

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: P934464

Luminaire Tested: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934464
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-93050-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

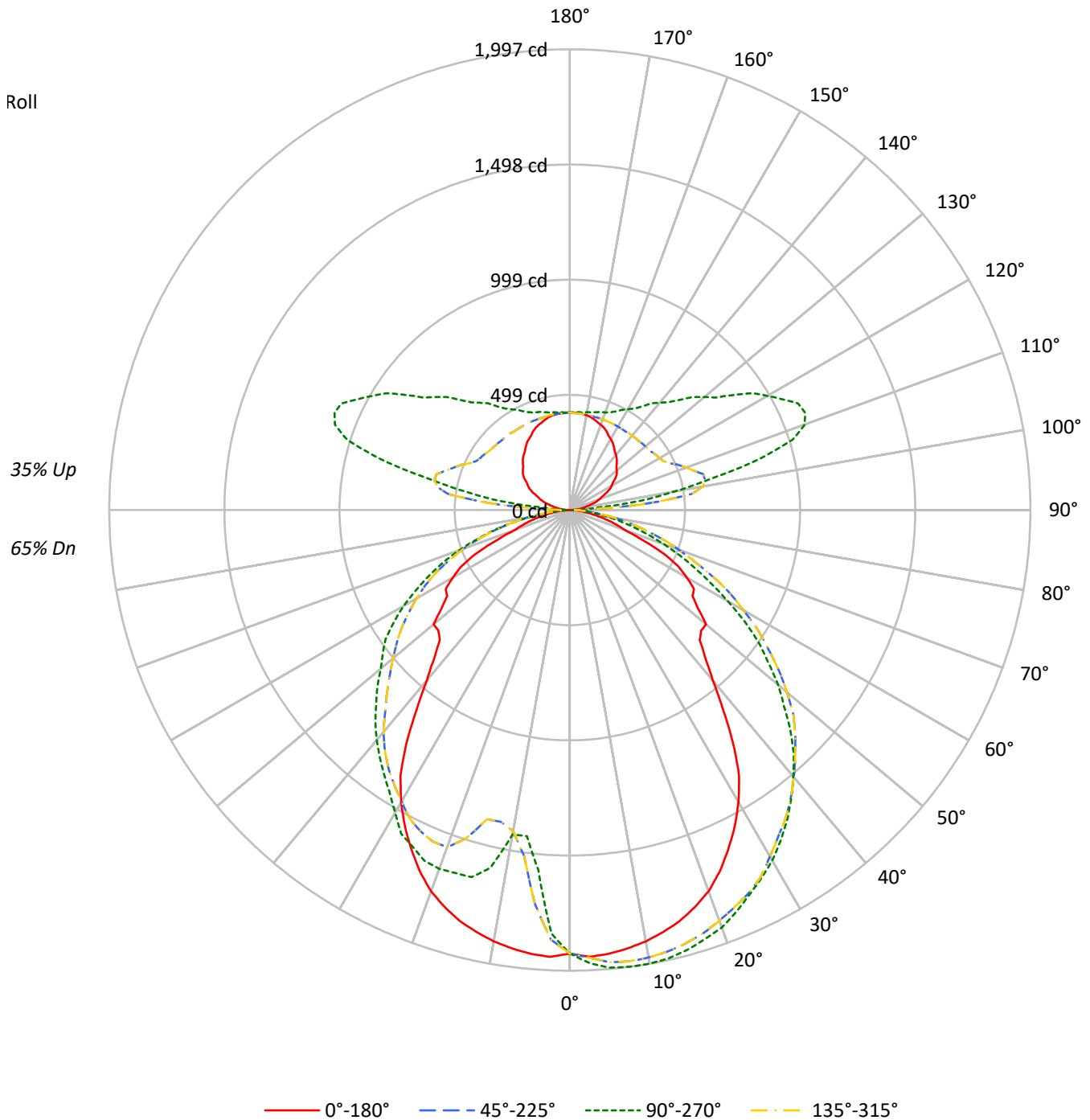
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7726.1 lumens
Efficiency: N/A
Efficacy: 114.0 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
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11891	11891	11891	11891
5°	11976	12003	11976	9439
10°	11891	11824	11891	8454
15°	11757	11568	11757	9659
20°	11507	11265	11507	9680
25°	10999	10822	10999	9475
30°	10345	10454	10345	9024
35°	9218	9989	9218	8529
40°	7677	9442	7677	8155
45°	6855	8802	6855	7725
50°	7276	8038	7276	7294
55°	6840	7215	6840	7044
60°	7042	6128	7042	6452
65°	6374	5065	6374	5662
70°	4403	4036	4403	4746
75°	3848	2984	3848	3573
80°	3076	1973	3076	2148
85°	1735	1046	1735	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10512 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	2.2
10°-20°	492.7	6.4
20°-30°	761.6	9.9
30°-40°	909.1	11.8
40°-50°	914.5	11.8
50°-60°	795.7	10.3
60°-70°	564.2	7.3
70°-80°	298.5	3.9
80°-90°	75.9	1.0
90°-100°	206.1	2.7
100°-110°	541.8	7.0
110°-120°	561.8	7.3
120°-130°	450.6	5.8
130°-140°	353.5	4.6
140°-150°	271.4	3.5
150°-160°	195.4	2.5
160°-170°	119.6	1.5
170°-180°	40.4	0.5
0°-30°	1427.7	18.5
0°-40°	2336.9	30.2
0°-60°	4047.0	52.4
0°-90°	4985.6	64.5
90°-120°	1309.6	17.0
90°-150°	2385.1	30.9
90°-180°	2740.0	35.5
0°-180°	7726.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1922	1922	1922	1922	1922	
5°	1931	1991	1931	1566	1931	183
15°	1844	1973	1844	1648	1844	519
25°	1624	1840	1624	1611	1624	746
35°	1235	1642	1235	1402	1235	764
45°	797	1353	797	1188	797	638
55°	649	998	649	975	649	597
65°	451	602	451	673	451	431
75°	171	286	171	342	171	180
85°	29	73	29	62	29	39
90°	3	11	3	11	3	4
95°	27	124	27	124	27	30
105°	98	848	98	848	98	103
115°	173	1092	173	1092	173	171
125°	241	870	241	870	241	214
135°	287	675	287	675	287	222
145°	333	548	333	548	333	209
155°	377	472	377	472	377	173
165°	406	439	406	439	406	115
175°	423	426	423	426	423	40
180°	423	423	423	423	423	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2
2.5°	1938.6	1938.6	1949.6	1953.1	1953.1	1947.7	1942.2	1947.7	1964.1	1969.6	1967.7
5°	1931.3	1945.9	1965.9	1969.6	1973.1	1971.3	1967.7	1971.3	1989.5	1993.1	1995.0
7.5°	1916.8	1944.0	1969.6	1975.0	1980.4	1975.0	1973.1	1976.8	1995.0	1998.6	1998.6
10°	1898.6	1936.8	1965.9	1969.6	1975.0	1969.6	1969.6	1976.8	1995.0	1998.6	2000.4
12.5°	1873.1	1925.9	1953.1	1956.8	1964.1	1962.2	1960.4	1967.7	1985.9	1989.5	1989.5
15°	1844.0	1905.9	1931.3	1935.0	1947.7	1944.0	1944.0	1951.3	1971.3	1976.8	1975.0
17.5°	1804.0	1880.4	1909.5	1915.0	1924.0	1922.2	1924.0	1931.3	1949.6	1953.1	1955.0
20°	1758.6	1845.9	1880.4	1885.9	1894.9	1894.9	1894.9	1904.0	1922.2	1929.5	1929.5
22.5°	1696.7	1809.5	1845.9	1849.5	1860.4	1860.4	1864.0	1876.8	1893.1	1894.9	1894.9
25°	1624.0	1769.5	1800.4	1811.3	1822.2	1827.7	1833.1	1840.4	1845.9	1844.0	1845.9
27.5°	1547.6	1718.6	1758.6	1765.8	1780.4	1785.8	1793.1	1794.9	1796.8	1802.2	1798.6
30°	1462.2	1647.6	1707.6	1714.9	1738.6	1742.2	1734.9	1738.6	1747.7	1751.3	1754.9
32.5°	1365.7	1542.2	1654.9	1671.3	1693.1	1682.1	1680.4	1685.8	1700.4	1700.4	1704.0
35°	1234.9	1460.3	1605.8	1620.4	1636.7	1624.0	1631.3	1633.0	1642.1	1647.6	1645.8
37.5°	1091.1	1389.4	1554.9	1565.8	1578.5	1562.2	1573.0	1578.5	1585.8	1582.2	1582.2
40°	963.9	1278.4	1494.8	1502.2	1513.1	1500.3	1511.3	1514.8	1518.5	1514.8	1513.1
42.5°	869.2	1156.6	1431.2	1440.3	1433.1	1442.2	1445.7	1453.1	1447.6	1440.3	1440.3
45°	796.6	1123.9	1362.1	1373.1	1362.1	1376.6	1382.1	1382.1	1365.7	1362.1	1360.3
47.5°	772.9	1058.4	1293.0	1293.0	1287.5	1305.7	1314.8	1302.1	1285.7	1280.3	1280.3
50°	771.0	985.7	1198.4	1191.2	1216.6	1238.4	1229.3	1216.6	1203.9	1183.9	1183.9
52.5°	700.1	896.6	1076.5	1103.9	1143.9	1156.6	1142.1	1129.3	1107.5	1098.4	1091.1
55°	649.3	803.8	965.7	1020.2	1062.0	1078.4	1051.1	1038.4	1005.7	1000.2	996.6
57.5°	638.3	669.3	863.8	932.9	983.9	982.0	965.7	942.0	914.8	909.3	907.5
60°	585.6	483.7	754.7	836.6	889.2	883.8	869.2	847.5	822.0	818.4	814.7
62.5°	531.0	351.0	631.0	723.8	798.4	796.6	783.8	751.0	732.9	723.8	716.5
65°	451.0	294.6	449.2	601.9	709.3	712.9	685.6	661.9	641.9	631.0	629.3
67.5°	343.7	240.1	303.7	501.9	623.8	620.2	585.6	574.7	549.2	543.7	532.8
70°	254.6	160.0	211.0	407.4	540.2	531.0	503.7	491.1	467.4	454.6	447.4
72.5°	211.0	129.1	154.5	316.4	454.6	443.7	420.1	405.5	385.5	374.6	367.4
75°	171.0	136.4	118.2	234.6	369.2	361.9	340.1	325.5	309.2	294.6	296.4
77.5°	125.4	127.3	94.5	172.8	292.7	281.9	269.2	251.0	243.6	229.1	229.1
80°	94.5	100.0	70.9	118.2	211.0	211.0	200.1	187.3	174.5	167.3	167.3
82.5°	63.7	63.7	52.8	74.5	143.7	138.2	131.0	127.3	120.0	116.4	116.4
85°	29.1	36.3	32.8	45.4	78.2	81.9	81.9	78.2	76.4	72.8	74.5
87.5°	9.1	16.3	20.0	25.4	40.0	41.8	43.7	43.7	43.7	45.4	45.4
90°	2.8	5.1	7.4	8.0	12.5	18.5	21.6	19.2	14.3	10.7	10.7
92.5°	11.4	30.7	49.9	54.8	77.0	106.6	121.4	106.4	76.4	53.9	51.8
95°	27.3	62.5	97.8	106.6	189.4	299.8	355.0	316.8	240.3	183.0	176.5
97.5°	47.1	78.3	109.4	117.2	255.2	439.2	531.2	507.0	458.7	422.4	410.0
100°	62.4	90.7	118.9	126.0	279.1	483.3	585.3	587.0	590.6	593.3	578.6
102.5°	75.4	101.9	128.2	134.8	290.1	497.1	600.6	631.4	693.0	739.1	726.5
105°	97.6	119.9	142.2	147.8	298.2	498.7	598.9	667.9	805.8	909.3	902.6
107.5°	120.3	141.1	161.9	167.1	299.7	476.5	564.8	661.0	853.5	997.8	999.5
110°	135.6	154.4	173.2	177.8	297.4	456.8	536.5	644.0	859.2	1020.6	1027.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	150.7	168.6	186.5	191.0	297.5	439.7	510.7	620.8	841.0	1006.1	1016.9
115°	173.4	189.9	206.4	210.5	300.3	419.9	479.8	585.9	797.9	957.0	972.0
117.5°	195.7	210.8	225.8	229.5	305.9	407.6	458.5	554.2	745.6	889.2	905.9
120°	208.8	222.9	237.0	240.6	310.4	403.4	449.9	537.4	712.3	843.5	859.7
122.5°	221.6	235.8	250.1	253.7	316.9	401.2	443.4	522.2	679.7	797.8	813.8
125°	241.2	254.1	267.1	270.4	325.7	399.5	436.4	503.3	637.1	737.4	752.1
127.5°	257.0	270.2	283.3	286.6	334.5	398.5	430.4	487.8	602.7	688.8	701.2
130°	265.6	279.7	293.8	297.3	340.9	399.0	428.1	479.2	581.5	658.3	669.7
132.5°	274.4	288.5	302.7	306.1	346.2	399.5	426.2	472.0	563.5	632.1	642.4
135°	287.4	300.3	313.1	316.3	351.8	399.1	422.8	461.1	537.8	595.2	604.1
137.5°	300.7	313.5	326.1	329.4	360.3	401.5	422.1	454.5	519.3	568.0	575.2
140°	311.8	323.6	335.2	338.2	365.5	402.0	420.2	448.2	504.2	546.1	552.9
142.5°	320.3	331.1	341.9	344.7	369.8	403.4	420.2	444.8	493.9	530.8	536.7
145°	333.4	342.9	352.3	354.7	375.6	403.4	417.4	437.5	477.7	507.9	512.3
147.5°	346.4	355.6	364.9	367.2	383.9	406.2	417.4	433.2	464.8	488.6	492.3
150°	355.0	363.3	371.6	373.7	388.3	407.6	417.4	430.8	457.5	477.5	480.4
152.5°	363.7	370.0	376.3	377.9	391.0	408.6	417.4	428.7	451.6	468.7	470.9
155°	376.8	381.5	386.1	387.3	397.3	410.7	417.4	426.5	444.6	458.2	459.7
157.5°	386.4	390.9	395.5	396.6	403.5	412.8	417.4	424.4	438.6	449.1	450.1
160°	393.0	396.4	399.9	400.8	406.4	413.7	417.4	423.4	435.5	444.6	445.2
162.5°	399.5	402.1	404.8	405.4	409.4	414.7	417.4	422.5	432.7	440.3	440.9
165°	406.5	408.9	411.3	412.0	413.8	416.2	417.4	421.0	428.3	433.8	434.4
167.5°	413.1	414.2	415.3	415.6	417.2	419.2	420.2	422.6	427.4	430.9	431.2
170°	417.4	418.5	419.7	419.9	420.0	420.1	420.2	422.6	427.4	430.9	430.9
172.5°	419.7	419.9	420.1	420.2	420.2	420.2	420.2	422.0	425.8	428.7	428.5
175°	422.8	422.8	422.8	422.8	422.0	420.8	420.2	421.4	423.8	425.5	425.5
177.5°	422.8	422.8	422.8	422.8	422.1	421.2	420.8	421.7	423.6	425.0	424.7
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2
2.5°	1971.3	1965.9	1971.3	1967.7	1969.6	1964.1	1947.7	1942.2	1947.7	1953.1	1953.1
5°	1995.0	1991.3	1995.0	1995.0	1993.1	1989.5	1971.3	1967.7	1971.3	1973.1	1969.6
7.5°	2002.2	1996.8	2002.2	1998.6	1998.6	1995.0	1976.8	1973.1	1975.0	1980.4	1975.0
10°	2002.2	1996.8	2002.2	2000.4	1998.6	1995.0	1976.8	1969.6	1969.6	1975.0	1969.6
12.5°	1993.1	1989.5	1993.1	1989.5	1989.5	1985.9	1967.7	1960.4	1962.2	1964.1	1956.8
15°	1978.6	1973.1	1978.6	1975.0	1976.8	1971.3	1951.3	1944.0	1944.0	1947.7	1935.0
17.5°	1956.8	1949.6	1956.8	1955.0	1953.1	1949.6	1931.3	1924.0	1922.2	1924.0	1915.0
20°	1931.3	1925.9	1931.3	1929.5	1929.5	1922.2	1904.0	1894.9	1894.9	1894.9	1885.9
22.5°	1891.3	1885.9	1891.3	1894.9	1894.9	1893.1	1876.8	1864.0	1860.4	1860.4	1849.5
25°	1845.9	1840.4	1845.9	1845.9	1844.0	1845.9	1840.4	1833.1	1827.7	1822.2	1811.3
27.5°	1802.2	1798.6	1802.2	1798.6	1802.2	1796.8	1794.9	1793.1	1785.8	1780.4	1765.8
30°	1758.6	1754.9	1758.6	1754.9	1751.3	1747.7	1738.6	1734.9	1742.2	1738.6	1714.9
32.5°	1704.0	1700.4	1704.0	1704.0	1700.4	1700.4	1685.8	1680.4	1682.1	1693.1	1671.3
35°	1647.6	1642.1	1647.6	1645.8	1647.6	1642.1	1633.0	1631.3	1624.0	1636.7	1620.4
37.5°	1582.2	1576.7	1582.2	1582.2	1582.2	1585.8	1578.5	1573.0	1562.2	1578.5	1565.8
40°	1514.8	1507.6	1514.8	1513.1	1514.8	1518.5	1514.8	1511.3	1500.3	1513.1	1502.2
42.5°	1438.5	1436.7	1438.5	1440.3	1440.3	1447.6	1453.1	1445.7	1442.2	1433.1	1440.3
45°	1356.6	1353.0	1356.6	1360.3	1362.1	1365.7	1382.1	1382.1	1376.6	1362.1	1373.1
47.5°	1269.4	1260.3	1269.4	1280.3	1280.3	1285.7	1302.1	1314.8	1305.7	1287.5	1293.0
50°	1176.6	1178.4	1176.6	1183.9	1183.9	1203.9	1216.6	1229.3	1238.4	1216.6	1191.2
52.5°	1085.7	1083.9	1085.7	1091.1	1098.4	1107.5	1129.3	1142.1	1156.6	1143.9	1103.9
55°	994.8	998.4	994.8	996.6	1000.2	1005.7	1038.4	1051.1	1078.4	1062.0	1020.2
57.5°	903.8	898.3	903.8	907.5	909.3	914.8	942.0	965.7	982.0	983.9	932.9
60°	798.4	791.1	798.4	814.7	818.4	822.0	847.5	869.2	883.8	889.2	836.6
62.5°	705.6	692.9	705.6	716.5	723.8	732.9	751.0	783.8	796.6	798.4	723.8
65°	607.4	601.9	607.4	629.3	631.0	641.9	661.9	685.6	712.9	709.3	601.9
67.5°	518.3	518.3	518.3	532.8	543.7	549.2	574.7	585.6	620.2	623.8	501.9
70°	436.5	434.6	436.5	447.4	454.6	467.4	491.1	503.7	531.0	540.2	407.4
72.5°	358.3	356.4	358.3	367.4	374.6	385.5	405.5	420.1	443.7	454.6	316.4
75°	289.2	285.5	289.2	296.4	294.6	309.2	325.5	340.1	361.9	369.2	234.6
77.5°	221.9	221.9	221.9	229.1	229.1	243.6	251.0	269.2	281.9	292.7	172.8
80°	165.5	163.7	165.5	167.3	167.3	174.5	187.3	200.1	211.0	211.0	118.2
82.5°	116.4	112.8	116.4	116.4	116.4	120.0	127.3	131.0	138.2	143.7	74.5
85°	72.8	72.8	72.8	74.5	72.8	76.4	78.2	81.9	81.9	78.2	45.4
87.5°	47.3	45.4	47.3	45.4	45.4	43.7	43.7	43.7	41.8	40.0	25.4
90°	10.7	10.7	10.7	10.7	10.7	14.3	19.2	21.6	18.5	12.5	8.0
92.5°	43.1	34.6	43.1	51.8	53.9	76.4	106.4	121.4	106.6	77.0	54.8
95°	150.5	124.5	150.5	176.5	183.0	240.3	316.8	355.0	299.8	189.4	106.6
97.5°	360.7	311.3	360.7	410.0	422.4	458.7	507.0	531.2	439.2	255.2	117.2
100°	519.7	460.8	519.7	578.6	593.3	590.6	587.0	585.3	483.3	279.1	126.0
102.5°	676.1	625.6	676.1	726.5	739.1	693.0	631.4	600.6	497.1	290.1	134.8
105°	875.5	848.3	875.5	902.6	909.3	805.8	667.9	598.9	498.7	298.2	147.8
107.5°	1006.0	1012.6	1006.0	999.5	997.8	853.5	661.0	564.8	476.5	299.7	167.1
110°	1055.8	1084.1	1055.8	1027.6	1020.6	859.2	644.0	536.5	456.8	297.4	177.8



TEST NUMBER: P934464

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1060.3	1103.6	1060.3	1016.9	1006.1	841.0	620.8	510.7	439.7	297.5	191.0
115°	1032.1	1092.3	1032.1	972.0	957.0	797.9	585.9	479.8	419.9	300.3	210.5
117.5°	972.6	1039.3	972.6	905.9	889.2	745.6	554.2	458.5	407.6	305.9	229.5
120°	924.5	989.4	924.5	859.7	843.5	712.3	537.4	449.9	403.4	310.4	240.6
122.5°	877.8	941.6	877.8	813.8	797.8	679.7	522.2	443.4	401.2	316.9	253.7
125°	811.0	869.9	811.0	752.1	737.4	637.1	503.3	436.4	399.5	325.7	270.4
127.5°	750.9	800.7	750.9	701.2	688.8	602.7	487.8	430.4	398.5	334.5	286.6
130°	715.6	761.5	715.6	669.7	658.3	581.5	479.2	428.1	399.0	340.9	297.3
132.5°	683.5	724.6	683.5	642.4	632.1	563.5	472.0	426.2	399.5	346.2	306.1
135°	639.5	675.0	639.5	604.1	595.2	537.8	461.1	422.8	399.1	351.8	316.3
137.5°	604.3	633.3	604.3	575.2	568.0	519.3	454.5	422.1	401.5	360.3	329.4
140°	580.0	607.1	580.0	552.9	546.1	504.2	448.2	420.2	402.0	365.5	338.2
142.5°	560.0	583.3	560.0	536.7	530.8	493.9	444.8	420.2	403.4	369.8	344.7
145°	530.0	547.6	530.0	512.3	507.9	477.7	437.5	417.4	403.4	375.6	354.7
147.5°	506.8	521.4	506.8	492.3	488.6	464.8	433.2	417.4	406.2	383.9	367.2
150°	492.3	504.2	492.3	480.4	477.5	457.5	430.8	417.4	407.6	388.3	373.7
152.5°	479.9	488.9	479.9	470.9	468.7	451.6	428.7	417.4	408.6	391.0	377.9
155°	465.6	471.5	465.6	459.7	458.2	444.6	426.5	417.4	410.7	397.3	387.3
157.5°	454.4	458.5	454.4	450.1	449.1	438.6	424.4	417.4	412.8	403.5	396.6
160°	447.6	449.9	447.6	445.2	444.6	435.5	423.4	417.4	413.7	406.4	400.8
162.5°	443.2	445.4	443.2	440.9	440.3	432.7	422.5	417.4	414.7	409.4	405.4
165°	436.8	439.2	436.8	434.4	433.8	428.3	421.0	417.4	416.2	413.8	412.0
167.5°	432.2	433.2	432.2	431.2	430.9	427.4	422.6	420.2	419.2	417.2	415.6
170°	430.9	430.9	430.9	430.9	430.9	427.4	422.6	420.2	420.1	420.0	419.9
172.5°	427.6	426.7	427.6	428.5	428.7	425.8	422.0	420.2	420.2	420.2	420.2
175°	425.5	425.5	425.5	425.5	425.5	423.8	421.4	420.2	420.8	422.0	422.8
177.5°	423.8	422.8	423.8	424.7	425.0	423.6	421.7	420.8	421.2	422.1	422.8
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P934464

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2
2.5°	1949.6	1938.6	1938.6	1920.4	1913.1	1907.7	1898.6	1871.3	1864.0	1856.8	1867.7
5°	1965.9	1945.9	1931.3	1898.6	1871.3	1860.4	1825.8	1760.4	1716.7	1684.0	1665.8
7.5°	1969.6	1944.0	1916.8	1865.9	1800.4	1771.2	1665.8	1545.8	1513.1	1483.9	1465.7
10°	1965.9	1936.8	1898.6	1822.2	1667.6	1616.7	1511.3	1433.1	1413.1	1407.6	1413.1
12.5°	1953.1	1925.9	1873.1	1745.8	1529.4	1494.8	1433.1	1387.6	1384.0	1393.1	1442.2
15°	1931.3	1905.9	1844.0	1644.0	1453.1	1427.6	1384.0	1367.5	1387.6	1451.2	1598.5
17.5°	1909.5	1880.4	1804.0	1543.9	1394.8	1376.6	1345.7	1378.5	1491.3	1576.7	1625.8
20°	1880.4	1845.9	1758.6	1471.2	1353.0	1336.6	1322.1	1469.4	1554.9	1585.8	1613.0
22.5°	1845.9	1809.5	1696.7	1420.3	1309.4	1296.6	1305.7	1520.3	1554.9	1576.7	1600.4
25°	1800.4	1769.5	1624.0	1380.3	1274.9	1260.3	1294.9	1514.8	1534.8	1540.4	1587.6
27.5°	1758.6	1718.6	1547.6	1344.0	1233.0	1227.5	1304.0	1491.3	1505.8	1511.3	1562.2
30°	1707.6	1647.6	1462.2	1305.7	1189.3	1187.5	1305.7	1462.2	1458.5	1473.1	1523.9
32.5°	1654.9	1542.2	1365.7	1258.4	1147.5	1145.7	1293.0	1418.5	1414.8	1434.8	1473.1
35°	1605.8	1460.3	1234.9	1203.9	1094.8	1096.6	1262.1	1367.5	1369.4	1387.6	1411.2
37.5°	1554.9	1389.4	1091.1	1143.9	1043.9	1043.9	1220.3	1320.3	1316.6	1322.1	1354.8
40°	1494.8	1278.4	963.9	1065.7	996.6	991.1	1169.3	1269.4	1256.6	1254.9	1300.3
42.5°	1431.2	1156.6	869.2	962.0	942.0	934.8	1107.5	1207.5	1183.9	1189.3	1247.5
45°	1362.1	1123.9	796.6	812.9	885.7	880.2	1040.2	1136.6	1120.2	1134.8	1194.8
47.5°	1293.0	1058.4	772.9	674.7	825.7	823.8	965.7	1067.5	1058.4	1073.0	1136.6
50°	1198.4	985.7	771.0	578.3	758.4	765.6	876.6	1000.2	1000.2	1013.0	1080.2
52.5°	1076.5	896.6	700.1	523.7	680.1	701.9	798.4	942.0	945.7	958.3	1018.4
55°	965.7	803.8	649.3	481.9	587.4	634.7	722.0	882.0	889.2	902.0	956.6
57.5°	863.8	669.3	638.3	432.8	501.9	547.4	654.7	823.8	827.5	838.4	891.1
60°	754.7	483.7	585.6	380.1	427.4	461.9	592.8	754.7	767.5	774.7	820.1
62.5°	631.0	351.0	531.0	343.7	391.0	398.3	541.9	689.3	705.6	711.0	738.4
65°	449.2	294.6	451.0	312.8	352.8	354.6	487.4	621.9	636.5	645.6	665.6
67.5°	303.7	240.1	343.7	283.7	323.7	325.5	434.6	543.7	563.7	571.0	583.7
70°	211.0	160.0	254.6	252.8	291.0	294.6	378.3	472.8	491.1	496.5	503.7
72.5°	154.5	129.1	211.0	227.3	256.4	260.1	320.1	392.8	411.0	416.4	420.1
75°	118.2	136.4	171.0	198.2	218.2	220.1	261.9	320.1	332.8	336.4	338.3
77.5°	94.5	127.3	125.4	160.0	178.2	174.5	205.5	247.3	258.2	258.2	258.2
80°	70.9	100.0	94.5	114.5	131.0	127.3	147.3	176.4	180.1	183.6	181.9
82.5°	52.8	63.7	63.7	72.8	87.3	83.7	98.2	114.5	114.5	114.5	118.2
85°	32.8	36.3	29.1	38.2	49.1	47.3	54.6	61.9	63.7	63.7	60.0
87.5°	20.0	16.3	9.1	14.6	21.8	21.8	25.4	27.3	25.4	25.4	25.4
90°	7.4	5.1	2.8	5.1	7.4	8.0	12.5	18.5	21.6	19.2	14.3
92.5°	49.9	30.7	11.4	30.7	49.9	54.8	77.0	106.6	121.4	106.4	76.4
95°	97.8	62.5	27.3	62.5	97.8	106.6	189.4	299.8	355.0	316.8	240.3
97.5°	109.4	78.3	47.1	78.3	109.4	117.2	255.2	439.2	531.2	507.0	458.7
100°	118.9	90.7	62.4	90.7	118.9	126.0	279.1	483.3	585.3	587.0	590.6
102.5°	128.2	101.9	75.4	101.9	128.2	134.8	290.1	497.1	600.6	631.4	693.0
105°	142.2	119.9	97.6	119.9	142.2	147.8	298.2	498.7	598.9	667.9	805.8
107.5°	161.9	141.1	120.3	141.1	161.9	167.1	299.7	476.5	564.8	661.0	853.5
110°	173.2	154.4	135.6	154.4	173.2	177.8	297.4	456.8	536.5	644.0	859.2



TEST NUMBER: P934464

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	186.5	168.6	150.7	168.6	186.5	191.0	297.5	439.7	510.7	620.8	841.0
115°	206.4	189.9	173.4	189.9	206.4	210.5	300.3	419.9	479.8	585.9	797.9
117.5°	225.8	210.8	195.7	210.8	225.8	229.5	305.9	407.6	458.5	554.2	745.6
120°	237.0	222.9	208.8	222.9	237.0	240.6	310.4	403.4	449.9	537.4	712.3
122.5°	250.1	235.8	221.6	235.8	250.1	253.7	316.9	401.2	443.4	522.2	679.7
125°	267.1	254.1	241.2	254.1	267.1	270.4	325.7	399.5	436.4	503.3	637.1
127.5°	283.3	270.2	257.0	270.2	283.3	286.6	334.5	398.5	430.4	487.8	602.7
130°	293.8	279.7	265.6	279.7	293.8	297.3	340.9	399.0	428.1	479.2	581.5
132.5°	302.7	288.5	274.4	288.5	302.7	306.1	346.2	399.5	426.2	472.0	563.5
135°	313.1	300.3	287.4	300.3	313.1	316.3	351.8	399.1	422.8	461.1	537.8
137.5°	326.1	313.5	300.7	313.5	326.1	329.4	360.3	401.5	422.1	454.5	519.3
140°	335.2	323.6	311.8	323.6	335.2	338.2	365.5	402.0	420.2	448.2	504.2
142.5°	341.9	331.1	320.3	331.1	341.9	344.7	369.8	403.4	420.2	444.8	493.9
145°	352.3	342.9	333.4	342.9	352.3	354.7	375.6	403.4	417.4	437.5	477.7
147.5°	364.9	355.6	346.4	355.6	364.9	367.2	383.9	406.2	417.4	433.2	464.8
150°	371.6	363.3	355.0	363.3	371.6	373.7	388.3	407.6	417.4	430.8	457.5
152.5°	376.3	370.0	363.7	370.0	376.3	377.9	391.0	408.6	417.4	428.7	451.6
155°	386.1	381.5	376.8	381.5	386.1	387.3	397.3	410.7	417.4	426.5	444.6
157.5°	395.5	390.9	386.4	390.9	395.5	396.6	403.5	412.8	417.4	424.4	438.6
160°	399.9	396.4	393.0	396.4	399.9	400.8	406.4	413.7	417.4	423.4	435.5
162.5°	404.8	402.1	399.5	402.1	404.8	405.4	409.4	414.7	417.4	422.5	432.7
165°	411.3	408.9	406.5	408.9	411.3	412.0	413.8	416.2	417.4	421.0	428.3
167.5°	415.3	414.2	413.1	414.2	415.3	415.6	417.2	419.2	420.2	422.6	427.4
170°	419.7	418.5	417.4	418.5	419.7	419.9	420.0	420.1	420.2	422.6	427.4
172.5°	420.1	419.9	419.7	419.9	420.1	420.2	420.2	420.2	420.2	422.0	425.8
175°	422.8	422.8	422.8	422.8	422.8	422.8	422.0	420.8	420.2	421.4	423.8
177.5°	422.8	422.8	422.8	422.8	422.8	422.8	422.1	421.2	420.8	421.7	423.6
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P934464

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2
2.5°	1854.9	1849.5	1856.8	1836.8	1856.8	1849.5	1854.9	1867.7	1856.8	1864.0	1871.3
5°	1627.6	1618.5	1589.4	1565.8	1589.4	1618.5	1627.6	1665.8	1684.0	1716.7	1760.4
7.5°	1454.8	1447.6	1440.3	1425.7	1440.3	1447.6	1454.8	1465.7	1483.9	1513.1	1545.8
10°	1416.6	1418.5	1429.4	1427.6	1429.4	1418.5	1416.6	1413.1	1407.6	1413.1	1433.1
12.5°	1514.8	1531.3	1591.3	1587.6	1591.3	1531.3	1514.8	1442.2	1393.1	1384.0	1387.6
15°	1627.6	1633.0	1645.8	1647.6	1645.8	1633.0	1627.6	1598.5	1451.2	1387.6	1367.5
17.5°	1638.5	1640.4	1649.5	1649.5	1649.5	1640.4	1638.5	1625.8	1576.7	1491.3	1378.5
20°	1629.5	1633.0	1651.3	1654.9	1651.3	1633.0	1629.5	1613.0	1585.8	1554.9	1469.4
22.5°	1625.8	1633.0	1647.6	1645.8	1647.6	1633.0	1625.8	1600.4	1576.7	1554.9	1520.3
25°	1607.6	1607.6	1609.5	1611.3	1609.5	1607.6	1607.6	1587.6	1540.4	1534.8	1514.8
27.5°	1569.4	1573.0	1583.9	1582.2	1583.9	1573.0	1569.4	1562.2	1511.3	1505.8	1491.3
30°	1534.8	1531.3	1522.2	1514.8	1522.2	1531.3	1534.8	1523.9	1473.1	1458.5	1462.2
32.5°	1476.7	1467.6	1458.5	1453.1	1458.5	1467.6	1476.7	1473.1	1434.8	1414.8	1418.5
35°	1407.6	1409.4	1407.6	1402.1	1407.6	1409.4	1407.6	1411.2	1387.6	1369.4	1367.5
37.5°	1358.5	1362.1	1360.3	1353.0	1360.3	1362.1	1358.5	1354.8	1322.1	1316.6	1320.3
40°	1307.5	1309.4	1307.5	1302.1	1307.5	1309.4	1307.5	1300.3	1254.9	1256.6	1269.4
42.5°	1258.4	1256.6	1251.2	1247.5	1251.2	1256.6	1258.4	1247.5	1189.3	1183.9	1207.5
45°	1202.1	1203.9	1193.0	1187.5	1193.0	1203.9	1202.1	1194.8	1134.8	1120.2	1136.6
47.5°	1145.7	1145.7	1136.6	1131.2	1136.6	1145.7	1145.7	1136.6	1073.0	1058.4	1067.5
50°	1085.7	1083.9	1071.1	1069.3	1071.1	1083.9	1085.7	1080.2	1013.0	1000.2	1000.2
52.5°	1016.6	1016.6	1018.4	1022.0	1018.4	1016.6	1016.6	1018.4	958.3	945.7	942.0
55°	956.6	958.3	971.1	974.8	971.1	958.3	956.6	956.6	902.0	889.2	882.0
57.5°	894.8	894.8	903.8	903.8	903.8	894.8	894.8	891.1	838.4	827.5	823.8
60°	823.8	827.5	834.7	832.9	834.7	827.5	823.8	820.1	774.7	767.5	754.7
62.5°	749.2	752.9	754.7	751.0	754.7	752.9	749.2	738.4	711.0	705.6	689.3
65°	671.0	674.7	676.5	672.9	676.5	674.7	671.0	665.6	645.6	636.5	621.9
67.5°	591.0	589.3	587.4	594.7	587.4	589.3	591.0	583.7	571.0	563.7	543.7
70°	509.2	509.2	507.4	511.0	507.4	509.2	509.2	503.7	496.5	491.1	472.8
72.5°	421.9	420.1	427.4	421.9	427.4	420.1	421.9	420.1	416.4	411.0	392.8
75°	336.4	340.1	336.4	341.9	336.4	340.1	336.4	338.3	336.4	332.8	320.1
77.5°	256.4	260.1	256.4	256.4	256.4	260.1	256.4	258.2	258.2	258.2	247.3
80°	181.9	180.1	180.1	178.2	180.1	180.1	181.9	181.9	183.6	180.1	176.4
82.5°	116.4	114.5	114.5	118.2	114.5	114.5	116.4	118.2	114.5	114.5	114.5
85°	63.7	65.4	61.9	61.9	61.9	65.4	63.7	60.0	63.7	63.7	61.9
87.5°	23.7	21.8	21.8	21.8	21.8	21.8	23.7	25.4	25.4	25.4	27.3
90°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	14.3	19.2	21.6	18.5
92.5°	53.9	51.8	43.1	34.6	43.1	51.8	53.9	76.4	106.4	121.4	106.6
95°	183.0	176.5	150.5	124.5	150.5	176.5	183.0	240.3	316.8	355.0	299.8
97.5°	422.4	410.0	360.7	311.3	360.7	410.0	422.4	458.7	507.0	531.2	439.2
100°	593.3	578.6	519.7	460.8	519.7	578.6	593.3	590.6	587.0	585.3	483.3
102.5°	739.1	726.5	676.1	625.6	676.1	726.5	739.1	693.0	631.4	600.6	497.1
105°	909.3	902.6	875.5	848.3	875.5	902.6	909.3	805.8	667.9	598.9	498.7
107.5°	997.8	999.5	1006.0	1012.6	1006.0	999.5	997.8	853.5	661.0	564.8	476.5
110°	1020.6	1027.6	1055.8	1084.1	1055.8	1027.6	1020.6	859.2	644.0	536.5	456.8



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CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1006.1	1016.9	1060.3	1103.6	1060.3	1016.9	1006.1	841.0	620.8	510.7	439.7
115°	957.0	972.0	1032.1	1092.3	1032.1	972.0	957.0	797.9	585.9	479.8	419.9
117.5°	889.2	905.9	972.6	1039.3	972.6	905.9	889.2	745.6	554.2	458.5	407.6
120°	843.5	859.7	924.5	989.4	924.5	859.7	843.5	712.3	537.4	449.9	403.4
122.5°	797.8	813.8	877.8	941.6	877.8	813.8	797.8	679.7	522.2	443.4	401.2
125°	737.4	752.1	811.0	869.9	811.0	752.1	737.4	637.1	503.3	436.4	399.5
127.5°	688.8	701.2	750.9	800.7	750.9	701.2	688.8	602.7	487.8	430.4	398.5
130°	658.3	669.7	715.6	761.5	715.6	669.7	658.3	581.5	479.2	428.1	399.0
132.5°	632.1	642.4	683.5	724.6	683.5	642.4	632.1	563.5	472.0	426.2	399.5
135°	595.2	604.1	639.5	675.0	639.5	604.1	595.2	537.8	461.1	422.8	399.1
137.5°	568.0	575.2	604.3	633.3	604.3	575.2	568.0	519.3	454.5	422.1	401.5
140°	546.1	552.9	580.0	607.1	580.0	552.9	546.1	504.2	448.2	420.2	402.0
142.5°	530.8	536.7	560.0	583.3	560.0	536.7	530.8	493.9	444.8	420.2	403.4
145°	507.9	512.3	530.0	547.6	530.0	512.3	507.9	477.7	437.5	417.4	403.4
147.5°	488.6	492.3	506.8	521.4	506.8	492.3	488.6	464.8	433.2	417.4	406.2
150°	477.5	480.4	492.3	504.2	492.3	480.4	477.5	457.5	430.8	417.4	407.6
152.5°	468.7	470.9	479.9	488.9	479.9	470.9	468.7	451.6	428.7	417.4	408.6
155°	458.2	459.7	465.6	471.5	465.6	459.7	458.2	444.6	426.5	417.4	410.7
157.5°	449.1	450.1	454.4	458.5	454.4	450.1	449.1	438.6	424.4	417.4	412.8
160°	444.6	445.2	447.6	449.9	447.6	445.2	444.6	435.5	423.4	417.4	413.7
162.5°	440.3	440.9	443.2	445.4	443.2	440.9	440.3	432.7	422.5	417.4	414.7
165°	433.8	434.4	436.8	439.2	436.8	434.4	433.8	428.3	421.0	417.4	416.2
167.5°	430.9	431.2	432.2	433.2	432.2	431.2	430.9	427.4	422.6	420.2	419.2
170°	430.9	430.9	430.9	430.9	430.9	430.9	430.9	427.4	422.6	420.2	420.1
172.5°	428.7	428.5	427.6	426.7	427.6	428.5	428.7	425.8	422.0	420.2	420.2
175°	425.5	425.5	425.5	425.5	425.5	425.5	425.5	423.8	421.4	420.2	420.8
177.5°	425.0	424.7	423.8	422.8	423.8	424.7	425.0	423.6	421.7	420.8	421.2
180°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1922.2	1922.2	1922.2	1922.2	1922.2
2.5°	1898.6	1907.7	1913.1	1920.4	1938.6
5°	1825.8	1860.4	1871.3	1898.6	1931.3
7.5°	1665.8	1771.2	1800.4	1865.9	1916.8
10°	1511.3	1616.7	1667.6	1822.2	1898.6
12.5°	1433.1	1494.8	1529.4	1745.8	1873.1
15°	1384.0	1427.6	1453.1	1644.0	1844.0
17.5°	1345.7	1376.6	1394.8	1543.9	1804.0
20°	1322.1	1336.6	1353.0	1471.2	1758.6
22.5°	1305.7	1296.6	1309.4	1420.3	1696.7
25°	1294.9	1260.3	1274.9	1380.3	1624.0
27.5°	1304.0	1227.5	1233.0	1344.0	1547.6
30°	1305.7	1187.5	1189.3	1305.7	1462.2
32.5°	1293.0	1145.7	1147.5	1258.4	1365.7
35°	1262.1	1096.6	1094.8	1203.9	1234.9
37.5°	1220.3	1043.9	1043.9	1143.9	1091.1
40°	1169.3	991.1	996.6	1065.7	963.9
42.5°	1107.5	934.8	942.0	962.0	869.2
45°	1040.2	880.2	885.7	812.9	796.6
47.5°	965.7	823.8	825.7	674.7	772.9
50°	876.6	765.6	758.4	578.3	771.0
52.5°	798.4	701.9	680.1	523.7	700.1
55°	722.0	634.7	587.4	481.9	649.3
57.5°	654.7	547.4	501.9	432.8	638.3
60°	592.8	461.9	427.4	380.1	585.6
62.5°	541.9	398.3	391.0	343.7	531.0
65°	487.4	354.6	352.8	312.8	451.0
67.5°	434.6	325.5	323.7	283.7	343.7
70°	378.3	294.6	291.0	252.8	254.6
72.5°	320.1	260.1	256.4	227.3	211.0
75°	261.9	220.1	218.2	198.2	171.0
77.5°	205.5	174.5	178.2	160.0	125.4
80°	147.3	127.3	131.0	114.5	94.5
82.5°	98.2	83.7	87.3	72.8	63.7
85°	54.6	47.3	49.1	38.2	29.1
87.5°	25.4	21.8	21.8	14.6	9.1
90°	12.5	8.0	7.4	5.1	2.8
92.5°	77.0	54.8	49.9	30.7	11.4
95°	189.4	106.6	97.8	62.5	27.3
97.5°	255.2	117.2	109.4	78.3	47.1
100°	279.1	126.0	118.9	90.7	62.4
102.5°	290.1	134.8	128.2	101.9	75.4
105°	298.2	147.8	142.2	119.9	97.6
107.5°	299.7	167.1	161.9	141.1	120.3
110°	297.4	177.8	173.2	154.4	135.6



TEST NUMBER: P934464

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	297.5	191.0	186.5	168.6	150.7
115°	300.3	210.5	206.4	189.9	173.4
117.5°	305.9	229.5	225.8	210.8	195.7
120°	310.4	240.6	237.0	222.9	208.8
122.5°	316.9	253.7	250.1	235.8	221.6
125°	325.7	270.4	267.1	254.1	241.2
127.5°	334.5	286.6	283.3	270.2	257.0
130°	340.9	297.3	293.8	279.7	265.6
132.5°	346.2	306.1	302.7	288.5	274.4
135°	351.8	316.3	313.1	300.3	287.4
137.5°	360.3	329.4	326.1	313.5	300.7
140°	365.5	338.2	335.2	323.6	311.8
142.5°	369.8	344.7	341.9	331.1	320.3
145°	375.6	354.7	352.3	342.9	333.4
147.5°	383.9	367.2	364.9	355.6	346.4
150°	388.3	373.7	371.6	363.3	355.0
152.5°	391.0	377.9	376.3	370.0	363.7
155°	397.3	387.3	386.1	381.5	376.8
157.5°	403.5	396.6	395.5	390.9	386.4
160°	406.4	400.8	399.9	396.4	393.0
162.5°	409.4	405.4	404.8	402.1	399.5
165°	413.8	412.0	411.3	408.9	406.5
167.5°	417.2	415.6	415.3	414.2	413.1
170°	420.0	419.9	419.7	418.5	417.4
172.5°	420.2	420.2	420.1	419.9	419.7
175°	422.0	422.8	422.8	422.8	422.8
177.5°	422.1	422.8	422.8	422.8	422.8
180°	422.8	422.8	422.8	422.8	422.8



TEST NUMBER: P934464
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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	14.65	15.66	15.47	16.50	17.55	17.47	18.48	18.29	19.32	20.37
	3H	15.14	16.04	15.97	16.89	17.97	18.83	19.73	19.66	20.59	21.66
	4H	15.33	16.19	16.18	17.05	18.13	19.28	20.13	20.13	20.99	22.08
	6H	15.46	16.25	16.32	17.12	18.22	19.57	20.36	20.43	21.22	22.32
	8H	15.47	16.22	16.34	17.10	18.20	19.65	20.40	20.52	21.28	22.38
	12H	15.44	16.16	16.32	17.04	18.16	19.69	20.40	20.57	21.28	22.41
4H	2H	15.70	16.55	16.55	17.41	18.50	17.90	18.75	18.75	19.61	20.70
	3H	16.74	17.45	17.60	18.34	19.44	19.42	20.13	20.28	21.02	22.12
	4H	17.02	17.67	17.90	18.56	19.69	19.95	20.60	20.83	21.49	22.62
	6H	17.15	17.71	18.05	18.63	19.76	20.32	20.88	21.22	21.80	22.93
	8H	17.16	17.69	18.06	18.59	19.74	20.43	20.95	21.33	21.86	23.01
	12H	17.14	17.61	18.05	18.54	19.69	20.49	20.97	21.41	21.89	23.04
8H	4H	17.48	18.01	18.38	18.92	20.06	20.09	20.61	20.98	21.52	22.66
	6H	17.75	18.18	18.68	19.14	20.28	20.53	20.96	21.45	21.91	23.05
	8H	17.80	18.18	18.73	19.12	20.28	20.68	21.06	21.62	22.01	23.17
	12H	17.79	18.12	18.72	19.06	20.27	20.78	21.12	21.72	22.06	23.27
12H	4H	17.50	17.97	18.41	18.90	20.05	20.06	20.53	20.98	21.46	22.61
	6H	17.81	18.20	18.75	19.14	20.30	20.53	20.91	21.46	21.85	23.01
	8H	17.89	18.22	18.83	19.16	20.37	20.69	21.03	21.63	21.97	23.18