

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: P934534

Luminaire Tested: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934534
REPORT IS A COMBINATION OF REPORTS P933702 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

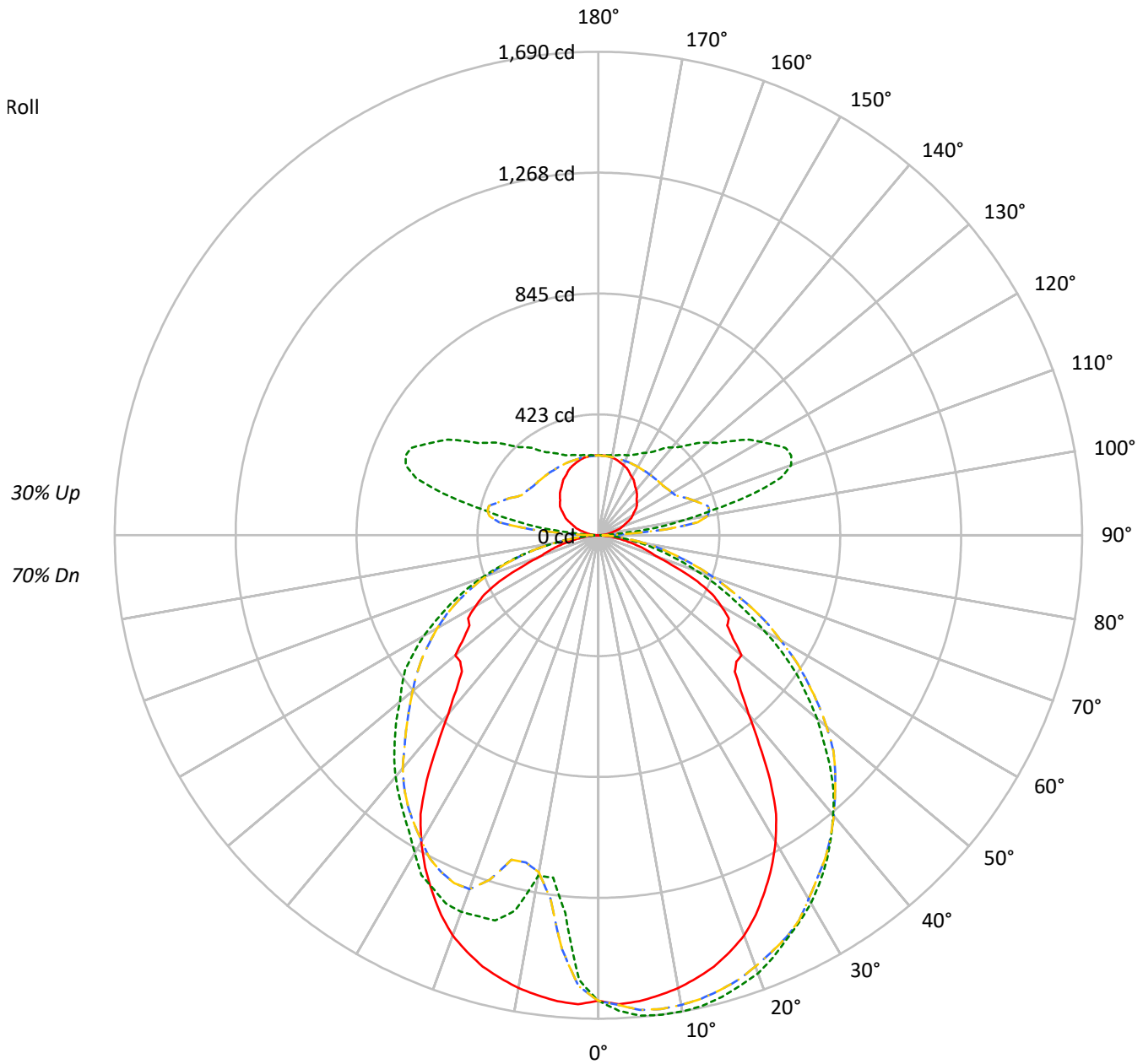
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6030.9 lumens
Efficiency: N/A
Efficacy: 107.7 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: Semi-Direct

Input Watts (W): 56
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	50	30	10	0
RCR																					
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15099	15099	15099	15099
5°	15194	15241	15194	11984
10°	15076	15014	15076	10734
15°	14895	14689	14895	12265
20°	14567	14304	14567	12290
25°	13912	13740	13912	12030
30°	13073	13274	13073	11458
35°	11637	12684	11637	10830
40°	9680	11989	9680	10355
45°	8632	11176	8632	9809
50°	9150	10206	9150	9261
55°	8585	9161	8585	8944
60°	8818	7781	8818	8193
65°	7956	6432	7956	7190
70°	5471	5125	5471	6025
75°	4745	3789	4745	4537
80°	3744	2504	3744	2726
85°	2045	1327	2045	1127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13256 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	2.4
10°-20°	417.0	6.9
20°-30°	644.7	10.7
30°-40°	769.6	12.8
40°-50°	774.1	12.8
50°-60°	673.5	11.2
60°-70°	477.5	7.9
70°-80°	252.7	4.2
80°-90°	64.0	1.1
90°-100°	136.2	2.3
100°-110°	358.0	5.9
110°-120°	371.2	6.2
120°-130°	297.8	4.9
130°-140°	233.6	3.9
140°-150°	179.3	3.0
150°-160°	129.1	2.1
160°-170°	79.0	1.3
170°-180°	26.7	0.4
0°-30°	1208.6	20.0
0°-40°	1978.1	32.8
0°-60°	3425.8	56.8
0°-90°	4220.0	70.0
90°-120°	865.4	14.3
90°-150°	1576.0	26.1
90°-180°	1811.0	30.0
0°-180°	6030.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1627	1627	1627	1627	1627	
5°	1635	1686	1635	1325	1635	155
15°	1561	1670	1561	1395	1561	439
25°	1375	1558	1375	1364	1375	631
35°	1045	1390	1045	1187	1045	647
45°	674	1145	674	1005	674	540
55°	550	845	550	825	550	505
65°	382	510	382	570	382	365
75°	145	242	145	289	145	152
85°	25	62	25	52	25	33
90°	2	7	2	7	2	3
95°	18	82	18	82	18	20
105°	64	561	64	561	64	68
115°	114	722	114	722	114	113
125°	159	575	159	575	159	142
135°	190	446	190	446	190	147
145°	220	362	220	362	220	138
155°	249	312	249	312	249	114
165°	269	290	269	290	269	76
175°	279	281	279	281	279	27
180°	279	279	279	279	279	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1641.0	1641.0	1650.3	1653.4	1653.4	1648.7	1644.1	1648.7	1662.5	1667.2	1665.6
5°	1634.8	1647.2	1664.1	1667.2	1670.3	1668.7	1665.6	1668.7	1684.1	1687.2	1688.7
7.5°	1622.5	1645.6	1667.2	1671.8	1676.4	1671.8	1670.3	1673.4	1688.7	1691.8	1691.8
10°	1607.1	1639.4	1664.1	1667.2	1671.8	1667.2	1667.2	1673.4	1688.7	1691.8	1693.4
12.5°	1585.6	1630.3	1653.4	1656.4	1662.5	1661.0	1659.5	1665.6	1681.0	1684.1	1684.1
15°	1560.9	1613.3	1634.8	1637.9	1648.7	1645.6	1645.6	1651.8	1668.7	1673.4	1671.8
17.5°	1527.1	1591.8	1616.3	1621.0	1628.7	1627.2	1628.7	1634.8	1650.3	1653.4	1654.8
20°	1488.6	1562.5	1591.8	1596.3	1604.1	1604.1	1604.1	1611.8	1627.2	1633.3	1633.3
22.5°	1436.2	1531.7	1562.5	1565.6	1574.8	1574.8	1577.9	1588.7	1602.5	1604.1	1604.1
25°	1374.6	1497.8	1524.0	1533.3	1542.5	1547.1	1551.7	1557.8	1562.5	1560.9	1562.5
27.5°	1310.1	1454.7	1488.6	1494.7	1507.1	1511.7	1517.8	1519.4	1520.9	1525.6	1522.5
30°	1237.7	1394.7	1445.5	1451.7	1471.7	1474.7	1468.6	1471.7	1479.3	1482.4	1485.5
32.5°	1156.1	1305.4	1400.8	1414.7	1433.2	1423.9	1422.4	1427.0	1439.3	1439.3	1442.4
35°	1045.3	1236.1	1359.3	1371.6	1385.5	1374.6	1380.8	1382.4	1390.1	1394.7	1393.2
37.5°	923.6	1176.1	1316.2	1325.4	1336.2	1322.3	1331.6	1336.2	1342.4	1339.3	1339.3
40°	815.9	1082.2	1265.4	1271.6	1280.8	1270.0	1279.2	1282.3	1285.4	1282.3	1280.8
42.5°	735.8	979.0	1211.5	1219.2	1213.0	1220.7	1223.8	1230.0	1225.4	1219.2	1219.2
45°	674.2	951.4	1153.0	1162.2	1153.0	1165.3	1170.0	1170.0	1156.1	1153.0	1151.5
47.5°	654.2	895.9	1094.5	1094.5	1089.9	1105.3	1112.9	1102.2	1088.4	1083.7	1083.7
50°	652.7	834.3	1014.4	1008.3	1029.9	1048.4	1040.6	1029.9	1019.1	1002.1	1002.1
52.5°	592.6	758.9	911.4	934.4	968.3	979.0	966.8	955.9	937.5	929.8	923.6
55°	549.6	680.4	817.4	863.6	899.0	912.8	889.8	879.0	851.3	846.7	843.6
57.5°	540.3	566.5	731.3	789.7	832.8	831.3	817.4	797.4	774.3	769.7	768.2
60°	495.7	409.5	638.8	708.2	752.7	748.2	735.8	717.3	695.8	692.7	689.7
62.5°	449.5	297.1	534.1	612.6	675.8	674.2	663.5	635.7	620.4	612.6	606.5
65°	381.8	249.4	380.2	509.6	600.4	603.5	580.3	560.3	543.4	534.1	532.6
67.5°	290.9	203.2	257.1	424.9	528.0	525.0	495.7	486.5	464.9	460.3	451.1
70°	215.5	135.4	178.6	344.8	457.2	449.5	426.4	415.6	395.6	384.9	378.7
72.5°	178.6	109.3	130.8	267.9	384.9	375.6	355.6	343.3	326.4	317.1	310.9
75°	144.7	115.4	100.1	198.6	312.5	306.4	287.9	275.5	261.7	249.4	250.9
77.5°	106.2	107.8	80.0	146.3	247.9	238.6	227.9	212.4	206.3	193.9	193.9
80°	80.0	84.7	60.0	100.1	178.6	178.6	169.4	158.5	147.8	141.6	141.6
82.5°	53.9	53.9	44.7	63.1	121.6	117.0	110.8	107.8	101.6	98.5	98.5
85°	24.7	30.7	27.7	38.5	66.2	69.3	69.3	66.2	64.7	61.6	63.1
87.5°	7.7	13.8	16.9	21.6	33.8	35.4	36.9	36.9	36.9	38.5	38.5
90°	1.9	3.4	4.9	5.3	8.3	12.3	14.3	12.6	9.5	7.1	7.1
92.5°	7.5	20.2	33.0	36.2	50.8	70.4	80.2	70.3	50.5	35.7	34.2
95°	18.0	41.3	64.7	70.5	125.2	198.0	234.5	209.2	158.7	120.9	116.6
97.5°	31.1	51.7	72.2	77.4	168.6	290.2	350.9	335.0	303.1	279.2	271.0
100°	41.2	59.9	78.6	83.2	184.4	319.3	386.8	388.0	390.3	392.1	382.3
102.5°	49.8	67.3	84.7	89.1	191.7	328.5	396.9	417.3	457.9	488.4	480.0
105°	64.5	79.2	94.0	97.7	197.0	329.6	395.8	441.4	532.5	600.9	596.4
107.5°	79.5	93.2	107.0	110.4	198.0	314.9	373.3	436.9	564.1	659.4	660.5
110°	89.6	102.0	114.4	117.5	196.6	301.9	354.6	425.6	567.8	674.4	679.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	99.5	111.3	123.2	126.2	196.6	290.5	337.5	410.2	555.7	664.9	672.0
115°	114.5	125.4	136.4	139.1	198.4	277.4	317.0	387.1	527.2	632.4	642.3
117.5°	129.4	139.3	149.2	151.6	202.1	269.3	303.0	366.2	492.7	587.5	598.5
120°	138.0	147.4	156.6	159.0	205.1	266.6	297.4	355.1	470.7	557.4	568.2
122.5°	146.5	155.9	165.3	167.6	209.4	265.2	293.0	345.0	449.2	527.2	537.8
125°	159.4	167.9	176.5	178.7	215.2	264.0	288.4	332.6	421.0	487.3	497.0
127.5°	169.8	178.6	187.2	189.4	221.0	263.3	284.4	322.4	398.2	455.2	463.4
130°	175.5	184.8	194.1	196.5	225.3	263.7	282.9	316.7	384.3	435.0	442.5
132.5°	181.3	190.7	199.9	202.3	228.8	264.0	281.6	311.8	372.3	417.7	424.5
135°	189.9	198.4	206.9	209.0	232.5	263.7	279.3	304.6	355.3	393.3	399.1
137.5°	198.8	207.1	215.6	217.7	238.1	265.3	279.0	300.4	343.2	375.3	380.1
140°	206.0	213.8	221.6	223.5	241.5	265.6	277.6	296.2	333.2	360.9	365.4
142.5°	211.7	218.9	226.0	227.8	244.4	266.5	277.6	293.9	326.4	350.8	354.6
145°	220.3	226.5	232.8	234.3	248.1	266.6	275.8	289.1	315.6	335.6	338.5
147.5°	229.0	235.1	241.1	242.6	253.7	268.4	275.8	286.3	307.2	322.8	325.3
150°	234.5	240.0	245.5	246.9	256.5	269.3	275.8	284.6	302.3	315.6	317.6
152.5°	240.3	244.5	248.7	249.7	258.4	270.0	275.8	283.4	298.5	309.7	311.2
155°	249.0	252.1	255.2	255.9	262.5	271.3	275.8	281.8	293.8	302.8	303.8
157.5°	255.3	258.3	261.3	262.1	266.6	272.7	275.8	280.4	289.8	296.8	297.5
160°	259.7	262.0	264.3	264.9	268.5	273.3	275.8	279.8	287.8	293.8	294.2
162.5°	264.0	265.7	267.4	267.9	270.5	274.1	275.8	279.2	285.9	291.0	291.4
165°	268.7	270.3	271.9	272.3	273.4	275.0	275.8	278.2	283.0	286.6	287.0
167.5°	273.0	273.7	274.4	274.6	275.6	277.0	277.6	279.3	282.4	284.8	285.0
170°	275.8	276.5	277.3	277.4	277.5	277.6	277.6	279.3	282.4	284.8	284.8
172.5°	277.3	277.4	277.6	277.6	277.6	277.6	277.6	278.9	281.4	283.3	283.1
175°	279.3	279.3	279.3	279.3	278.8	278.0	277.6	278.4	280.1	281.3	281.3
177.5°	279.3	279.3	279.3	279.3	278.9	278.3	278.1	278.7	280.0	280.9	280.7
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1668.7	1664.1	1668.7	1665.6	1667.2	1662.5	1648.7	1644.1	1648.7	1653.4	1653.4
5°	1688.7	1685.6	1688.7	1688.7	1687.2	1684.1	1668.7	1665.6	1668.7	1670.3	1667.2
7.5°	1694.8	1690.3	1694.8	1691.8	1691.8	1688.7	1673.4	1670.3	1671.8	1676.4	1671.8
10°	1694.8	1690.3	1694.8	1693.4	1691.8	1688.7	1673.4	1667.2	1667.2	1671.8	1667.2
12.5°	1687.2	1684.1	1687.2	1684.1	1684.1	1681.0	1665.6	1659.5	1661.0	1662.5	1656.4
15°	1674.8	1670.3	1674.8	1671.8	1673.4	1668.7	1651.8	1645.6	1645.6	1648.7	1637.9
17.5°	1656.4	1650.3	1656.4	1654.8	1653.4	1650.3	1634.8	1628.7	1627.2	1628.7	1621.0
20°	1634.8	1630.3	1634.8	1633.3	1633.3	1627.2	1611.8	1604.1	1604.1	1604.1	1596.3
22.5°	1601.0	1596.3	1601.0	1604.1	1604.1	1602.5	1588.7	1577.9	1574.8	1574.8	1565.6
25°	1562.5	1557.8	1562.5	1562.5	1560.9	1562.5	1557.8	1551.7	1547.1	1542.5	1533.3
27.5°	1525.6	1522.5	1525.6	1522.5	1525.6	1520.9	1519.4	1517.8	1511.7	1507.1	1494.7
30°	1488.6	1485.5	1488.6	1485.5	1482.4	1479.3	1471.7	1468.6	1474.7	1471.7	1451.7
32.5°	1442.4	1439.3	1442.4	1442.4	1439.3	1439.3	1427.0	1422.4	1423.9	1433.2	1414.7
35°	1394.7	1390.1	1394.7	1393.2	1394.7	1390.1	1382.4	1380.8	1374.6	1385.5	1371.6
37.5°	1339.3	1334.6	1339.3	1339.3	1339.3	1342.4	1336.2	1331.6	1322.3	1336.2	1325.4
40°	1282.3	1276.1	1282.3	1280.8	1282.3	1285.4	1282.3	1279.2	1270.0	1280.8	1271.6
42.5°	1217.6	1216.1	1217.6	1219.2	1219.2	1225.4	1230.0	1223.8	1220.7	1213.0	1219.2
45°	1148.4	1145.3	1148.4	1151.5	1153.0	1156.1	1170.0	1170.0	1165.3	1153.0	1162.2
47.5°	1074.5	1066.8	1074.5	1083.7	1083.7	1088.4	1102.2	1112.9	1105.3	1089.9	1094.5
50°	996.0	997.5	996.0	1002.1	1002.1	1019.1	1029.9	1040.6	1048.4	1029.9	1008.3
52.5°	919.0	917.5	919.0	923.6	929.8	937.5	955.9	966.8	979.0	968.3	934.4
55°	842.1	845.1	842.1	843.6	846.7	851.3	879.0	889.8	912.8	899.0	863.6
57.5°	765.1	760.5	765.1	768.2	769.7	774.3	797.4	817.4	831.3	832.8	789.7
60°	675.8	669.7	675.8	689.7	692.7	695.8	717.3	735.8	748.2	752.7	708.2
62.5°	597.3	586.5	597.3	606.5	612.6	620.4	635.7	663.5	674.2	675.8	612.6
65°	514.1	509.6	514.1	532.6	534.1	543.4	560.3	580.3	603.5	600.4	509.6
67.5°	438.7	438.7	438.7	451.1	460.3	464.9	486.5	495.7	525.0	528.0	424.9
70°	369.5	367.9	369.5	378.7	384.9	395.6	415.6	426.4	449.5	457.2	344.8
72.5°	303.3	301.7	303.3	310.9	317.1	326.4	343.3	355.6	375.6	384.9	267.9
75°	244.8	241.7	244.8	250.9	249.4	261.7	275.5	287.9	306.4	312.5	198.6
77.5°	187.8	187.8	187.8	193.9	193.9	206.3	212.4	227.9	238.6	247.9	146.3
80°	140.1	138.5	140.1	141.6	141.6	147.8	158.5	169.4	178.6	178.6	100.1
82.5°	98.5	95.4	98.5	98.5	98.5	101.6	107.8	110.8	117.0	121.6	63.1
85°	61.6	61.6	61.6	63.1	61.6	64.7	66.2	69.3	69.3	66.2	38.5
87.5°	40.0	38.5	40.0	38.5	38.5	36.9	36.9	36.9	35.4	33.8	21.6
90°	7.1	7.1	7.1	7.1	7.1	9.5	12.6	14.3	12.3	8.3	5.3
92.5°	28.6	22.8	28.6	34.2	35.7	50.5	70.3	80.2	70.4	50.8	36.2
95°	99.4	82.3	99.4	116.6	120.9	158.7	209.2	234.5	198.0	125.2	70.5
97.5°	238.3	205.7	238.3	271.0	279.2	303.1	335.0	350.9	290.2	168.6	77.4
100°	343.4	304.5	343.4	382.3	392.1	390.3	388.0	386.8	319.3	184.4	83.2
102.5°	446.7	413.4	446.7	480.0	488.4	457.9	417.3	396.9	328.5	191.7	89.1
105°	578.5	560.6	578.5	596.4	600.9	532.5	441.4	395.8	329.6	197.0	97.7
107.5°	664.8	669.1	664.8	660.5	659.4	564.1	436.9	373.3	314.9	198.0	110.4
110°	697.7	716.3	697.7	679.0	674.4	567.8	425.6	354.6	301.9	196.6	117.5



TEST NUMBER: P934534

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	700.7	729.3	700.7	672.0	664.9	555.7	410.2	337.5	290.5	196.6	126.2
115°	682.0	721.8	682.0	642.3	632.4	527.2	387.1	317.0	277.4	198.4	139.1
117.5°	642.7	686.8	642.7	598.5	587.5	492.7	366.2	303.0	269.3	202.1	151.6
120°	610.9	653.8	610.9	568.2	557.4	470.7	355.1	297.4	266.6	205.1	159.0
122.5°	580.1	622.3	580.1	537.8	527.2	449.2	345.0	293.0	265.2	209.4	167.6
125°	535.9	574.8	535.9	497.0	487.3	421.0	332.6	288.4	264.0	215.2	178.7
127.5°	496.2	529.0	496.2	463.4	455.2	398.2	322.4	284.4	263.3	221.0	189.4
130°	472.9	503.2	472.9	442.5	435.0	384.3	316.7	282.9	263.7	225.3	196.5
132.5°	451.6	478.8	451.6	424.5	417.7	372.3	311.8	281.6	264.0	228.8	202.3
135°	422.6	446.0	422.6	399.1	393.3	355.3	304.6	279.3	263.7	232.5	209.0
137.5°	399.2	418.4	399.2	380.1	375.3	343.2	300.4	279.0	265.3	238.1	217.7
140°	383.3	401.2	383.3	365.4	360.9	333.2	296.2	277.6	265.6	241.5	223.5
142.5°	370.0	385.5	370.0	354.6	350.8	326.4	293.9	277.6	266.5	244.4	227.8
145°	350.2	361.9	350.2	338.5	335.6	315.6	289.1	275.8	266.6	248.1	234.3
147.5°	334.9	344.6	334.9	325.3	322.8	307.2	286.3	275.8	268.4	253.7	242.6
150°	325.4	333.2	325.4	317.6	315.6	302.3	284.6	275.8	269.3	256.5	246.9
152.5°	317.1	323.0	317.1	311.2	309.7	298.5	283.4	275.8	270.0	258.4	249.7
155°	307.7	311.6	307.7	303.8	302.8	293.8	281.8	275.8	271.3	262.5	255.9
157.5°	300.3	303.0	300.3	297.5	296.8	289.8	280.4	275.8	272.7	266.6	262.1
160°	295.8	297.4	295.8	294.2	293.8	287.8	279.8	275.8	273.3	268.5	264.9
162.5°	292.9	294.4	292.9	291.4	291.0	285.9	279.2	275.8	274.1	270.5	267.9
165°	288.6	290.3	288.6	287.0	286.6	283.0	278.2	275.8	275.0	273.4	272.3
167.5°	285.6	286.3	285.6	285.0	284.8	282.4	279.3	277.6	277.0	275.6	274.6
170°	284.8	284.8	284.8	284.8	284.8	282.4	279.3	277.6	277.6	277.5	277.4
172.5°	282.5	282.0	282.5	283.1	283.3	281.4	278.9	277.6	277.6	277.6	277.6
175°	281.3	281.3	281.3	281.3	281.3	280.1	278.4	277.6	278.0	278.8	279.3
177.5°	280.1	279.3	280.1	280.7	280.9	280.0	278.7	278.1	278.3	278.9	279.3
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934534

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1650.3	1641.0	1641.0	1625.6	1619.4	1614.8	1607.1	1584.0	1577.9	1571.8	1580.9
5°	1664.1	1647.2	1634.8	1607.1	1584.0	1574.8	1545.6	1490.2	1453.2	1425.5	1410.1
7.5°	1667.2	1645.6	1622.5	1579.4	1524.0	1499.4	1410.1	1308.5	1280.8	1256.1	1240.7
10°	1664.1	1639.4	1607.1	1542.5	1411.7	1368.5	1279.2	1213.0	1196.1	1191.5	1196.1
12.5°	1653.4	1630.3	1585.6	1477.8	1294.6	1265.4	1213.0	1174.5	1171.5	1179.2	1220.7
15°	1634.8	1613.3	1560.9	1391.7	1230.0	1208.5	1171.5	1157.6	1174.5	1228.5	1353.2
17.5°	1616.3	1591.8	1527.1	1307.0	1180.7	1165.3	1139.1	1166.9	1262.3	1334.6	1376.2
20°	1591.8	1562.5	1488.6	1245.4	1145.3	1131.5	1119.1	1243.8	1316.2	1342.4	1365.5
22.5°	1562.5	1531.7	1436.2	1202.3	1108.4	1097.6	1105.3	1287.0	1316.2	1334.6	1354.6
25°	1524.0	1497.8	1374.6	1168.4	1079.1	1066.8	1096.0	1282.3	1299.2	1303.9	1343.9
27.5°	1488.6	1454.7	1310.1	1137.6	1043.7	1039.1	1103.8	1262.3	1274.6	1279.2	1322.3
30°	1445.5	1394.7	1237.7	1105.3	1006.8	1005.2	1105.3	1237.7	1234.6	1246.9	1290.0
32.5°	1400.8	1305.4	1156.1	1065.3	971.4	969.9	1094.5	1200.7	1197.6	1214.5	1246.9
35°	1359.3	1236.1	1045.3	1019.1	926.7	928.3	1068.4	1157.6	1159.2	1174.5	1194.5
37.5°	1316.2	1176.1	923.6	968.3	883.6	883.6	1032.9	1117.6	1114.5	1119.1	1146.9
40°	1265.4	1082.2	815.9	902.1	843.6	839.0	989.9	1074.5	1063.7	1062.2	1100.7
42.5°	1211.5	979.0	735.8	814.3	797.4	791.3	937.5	1022.2	1002.1	1006.8	1056.0
45°	1153.0	951.4	674.2	688.1	749.7	745.1	880.5	962.1	948.3	960.6	1011.4
47.5°	1094.5	895.9	654.2	571.2	698.9	697.3	817.4	903.6	895.9	908.3	962.1
50°	1014.4	834.3	652.7	489.6	641.9	648.1	742.0	846.7	846.7	857.4	914.4
52.5°	911.4	758.9	592.6	443.4	575.7	594.2	675.8	797.4	800.5	811.3	862.1
55°	817.4	680.4	549.6	408.0	497.2	537.2	611.2	746.6	752.7	763.5	809.8
57.5°	731.3	566.5	540.3	366.4	424.9	463.4	554.2	697.3	700.4	709.7	754.3
60°	638.8	409.5	495.7	321.7	361.8	391.0	501.8	638.8	649.7	655.8	694.2
62.5°	534.1	297.1	449.5	290.9	330.9	337.1	458.7	583.4	597.3	601.9	625.0
65°	380.2	249.4	381.8	264.8	298.6	300.2	412.5	526.5	538.8	546.5	563.4
67.5°	257.1	203.2	290.9	240.1	274.0	275.5	367.9	460.3	477.2	483.4	494.1
70°	178.6	135.4	215.5	213.9	246.3	249.4	320.2	400.2	415.6	420.3	426.4
72.5°	130.8	109.3	178.6	192.4	217.0	220.1	270.9	332.5	347.9	352.5	355.6
75°	100.1	115.4	144.7	167.8	184.7	186.3	221.7	270.9	281.7	284.8	286.4
77.5°	80.0	107.8	106.2	135.4	150.8	147.8	173.9	209.4	218.6	218.6	218.6
80°	60.0	84.7	80.0	97.0	110.8	107.8	124.7	149.4	152.4	155.5	153.9
82.5°	44.7	53.9	53.9	61.6	73.9	70.8	83.1	97.0	97.0	97.0	100.1
85°	27.7	30.7	24.7	32.3	41.6	40.0	46.2	52.3	53.9	53.9	50.8
87.5°	16.9	13.8	7.7	12.3	18.5	18.5	21.6	23.1	21.6	21.6	21.6
90°	4.9	3.4	1.9	3.4	4.9	5.3	8.3	12.3	14.3	12.6	9.5
92.5°	33.0	20.2	7.5	20.2	33.0	36.2	50.8	70.4	80.2	70.3	50.5
95°	64.7	41.3	18.0	41.3	64.7	70.5	125.2	198.0	234.5	209.2	158.7
97.5°	72.2	51.7	31.1	51.7	72.2	77.4	168.6	290.2	350.9	335.0	303.1
100°	78.6	59.9	41.2	59.9	78.6	83.2	184.4	319.3	386.8	388.0	390.3
102.5°	84.7	67.3	49.8	67.3	84.7	89.1	191.7	328.5	396.9	417.3	457.9
105°	94.0	79.2	64.5	79.2	94.0	97.7	197.0	329.6	395.8	441.4	532.5
107.5°	107.0	93.2	79.5	93.2	107.0	110.4	198.0	314.9	373.3	436.9	564.1
110°	114.4	102.0	89.6	102.0	114.4	117.5	196.6	301.9	354.6	425.6	567.8



TEST NUMBER: P934534

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	123.2	111.3	99.5	111.3	123.2	126.2	196.6	290.5	337.5	410.2	555.7
115°	136.4	125.4	114.5	125.4	136.4	139.1	198.4	277.4	317.0	387.1	527.2
117.5°	149.2	139.3	129.4	139.3	149.2	151.6	202.1	269.3	303.0	366.2	492.7
120°	156.6	147.4	138.0	147.4	156.6	159.0	205.1	266.6	297.4	355.1	470.7
122.5°	165.3	155.9	146.5	155.9	165.3	167.6	209.4	265.2	293.0	345.0	449.2
125°	176.5	167.9	159.4	167.9	176.5	178.7	215.2	264.0	288.4	332.6	421.0
127.5°	187.2	178.6	169.8	178.6	187.2	189.4	221.0	263.3	284.4	322.4	398.2
130°	194.1	184.8	175.5	184.8	194.1	196.5	225.3	263.7	282.9	316.7	384.3
132.5°	199.9	190.7	181.3	190.7	199.9	202.3	228.8	264.0	281.6	311.8	372.3
135°	206.9	198.4	189.9	198.4	206.9	209.0	232.5	263.7	279.3	304.6	355.3
137.5°	215.6	207.1	198.8	207.1	215.6	217.7	238.1	265.3	279.0	300.4	343.2
140°	221.6	213.8	206.0	213.8	221.6	223.5	241.5	265.6	277.6	296.2	333.2
142.5°	226.0	218.9	211.7	218.9	226.0	227.8	244.4	266.5	277.6	293.9	326.4
145°	232.8	226.5	220.3	226.5	232.8	234.3	248.1	266.6	275.8	289.1	315.6
147.5°	241.1	235.1	229.0	235.1	241.1	242.6	253.7	268.4	275.8	286.3	307.2
150°	245.5	240.0	234.5	240.0	245.5	246.9	256.5	269.3	275.8	284.6	302.3
152.5°	248.7	244.5	240.3	244.5	248.7	249.7	258.4	270.0	275.8	283.4	298.5
155°	255.2	252.1	249.0	252.1	255.2	255.9	262.5	271.3	275.8	281.8	293.8
157.5°	261.3	258.3	255.3	258.3	261.3	262.1	266.6	272.7	275.8	280.4	289.8
160°	264.3	262.0	259.7	262.0	264.3	264.9	268.5	273.3	275.8	279.8	287.8
162.5°	267.4	265.7	264.0	265.7	267.4	267.9	270.5	274.1	275.8	279.2	285.9
165°	271.9	270.3	268.7	270.3	271.9	272.3	273.4	275.0	275.8	278.2	283.0
167.5°	274.4	273.7	273.0	273.7	274.4	274.6	275.6	277.0	277.6	279.3	282.4
170°	277.3	276.5	275.8	276.5	277.3	277.4	277.5	277.6	277.6	279.3	282.4
172.5°	277.6	277.4	277.3	277.4	277.6	277.6	277.6	277.6	277.6	278.9	281.4
175°	279.3	279.3	279.3	279.3	279.3	279.3	278.8	278.0	277.6	278.4	280.1
177.5°	279.3	279.3	279.3	279.3	279.3	279.3	278.9	278.3	278.1	278.7	280.0
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934534

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1570.2	1565.6	1571.8	1554.8	1571.8	1565.6	1570.2	1580.9	1571.8	1577.9	1584.0
5°	1377.7	1370.1	1345.4	1325.4	1345.4	1370.1	1377.7	1410.1	1425.5	1453.2	1490.2
7.5°	1231.6	1225.4	1219.2	1206.9	1219.2	1225.4	1231.6	1240.7	1256.1	1280.8	1308.5
10°	1199.2	1200.7	1210.0	1208.5	1210.0	1200.7	1199.2	1196.1	1191.5	1196.1	1213.0
12.5°	1282.3	1296.1	1347.0	1343.9	1347.0	1296.1	1282.3	1220.7	1179.2	1171.5	1174.5
15°	1377.7	1382.4	1393.2	1394.7	1393.2	1382.4	1377.7	1353.2	1228.5	1174.5	1157.6
17.5°	1387.0	1388.6	1396.2	1396.2	1396.2	1388.6	1387.0	1376.2	1334.6	1262.3	1166.9
20°	1379.3	1382.4	1397.7	1400.8	1397.7	1382.4	1379.3	1365.5	1342.4	1316.2	1243.8
22.5°	1376.2	1382.4	1394.7	1393.2	1394.7	1382.4	1376.2	1354.6	1334.6	1316.2	1287.0
25°	1360.8	1360.8	1362.4	1363.9	1362.4	1360.8	1360.8	1343.9	1303.9	1299.2	1282.3
27.5°	1328.5	1331.6	1340.8	1339.3	1340.8	1331.6	1328.5	1322.3	1279.2	1274.6	1262.3
30°	1299.2	1296.1	1288.5	1282.3	1288.5	1296.1	1299.2	1290.0	1246.9	1234.6	1237.7
32.5°	1250.0	1242.3	1234.6	1230.0	1234.6	1242.3	1250.0	1246.9	1214.5	1197.6	1200.7
35°	1191.5	1193.0	1191.5	1186.9	1191.5	1193.0	1191.5	1194.5	1174.5	1159.2	1157.6
37.5°	1150.0	1153.0	1151.5	1145.3	1151.5	1153.0	1150.0	1146.9	1119.1	1114.5	1117.6
40°	1106.8	1108.4	1106.8	1102.2	1106.8	1108.4	1106.8	1100.7	1062.2	1063.7	1074.5
42.5°	1065.3	1063.7	1059.1	1056.0	1059.1	1063.7	1065.3	1056.0	1006.8	1002.1	1022.2
45°	1017.5	1019.1	1009.9	1005.2	1009.9	1019.1	1017.5	1011.4	960.6	948.3	962.1
47.5°	969.9	969.9	962.1	957.5	962.1	969.9	969.9	962.1	908.3	895.9	903.6
50°	919.0	917.5	906.7	905.2	906.7	917.5	919.0	914.4	857.4	846.7	846.7
52.5°	860.5	860.5	862.1	865.2	862.1	860.5	860.5	862.1	811.3	800.5	797.4
55°	809.8	811.3	822.0	825.1	822.0	811.3	809.8	809.8	763.5	752.7	746.6
57.5°	757.4	757.4	765.1	765.1	765.1	757.4	757.4	754.3	709.7	700.4	697.3
60°	697.3	700.4	706.6	705.1	706.6	700.4	697.3	694.2	655.8	649.7	638.8
62.5°	634.2	637.3	638.8	635.7	638.8	637.3	634.2	625.0	601.9	597.3	583.4
65°	568.1	571.2	572.6	569.6	572.6	571.2	568.1	563.4	546.5	538.8	526.5
67.5°	500.3	498.8	497.2	503.4	497.2	498.8	500.3	494.1	483.4	477.2	460.3
70°	431.0	431.0	429.5	432.5	429.5	431.0	431.0	426.4	420.3	415.6	400.2
72.5°	357.1	355.6	361.8	357.1	361.8	355.6	357.1	355.6	352.5	347.9	332.5
75°	284.8	287.9	284.8	289.4	284.8	287.9	284.8	286.4	284.8	281.7	270.9
77.5°	217.0	220.1	217.0	217.0	217.0	220.1	217.0	218.6	218.6	218.6	209.4
80°	153.9	152.4	152.4	150.8	152.4	152.4	153.9	153.9	155.5	152.4	149.4
82.5°	98.5	97.0	97.0	100.1	97.0	97.0	98.5	100.1	97.0	97.0	97.0
85°	53.9	55.4	52.3	52.3	52.3	55.4	53.9	50.8	53.9	53.9	52.3
87.5°	20.0	18.5	18.5	18.5	18.5	18.5	20.0	21.6	21.6	21.6	23.1
90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5	12.6	14.3	12.3
92.5°	35.7	34.2	28.6	22.8	28.6	34.2	35.7	50.5	70.3	80.2	70.4
95°	120.9	116.6	99.4	82.3	99.4	116.6	120.9	158.7	209.2	234.5	198.0
97.5°	279.2	271.0	238.3	205.7	238.3	271.0	279.2	303.1	335.0	350.9	290.2
100°	392.1	382.3	343.4	304.5	343.4	382.3	392.1	390.3	388.0	386.8	319.3
102.5°	488.4	480.0	446.7	413.4	446.7	480.0	488.4	457.9	417.3	396.9	328.5
105°	600.9	596.4	578.5	560.6	578.5	596.4	600.9	532.5	441.4	395.8	329.6
107.5°	659.4	660.5	664.8	669.1	664.8	660.5	659.4	564.1	436.9	373.3	314.9
110°	674.4	679.0	697.7	716.3	697.7	679.0	674.4	567.8	425.6	354.6	301.9



TEST NUMBER: P934534

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	664.9	672.0	700.7	729.3	700.7	672.0	664.9	555.7	410.2	337.5	290.5
115°	632.4	642.3	682.0	721.8	682.0	642.3	632.4	527.2	387.1	317.0	277.4
117.5°	587.5	598.5	642.7	686.8	642.7	598.5	587.5	492.7	366.2	303.0	269.3
120°	557.4	568.2	610.9	653.8	610.9	568.2	557.4	470.7	355.1	297.4	266.6
122.5°	527.2	537.8	580.1	622.3	580.1	537.8	527.2	449.2	345.0	293.0	265.2
125°	487.3	497.0	535.9	574.8	535.9	497.0	487.3	421.0	332.6	288.4	264.0
127.5°	455.2	463.4	496.2	529.0	496.2	463.4	455.2	398.2	322.4	284.4	263.3
130°	435.0	442.5	472.9	503.2	472.9	442.5	435.0	384.3	316.7	282.9	263.7
132.5°	417.7	424.5	451.6	478.8	451.6	424.5	417.7	372.3	311.8	281.6	264.0
135°	393.3	399.1	422.6	446.0	422.6	399.1	393.3	355.3	304.6	279.3	263.7
137.5°	375.3	380.1	399.2	418.4	399.2	380.1	375.3	343.2	300.4	279.0	265.3
140°	360.9	365.4	383.3	401.2	383.3	365.4	360.9	333.2	296.2	277.6	265.6
142.5°	350.8	354.6	370.0	385.5	370.0	354.6	350.8	326.4	293.9	277.6	266.5
145°	335.6	338.5	350.2	361.9	350.2	338.5	335.6	315.6	289.1	275.8	266.6
147.5°	322.8	325.3	334.9	344.6	334.9	325.3	322.8	307.2	286.3	275.8	268.4
150°	315.6	317.6	325.4	333.2	325.4	317.6	315.6	302.3	284.6	275.8	269.3
152.5°	309.7	311.2	317.1	323.0	317.1	311.2	309.7	298.5	283.4	275.8	270.0
155°	302.8	303.8	307.7	311.6	307.7	303.8	302.8	293.8	281.8	275.8	271.3
157.5°	296.8	297.5	300.3	303.0	300.3	297.5	296.8	289.8	280.4	275.8	272.7
160°	293.8	294.2	295.8	297.4	295.8	294.2	293.8	287.8	279.8	275.8	273.3
162.5°	291.0	291.4	292.9	294.4	292.9	291.4	291.0	285.9	279.2	275.8	274.1
165°	286.6	287.0	288.6	290.3	288.6	287.0	286.6	283.0	278.2	275.8	275.0
167.5°	284.8	285.0	285.6	286.3	285.6	285.0	284.8	282.4	279.3	277.6	277.0
170°	284.8	284.8	284.8	284.8	284.8	284.8	284.8	282.4	279.3	277.6	277.6
172.5°	283.3	283.1	282.5	282.0	282.5	283.1	283.3	281.4	278.9	277.6	277.6
175°	281.3	281.3	281.3	281.3	281.3	281.3	281.3	280.1	278.4	277.6	278.0
177.5°	280.9	280.7	280.1	279.3	280.1	280.7	280.9	280.0	278.7	278.1	278.3
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934534

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1627.2	1627.2	1627.2	1627.2	1627.2
2.5°	1607.1	1614.8	1619.4	1625.6	1641.0
5°	1545.6	1574.8	1584.0	1607.1	1634.8
7.5°	1410.1	1499.4	1524.0	1579.4	1622.5
10°	1279.2	1368.5	1411.7	1542.5	1607.1
12.5°	1213.0	1265.4	1294.6	1477.8	1585.6
15°	1171.5	1208.5	1230.0	1391.7	1560.9
17.5°	1139.1	1165.3	1180.7	1307.0	1527.1
20°	1119.1	1131.5	1145.3	1245.4	1488.6
22.5°	1105.3	1097.6	1108.4	1202.3	1436.2
25°	1096.0	1066.8	1079.1	1168.4	1374.6
27.5°	1103.8	1039.1	1043.7	1137.6	1310.1
30°	1105.3	1005.2	1006.8	1105.3	1237.7
32.5°	1094.5	969.9	971.4	1065.3	1156.1
35°	1068.4	928.3	926.7	1019.1	1045.3
37.5°	1032.9	883.6	883.6	968.3	923.6
40°	989.9	839.0	843.6	902.1	815.9
42.5°	937.5	791.3	797.4	814.3	735.8
45°	880.5	745.1	749.7	688.1	674.2
47.5°	817.4	697.3	698.9	571.2	654.2
50°	742.0	648.1	641.9	489.6	652.7
52.5°	675.8	594.2	575.7	443.4	592.6
55°	611.2	537.2	497.2	408.0	549.6
57.5°	554.2	463.4	424.9	366.4	540.3
60°	501.8	391.0	361.8	321.7	495.7
62.5°	458.7	337.1	330.9	290.9	449.5
65°	412.5	300.2	298.6	264.8	381.8
67.5°	367.9	275.5	274.0	240.1	290.9
70°	320.2	249.4	246.3	213.9	215.5
72.5°	270.9	220.1	217.0	192.4	178.6
75°	221.7	186.3	184.7	167.8	144.7
77.5°	173.9	147.8	150.8	135.4	106.2
80°	124.7	107.8	110.8	97.0	80.0
82.5°	83.1	70.8	73.9	61.6	53.9
85°	46.2	40.0	41.6	32.3	24.7
87.5°	21.6	18.5	18.5	12.3	7.7
90°	8.3	5.3	4.9	3.4	1.9
92.5°	50.8	36.2	33.0	20.2	7.5
95°	125.2	70.5	64.7	41.3	18.0
97.5°	168.6	77.4	72.2	51.7	31.1
100°	184.4	83.2	78.6	59.9	41.2
102.5°	191.7	89.1	84.7	67.3	49.8
105°	197.0	97.7	94.0	79.2	64.5
107.5°	198.0	110.4	107.0	93.2	79.5
110°	196.6	117.5	114.4	102.0	89.6



TEST NUMBER: P934534

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	196.6	126.2	123.2	111.3	99.5
115°	198.4	139.1	136.4	125.4	114.5
117.5°	202.1	151.6	149.2	139.3	129.4
120°	205.1	159.0	156.6	147.4	138.0
122.5°	209.4	167.6	165.3	155.9	146.5
125°	215.2	178.7	176.5	167.9	159.4
127.5°	221.0	189.4	187.2	178.6	169.8
130°	225.3	196.5	194.1	184.8	175.5
132.5°	228.8	202.3	199.9	190.7	181.3
135°	232.5	209.0	206.9	198.4	189.9
137.5°	238.1	217.7	215.6	207.1	198.8
140°	241.5	223.5	221.6	213.8	206.0
142.5°	244.4	227.8	226.0	218.9	211.7
145°	248.1	234.3	232.8	226.5	220.3
147.5°	253.7	242.6	241.1	235.1	229.0
150°	256.5	246.9	245.5	240.0	234.5
152.5°	258.4	249.7	248.7	244.5	240.3
155°	262.5	255.9	255.2	252.1	249.0
157.5°	266.6	262.1	261.3	258.3	255.3
160°	268.5	264.9	264.3	262.0	259.7
162.5°	270.5	267.9	267.4	265.7	264.0
165°	273.4	272.3	271.9	270.3	268.7
167.5°	275.6	274.6	274.4	273.7	273.0
170°	277.5	277.4	277.3	276.5	275.8
172.5°	277.6	277.6	277.6	277.4	277.3
175°	278.8	279.3	279.3	279.3	279.3
177.5°	278.9	279.3	279.3	279.3	279.3
180°	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934534
 CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-4000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.89	16.97	16.66	17.75	18.71	18.69	19.76	19.45	20.55	21.51
	3H	16.39	17.35	17.16	18.15	19.13	20.04	21.01	20.82	21.80	22.79
	4H	16.59	17.50	17.38	18.30	19.30	20.49	21.40	21.28	22.20	23.20
	6H	16.72	17.56	17.53	18.37	19.38	20.78	21.62	21.59	22.43	23.44
	8H	16.72	17.52	17.54	18.36	19.37	20.85	21.65	21.67	22.49	23.50
	12H	16.70	17.47	17.53	18.29	19.33	20.89	21.66	21.72	22.48	23.52
4H	2H	16.94	17.85	17.74	18.66	19.65	19.13	20.04	19.93	20.84	21.84
	3H	17.99	18.75	18.80	19.59	20.60	20.64	21.40	21.45	22.24	23.25
	4H	18.27	18.96	19.10	19.80	20.84	21.17	21.86	22.00	22.70	23.74
	6H	18.41	19.01	19.25	19.87	20.92	21.54	22.14	22.38	23.00	24.05
	8H	18.42	18.98	19.27	19.84	20.90	21.65	22.21	22.49	23.06	24.12
	12H	18.40	18.90	19.27	19.78	20.84	21.71	22.21	22.58	23.09	24.15
8H	4H	18.74	19.30	19.59	20.16	21.21	21.32	21.87	22.16	22.73	23.79
	6H	19.01	19.47	19.88	20.37	21.43	21.75	22.21	22.63	23.11	24.17
	8H	19.06	19.46	19.94	20.36	21.43	21.90	22.31	22.79	23.21	24.28
	12H	19.05	19.41	19.94	20.30	21.42	22.00	22.36	22.89	23.25	24.38
12H	4H	18.76	19.26	19.62	20.14	21.20	21.29	21.79	22.16	22.67	23.73
	6H	19.07	19.48	19.96	20.38	21.45	21.75	22.16	22.64	23.06	24.13
	8H	19.15	19.51	20.04	20.39	21.52	21.92	22.28	22.81	23.16	24.29