

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: P934864

Luminaire Tested: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934864
REPORT IS A COMBINATION OF REPORTS P933715 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-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: -

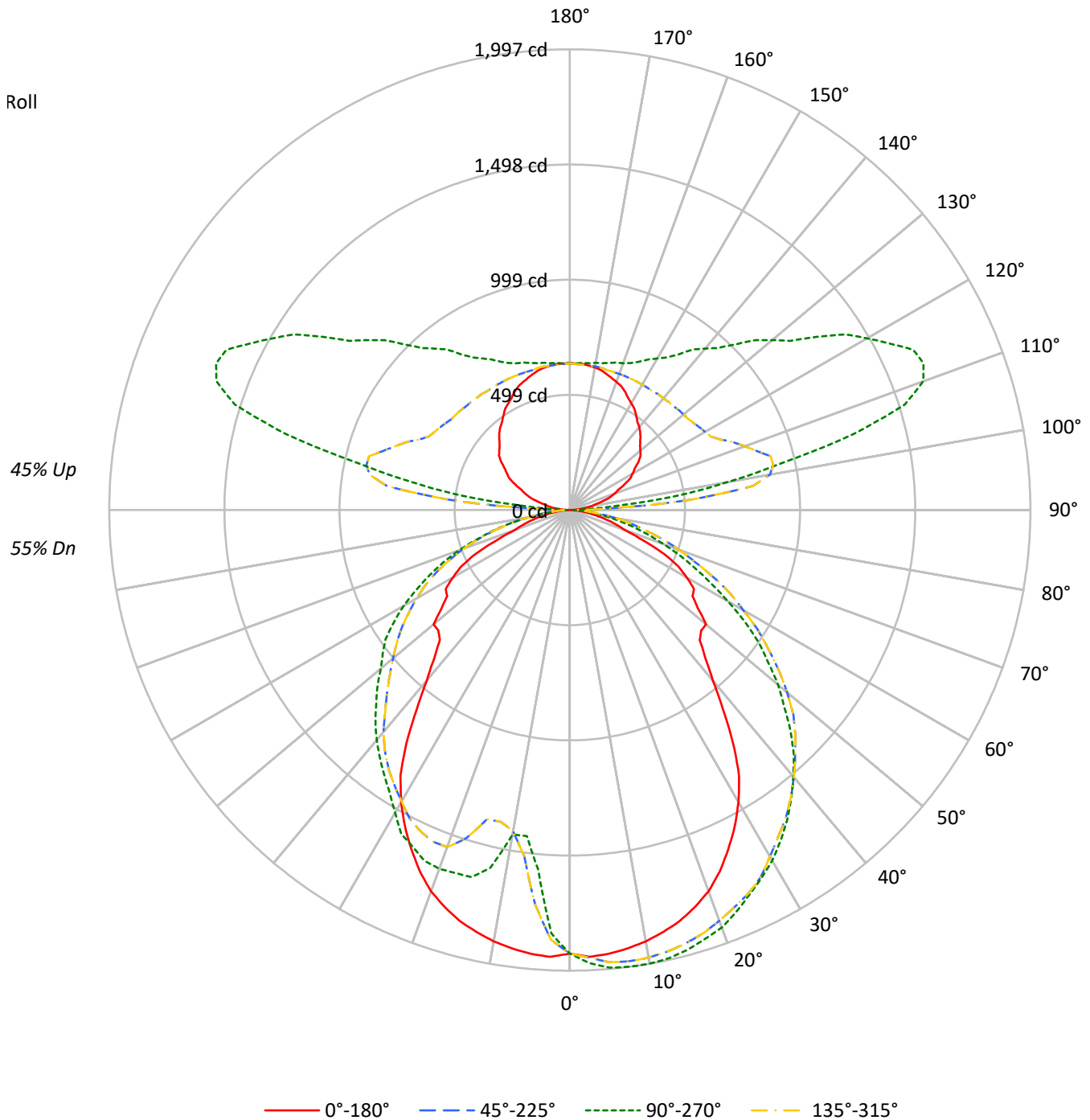
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9108.1 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 76.8
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	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

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	1.9
10°-20°	492.7	5.4
20°-30°	761.6	8.4
30°-40°	909.1	10.0
40°-50°	914.5	10.0
50°-60°	795.7	8.7
60°-70°	564.2	6.2
70°-80°	298.5	3.3
80°-90°	76.8	0.8
90°-100°	309.9	3.4
100°-110°	814.8	8.9
110°-120°	844.9	9.3
120°-130°	677.7	7.4
130°-140°	531.7	5.8
140°-150°	408.1	4.5
150°-160°	293.9	3.2
160°-170°	179.8	2.0
170°-180°	60.8	0.7
0°-30°	1427.7	15.7
0°-40°	2336.9	25.7
0°-60°	4047.0	44.4
0°-90°	4986.4	54.7
90°-120°	1969.6	21.6
90°-150°	3587.2	39.4
90°-180°	4122.0	45.3
0°-180°	9108.1	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°	4	16	4	16	4	5
95°	41	187	41	187	41	45
105°	147	1276	147	1276	147	156
115°	261	1643	261	1643	261	257
125°	363	1308	363	1308	363	322
135°	432	1015	432	1015	432	334
145°	501	824	501	824	501	314
155°	567	709	567	709	567	260
165°	612	661	612	661	612	173
175°	636	640	636	640	636	60
180°	636	636	636	636	636	



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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°	4.2	7.6	11.1	11.9	18.7	27.8	32.4	28.8	21.7	16.2	16.2
92.5°	17.1	46.1	75.1	82.3	115.7	160.3	182.6	160.0	114.9	81.0	77.8
95°	40.9	94.1	147.1	160.4	284.9	450.9	533.8	476.4	361.4	275.2	265.5
97.5°	70.8	117.6	164.5	176.2	383.8	660.5	798.9	762.5	689.9	635.4	616.8
100°	93.9	136.4	178.9	189.5	419.8	726.8	880.3	883.0	888.3	892.3	870.2
102.5°	113.5	153.2	192.8	202.7	436.3	747.6	903.4	949.6	1042.2	1111.6	1092.6
105°	146.8	180.4	214.0	222.4	448.5	750.0	900.8	1004.5	1212.0	1367.6	1357.5
107.5°	181.0	212.3	243.6	251.4	450.8	716.6	849.6	994.3	1283.8	1500.8	1503.3
110°	204.0	232.3	260.4	267.5	447.3	687.1	806.9	968.7	1292.3	1534.9	1545.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	226.6	253.5	280.4	287.1	447.5	661.2	768.1	933.7	1264.8	1513.1	1529.4
115°	260.7	285.6	310.4	316.6	451.6	631.6	721.6	881.1	1200.1	1439.3	1461.9
117.5°	294.4	317.0	339.5	345.2	460.0	613.0	689.6	833.5	1121.4	1337.4	1362.4
120°	314.0	335.3	356.5	361.8	466.8	606.8	676.8	808.3	1071.3	1268.6	1293.0
122.5°	333.3	354.7	376.2	381.5	476.7	603.6	667.0	785.4	1022.2	1199.9	1223.9
125°	362.7	382.2	401.8	406.6	489.9	600.8	656.3	756.9	958.2	1109.0	1131.2
127.5°	386.6	406.4	426.0	430.9	503.1	599.3	647.3	733.7	906.5	1036.1	1054.8
130°	399.4	420.7	441.9	447.2	512.8	600.3	643.9	720.8	874.7	990.0	1007.3
132.5°	412.6	433.9	455.1	460.4	520.6	600.8	640.9	709.7	847.5	950.7	966.1
135°	432.2	451.6	471.0	475.8	529.1	600.3	635.8	693.4	808.8	895.2	908.5
137.5°	452.3	471.4	490.6	495.4	541.9	603.9	635.0	683.7	781.1	854.3	865.2
140°	468.9	486.6	504.3	508.7	549.8	604.6	631.9	674.0	758.3	821.4	831.6
142.5°	481.8	498.1	514.5	518.5	556.3	606.7	631.9	668.9	742.9	798.4	807.2
145°	501.4	515.7	529.8	533.4	564.8	606.8	627.7	658.0	718.5	763.8	770.4
147.5°	521.0	534.8	548.7	552.2	577.3	610.9	627.7	651.5	699.1	734.8	740.3
150°	533.8	546.3	558.9	562.0	583.9	613.1	627.7	647.8	688.0	718.2	722.7
152.5°	547.0	556.6	566.0	568.4	588.2	614.5	627.7	644.9	679.2	705.0	708.4
155°	566.7	573.7	580.7	582.5	597.5	617.6	627.7	641.4	668.7	689.2	691.4
157.5°	581.2	588.1	594.8	596.6	607.0	620.8	627.7	638.3	659.5	675.5	677.1
160°	591.0	596.3	601.6	602.9	611.2	622.2	627.7	636.8	655.0	668.6	669.6
162.5°	600.8	604.9	608.8	609.8	615.8	623.8	627.7	635.4	650.7	662.3	663.1
165°	611.5	615.1	618.7	619.6	622.3	625.9	627.7	633.2	644.2	652.5	653.4
167.5°	621.3	623.0	624.7	625.1	627.4	630.5	631.9	635.5	642.8	648.2	648.5
170°	627.7	629.4	631.1	631.6	631.6	631.8	631.9	635.5	642.8	648.2	648.2
172.5°	631.1	631.5	631.8	631.9	631.9	631.9	631.9	634.8	640.5	644.8	644.4
175°	635.8	635.8	635.8	635.8	634.5	632.8	631.9	633.8	637.3	640.1	640.1
177.5°	635.8	635.8	635.8	635.8	634.8	633.5	632.8	634.3	637.2	639.3	638.9
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



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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°	16.2	16.2	16.2	16.2	16.2	21.7	28.8	32.4	27.8	18.7	11.9
92.5°	64.9	52.0	64.9	77.8	81.0	114.9	160.0	182.6	160.3	115.7	82.3
95°	226.4	187.3	226.4	265.5	275.2	361.4	476.4	533.8	450.9	284.9	160.4
97.5°	542.4	468.1	542.4	616.8	635.4	689.9	762.5	798.9	660.5	383.8	176.2
100°	781.5	693.0	781.5	870.2	892.3	888.3	883.0	880.3	726.8	419.8	189.5
102.5°	1016.8	940.9	1016.8	1092.6	1111.6	1042.2	949.6	903.4	747.6	436.3	202.7
105°	1316.6	1275.9	1316.6	1357.5	1367.6	1212.0	1004.5	900.8	750.0	448.5	222.4
107.5°	1513.1	1522.9	1513.1	1503.3	1500.8	1283.8	994.3	849.6	716.6	450.8	251.4
110°	1588.0	1630.5	1588.0	1545.6	1534.9	1292.3	968.7	806.9	687.1	447.3	267.5



TEST NUMBER: P934864

CATALOG NUMBER: SQ4-FA-075U-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°	1594.7	1659.9	1594.7	1529.4	1513.1	1264.8	933.7	768.1	661.2	447.5	287.1
115°	1552.4	1642.9	1552.4	1461.9	1439.3	1200.1	881.1	721.6	631.6	451.6	316.6
117.5°	1462.7	1563.0	1462.7	1362.4	1337.4	1121.4	833.5	689.6	613.0	460.0	345.2
120°	1390.5	1488.0	1390.5	1293.0	1268.6	1071.3	808.3	676.8	606.8	466.8	361.8
122.5°	1320.1	1416.3	1320.1	1223.9	1199.9	1022.2	785.4	667.0	603.6	476.7	381.5
125°	1219.8	1308.4	1219.8	1131.2	1109.0	958.2	756.9	656.3	600.8	489.9	406.6
127.5°	1129.5	1204.2	1129.5	1054.8	1036.1	906.5	733.7	647.3	599.3	503.1	430.9
130°	1076.3	1145.3	1076.3	1007.3	990.0	874.7	720.8	643.9	600.3	512.8	447.2
132.5°	1028.0	1089.9	1028.0	966.1	950.7	847.5	709.7	640.9	600.8	520.6	460.4
135°	961.8	1015.2	961.8	908.5	895.2	808.8	693.4	635.8	600.3	529.1	475.8
137.5°	908.8	952.5	908.8	865.2	854.3	781.1	683.7	635.0	603.9	541.9	495.4
140°	872.5	913.2	872.5	831.6	821.4	758.3	674.0	631.9	604.6	549.8	508.7
142.5°	842.3	877.3	842.3	807.2	798.4	742.9	668.9	631.9	606.7	556.3	518.5
145°	797.0	823.5	797.0	770.4	763.8	718.5	658.0	627.7	606.8	564.8	533.4
147.5°	762.2	784.3	762.2	740.3	734.8	699.1	651.5	627.7	610.9	577.3	552.2
150°	740.5	758.3	740.5	722.7	718.2	688.0	647.8	627.7	613.1	583.9	562.0
152.5°	721.8	735.3	721.8	708.4	705.0	679.2	644.9	627.7	614.5	588.2	568.4
155°	700.3	709.2	700.3	691.4	689.2	668.7	641.4	627.7	617.6	597.5	582.5
157.5°	683.3	689.6	683.3	677.1	675.5	659.5	638.3	627.7	620.8	607.0	596.6
160°	673.1	676.8	673.1	669.6	668.6	655.0	636.8	627.7	622.2	611.2	602.9
162.5°	666.5	669.9	666.5	663.1	662.3	650.7	635.4	627.7	623.8	615.8	609.8
165°	657.0	660.6	657.0	653.4	652.5	644.2	633.2	627.7	625.9	622.3	619.6
167.5°	650.1	651.6	650.1	648.5	648.2	642.8	635.5	631.9	630.5	627.4	625.1
170°	648.2	648.2	648.2	648.2	648.2	642.8	635.5	631.9	631.8	631.6	631.6
172.5°	643.1	641.7	643.1	644.4	644.8	640.5	634.8	631.9	631.9	631.9	631.9
175°	640.1	640.1	640.1	640.1	640.1	637.3	633.8	631.9	632.8	634.5	635.8
177.5°	637.3	635.8	637.3	638.9	639.3	637.2	634.3	632.8	633.5	634.8	635.8
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



TEST NUMBER: P934864

CATALOG NUMBER: SQ4-FA-075U-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°	11.1	7.6	4.2	7.6	11.1	11.9	18.7	27.8	32.4	28.8	21.7
92.5°	75.1	46.1	17.1	46.1	75.1	82.3	115.7	160.3	182.6	160.0	114.9
95°	147.1	94.1	40.9	94.1	147.1	160.4	284.9	450.9	533.8	476.4	361.4
97.5°	164.5	117.6	70.8	117.6	164.5	176.2	383.8	660.5	798.9	762.5	689.9
100°	178.9	136.4	93.9	136.4	178.9	189.5	419.8	726.8	880.3	883.0	888.3
102.5°	192.8	153.2	113.5	153.2	192.8	202.7	436.3	747.6	903.4	949.6	1042.2
105°	214.0	180.4	146.8	180.4	214.0	222.4	448.5	750.0	900.8	1004.5	1212.0
107.5°	243.6	212.3	181.0	212.3	243.6	251.4	450.8	716.6	849.6	994.3	1283.8
110°	260.4	232.3	204.0	232.3	260.4	267.5	447.3	687.1	806.9	968.7	1292.3



TEST NUMBER: P934864

CATALOG NUMBER: SQ4-FA-075U-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°	280.4	253.5	226.6	253.5	280.4	287.1	447.5	661.2	768.1	933.7	1264.8
115°	310.4	285.6	260.7	285.6	310.4	316.6	451.6	631.6	721.6	881.1	1200.1
117.5°	339.5	317.0	294.4	317.0	339.5	345.2	460.0	613.0	689.6	833.5	1121.4
120°	356.5	335.3	314.0	335.3	356.5	361.8	466.8	606.8	676.8	808.3	1071.3
122.5°	376.2	354.7	333.3	354.7	376.2	381.5	476.7	603.6	667.0	785.4	1022.2
125°	401.8	382.2	362.7	382.2	401.8	406.6	489.9	600.8	656.3	756.9	958.2
127.5°	426.0	406.4	386.6	406.4	426.0	430.9	503.1	599.3	647.3	733.7	906.5
130°	441.9	420.7	399.4	420.7	441.9	447.2	512.8	600.3	643.9	720.8	874.7
132.5°	455.1	433.9	412.6	433.9	455.1	460.4	520.6	600.8	640.9	709.7	847.5
135°	471.0	451.6	432.2	451.6	471.0	475.8	529.1	600.3	635.8	693.4	808.8
137.5°	490.6	471.4	452.3	471.4	490.6	495.4	541.9	603.9	635.0	683.7	781.1
140°	504.3	486.6	468.9	486.6	504.3	508.7	549.8	604.6	631.9	674.0	758.3
142.5°	514.5	498.1	481.8	498.1	514.5	518.5	556.3	606.7	631.9	668.9	742.9
145°	529.8	515.7	501.4	515.7	529.8	533.4	564.8	606.8	627.7	658.0	718.5
147.5°	548.7	534.8	521.0	534.8	548.7	552.2	577.3	610.9	627.7	651.5	699.1
150°	558.9	546.3	533.8	546.3	558.9	562.0	583.9	613.1	627.7	647.8	688.0
152.5°	566.0	556.6	547.0	556.6	566.0	568.4	588.2	614.5	627.7	644.9	679.2
155°	580.7	573.7	566.7	573.7	580.7	582.5	597.5	617.6	627.7	641.4	668.7
157.5°	594.8	588.1	581.2	588.1	594.8	596.6	607.0	620.8	627.7	638.3	659.5
160°	601.6	596.3	591.0	596.3	601.6	602.9	611.2	622.2	627.7	636.8	655.0
162.5°	608.8	604.9	600.8	604.9	608.8	609.8	615.8	623.8	627.7	635.4	650.7
165°	618.7	615.1	611.5	615.1	618.7	619.6	622.3	625.9	627.7	633.2	644.2
167.5°	624.7	623.0	621.3	623.0	624.7	625.1	627.4	630.5	631.9	635.5	642.8
170°	631.1	629.4	627.7	629.4	631.1	631.6	631.6	631.8	631.9	635.5	642.8
172.5°	631.8	631.5	631.1	631.5	631.8	631.9	631.9	631.9	631.9	634.8	640.5
175°	635.8	635.8	635.8	635.8	635.8	635.8	634.5	632.8	631.9	633.8	637.3
177.5°	635.8	635.8	635.8	635.8	635.8	635.8	634.8	633.5	632.8	634.3	637.2
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



TEST NUMBER: P934864

CATALOG NUMBER: SQ4-FA-075U-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°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	21.7	28.8	32.4	27.8
92.5°	81.0	77.8	64.9	52.0	64.9	77.8	81.0	114.9	160.0	182.6	160.3
95°	275.2	265.5	226.4	187.3	226.4	265.5	275.2	361.4	476.4	533.8	450.9
97.5°	635.4	616.8	542.4	468.1	542.4	616.8	635.4	689.9	762.5	798.9	660.5
100°	892.3	870.2	781.5	693.0	781.5	870.2	892.3	888.3	883.0	880.3	726.8
102.5°	1111.6	1092.6	1016.8	940.9	1016.8	1092.6	1111.6	1042.2	949.6	903.4	747.6
105°	1367.6	1357.5	1316.6	1275.9	1316.6	1357.5	1367.6	1212.0	1004.5	900.8	750.0
107.5°	1500.8	1503.3	1513.1	1522.9	1513.1	1503.3	1500.8	1283.8	994.3	849.6	716.6
110°	1534.9	1545.6	1588.0	1630.5	1588.0	1545.6	1534.9	1292.3	968.7	806.9	687.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1513.1	1529.4	1594.7	1659.9	1594.7	1529.4	1513.1	1264.8	933.7	768.1	661.2
115°	1439.3	1461.9	1552.4	1642.9	1552.4	1461.9	1439.3	1200.1	881.1	721.6	631.6
117.5°	1337.4	1362.4	1462.7	1563.0	1462.7	1362.4	1337.4	1121.4	833.5	689.6	613.0
120°	1268.6	1293.0	1390.5	1488.0	1390.5	1293.0	1268.6	1071.3	808.3	676.8	606.8
122.5°	1199.9	1223.9	1320.1	1416.3	1320.1	1223.9	1199.9	1022.2	785.4	667.0	603.6
125°	1109.0	1131.2	1219.8	1308.4	1219.8	1131.2	1109.0	958.2	756.9	656.3	600.8
127.5°	1036.1	1054.8	1129.5	1204.2	1129.5	1054.8	1036.1	906.5	733.7	647.3	599.3
130°	990.0	1007.3	1076.3	1145.3	1076.3	1007.3	990.0	874.7	720.8	643.9	600.3
132.5°	950.7	966.1	1028.0	1089.9	1028.0	966.1	950.7	847.5	709.7	640.9	600.8
135°	895.2	908.5	961.8	1015.2	961.8	908.5	895.2	808.8	693.4	635.8	600.3
137.5°	854.3	865.2	908.8	952.5	908.8	865.2	854.3	781.1	683.7	635.0	603.9
140°	821.4	831.6	872.5	913.2	872.5	831.6	821.4	758.3	674.0	631.9	604.6
142.5°	798.4	807.2	842.3	877.3	842.3	807.2	798.4	742.9	668.9	631.9	606.7
145°	763.8	770.4	797.0	823.5	797.0	770.4	763.8	718.5	658.0	627.7	606.8
147.5°	734.8	740.3	762.2	784.3	762.2	740.3	734.8	699.1	651.5	627.7	610.9
150°	718.2	722.7	740.5	758.3	740.5	722.7	718.2	688.0	647.8	627.7	613.1
152.5°	705.0	708.4	721.8	735.3	721.8	708.4	705.0	679.2	644.9	627.7	614.5
155°	689.2	691.4	700.3	709.2	700.3	691.4	689.2	668.7	641.4	627.7	617.6
157.5°	675.5	677.1	683.3	689.6	683.3	677.1	675.5	659.5	638.3	627.7	620.8
160°	668.6	669.6	673.1	676.8	673.1	669.6	668.6	655.0	636.8	627.7	622.2
162.5°	662.3	663.1	666.5	669.9	666.5	663.1	662.3	650.7	635.4	627.7	623.8
165°	652.5	653.4	657.0	660.6	657.0	653.4	652.5	644.2	633.2	627.7	625.9
167.5°	648.2	648.5	650.1	651.6	650.1	648.5	648.2	642.8	635.5	631.9	630.5
170°	648.2	648.2	648.2	648.2	648.2	648.2	648.2	642.8	635.5	631.9	631.8
172.5°	644.8	644.4	643.1	641.7	643.1	644.4	644.8	640.5	634.8	631.9	631.9
175°	640.1	640.1	640.1	640.1	640.1	640.1	640.1	637.3	633.8	631.9	632.8
177.5°	639.3	638.9	637.3	635.8	637.3	638.9	639.3	637.2	634.3	632.8	633.5
180°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8



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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°	18.7	11.9	11.1	7.6	4.2
92.5°	115.7	82.3	75.1	46.1	17.1
95°	284.9	160.4	147.1	94.1	40.9
97.5°	383.8	176.2	164.5	117.6	70.8
100°	419.8	189.5	178.9	136.4	93.9
102.5°	436.3	202.7	192.8	153.2	113.5
105°	448.5	222.4	214.0	180.4	146.8
107.5°	450.8	251.4	243.6	212.3	181.0
110°	447.3	267.5	260.4	232.3	204.0



TEST NUMBER: P934864

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	447.5	287.1	280.4	253.5	226.6
115°	451.6	316.6	310.4	285.6	260.7
117.5°	460.0	345.2	339.5	317.0	294.4
120°	466.8	361.8	356.5	335.3	314.0
122.5°	476.7	381.5	376.2	354.7	333.3
125°	489.9	406.6	401.8	382.2	362.7
127.5°	503.1	430.9	426.0	406.4	386.6
130°	512.8	447.2	441.9	420.7	399.4
132.5°	520.6	460.4	455.1	433.9	412.6
135°	529.1	475.8	471.0	451.6	432.2
137.5°	541.9	495.4	490.6	471.4	452.3
140°	549.8	508.7	504.3	486.6	468.9
142.5°	556.3	518.5	514.5	498.1	481.8
145°	564.8	533.4	529.8	515.7	501.4
147.5°	577.3	552.2	548.7	534.8	521.0
150°	583.9	562.0	558.9	546.3	533.8
152.5°	588.2	568.4	566.0	556.6	547.0
155°	597.5	582.5	580.7	573.7	566.7
157.5°	607.0	596.6	594.8	588.1	581.2
160°	611.2	602.9	601.6	596.3	591.0
162.5°	615.8	609.8	608.8	604.9	600.8
165°	622.3	619.6	618.7	615.1	611.5
167.5°	627.4	625.1	624.7	623.0	621.3
170°	631.6	631.6	631.1	629.4	627.7
172.5°	631.9	631.9	631.8	631.5	631.1
175°	634.5	635.8	635.8	635.8	635.8
177.5°	634.8	635.8	635.8	635.8	635.8
180°	635.8	635.8	635.8	635.8	635.8



TEST NUMBER: P934864
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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	13.83	14.74	14.75	15.67	16.87	16.66	17.56	17.57	18.50	19.70
	3H	14.31	15.12	15.24	16.07	17.29	18.00	18.82	18.93	19.76	20.98
	4H	14.51	15.27	15.45	16.22	17.46	18.45	19.22	19.39	20.16	21.40
	6H	14.63	15.33	15.58	16.29	17.54	18.73	19.44	19.69	20.40	21.64
	8H	14.63	15.30	15.59	16.27	17.52	18.81	19.48	19.77	20.45	21.70
	12H	14.60	15.24	15.57	16.21	17.48	18.85	19.49	19.82	20.46	21.73
4H	2H	14.87	15.64	15.82	16.58	17.82	17.07	17.84	18.02	18.79	20.02
	3H	15.90	16.54	16.86	17.52	18.77	18.58	19.22	19.54	20.20	21.45
	4H	16.18	16.76	17.15	17.73	19.01	19.11	19.69	20.08	20.66	21.94
	6H	16.31	16.81	17.29	17.81	19.08	19.48	19.98	20.46	20.97	22.25
	8H	16.31	16.78	17.29	17.77	19.06	19.58	20.05	20.56	21.04	22.33
	12H	16.28	16.71	17.28	17.71	19.00	19.64	20.06	20.64	21.07	22.36
8H	4H	16.63	17.10	17.62	18.09	19.38	19.24	19.71	20.22	20.70	21.98
	6H	16.90	17.29	17.90	18.32	19.60	19.67	20.06	20.68	21.09	22.38
	8H	16.94	17.28	17.96	18.30	19.61	19.83	20.17	20.84	21.19	22.49
	12H	16.93	17.23	17.95	18.24	19.59	19.92	20.23	20.94	21.24	22.59
12H	4H	16.64	17.07	17.64	18.07	19.37	19.20	19.63	20.20	20.63	21.93
	6H	16.96	17.30	17.97	18.32	19.62	19.67	20.01	20.69	21.03	22.34
	8H	17.03	17.33	18.05	18.34	19.69	19.83	20.14	20.85	21.15	22.50