

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: P935360

Luminaire Tested: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935360
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

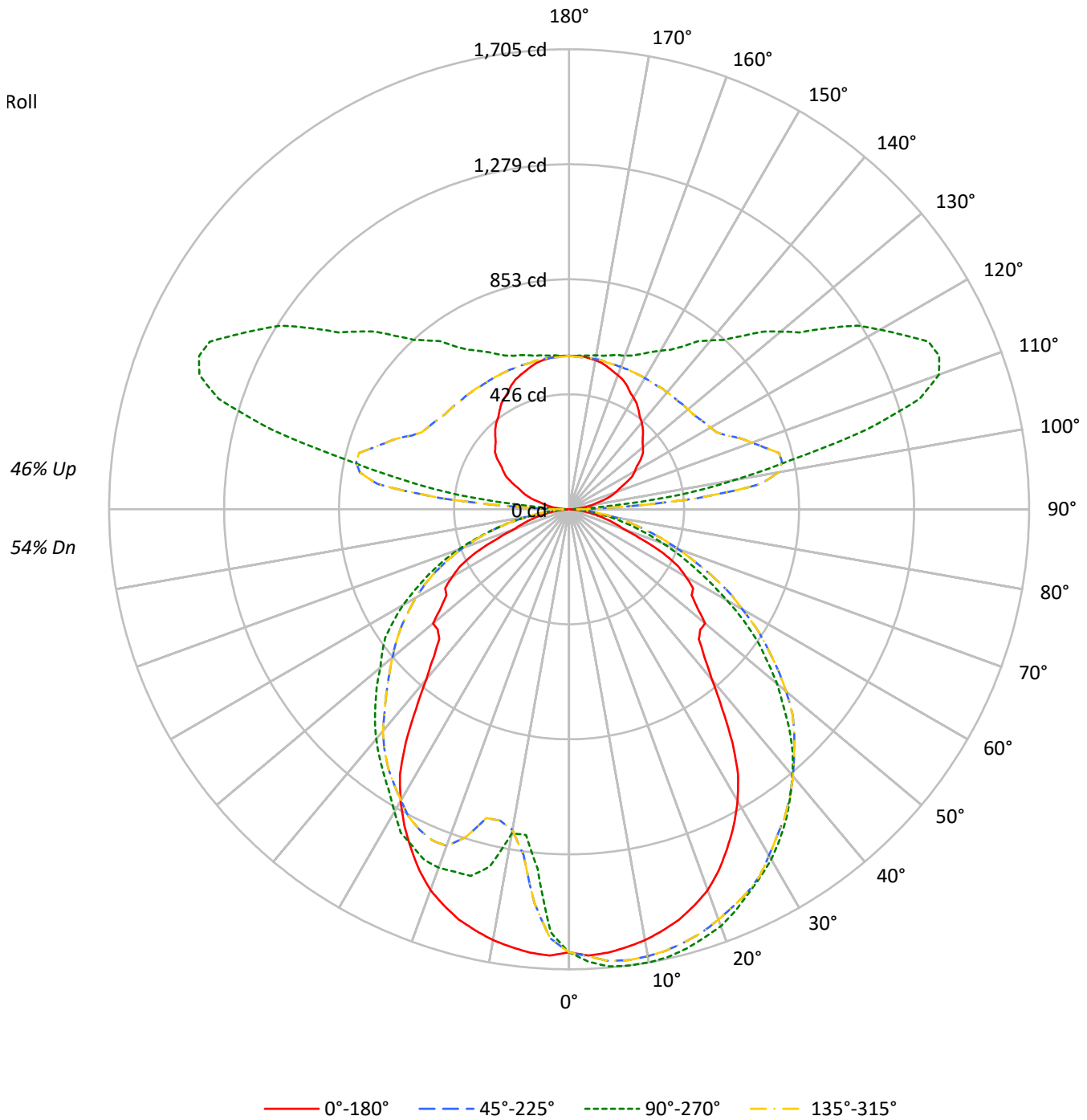
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7945.4 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 68.8
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





TEST NUMBER: P935360

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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	85	85	85	72	72	72	59	59	59	54
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19	17
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15233	15233	15233	15233
5°	15329	15377	15329	12091
10°	15210	15147	15210	10829
15°	15028	14819	15028	12373
20°	14696	14430	14696	12400
25°	14035	13862	14035	12137
30°	13188	13392	13188	11560
35°	11740	12796	11740	10926
40°	9766	12095	9766	10447
45°	8708	11275	8708	9896
50°	9230	10296	9230	9343
55°	8661	9242	8661	9023
60°	8896	7850	8896	8265
65°	8027	6489	8027	7254
70°	5519	5171	5519	6080
75°	4788	3822	4788	4578
80°	3782	2528	3782	2752
85°	2062	1338	2062	1138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13373 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	1.9
10°-20°	420.7	5.3
20°-30°	650.4	8.2
30°-40°	776.4	9.8
40°-50°	780.9	9.8
50°-60°	679.5	8.6
60°-70°	481.8	6.1
70°-80°	254.9	3.2
80°-90°	65.6	0.8
90°-100°	277.2	3.5
100°-110°	728.9	9.2
110°-120°	755.8	9.5
120°-130°	606.2	7.6
130°-140°	475.7	6.0
140°-150°	365.1	4.6
150°-160°	262.9	3.3
160°-170°	160.9	2.0
170°-180°	54.4	0.7
0°-30°	1219.3	15.3
0°-40°	1995.6	25.1
0°-60°	3456.1	43.5
0°-90°	4258.4	53.6
90°-120°	1761.9	22.2
90°-150°	3208.8	40.4
90°-180°	3687.0	46.4
0°-180°	7945.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1642	1642	1642	1642	1642	
5°	1649	1701	1649	1337	1649	156
15°	1575	1685	1575	1407	1575	443
25°	1387	1572	1387	1376	1387	637
35°	1054	1402	1054	1197	1054	652
45°	680	1156	680	1014	680	545
55°	554	853	554	832	554	509
65°	385	514	385	575	385	368
75°	146	244	146	292	146	153
85°	25	62	25	53	25	34
90°	4	14	4	14	4	4
95°	37	168	37	168	37	41
105°	131	1141	131	1141	131	139
115°	233	1470	233	1470	233	230
125°	324	1170	324	1170	324	288
135°	387	908	387	908	387	299
145°	448	737	448	737	448	281
155°	507	634	507	634	507	233
165°	547	591	547	591	547	154
175°	569	572	569	572	569	54
180°	569	569	569	569	569	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1655.5	1655.5	1664.9	1668.0	1668.0	1663.3	1658.6	1663.3	1677.3	1682.0	1680.4
5°	1649.3	1661.8	1678.8	1682.0	1685.1	1683.5	1680.4	1683.5	1699.0	1702.1	1703.7
7.5°	1636.9	1660.2	1682.0	1686.6	1691.2	1686.6	1685.1	1688.2	1703.7	1706.8	1706.8
10°	1621.4	1654.0	1678.8	1682.0	1686.6	1682.0	1682.0	1688.2	1703.7	1706.8	1708.4
12.5°	1599.6	1644.7	1668.0	1671.0	1677.3	1675.7	1674.2	1680.4	1695.9	1699.0	1699.0
15°	1574.8	1627.6	1649.3	1652.4	1663.3	1660.2	1660.2	1666.4	1683.5	1688.2	1686.6
17.5°	1540.6	1605.9	1630.7	1635.3	1643.1	1641.6	1643.1	1649.3	1664.9	1668.0	1669.5
20°	1501.8	1576.3	1605.9	1610.5	1618.3	1618.3	1618.3	1626.1	1641.6	1647.8	1647.8
22.5°	1448.9	1545.3	1576.3	1579.4	1588.7	1588.7	1591.8	1602.8	1616.7	1618.3	1618.3
25°	1386.8	1511.1	1537.5	1546.9	1556.1	1560.8	1565.5	1571.6	1576.3	1574.8	1576.3
27.5°	1321.7	1467.6	1501.8	1508.0	1520.4	1525.1	1531.3	1532.8	1534.4	1539.1	1535.9
30°	1248.6	1407.0	1458.3	1464.5	1484.7	1487.8	1481.6	1484.7	1492.4	1495.6	1498.7
32.5°	1166.3	1317.0	1413.3	1427.2	1445.9	1436.6	1435.0	1439.7	1452.1	1452.1	1455.2
35°	1054.5	1247.1	1371.3	1383.8	1397.7	1386.8	1393.1	1394.6	1402.4	1407.0	1405.5
37.5°	931.8	1186.5	1327.8	1337.2	1348.0	1334.1	1343.4	1348.0	1354.2	1351.1	1351.1
40°	823.1	1091.8	1276.6	1282.8	1292.1	1281.3	1290.6	1293.7	1296.8	1293.7	1292.1
42.5°	742.3	987.7	1222.3	1230.0	1223.7	1231.5	1234.7	1240.9	1236.2	1230.0	1230.0
45°	680.2	959.8	1163.2	1172.5	1163.2	1175.7	1180.3	1180.3	1166.3	1163.2	1161.7
47.5°	660.0	903.8	1104.2	1104.2	1099.6	1115.1	1122.8	1112.0	1098.0	1093.3	1093.3
50°	658.4	841.7	1023.4	1017.3	1039.0	1057.6	1049.8	1039.0	1028.1	1011.0	1011.0
52.5°	597.9	765.6	919.4	942.7	976.9	987.7	975.3	964.4	945.8	938.1	931.8
55°	554.5	686.4	824.6	871.3	907.0	920.9	897.7	886.8	858.9	854.2	851.1
57.5°	545.1	571.5	737.7	796.7	840.1	838.7	824.6	804.5	781.1	776.6	775.0
60°	500.1	413.1	644.5	714.4	759.4	754.8	742.3	723.7	701.9	698.8	695.8
62.5°	453.5	299.7	538.9	618.1	681.8	680.2	669.4	641.4	625.9	618.1	611.9
65°	385.2	251.6	383.6	514.1	605.7	608.8	585.5	565.3	548.2	538.9	537.3
67.5°	293.5	205.0	259.3	428.7	532.7	529.6	500.1	490.8	469.0	464.4	455.1
70°	217.4	136.6	180.1	347.9	461.2	453.5	430.2	419.3	399.1	388.3	382.0
72.5°	180.1	110.3	132.0	270.3	388.3	378.9	358.7	346.3	329.3	319.9	313.7
75°	146.0	116.5	100.9	200.3	315.2	309.1	290.5	278.0	264.0	251.6	253.1
77.5°	107.2	108.7	80.8	147.6	250.1	240.7	229.9	214.3	208.1	195.7	195.7
80°	80.8	85.4	60.6	100.9	180.1	180.1	170.9	160.0	149.1	142.9	142.9
82.5°	54.3	54.3	45.1	63.7	122.7	118.0	111.8	108.7	102.5	99.4	99.4
85°	24.9	31.0	28.0	38.8	66.8	69.9	69.9	66.8	65.2	62.1	63.7
87.5°	7.8	13.9	17.1	21.7	34.1	35.7	37.3	37.3	37.3	38.8	38.8
90°	3.9	6.9	9.9	10.6	16.8	25.0	29.0	25.8	19.4	14.5	14.5
92.5°	15.2	41.2	67.2	73.7	103.6	143.4	163.3	143.2	102.8	72.5	69.7
95°	36.6	84.2	131.7	143.5	254.8	403.2	477.5	426.1	323.3	246.2	237.5
97.5°	63.3	105.3	147.2	157.7	343.3	590.8	714.5	682.0	617.1	568.3	551.7
100°	84.0	122.0	160.0	169.5	375.5	650.2	787.5	789.9	794.5	798.1	778.3
102.5°	101.5	137.0	172.4	181.3	390.3	668.8	808.1	849.5	932.3	994.3	977.3
105°	131.3	161.3	191.3	198.9	401.2	670.9	805.8	898.6	1084.2	1223.4	1214.3
107.5°	161.9	189.9	217.9	224.8	403.2	641.0	759.9	889.4	1148.3	1342.5	1344.7
110°	182.4	207.8	233.0	239.3	400.1	614.6	721.8	866.5	1155.9	1373.0	1382.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	202.7	226.8	250.8	256.9	400.3	591.5	687.1	835.2	1131.3	1353.5	1368.1
115°	233.2	255.4	277.6	283.2	404.0	565.0	645.5	788.2	1073.5	1287.5	1307.7
117.5°	263.4	283.6	303.8	308.8	411.5	548.4	616.9	745.6	1003.1	1196.3	1218.7
120°	280.9	299.9	318.9	323.7	417.6	542.8	605.4	723.1	958.3	1134.8	1156.7
122.5°	298.2	317.3	336.5	341.3	426.4	539.9	596.6	702.5	914.4	1073.3	1094.8
125°	324.5	341.9	359.4	363.8	438.2	537.4	587.0	677.1	857.0	992.0	1011.9
127.5°	345.8	363.4	381.1	385.5	450.0	536.0	579.1	656.3	810.9	926.8	943.5
130°	357.3	376.3	395.3	400.0	458.7	536.9	576.0	644.9	782.4	885.6	901.0
132.5°	369.1	388.1	407.1	411.9	465.6	537.4	573.3	634.9	758.0	850.4	864.3
135°	386.7	404.0	421.3	425.6	473.3	536.9	568.8	620.4	723.4	800.8	812.7
137.5°	404.6	421.8	438.8	443.2	484.7	540.2	568.0	611.6	698.7	764.2	773.9
140°	419.5	435.3	451.0	455.0	491.8	540.8	565.3	602.9	678.3	734.8	743.9
142.5°	430.9	445.5	460.1	463.8	497.7	542.7	565.3	598.3	664.5	714.2	722.0
145°	448.5	461.2	473.9	477.1	505.3	542.8	561.5	588.6	642.7	683.2	689.2
147.5°	466.1	478.5	490.8	493.9	516.5	546.5	561.5	582.8	625.4	657.3	662.3
150°	477.5	488.7	499.9	502.7	522.4	548.5	561.5	579.5	615.4	642.4	646.3
152.5°	489.3	497.8	506.3	508.4	526.1	549.7	561.5	576.9	607.5	630.5	633.6
155°	506.9	513.2	519.5	521.1	534.6	552.5	561.5	573.7	598.2	616.4	618.4
157.5°	519.9	526.0	532.1	533.6	542.9	555.3	561.5	571.0	590.0	604.2	605.6
160°	528.7	533.5	538.1	539.3	546.8	556.6	561.5	569.7	585.9	598.2	599.0
162.5°	537.4	541.0	544.6	545.5	550.8	558.0	561.5	568.4	582.1	592.4	593.1
165°	546.9	550.2	553.4	554.2	556.7	559.9	561.5	566.5	576.3	583.7	584.5
167.5°	555.8	557.3	558.9	559.2	561.3	563.9	565.3	568.5	574.9	579.8	580.2
170°	561.5	563.0	564.6	564.9	565.0	565.2	565.3	568.5	574.9	579.8	579.8
172.5°	564.6	564.9	565.2	565.3	565.3	565.3	565.3	567.9	572.9	576.8	576.5
175°	568.8	568.8	568.8	568.8	567.6	566.0	565.3	567.0	570.2	572.5	572.5
177.5°	568.8	568.8	568.8	568.8	567.9	566.7	566.0	567.3	569.9	571.8	571.4
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1683.5	1678.8	1683.5	1680.4	1682.0	1677.3	1663.3	1658.6	1663.3	1668.0	1668.0
5°	1703.7	1700.6	1703.7	1703.7	1702.1	1699.0	1683.5	1680.4	1683.5	1685.1	1682.0
7.5°	1709.8	1705.3	1709.8	1706.8	1706.8	1703.7	1688.2	1685.1	1686.6	1691.2	1686.6
10°	1709.8	1705.3	1709.8	1708.4	1706.8	1703.7	1688.2	1682.0	1682.0	1686.6	1682.0
12.5°	1702.1	1699.0	1702.1	1699.0	1699.0	1695.9	1680.4	1674.2	1675.7	1677.3	1671.0
15°	1689.7	1685.1	1689.7	1686.6	1688.2	1683.5	1666.4	1660.2	1660.2	1663.3	1652.4
17.5°	1671.0	1664.9	1671.0	1669.5	1668.0	1664.9	1649.3	1643.1	1641.6	1643.1	1635.3
20°	1649.3	1644.7	1649.3	1647.8	1647.8	1641.6	1626.1	1618.3	1618.3	1618.3	1610.5
22.5°	1615.1	1610.5	1615.1	1618.3	1618.3	1616.7	1602.8	1591.8	1588.7	1588.7	1579.4
25°	1576.3	1571.6	1576.3	1576.3	1574.8	1576.3	1571.6	1565.5	1560.8	1556.1	1546.9
27.5°	1539.1	1535.9	1539.1	1535.9	1539.1	1534.4	1532.8	1531.3	1525.1	1520.4	1508.0
30°	1501.8	1498.7	1501.8	1498.7	1495.6	1492.4	1484.7	1481.6	1487.8	1484.7	1464.5
32.5°	1455.2	1452.1	1455.2	1455.2	1452.1	1452.1	1439.7	1435.0	1436.6	1445.9	1427.2
35°	1407.0	1402.4	1407.0	1405.5	1407.0	1402.4	1394.6	1393.1	1386.8	1397.7	1383.8
37.5°	1351.1	1346.4	1351.1	1351.1	1351.1	1354.2	1348.0	1343.4	1334.1	1348.0	1337.2
40°	1293.7	1287.4	1293.7	1292.1	1293.7	1296.8	1293.7	1290.6	1281.3	1292.1	1282.8
42.5°	1228.4	1226.9	1228.4	1230.0	1230.0	1236.2	1240.9	1234.7	1231.5	1223.7	1230.0
45°	1158.6	1155.5	1158.6	1161.7	1163.2	1166.3	1180.3	1180.3	1175.7	1163.2	1172.5
47.5°	1084.0	1076.3	1084.0	1093.3	1093.3	1098.0	1112.0	1122.8	1115.1	1099.6	1104.2
50°	1004.8	1006.3	1004.8	1011.0	1011.0	1028.1	1039.0	1049.8	1057.6	1039.0	1017.3
52.5°	927.1	925.6	927.1	931.8	938.1	945.8	964.4	975.3	987.7	976.9	942.7
55°	849.5	852.6	849.5	851.1	854.2	858.9	886.8	897.7	920.9	907.0	871.3
57.5°	771.9	767.2	771.9	775.0	776.6	781.1	804.5	824.6	838.7	840.1	796.7
60°	681.8	675.6	681.8	695.8	698.8	701.9	723.7	742.3	754.8	759.4	714.4
62.5°	602.6	591.7	602.6	611.9	618.1	625.9	641.4	669.4	680.2	681.8	618.1
65°	518.7	514.1	518.7	537.3	538.9	548.2	565.3	585.5	608.8	605.7	514.1
67.5°	442.6	442.6	442.6	455.1	464.4	469.0	490.8	500.1	529.6	532.7	428.7
70°	372.8	371.2	372.8	382.0	388.3	399.1	419.3	430.2	453.5	461.2	347.9
72.5°	306.0	304.4	306.0	313.7	319.9	329.3	346.3	358.7	378.9	388.3	270.3
75°	247.0	243.8	247.0	253.1	251.6	264.0	278.0	290.5	309.1	315.2	200.3
77.5°	189.5	189.5	189.5	195.7	195.7	208.1	214.3	229.9	240.7	250.1	147.6
80°	141.3	139.8	141.3	142.9	142.9	149.1	160.0	170.9	180.1	180.1	100.9
82.5°	99.4	96.3	99.4	99.4	99.4	102.5	108.7	111.8	118.0	122.7	63.7
85°	62.1	62.1	62.1	63.7	62.1	65.2	66.8	69.9	69.9	66.8	38.8
87.5°	40.4	38.8	40.4	38.8	38.8	37.3	37.3	37.3	35.7	34.1	21.7
90°	14.5	14.5	14.5	14.5	14.5	19.4	25.8	29.0	25.0	16.8	10.6
92.5°	58.1	46.5	58.1	69.7	72.5	102.8	143.2	163.3	143.4	103.6	73.7
95°	202.5	167.6	202.5	237.5	246.2	323.3	426.1	477.5	403.2	254.8	143.5
97.5°	485.2	418.7	485.2	551.7	568.3	617.1	682.0	714.5	590.8	343.3	157.7
100°	699.1	619.9	699.1	778.3	798.1	794.5	789.9	787.5	650.2	375.5	169.5
102.5°	909.5	841.7	909.5	977.3	994.3	932.3	849.5	808.1	668.8	390.3	181.3
105°	1177.8	1141.3	1177.8	1214.3	1223.4	1084.2	898.6	805.8	670.9	401.2	198.9
107.5°	1353.5	1362.3	1353.5	1344.7	1342.5	1148.3	889.4	759.9	641.0	403.2	224.8
110°	1420.5	1458.5	1420.5	1382.5	1373.0	1155.9	866.5	721.8	614.6	400.1	239.3



TEST NUMBER: P935360

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1426.5	1484.8	1426.5	1368.1	1353.5	1131.3	835.2	687.1	591.5	400.3	256.9
115°	1388.7	1469.6	1388.7	1307.7	1287.5	1073.5	788.2	645.5	565.0	404.0	283.2
117.5°	1308.4	1398.2	1308.4	1218.7	1196.3	1003.1	745.6	616.9	548.4	411.5	308.8
120°	1243.8	1331.0	1243.8	1156.7	1134.8	958.3	723.1	605.4	542.8	417.6	323.7
122.5°	1180.9	1266.9	1180.9	1094.8	1073.3	914.4	702.5	596.6	539.9	426.4	341.3
125°	1091.0	1170.3	1091.0	1011.9	992.0	857.0	677.1	587.0	537.4	438.2	363.8
127.5°	1010.4	1077.2	1010.4	943.5	926.8	810.9	656.3	579.1	536.0	450.0	385.5
130°	962.8	1024.5	962.8	901.0	885.6	782.4	644.9	576.0	536.9	458.7	400.0
132.5°	919.5	974.9	919.5	864.3	850.4	758.0	634.9	573.3	537.4	465.6	411.9
135°	860.3	908.1	860.3	812.7	800.8	723.4	620.4	568.8	536.9	473.3	425.6
137.5°	813.0	852.0	813.0	773.9	764.2	698.7	611.6	568.0	540.2	484.7	443.2
140°	780.4	816.8	780.4	743.9	734.8	678.3	602.9	565.3	540.8	491.8	455.0
142.5°	753.4	784.8	753.4	722.0	714.2	664.5	598.3	565.3	542.7	497.7	463.8
145°	713.0	736.7	713.0	689.2	683.2	642.7	588.6	561.5	542.8	505.3	477.1
147.5°	681.9	701.6	681.9	662.3	657.3	625.4	582.8	561.5	546.5	516.5	493.9
150°	662.3	678.3	662.3	646.3	642.4	615.4	579.5	561.5	548.5	522.4	502.7
152.5°	645.6	657.7	645.6	633.6	630.5	607.5	576.9	561.5	549.7	526.1	508.4
155°	626.4	634.4	626.4	618.4	616.4	598.2	573.7	561.5	552.5	534.6	521.1
157.5°	611.3	616.9	611.3	605.6	604.2	590.0	571.0	561.5	555.3	542.9	533.6
160°	602.2	605.4	602.2	599.0	598.2	585.9	569.7	561.5	556.6	546.8	539.3
162.5°	596.2	599.3	596.2	593.1	592.4	582.1	568.4	561.5	558.0	550.8	545.5
165°	587.7	590.9	587.7	584.5	583.7	576.3	566.5	561.5	559.9	556.7	554.2
167.5°	581.5	582.8	581.5	580.2	579.8	574.9	568.5	565.3	563.9	561.3	559.2
170°	579.8	579.8	579.8	579.8	579.8	574.9	568.5	565.3	565.2	565.0	564.9
172.5°	575.3	574.1	575.3	576.5	576.8	572.9	567.9	565.3	565.3	565.3	565.3
175°	572.5	572.5	572.5	572.5	572.5	570.2	567.0	565.3	566.0	567.6	568.8
177.5°	570.2	568.8	570.2	571.4	571.8	569.9	567.3	566.0	566.7	567.9	568.8
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



TEST NUMBER: P935360

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1664.9	1655.5	1655.5	1640.0	1633.8	1629.1	1621.4	1598.1	1591.8	1585.7	1595.0
5°	1678.8	1661.8	1649.3	1621.4	1598.1	1588.7	1559.3	1503.4	1466.1	1438.1	1422.6
7.5°	1682.0	1660.2	1636.9	1593.4	1537.5	1512.6	1422.6	1320.1	1292.1	1267.2	1251.7
10°	1678.8	1654.0	1621.4	1556.1	1424.2	1380.7	1290.6	1223.7	1206.7	1202.1	1206.7
12.5°	1668.0	1644.7	1599.6	1490.9	1306.1	1276.6	1223.7	1184.9	1181.9	1189.6	1231.5
15°	1649.3	1627.6	1574.8	1404.0	1240.9	1219.2	1181.9	1167.9	1184.9	1239.3	1365.2
17.5°	1630.7	1605.9	1540.6	1318.5	1191.2	1175.7	1149.2	1177.2	1273.5	1346.4	1388.4
20°	1605.9	1576.3	1501.8	1256.4	1155.5	1141.5	1129.0	1254.9	1327.8	1354.2	1377.6
22.5°	1576.3	1545.3	1448.9	1212.9	1118.2	1107.3	1115.1	1298.4	1327.8	1346.4	1366.6
25°	1537.5	1511.1	1386.8	1178.8	1088.7	1076.3	1105.7	1293.7	1310.7	1315.4	1355.8
27.5°	1501.8	1467.6	1321.7	1147.7	1053.0	1048.3	1113.5	1273.5	1285.9	1290.6	1334.1
30°	1458.3	1407.0	1248.6	1115.1	1015.7	1014.1	1115.1	1248.6	1245.5	1258.0	1301.5
32.5°	1413.3	1317.0	1166.3	1074.7	980.0	978.4	1104.2	1211.4	1208.2	1225.3	1258.0
35°	1371.3	1247.1	1054.5	1028.1	934.9	936.5	1077.8	1167.9	1169.4	1184.9	1205.1
37.5°	1327.8	1186.5	931.8	976.9	891.4	891.4	1042.0	1127.5	1124.4	1129.0	1157.0
40°	1276.6	1091.8	823.1	910.1	851.1	846.4	998.6	1084.0	1073.2	1071.6	1110.4
42.5°	1222.3	987.7	742.3	821.5	804.5	798.3	945.8	1031.2	1011.0	1015.7	1065.4
45°	1163.2	959.8	680.2	694.2	756.4	751.7	888.3	970.6	956.7	969.1	1020.4
47.5°	1104.2	903.8	660.0	576.2	705.1	703.5	824.6	911.6	903.8	916.3	970.6
50°	1023.4	841.7	658.4	493.9	647.6	653.9	748.6	854.2	854.2	865.0	922.5
52.5°	919.4	765.6	597.9	447.3	580.8	599.4	681.8	804.5	807.6	818.5	869.7
55°	824.6	686.4	554.5	411.6	501.6	542.0	616.6	753.2	759.4	770.3	816.9
57.5°	737.7	571.5	545.1	369.6	428.7	467.5	559.1	703.5	706.6	716.0	761.0
60°	644.5	413.1	500.1	324.6	365.0	394.4	506.3	644.5	655.4	661.6	700.4
62.5°	538.9	299.7	453.5	293.5	333.9	340.1	462.8	588.6	602.6	607.2	630.5
65°	383.6	251.6	385.2	267.1	301.3	302.8	416.2	531.2	543.6	551.4	568.4
67.5°	259.3	205.0	293.5	242.3	276.4	278.0	371.2	464.4	481.4	487.7	498.5
70°	180.1	136.6	217.4	215.8	248.5	251.6	323.0	403.8	419.3	424.0	430.2
72.5°	132.0	110.3	180.1	194.1	219.0	222.1	273.3	335.4	351.0	355.6	358.7
75°	100.9	116.5	146.0	169.3	186.4	187.9	223.6	273.3	284.2	287.3	288.9
77.5°	80.8	108.7	107.2	136.6	152.2	149.1	175.5	211.3	220.5	220.5	220.5
80°	60.6	85.4	80.8	97.8	111.8	108.7	125.8	150.7	153.7	156.8	155.3
82.5°	45.1	54.3	54.3	62.1	74.5	71.4	83.9	97.8	97.8	97.8	100.9
85°	28.0	31.0	24.9	32.6	41.9	40.4	46.6	52.8	54.3	54.3	51.2
87.5°	17.1	13.9	7.8	12.4	18.6	18.6	21.7	23.3	21.7	21.7	21.7
90°	9.9	6.9	3.9	6.9	9.9	10.6	16.8	25.0	29.0	25.8	19.4
92.5°	67.2	41.2	15.2	41.2	67.2	73.7	103.6	143.4	163.3	143.2	102.8
95°	131.7	84.2	36.6	84.2	131.7	143.5	254.8	403.2	477.5	426.1	323.3
97.5°	147.2	105.3	63.3	105.3	147.2	157.7	343.3	590.8	714.5	682.0	617.1
100°	160.0	122.0	84.0	122.0	160.0	169.5	375.5	650.2	787.5	789.9	794.5
102.5°	172.4	137.0	101.5	137.0	172.4	181.3	390.3	668.8	808.1	849.5	932.3
105°	191.3	161.3	131.3	161.3	191.3	198.9	401.2	670.9	805.8	898.6	1084.2
107.5°	217.9	189.9	161.9	189.9	217.9	224.8	403.2	641.0	759.9	889.4	1148.3
110°	233.0	207.8	182.4	207.8	233.0	239.3	400.1	614.6	721.8	866.5	1155.9



TEST NUMBER: P935360

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	250.8	226.8	202.7	226.8	250.8	256.9	400.3	591.5	687.1	835.2	1131.3
115°	277.6	255.4	233.2	255.4	277.6	283.2	404.0	565.0	645.5	788.2	1073.5
117.5°	303.8	283.6	263.4	283.6	303.8	308.8	411.5	548.4	616.9	745.6	1003.1
120°	318.9	299.9	280.9	299.9	318.9	323.7	417.6	542.8	605.4	723.1	958.3
122.5°	336.5	317.3	298.2	317.3	336.5	341.3	426.4	539.9	596.6	702.5	914.4
125°	359.4	341.9	324.5	341.9	359.4	363.8	438.2	537.4	587.0	677.1	857.0
127.5°	381.1	363.4	345.8	363.4	381.1	385.5	450.0	536.0	579.1	656.3	810.9
130°	395.3	376.3	357.3	376.3	395.3	400.0	458.7	536.9	576.0	644.9	782.4
132.5°	407.1	388.1	369.1	388.1	407.1	411.9	465.6	537.4	573.3	634.9	758.0
135°	421.3	404.0	386.7	404.0	421.3	425.6	473.3	536.9	568.8	620.4	723.4
137.5°	438.8	421.8	404.6	421.8	438.8	443.2	484.7	540.2	568.0	611.6	698.7
140°	451.0	435.3	419.5	435.3	451.0	455.0	491.8	540.8	565.3	602.9	678.3
142.5°	460.1	445.5	430.9	445.5	460.1	463.8	497.7	542.7	565.3	598.3	664.5
145°	473.9	461.2	448.5	461.2	473.9	477.1	505.3	542.8	561.5	588.6	642.7
147.5°	490.8	478.5	466.1	478.5	490.8	493.9	516.5	546.5	561.5	582.8	625.4
150°	499.9	488.7	477.5	488.7	499.9	502.7	522.4	548.5	561.5	579.5	615.4
152.5°	506.3	497.8	489.3	497.8	506.3	508.4	526.1	549.7	561.5	576.9	607.5
155°	519.5	513.2	506.9	513.2	519.5	521.1	534.6	552.5	561.5	573.7	598.2
157.5°	532.1	526.0	519.9	526.0	532.1	533.6	542.9	555.3	561.5	571.0	590.0
160°	538.1	533.5	528.7	533.5	538.1	539.3	546.8	556.6	561.5	569.7	585.9
162.5°	544.6	541.0	537.4	541.0	544.6	545.5	550.8	558.0	561.5	568.4	582.1
165°	553.4	550.2	546.9	550.2	553.4	554.2	556.7	559.9	561.5	566.5	576.3
167.5°	558.9	557.3	555.8	557.3	558.9	559.2	561.3	563.9	565.3	568.5	574.9
170°	564.6	563.0	561.5	563.0	564.6	564.9	565.0	565.2	565.3	568.5	574.9
172.5°	565.2	564.9	564.6	564.9	565.2	565.3	565.3	565.3	565.3	567.9	572.9
175°	568.8	568.8	568.8	568.8	568.8	568.8	567.6	566.0	565.3	567.0	570.2
177.5°	568.8	568.8	568.8	568.8	568.8	568.8	567.9	566.7	566.0	567.3	569.9
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



TEST NUMBER: P935360

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1584.1	1579.4	1585.7	1568.5	1585.7	1579.4	1584.1	1595.0	1585.7	1591.8	1598.1
5°	1389.9	1382.2	1357.4	1337.2	1357.4	1382.2	1389.9	1422.6	1438.1	1466.1	1503.4
7.5°	1242.5	1236.2	1230.0	1217.6	1230.0	1236.2	1242.5	1251.7	1267.2	1292.1	1320.1
10°	1209.8	1211.4	1220.7	1219.2	1220.7	1211.4	1209.8	1206.7	1202.1	1206.7	1223.7
12.5°	1293.7	1307.6	1358.9	1355.8	1358.9	1307.6	1293.7	1231.5	1189.6	1181.9	1184.9
15°	1389.9	1394.6	1405.5	1407.0	1405.5	1394.6	1389.9	1365.2	1239.3	1184.9	1167.9
17.5°	1399.3	1400.9	1408.6	1408.6	1408.6	1400.9	1399.3	1388.4	1346.4	1273.5	1177.2
20°	1391.5	1394.6	1410.1	1413.3	1410.1	1394.6	1391.5	1377.6	1354.2	1327.8	1254.9
22.5°	1388.4	1394.6	1407.0	1405.5	1407.0	1394.6	1388.4	1366.6	1346.4	1327.8	1298.4
25°	1372.9	1372.9	1374.4	1376.0	1374.4	1372.9	1372.9	1355.8	1315.4	1310.7	1293.7
27.5°	1340.3	1343.4	1352.7	1351.1	1352.7	1343.4	1340.3	1334.1	1290.6	1285.9	1273.5
30°	1310.7	1307.6	1299.9	1293.7	1299.9	1307.6	1310.7	1301.5	1258.0	1245.5	1248.6
32.5°	1261.1	1253.3	1245.5	1240.9	1245.5	1253.3	1261.1	1258.0	1225.3	1208.2	1211.4
35°	1202.1	1203.6	1202.1	1197.4	1202.1	1203.6	1202.1	1205.1	1184.9	1169.4	1167.9
37.5°	1160.2	1163.2	1161.7	1155.5	1161.7	1163.2	1160.2	1157.0	1129.0	1124.4	1127.5
40°	1116.7	1118.2	1116.7	1112.0	1116.7	1118.2	1116.7	1110.4	1071.6	1073.2	1084.0
42.5°	1074.7	1073.2	1068.5	1065.4	1068.5	1073.2	1074.7	1065.4	1015.7	1011.0	1031.2
45°	1026.5	1028.1	1018.8	1014.1	1018.8	1028.1	1026.5	1020.4	969.1	956.7	970.6
47.5°	978.4	978.4	970.6	966.0	970.6	978.4	978.4	970.6	916.3	903.8	911.6
50°	927.1	925.6	914.8	913.2	914.8	925.6	927.1	922.5	865.0	854.2	854.2
52.5°	868.1	868.1	869.7	872.8	869.7	868.1	868.1	869.7	818.5	807.6	804.5
55°	816.9	818.5	829.3	832.4	829.3	818.5	816.9	816.9	770.3	759.4	753.2
57.5°	764.1	764.1	771.9	771.9	771.9	764.1	764.1	761.0	716.0	706.6	703.5
60°	703.5	706.6	712.9	711.3	712.9	706.6	703.5	700.4	661.6	655.4	644.5
62.5°	639.8	642.9	644.5	641.4	644.5	642.9	639.8	630.5	607.2	602.6	588.6
65°	573.1	576.2	577.7	574.7	577.7	576.2	573.1	568.4	551.4	543.6	531.2
67.5°	504.7	503.2	501.6	507.9	501.6	503.2	504.7	498.5	487.7	481.4	464.4
70°	434.8	434.8	433.3	436.4	433.3	434.8	434.8	430.2	424.0	419.3	403.8
72.5°	360.3	358.7	365.0	360.3	365.0	358.7	360.3	358.7	355.6	351.0	335.4
75°	287.3	290.5	287.3	292.0	287.3	290.5	287.3	288.9	287.3	284.2	273.3
77.5°	219.0	222.1	219.0	219.0	219.0	222.1	219.0	220.5	220.5	220.5	211.3
80°	155.3	153.7	153.7	152.2	153.7	153.7	155.3	155.3	156.8	153.7	150.7
82.5°	99.4	97.8	97.8	100.9	97.8	97.8	99.4	100.9	97.8	97.8	97.8
85°	54.3	55.9	52.8	52.8	52.8	55.9	54.3	51.2	54.3	54.3	52.8
87.5°	20.2	18.6	18.6	18.6	18.6	18.6	20.2	21.7	21.7	21.7	23.3
90°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	19.4	25.8	29.0	25.0
92.5°	72.5	69.7	58.1	46.5	58.1	69.7	72.5	102.8	143.2	163.3	143.4
95°	246.2	237.5	202.5	167.6	202.5	237.5	246.2	323.3	426.1	477.5	403.2
97.5°	568.3	551.7	485.2	418.7	485.2	551.7	568.3	617.1	682.0	714.5	590.8
100°	798.1	778.3	699.1	619.9	699.1	778.3	798.1	794.5	789.9	787.5	650.2
102.5°	994.3	977.3	909.5	841.7	909.5	977.3	994.3	932.3	849.5	808.1	668.8
105°	1223.4	1214.3	1177.8	1141.3	1177.8	1214.3	1223.4	1084.2	898.6	805.8	670.9
107.5°	1342.5	1344.7	1353.5	1362.3	1353.5	1344.7	1342.5	1148.3	889.4	759.9	641.0
110°	1373.0	1382.5	1420.5	1458.5	1420.5	1382.5	1373.0	1155.9	866.5	721.8	614.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1353.5	1368.1	1426.5	1484.8	1426.5	1368.1	1353.5	1131.3	835.2	687.1	591.5
115°	1287.5	1307.7	1388.7	1469.6	1388.7	1307.7	1287.5	1073.5	788.2	645.5	565.0
117.5°	1196.3	1218.7	1308.4	1398.2	1308.4	1218.7	1196.3	1003.1	745.6	616.9	548.4
120°	1134.8	1156.7	1243.8	1331.0	1243.8	1156.7	1134.8	958.3	723.1	605.4	542.8
122.5°	1073.3	1094.8	1180.9	1266.9	1180.9	1094.8	1073.3	914.4	702.5	596.6	539.9
125°	992.0	1011.9	1091.0	1170.3	1091.0	1011.9	992.0	857.0	677.1	587.0	537.4
127.5°	926.8	943.5	1010.4	1077.2	1010.4	943.5	926.8	810.9	656.3	579.1	536.0
130°	885.6	901.0	962.8	1024.5	962.8	901.0	885.6	782.4	644.9	576.0	536.9
132.5°	850.4	864.3	919.5	974.9	919.5	864.3	850.4	758.0	634.9	573.3	537.4
135°	800.8	812.7	860.3	908.1	860.3	812.7	800.8	723.4	620.4	568.8	536.9
137.5°	764.2	773.9	813.0	852.0	813.0	773.9	764.2	698.7	611.6	568.0	540.2
140°	734.8	743.9	780.4	816.8	780.4	743.9	734.8	678.3	602.9	565.3	540.8
142.5°	714.2	722.0	753.4	784.8	753.4	722.0	714.2	664.5	598.3	565.3	542.7
145°	683.2	689.2	713.0	736.7	713.0	689.2	683.2	642.7	588.6	561.5	542.8
147.5°	657.3	662.3	681.9	701.6	681.9	662.3	657.3	625.4	582.8	561.5	546.5
150°	642.4	646.3	662.3	678.3	662.3	646.3	642.4	615.4	579.5	561.5	548.5
152.5°	630.5	633.6	645.6	657.7	645.6	633.6	630.5	607.5	576.9	561.5	549.7
155°	616.4	618.4	626.4	634.4	626.4	618.4	616.4	598.2	573.7	561.5	552.5
157.5°	604.2	605.6	611.3	616.9	611.3	605.6	604.2	590.0	571.0	561.5	555.3
160°	598.2	599.0	602.2	605.4	602.2	599.0	598.2	585.9	569.7	561.5	556.6
162.5°	592.4	593.1	596.2	599.3	596.2	593.1	592.4	582.1	568.4	561.5	558.0
165°	583.7	584.5	587.7	590.9	587.7	584.5	583.7	576.3	566.5	561.5	559.9
167.5°	579.8	580.2	581.5	582.8	581.5	580.2	579.8	574.9	568.5	565.3	563.9
170°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	574.9	568.5	565.3	565.2
172.5°	576.8	576.5	575.3	574.1	575.3	576.5	576.8	572.9	567.9	565.3	565.3
175°	572.5	572.5	572.5	572.5	572.5	572.5	572.5	570.2	567.0	565.3	566.0
177.5°	571.8	571.4	570.2	568.8	570.2	571.4	571.8	569.9	567.3	566.0	566.7
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1621.4	1629.1	1633.8	1640.0	1655.5
5°	1559.3	1588.7	1598.1	1621.4	1649.3
7.5°	1422.6	1512.6	1537.5	1593.4	1636.9
10°	1290.6	1380.7	1424.2	1556.1	1621.4
12.5°	1223.7	1276.6	1306.1	1490.9	1599.6
15°	1181.9	1219.2	1240.9	1404.0	1574.8
17.5°	1149.2	1175.7	1191.2	1318.5	1540.6
20°	1129.0	1141.5	1155.5	1256.4	1501.8
22.5°	1115.1	1107.3	1118.2	1212.9	1448.9
25°	1105.7	1076.3	1088.7	1178.8	1386.8
27.5°	1113.5	1048.3	1053.0	1147.7	1321.7
30°	1115.1	1014.1	1015.7	1115.1	1248.6
32.5°	1104.2	978.4	980.0	1074.7	1166.3
35°	1077.8	936.5	934.9	1028.1	1054.5
37.5°	1042.0	891.4	891.4	976.9	931.8
40°	998.6	846.4	851.1	910.1	823.1
42.5°	945.8	798.3	804.5	821.5	742.3
45°	888.3	751.7	756.4	694.2	680.2
47.5°	824.6	703.5	705.1	576.2	660.0
50°	748.6	653.9	647.6	493.9	658.4
52.5°	681.8	599.4	580.8	447.3	597.9
55°	616.6	542.0	501.6	411.6	554.5
57.5°	559.1	467.5	428.7	369.6	545.1
60°	506.3	394.4	365.0	324.6	500.1
62.5°	462.8	340.1	333.9	293.5	453.5
65°	416.2	302.8	301.3	267.1	385.2
67.5°	371.2	278.0	276.4	242.3	293.5
70°	323.0	251.6	248.5	215.8	217.4
72.5°	273.3	222.1	219.0	194.1	180.1
75°	223.6	187.9	186.4	169.3	146.0
77.5°	175.5	149.1	152.2	136.6	107.2
80°	125.8	108.7	111.8	97.8	80.8
82.5°	83.9	71.4	74.5	62.1	54.3
85°	46.6	40.4	41.9	32.6	24.9
87.5°	21.7	18.6	18.6	12.4	7.8
90°	16.8	10.6	9.9	6.9	3.9
92.5°	103.6	73.7	67.2	41.2	15.2
95°	254.8	143.5	131.7	84.2	36.6
97.5°	343.3	157.7	147.2	105.3	63.3
100°	375.5	169.5	160.0	122.0	84.0
102.5°	390.3	181.3	172.4	137.0	101.5
105°	401.2	198.9	191.3	161.3	131.3
107.5°	403.2	224.8	217.9	189.9	161.9
110°	400.1	239.3	233.0	207.8	182.4



TEST NUMBER: P935360

CATALOG NUMBER: SQ4-FA-100U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	400.3	256.9	250.8	226.8	202.7
115°	404.0	283.2	277.6	255.4	233.2
117.5°	411.5	308.8	303.8	283.6	263.4
120°	417.6	323.7	318.9	299.9	280.9
122.5°	426.4	341.3	336.5	317.3	298.2
125°	438.2	363.8	359.4	341.9	324.5
127.5°	450.0	385.5	381.1	363.4	345.8
130°	458.7	400.0	395.3	376.3	357.3
132.5°	465.6	411.9	407.1	388.1	369.1
135°	473.3	425.6	421.3	404.0	386.7
137.5°	484.7	443.2	438.8	421.8	404.6
140°	491.8	455.0	451.0	435.3	419.5
142.5°	497.7	463.8	460.1	445.5	430.9
145°	505.3	477.1	473.9	461.2	448.5
147.5°	516.5	493.9	490.8	478.5	466.1
150°	522.4	502.7	499.9	488.7	477.5
152.5°	526.1	508.4	506.3	497.8	489.3
155°	534.6	521.1	519.5	513.2	506.9
157.5°	542.9	533.6	532.1	526.0	519.9
160°	546.8	539.3	538.1	533.5	528.7
162.5°	550.8	545.5	544.6	541.0	537.4
165°	556.7	554.2	553.4	550.2	546.9
167.5°	561.3	559.2	558.9	557.3	555.8
170°	565.0	564.9	564.6	563.0	561.5
172.5°	565.3	565.3	565.2	564.9	564.6
175°	567.6	568.8	568.8	568.8	568.8
177.5°	567.9	568.8	568.8	568.8	568.8
180°	568.8	568.8	568.8	568.8	568.8



TEST NUMBER: P935360
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.58	15.48	15.51	16.42	17.64	17.38	18.27	18.30	19.22	20.44
	3H	15.06	15.86	16.00	16.82	18.06	18.72	19.52	19.66	20.47	21.72
	4H	15.25	16.01	16.21	16.97	18.22	19.16	19.92	20.11	20.87	22.12
	6H	15.38	16.07	16.34	17.04	18.30	19.44	20.13	20.40	21.10	22.36
	8H	15.38	16.04	16.35	17.02	18.29	19.51	20.17	20.48	21.15	22.41
	12H	15.35	15.98	16.33	16.96	18.24	19.54	20.18	20.52	21.15	22.44
4H	2H	15.61	16.37	16.57	17.33	18.58	17.79	18.55	18.75	19.51	20.76
	3H	16.64	17.27	17.61	18.26	19.53	19.29	19.93	20.26	20.91	22.18
	4H	16.92	17.50	17.90	18.48	19.77	19.82	20.39	20.79	21.38	22.67
	6H	17.05	17.54	18.04	18.55	19.84	20.18	20.67	21.17	21.68	22.97
	8H	17.05	17.52	18.04	18.51	19.82	20.28	20.74	21.27	21.74	23.04
	12H	17.02	17.44	18.03	18.45	19.76	20.33	20.75	21.34	21.77	23.07
8H	4H	17.37	17.83	18.36	18.83	20.14	19.95	20.41	20.94	21.41	22.71
	6H	17.63	18.02	18.65	19.06	20.36	20.37	20.76	21.39	21.80	23.10
	8H	17.68	18.01	18.70	19.04	20.36	20.52	20.86	21.55	21.89	23.21
	12H	17.66	17.96	18.69	18.98	20.34	20.62	20.91	21.64	21.94	23.30
12H	4H	17.38	17.80	18.39	18.81	20.12	19.91	20.33	20.92	21.34	22.65
	6H	17.69	18.03	18.72	19.06	20.38	20.37	20.71	21.40	21.74	23.06
	8H	17.76	18.06	18.79	19.08	20.44	20.53	20.83	21.56	21.85	23.21