

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: P935847

Luminaire Tested: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935847
REPORT IS A COMBINATION OF REPORTS P933772 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

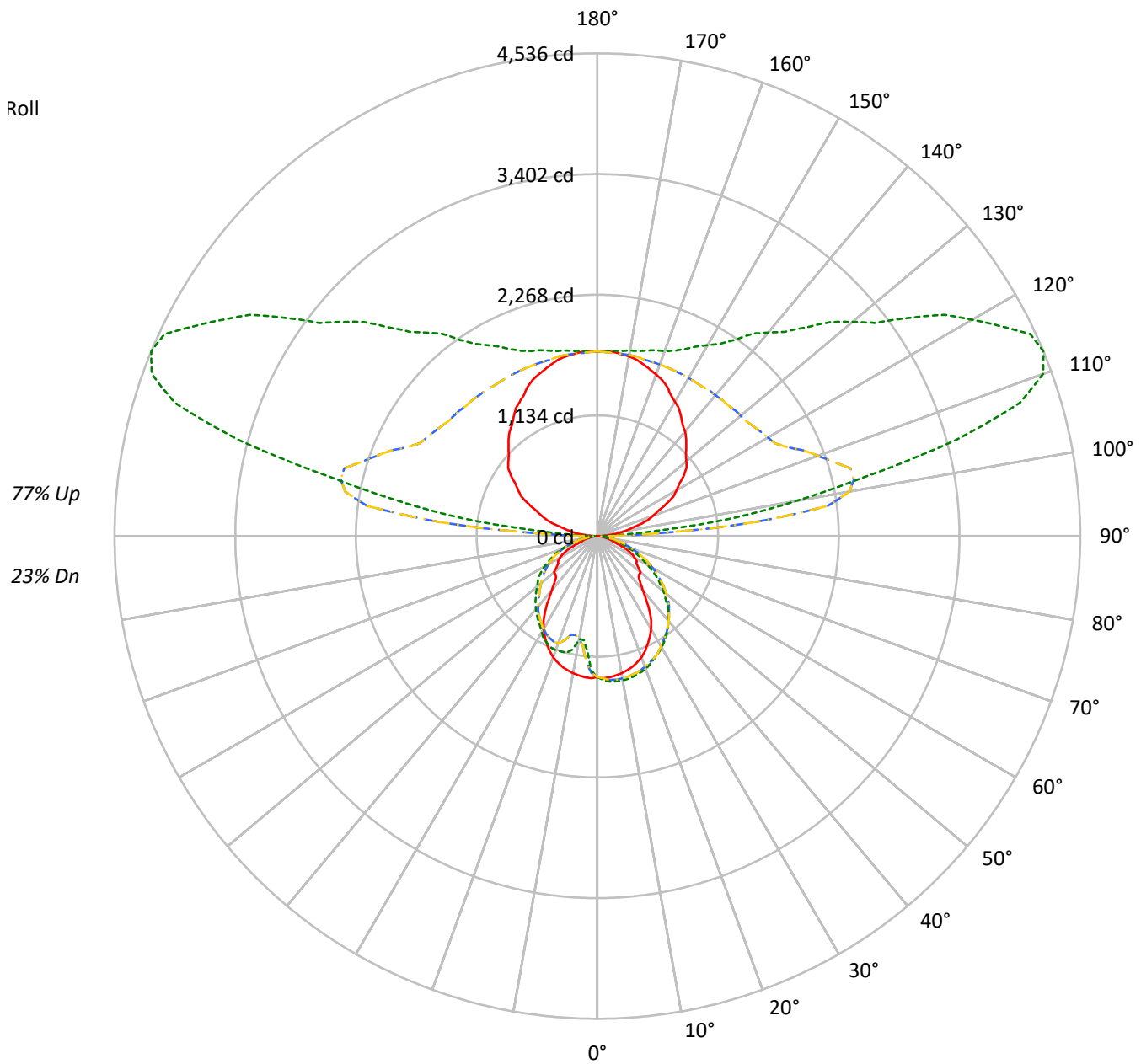
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14704.8 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 111.2
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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6148	6148	6148	6148
5°	6194	6206	6194	4880
10°	6153	6114	6153	4371
15°	6086	5981	6086	4995
20°	5958	5824	5958	5005
25°	5698	5596	5698	4899
30°	5362	5406	5362	4666
35°	4779	5165	4779	4410
40°	3983	4882	3983	4217
45°	3558	4551	3558	3994
50°	3781	4156	3781	3771
55°	3556	3730	3556	3642
60°	3667	3168	3667	3336
65°	3324	2619	3324	2928
70°	2302	2088	2302	2454
75°	2019	1543	2019	1848
80°	1624	1020	1624	1110
85°	936	541	936	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5454 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	0.8
10°-20°	339.6	2.3
20°-30°	525.0	3.6
30°-40°	626.8	4.3
40°-50°	630.4	4.3
50°-60°	548.5	3.7
60°-70°	388.9	2.6
70°-80°	205.8	1.4
80°-90°	57.9	0.4
90°-100°	846.9	5.8
100°-110°	2226.4	15.1
110°-120°	2308.5	15.7
120°-130°	1851.7	12.6
130°-140°	1452.9	9.9
140°-150°	1115.2	7.6
150°-160°	803.1	5.5
160°-170°	491.4	3.3
170°-180°	166.0	1.1
0°-30°	984.3	6.7
0°-40°	1611.0	11.0
0°-60°	2790.0	19.0
0°-90°	3442.6	23.4
90°-120°	5381.8	36.6
90°-150°	9801.7	66.7
90°-180°	11262.0	76.6
0°-180°	14704.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1325	1325	1325	1325	1325	
5°	1332	1373	1332	1080	1332	126
15°	1271	1360	1271	1136	1271	358
25°	1120	1269	1120	1111	1120	514
35°	851	1132	851	967	851	527
45°	549	933	549	819	549	440
55°	448	688	448	672	448	411
65°	311	415	311	464	311	297
75°	118	197	118	236	118	124
85°	20	50	20	43	20	27
90°	12	44	12	44	12	10
95°	112	512	112	512	112	124
105°	401	3486	401	3486	401	425
115°	712	4489	712	4489	712	704
125°	991	3575	991	3575	991	880
135°	1181	2774	1181	2774	1181	914
145°	1370	2250	1370	2250	1370	858
155°	1548	1938	1548	1938	1548	711
165°	1671	1805	1671	1805	1671	472
175°	1737	1749	1737	1749	1737	165
180°	1737	1737	1737	1737	1737	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1336.4	1336.4	1344.0	1346.5	1346.5	1342.7	1339.0	1342.7	1354.0	1357.8	1356.5
5°	1331.5	1341.5	1355.3	1357.8	1360.3	1359.1	1356.5	1359.1	1371.6	1374.1	1375.3
7.5°	1321.4	1340.3	1357.8	1361.6	1365.3	1361.6	1360.3	1362.8	1375.3	1377.9	1377.9
10°	1308.9	1335.2	1355.3	1357.8	1361.6	1357.8	1357.8	1362.8	1375.3	1377.9	1379.1
12.5°	1291.3	1327.7	1346.5	1349.0	1354.0	1352.8	1351.5	1356.5	1369.1	1371.6	1371.6
15°	1271.3	1313.9	1331.5	1333.9	1342.7	1340.3	1340.3	1345.2	1359.1	1362.8	1361.6
17.5°	1243.7	1296.3	1316.4	1320.2	1326.4	1325.2	1326.4	1331.5	1344.0	1346.5	1347.8
20°	1212.3	1272.5	1296.3	1300.1	1306.3	1306.3	1306.3	1312.6	1325.2	1330.2	1330.2
22.5°	1169.7	1247.5	1272.5	1275.0	1282.6	1282.6	1285.0	1293.8	1305.1	1306.3	1306.3
25°	1119.6	1219.9	1241.2	1248.7	1256.2	1260.0	1263.7	1268.8	1272.5	1271.3	1272.5
27.5°	1067.0	1184.7	1212.3	1217.4	1227.4	1231.2	1236.1	1237.5	1238.7	1242.4	1240.0
30°	1008.0	1135.9	1177.3	1182.3	1198.6	1201.1	1196.0	1198.6	1204.8	1207.4	1209.9
32.5°	941.5	1063.1	1140.9	1152.2	1167.3	1159.7	1158.5	1162.2	1172.2	1172.2	1174.7
35°	851.2	1006.8	1107.1	1117.1	1128.4	1119.6	1124.6	1125.9	1132.1	1135.9	1134.6
37.5°	752.3	957.9	1071.9	1079.5	1088.3	1077.0	1084.4	1088.3	1093.2	1090.7	1090.7
40°	664.5	881.3	1030.6	1035.6	1043.1	1034.3	1041.8	1044.3	1046.9	1044.3	1043.1
42.5°	599.2	797.4	986.7	992.9	987.9	994.2	996.7	1001.7	998.0	992.9	992.9
45°	549.1	774.8	939.0	946.6	939.0	949.1	952.8	952.8	941.5	939.0	937.8
47.5°	532.9	729.6	891.4	891.4	887.6	900.2	906.5	897.7	886.4	882.6	882.6
50°	531.6	679.5	826.2	821.2	838.7	853.8	847.5	838.7	829.9	816.2	816.2
52.5°	482.7	618.1	742.3	761.0	788.6	797.4	787.3	778.6	763.6	757.2	752.3
55°	447.5	554.2	665.7	703.4	732.2	743.5	724.7	715.9	693.3	689.5	687.0
57.5°	440.1	461.4	595.5	643.2	678.2	677.0	665.7	649.4	630.6	626.9	625.6
60°	403.7	333.5	520.3	576.7	613.1	609.3	599.2	584.2	566.7	564.2	561.7
62.5°	366.1	242.0	435.0	498.9	550.4	549.1	540.4	517.8	505.2	498.9	494.0
65°	310.9	203.1	309.7	415.0	488.9	491.5	472.7	456.3	442.6	435.0	433.8
67.5°	236.9	165.5	209.4	346.0	430.1	427.5	403.7	396.2	378.6	374.9	367.3
70°	175.5	110.3	145.4	280.9	372.4	366.1	347.2	338.6	322.2	313.4	308.5
72.5°	145.4	89.0	106.6	218.2	313.4	305.9	289.6	279.6	265.8	258.3	253.2
75°	117.9	94.0	81.5	161.7	254.5	249.5	234.4	224.4	213.1	203.1	204.3
77.5°	86.6	87.8	65.1	119.1	201.9	194.3	185.5	173.0	168.0	158.0	158.0
80°	65.1	69.0	48.9	81.5	145.4	145.4	137.9	129.2	120.4	115.3	115.3
82.5°	43.8	43.8	36.4	51.4	99.1	95.2	90.3	87.8	82.7	80.2	80.2
85°	20.1	25.1	22.5	31.3	53.9	56.5	56.5	53.9	52.6	50.2	51.4
87.5°	6.3	11.3	13.8	17.6	27.6	28.9	30.1	30.1	30.1	31.3	31.3
90°	11.7	21.0	30.3	32.6	51.3	76.2	88.6	78.8	59.1	44.3	44.3
92.5°	46.6	125.9	205.3	225.1	316.4	438.2	499.0	437.3	314.1	221.5	212.7
95°	112.0	257.0	402.1	438.4	778.4	1231.8	1458.6	1301.6	987.6	752.1	725.3
97.5°	193.6	321.5	449.6	481.6	1048.6	1804.7	2182.7	2083.5	1885.0	1736.1	1685.4
100°	256.5	372.6	488.7	517.7	1147.0	1985.9	2405.4	2412.7	2427.2	2438.0	2377.5
102.5°	310.1	418.5	526.7	553.8	1192.0	2042.9	2468.4	2594.8	2847.7	3037.3	2985.5
105°	401.1	492.8	584.6	607.5	1225.4	2049.3	2461.4	2744.9	3311.8	3737.0	3709.1
107.5°	494.4	579.9	665.3	686.7	1231.7	1958.2	2321.4	2716.8	3507.7	4100.7	4107.5
110°	557.4	634.6	711.8	731.0	1222.3	1877.4	2204.9	2646.9	3530.9	4194.0	4223.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	619.1	692.7	766.3	784.7	1222.7	1806.7	2098.7	2551.1	3455.9	4134.5	4179.1
115°	712.4	780.3	848.2	865.2	1234.0	1725.7	1971.7	2407.4	3279.0	3932.8	3994.6
117.5°	804.5	866.2	927.9	943.3	1256.9	1675.1	1884.2	2277.5	3064.2	3654.1	3722.7
120°	858.2	916.2	974.2	988.7	1275.6	1658.0	1849.2	2208.6	2927.4	3466.5	3533.0
122.5°	910.6	969.2	1027.7	1042.4	1302.4	1649.1	1822.4	2146.0	2793.3	3278.7	3344.4
125°	991.1	1044.4	1097.8	1111.2	1338.5	1641.6	1793.2	2068.1	2617.9	3030.3	3090.8
127.5°	1056.4	1110.2	1164.2	1177.6	1374.7	1637.4	1768.7	2004.8	2476.9	2830.9	2882.0
130°	1091.4	1149.4	1207.5	1221.9	1401.1	1639.9	1759.4	1969.5	2389.9	2705.0	2752.2
132.5°	1127.5	1185.6	1243.6	1258.1	1422.5	1641.7	1751.3	1939.3	2315.5	2597.7	2640.0
135°	1181.1	1234.0	1286.9	1300.1	1445.8	1640.1	1737.2	1894.8	2209.9	2446.2	2482.6
137.5°	1236.0	1288.3	1340.6	1353.6	1480.8	1650.2	1735.0	1868.2	2134.5	2334.2	2364.1
140°	1281.4	1329.6	1377.8	1389.8	1502.2	1651.9	1726.8	1841.8	2072.0	2244.5	2272.4
142.5°	1316.3	1360.9	1405.5	1416.6	1520.0	1657.9	1726.8	1827.8	2029.9	2181.5	2205.4
145°	1370.0	1408.9	1447.8	1457.5	1543.4	1657.9	1715.1	1797.7	1963.1	2087.1	2105.2
147.5°	1423.7	1461.5	1499.4	1508.8	1577.6	1669.3	1715.1	1780.1	1910.2	2007.7	2022.8
150°	1458.6	1492.8	1527.0	1535.5	1595.4	1675.2	1715.1	1770.1	1879.9	1962.3	1974.5
152.5°	1494.8	1520.7	1546.7	1553.1	1607.1	1679.1	1715.1	1762.0	1855.8	1926.1	1935.3
155°	1548.4	1567.6	1586.8	1591.5	1632.7	1687.6	1715.1	1752.4	1827.1	1883.1	1889.1
157.5°	1588.1	1606.8	1625.4	1630.0	1658.4	1696.2	1715.1	1744.2	1802.2	1845.8	1850.1
160°	1614.9	1629.4	1643.9	1647.5	1670.0	1700.0	1715.1	1740.0	1789.8	1827.1	1829.5
162.5°	1641.7	1652.6	1663.5	1666.2	1682.5	1704.2	1715.1	1736.1	1778.1	1809.6	1811.9
165°	1670.8	1680.6	1690.5	1692.9	1700.3	1710.1	1715.1	1730.1	1760.2	1782.8	1785.2
167.5°	1697.6	1702.3	1707.0	1708.2	1714.3	1722.7	1726.8	1736.6	1756.3	1771.1	1772.1
170°	1715.1	1719.8	1724.4	1725.7	1726.0	1726.5	1726.8	1736.6	1756.3	1771.1	1771.1
172.5°	1724.4	1725.5	1726.5	1726.8	1726.8	1726.8	1726.8	1734.5	1750.1	1761.7	1760.8
175°	1737.2	1737.2	1737.2	1737.2	1733.8	1729.1	1726.8	1731.7	1741.5	1748.9	1748.9
177.5°	1737.2	1737.2	1737.2	1737.2	1734.5	1730.9	1729.1	1733.0	1740.8	1746.6	1745.6
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1359.1	1355.3	1359.1	1356.5	1357.8	1354.0	1342.7	1339.0	1342.7	1346.5	1346.5
5°	1375.3	1372.8	1375.3	1375.3	1374.1	1371.6	1359.1	1356.5	1359.1	1360.3	1357.8
7.5°	1380.4	1376.6	1380.4	1377.9	1377.9	1375.3	1362.8	1360.3	1361.6	1365.3	1361.6
10°	1380.4	1376.6	1380.4	1379.1	1377.9	1375.3	1362.8	1357.8	1357.8	1361.6	1357.8
12.5°	1374.1	1371.6	1374.1	1371.6	1371.6	1369.1	1356.5	1351.5	1352.8	1354.0	1349.0
15°	1364.0	1360.3	1364.0	1361.6	1362.8	1359.1	1345.2	1340.3	1340.3	1342.7	1333.9
17.5°	1349.0	1344.0	1349.0	1347.8	1346.5	1344.0	1331.5	1326.4	1325.2	1326.4	1320.2
20°	1331.5	1327.7	1331.5	1330.2	1330.2	1325.2	1312.6	1306.3	1306.3	1306.3	1300.1
22.5°	1303.9	1300.1	1303.9	1306.3	1306.3	1305.1	1293.8	1285.0	1282.6	1282.6	1275.0
25°	1272.5	1268.8	1272.5	1272.5	1271.3	1272.5	1268.8	1263.7	1260.0	1256.2	1248.7
27.5°	1242.4	1240.0	1242.4	1240.0	1242.4	1238.7	1237.5	1236.1	1231.2	1227.4	1217.4
30°	1212.3	1209.9	1212.3	1209.9	1207.4	1204.8	1198.6	1196.0	1201.1	1198.6	1182.3
32.5°	1174.7	1172.2	1174.7	1174.7	1172.2	1172.2	1162.2	1158.5	1159.7	1167.3	1152.2
35°	1135.9	1132.1	1135.9	1134.6	1135.9	1132.1	1125.9	1124.6	1119.6	1128.4	1117.1
37.5°	1090.7	1087.0	1090.7	1090.7	1090.7	1093.2	1088.3	1084.4	1077.0	1088.3	1079.5
40°	1044.3	1039.3	1044.3	1043.1	1044.3	1046.9	1044.3	1041.8	1034.3	1043.1	1035.6
42.5°	991.7	990.4	991.7	992.9	992.9	998.0	1001.7	996.7	994.2	987.9	992.9
45°	935.3	932.7	935.3	937.8	939.0	941.5	952.8	952.8	949.1	939.0	946.6
47.5°	875.1	868.8	875.1	882.6	882.6	886.4	897.7	906.5	900.2	887.6	891.4
50°	811.1	812.4	811.1	816.2	816.2	829.9	838.7	847.5	853.8	838.7	821.2
52.5°	748.5	747.2	748.5	752.3	757.2	763.6	778.6	787.3	797.4	788.6	761.0
55°	685.8	688.3	685.8	687.0	689.5	693.3	715.9	724.7	743.5	732.2	703.4
57.5°	623.1	619.3	623.1	625.6	626.9	630.6	649.4	665.7	677.0	678.2	643.2
60°	550.4	545.4	550.4	561.7	564.2	566.7	584.2	599.2	609.3	613.1	576.7
62.5°	486.4	477.6	486.4	494.0	498.9	505.2	517.8	540.4	549.1	550.4	498.9
65°	418.7	415.0	418.7	433.8	435.0	442.6	456.3	472.7	491.5	488.9	415.0
67.5°	357.3	357.3	357.3	367.3	374.9	378.6	396.2	403.7	427.5	430.1	346.0
70°	300.9	299.7	300.9	308.5	313.4	322.2	338.6	347.2	366.1	372.4	280.9
72.5°	246.9	245.7	246.9	253.2	258.3	265.8	279.6	289.6	305.9	313.4	218.2
75°	199.4	196.8	199.4	204.3	203.1	213.1	224.4	234.4	249.5	254.5	161.7
77.5°	152.9	152.9	152.9	158.0	158.0	168.0	173.0	185.5	194.3	201.9	119.1
80°	114.1	112.8	114.1	115.3	115.3	120.4	129.2	137.9	145.4	145.4	81.5
82.5°	80.2	77.8	80.2	80.2	80.2	82.7	87.8	90.3	95.2	99.1	51.4
85°	50.2	50.2	50.2	51.4	50.2	52.6	53.9	56.5	56.5	53.9	31.3
87.5°	32.6	31.3	32.6	31.3	31.3	30.1	30.1	30.1	28.9	27.6	17.6
90°	44.3	44.3	44.3	44.3	44.3	59.1	78.8	88.6	76.2	51.3	32.6
92.5°	177.5	142.3	177.5	212.7	221.5	314.1	437.3	499.0	438.2	316.4	225.1
95°	618.6	511.8	618.6	725.3	752.1	987.6	1301.6	1458.6	1231.8	778.4	438.4
97.5°	1482.2	1279.1	1482.2	1685.4	1736.1	1885.0	2083.5	2182.7	1804.7	1048.6	481.6
100°	2135.5	1893.5	2135.5	2377.5	2438.0	2427.2	2412.7	2405.4	1985.9	1147.0	517.7
102.5°	2778.2	2571.0	2778.2	2985.5	3037.3	2847.7	2594.8	2468.4	2042.9	1192.0	553.8
105°	3597.7	3486.3	3597.7	3709.1	3737.0	3311.8	2744.9	2461.4	2049.3	1225.4	607.5
107.5°	4134.4	4161.3	4134.4	4107.5	4100.7	3507.7	2716.8	2321.4	1958.2	1231.7	686.7
110°	4339.1	4455.2	4339.1	4223.0	4194.0	3530.9	2646.9	2204.9	1877.4	1222.3	731.0



TEST NUMBER: P935847

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4357.3	4535.6	4357.3	4179.1	4134.5	3455.9	2551.1	2098.7	1806.7	1222.7	784.7
115°	4241.8	4488.9	4241.8	3994.6	3932.8	3279.0	2407.4	1971.7	1725.7	1234.0	865.2
117.5°	3996.8	4271.0	3996.8	3722.7	3654.1	3064.2	2277.5	1884.2	1675.1	1256.9	943.3
120°	3799.4	4065.7	3799.4	3533.0	3466.5	2927.4	2208.6	1849.2	1658.0	1275.6	988.7
122.5°	3607.1	3869.9	3607.1	3344.4	3278.7	2793.3	2146.0	1822.4	1649.1	1302.4	1042.4
125°	3332.9	3574.9	3332.9	3090.8	3030.3	2617.9	2068.1	1793.2	1641.6	1338.5	1111.2
127.5°	3086.2	3290.4	3086.2	2882.0	2830.9	2476.9	2004.8	1768.7	1637.4	1374.7	1177.6
130°	2940.9	3129.5	2940.9	2752.2	2705.0	2389.9	1969.5	1759.4	1639.9	1401.1	1221.9
132.5°	2808.9	2977.9	2808.9	2640.0	2597.7	2315.5	1939.3	1751.3	1641.7	1422.5	1258.1
135°	2628.2	2773.8	2628.2	2482.6	2446.2	2209.9	1894.8	1737.2	1640.1	1445.8	1300.1
137.5°	2483.2	2602.4	2483.2	2364.1	2334.2	2134.5	1868.2	1735.0	1650.2	1480.8	1353.6
140°	2383.8	2495.2	2383.8	2272.4	2244.5	2072.0	1841.8	1726.8	1651.9	1502.2	1389.8
142.5°	2301.3	2397.2	2301.3	2205.4	2181.5	2029.9	1827.8	1726.8	1657.9	1520.0	1416.6
145°	2177.8	2250.3	2177.8	2105.2	2087.1	1963.1	1797.7	1715.1	1657.9	1543.4	1457.5
147.5°	2082.9	2143.0	2082.9	2022.8	2007.7	1910.2	1780.1	1715.1	1669.3	1577.6	1508.8
150°	2023.3	2072.0	2023.3	1974.5	1962.3	1879.9	1770.1	1715.1	1675.2	1595.4	1535.5
152.5°	1972.1	2009.0	1972.1	1935.3	1926.1	1855.8	1762.0	1715.1	1679.1	1607.1	1553.1
155°	1913.5	1937.8	1913.5	1889.1	1883.1	1827.1	1752.4	1715.1	1687.6	1632.7	1591.5
157.5°	1867.1	1884.2	1867.1	1850.1	1845.8	1802.2	1744.2	1715.1	1696.2	1658.4	1630.0
160°	1839.4	1849.2	1839.4	1829.5	1827.1	1789.8	1740.0	1715.1	1700.0	1670.0	1647.5
162.5°	1821.2	1830.5	1821.2	1811.9	1809.6	1778.1	1736.1	1715.1	1704.2	1682.5	1666.2
165°	1795.1	1804.9	1795.1	1785.2	1782.8	1760.2	1730.1	1715.1	1710.1	1700.3	1692.9
167.5°	1776.3	1780.4	1776.3	1772.1	1771.1	1756.3	1736.6	1726.8	1722.7	1714.3	1708.2
170°	1771.1	1771.1	1771.1	1771.1	1771.1	1756.3	1736.6	1726.8	1726.5	1726.0	1725.7
172.5°	1757.2	1753.6	1757.2	1760.8	1761.7	1750.1	1734.5	1726.8	1726.8	1726.8	1726.8
175°	1748.9	1748.9	1748.9	1748.9	1748.9	1741.5	1731.7	1726.8	1729.1	1733.8	1737.2
177.5°	1741.4	1737.2	1741.4	1745.6	1746.6	1740.8	1733.0	1729.1	1730.9	1734.5	1737.2
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



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CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1344.0	1336.4	1336.4	1323.9	1319.0	1315.1	1308.9	1290.1	1285.0	1280.1	1287.6
5°	1355.3	1341.5	1331.5	1308.9	1290.1	1282.6	1258.8	1213.6	1183.5	1160.9	1148.4
7.5°	1357.8	1340.3	1321.4	1286.3	1241.2	1221.1	1148.4	1065.7	1043.1	1023.0	1010.5
10°	1355.3	1335.2	1308.9	1256.2	1149.7	1114.5	1041.8	987.9	974.2	970.4	974.2
12.5°	1346.5	1327.7	1291.3	1203.6	1054.3	1030.6	987.9	956.6	954.1	960.3	994.2
15°	1331.5	1313.9	1271.3	1133.3	1001.7	984.2	954.1	942.8	956.6	1000.5	1102.0
17.5°	1316.4	1296.3	1243.7	1064.4	961.6	949.1	927.8	950.3	1028.1	1087.0	1120.8
20°	1296.3	1272.5	1212.3	1014.2	932.7	921.5	911.4	1013.0	1071.9	1093.2	1112.0
22.5°	1272.5	1247.5	1169.7	979.2	902.6	894.0	900.2	1048.1	1071.9	1087.0	1103.2
25°	1241.2	1219.9	1119.6	951.6	878.9	868.8	892.6	1044.3	1058.2	1061.9	1094.5
27.5°	1212.3	1184.7	1067.0	926.5	850.0	846.3	898.9	1028.1	1038.1	1041.8	1077.0
30°	1177.3	1135.9	1008.0	900.2	819.9	818.7	900.2	1008.0	1005.5	1015.6	1050.6
32.5°	1140.9	1063.1	941.5	867.6	791.1	789.8	891.4	977.9	975.4	989.2	1015.6
35°	1107.1	1006.8	851.2	829.9	754.8	756.0	870.1	942.8	944.1	956.6	972.9
37.5°	1071.9	957.9	752.3	788.6	719.6	719.6	841.2	910.2	907.7	911.4	934.1
40°	1030.6	881.3	664.5	734.7	687.0	683.3	806.2	875.1	866.3	865.1	896.4
42.5°	986.7	797.4	599.2	663.3	649.4	644.4	763.6	832.4	816.2	819.9	860.0
45°	939.0	774.8	549.1	560.4	610.5	606.8	717.1	783.6	772.3	782.3	823.7
47.5°	891.4	729.6	532.9	465.1	569.2	567.9	665.7	735.9	729.6	739.7	783.6
50°	826.2	679.5	531.6	398.7	522.8	527.8	604.3	689.5	689.5	698.3	744.7
52.5°	742.3	618.1	482.7	361.1	468.8	483.9	550.4	649.4	652.0	660.7	702.1
55°	665.7	554.2	447.5	332.2	404.9	437.5	497.7	608.0	613.1	621.9	659.4
57.5°	595.5	461.4	440.1	298.4	346.0	377.3	451.4	567.9	570.5	577.9	614.3
60°	520.3	333.5	403.7	262.0	294.6	318.5	408.7	520.3	529.0	534.1	565.4
62.5°	435.0	242.0	366.1	236.9	269.6	274.5	373.6	475.2	486.4	490.3	509.0
65°	309.7	203.1	310.9	215.6	243.2	244.5	336.0	428.7	438.8	445.1	458.8
67.5°	209.4	165.5	236.9	195.5	223.2	224.4	299.7	374.9	388.7	393.7	402.5
70°	145.4	110.3	175.5	174.2	200.6	203.1	260.8	325.9	338.6	342.3	347.2
72.5°	106.6	89.0	145.4	156.8	176.8	179.3	220.7	270.8	283.3	287.1	289.6
75°	81.5	94.0	117.9	136.7	150.5	151.7	180.5	220.7	229.5	231.9	233.2
77.5°	65.1	87.8	86.6	110.3	122.8	120.4	141.7	170.5	178.1	178.1	178.1
80°	48.9	69.0	65.1	79.0	90.3	87.8	101.5	121.6	124.1	126.7	125.3
82.5°	36.4	43.8	43.8	50.2	60.2	57.7	67.7	79.0	79.0	79.0	81.5
85°	22.5	25.1	20.1	26.4	33.8	32.6	37.6	42.6	43.8	43.8	41.4
87.5°	13.8	11.3	6.3	10.0	15.0	15.0	17.6	18.8	17.6	17.6	17.6
90°	30.3	21.0	11.7	21.0	30.3	32.6	51.3	76.2	88.6	78.8	59.1
92.5°	205.3	125.9	46.6	125.9	205.3	225.1	316.4	438.2	499.0	437.3	314.1
95°	402.1	257.0	112.0	257.0	402.1	438.4	778.4	1231.8	1458.6	1301.6	987.6
97.5°	449.6	321.5	193.6	321.5	449.6	481.6	1048.6	1804.7	2182.7	2083.5	1885.0
100°	488.7	372.6	256.5	372.6	488.7	517.7	1147.0	1985.9	2405.4	2412.7	2427.2
102.5°	526.7	418.5	310.1	418.5	526.7	553.8	1192.0	2042.9	2468.4	2594.8	2847.7
105°	584.6	492.8	401.1	492.8	584.6	607.5	1225.4	2049.3	2461.4	2744.9	3311.8
107.5°	665.3	579.9	494.4	579.9	665.3	686.7	1231.7	1958.2	2321.4	2716.8	3507.7
110°	711.8	634.6	557.4	634.6	711.8	731.0	1222.3	1877.4	2204.9	2646.9	3530.9



TEST NUMBER: P935847

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	766.3	692.7	619.1	692.7	766.3	784.7	1222.7	1806.7	2098.7	2551.1	3455.9
115°	848.2	780.3	712.4	780.3	848.2	865.2	1234.0	1725.7	1971.7	2407.4	3279.0
117.5°	927.9	866.2	804.5	866.2	927.9	943.3	1256.9	1675.1	1884.2	2277.5	3064.2
120°	974.2	916.2	858.2	916.2	974.2	988.7	1275.6	1658.0	1849.2	2208.6	2927.4
122.5°	1027.7	969.2	910.6	969.2	1027.7	1042.4	1302.4	1649.1	1822.4	2146.0	2793.3
125°	1097.8	1044.4	991.1	1044.4	1097.8	1111.2	1338.5	1641.6	1793.2	2068.1	2617.9
127.5°	1164.2	1110.2	1056.4	1110.2	1164.2	1177.6	1374.7	1637.4	1768.7	2004.8	2476.9
130°	1207.5	1149.4	1091.4	1149.4	1207.5	1221.9	1401.1	1639.9	1759.4	1969.5	2389.9
132.5°	1243.6	1185.6	1127.5	1185.6	1243.6	1258.1	1422.5	1641.7	1751.3	1939.3	2315.5
135°	1286.9	1234.0	1181.1	1234.0	1286.9	1300.1	1445.8	1640.1	1737.2	1894.8	2209.9
137.5°	1340.6	1288.3	1236.0	1288.3	1340.6	1353.6	1480.8	1650.2	1735.0	1868.2	2134.5
140°	1377.8	1329.6	1281.4	1329.6	1377.8	1389.8	1502.2	1651.9	1726.8	1841.8	2072.0
142.5°	1405.5	1360.9	1316.3	1360.9	1405.5	1416.6	1520.0	1657.9	1726.8	1827.8	2029.9
145°	1447.8	1408.9	1370.0	1408.9	1447.8	1457.5	1543.4	1657.9	1715.1	1797.7	1963.1
147.5°	1499.4	1461.5	1423.7	1461.5	1499.4	1508.8	1577.6	1669.3	1715.1	1780.1	1910.2
150°	1527.0	1492.8	1458.6	1492.8	1527.0	1535.5	1595.4	1675.2	1715.1	1770.1	1879.9
152.5°	1546.7	1520.7	1494.8	1520.7	1546.7	1553.1	1607.1	1679.1	1715.1	1762.0	1855.8
155°	1586.8	1567.6	1548.4	1567.6	1586.8	1591.5	1632.7	1687.6	1715.1	1752.4	1827.1
157.5°	1625.4	1606.8	1588.1	1606.8	1625.4	1630.0	1658.4	1696.2	1715.1	1744.2	1802.2
160°	1643.9	1629.4	1614.9	1629.4	1643.9	1647.5	1670.0	1700.0	1715.1	1740.0	1789.8
162.5°	1663.5	1652.6	1641.7	1652.6	1663.5	1666.2	1682.5	1704.2	1715.1	1736.1	1778.1
165°	1690.5	1680.6	1670.8	1680.6	1690.5	1692.9	1700.3	1710.1	1715.1	1730.1	1760.2
167.5°	1707.0	1702.3	1697.6	1702.3	1707.0	1708.2	1714.3	1722.7	1726.8	1736.6	1756.3
170°	1724.4	1719.8	1715.1	1719.8	1724.4	1725.7	1726.0	1726.5	1726.8	1736.6	1756.3
172.5°	1726.5	1725.5	1724.4	1725.5	1726.5	1726.8	1726.8	1726.8	1726.8	1734.5	1750.1
175°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1733.8	1729.1	1726.8	1731.7	1741.5
177.5°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1734.5	1730.9	1729.1	1733.0	1740.8
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



TEST NUMBER: P935847

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1278.8	1275.0	1280.1	1266.2	1280.1	1275.0	1278.8	1287.6	1280.1	1285.0	1290.1
5°	1122.1	1115.9	1095.8	1079.5	1095.8	1115.9	1122.1	1148.4	1160.9	1183.5	1213.6
7.5°	1002.9	998.0	992.9	982.9	992.9	998.0	1002.9	1010.5	1023.0	1043.1	1065.7
10°	976.7	977.9	985.5	984.2	985.5	977.9	976.7	974.2	970.4	974.2	987.9
12.5°	1044.3	1055.7	1097.0	1094.5	1097.0	1055.7	1044.3	994.2	960.3	954.1	956.6
15°	1122.1	1125.9	1134.6	1135.9	1134.6	1125.9	1122.1	1102.0	1000.5	956.6	942.8
17.5°	1129.6	1130.9	1137.2	1137.2	1137.2	1130.9	1129.6	1120.8	1087.0	1028.1	950.3
20°	1123.3	1125.9	1138.4	1140.9	1138.4	1125.9	1123.3	1112.0	1093.2	1071.9	1013.0
22.5°	1120.8	1125.9	1135.9	1134.6	1135.9	1125.9	1120.8	1103.2	1087.0	1071.9	1048.1
25°	1108.3	1108.3	1109.6	1110.8	1109.6	1108.3	1108.3	1094.5	1061.9	1058.2	1044.3
27.5°	1081.9	1084.4	1092.0	1090.7	1092.0	1084.4	1081.9	1077.0	1041.8	1038.1	1028.1
30°	1058.2	1055.7	1049.4	1044.3	1049.4	1055.7	1058.2	1050.6	1015.6	1005.5	1008.0
32.5°	1018.0	1011.7	1005.5	1001.7	1005.5	1011.7	1018.0	1015.6	989.2	975.4	977.9
35°	970.4	971.6	970.4	966.6	970.4	971.6	970.4	972.9	956.6	944.1	942.8
37.5°	936.6	939.0	937.8	932.7	937.8	939.0	936.6	934.1	911.4	907.7	910.2
40°	901.4	902.6	901.4	897.7	901.4	902.6	901.4	896.4	865.1	866.3	875.1
42.5°	867.6	866.3	862.5	860.0	862.5	866.3	867.6	860.0	819.9	816.2	832.4
45°	828.7	829.9	822.4	818.7	822.4	829.9	828.7	823.7	782.3	772.3	783.6
47.5°	789.8	789.8	783.6	779.8	783.6	789.8	789.8	783.6	739.7	729.6	735.9
50°	748.5	747.2	738.4	737.2	738.4	747.2	748.5	744.7	698.3	689.5	689.5
52.5°	700.8	700.8	702.1	704.6	702.1	700.8	700.8	702.1	660.7	652.0	649.4
55°	659.4	660.7	669.5	672.0	669.5	660.7	659.4	659.4	621.9	613.1	608.0
57.5°	616.8	616.8	623.1	623.1	623.1	616.8	616.8	614.3	577.9	570.5	567.9
60°	567.9	570.5	575.5	574.2	575.5	570.5	567.9	565.4	534.1	529.0	520.3
62.5°	516.5	519.0	520.3	517.8	520.3	519.0	516.5	509.0	490.3	486.4	475.2
65°	462.6	465.1	466.4	463.9	466.4	465.1	462.6	458.8	445.1	438.8	428.7
67.5°	407.4	406.2	404.9	410.0	404.9	406.2	407.4	402.5	393.7	388.7	374.9
70°	351.1	351.1	349.8	352.3	349.8	351.1	351.1	347.2	342.3	338.6	325.9
72.5°	290.9	289.6	294.6	290.9	294.6	289.6	290.9	289.6	287.1	283.3	270.8
75°	231.9	234.4	231.9	235.7	231.9	234.4	231.9	233.2	231.9	229.5	220.7
77.5°	176.8	179.3	176.8	176.8	176.8	179.3	176.8	178.1	178.1	178.1	170.5
80°	125.3	124.1	124.1	122.8	124.1	124.1	125.3	125.3	126.7	124.1	121.6
82.5°	80.2	79.0	79.0	81.5	79.0	79.0	80.2	81.5	79.0	79.0	79.0
85°	43.8	45.1	42.6	42.6	42.6	45.1	43.8	41.4	43.8	43.8	42.6
87.5°	16.3	15.0	15.0	15.0	15.0	15.0	16.3	17.6	17.6	17.6	18.8
90°	44.3	44.3	44.3	44.3	44.3	44.3	44.3	59.1	78.8	88.6	76.2
92.5°	221.5	212.7	177.5	142.3	177.5	212.7	221.5	314.1	437.3	499.0	438.2
95°	752.1	725.3	618.6	511.8	618.6	725.3	752.1	987.6	1301.6	1458.6	1231.8
97.5°	1736.1	1685.4	1482.2	1279.1	1482.2	1685.4	1736.1	1885.0	2083.5	2182.7	1804.7
100°	2438.0	2377.5	2135.5	1893.5	2135.5	2377.5	2438.0	2427.2	2412.7	2405.4	1985.9
102.5°	3037.3	2985.5	2778.2	2571.0	2778.2	2985.5	3037.3	2847.7	2594.8	2468.4	2042.9
105°	3737.0	3709.1	3597.7	3486.3	3597.7	3709.1	3737.0	3311.8	2744.9	2461.4	2049.3
107.5°	4100.7	4107.5	4134.4	4161.3	4134.4	4107.5	4100.7	3507.7	2716.8	2321.4	1958.2
110°	4194.0	4223.0	4339.1	4455.2	4339.1	4223.0	4194.0	3530.9	2646.9	2204.9	1877.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4134.5	4179.1	4357.3	4535.6	4357.3	4179.1	4134.5	3455.9	2551.1	2098.7	1806.7
115°	3932.8	3994.6	4241.8	4488.9	4241.8	3994.6	3932.8	3279.0	2407.4	1971.7	1725.7
117.5°	3654.1	3722.7	3996.8	4271.0	3996.8	3722.7	3654.1	3064.2	2277.5	1884.2	1675.1
120°	3466.5	3533.0	3799.4	4065.7	3799.4	3533.0	3466.5	2927.4	2208.6	1849.2	1658.0
122.5°	3278.7	3344.4	3607.1	3869.9	3607.1	3344.4	3278.7	2793.3	2146.0	1822.4	1649.1
125°	3030.3	3090.8	3332.9	3574.9	3332.9	3090.8	3030.3	2617.9	2068.1	1793.2	1641.6
127.5°	2830.9	2882.0	3086.2	3290.4	3086.2	2882.0	2830.9	2476.9	2004.8	1768.7	1637.4
130°	2705.0	2752.2	2940.9	3129.5	2940.9	2752.2	2705.0	2389.9	1969.5	1759.4	1639.9
132.5°	2597.7	2640.0	2808.9	2977.9	2808.9	2640.0	2597.7	2315.5	1939.3	1751.3	1641.7
135°	2446.2	2482.6	2628.2	2773.8	2628.2	2482.6	2446.2	2209.9	1894.8	1737.2	1640.1
137.5°	2334.2	2364.1	2483.2	2602.4	2483.2	2364.1	2334.2	2134.5	1868.2	1735.0	1650.2
140°	2244.5	2272.4	2383.8	2495.2	2383.8	2272.4	2244.5	2072.0	1841.8	1726.8	1651.9
142.5°	2181.5	2205.4	2301.3	2397.2	2301.3	2205.4	2181.5	2029.9	1827.8	1726.8	1657.9
145°	2087.1	2105.2	2177.8	2250.3	2177.8	2105.2	2087.1	1963.1	1797.7	1715.1	1657.9
147.5°	2007.7	2022.8	2082.9	2143.0	2082.9	2022.8	2007.7	1910.2	1780.1	1715.1	1669.3
150°	1962.3	1974.5	2023.3	2072.0	2023.3	1974.5	1962.3	1879.9	1770.1	1715.1	1675.2
152.5°	1926.1	1935.3	1972.1	2009.0	1972.1	1935.3	1926.1	1855.8	1762.0	1715.1	1679.1
155°	1883.1	1889.1	1913.5	1937.8	1913.5	1889.1	1883.1	1827.1	1752.4	1715.1	1687.6
157.5°	1845.8	1850.1	1867.1	1884.2	1867.1	1850.1	1845.8	1802.2	1744.2	1715.1	1696.2
160°	1827.1	1829.5	1839.4	1849.2	1839.4	1829.5	1827.1	1789.8	1740.0	1715.1	1700.0
162.5°	1809.6	1811.9	1821.2	1830.5	1821.2	1811.9	1809.6	1778.1	1736.1	1715.1	1704.2
165°	1782.8	1785.2	1795.1	1804.9	1795.1	1785.2	1782.8	1760.2	1730.1	1715.1	1710.1
167.5°	1771.1	1772.1	1776.3	1780.4	1776.3	1772.1	1771.1	1756.3	1736.6	1726.8	1722.7
170°	1771.1	1771.1	1771.1	1771.1	1771.1	1771.1	1771.1	1756.3	1736.6	1726.8	1726.5
172.5°	1761.7	1760.8	1757.2	1753.6	1757.2	1760.8	1761.7	1750.1	1734.5	1726.8	1726.8
175°	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9	1741.5	1731.7	1726.8	1729.1
177.5°	1746.6	1745.6	1741.4	1737.2	1741.4	1745.6	1746.6	1740.8	1733.0	1729.1	1730.9
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



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CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1308.9	1315.1	1319.0	1323.9	1336.4
5°	1258.8	1282.6	1290.1	1308.9	1331.5
7.5°	1148.4	1221.1	1241.2	1286.3	1321.4
10°	1041.8	1114.5	1149.7	1256.2	1308.9
12.5°	987.9	1030.6	1054.3	1203.6	1291.3
15°	954.1	984.2	1001.7	1133.3	1271.3
17.5°	927.8	949.1	961.6	1064.4	1243.7
20°	911.4	921.5	932.7	1014.2	1212.3
22.5°	900.2	894.0	902.6	979.2	1169.7
25°	892.6	868.8	878.9	951.6	1119.6
27.5°	898.9	846.3	850.0	926.5	1067.0
30°	900.2	818.7	819.9	900.2	1008.0
32.5°	891.4	789.8	791.1	867.6	941.5
35°	870.1	756.0	754.8	829.9	851.2
37.5°	841.2	719.6	719.6	788.6	752.3
40°	806.2	683.3	687.0	734.7	664.5
42.5°	763.6	644.4	649.4	663.3	599.2
45°	717.1	606.8	610.5	560.4	549.1
47.5°	665.7	567.9	569.2	465.1	532.9
50°	604.3	527.8	522.8	398.7	531.6
52.5°	550.4	483.9	468.8	361.1	482.7
55°	497.7	437.5	404.9	332.2	447.5
57.5°	451.4	377.3	346.0	298.4	440.1
60°	408.7	318.5	294.6	262.0	403.7
62.5°	373.6	274.5	269.6	236.9	366.1
65°	336.0	244.5	243.2	215.6	310.9
67.5°	299.7	224.4	223.2	195.5	236.9
70°	260.8	203.1	200.6	174.2	175.5
72.5°	220.7	179.3	176.8	156.8	145.4
75°	180.5	151.7	150.5	136.7	117.9
77.5°	141.7	120.4	122.8	110.3	86.6
80°	101.5	87.8	90.3	79.0	65.1
82.5°	67.7	57.7	60.2	50.2	43.8
85°	37.6	32.6	33.8	26.4	20.1
87.5°	17.6	15.0	15.0	10.0	6.3
90°	51.3	32.6	30.3	21.0	11.7
92.5°	316.4	225.1	205.3	125.9	46.6
95°	778.4	438.4	402.1	257.0	112.0
97.5°	1048.6	481.6	449.6	321.5	193.6
100°	1147.0	517.7	488.7	372.6	256.5
102.5°	1192.0	553.8	526.7	418.5	310.1
105°	1225.4	607.5	584.6	492.8	401.1
107.5°	1231.7	686.7	665.3	579.9	494.4
110°	1222.3	731.0	711.8	634.6	557.4



TEST NUMBER: P935847

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1222.7	784.7	766.3	692.7	619.1
115°	1234.0	865.2	848.2	780.3	712.4
117.5°	1256.9	943.3	927.9	866.2	804.5
120°	1275.6	988.7	974.2	916.2	858.2
122.5°	1302.4	1042.4	1027.7	969.2	910.6
125°	1338.5	1111.2	1097.8	1044.4	991.1
127.5°	1374.7	1177.6	1164.2	1110.2	1056.4
130°	1401.1	1221.9	1207.5	1149.4	1091.4
132.5°	1422.5	1258.1	1243.6	1185.6	1127.5
135°	1445.8	1300.1	1286.9	1234.0	1181.1
137.5°	1480.8	1353.6	1340.6	1288.3	1236.0
140°	1502.2	1389.8	1377.8	1329.6	1281.4
142.5°	1520.0	1416.6	1405.5	1360.9	1316.3
145°	1543.4	1457.5	1447.8	1408.9	1370.0
147.5°	1577.6	1508.8	1499.4	1461.5	1423.7
150°	1595.4	1535.5	1527.0	1492.8	1458.6
152.5°	1607.1	1553.1	1546.7	1520.7	1494.8
155°	1632.7	1591.5	1586.8	1567.6	1548.4
157.5°	1658.4	1630.0	1625.4	1606.8	1588.1
160°	1670.0	1647.5	1643.9	1629.4	1614.9
162.5°	1682.5	1666.2	1663.5	1652.6	1641.7
165°	1700.3	1692.9	1690.5	1680.6	1670.8
167.5°	1714.3	1708.2	1707.0	1702.3	1697.6
170°	1726.0	1725.7	1724.4	1719.8	1715.1
172.5°	1726.8	1726.8	1726.5	1725.5	1724.4
175°	1733.8	1737.2	1737.2	1737.2	1737.2
177.5°	1734.5	1737.2	1737.2	1737.2	1737.2
180°	1737.2	1737.2	1737.2	1737.2	1737.2



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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	7.91	8.57	9.06	9.71	11.32	10.75	11.41	11.90	12.55	14.16
	3H	8.37	8.96	9.53	10.11	11.74	12.08	12.67	13.24	13.82	15.44
	4H	8.55	9.12	9.72	10.27	11.89	12.51	13.08	13.69	14.23	15.86
	6H	8.66	9.18	9.84	10.33	11.97	12.79	13.31	13.97	14.46	16.10
	8H	8.65	9.15	9.84	10.32	11.95	12.86	13.35	14.04	14.52	16.15
	12H	8.62	9.09	9.80	10.25	11.90	12.89	13.36	14.08	14.52	16.18
4H	2H	8.92	9.48	10.10	10.63	12.26	11.13	11.69	12.31	12.85	14.47
	3H	9.93	10.40	11.11	11.57	13.21	12.62	13.09	13.80	14.27	15.90
	4H	10.19	10.63	11.38	11.79	13.45	13.14	13.57	14.33	14.74	16.39
	6H	10.31	10.68	11.50	11.87	13.51	13.50	13.87	14.69	15.05	16.70
	8H	10.31	10.65	11.50	11.83	13.50	13.60	13.94	14.79	15.12	16.79
	12H	10.27	10.58	11.47	11.77	13.44	13.65	13.96	14.85	15.15	16.82
8H	4H	10.63	10.98	11.82	12.16	13.82	13.25	13.59	14.44	14.77	16.44
	6H	10.89	11.17	12.09	12.39	14.05	13.68	13.96	14.89	15.18	16.84
	8H	10.93	11.17	12.14	12.37	14.05	13.83	14.08	15.04	15.28	16.96
	12H	10.90	11.12	12.12	12.31	14.03	13.92	14.14	15.14	15.33	17.04
12H	4H	10.63	10.94	11.83	12.13	13.80	13.20	13.52	14.41	14.71	16.37
	6H	10.94	11.19	12.16	12.39	14.07	13.67	13.92	14.89	15.12	16.80
	8H	11.00	11.22	12.22	12.42	14.13	13.83	14.05	15.04	15.24	16.95