4	443.6	451.3	445.4	451.3	443.6	445.4	443.6	439.7	434.0	414.7
75°	355.2	359.1	355.2	361.0	355.2	359.1	355.2	357.2	355.2	351.4	338.0
77.5°	270.7	274.6	270.7	270.7	270.7	274.6	270.7	272.7	272.7	272.7	261.1
80°	192.1	190.1	190.1	188.2	190.1	190.1	192.1	192.1	193.9	190.1	186.2
82.5°	122.9	120.9	120.9	124.8	120.9	120.9	122.9	124.8	120.9	120.9	120.9
85°	67.2	69.1	65.3	65.3	65.3	69.1	67.2	63.4	67.2	67.2	65.3
87.5°	25.0	23.1	23.1	23.1	23.1	23.1	25.0	26.8	26.8	26.8	28.8
90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	9.8	11.0	9.5
92.5°	27.6	26.6	22.1	17.7	22.1	26.6	27.6	39.1	54.6	62.3	54.7
95°	93.9	90.6	77.2	64.0	77.2	90.6	93.9	123.3	162.5	182.1	153.8
97.5°	216.8	210.5	185.1	159.7	185.1	210.5	216.8	235.4	260.1	272.5	225.3
100°	304.4	296.8	266.7	236.4	266.7	296.8	304.4	303.0	301.2	300.3	248.0
102.5°	379.3	372.8	346.9	321.0	346.9	372.8	379.3	355.5	323.9	308.1	255.0
105°	466.6	463.1	449.2	435.3	449.2	463.1	466.6	413.5	342.6	307.3	255.8
107.5°	512.0	512.9	516.2	519.6	516.2	512.9	512.0	438.0	339.2	289.8	244.5
110°	523.6	527.2	541.8	556.3	541.8	527.2	523.6	440.9	330.5	275.3	234.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	516.2	521.7	544.0	566.3	544.0	521.7	516.2	431.5	318.5	262.0	225.6
115°	491.0	498.7	529.6	560.5	529.6	498.7	491.0	409.4	300.6	246.1	215.4
117.5°	456.2	464.7	499.0	533.2	499.0	464.7	456.2	382.6	284.4	235.3	209.1
120°	432.9	441.2	474.4	507.7	474.4	441.2	432.9	365.5	275.8	230.9	207.1
122.5°	409.4	417.6	450.4	483.1	450.4	417.6	409.4	348.7	267.9	227.5	205.9
125°	378.4	386.0	416.1	446.3	416.1	386.0	378.4	326.9	258.2	223.9	205.0
127.5°	353.5	359.9	385.4	410.9	385.4	359.9	353.5	309.3	250.3	220.8	204.5
130°	337.7	343.6	367.2	390.7	367.2	343.6	337.7	298.4	245.9	219.7	204.7
132.5°	324.3	329.6	350.7	371.8	350.7	329.6	324.3	289.1	242.2	218.7	205.0
135°	305.4	310.0	328.1	346.3	328.1	310.0	305.4	276.0	236.6	217.0	204.8
137.5°	291.5	295.2	310.1	324.9	310.1	295.2	291.5	266.6	233.3	216.7	206.1
140°	280.2	283.7	297.6	311.5	297.6	283.7	280.2	258.7	229.9	215.6	206.3
142.5°	272.4	275.4	287.3	299.3	287.3	275.4	272.4	253.5	228.2	215.6	207.0
145°	260.6	262.8	271.9	281.0	271.9	262.8	260.6	245.1	224.4	214.1	207.0
147.5°	250.7	252.5	260.1	267.5	260.1	252.5	250.7	238.5	222.3	214.1	208.4
150°	245.0	246.5	252.6	258.7	252.6	246.5	245.0	234.7	221.0	214.1	209.2
152.5°	240.5	241.7	246.2	250.9	246.2	241.7	240.5	231.7	220.0	214.1	209.7
155°	235.1	235.9	238.9	242.0	238.9	235.9	235.1	228.1	218.8	214.1	210.8
157.5°	230.4	231.0	233.1	235.3	233.1	231.0	230.4	225.0	217.7	214.1	211.8
160°	228.1	228.4	229.7	230.9	229.7	228.4	228.1	223.5	217.2	214.1	212.3
162.5°	226.0	226.3	227.4	228.6	227.4	226.3	226.0	222.0	216.8	214.1	212.8
165°	222.6	222.9	224.1	225.4	224.1	222.9	222.6	219.8	216.0	214.1	213.6
167.5°	221.1	221.2	221.8	222.3	221.8	221.2	221.1	219.3	216.9	215.6	215.1
170°	221.1	221.1	221.1	221.1	221.1	221.1	221.1	219.3	216.9	215.6	215.6
172.5°	220.0	219.9	219.4	219.0	219.4	219.9	220.0	218.5	216.6	215.6	215.6
175°	218.4	218.4	218.4	218.4	218.4	218.4	218.4	217.4	216.2	215.6	215.9
177.5°	218.1	218.0	217.4	217.0	217.4	218.0	218.1	217.3	216.4	215.9	216.1
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	2004.8	2014.4	2020.1	2027.7	2047.0
5°	1927.9	1964.5	1975.9	2004.8	2039.3
7.5°	1758.9	1870.3	1901.1	1970.2	2024.0
10°	1595.7	1707.1	1760.9	1924.0	2004.8
12.5°	1513.2	1578.4	1614.9	1843.4	1977.8
15°	1461.3	1507.4	1534.3	1735.9	1947.1
17.5°	1420.9	1453.6	1472.8	1630.2	1904.9
20°	1396.0	1411.3	1428.7	1553.5	1856.9
22.5°	1378.7	1369.1	1382.6	1499.7	1791.6
25°	1367.3	1330.7	1346.1	1457.5	1714.7
27.5°	1376.9	1296.1	1301.9	1419.1	1634.1
30°	1378.7	1253.9	1255.8	1378.7	1543.9
32.5°	1365.3	1209.8	1211.6	1328.8	1442.1
35°	1332.7	1157.9	1156.0	1271.2	1303.9
37.5°	1288.5	1102.2	1102.2	1207.9	1152.1
40°	1234.7	1046.5	1052.3	1125.3	1017.7
42.5°	1169.4	987.0	994.7	1015.8	917.8
45°	1098.4	929.4	935.2	858.3	841.1
47.5°	1019.7	869.9	871.8	712.4	816.1
50°	925.6	808.4	800.8	610.7	814.2
52.5°	843.0	741.2	718.1	553.0	739.3
55°	762.3	670.2	620.3	508.8	685.6
57.5°	691.3	578.0	529.9	457.0	674.0
60°	626.0	487.7	451.3	401.4	618.3
62.5°	572.2	420.5	412.9	362.9	560.7
65°	514.6	374.4	372.5	330.2	476.3
67.5°	458.9	343.7	341.8	299.5	362.9
70°	399.4	311.0	307.3	267.0	268.8
72.5°	338.0	274.6	270.7	240.0	222.8
75°	276.6	232.4	230.4	209.3	180.5
77.5°	217.0	184.3	188.2	169.0	132.5
80°	155.5	134.4	138.3	120.9	99.8
82.5°	103.7	88.4	92.2	76.8	67.2
85°	57.7	49.9	51.8	40.3	30.7
87.5°	26.8	23.1	23.1	15.4	9.6
90°	6.4	4.1	3.8	2.6	1.5
92.5°	39.5	28.1	25.6	15.7	5.8
95°	97.2	54.7	50.2	32.1	14.0
97.5°	130.9	60.1	56.1	40.1	24.1
100°	143.2	64.6	61.0	46.5	32.1
102.5°	148.8	69.2	65.8	52.3	38.8
105°	153.0	75.9	73.0	61.5	50.1
107.5°	153.8	85.8	83.0	72.4	61.7
110°	152.6	91.3	88.9	79.3	69.6



TEST NUMBER: P934089

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	152.6	98.0	95.6	86.5	77.3
115°	154.1	108.0	105.9	97.5	89.0
117.5°	156.9	117.7	115.8	108.1	100.5
120°	159.3	123.5	121.6	114.4	107.2
122.5°	162.6	130.1	128.3	121.0	113.7
125°	167.2	138.8	137.1	130.4	123.7
127.5°	171.6	147.0	145.4	138.6	131.9
130°	174.9	152.5	150.7	143.5	136.2
132.5°	177.6	157.1	155.2	148.1	140.8
135°	180.5	162.3	160.7	154.1	147.5
137.5°	184.9	169.0	167.3	160.9	154.4
140°	187.6	173.5	172.0	166.0	160.0
142.5°	189.7	176.8	175.5	169.9	164.3
145°	192.7	182.0	180.7	175.9	171.0
147.5°	197.0	188.4	187.2	182.5	177.7
150°	199.2	191.8	190.7	186.3	182.1
152.5°	200.7	193.9	193.1	189.8	186.6
155°	203.9	198.7	198.2	195.7	193.3
157.5°	207.1	203.5	202.9	200.6	198.3
160°	208.5	205.7	205.2	203.5	201.6
162.5°	210.1	208.0	207.7	206.3	204.9
165°	212.3	211.3	211.0	209.8	208.6
167.5°	214.1	213.3	213.1	212.5	211.9
170°	215.5	215.4	215.3	214.7	214.1
172.5°	215.6	215.6	215.6	215.4	215.3
175°	216.5	217.0	217.0	217.0	217.0
177.5°	216.6	217.0	217.0	217.0	217.0
180°	217.0	217.0	217.0	217.0	217.0



TEST NUMBER: P934089
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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	15.93	17.13	16.59	17.80	18.59	18.75	19.95	19.41	20.63	21.42
	3H	16.43	17.51	17.11	18.20	19.02	20.12	21.20	20.80	21.89	22.71
	4H	16.64	17.65	17.33	18.35	19.19	20.58	21.59	21.27	22.29	23.13
	6H	16.77	17.71	17.48	18.42	19.27	20.88	21.82	21.59	22.53	23.38
	8H	16.78	17.68	17.50	18.41	19.26	20.96	21.86	21.68	22.59	23.44
	12H	16.77	17.62	17.49	18.34	19.22	21.01	21.87	21.74	22.59	23.47
4H	2H	17.00	18.01	17.70	18.71	19.55	19.20	20.22	19.90	20.92	21.75
	3H	18.06	18.90	18.77	19.64	20.49	20.74	21.58	21.45	22.32	23.17
	4H	18.35	19.12	19.07	19.85	20.74	21.28	22.05	22.00	22.78	23.67
	6H	18.49	19.16	19.24	19.92	20.81	21.66	22.33	22.41	23.09	23.98
	8H	18.50	19.13	19.26	19.89	20.79	21.77	22.40	22.52	23.16	24.06
	12H	18.49	19.05	19.26	19.83	20.74	21.85	22.41	22.62	23.19	24.10
8H	4H	18.83	19.45	19.58	20.21	21.11	21.43	22.05	22.18	22.81	23.72
	6H	19.10	19.62	19.88	20.42	21.33	21.88	22.39	22.66	23.20	24.10
	8H	19.15	19.61	19.94	20.41	21.33	22.03	22.49	22.82	23.29	24.22
	12H	19.15	19.55	19.94	20.35	21.33	22.14	22.55	22.94	23.34	24.32
12H	4H	18.85	19.41	19.62	20.19	21.10	21.41	21.97	22.18	22.75	23.66
	6H	19.16	19.63	19.96	20.43	21.35	21.88	22.34	22.67	23.14	24.06
	8H	19.25	19.65	20.04	20.45	21.43	22.05	22.46	22.85	23.25	24.23