

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: P934442

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934442
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

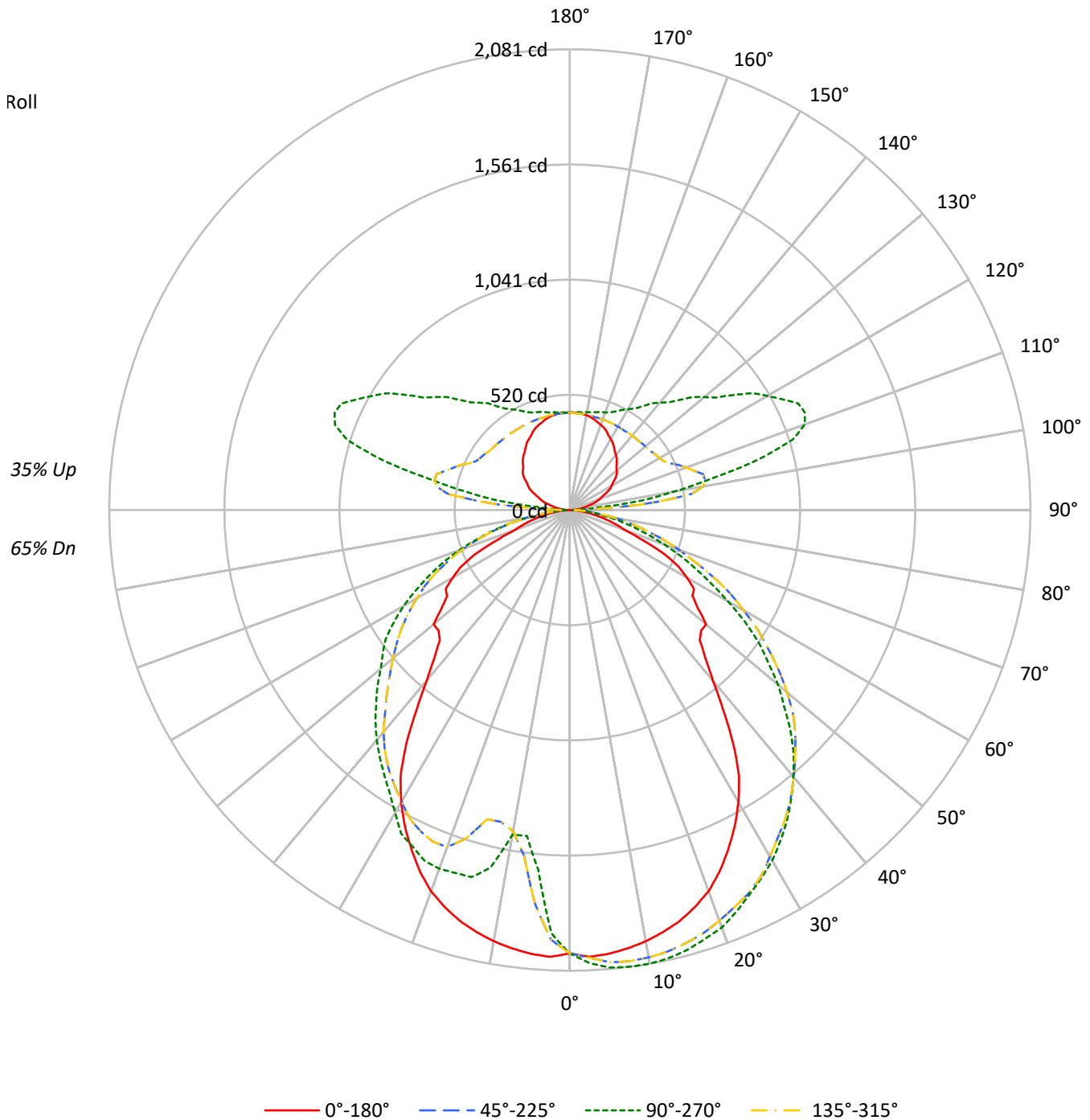
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8050.2 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.8
Input Voltage (V): NR
Input Current (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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12390	12390	12390	12390
5°	12478	12507	12478	9835
10°	12390	12320	12390	8808
15°	12251	12053	12251	10064
20°	11990	11737	11990	10086
25°	11461	11276	11461	9872
30°	10779	10893	10779	9403
35°	9605	10408	9605	8887
40°	7998	9838	7998	8497
45°	7142	9171	7142	8049
50°	7581	8375	7581	7600
55°	7127	7517	7127	7340
60°	7337	6384	7337	6722
65°	6642	5278	6642	5900
70°	4587	4206	4587	4945
75°	4008	3109	4008	3724
80°	3206	2056	3206	2238
85°	1806	1089	1806	925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10953 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	2.2
10°-20°	513.3	6.4
20°-30°	793.5	9.9
30°-40°	947.3	11.8
40°-50°	952.8	11.8
50°-60°	829.1	10.3
60°-70°	587.8	7.3
70°-80°	311.0	3.9
80°-90°	79.1	1.0
90°-100°	214.7	2.7
100°-110°	564.5	7.0
110°-120°	585.3	7.3
120°-130°	469.5	5.8
130°-140°	368.4	4.6
140°-150°	282.7	3.5
150°-160°	203.6	2.5
160°-170°	124.6	1.5
170°-180°	42.1	0.5
0°-30°	1487.6	18.5
0°-40°	2434.9	30.2
0°-60°	4216.8	52.4
0°-90°	5194.8	64.5
90°-120°	1364.5	17.0
90°-150°	2485.1	30.9
90°-180°	2855.0	35.5
0°-180°	8050.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2003	2003	2003	2003	2003	
5°	2012	2075	2012	1632	2012	191
15°	1921	2056	1921	1717	1921	541
25°	1692	1918	1692	1679	1692	777
35°	1287	1711	1287	1461	1287	796
45°	830	1410	830	1237	830	665
55°	676	1040	676	1016	676	622
65°	470	627	470	701	470	449
75°	178	298	178	356	178	187
85°	30	76	30	64	30	41
90°	3	11	3	11	3	4
95°	28	130	28	130	28	32
105°	102	884	102	884	102	108
115°	181	1138	181	1138	181	178
125°	251	906	251	906	251	223
135°	300	703	300	703	300	232
145°	347	571	347	571	347	218
155°	393	491	393	491	393	180
165°	424	458	424	458	424	120
175°	440	443	440	443	440	42
180°	440	440	440	440	440	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	2020.0	2020.0	2031.3	2035.1	2035.1	2029.4	2023.7	2029.4	2046.4	2052.2	2050.3
5°	2012.3	2027.5	2048.4	2052.2	2055.9	2054.0	2050.3	2054.0	2072.9	2076.8	2078.7
7.5°	1997.2	2025.6	2052.2	2057.8	2063.5	2057.8	2055.9	2059.7	2078.7	2082.5	2082.5
10°	1978.3	2018.0	2048.4	2052.2	2057.8	2052.2	2052.2	2059.7	2078.7	2082.5	2084.3
12.5°	1951.7	2006.7	2035.1	2038.9	2046.4	2044.5	2042.6	2050.3	2069.2	2072.9	2072.9
15°	1921.4	1985.8	2012.3	2016.1	2029.4	2025.6	2025.6	2033.2	2054.0	2059.7	2057.8
17.5°	1879.7	1959.2	1989.6	1995.3	2004.8	2002.8	2004.8	2012.3	2031.3	2035.1	2037.0
20°	1832.4	1923.3	1959.2	1965.0	1974.4	1974.4	1974.4	1983.9	2002.8	2010.5	2010.5
22.5°	1767.9	1885.4	1923.3	1927.1	1938.5	1938.5	1942.2	1955.5	1972.5	1974.4	1974.4
25°	1692.1	1843.7	1876.0	1887.2	1898.6	1904.4	1910.0	1917.6	1923.3	1921.4	1923.3
27.5°	1612.5	1790.7	1832.4	1839.9	1855.1	1860.8	1868.3	1870.2	1872.1	1877.8	1874.0
30°	1523.5	1716.7	1779.3	1786.8	1811.5	1815.2	1807.7	1811.5	1821.0	1824.8	1828.5
32.5°	1423.0	1606.9	1724.3	1741.4	1764.1	1752.7	1750.9	1756.5	1771.7	1771.7	1775.5
35°	1286.7	1521.6	1673.1	1688.3	1705.4	1692.1	1699.7	1701.5	1711.0	1716.7	1714.8
37.5°	1136.9	1447.7	1620.1	1631.5	1644.7	1627.7	1639.0	1644.7	1652.3	1648.6	1648.6
40°	1004.3	1332.1	1557.5	1565.2	1576.6	1563.3	1574.7	1578.4	1582.2	1578.4	1576.6
42.5°	905.7	1205.1	1491.3	1500.7	1493.2	1502.7	1506.4	1514.0	1508.3	1500.7	1500.7
45°	830.0	1171.0	1419.3	1430.7	1419.3	1434.4	1440.1	1440.1	1423.0	1419.3	1417.4
47.5°	805.3	1102.8	1347.3	1347.3	1341.5	1360.5	1369.9	1356.7	1339.6	1334.0	1334.0
50°	803.4	1027.0	1248.7	1241.1	1267.6	1290.4	1280.9	1267.6	1254.4	1233.6	1233.6
52.5°	729.5	934.2	1121.7	1150.2	1191.9	1205.1	1190.0	1176.7	1153.9	1144.5	1136.9
55°	676.5	837.5	1006.2	1063.0	1106.6	1123.6	1095.2	1081.9	1047.9	1042.2	1038.4
57.5°	665.1	697.4	900.1	972.1	1025.1	1023.2	1006.2	981.5	953.1	947.4	945.6
60°	610.1	504.0	786.4	871.7	926.6	920.9	905.7	883.0	856.5	852.7	848.9
62.5°	553.3	365.7	657.5	754.1	831.9	830.0	816.7	782.5	763.6	754.1	746.6
65°	470.0	306.9	468.1	627.2	739.0	742.8	714.4	689.7	668.9	657.5	655.7
67.5°	358.1	250.1	316.4	522.9	649.9	646.2	610.1	598.8	572.3	566.5	555.2
70°	265.2	166.8	219.8	424.5	562.8	553.3	524.9	511.7	487.0	473.7	466.1
72.5°	219.8	134.5	161.0	329.7	473.7	462.3	437.7	422.5	401.7	390.3	382.8
75°	178.1	142.1	123.2	244.4	384.7	377.1	354.4	339.2	322.1	306.9	308.9
77.5°	130.7	132.6	98.5	180.1	305.0	293.7	280.5	261.5	253.9	238.8	238.8
80°	98.5	104.2	73.9	123.2	219.8	219.8	208.5	195.2	181.9	174.3	174.3
82.5°	66.4	66.4	55.0	77.6	149.7	144.0	136.4	132.6	125.1	121.2	121.2
85°	30.3	37.9	34.1	47.3	81.5	85.3	85.3	81.5	79.6	75.8	77.6
87.5°	9.5	17.0	20.8	26.5	41.7	43.6	45.5	45.5	45.5	47.3	47.3
90°	3.0	5.4	7.7	8.3	13.0	19.3	22.5	20.0	14.9	11.2	11.2
92.5°	11.9	31.9	52.0	57.1	80.2	111.1	126.5	110.8	79.6	56.1	53.9
95°	28.4	65.1	101.9	111.1	197.4	312.4	369.9	330.1	250.4	190.7	183.9
97.5°	49.1	81.6	114.0	122.1	265.9	457.6	553.4	528.3	477.9	440.1	427.2
100°	65.0	94.5	123.9	131.3	290.8	503.5	609.9	611.7	615.4	618.2	602.9
102.5°	78.6	106.1	133.6	140.5	302.3	518.0	625.8	657.9	722.0	770.1	757.0
105°	101.7	125.0	148.2	154.0	310.7	519.6	624.0	695.9	839.6	947.5	940.4
107.5°	125.4	147.1	168.7	174.1	312.3	496.5	588.5	688.7	889.3	1039.7	1041.4
110°	141.3	160.8	180.4	185.3	309.9	476.0	559.0	671.1	895.3	1063.4	1070.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.0	175.7	194.3	199.0	310.0	458.1	532.1	646.9	876.3	1048.3	1059.6
115°	180.6	197.8	215.0	219.4	312.9	437.6	499.9	610.4	831.4	997.1	1012.8
117.5°	204.0	219.6	235.2	239.1	318.7	424.7	477.7	577.4	776.9	926.5	943.9
120°	217.5	232.3	247.0	250.7	323.4	420.3	468.8	559.9	742.2	878.8	895.8
122.5°	230.9	245.7	260.6	264.3	330.2	418.0	462.0	544.1	708.3	831.3	848.0
125°	251.3	264.8	278.3	281.7	339.4	416.2	454.7	524.4	663.8	768.3	783.6
127.5°	267.8	281.5	295.2	298.6	348.5	415.2	448.5	508.3	627.9	717.7	730.6
130°	276.7	291.4	306.2	309.8	355.2	415.8	446.1	499.3	605.9	685.9	697.8
132.5°	285.9	300.6	315.4	319.0	360.7	416.2	444.1	491.8	587.1	658.6	669.3
135°	299.5	312.9	326.3	329.6	366.6	415.8	440.5	480.5	560.3	620.2	629.5
137.5°	313.3	326.6	339.8	343.2	375.4	418.3	439.8	473.6	541.1	591.8	599.3
140°	324.9	337.2	349.3	352.4	380.9	418.8	437.8	467.0	525.3	569.0	576.1
142.5°	333.7	345.0	356.3	359.1	385.3	420.3	437.8	463.5	514.6	553.1	559.2
145°	347.4	357.2	367.1	369.6	391.4	420.3	434.9	455.8	497.7	529.2	533.7
147.5°	361.0	370.5	380.2	382.6	400.0	423.2	434.9	451.3	484.3	509.1	512.9
150°	369.9	378.6	387.2	389.4	404.6	424.7	434.9	448.8	476.7	497.5	500.6
152.5°	378.9	385.5	392.1	393.8	407.4	425.7	434.9	446.7	470.5	488.3	490.6
155°	392.6	397.5	402.3	403.5	413.9	427.9	434.9	444.3	463.3	477.4	479.0
157.5°	402.7	407.3	412.1	413.3	420.4	430.1	434.9	442.2	457.0	468.0	469.0
160°	409.4	413.1	416.7	417.7	423.4	431.1	434.9	441.2	453.8	463.3	463.8
162.5°	416.2	419.0	421.8	422.4	426.6	432.1	434.9	440.2	450.8	458.8	459.4
165°	423.6	426.1	428.6	429.2	431.1	433.6	434.9	438.7	446.3	452.0	452.7
167.5°	430.4	431.5	432.8	433.1	434.7	436.8	437.8	440.3	445.3	449.0	449.3
170°	434.9	436.0	437.3	437.6	437.6	437.7	437.8	440.3	445.3	449.0	449.0
172.5°	437.3	437.6	437.7	437.8	437.8	437.8	437.8	439.8	443.7	446.6	446.4
175°	440.5	440.5	440.5	440.5	439.7	438.4	437.8	439.1	441.6	443.4	443.4
177.5°	440.5	440.5	440.5	440.5	439.8	438.9	438.4	439.4	441.4	442.8	442.5
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	2054.0	2048.4	2054.0	2050.3	2052.2	2046.4	2029.4	2023.7	2029.4	2035.1	2035.1
5°	2078.7	2074.8	2078.7	2078.7	2076.8	2072.9	2054.0	2050.3	2054.0	2055.9	2052.2
7.5°	2086.2	2080.6	2086.2	2082.5	2082.5	2078.7	2059.7	2055.9	2057.8	2063.5	2057.8
10°	2086.2	2080.6	2086.2	2084.3	2082.5	2078.7	2059.7	2052.2	2052.2	2057.8	2052.2
12.5°	2076.8	2072.9	2076.8	2072.9	2072.9	2069.2	2050.3	2042.6	2044.5	2046.4	2038.9
15°	2061.6	2055.9	2061.6	2057.8	2059.7	2054.0	2033.2	2025.6	2025.6	2029.4	2016.1
17.5°	2038.9	2031.3	2038.9	2037.0	2035.1	2031.3	2012.3	2004.8	2002.8	2004.8	1995.3
20°	2012.3	2006.7	2012.3	2010.5	2010.5	2002.8	1983.9	1974.4	1974.4	1974.4	1965.0
22.5°	1970.6	1965.0	1970.6	1974.4	1974.4	1972.5	1955.5	1942.2	1938.5	1938.5	1927.1
25°	1923.3	1917.6	1923.3	1923.3	1921.4	1923.3	1917.6	1910.0	1904.4	1898.6	1887.2
27.5°	1877.8	1874.0	1877.8	1874.0	1877.8	1872.1	1870.2	1868.3	1860.8	1855.1	1839.9
30°	1832.4	1828.5	1832.4	1828.5	1824.8	1821.0	1811.5	1807.7	1815.2	1811.5	1786.8
32.5°	1775.5	1771.7	1775.5	1775.5	1771.7	1771.7	1756.5	1750.9	1752.7	1764.1	1741.4
35°	1716.7	1711.0	1716.7	1714.8	1716.7	1711.0	1701.5	1699.7	1692.1	1705.4	1688.3
37.5°	1648.6	1642.8	1648.6	1648.6	1648.6	1652.3	1644.7	1639.0	1627.7	1644.7	1631.5
40°	1578.4	1570.8	1578.4	1576.6	1578.4	1582.2	1578.4	1574.7	1563.3	1576.6	1565.2
42.5°	1498.8	1496.9	1498.8	1500.7	1500.7	1508.3	1514.0	1506.4	1502.7	1493.2	1500.7
45°	1413.5	1409.8	1413.5	1417.4	1419.3	1423.0	1440.1	1440.1	1434.4	1419.3	1430.7
47.5°	1322.6	1313.1	1322.6	1334.0	1334.0	1339.6	1356.7	1369.9	1360.5	1341.5	1347.3
50°	1225.9	1227.8	1225.9	1233.6	1233.6	1254.4	1267.6	1280.9	1290.4	1267.6	1241.1
52.5°	1131.3	1129.4	1131.3	1136.9	1144.5	1153.9	1176.7	1190.0	1205.1	1191.9	1150.2
55°	1036.5	1040.2	1036.5	1038.4	1042.2	1047.9	1081.9	1095.2	1123.6	1106.6	1063.0
57.5°	941.8	936.0	941.8	945.6	947.4	953.1	981.5	1006.2	1023.2	1025.1	972.1
60°	831.9	824.2	831.9	848.9	852.7	856.5	883.0	905.7	920.9	926.6	871.7
62.5°	735.2	721.9	735.2	746.6	754.1	763.6	782.5	816.7	830.0	831.9	754.1
65°	632.9	627.2	632.9	655.7	657.5	668.9	689.7	714.4	742.8	739.0	627.2
67.5°	540.1	540.1	540.1	555.2	566.5	572.3	598.8	610.1	646.2	649.9	522.9
70°	454.8	452.9	454.8	466.1	473.7	487.0	511.7	524.9	553.3	562.8	424.5
72.5°	373.3	371.4	373.3	382.8	390.3	401.7	422.5	437.7	462.3	473.7	329.7
75°	301.3	297.5	301.3	308.9	306.9	322.1	339.2	354.4	377.1	384.7	244.4
77.5°	231.2	231.2	231.2	238.8	238.8	253.9	261.5	280.5	293.7	305.0	180.1
80°	172.4	170.6	172.4	174.3	174.3	181.9	195.2	208.5	219.8	219.8	123.2
82.5°	121.2	117.5	121.2	121.2	121.2	125.1	132.6	136.4	144.0	149.7	77.6
85°	75.8	75.8	75.8	77.6	75.8	79.6	81.5	85.3	85.3	81.5	47.3
87.5°	49.2	47.3	49.2	47.3	47.3	45.5	45.5	45.5	43.6	41.7	26.5
90°	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.5	19.3	13.0	8.3
92.5°	44.9	36.0	44.9	53.9	56.1	79.6	110.8	126.5	111.1	80.2	57.1
95°	156.8	129.8	156.8	183.9	190.7	250.4	330.1	369.9	312.4	197.4	111.1
97.5°	375.8	324.3	375.8	427.2	440.1	477.9	528.3	553.4	457.6	265.9	122.1
100°	541.5	480.1	541.5	602.9	618.2	615.4	611.7	609.9	503.5	290.8	131.3
102.5°	704.4	651.8	704.4	757.0	770.1	722.0	657.9	625.8	518.0	302.3	140.5
105°	912.2	883.9	912.2	940.4	947.5	839.6	695.9	624.0	519.6	310.7	154.0
107.5°	1048.2	1055.1	1048.2	1041.4	1039.7	889.3	688.7	588.5	496.5	312.3	174.1
110°	1100.1	1129.6	1100.1	1070.7	1063.4	895.3	671.1	559.0	476.0	309.9	185.3



TEST NUMBER: P934442

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1104.8	1149.9	1104.8	1059.6	1048.3	876.3	646.9	532.1	458.1	310.0	199.0
115°	1075.4	1138.2	1075.4	1012.8	997.1	831.4	610.4	499.9	437.6	312.9	219.4
117.5°	1013.4	1082.9	1013.4	943.9	926.5	776.9	577.4	477.7	424.7	318.7	239.1
120°	963.3	1030.9	963.3	895.8	878.8	742.2	559.9	468.8	420.3	323.4	250.7
122.5°	914.6	981.1	914.6	848.0	831.3	708.3	544.1	462.0	418.0	330.2	264.3
125°	845.0	906.4	845.0	783.6	768.3	663.8	524.4	454.7	416.2	339.4	281.7
127.5°	782.5	834.3	782.5	730.6	717.7	627.9	508.3	448.5	415.2	348.5	298.6
130°	745.6	793.4	745.6	697.8	685.9	605.9	499.3	446.1	415.8	355.2	309.8
132.5°	712.2	755.0	712.2	669.3	658.6	587.1	491.8	444.1	416.2	360.7	319.0
135°	666.4	703.3	666.4	629.5	620.2	560.3	480.5	440.5	415.8	366.6	329.6
137.5°	629.7	659.9	629.7	599.3	591.8	541.1	473.6	439.8	418.3	375.4	343.2
140°	604.3	632.6	604.3	576.1	569.0	525.3	467.0	437.8	418.8	380.9	352.4
142.5°	583.5	607.8	583.5	559.2	553.1	514.6	463.5	437.8	420.3	385.3	359.1
145°	552.2	570.6	552.2	533.7	529.2	497.7	455.8	434.9	420.3	391.4	369.6
147.5°	528.1	543.3	528.1	512.9	509.1	484.3	451.3	434.9	423.2	400.0	382.6
150°	513.0	525.3	513.0	500.6	497.5	476.7	448.8	434.9	424.7	404.6	389.4
152.5°	500.0	509.4	500.0	490.6	488.3	470.5	446.7	434.9	425.7	407.4	393.8
155°	485.2	491.3	485.2	479.0	477.4	463.3	444.3	434.9	427.9	413.9	403.5
157.5°	473.4	477.7	473.4	469.0	468.0	457.0	442.2	434.9	430.1	420.4	413.3
160°	466.3	468.8	466.3	463.8	463.3	453.8	441.2	434.9	431.1	423.4	417.7
162.5°	461.7	464.1	461.7	459.4	458.8	450.8	440.2	434.9	432.1	426.6	422.4
165°	455.1	457.6	455.1	452.7	452.0	446.3	438.7	434.9	433.6	431.1	429.2
167.5°	450.4	451.4	450.4	449.3	449.0	445.3	440.3	437.8	436.8	434.7	433.1
170°	449.0	449.0	449.0	449.0	449.0	445.3	440.3	437.8	437.7	437.6	437.6
172.5°	445.5	444.6	445.5	446.4	446.6	443.7	439.8	437.8	437.8	437.8	437.8
175°	443.4	443.4	443.4	443.4	443.4	441.6	439.1	437.8	438.4	439.7	440.5
177.5°	441.6	440.5	441.6	442.5	442.8	441.4	439.4	438.4	438.9	439.8	440.5
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5



TEST NUMBER: P934442

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	2031.3	2020.0	2020.0	2000.9	1993.4	1987.7	1978.3	1949.8	1942.2	1934.7	1946.0
5°	2048.4	2027.5	2012.3	1978.3	1949.8	1938.5	1902.4	1834.3	1788.8	1754.6	1735.7
7.5°	2052.2	2025.6	1997.2	1944.1	1876.0	1845.5	1735.7	1610.6	1576.6	1546.2	1527.2
10°	2048.4	2018.0	1978.3	1898.6	1737.6	1684.5	1574.7	1493.2	1472.3	1466.6	1472.3
12.5°	2035.1	2006.7	1951.7	1819.1	1593.6	1557.5	1493.2	1445.8	1442.0	1451.5	1502.7
15°	2012.3	1985.8	1921.4	1712.9	1514.0	1487.5	1442.0	1424.9	1445.8	1512.1	1665.6
17.5°	1989.6	1959.2	1879.7	1608.7	1453.3	1434.4	1402.2	1436.3	1553.8	1642.8	1694.0
20°	1959.2	1923.3	1832.4	1533.0	1409.8	1392.7	1377.6	1531.1	1620.1	1652.3	1680.7
22.5°	1923.3	1885.4	1767.9	1479.9	1364.3	1351.0	1360.5	1584.1	1620.1	1642.8	1667.5
25°	1876.0	1843.7	1692.1	1438.2	1328.3	1313.1	1349.2	1578.4	1599.2	1605.0	1654.2
27.5°	1832.4	1790.7	1612.5	1400.3	1284.7	1279.0	1358.7	1553.8	1568.9	1574.7	1627.7
30°	1779.3	1716.7	1523.5	1360.5	1239.2	1237.3	1360.5	1523.5	1519.7	1534.9	1587.9
32.5°	1724.3	1606.9	1423.0	1311.2	1195.6	1193.8	1347.3	1478.0	1474.2	1495.0	1534.9
35°	1673.1	1521.6	1286.7	1254.4	1140.7	1142.6	1315.1	1424.9	1426.8	1445.8	1470.4
37.5°	1620.1	1447.7	1136.9	1191.9	1087.7	1087.7	1271.4	1375.7	1371.9	1377.6	1411.6
40°	1557.5	1332.1	1004.3	1110.4	1038.4	1032.7	1218.4	1322.6	1309.3	1307.5	1354.8
42.5°	1491.3	1205.1	905.7	1002.4	981.5	974.0	1153.9	1258.2	1233.6	1239.2	1299.8
45°	1419.3	1171.0	830.0	847.0	922.8	917.1	1083.8	1184.2	1167.2	1182.4	1245.0
47.5°	1347.3	1102.8	805.3	703.0	860.3	858.4	1006.2	1112.2	1102.8	1118.0	1184.2
50°	1248.7	1027.0	803.4	602.6	790.2	797.8	913.4	1042.2	1042.2	1055.4	1125.5
52.5°	1121.7	934.2	729.5	545.7	708.6	731.4	831.9	981.5	985.4	998.6	1061.1
55°	1006.2	837.5	676.5	502.1	612.1	661.3	752.2	919.0	926.6	939.8	996.7
57.5°	900.1	697.4	665.1	450.9	522.9	570.4	682.1	858.4	862.2	873.6	928.5
60°	786.4	504.0	610.1	396.1	445.3	481.3	617.7	786.4	799.7	807.2	854.5
62.5°	657.5	365.7	553.3	358.1	407.4	415.0	564.6	718.2	735.2	740.9	769.4
65°	468.1	306.9	470.0	325.9	367.6	369.5	507.8	648.0	663.2	672.7	693.5
67.5°	316.4	250.1	358.1	295.6	337.2	339.2	452.9	566.5	587.4	594.9	608.2
70°	219.8	166.8	265.2	263.4	303.2	306.9	394.1	492.6	511.7	517.3	524.9
72.5°	161.0	134.5	219.8	236.8	267.2	271.0	333.5	409.3	428.3	433.9	437.7
75°	123.2	142.1	178.1	206.5	227.4	229.3	272.9	333.5	346.7	350.5	352.5
77.5°	98.5	132.6	130.7	166.8	185.7	181.9	214.1	257.7	269.1	269.1	269.1
80°	73.9	104.2	98.5	119.3	136.4	132.6	153.5	183.8	187.6	191.3	189.5
82.5°	55.0	66.4	66.4	75.8	90.9	87.2	102.3	119.3	119.3	119.3	123.2
85°	34.1	37.9	30.3	39.8	51.2	49.2	56.9	64.4	66.4	66.4	62.5
87.5°	20.8	17.0	9.5	15.2	22.8	22.8	26.5	28.4	26.5	26.5	26.5
90°	7.7	5.4	3.0	5.4	7.7	8.3	13.0	19.3	22.5	20.0	14.9
92.5°	52.0	31.9	11.9	31.9	52.0	57.1	80.2	111.1	126.5	110.8	79.6
95°	101.9	65.1	28.4	65.1	101.9	111.1	197.4	312.4	369.9	330.1	250.4
97.5°	114.0	81.6	49.1	81.6	114.0	122.1	265.9	457.6	553.4	528.3	477.9
100°	123.9	94.5	65.0	94.5	123.9	131.3	290.8	503.5	609.9	611.7	615.4
102.5°	133.6	106.1	78.6	106.1	133.6	140.5	302.3	518.0	625.8	657.9	722.0
105°	148.2	125.0	101.7	125.0	148.2	154.0	310.7	519.6	624.0	695.9	839.6
107.5°	168.7	147.1	125.4	147.1	168.7	174.1	312.3	496.5	588.5	688.7	889.3
110°	180.4	160.8	141.3	160.8	180.4	185.3	309.9	476.0	559.0	671.1	895.3



TEST NUMBER: P934442

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.3	175.7	157.0	175.7	194.3	199.0	310.0	458.1	532.1	646.9	876.3
115°	215.0	197.8	180.6	197.8	215.0	219.4	312.9	437.6	499.9	610.4	831.4
117.5°	235.2	219.6	204.0	219.6	235.2	239.1	318.7	424.7	477.7	577.4	776.9
120°	247.0	232.3	217.5	232.3	247.0	250.7	323.4	420.3	468.8	559.9	742.2
122.5°	260.6	245.7	230.9	245.7	260.6	264.3	330.2	418.0	462.0	544.1	708.3
125°	278.3	264.8	251.3	264.8	278.3	281.7	339.4	416.2	454.7	524.4	663.8
127.5°	295.2	281.5	267.8	281.5	295.2	298.6	348.5	415.2	448.5	508.3	627.9
130°	306.2	291.4	276.7	291.4	306.2	309.8	355.2	415.8	446.1	499.3	605.9
132.5°	315.4	300.6	285.9	300.6	315.4	319.0	360.7	416.2	444.1	491.8	587.1
135°	326.3	312.9	299.5	312.9	326.3	329.6	366.6	415.8	440.5	480.5	560.3
137.5°	339.8	326.6	313.3	326.6	339.8	343.2	375.4	418.3	439.8	473.6	541.1
140°	349.3	337.2	324.9	337.2	349.3	352.4	380.9	418.8	437.8	467.0	525.3
142.5°	356.3	345.0	333.7	345.0	356.3	359.1	385.3	420.3	437.8	463.5	514.6
145°	367.1	357.2	347.4	357.2	367.1	369.6	391.4	420.3	434.9	455.8	497.7
147.5°	380.2	370.5	361.0	370.5	380.2	382.6	400.0	423.2	434.9	451.3	484.3
150°	387.2	378.6	369.9	378.6	387.2	389.4	404.6	424.7	434.9	448.8	476.7
152.5°	392.1	385.5	378.9	385.5	392.1	393.8	407.4	425.7	434.9	446.7	470.5
155°	402.3	397.5	392.6	397.5	402.3	403.5	413.9	427.9	434.9	444.3	463.3
157.5°	412.1	407.3	402.7	407.3	412.1	413.3	420.4	430.1	434.9	442.2	457.0
160°	416.7	413.1	409.4	413.1	416.7	417.7	423.4	431.1	434.9	441.2	453.8
162.5°	421.8	419.0	416.2	419.0	421.8	422.4	426.6	432.1	434.9	440.2	450.8
165°	428.6	426.1	423.6	426.1	428.6	429.2	431.1	433.6	434.9	438.7	446.3
167.5°	432.8	431.5	430.4	431.5	432.8	433.1	434.7	436.8	437.8	440.3	445.3
170°	437.3	436.0	434.9	436.0	437.3	437.6	437.6	437.7	437.8	440.3	445.3
172.5°	437.7	437.6	437.3	437.6	437.7	437.8	437.8	437.8	437.8	439.8	443.7
175°	440.5	440.5	440.5	440.5	440.5	440.5	439.7	438.4	437.8	439.1	441.6
177.5°	440.5	440.5	440.5	440.5	440.5	440.5	439.8	438.9	438.4	439.4	441.4
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5



TEST NUMBER: P934442

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	1932.8	1927.1	1934.7	1913.8	1934.7	1927.1	1932.8	1946.0	1934.7	1942.2	1949.8
5°	1695.9	1686.4	1656.1	1631.5	1656.1	1686.4	1695.9	1735.7	1754.6	1788.8	1834.3
7.5°	1515.9	1508.3	1500.7	1485.5	1500.7	1508.3	1515.9	1527.2	1546.2	1576.6	1610.6
10°	1476.1	1478.0	1489.4	1487.5	1489.4	1478.0	1476.1	1472.3	1466.6	1472.3	1493.2
12.5°	1578.4	1595.5	1658.0	1654.2	1658.0	1595.5	1578.4	1502.7	1451.5	1442.0	1445.8
15°	1695.9	1701.5	1714.8	1716.7	1714.8	1701.5	1695.9	1665.6	1512.1	1445.8	1424.9
17.5°	1707.3	1709.2	1718.7	1718.7	1718.7	1709.2	1707.3	1694.0	1642.8	1553.8	1436.3
20°	1697.8	1701.5	1720.6	1724.3	1720.6	1701.5	1697.8	1680.7	1652.3	1620.1	1531.1
22.5°	1694.0	1701.5	1716.7	1714.8	1716.7	1701.5	1694.0	1667.5	1642.8	1620.1	1584.1
25°	1675.1	1675.1	1677.0	1678.9	1677.0	1675.1	1675.1	1654.2	1605.0	1599.2	1578.4
27.5°	1635.3	1639.0	1650.4	1648.6	1650.4	1639.0	1635.3	1627.7	1574.7	1568.9	1553.8
30°	1599.2	1595.5	1586.0	1578.4	1586.0	1595.5	1599.2	1587.9	1534.9	1519.7	1523.5
32.5°	1538.6	1529.1	1519.7	1514.0	1519.7	1529.1	1538.6	1534.9	1495.0	1474.2	1478.0
35°	1466.6	1468.5	1466.6	1461.0	1466.6	1468.5	1466.6	1470.4	1445.8	1426.8	1424.9
37.5°	1415.5	1419.3	1417.4	1409.8	1417.4	1419.3	1415.5	1411.6	1377.6	1371.9	1375.7
40°	1362.4	1364.3	1362.4	1356.7	1362.4	1364.3	1362.4	1354.8	1307.5	1309.3	1322.6
42.5°	1311.2	1309.3	1303.7	1299.8	1303.7	1309.3	1311.2	1299.8	1239.2	1233.6	1258.2
45°	1252.5	1254.4	1243.1	1237.3	1243.1	1254.4	1252.5	1245.0	1182.4	1167.2	1184.2
47.5°	1193.8	1193.8	1184.2	1178.6	1184.2	1193.8	1193.8	1184.2	1118.0	1102.8	1112.2
50°	1131.3	1129.4	1116.1	1114.2	1116.1	1129.4	1131.3	1125.5	1055.4	1042.2	1042.2
52.5°	1059.3	1059.3	1061.1	1064.9	1061.1	1059.3	1059.3	1061.1	998.6	985.4	981.5
55°	996.7	998.6	1011.8	1015.7	1011.8	998.6	996.7	996.7	939.8	926.6	919.0
57.5°	932.3	932.3	941.8	941.8	941.8	932.3	932.3	928.5	873.6	862.2	858.4
60°	858.4	862.2	869.8	867.8	869.8	862.2	858.4	854.5	807.2	799.7	786.4
62.5°	780.6	784.5	786.4	782.5	786.4	784.5	780.6	769.4	740.9	735.2	718.2
65°	699.2	703.0	704.9	701.1	704.9	703.0	699.2	693.5	672.7	663.2	648.0
67.5°	615.8	614.0	612.1	619.6	612.1	614.0	615.8	608.2	594.9	587.4	566.5
70°	530.6	530.6	528.7	532.4	528.7	530.6	530.6	524.9	517.3	511.7	492.6
72.5°	439.6	437.7	445.3	439.6	445.3	437.7	439.6	437.7	433.9	428.3	409.3
75°	350.5	354.4	350.5	356.3	350.5	354.4	350.5	352.5	350.5	346.7	333.5
77.5°	267.2	271.0	267.2	267.2	267.2	271.0	267.2	269.1	269.1	269.1	257.7
80°	189.5	187.6	187.6	185.7	187.6	187.6	189.5	189.5	191.3	187.6	183.8
82.5°	121.2	119.3	119.3	123.2	119.3	119.3	121.2	123.2	119.3	119.3	119.3
85°	66.4	68.2	64.4	64.4	64.4	68.2	66.4	62.5	66.4	66.4	64.4
87.5°	24.7	22.8	22.8	22.8	22.8	22.8	24.7	26.5	26.5	26.5	28.4
90°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.5	19.3
92.5°	56.1	53.9	44.9	36.0	44.9	53.9	56.1	79.6	110.8	126.5	111.1
95°	190.7	183.9	156.8	129.8	156.8	183.9	190.7	250.4	330.1	369.9	312.4
97.5°	440.1	427.2	375.8	324.3	375.8	427.2	440.1	477.9	528.3	553.4	457.6
100°	618.2	602.9	541.5	480.1	541.5	602.9	618.2	615.4	611.7	609.9	503.5
102.5°	770.1	757.0	704.4	651.8	704.4	757.0	770.1	722.0	657.9	625.8	518.0
105°	947.5	940.4	912.2	883.9	912.2	940.4	947.5	839.6	695.9	624.0	519.6
107.5°	1039.7	1041.4	1048.2	1055.1	1048.2	1041.4	1039.7	889.3	688.7	588.5	496.5
110°	1063.4	1070.7	1100.1	1129.6	1100.1	1070.7	1063.4	895.3	671.1	559.0	476.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1048.3	1059.6	1104.8	1149.9	1104.8	1059.6	1048.3	876.3	646.9	532.1	458.1
115°	997.1	1012.8	1075.4	1138.2	1075.4	1012.8	997.1	831.4	610.4	499.9	437.6
117.5°	926.5	943.9	1013.4	1082.9	1013.4	943.9	926.5	776.9	577.4	477.7	424.7
120°	878.8	895.8	963.3	1030.9	963.3	895.8	878.8	742.2	559.9	468.8	420.3
122.5°	831.3	848.0	914.6	981.1	914.6	848.0	831.3	708.3	544.1	462.0	418.0
125°	768.3	783.6	845.0	906.4	845.0	783.6	768.3	663.8	524.4	454.7	416.2
127.5°	717.7	730.6	782.5	834.3	782.5	730.6	717.7	627.9	508.3	448.5	415.2
130°	685.9	697.8	745.6	793.4	745.6	697.8	685.9	605.9	499.3	446.1	415.8
132.5°	658.6	669.3	712.2	755.0	712.2	669.3	658.6	587.1	491.8	444.1	416.2
135°	620.2	629.5	666.4	703.3	666.4	629.5	620.2	560.3	480.5	440.5	415.8
137.5°	591.8	599.3	629.7	659.9	629.7	599.3	591.8	541.1	473.6	439.8	418.3
140°	569.0	576.1	604.3	632.6	604.3	576.1	569.0	525.3	467.0	437.8	418.8
142.5°	553.1	559.2	583.5	607.8	583.5	559.2	553.1	514.6	463.5	437.8	420.3
145°	529.2	533.7	552.2	570.6	552.2	533.7	529.2	497.7	455.8	434.9	420.3
147.5°	509.1	512.9	528.1	543.3	528.1	512.9	509.1	484.3	451.3	434.9	423.2
150°	497.5	500.6	513.0	525.3	513.0	500.6	497.5	476.7	448.8	434.9	424.7
152.5°	488.3	490.6	500.0	509.4	500.0	490.6	488.3	470.5	446.7	434.9	425.7
155°	477.4	479.0	485.2	491.3	485.2	479.0	477.4	463.3	444.3	434.9	427.9
157.5°	468.0	469.0	473.4	477.7	473.4	469.0	468.0	457.0	442.2	434.9	430.1
160°	463.3	463.8	466.3	468.8	466.3	463.8	463.3	453.8	441.2	434.9	431.1
162.5°	458.8	459.4	461.7	464.1	461.7	459.4	458.8	450.8	440.2	434.9	432.1
165°	452.0	452.7	455.1	457.6	455.1	452.7	452.0	446.3	438.7	434.9	433.6
167.5°	449.0	449.3	450.4	451.4	450.4	449.3	449.0	445.3	440.3	437.8	436.8
170°	449.0	449.0	449.0	449.0	449.0	449.0	449.0	445.3	440.3	437.8	437.7
172.5°	446.6	446.4	445.5	444.6	445.5	446.4	446.6	443.7	439.8	437.8	437.8
175°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	441.6	439.1	437.8	438.4
177.5°	442.8	442.5	441.6	440.5	441.6	442.5	442.8	441.4	439.4	438.4	438.9
180°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2002.8	2002.8	2002.8	2002.8	2002.8
2.5°	1978.3	1987.7	1993.4	2000.9	2020.0
5°	1902.4	1938.5	1949.8	1978.3	2012.3
7.5°	1735.7	1845.5	1876.0	1944.1	1997.2
10°	1574.7	1684.5	1737.6	1898.6	1978.3
12.5°	1493.2	1557.5	1593.6	1819.1	1951.7
15°	1442.0	1487.5	1514.0	1712.9	1921.4
17.5°	1402.2	1434.4	1453.3	1608.7	1879.7
20°	1377.6	1392.7	1409.8	1533.0	1832.4
22.5°	1360.5	1351.0	1364.3	1479.9	1767.9
25°	1349.2	1313.1	1328.3	1438.2	1692.1
27.5°	1358.7	1279.0	1284.7	1400.3	1612.5
30°	1360.5	1237.3	1239.2	1360.5	1523.5
32.5°	1347.3	1193.8	1195.6	1311.2	1423.0
35°	1315.1	1142.6	1140.7	1254.4	1286.7
37.5°	1271.4	1087.7	1087.7	1191.9	1136.9
40°	1218.4	1032.7	1038.4	1110.4	1004.3
42.5°	1153.9	974.0	981.5	1002.4	905.7
45°	1083.8	917.1	922.8	847.0	830.0
47.5°	1006.2	858.4	860.3	703.0	805.3
50°	913.4	797.8	790.2	602.6	803.4
52.5°	831.9	731.4	708.6	545.7	729.5
55°	752.2	661.3	612.1	502.1	676.5
57.5°	682.1	570.4	522.9	450.9	665.1
60°	617.7	481.3	445.3	396.1	610.1
62.5°	564.6	415.0	407.4	358.1	553.3
65°	507.8	369.5	367.6	325.9	470.0
67.5°	452.9	339.2	337.2	295.6	358.1
70°	394.1	306.9	303.2	263.4	265.2
72.5°	333.5	271.0	267.2	236.8	219.8
75°	272.9	229.3	227.4	206.5	178.1
77.5°	214.1	181.9	185.7	166.8	130.7
80°	153.5	132.6	136.4	119.3	98.5
82.5°	102.3	87.2	90.9	75.8	66.4
85°	56.9	49.2	51.2	39.8	30.3
87.5°	26.5	22.8	22.8	15.2	9.5
90°	13.0	8.3	7.7	5.4	3.0
92.5°	80.2	57.1	52.0	31.9	11.9
95°	197.4	111.1	101.9	65.1	28.4
97.5°	265.9	122.1	114.0	81.6	49.1
100°	290.8	131.3	123.9	94.5	65.0
102.5°	302.3	140.5	133.6	106.1	78.6
105°	310.7	154.0	148.2	125.0	101.7
107.5°	312.3	174.1	168.7	147.1	125.4
110°	309.9	185.3	180.4	160.8	141.3



TEST NUMBER: P934442

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.0	199.0	194.3	175.7	157.0
115°	312.9	219.4	215.0	197.8	180.6
117.5°	318.7	239.1	235.2	219.6	204.0
120°	323.4	250.7	247.0	232.3	217.5
122.5°	330.2	264.3	260.6	245.7	230.9
125°	339.4	281.7	278.3	264.8	251.3
127.5°	348.5	298.6	295.2	281.5	267.8
130°	355.2	309.8	306.2	291.4	276.7
132.5°	360.7	319.0	315.4	300.6	285.9
135°	366.6	329.6	326.3	312.9	299.5
137.5°	375.4	343.2	339.8	326.6	313.3
140°	380.9	352.4	349.3	337.2	324.9
142.5°	385.3	359.1	356.3	345.0	333.7
145°	391.4	369.6	367.1	357.2	347.4
147.5°	400.0	382.6	380.2	370.5	361.0
150°	404.6	389.4	387.2	378.6	369.9
152.5°	407.4	393.8	392.1	385.5	378.9
155°	413.9	403.5	402.3	397.5	392.6
157.5°	420.4	413.3	412.1	407.3	402.7
160°	423.4	417.7	416.7	413.1	409.4
162.5°	426.6	422.4	421.8	419.0	416.2
165°	431.1	429.2	428.6	426.1	423.6
167.5°	434.7	433.1	432.8	431.5	430.4
170°	437.6	437.6	437.3	436.0	434.9
172.5°	437.8	437.8	437.7	437.6	437.3
175°	439.7	440.5	440.5	440.5	440.5
177.5°	439.8	440.5	440.5	440.5	440.5
180°	440.5	440.5	440.5	440.5	440.5



TEST NUMBER: P934442
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.79	15.80	15.61	16.64	17.69	17.61	18.62	18.44	19.47	20.51
	3H	15.28	16.18	16.11	17.04	18.11	18.97	19.87	19.80	20.73	21.80
	4H	15.48	16.33	16.33	17.19	18.28	19.42	20.27	20.27	21.13	22.22
	6H	15.60	16.39	16.47	17.26	18.36	19.71	20.50	20.57	21.37	22.47
	8H	15.61	16.36	16.48	17.25	18.34	19.79	20.54	20.66	21.43	22.52
	12H	15.58	16.30	16.46	17.18	18.30	19.83	20.55	20.71	21.43	22.55
4H	2H	15.84	16.69	16.69	17.55	18.64	18.04	18.90	18.90	19.76	20.84
	3H	16.88	17.59	17.75	18.49	19.59	19.56	20.27	20.43	21.17	22.27
	4H	17.16	17.81	18.04	18.70	19.83	20.09	20.74	20.97	21.63	22.76
	6H	17.30	17.86	18.19	18.77	19.90	20.47	21.03	21.36	21.94	23.07
	8H	17.30	17.83	18.20	18.74	19.88	20.57	21.10	21.47	22.01	23.15
	12H	17.28	17.75	18.20	18.68	19.83	20.64	21.11	21.55	22.04	23.19
8H	4H	17.63	18.15	18.52	19.06	20.20	20.23	20.75	21.13	21.66	22.81
	6H	17.89	18.33	18.82	19.28	20.42	20.67	21.10	21.60	22.05	23.20
	8H	17.94	18.32	18.87	19.26	20.43	20.82	21.21	21.76	22.15	23.31
	12H	17.93	18.27	18.87	19.20	20.41	20.93	21.26	21.86	22.20	23.41
12H	4H	17.64	18.11	18.56	19.04	20.19	20.20	20.67	21.12	21.60	22.75
	6H	17.96	18.34	18.89	19.28	20.44	20.67	21.05	21.60	22.00	23.16
	8H	18.03	18.37	18.97	19.30	20.51	20.84	21.17	21.77	22.11	23.32