

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: P934064

Luminaire Tested: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934064
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-93050-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

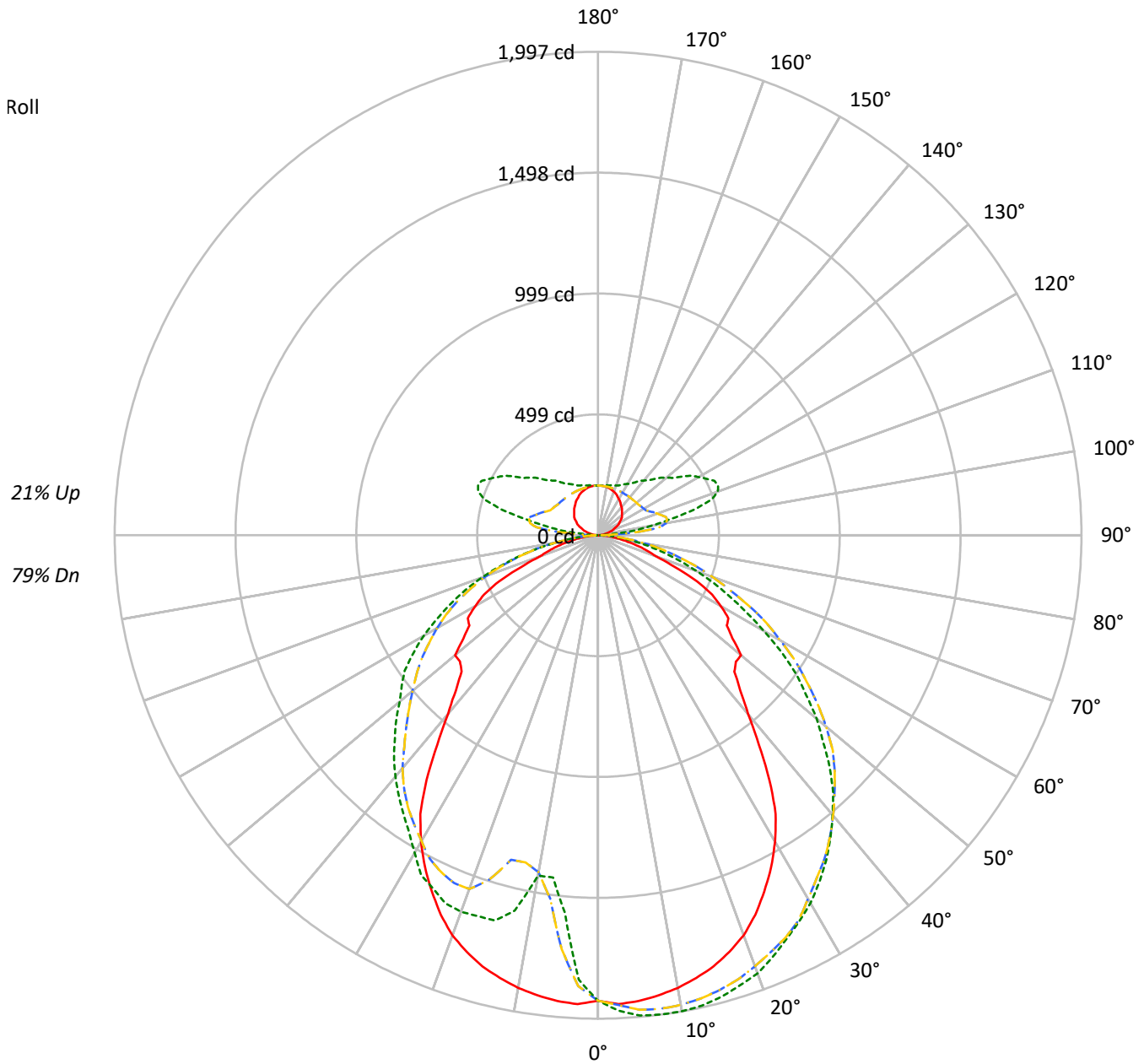
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6316.5 lumens
Efficiency: N/A
Efficacy: 108.5 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	0
RCR																		
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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	2.7
10°-20°	492.7	7.8
20°-30°	761.6	12.1
30°-40°	909.1	14.4
40°-50°	914.5	14.5
50°-60°	795.7	12.6
60°-70°	564.2	8.9
70°-80°	298.5	4.7
80°-90°	75.1	1.2
90°-100°	100.1	1.6
100°-110°	263.3	4.2
110°-120°	273.0	4.3
120°-130°	219.0	3.5
130°-140°	171.8	2.7
140°-150°	131.9	2.1
150°-160°	95.0	1.5
160°-170°	58.1	0.9
170°-180°	19.6	0.3
0°-30°	1427.7	22.6
0°-40°	2336.9	37.0
0°-60°	4047.0	64.1
0°-90°	4984.8	78.9
90°-120°	636.3	10.1
90°-150°	1159.0	18.3
90°-180°	1332.0	21.1
0°-180°	6316.5	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°	1	5	1	5	1	2
95°	13	61	13	61	13	15
105°	47	412	47	412	47	50
115°	84	531	84	531	84	83
125°	117	423	117	423	117	104
135°	140	328	140	328	140	108
145°	162	266	162	266	162	101
155°	183	229	183	229	183	84
165°	198	214	198	214	198	56
175°	206	207	206	207	206	20
180°	206	206	206	206	206	



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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°	1.4	2.5	3.6	3.9	6.1	9.0	10.5	9.3	7.0	5.2	5.2
92.5°	5.5	14.9	24.2	26.6	37.4	51.8	59.0	51.7	37.1	26.2	25.1
95°	13.2	30.4	47.5	51.8	92.0	145.6	172.4	153.9	116.7	88.9	85.8
97.5°	22.9	38.0	53.1	56.9	124.0	213.4	258.1	246.3	222.9	205.3	199.3
100°	30.4	44.0	57.8	61.2	135.6	234.8	284.4	285.2	287.0	288.2	281.1
102.5°	36.7	49.6	62.3	65.5	141.0	241.5	291.8	306.8	336.7	359.2	353.0
105°	47.4	58.3	69.1	71.9	144.9	242.3	291.0	324.5	391.6	441.9	438.6
107.5°	58.5	68.6	78.6	81.2	145.6	231.5	274.5	321.3	414.8	484.9	485.7
110°	65.9	75.1	84.2	86.4	144.5	222.0	260.7	313.0	417.6	495.9	499.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	73.2	82.0	90.6	92.8	144.5	213.6	248.1	301.6	408.6	488.9	494.1
115°	84.2	92.3	100.3	102.3	145.9	204.0	233.1	284.7	387.7	465.0	472.3
117.5°	95.2	102.4	109.7	111.5	148.6	198.0	222.8	269.3	362.3	432.1	440.1
120°	101.5	108.4	115.2	116.9	150.9	196.1	218.7	261.2	346.2	409.9	417.8
122.5°	107.6	114.6	121.5	123.2	154.0	195.0	215.5	253.7	330.3	387.7	395.5
125°	117.2	123.5	129.9	131.4	158.3	194.2	212.1	244.6	309.6	358.4	365.5
127.5°	124.9	131.2	137.7	139.2	162.5	193.6	209.1	237.0	292.9	334.8	340.8
130°	129.0	135.9	142.7	144.4	165.6	193.9	208.0	232.9	282.6	319.8	325.4
132.5°	133.3	140.2	147.0	148.8	168.2	194.2	207.1	229.3	273.8	307.2	312.1
135°	139.7	145.9	152.2	153.7	171.0	194.0	205.5	224.1	261.4	289.3	293.6
137.5°	146.2	152.3	158.5	160.0	175.1	195.2	205.2	221.0	252.5	276.0	279.5
140°	151.5	157.2	162.9	164.4	177.7	195.4	204.2	217.8	245.0	265.4	268.7
142.5°	155.6	160.9	166.2	167.5	179.7	196.0	204.2	216.1	240.1	258.0	260.8
145°	162.0	166.6	171.2	172.3	182.5	196.0	202.8	212.5	232.1	246.8	248.9
147.5°	168.3	172.8	177.3	178.4	186.6	197.4	202.8	210.5	225.8	237.4	239.2
150°	172.4	176.5	180.6	181.6	188.7	198.1	202.8	209.3	222.3	232.0	233.5
152.5°	176.7	179.8	182.9	183.6	190.1	198.6	202.8	208.3	219.4	227.8	228.9
155°	183.1	185.4	187.7	188.2	193.1	199.6	202.8	207.2	216.0	222.6	223.4
157.5°	187.8	190.0	192.2	192.7	196.1	200.6	202.8	206.2	213.1	218.2	218.8
160°	191.0	192.7	194.4	194.8	197.5	201.1	202.8	205.7	211.6	216.0	216.3
162.5°	194.1	195.4	196.7	197.0	199.0	201.5	202.8	205.3	210.2	214.0	214.3
165°	197.6	198.7	199.9	200.1	201.1	202.3	202.8	204.6	208.1	210.8	211.1
167.5°	200.7	201.3	201.8	202.0	202.7	203.7	204.2	205.4	207.7	209.4	209.5
170°	202.8	203.4	203.9	204.0	204.1	204.2	204.2	205.4	207.7	209.4	209.4
172.5°	203.9	204.0	204.2	204.2	204.2	204.2	204.2	205.1	206.9	208.3	208.2
175°	205.5	205.5	205.5	205.5	205.0	204.5	204.2	204.7	205.9	206.8	206.8
177.5°	205.5	205.5	205.5	205.5	205.1	204.6	204.5	204.9	205.8	206.6	206.5
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



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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°	5.2	5.2	5.2	5.2	5.2	7.0	9.3	10.5	9.0	6.1	3.9
92.5°	20.9	16.8	20.9	25.1	26.2	37.1	51.7	59.0	51.8	37.4	26.6
95°	73.1	60.6	73.1	85.8	88.9	116.7	153.9	172.4	145.6	92.0	51.8
97.5°	175.3	151.2	175.3	199.3	205.3	222.9	246.3	258.1	213.4	124.0	56.9
100°	252.5	223.9	252.5	281.1	288.2	287.0	285.2	284.4	234.8	135.6	61.2
102.5°	328.5	304.0	328.5	353.0	359.2	336.7	306.8	291.8	241.5	141.0	65.5
105°	425.4	412.2	425.4	438.6	441.9	391.6	324.5	291.0	242.3	144.9	71.9
107.5°	488.9	492.1	488.9	485.7	484.9	414.8	321.3	274.5	231.5	145.6	81.2
110°	513.1	526.8	513.1	499.3	495.9	417.6	313.0	260.7	222.0	144.5	86.4



TEST NUMBER: P934064

CATALOG NUMBER: SQ4-FA-025U-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°	515.2	536.3	515.2	494.1	488.9	408.6	301.6	248.1	213.6	144.5	92.8
115°	501.5	530.8	501.5	472.3	465.0	387.7	284.7	233.1	204.0	145.9	102.3
117.5°	472.6	505.0	472.6	440.1	432.1	362.3	269.3	222.8	198.0	148.6	111.5
120°	449.3	480.8	449.3	417.8	409.9	346.2	261.2	218.7	196.1	150.9	116.9
122.5°	426.5	457.6	426.5	395.5	387.7	330.3	253.7	215.5	195.0	154.0	123.2
125°	394.1	422.7	394.1	365.5	358.4	309.6	244.6	212.1	194.2	158.3	131.4
127.5°	365.0	389.1	365.0	340.8	334.8	292.9	237.0	209.1	193.6	162.5	139.2
130°	347.7	370.0	347.7	325.4	319.8	282.6	232.9	208.0	193.9	165.6	144.4
132.5°	332.1	352.1	332.1	312.1	307.2	273.8	229.3	207.1	194.2	168.2	148.8
135°	310.7	328.0	310.7	293.6	289.3	261.4	224.1	205.5	194.0	171.0	153.7
137.5°	293.7	307.7	293.7	279.5	276.0	252.5	221.0	205.2	195.2	175.1	160.0
140°	281.8	295.0	281.8	268.7	265.4	245.0	217.8	204.2	195.4	177.7	164.4
142.5°	272.1	283.5	272.1	260.8	258.0	240.1	216.1	204.2	196.0	179.7	167.5
145°	257.5	266.1	257.5	248.9	246.8	232.1	212.5	202.8	196.0	182.5	172.3
147.5°	246.3	253.4	246.3	239.2	237.4	225.8	210.5	202.8	197.4	186.6	178.4
150°	239.2	245.0	239.2	233.5	232.0	222.3	209.3	202.8	198.1	188.7	181.6
152.5°	233.2	237.6	233.2	228.9	227.8	219.4	208.3	202.8	198.6	190.1	183.6
155°	226.2	229.1	226.2	223.4	222.6	216.0	207.2	202.8	199.6	193.1	188.2
157.5°	220.8	222.8	220.8	218.8	218.2	213.1	206.2	202.8	200.6	196.1	192.7
160°	217.5	218.7	217.5	216.3	216.0	211.6	205.7	202.8	201.1	197.5	194.8
162.5°	215.4	216.5	215.4	214.3	214.0	210.2	205.3	202.8	201.5	199.0	197.0
165°	212.3	213.5	212.3	211.1	210.8	208.1	204.6	202.8	202.3	201.1	200.1
167.5°	210.1	210.5	210.1	209.5	209.4	207.7	205.4	204.2	203.7	202.7	202.0
170°	209.4	209.4	209.4	209.4	209.4	207.7	205.4	204.2	204.2	204.1	204.0
172.5°	207.8	207.4	207.8	208.2	208.3	206.9	205.1	204.2	204.2	204.2	204.2
175°	206.8	206.8	206.8	206.8	206.8	205.9	204.7	204.2	204.5	205.0	205.5
177.5°	205.9	205.5	205.9	206.5	206.6	205.8	204.9	204.5	204.6	205.1	205.5
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



TEST NUMBER: P934064

CATALOG NUMBER: SQ4-FA-025U-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°	3.6	2.5	1.4	2.5	3.6	3.9	6.1	9.0	10.5	9.3	7.0
92.5°	24.2	14.9	5.5	14.9	24.2	26.6	37.4	51.8	59.0	51.7	37.1
95°	47.5	30.4	13.2	30.4	47.5	51.8	92.0	145.6	172.4	153.9	116.7
97.5°	53.1	38.0	22.9	38.0	53.1	56.9	124.0	213.4	258.1	246.3	222.9
100°	57.8	44.0	30.4	44.0	57.8	61.2	135.6	234.8	284.4	285.2	287.0
102.5°	62.3	49.6	36.7	49.6	62.3	65.5	141.0	241.5	291.8	306.8	336.7
105°	69.1	58.3	47.4	58.3	69.1	71.9	144.9	242.3	291.0	324.5	391.6
107.5°	78.6	68.6	58.5	68.6	78.6	81.2	145.6	231.5	274.5	321.3	414.8
110°	84.2	75.1	65.9	75.1	84.2	86.4	144.5	222.0	260.7	313.0	417.6



TEST NUMBER: P934064

CATALOG NUMBER: SQ4-FA-025U-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°	90.6	82.0	73.2	82.0	90.6	92.8	144.5	213.6	248.1	301.6	408.6
115°	100.3	92.3	84.2	92.3	100.3	102.3	145.9	204.0	233.1	284.7	387.7
117.5°	109.7	102.4	95.2	102.4	109.7	111.5	148.6	198.0	222.8	269.3	362.3
120°	115.2	108.4	101.5	108.4	115.2	116.9	150.9	196.1	218.7	261.2	346.2
122.5°	121.5	114.6	107.6	114.6	121.5	123.2	154.0	195.0	215.5	253.7	330.3
125°	129.9	123.5	117.2	123.5	129.9	131.4	158.3	194.2	212.1	244.6	309.6
127.5°	137.7	131.2	124.9	131.2	137.7	139.2	162.5	193.6	209.1	237.0	292.9
130°	142.7	135.9	129.0	135.9	142.7	144.4	165.6	193.9	208.0	232.9	282.6
132.5°	147.0	140.2	133.3	140.2	147.0	148.8	168.2	194.2	207.1	229.3	273.8
135°	152.2	145.9	139.7	145.9	152.2	153.7	171.0	194.0	205.5	224.1	261.4
137.5°	158.5	152.3	146.2	152.3	158.5	160.0	175.1	195.2	205.2	221.0	252.5
140°	162.9	157.2	151.5	157.2	162.9	164.4	177.7	195.4	204.2	217.8	245.0
142.5°	166.2	160.9	155.6	160.9	166.2	167.5	179.7	196.0	204.2	216.1	240.1
145°	171.2	166.6	162.0	166.6	171.2	172.3	182.5	196.0	202.8	212.5	232.1
147.5°	177.3	172.8	168.3	172.8	177.3	178.4	186.6	197.4	202.8	210.5	225.8
150°	180.6	176.5	172.4	176.5	180.6	181.6	188.7	198.1	202.8	209.3	222.3
152.5°	182.9	179.8	176.7	179.8	182.9	183.6	190.1	198.6	202.8	208.3	219.4
155°	187.7	185.4	183.1	185.4	187.7	188.2	193.1	199.6	202.8	207.2	216.0
157.5°	192.2	190.0	187.8	190.0	192.2	192.7	196.1	200.6	202.8	206.2	213.1
160°	194.4	192.7	191.0	192.7	194.4	194.8	197.5	201.1	202.8	205.7	211.6
162.5°	196.7	195.4	194.1	195.4	196.7	197.0	199.0	201.5	202.8	205.3	210.2
165°	199.9	198.7	197.6	198.7	199.9	200.1	201.1	202.3	202.8	204.6	208.1
167.5°	201.8	201.3	200.7	201.3	201.8	202.0	202.7	203.7	204.2	205.4	207.7
170°	203.9	203.4	202.8	203.4	203.9	204.0	204.1	204.2	204.2	205.4	207.7
172.5°	204.2	204.0	203.9	204.0	204.2	204.2	204.2	204.2	204.2	205.1	206.9
175°	205.5	205.5	205.5	205.5	205.5	205.5	205.0	204.5	204.2	204.7	205.9
177.5°	205.5	205.5	205.5	205.5	205.5	205.5	205.1	204.6	204.5	204.9	205.8
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



TEST NUMBER: P934064

CATALOG NUMBER: SQ4-FA-025U-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°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.0	9.3	10.5	9.0
92.5°	26.2	25.1	20.9	16.8	20.9	25.1	26.2	37.1	51.7	59.0	51.8
95°	88.9	85.8	73.1	60.6	73.1	85.8	88.9	116.7	153.9	172.4	145.6
97.5°	205.3	199.3	175.3	151.2	175.3	199.3	205.3	222.9	246.3	258.1	213.4
100°	288.2	281.1	252.5	223.9	252.5	281.1	288.2	287.0	285.2	284.4	234.8
102.5°	359.2	353.0	328.5	304.0	328.5	353.0	359.2	336.7	306.8	291.8	241.5
105°	441.9	438.6	425.4	412.2	425.4	438.6	441.9	391.6	324.5	291.0	242.3
107.5°	484.9	485.7	488.9	492.1	488.9	485.7	484.9	414.8	321.3	274.5	231.5
110°	495.9	499.3	513.1	526.8	513.1	499.3	495.9	417.6	313.0	260.7	222.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	488.9	494.1	515.2	536.3	515.2	494.1	488.9	408.6	301.6	248.1	213.6
115°	465.0	472.3	501.5	530.8	501.5	472.3	465.0	387.7	284.7	233.1	204.0
117.5°	432.1	440.1	472.6	505.0	472.6	440.1	432.1	362.3	269.3	222.8	198.0
120°	409.9	417.8	449.3	480.8	449.3	417.8	409.9	346.2	261.2	218.7	196.1
122.5°	387.7	395.5	426.5	457.6	426.5	395.5	387.7	330.3	253.7	215.5	195.0
125°	358.4	365.5	394.1	422.7	394.1	365.5	358.4	309.6	244.6	212.1	194.2
127.5°	334.8	340.8	365.0	389.1	365.0	340.8	334.8	292.9	237.0	209.1	193.6
130°	319.8	325.4	347.7	370.0	347.7	325.4	319.8	282.6	232.9	208.0	193.9
132.5°	307.2	312.1	332.1	352.1	332.1	312.1	307.2	273.8	229.3	207.1	194.2
135°	289.3	293.6	310.7	328.0	310.7	293.6	289.3	261.4	224.1	205.5	194.0
137.5°	276.0	279.5	293.7	307.7	293.7	279.5	276.0	252.5	221.0	205.2	195.2
140°	265.4	268.7	281.8	295.0	281.8	268.7	265.4	245.0	217.8	204.2	195.4
142.5°	258.0	260.8	272.1	283.5	272.1	260.8	258.0	240.1	216.1	204.2	196.0
145°	246.8	248.9	257.5	266.1	257.5	248.9	246.8	232.1	212.5	202.8	196.0
147.5°	237.4	239.2	246.3	253.4	246.3	239.2	237.4	225.8	210.5	202.8	197.4
150°	232.0	233.5	239.2	245.0	239.2	233.5	232.0	222.3	209.3	202.8	198.1
152.5°	227.8	228.9	233.2	237.6	233.2	228.9	227.8	219.4	208.3	202.8	198.6
155°	222.6	223.4	226.2	229.1	226.2	223.4	222.6	216.0	207.2	202.8	199.6
157.5°	218.2	218.8	220.8	222.8	220.8	218.8	218.2	213.1	206.2	202.8	200.6
160°	216.0	216.3	217.5	218.7	217.5	216.3	216.0	211.6	205.7	202.8	201.1
162.5°	214.0	214.3	215.4	216.5	215.4	214.3	214.0	210.2	205.3	202.8	201.5
165°	210.8	211.1	212.3	213.5	212.3	211.1	210.8	208.1	204.6	202.8	202.3
167.5°	209.4	209.5	210.1	210.5	210.1	209.5	209.4	207.7	205.4	204.2	203.7
170°	209.4	209.4	209.4	209.4	209.4	209.4	209.4	207.7	205.4	204.2	204.2
172.5°	208.3	208.2	207.8	207.4	207.8	208.2	208.3	206.9	205.1	204.2	204.2
175°	206.8	206.8	206.8	206.8	206.8	206.8	206.8	205.9	204.7	204.2	204.5
177.5°	206.6	206.5	205.9	205.5	205.9	206.5	206.6	205.8	204.9	204.5	204.6
180°	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5	205.5



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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°	6.1	3.9	3.6	2.5	1.4
92.5°	37.4	26.6	24.2	14.9	5.5
95°	92.0	51.8	47.5	30.4	13.2
97.5°	124.0	56.9	53.1	38.0	22.9
100°	135.6	61.2	57.8	44.0	30.4
102.5°	141.0	65.5	62.3	49.6	36.7
105°	144.9	71.9	69.1	58.3	47.4
107.5°	145.6	81.2	78.6	68.6	58.5
110°	144.5	86.4	84.2	75.1	65.9



TEST NUMBER: P934064

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	144.5	92.8	90.6	82.0	73.2
115°	145.9	102.3	100.3	92.3	84.2
117.5°	148.6	111.5	109.7	102.4	95.2
120°	150.9	116.9	115.2	108.4	101.5
122.5°	154.0	123.2	121.5	114.6	107.6
125°	158.3	131.4	129.9	123.5	117.2
127.5°	162.5	139.2	137.7	131.2	124.9
130°	165.6	144.4	142.7	135.9	129.0
132.5°	168.2	148.8	147.0	140.2	133.3
135°	171.0	153.7	152.2	145.9	139.7
137.5°	175.1	160.0	158.5	152.3	146.2
140°	177.7	164.4	162.9	157.2	151.5
142.5°	179.7	167.5	166.2	160.9	155.6
145°	182.5	172.3	171.2	166.6	162.0
147.5°	186.6	178.4	177.3	172.8	168.3
150°	188.7	181.6	180.6	176.5	172.4
152.5°	190.1	183.6	182.9	179.8	176.7
155°	193.1	188.2	187.7	185.4	183.1
157.5°	196.1	192.7	192.2	190.0	187.8
160°	197.5	194.8	194.4	192.7	191.0
162.5°	199.0	197.0	196.7	195.4	194.1
165°	201.1	200.1	199.9	198.7	197.6
167.5°	202.7	202.0	201.8	201.3	200.7
170°	204.1	204.0	203.9	203.4	202.8
172.5°	204.2	204.2	204.2	204.0	203.9
175°	205.0	205.5	205.5	205.5	205.5
177.5°	205.1	205.5	205.5	205.5	205.5
180°	205.5	205.5	205.5	205.5	205.5



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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	15.74	16.94	16.40	17.62	18.40	18.56	19.76	19.22	20.44	21.23
	3H	16.24	17.32	16.92	18.01	18.83	19.93	21.01	20.61	21.70	22.52
	4H	16.45	17.46	17.14	18.16	19.00	20.39	21.41	21.09	22.11	22.94
	6H	16.58	17.52	17.29	18.23	19.08	20.69	21.63	21.40	22.34	23.19
	8H	16.59	17.49	17.31	18.22	19.07	20.77	21.67	21.49	22.40	23.25
	12H	16.58	17.43	17.30	18.15	19.03	20.82	21.68	21.55	22.40	23.28
4H	2H	16.81	17.83	17.51	18.53	19.36	19.01	20.03	19.71	20.73	21.56
	3H	17.87	18.71	18.58	19.45	20.30	20.55	21.39	21.26	22.13	22.98
	4H	18.16	18.93	18.89	19.67	20.55	21.09	21.86	21.82	22.60	23.48
	6H	18.30	18.97	19.05	19.73	20.62	21.47	22.14	22.22	22.90	23.79
	8H	18.32	18.94	19.07	19.70	20.60	21.58	22.21	22.34	22.97	23.87
	12H	18.30	18.86	19.07	19.64	20.55	21.66	22.22	22.43	23.00	23.91
8H	4H	18.64	19.26	19.39	20.02	20.92	21.24	21.86	21.99	22.62	23.53
	6H	18.91	19.43	19.69	20.23	21.14	21.69	22.20	22.47	23.01	23.91
	8H	18.96	19.42	19.75	20.22	21.14	21.84	22.30	22.64	23.11	24.03
	12H	18.96	19.36	19.75	20.16	21.14	21.96	22.36	22.75	23.15	24.13
12H	4H	18.66	19.22	19.43	20.00	20.91	21.22	21.78	21.99	22.56	23.47
	6H	18.98	19.44	19.77	20.24	21.16	21.69	22.15	22.48	22.95	23.87
	8H	19.06	19.46	19.85	20.26	21.24	21.86	22.27	22.66	23.06	24.04