

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: P934160

Luminaire Tested: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934160
REPORT IS A COMBINATION OF REPORTS P933686 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-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: -

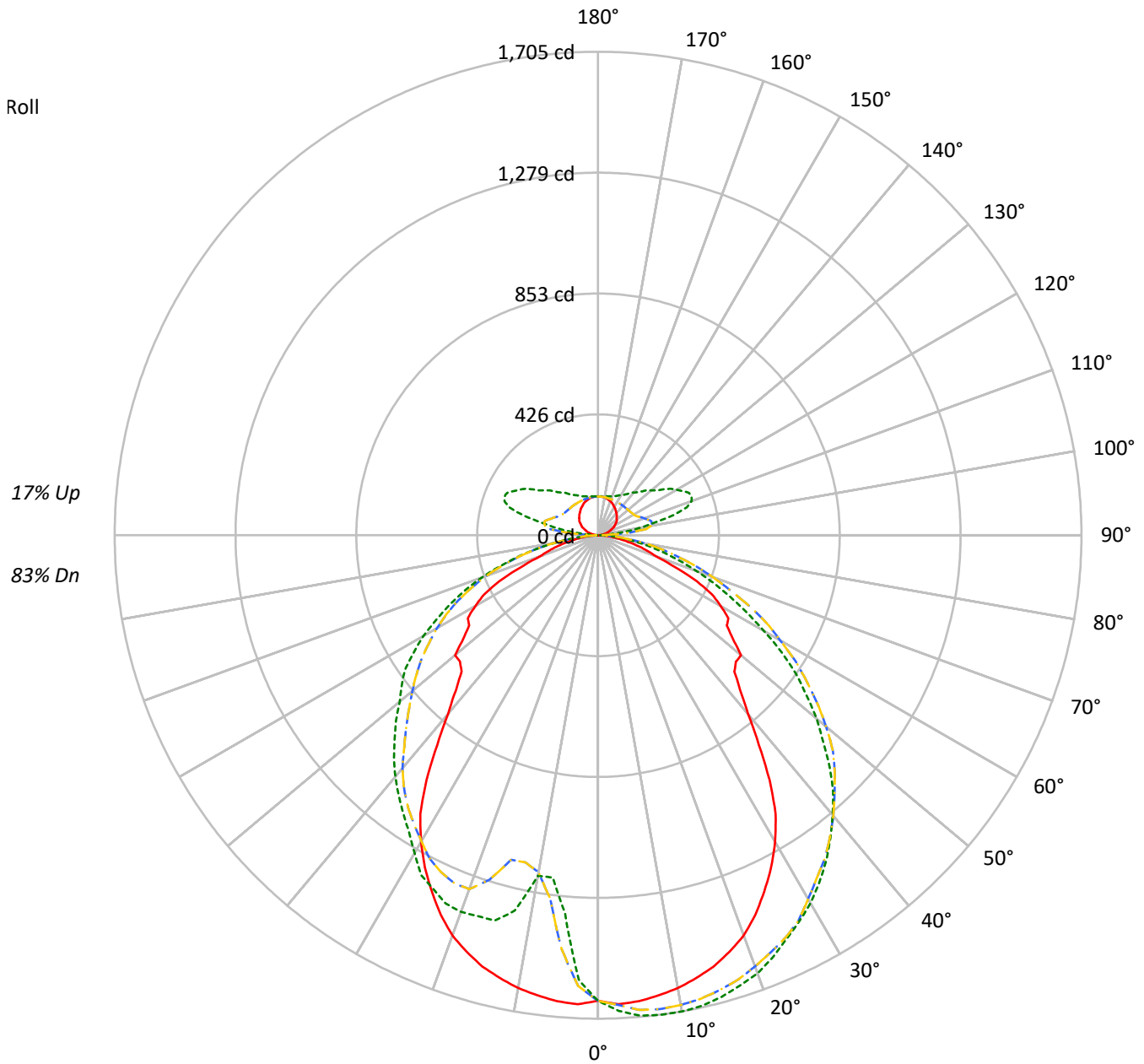
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5144.6 lumens
Efficiency: N/A
Efficacy: 103.7 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): 49.6
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

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	2.9
10°-20°	420.7	8.2
20°-30°	650.4	12.6
30°-40°	776.4	15.1
40°-50°	780.9	15.2
50°-60°	679.5	13.2
60°-70°	481.8	9.4
70°-80°	254.9	5.0
80°-90°	64.0	1.2
90°-100°	66.8	1.3
100°-110°	175.5	3.4
110°-120°	182.0	3.5
120°-130°	146.0	2.8
130°-140°	114.5	2.2
140°-150°	87.9	1.7
150°-160°	63.3	1.2
160°-170°	38.7	0.8
170°-180°	13.1	0.3
0°-30°	1219.3	23.7
0°-40°	1995.6	38.8
0°-60°	3456.1	67.2
0°-90°	4256.8	82.7
90°-120°	424.3	8.2
90°-150°	772.7	15.0
90°-180°	888.0	17.3
0°-180°	5144.6	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°	1	4	1	4	1	2
95°	9	40	9	40	9	10
105°	32	275	32	275	32	34
115°	56	354	56	354	56	55
125°	78	282	78	282	78	69
135°	93	219	93	219	93	72
145°	108	177	108	177	108	68
155°	122	153	122	153	122	56
165°	132	142	132	142	132	37
175°	137	138	137	138	137	13
180°	137	137	137	137	137	



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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°	0.9	1.7	2.4	2.6	4.0	6.0	7.0	6.2	4.7	3.5	3.5
92.5°	3.7	9.9	16.2	17.7	25.0	34.6	39.4	34.5	24.8	17.4	16.7
95°	8.8	20.3	31.8	34.6	61.4	97.1	115.0	102.6	77.8	59.3	57.2
97.5°	15.2	25.3	35.4	38.0	82.7	142.2	172.1	164.3	148.6	136.8	132.8
100°	20.2	29.4	38.5	40.8	90.4	156.6	189.6	190.1	191.3	192.2	187.4
102.5°	24.4	32.9	41.6	43.7	94.0	161.1	194.6	204.6	224.5	239.4	235.3
105°	31.7	38.9	46.1	47.9	96.6	161.5	194.0	216.4	261.1	294.6	292.4
107.5°	39.0	45.7	52.5	54.1	97.1	154.4	183.0	214.2	276.5	323.3	323.9
110°	44.0	50.0	56.1	57.6	96.4	148.0	173.8	208.7	278.3	330.6	332.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.8	54.6	60.4	61.9	96.4	142.4	165.5	201.2	272.5	326.0	329.5
115°	56.2	61.5	66.8	68.2	97.3	136.1	155.5	189.8	258.5	310.0	314.9
117.5°	63.4	68.3	73.1	74.3	99.1	132.1	148.6	179.6	241.5	288.1	293.5
120°	67.6	72.2	76.8	77.9	100.5	130.7	145.7	174.1	230.8	273.3	278.5
122.5°	71.8	76.4	80.9	82.1	102.6	129.9	143.6	169.1	220.2	258.4	263.6
125°	78.1	82.3	86.5	87.6	105.5	129.4	141.3	163.0	206.4	238.9	243.6
127.5°	83.2	87.5	91.8	92.9	108.4	129.0	139.4	158.0	195.3	223.2	227.2
130°	86.0	90.6	95.2	96.4	110.5	129.3	138.7	155.3	188.4	213.3	216.9
132.5°	88.9	93.5	98.1	99.2	112.1	129.4	138.0	152.9	182.5	204.8	208.1
135°	93.1	97.3	101.5	102.5	114.0	129.3	136.9	149.3	174.2	192.8	195.7
137.5°	97.5	101.6	105.7	106.7	116.7	130.0	136.7	147.2	168.2	184.0	186.4
140°	101.0	104.8	108.7	109.6	118.4	130.2	136.1	145.2	163.3	176.9	179.1
142.5°	103.8	107.3	110.8	111.7	119.9	130.7	136.1	144.1	160.0	172.0	173.9
145°	108.0	111.0	114.2	114.9	121.7	130.7	135.2	141.7	154.7	164.5	166.0
147.5°	112.2	115.2	118.2	118.9	124.3	131.6	135.2	140.3	150.6	158.3	159.5
150°	115.0	117.6	120.4	121.0	125.7	132.1	135.2	139.5	148.2	154.7	155.6
152.5°	117.8	119.9	121.9	122.4	126.6	132.3	135.2	138.8	146.3	151.9	152.6
155°	122.1	123.5	125.1	125.4	128.7	133.0	135.2	138.1	144.1	148.5	148.9
157.5°	125.2	126.6	128.1	128.5	130.7	133.7	135.2	137.5	142.1	145.5	145.8
160°	127.3	128.4	129.6	129.9	131.6	134.0	135.2	137.1	141.0	144.0	144.2
162.5°	129.4	130.2	131.1	131.3	132.6	134.4	135.2	136.8	140.1	142.6	142.8
165°	131.7	132.4	133.2	133.4	134.0	134.8	135.2	136.4	138.8	140.5	140.7
167.5°	133.8	134.2	134.5	134.6	135.1	135.7	136.1	136.8	138.4	139.6	139.7
170°	135.2	135.5	135.9	136.0	136.0	136.1	136.1	136.8	138.4	139.6	139.6
172.5°	135.9	136.0	136.1	136.1	136.1	136.1	136.1	136.7	137.9	138.8	138.8
175°	136.9	136.9	136.9	136.9	136.6	136.3	136.1	136.5	137.3	137.8	137.8
177.5°	136.9	136.9	136.9	136.9	136.7	136.5	136.3	136.6	137.2	137.7	137.6
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



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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°	3.5	3.5	3.5	3.5	3.5	4.7	6.2	7.0	6.0	4.0	2.6
92.5°	13.9	11.2	13.9	16.7	17.4	24.8	34.5	39.4	34.6	25.0	17.7
95°	48.8	40.4	48.8	57.2	59.3	77.8	102.6	115.0	97.1	61.4	34.6
97.5°	116.8	100.9	116.8	132.8	136.8	148.6	164.3	172.1	142.2	82.7	38.0
100°	168.4	149.3	168.4	187.4	192.2	191.3	190.1	189.6	156.6	90.4	40.8
102.5°	219.0	202.6	219.0	235.3	239.4	224.5	204.6	194.6	161.1	94.0	43.7
105°	283.7	274.8	283.7	292.4	294.6	261.1	216.4	194.0	161.5	96.6	47.9
107.5°	326.0	328.1	326.0	323.9	323.3	276.5	214.2	183.0	154.4	97.1	54.1
110°	342.0	351.2	342.0	332.9	330.6	278.3	208.7	173.8	148.0	96.4	57.6



TEST NUMBER: P934160

CATALOG NUMBER: SQ4-FA-025U-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°	343.5	357.5	343.5	329.5	326.0	272.5	201.2	165.5	142.4	96.4	61.9
115°	334.4	353.9	334.4	314.9	310.0	258.5	189.8	155.5	136.1	97.3	68.2
117.5°	315.0	336.7	315.0	293.5	288.1	241.5	179.6	148.6	132.1	99.1	74.3
120°	299.5	320.5	299.5	278.5	273.3	230.8	174.1	145.7	130.7	100.5	77.9
122.5°	284.3	305.0	284.3	263.6	258.4	220.2	169.1	143.6	129.9	102.6	82.1
125°	262.7	281.8	262.7	243.6	238.9	206.4	163.0	141.3	129.4	105.5	87.6
127.5°	243.3	259.3	243.3	227.2	223.2	195.3	158.0	139.4	129.0	108.4	92.9
130°	231.8	246.7	231.8	216.9	213.3	188.4	155.3	138.7	129.3	110.5	96.4
132.5°	221.4	234.7	221.4	208.1	204.8	182.5	152.9	138.0	129.4	112.1	99.2
135°	207.2	218.7	207.2	195.7	192.8	174.2	149.3	136.9	129.3	114.0	102.5
137.5°	195.7	205.2	195.7	186.4	184.0	168.2	147.2	136.7	130.0	116.7	106.7
140°	187.9	196.7	187.9	179.1	176.9	163.3	145.2	136.1	130.2	118.4	109.6
142.5°	181.4	189.0	181.4	173.9	172.0	160.0	144.1	136.1	130.7	119.9	111.7
145°	171.7	177.4	171.7	166.0	164.5	154.7	141.7	135.2	130.7	121.7	114.9
147.5°	164.2	168.9	164.2	159.5	158.3	150.6	140.3	135.2	131.6	124.3	118.9
150°	159.5	163.3	159.5	155.6	154.7	148.2	139.5	135.2	132.1	125.7	121.0
152.5°	155.5	158.4	155.5	152.6	151.9	146.3	138.8	135.2	132.3	126.6	122.4
155°	150.9	152.8	150.9	148.9	148.5	144.1	138.1	135.2	133.0	128.7	125.4
157.5°	147.2	148.6	147.2	145.8	145.5	142.1	137.5	135.2	133.7	130.7	128.5
160°	145.0	145.7	145.0	144.2	144.0	141.0	137.1	135.2	134.0	131.6	129.9
162.5°	143.5	144.3	143.5	142.8	142.6	140.1	136.8	135.2	134.4	132.6	131.3
165°	141.5	142.2	141.5	140.7	140.5	138.8	136.4	135.2	134.8	134.0	133.4
167.5°	139.9	140.3	139.9	139.7	139.6	138.4	136.8	136.1	135.7	135.1	134.6
170°	139.6	139.6	139.6	139.6	139.6	138.4	136.8	136.1	136.1	136.0	136.0
172.5°	138.5	138.2	138.5	138.8	138.8	137.9	136.7	136.1	136.1	136.1	136.1
175°	137.8	137.8	137.8	137.8	137.8	137.3	136.5	136.1	136.3	136.6	136.9
177.5°	137.3	136.9	137.3	137.6	137.7	137.2	136.6	136.3	136.5	136.7	136.9
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P934160

CATALOG NUMBER: SQ4-FA-025U-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°	2.4	1.7	0.9	1.7	2.4	2.6	4.0	6.0	7.0	6.2	4.7
92.5°	16.2	9.9	3.7	9.9	16.2	17.7	25.0	34.6	39.4	34.5	24.8
95°	31.8	20.3	8.8	20.3	31.8	34.6	61.4	97.1	115.0	102.6	77.8
97.5°	35.4	25.3	15.2	25.3	35.4	38.0	82.7	142.2	172.1	164.3	148.6
100°	38.5	29.4	20.2	29.4	38.5	40.8	90.4	156.6	189.6	190.1	191.3
102.5°	41.6	32.9	24.4	32.9	41.6	43.7	94.0	161.1	194.6	204.6	224.5
105°	46.1	38.9	31.7	38.9	46.1	47.9	96.6	161.5	194.0	216.4	261.1
107.5°	52.5	45.7	39.0	45.7	52.5	54.1	97.1	154.4	183.0	214.2	276.5
110°	56.1	50.0	44.0	50.0	56.1	57.6	96.4	148.0	173.8	208.7	278.3



TEST NUMBER: P934160

CATALOG NUMBER: SQ4-FA-025U-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°	60.4	54.6	48.8	54.6	60.4	61.9	96.4	142.4	165.5	201.2	272.5
115°	66.8	61.5	56.2	61.5	66.8	68.2	97.3	136.1	155.5	189.8	258.5
117.5°	73.1	68.3	63.4	68.3	73.1	74.3	99.1	132.1	148.6	179.6	241.5
120°	76.8	72.2	67.6	72.2	76.8	77.9	100.5	130.7	145.7	174.1	230.8
122.5°	80.9	76.4	71.8	76.4	80.9	82.1	102.6	129.9	143.6	169.1	220.2
125°	86.5	82.3	78.1	82.3	86.5	87.6	105.5	129.4	141.3	163.0	206.4
127.5°	91.8	87.5	83.2	87.5	91.8	92.9	108.4	129.0	139.4	158.0	195.3
130°	95.2	90.6	86.0	90.6	95.2	96.4	110.5	129.3	138.7	155.3	188.4
132.5°	98.1	93.5	88.9	93.5	98.1	99.2	112.1	129.4	138.0	152.9	182.5
135°	101.5	97.3	93.1	97.3	101.5	102.5	114.0	129.3	136.9	149.3	174.2
137.5°	105.7	101.6	97.5	101.6	105.7	106.7	116.7	130.0	136.7	147.2	168.2
140°	108.7	104.8	101.0	104.8	108.7	109.6	118.4	130.2	136.1	145.2	163.3
142.5°	110.8	107.3	103.8	107.3	110.8	111.7	119.9	130.7	136.1	144.1	160.0
145°	114.2	111.0	108.0	111.0	114.2	114.9	121.7	130.7	135.2	141.7	154.7
147.5°	118.2	115.2	112.2	115.2	118.2	118.9	124.3	131.6	135.2	140.3	150.6
150°	120.4	117.6	115.0	117.6	120.4	121.0	125.7	132.1	135.2	139.5	148.2
152.5°	121.9	119.9	117.8	119.9	121.9	122.4	126.6	132.3	135.2	138.8	146.3
155°	125.1	123.5	122.1	123.5	125.1	125.4	128.7	133.0	135.2	138.1	144.1
157.5°	128.1	126.6	125.2	126.6	128.1	128.5	130.7	133.7	135.2	137.5	142.1
160°	129.6	128.4	127.3	128.4	129.6	129.9	131.6	134.0	135.2	137.1	141.0
162.5°	131.1	130.2	129.4	130.2	131.1	131.3	132.6	134.4	135.2	136.8	140.1
165°	133.2	132.4	131.7	132.4	133.2	133.4	134.0	134.8	135.2	136.4	138.8
167.5°	134.5	134.2	133.8	134.2	134.5	134.6	135.1	135.7	136.1	136.8	138.4
170°	135.9	135.5	135.2	135.5	135.9	136.0	136.0	136.1	136.1	136.8	138.4
172.5°	136.1	136.0	135.9	136.0	136.1	136.1	136.1	136.1	136.1	136.7	137.9
175°	136.9	136.9	136.9	136.9	136.9	136.9	136.6	136.3	136.1	136.5	137.3
177.5°	136.9	136.9	136.9	136.9	136.9	136.9	136.7	136.5	136.3	136.6	137.2
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P934160

CATALOG NUMBER: SQ4-FA-025U-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°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	6.2	7.0	6.0
92.5°	17.4	16.7	13.9	11.2	13.9	16.7	17.4	24.8	34.5	39.4	34.6
95°	59.3	57.2	48.8	40.4	48.8	57.2	59.3	77.8	102.6	115.0	97.1
97.5°	136.8	132.8	116.8	100.9	116.8	132.8	136.8	148.6	164.3	172.1	142.2
100°	192.2	187.4	168.4	149.3	168.4	187.4	192.2	191.3	190.1	189.6	156.6
102.5°	239.4	235.3	219.0	202.6	219.0	235.3	239.4	224.5	204.6	194.6	161.1
105°	294.6	292.4	283.7	274.8	283.7	292.4	294.6	261.1	216.4	194.0	161.5
107.5°	323.3	323.9	326.0	328.1	326.0	323.9	323.3	276.5	214.2	183.0	154.4
110°	330.6	332.9	342.0	351.2	342.0	332.9	330.6	278.3	208.7	173.8	148.0



TEST NUMBER: P934160

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	326.0	329.5	343.5	357.5	343.5	329.5	326.0	272.5	201.2	165.5	142.4
115°	310.0	314.9	334.4	353.9	334.4	314.9	310.0	258.5	189.8	155.5	136.1
117.5°	288.1	293.5	315.0	336.7	315.0	293.5	288.1	241.5	179.6	148.6	132.1
120°	273.3	278.5	299.5	320.5	299.5	278.5	273.3	230.8	174.1	145.7	130.7
122.5°	258.4	263.6	284.3	305.0	284.3	263.6	258.4	220.2	169.1	143.6	129.9
125°	238.9	243.6	262.7	281.8	262.7	243.6	238.9	206.4	163.0	141.3	129.4
127.5°	223.2	227.2	243.3	259.3	243.3	227.2	223.2	195.3	158.0	139.4	129.0
130°	213.3	216.9	231.8	246.7	231.8	216.9	213.3	188.4	155.3	138.7	129.3
132.5°	204.8	208.1	221.4	234.7	221.4	208.1	204.8	182.5	152.9	138.0	129.4
135°	192.8	195.7	207.2	218.7	207.2	195.7	192.8	174.2	149.3	136.9	129.3
137.5°	184.0	186.4	195.7	205.2	195.7	186.4	184.0	168.2	147.2	136.7	130.0
140°	176.9	179.1	187.9	196.7	187.9	179.1	176.9	163.3	145.2	136.1	130.2
142.5°	172.0	173.9	181.4	189.0	181.4	173.9	172.0	160.0	144.1	136.1	130.7
145°	164.5	166.0	171.7	177.4	171.7	166.0	164.5	154.7	141.7	135.2	130.7
147.5°	158.3	159.5	164.2	168.9	164.2	159.5	158.3	150.6	140.3	135.2	131.6
150°	154.7	155.6	159.5	163.3	159.5	155.6	154.7	148.2	139.5	135.2	132.1
152.5°	151.9	152.6	155.5	158.4	155.5	152.6	151.9	146.3	138.8	135.2	132.3
155°	148.5	148.9	150.9	152.8	150.9	148.9	148.5	144.1	138.1	135.2	133.0
157.5°	145.5	145.8	147.2	148.6	147.2	145.8	145.5	142.1	137.5	135.2	133.7
160°	144.0	144.2	145.0	145.7	145.0	144.2	144.0	141.0	137.1	135.2	134.0
162.5°	142.6	142.8	143.5	144.3	143.5	142.8	142.6	140.1	136.8	135.2	134.4
165°	140.5	140.7	141.5	142.2	141.5	140.7	140.5	138.8	136.4	135.2	134.8
167.5°	139.6	139.7	139.9	140.3	139.9	139.7	139.6	138.4	136.8	136.1	135.7
170°	139.6	139.6	139.6	139.6	139.6	139.6	139.6	138.4	136.8	136.1	136.1
172.5°	138.8	138.8	138.5	138.2	138.5	138.8	138.8	137.9	136.7	136.1	136.1
175°	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.3	136.5	136.1	136.3
177.5°	137.7	137.6	137.3	136.9	137.3	137.6	137.7	137.2	136.6	136.3	136.5
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P934160

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-4-5000K

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°	4.0	2.6	2.4	1.7	0.9
92.5°	25.0	17.7	16.2	9.9	3.7
95°	61.4	34.6	31.8	20.3	8.8
97.5°	82.7	38.0	35.4	25.3	15.2
100°	90.4	40.8	38.5	29.4	20.2
102.5°	94.0	43.7	41.6	32.9	24.4
105°	96.6	47.9	46.1	38.9	31.7
107.5°	97.1	54.1	52.5	45.7	39.0
110°	96.4	57.6	56.1	50.0	44.0



TEST NUMBER: P934160

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	96.4	61.9	60.4	54.6	48.8
115°	97.3	68.2	66.8	61.5	56.2
117.5°	99.1	74.3	73.1	68.3	63.4
120°	100.5	77.9	76.8	72.2	67.6
122.5°	102.6	82.1	80.9	76.4	71.8
125°	105.5	87.6	86.5	82.3	78.1
127.5°	108.4	92.9	91.8	87.5	83.2
130°	110.5	96.4	95.2	90.6	86.0
132.5°	112.1	99.2	98.1	93.5	88.9
135°	114.0	102.5	101.5	97.3	93.1
137.5°	116.7	106.7	105.7	101.6	97.5
140°	118.4	109.6	108.7	104.8	101.0
142.5°	119.9	111.7	110.8	107.3	103.8
145°	121.7	114.9	114.2	111.0	108.0
147.5°	124.3	118.9	118.2	115.2	112.2
150°	125.7	121.0	120.4	117.6	115.0
152.5°	126.6	122.4	121.9	119.9	117.8
155°	128.7	125.4	125.1	123.5	122.1
157.5°	130.7	128.5	128.1	126.6	125.2
160°	131.6	129.9	129.6	128.4	127.3
162.5°	132.6	131.3	131.1	130.2	129.4
165°	134.0	133.4	133.2	132.4	131.7
167.5°	135.1	134.6	134.5	134.2	133.8
170°	136.0	136.0	135.9	135.5	135.2
172.5°	136.1	136.1	136.1	136.0	135.9
175°	136.6	136.9	136.9	136.9	136.9
177.5°	136.7	136.9	136.9	136.9	136.9
180°	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P934160
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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	16.87	18.13	17.48	18.75	19.46	19.66	20.92	20.28	21.55	22.26
	3H	17.37	18.51	18.00	19.14	19.89	21.03	22.16	21.66	22.80	23.54
	4H	17.58	18.65	18.23	19.30	20.06	21.48	22.55	22.13	23.20	23.96
	6H	17.72	18.71	18.38	19.37	20.14	21.78	22.77	22.44	23.43	24.20
	8H	17.73	18.67	18.41	19.35	20.13	21.86	22.80	22.54	23.48	24.26
	12H	17.72	18.62	18.40	19.29	20.10	21.91	22.81	22.59	23.48	24.29
4H	2H	17.94	19.01	18.59	19.65	20.41	20.12	21.19	20.77	21.84	22.60
	3H	19.00	19.89	19.66	20.58	21.36	21.65	22.54	22.32	23.23	24.01
	4H	19.29	20.10	19.97	20.79	21.60	22.19	23.00	22.87	23.69	24.50
	6H	19.44	20.14	20.14	20.86	21.68	22.57	23.27	23.27	23.99	24.81
	8H	19.46	20.11	20.16	20.82	21.66	22.68	23.34	23.39	24.05	24.88
	12H	19.44	20.03	20.17	20.77	21.61	22.75	23.34	23.48	24.08	24.92
8H	4H	19.77	20.43	20.48	21.14	21.97	22.35	23.00	23.05	23.72	24.55
	6H	20.05	20.59	20.79	21.35	22.19	22.79	23.34	23.53	24.09	24.93
	8H	20.10	20.58	20.85	21.34	22.19	22.94	23.43	23.69	24.19	25.04
	12H	20.10	20.53	20.85	21.27	22.19	23.06	23.48	23.81	24.23	25.14
12H	4H	19.80	20.39	20.52	21.12	21.96	22.33	22.92	23.06	23.66	24.50
	6H	20.11	20.60	20.86	21.36	22.21	22.79	23.28	23.54	24.04	24.89
	8H	20.20	20.63	20.95	21.37	22.29	22.97	23.40	23.72	24.14	25.06