

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: P935735

Luminaire Tested: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935735
REPORT IS A COMBINATION OF REPORTS P933766 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

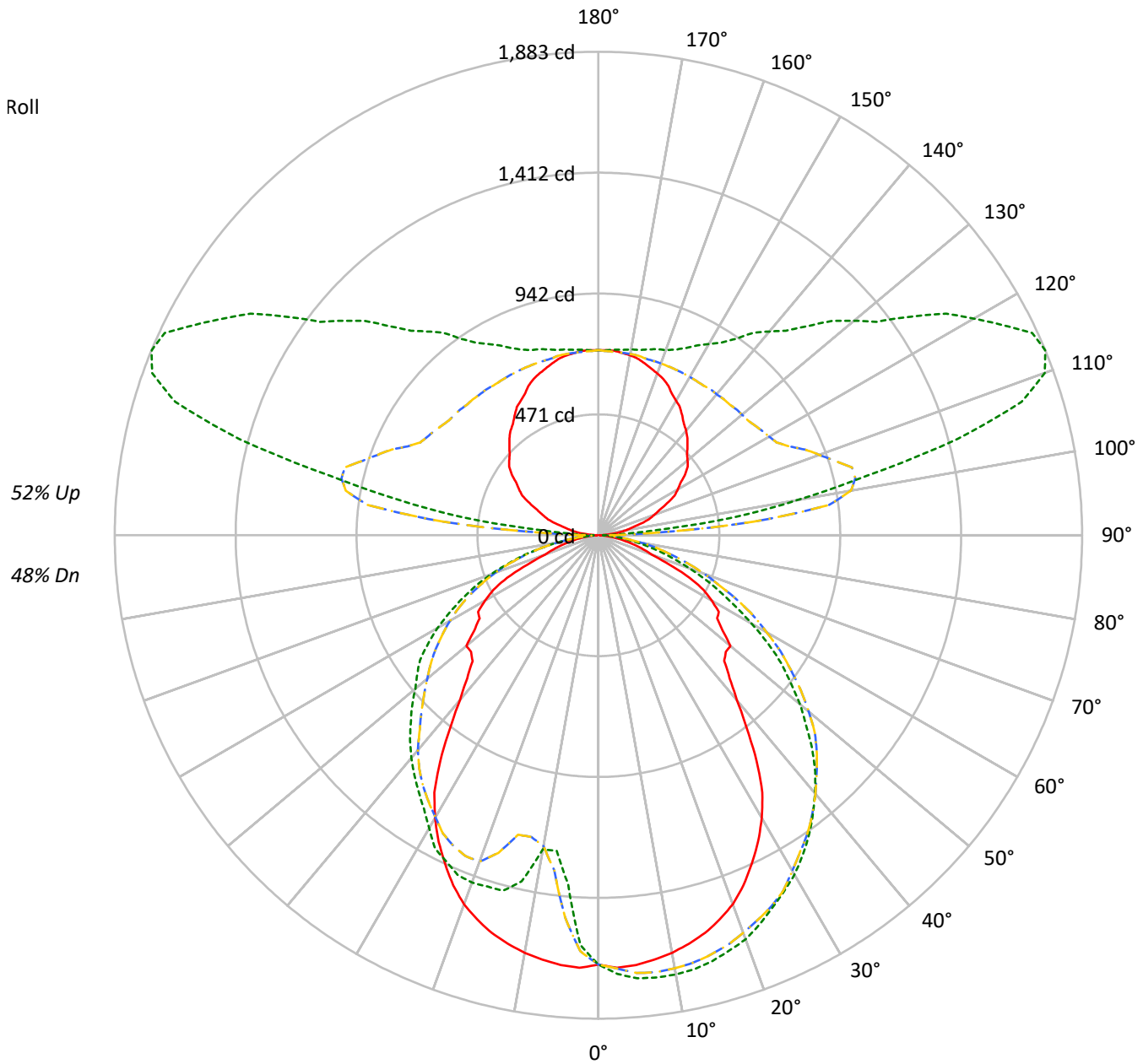
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9012.5 lumens
Efficiency: N/A
Efficacy: 119.8 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): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	31	26	30	26	23	25	22	19	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15515	15515	15515	15515
5°	15614	15661	15614	12315
10°	15492	15428	15492	11030
15°	15306	15093	15306	12603
20°	14968	14698	14968	12629
25°	14295	14119	14295	12362
30°	13433	13640	13433	11775
35°	11958	13034	11958	11128
40°	9946	12319	9946	10641
45°	8870	11484	8870	10079
50°	9402	10487	9402	9516
55°	8821	9413	8821	9191
60°	9060	7995	9060	8418
65°	8175	6609	8175	7388
70°	5621	5268	5621	6193
75°	4876	3894	4876	4662
80°	3852	2575	3852	2802
85°	2095	1364	2095	1157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13620 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	1.7
10°-20°	428.5	4.8
20°-30°	662.4	7.3
30°-40°	790.8	8.8
40°-50°	795.4	8.8
50°-60°	692.1	7.7
60°-70°	490.7	5.4
70°-80°	259.6	2.9
80°-90°	67.4	0.7
90°-100°	351.5	3.9
100°-110°	924.1	10.3
110°-120°	958.2	10.6
120°-130°	768.6	8.5
130°-140°	603.1	6.7
140°-150°	462.9	5.1
150°-160°	333.3	3.7
160°-170°	204.0	2.3
170°-180°	68.9	0.8
0°-30°	1241.9	13.8
0°-40°	2032.6	22.6
0°-60°	3520.2	39.1
0°-90°	4337.9	48.1
90°-120°	2233.8	24.8
90°-150°	4068.3	45.1
90°-180°	4675.0	51.9
0°-180°	9012.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1672	1672	1672	1672	1672	
5°	1680	1732	1680	1362	1680	159
15°	1604	1716	1604	1433	1604	451
25°	1412	1601	1412	1402	1412	649
35°	1074	1428	1074	1220	1074	664
45°	693	1177	693	1033	693	555
55°	565	868	565	848	565	519
65°	392	524	392	585	392	375
75°	149	248	149	297	149	156
85°	25	63	25	54	25	34
90°	5	18	5	18	5	5
95°	46	212	46	212	46	52
105°	166	1447	166	1447	166	176
115°	296	1863	296	1863	296	292
125°	411	1484	411	1484	411	365
135°	490	1151	490	1151	490	379
145°	569	934	569	934	569	356
155°	643	804	643	804	643	295
165°	694	749	694	749	694	196
175°	721	726	721	726	721	68
180°	721	721	721	721	721	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1686.2	1686.2	1695.7	1698.9	1698.9	1694.2	1689.4	1694.2	1708.4	1713.1	1711.5
5°	1679.9	1692.6	1710.0	1713.1	1716.3	1714.7	1711.5	1714.7	1730.5	1733.7	1735.3
7.5°	1667.2	1691.0	1713.1	1717.9	1722.6	1717.9	1716.3	1719.5	1735.3	1738.5	1738.5
10°	1651.4	1684.6	1710.0	1713.1	1717.9	1713.1	1713.1	1719.5	1735.3	1738.5	1740.0
12.5°	1629.3	1675.2	1698.9	1702.0	1708.4	1706.8	1705.2	1711.5	1727.3	1730.5	1730.5
15°	1604.0	1657.8	1679.9	1683.0	1694.2	1691.0	1691.0	1697.3	1714.7	1719.5	1717.9
17.5°	1569.2	1635.6	1660.9	1665.6	1673.6	1672.0	1673.6	1679.9	1695.7	1698.9	1700.4
20°	1529.6	1605.5	1635.6	1640.3	1648.3	1648.3	1648.3	1656.2	1672.0	1678.4	1678.4
22.5°	1475.8	1574.0	1605.5	1608.7	1618.2	1618.2	1621.3	1632.5	1646.7	1648.3	1648.3
25°	1412.5	1539.1	1566.0	1575.5	1585.0	1589.7	1594.5	1600.8	1605.5	1604.0	1605.5
27.5°	1346.2	1494.8	1529.6	1535.9	1548.6	1553.4	1559.7	1561.2	1562.8	1567.6	1564.4
30°	1271.8	1433.1	1485.3	1491.7	1512.3	1515.3	1509.1	1512.3	1520.1	1523.3	1526.5
32.5°	1187.9	1341.4	1439.4	1453.7	1472.7	1463.2	1461.6	1466.4	1479.0	1479.0	1482.2
35°	1074.1	1270.2	1396.7	1409.4	1423.7	1412.5	1418.9	1420.5	1428.4	1433.1	1431.6
37.5°	949.1	1208.5	1352.4	1362.0	1373.0	1358.8	1368.3	1373.0	1379.3	1376.2	1376.2
40°	838.3	1112.0	1300.3	1306.6	1316.1	1305.0	1314.5	1317.7	1320.8	1317.7	1316.1
42.5°	756.1	1006.0	1244.9	1252.8	1246.4	1254.4	1257.6	1263.9	1259.1	1252.8	1252.8
45°	692.8	977.6	1184.7	1194.3	1184.7	1197.5	1202.2	1202.2	1187.9	1184.7	1183.2
47.5°	672.2	920.6	1124.6	1124.6	1120.0	1135.8	1143.6	1132.6	1118.4	1113.6	1113.6
50°	670.7	857.3	1042.4	1036.1	1058.3	1077.2	1069.3	1058.3	1047.2	1029.8	1029.8
52.5°	609.0	779.8	936.5	960.1	995.0	1006.0	993.4	982.3	963.3	955.5	949.1
55°	564.7	699.2	839.9	887.4	923.8	938.0	914.3	903.2	874.8	870.0	866.8
57.5°	555.2	582.1	751.4	811.5	855.7	854.2	839.9	819.4	795.6	790.9	789.4
60°	509.3	420.8	656.4	727.7	773.5	768.8	756.1	737.1	715.0	711.8	708.7
62.5°	461.9	305.3	548.9	629.5	694.4	692.8	681.8	653.3	637.5	629.5	623.3
65°	392.3	256.3	390.7	523.6	616.9	620.1	596.3	575.8	558.4	548.9	547.3
67.5°	298.9	208.8	264.1	436.6	542.6	539.4	509.3	499.9	477.7	473.0	463.5
70°	221.4	139.2	183.5	354.3	469.8	461.9	438.2	427.1	406.5	395.5	389.1
72.5°	183.5	112.4	134.4	275.3	395.5	385.9	365.4	352.8	335.4	325.8	319.5
75°	148.7	118.6	102.8	204.0	321.1	314.8	295.8	283.1	268.9	256.3	257.8
77.5°	109.2	110.8	82.3	150.3	254.7	245.2	234.1	218.3	212.0	199.3	199.3
80°	82.3	87.0	61.7	102.8	183.5	183.5	174.0	162.9	151.9	145.5	145.5
82.5°	55.3	55.3	45.9	64.9	125.0	120.2	113.8	110.8	104.4	101.2	101.2
85°	25.3	31.6	28.5	39.5	68.0	71.2	71.2	68.0	66.5	63.3	64.9
87.5°	7.9	14.2	17.4	22.2	34.8	36.4	37.9	37.9	37.9	39.5	39.5
90°	4.9	8.7	12.6	13.6	21.3	31.6	36.7	32.6	24.5	18.4	18.4
92.5°	19.3	52.3	85.2	93.4	131.3	181.9	207.1	181.5	130.4	92.0	88.3
95°	46.5	106.6	166.9	182.0	323.1	511.3	605.4	540.3	410.0	312.2	301.1
97.5°	80.3	133.4	186.6	199.8	435.2	749.0	905.9	864.7	782.3	720.6	699.5
100°	106.5	154.7	202.8	214.9	476.0	824.2	998.4	1001.4	1007.4	1011.9	986.8
102.5°	128.7	173.7	218.6	229.8	494.7	848.0	1024.5	1077.1	1182.0	1260.7	1239.2
105°	166.5	204.6	242.6	252.2	508.7	850.7	1021.6	1139.3	1374.6	1551.1	1539.5
107.5°	205.2	240.7	276.2	285.1	511.3	812.8	963.6	1127.7	1455.9	1702.0	1704.8
110°	231.3	263.4	295.4	303.4	507.4	779.3	915.2	1098.7	1465.6	1740.8	1752.9



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CATALOG NUMBER: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	257.0	287.5	318.0	325.7	507.5	749.9	871.1	1058.9	1434.5	1716.1	1734.6
115°	295.6	323.9	352.1	359.1	512.2	716.3	818.3	999.2	1361.0	1632.4	1658.0
117.5°	334.0	359.6	385.2	391.5	521.8	695.3	782.1	945.3	1271.8	1516.7	1545.1
120°	356.2	380.3	404.4	410.4	529.5	688.2	767.6	916.8	1215.0	1438.8	1466.5
122.5°	378.0	402.3	426.6	432.7	540.6	684.5	756.5	890.8	1159.4	1360.8	1388.1
125°	411.4	433.5	455.7	461.2	555.6	681.4	744.3	858.4	1086.6	1257.7	1282.9
127.5°	438.5	460.8	483.1	488.8	570.5	679.6	734.1	832.1	1028.1	1175.0	1196.2
130°	453.0	477.1	501.2	507.2	581.6	680.7	730.3	817.5	991.9	1122.8	1142.3
132.5°	468.0	492.1	516.2	522.2	590.5	681.4	726.9	805.0	961.2	1078.3	1095.8
135°	490.3	512.2	534.1	539.6	600.1	680.7	721.1	786.6	917.3	1015.4	1030.5
137.5°	513.0	534.7	556.4	561.9	614.6	685.0	720.1	775.3	885.9	968.8	981.2
140°	531.8	551.9	571.9	576.9	623.5	685.7	716.7	764.5	860.0	931.6	943.2
142.5°	546.3	564.8	583.4	588.0	630.9	688.1	716.7	758.7	842.5	905.4	915.4
145°	568.7	584.8	600.9	604.9	640.6	688.1	711.9	746.2	814.8	866.3	873.9
147.5°	590.9	606.6	622.3	626.3	654.8	692.8	711.9	738.9	792.9	833.4	839.6
150°	605.4	619.6	633.8	637.4	662.2	695.3	711.9	734.7	780.3	814.5	819.6
152.5°	620.5	631.2	642.0	644.7	667.1	696.9	711.9	731.3	770.3	799.5	803.3
155°	642.7	650.6	658.6	660.6	677.7	700.5	711.9	727.4	758.3	781.6	784.1
157.5°	659.2	666.9	674.6	676.5	688.3	704.0	711.9	723.9	748.0	766.1	767.9
160°	670.3	676.3	682.3	683.8	693.2	705.6	711.9	722.2	742.8	758.3	759.4
162.5°	681.4	685.9	690.5	691.6	698.3	707.4	711.9	720.6	738.0	751.1	752.1
165°	693.5	697.6	701.7	702.7	705.8	709.8	711.9	718.1	730.6	739.9	740.9
167.5°	704.7	706.5	708.5	709.0	711.6	715.1	716.7	720.8	729.0	735.1	735.6
170°	711.9	713.8	715.8	716.3	716.5	716.6	716.7	720.8	729.0	735.1	735.1
172.5°	715.8	716.2	716.6	716.7	716.7	716.7	716.7	719.9	726.4	731.2	730.8
175°	721.1	721.1	721.1	721.1	719.6	717.7	716.7	718.8	722.8	725.9	725.9
177.5°	721.1	721.1	721.1	721.1	720.0	718.4	717.7	719.3	722.5	725.0	724.5
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1714.7	1710.0	1714.7	1711.5	1713.1	1708.4	1694.2	1689.4	1694.2	1698.9	1698.9
5°	1735.3	1732.1	1735.3	1735.3	1733.7	1730.5	1714.7	1711.5	1714.7	1716.3	1713.1
7.5°	1741.5	1736.9	1741.5	1738.5	1738.5	1735.3	1719.5	1716.3	1717.9	1722.6	1717.9
10°	1741.5	1736.9	1741.5	1740.0	1738.5	1735.3	1719.5	1713.1	1713.1	1717.9	1713.1
12.5°	1733.7	1730.5	1733.7	1730.5	1730.5	1727.3	1711.5	1705.2	1706.8	1708.4	1702.0
15°	1721.0	1716.3	1721.0	1717.9	1719.5	1714.7	1697.3	1691.0	1691.0	1694.2	1683.0
17.5°	1702.0	1695.7	1702.0	1700.4	1698.9	1695.7	1679.9	1673.6	1672.0	1673.6	1665.6
20°	1679.9	1675.2	1679.9	1678.4	1678.4	1672.0	1656.2	1648.3	1648.3	1648.3	1640.3
22.5°	1645.1	1640.3	1645.1	1648.3	1648.3	1646.7	1632.5	1621.3	1618.2	1618.2	1608.7
25°	1605.5	1600.8	1605.5	1605.5	1604.0	1605.5	1600.8	1594.5	1589.7	1585.0	1575.5
27.5°	1567.6	1564.4	1567.6	1564.4	1567.6	1562.8	1561.2	1559.7	1553.4	1548.6	1535.9
30°	1529.6	1526.5	1529.6	1526.5	1523.3	1520.1	1512.3	1509.1	1515.3	1512.3	1491.7
32.5°	1482.2	1479.0	1482.2	1482.2	1479.0	1479.0	1466.4	1461.6	1463.2	1472.7	1453.7
35°	1433.1	1428.4	1433.1	1431.6	1433.1	1428.4	1420.5	1418.9	1412.5	1423.7	1409.4
37.5°	1376.2	1371.4	1376.2	1376.2	1376.2	1379.3	1373.0	1368.3	1358.8	1373.0	1362.0
40°	1317.7	1311.3	1317.7	1316.1	1317.7	1320.8	1317.7	1314.5	1305.0	1316.1	1306.6
42.5°	1251.2	1249.6	1251.2	1252.8	1252.8	1259.1	1263.9	1257.6	1254.4	1246.4	1252.8
45°	1180.1	1176.9	1180.1	1183.2	1184.7	1187.9	1202.2	1202.2	1197.5	1184.7	1194.3
47.5°	1104.1	1096.2	1104.1	1113.6	1113.6	1118.4	1132.6	1143.6	1135.8	1120.0	1124.6
50°	1023.4	1025.0	1023.4	1029.8	1029.8	1047.2	1058.3	1069.3	1077.2	1058.3	1036.1
52.5°	944.3	942.7	944.3	949.1	955.5	963.3	982.3	993.4	1006.0	995.0	960.1
55°	865.3	868.4	865.3	866.8	870.0	874.8	903.2	914.3	938.0	923.8	887.4
57.5°	786.2	781.4	786.2	789.4	790.9	795.6	819.4	839.9	854.2	855.7	811.5
60°	694.4	688.1	694.4	708.7	711.8	715.0	737.1	756.1	768.8	773.5	727.7
62.5°	613.7	602.7	613.7	623.3	629.5	637.5	653.3	681.8	692.8	694.4	629.5
65°	528.3	523.6	528.3	547.3	548.9	558.4	575.8	596.3	620.1	616.9	523.6
67.5°	450.8	450.8	450.8	463.5	473.0	477.7	499.9	509.3	539.4	542.6	436.6
70°	379.7	378.1	379.7	389.1	395.5	406.5	427.1	438.2	461.9	469.8	354.3
72.5°	311.6	310.0	311.6	319.5	325.8	335.4	352.8	365.4	385.9	395.5	275.3
75°	251.5	248.4	251.5	257.8	256.3	268.9	283.1	295.8	314.8	321.1	204.0
77.5°	193.0	193.0	193.0	199.3	199.3	212.0	218.3	234.1	245.2	254.7	150.3
80°	143.9	142.4	143.9	145.5	145.5	151.9	162.9	174.0	183.5	183.5	102.8
82.5°	101.2	98.1	101.2	101.2	101.2	104.4	110.8	113.8	120.2	125.0	64.9
85°	63.3	63.3	63.3	64.9	63.3	66.5	68.0	71.2	71.2	68.0	39.5
87.5°	41.1	39.5	41.1	39.5	39.5	37.9	37.9	37.9	36.4	34.8	22.2
90°	18.4	18.4	18.4	18.4	18.4	24.5	32.6	36.7	31.6	21.3	13.6
92.5°	73.7	59.1	73.7	88.3	92.0	130.4	181.5	207.1	181.9	131.3	93.4
95°	256.8	212.5	256.8	301.1	312.2	410.0	540.3	605.4	511.3	323.1	182.0
97.5°	615.2	530.9	615.2	699.5	720.6	782.3	864.7	905.9	749.0	435.2	199.8
100°	886.4	785.9	886.4	986.8	1011.9	1007.4	1001.4	998.4	824.2	476.0	214.9
102.5°	1153.1	1067.2	1153.1	1239.2	1260.7	1182.0	1077.1	1024.5	848.0	494.7	229.8
105°	1493.3	1447.0	1493.3	1539.5	1551.1	1374.6	1139.3	1021.6	850.7	508.7	252.2
107.5°	1716.0	1727.2	1716.0	1704.8	1702.0	1455.9	1127.7	963.6	812.8	511.3	285.1
110°	1801.0	1849.1	1801.0	1752.9	1740.8	1465.6	1098.7	915.2	779.3	507.4	303.4



TEST NUMBER: P935735
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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1808.6	1882.6	1808.6	1734.6	1716.1	1434.5	1058.9	871.1	749.9	507.5	325.7
115°	1760.6	1863.2	1760.6	1658.0	1632.4	1361.0	999.2	818.3	716.3	512.2	359.1
117.5°	1658.9	1772.7	1658.9	1545.1	1516.7	1271.8	945.3	782.1	695.3	521.8	391.5
120°	1576.9	1687.5	1576.9	1466.5	1438.8	1215.0	916.8	767.6	688.2	529.5	410.4
122.5°	1497.1	1606.2	1497.1	1388.1	1360.8	1159.4	890.8	756.5	684.5	540.6	432.7
125°	1383.3	1483.8	1383.3	1282.9	1257.7	1086.6	858.4	744.3	681.4	555.6	461.2
127.5°	1280.9	1365.7	1280.9	1196.2	1175.0	1028.1	832.1	734.1	679.6	570.5	488.8
130°	1220.6	1299.0	1220.6	1142.3	1122.8	991.9	817.5	730.3	680.7	581.6	507.2
132.5°	1165.9	1236.0	1165.9	1095.8	1078.3	961.2	805.0	726.9	681.4	590.5	522.2
135°	1090.9	1151.3	1090.9	1030.5	1015.4	917.3	786.6	721.1	680.7	600.1	539.6
137.5°	1030.7	1080.1	1030.7	981.2	968.8	885.9	775.3	720.1	685.0	614.6	561.9
140°	989.4	1035.7	989.4	943.2	931.6	860.0	764.5	716.7	685.7	623.5	576.9
142.5°	955.2	995.0	955.2	915.4	905.4	842.5	758.7	716.7	688.1	630.9	588.0
145°	904.0	934.1	904.0	873.9	866.3	814.8	746.2	711.9	688.1	640.6	604.9
147.5°	864.5	889.5	864.5	839.6	833.4	792.9	738.9	711.9	692.8	654.8	626.3
150°	839.8	860.0	839.8	819.6	814.5	780.3	734.7	711.9	695.3	662.2	637.4
152.5°	818.5	833.9	818.5	803.3	799.5	770.3	731.3	711.9	696.9	667.1	644.7
155°	794.2	804.3	794.2	784.1	781.6	758.3	727.4	711.9	700.5	677.7	660.6
157.5°	775.0	782.1	775.0	767.9	766.1	748.0	723.9	711.9	704.0	688.3	676.5
160°	763.5	767.6	763.5	759.4	758.3	742.8	722.2	711.9	705.6	693.2	683.8
162.5°	756.0	759.8	756.0	752.1	751.1	738.0	720.6	711.9	707.4	698.3	691.6
165°	745.1	749.2	745.1	740.9	739.9	730.6	718.1	711.9	709.8	705.8	702.7
167.5°	737.3	739.0	737.3	735.6	735.1	729.0	720.8	716.7	715.1	711.6	709.0
170°	735.1	735.1	735.1	735.1	735.1	729.0	720.8	716.7	716.6	716.5	716.3
172.5°	729.4	727.9	729.4	730.8	731.2	726.4	719.9	716.7	716.7	716.7	716.7
175°	725.9	725.9	725.9	725.9	725.9	722.8	718.8	716.7	717.7	719.6	721.1
177.5°	722.8	721.1	722.8	724.5	725.0	722.5	719.3	717.7	718.4	720.0	721.1
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



TEST NUMBER: P935735

CATALOG NUMBER: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1695.7	1686.2	1686.2	1670.4	1664.1	1659.3	1651.4	1627.7	1621.3	1615.1	1624.5
5°	1710.0	1692.6	1679.9	1651.4	1627.7	1618.2	1588.2	1531.2	1493.3	1464.8	1449.0
7.5°	1713.1	1691.0	1667.2	1622.9	1566.0	1540.7	1449.0	1344.6	1316.1	1290.7	1274.9
10°	1710.0	1684.6	1651.4	1585.0	1450.6	1406.3	1314.5	1246.4	1229.0	1224.4	1229.0
12.5°	1698.9	1675.2	1629.3	1518.5	1330.3	1300.3	1246.4	1206.9	1203.8	1211.7	1254.4
15°	1679.9	1657.8	1604.0	1430.0	1263.9	1241.8	1203.8	1189.5	1206.9	1262.3	1390.5
17.5°	1660.9	1635.6	1569.2	1343.0	1213.2	1197.5	1170.5	1199.0	1297.1	1371.4	1414.1
20°	1635.6	1605.5	1529.6	1279.7	1176.9	1162.7	1150.0	1278.1	1352.4	1379.3	1403.1
22.5°	1605.5	1574.0	1475.8	1235.4	1138.9	1127.8	1135.8	1322.4	1352.4	1371.4	1392.0
25°	1566.0	1539.1	1412.5	1200.6	1108.8	1096.2	1126.2	1317.7	1335.0	1339.8	1380.9
27.5°	1529.6	1494.8	1346.2	1168.9	1072.5	1067.7	1134.2	1297.1	1309.7	1314.5	1358.8
30°	1485.3	1433.1	1271.8	1135.8	1034.5	1032.9	1135.8	1271.8	1268.6	1281.3	1325.6
32.5°	1439.4	1341.4	1187.9	1094.6	998.2	996.6	1124.6	1233.8	1230.6	1248.0	1281.3
35°	1396.7	1270.2	1074.1	1047.2	952.3	953.9	1097.8	1189.5	1191.1	1206.9	1227.5
37.5°	1352.4	1208.5	949.1	995.0	908.0	908.0	1061.4	1148.4	1145.2	1150.0	1178.5
40°	1300.3	1112.0	838.3	926.9	866.8	862.1	1017.1	1104.1	1093.0	1091.5	1131.0
42.5°	1244.9	1006.0	756.1	836.7	819.4	813.1	963.3	1050.3	1029.8	1034.5	1085.1
45°	1184.7	977.6	692.8	707.1	770.4	765.6	904.8	988.6	974.4	987.0	1039.3
47.5°	1124.6	920.6	672.2	586.9	718.1	716.5	839.9	928.5	920.6	933.3	988.6
50°	1042.4	857.3	670.7	503.1	659.6	666.0	762.4	870.0	870.0	881.1	939.6
52.5°	936.5	779.8	609.0	455.6	591.6	610.5	694.4	819.4	822.5	833.7	885.8
55°	839.9	699.2	564.7	419.2	510.9	552.0	628.0	767.2	773.5	784.6	832.1
57.5°	751.4	582.1	555.2	376.5	436.6	476.1	569.4	716.5	719.7	729.3	775.1
60°	656.4	420.8	509.3	330.6	371.7	401.7	515.7	656.4	667.6	673.8	713.4
62.5°	548.9	305.3	461.9	298.9	340.0	346.4	471.4	599.5	613.7	618.5	642.2
65°	390.7	256.3	392.3	272.1	306.9	308.5	423.9	541.0	553.6	561.6	579.0
67.5°	264.1	208.8	298.9	246.8	281.5	283.1	378.1	473.0	490.3	496.7	507.7
70°	183.5	139.2	221.4	219.8	253.1	256.3	329.0	411.3	427.1	431.8	438.2
72.5°	134.4	112.4	183.5	197.7	223.0	226.2	278.4	341.6	357.5	362.2	365.4
75°	102.8	118.6	148.7	172.5	189.8	191.4	227.8	278.4	289.5	292.7	294.2
77.5°	82.3	110.8	109.2	139.2	155.0	151.9	178.7	215.2	224.6	224.6	224.6
80°	61.7	87.0	82.3	99.6	113.8	110.8	128.1	153.5	156.6	159.7	158.2
82.5°	45.9	55.3	55.3	63.3	75.9	72.7	85.4	99.6	99.6	99.6	102.8
85°	28.5	31.6	25.3	33.2	42.7	41.1	47.5	53.7	55.3	55.3	52.2
87.5°	17.4	14.2	7.9	12.6	19.0	19.0	22.2	23.7	22.2	22.2	22.2
90°	12.6	8.7	4.9	8.7	12.6	13.6	21.3	31.6	36.7	32.6	24.5
92.5°	85.2	52.3	19.3	52.3	85.2	93.4	131.3	181.9	207.1	181.5	130.4
95°	166.9	106.6	46.5	106.6	166.9	182.0	323.1	511.3	605.4	540.3	410.0
97.5°	186.6	133.4	80.3	133.4	186.6	199.8	435.2	749.0	905.9	864.7	782.3
100°	202.8	154.7	106.5	154.7	202.8	214.9	476.0	824.2	998.4	1001.4	1007.4
102.5°	218.6	173.7	128.7	173.7	218.6	229.8	494.7	848.0	1024.5	1077.1	1182.0
105°	242.6	204.6	166.5	204.6	242.6	252.2	508.7	850.7	1021.6	1139.3	1374.6
107.5°	276.2	240.7	205.2	240.7	276.2	285.1	511.3	812.8	963.6	1127.7	1455.9
110°	295.4	263.4	231.3	263.4	295.4	303.4	507.4	779.3	915.2	1098.7	1465.6



TEST NUMBER: P935735

CATALOG NUMBER: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	318.0	287.5	257.0	287.5	318.0	325.7	507.5	749.9	871.1	1058.9	1434.5
115°	352.1	323.9	295.6	323.9	352.1	359.1	512.2	716.3	818.3	999.2	1361.0
117.5°	385.2	359.6	334.0	359.6	385.2	391.5	521.8	695.3	782.1	945.3	1271.8
120°	404.4	380.3	356.2	380.3	404.4	410.4	529.5	688.2	767.6	916.8	1215.0
122.5°	426.6	402.3	378.0	402.3	426.6	432.7	540.6	684.5	756.5	890.8	1159.4
125°	455.7	433.5	411.4	433.5	455.7	461.2	555.6	681.4	744.3	858.4	1086.6
127.5°	483.1	460.8	438.5	460.8	483.1	488.8	570.5	679.6	734.1	832.1	1028.1
130°	501.2	477.1	453.0	477.1	501.2	507.2	581.6	680.7	730.3	817.5	991.9
132.5°	516.2	492.1	468.0	492.1	516.2	522.2	590.5	681.4	726.9	805.0	961.2
135°	534.1	512.2	490.3	512.2	534.1	539.6	600.1	680.7	721.1	786.6	917.3
137.5°	556.4	534.7	513.0	534.7	556.4	561.9	614.6	685.0	720.1	775.3	885.9
140°	571.9	551.9	531.8	551.9	571.9	576.9	623.5	685.7	716.7	764.5	860.0
142.5°	583.4	564.8	546.3	564.8	583.4	588.0	630.9	688.1	716.7	758.7	842.5
145°	600.9	584.8	568.7	584.8	600.9	604.9	640.6	688.1	711.9	746.2	814.8
147.5°	622.3	606.6	590.9	606.6	622.3	626.3	654.8	692.8	711.9	738.9	792.9
150°	633.8	619.6	605.4	619.6	633.8	637.4	662.2	695.3	711.9	734.7	780.3
152.5°	642.0	631.2	620.5	631.2	642.0	644.7	667.1	696.9	711.9	731.3	770.3
155°	658.6	650.6	642.7	650.6	658.6	660.6	677.7	700.5	711.9	727.4	758.3
157.5°	674.6	666.9	659.2	666.9	674.6	676.5	688.3	704.0	711.9	723.9	748.0
160°	682.3	676.3	670.3	676.3	682.3	683.8	693.2	705.6	711.9	722.2	742.8
162.5°	690.5	685.9	681.4	685.9	690.5	691.6	698.3	707.4	711.9	720.6	738.0
165°	701.7	697.6	693.5	697.6	701.7	702.7	705.8	709.8	711.9	718.1	730.6
167.5°	708.5	706.5	704.7	706.5	708.5	709.0	711.6	715.1	716.7	720.8	729.0
170°	715.8	713.8	711.9	713.8	715.8	716.3	716.5	716.6	716.7	720.8	729.0
172.5°	716.6	716.2	715.8	716.2	716.6	716.7	716.7	716.7	716.7	719.9	726.4
175°	721.1	721.1	721.1	721.1	721.1	721.1	719.6	717.7	716.7	718.8	722.8
177.5°	721.1	721.1	721.1	721.1	721.1	721.1	720.0	718.4	717.7	719.3	722.5
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



TEST NUMBER: P935735
 CATALOG NUMBER: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1613.5	1608.7	1615.1	1597.6	1615.1	1608.7	1613.5	1624.5	1615.1	1621.3	1627.7
5°	1415.7	1407.9	1382.5	1362.0	1382.5	1407.9	1415.7	1449.0	1464.8	1493.3	1531.2
7.5°	1265.5	1259.1	1252.8	1240.2	1252.8	1259.1	1265.5	1274.9	1290.7	1316.1	1344.6
10°	1232.2	1233.8	1243.3	1241.8	1243.3	1233.8	1232.2	1229.0	1224.4	1229.0	1246.4
12.5°	1317.7	1331.9	1384.1	1380.9	1384.1	1331.9	1317.7	1254.4	1211.7	1203.8	1206.9
15°	1415.7	1420.5	1431.6	1433.1	1431.6	1420.5	1415.7	1390.5	1262.3	1206.9	1189.5
17.5°	1425.2	1426.8	1434.7	1434.7	1434.7	1426.8	1425.2	1414.1	1371.4	1297.1	1199.0
20°	1417.3	1420.5	1436.3	1439.4	1436.3	1420.5	1417.3	1403.1	1379.3	1352.4	1278.1
22.5°	1414.1	1420.5	1433.1	1431.6	1433.1	1420.5	1414.1	1392.0	1371.4	1352.4	1322.4
25°	1398.3	1398.3	1399.9	1401.5	1399.9	1398.3	1398.3	1380.9	1339.8	1335.0	1317.7
27.5°	1365.1	1368.3	1377.8	1376.2	1377.8	1368.3	1365.1	1358.8	1314.5	1309.7	1297.1
30°	1335.0	1331.9	1324.0	1317.7	1324.0	1331.9	1335.0	1325.6	1281.3	1268.6	1271.8
32.5°	1284.5	1276.5	1268.6	1263.9	1268.6	1276.5	1284.5	1281.3	1248.0	1230.6	1233.8
35°	1224.4	1225.9	1224.4	1219.6	1224.4	1225.9	1224.4	1227.5	1206.9	1191.1	1189.5
37.5°	1181.7	1184.7	1183.2	1176.9	1183.2	1184.7	1181.7	1178.5	1150.0	1145.2	1148.4
40°	1137.4	1138.9	1137.4	1132.6	1137.4	1138.9	1137.4	1131.0	1091.5	1093.0	1104.1
42.5°	1094.6	1093.0	1088.3	1085.1	1088.3	1093.0	1094.6	1085.1	1034.5	1029.8	1050.3
45°	1045.6	1047.2	1037.7	1032.9	1037.7	1047.2	1045.6	1039.3	987.0	974.4	988.6
47.5°	996.6	996.6	988.6	983.9	988.6	996.6	996.6	988.6	933.3	920.6	928.5
50°	944.3	942.7	931.7	930.1	931.7	942.7	944.3	939.6	881.1	870.0	870.0
52.5°	884.2	884.2	885.8	889.0	885.8	884.2	884.2	885.8	833.7	822.5	819.4
55°	832.1	833.7	844.7	847.9	844.7	833.7	832.1	832.1	784.6	773.5	767.2
57.5°	778.2	778.2	786.2	786.2	786.2	778.2	778.2	775.1	729.3	719.7	716.5
60°	716.5	719.7	726.1	724.5	726.1	719.7	716.5	713.4	673.8	667.6	656.4
62.5°	651.7	654.9	656.4	653.3	656.4	654.9	651.7	642.2	618.5	613.7	599.5
65°	583.7	586.9	588.4	585.3	588.4	586.9	583.7	579.0	561.6	553.6	541.0
67.5°	514.1	512.5	510.9	517.3	510.9	512.5	514.1	507.7	496.7	490.3	473.0
70°	442.9	442.9	441.4	444.5	441.4	442.9	442.9	438.2	431.8	427.1	411.3
72.5°	367.0	365.4	371.7	367.0	371.7	365.4	367.0	365.4	362.2	357.5	341.6
75°	292.7	295.8	292.7	297.4	292.7	295.8	292.7	294.2	292.7	289.5	278.4
77.5°	223.0	226.2	223.0	223.0	223.0	226.2	223.0	224.6	224.6	224.6	215.2
80°	158.2	156.6	156.6	155.0	156.6	156.6	158.2	158.2	159.7	156.6	153.5
82.5°	101.2	99.6	99.6	102.8	99.6	99.6	101.2	102.8	99.6	99.6	99.6
85°	55.3	56.9	53.7	53.7	53.7	56.9	55.3	52.2	55.3	55.3	53.7
87.5°	20.6	19.0	19.0	19.0	19.0	19.0	20.6	22.2	22.2	22.2	23.7
90°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	24.5	32.6	36.7	31.6
92.5°	92.0	88.3	73.7	59.1	73.7	88.3	92.0	130.4	181.5	207.1	181.9
95°	312.2	301.1	256.8	212.5	256.8	301.1	312.2	410.0	540.3	605.4	511.3
97.5°	720.6	699.5	615.2	530.9	615.2	699.5	720.6	782.3	864.7	905.9	749.0
100°	1011.9	986.8	886.4	785.9	886.4	986.8	1011.9	1007.4	1001.4	998.4	824.2
102.5°	1260.7	1239.2	1153.1	1067.2	1153.1	1239.2	1260.7	1182.0	1077.1	1024.5	848.0
105°	1551.1	1539.5	1493.3	1447.0	1493.3	1539.5	1551.1	1374.6	1139.3	1021.6	850.7
107.5°	1702.0	1704.8	1716.0	1727.2	1716.0	1704.8	1702.0	1455.9	1127.7	963.6	812.8
110°	1740.8	1752.9	1801.0	1849.1	1801.0	1752.9	1740.8	1465.6	1098.7	915.2	779.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1716.1	1734.6	1808.6	1882.6	1808.6	1734.6	1716.1	1434.5	1058.9	871.1	749.9
115°	1632.4	1658.0	1760.6	1863.2	1760.6	1658.0	1632.4	1361.0	999.2	818.3	716.3
117.5°	1516.7	1545.1	1658.9	1772.7	1658.9	1545.1	1516.7	1271.8	945.3	782.1	695.3
120°	1438.8	1466.5	1576.9	1687.5	1576.9	1466.5	1438.8	1215.0	916.8	767.6	688.2
122.5°	1360.8	1388.1	1497.1	1606.2	1497.1	1388.1	1360.8	1159.4	890.8	756.5	684.5
125°	1257.7	1282.9	1383.3	1483.8	1383.3	1282.9	1257.7	1086.6	858.4	744.3	681.4
127.5°	1175.0	1196.2	1280.9	1365.7	1280.9	1196.2	1175.0	1028.1	832.1	734.1	679.6
130°	1122.8	1142.3	1220.6	1299.0	1220.6	1142.3	1122.8	991.9	817.5	730.3	680.7
132.5°	1078.3	1095.8	1165.9	1236.0	1165.9	1095.8	1078.3	961.2	805.0	726.9	681.4
135°	1015.4	1030.5	1090.9	1151.3	1090.9	1030.5	1015.4	917.3	786.6	721.1	680.7
137.5°	968.8	981.2	1030.7	1080.1	1030.7	981.2	968.8	885.9	775.3	720.1	685.0
140°	931.6	943.2	989.4	1035.7	989.4	943.2	931.6	860.0	764.5	716.7	685.7
142.5°	905.4	915.4	955.2	995.0	955.2	915.4	905.4	842.5	758.7	716.7	688.1
145°	866.3	873.9	904.0	934.1	904.0	873.9	866.3	814.8	746.2	711.9	688.1
147.5°	833.4	839.6	864.5	889.5	864.5	839.6	833.4	792.9	738.9	711.9	692.8
150°	814.5	819.6	839.8	860.0	839.8	819.6	814.5	780.3	734.7	711.9	695.3
152.5°	799.5	803.3	818.5	833.9	818.5	803.3	799.5	770.3	731.3	711.9	696.9
155°	781.6	784.1	794.2	804.3	794.2	784.1	781.6	758.3	727.4	711.9	700.5
157.5°	766.1	767.9	775.0	782.1	775.0	767.9	766.1	748.0	723.9	711.9	704.0
160°	758.3	759.4	763.5	767.6	763.5	759.4	758.3	742.8	722.2	711.9	705.6
162.5°	751.1	752.1	756.0	759.8	756.0	752.1	751.1	738.0	720.6	711.9	707.4
165°	739.9	740.9	745.1	749.2	745.1	740.9	739.9	730.6	718.1	711.9	709.8
167.5°	735.1	735.6	737.3	739.0	737.3	735.6	735.1	729.0	720.8	716.7	715.1
170°	735.1	735.1	735.1	735.1	735.1	735.1	735.1	729.0	720.8	716.7	716.6
172.5°	731.2	730.8	729.4	727.9	729.4	730.8	731.2	726.4	719.9	716.7	716.7
175°	725.9	725.9	725.9	725.9	725.9	725.9	725.9	722.8	718.8	716.7	717.7
177.5°	725.0	724.5	722.8	721.1	722.8	724.5	725.0	722.5	719.3	717.7	718.4
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1651.4	1659.3	1664.1	1670.4	1686.2
5°	1588.2	1618.2	1627.7	1651.4	1679.9
7.5°	1449.0	1540.7	1566.0	1622.9	1667.2
10°	1314.5	1406.3	1450.6	1585.0	1651.4
12.5°	1246.4	1300.3	1330.3	1518.5	1629.3
15°	1203.8	1241.8	1263.9	1430.0	1604.0
17.5°	1170.5	1197.5	1213.2	1343.0	1569.2
20°	1150.0	1162.7	1176.9	1279.7	1529.6
22.5°	1135.8	1127.8	1138.9	1235.4	1475.8
25°	1126.2	1096.2	1108.8	1200.6	1412.5
27.5°	1134.2	1067.7	1072.5	1168.9	1346.2
30°	1135.8	1032.9	1034.5	1135.8	1271.8
32.5°	1124.6	996.6	998.2	1094.6	1187.9
35°	1097.8	953.9	952.3	1047.2	1074.1
37.5°	1061.4	908.0	908.0	995.0	949.1
40°	1017.1	862.1	866.8	926.9	838.3
42.5°	963.3	813.1	819.4	836.7	756.1
45°	904.8	765.6	770.4	707.1	692.8
47.5°	839.9	716.5	718.1	586.9	672.2
50°	762.4	666.0	659.6	503.1	670.7
52.5°	694.4	610.5	591.6	455.6	609.0
55°	628.0	552.0	510.9	419.2	564.7
57.5°	569.4	476.1	436.6	376.5	555.2
60°	515.7	401.7	371.7	330.6	509.3
62.5°	471.4	346.4	340.0	298.9	461.9
65°	423.9	308.5	306.9	272.1	392.3
67.5°	378.1	283.1	281.5	246.8	298.9
70°	329.0	256.3	253.1	219.8	221.4
72.5°	278.4	226.2	223.0	197.7	183.5
75°	227.8	191.4	189.8	172.5	148.7
77.5°	178.7	151.9	155.0	139.2	109.2
80°	128.1	110.8	113.8	99.6	82.3
82.5°	85.4	72.7	75.9	63.3	55.3
85°	47.5	41.1	42.7	33.2	25.3
87.5°	22.2	19.0	19.0	12.6	7.9
90°	21.3	13.6	12.6	8.7	4.9
92.5°	131.3	93.4	85.2	52.3	19.3
95°	323.1	182.0	166.9	106.6	46.5
97.5°	435.2	199.8	186.6	133.4	80.3
100°	476.0	214.9	202.8	154.7	106.5
102.5°	494.7	229.8	218.6	173.7	128.7
105°	508.7	252.2	242.6	204.6	166.5
107.5°	511.3	285.1	276.2	240.7	205.2
110°	507.4	303.4	295.4	263.4	231.3



TEST NUMBER: P935735

CATALOG NUMBER: SQ4-FA-125U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	507.5	325.7	318.0	287.5	257.0
115°	512.2	359.1	352.1	323.9	295.6
117.5°	521.8	391.5	385.2	359.6	334.0
120°	529.5	410.4	404.4	380.3	356.2
122.5°	540.6	432.7	426.6	402.3	378.0
125°	555.6	461.2	455.7	433.5	411.4
127.5°	570.5	488.8	483.1	460.8	438.5
130°	581.6	507.2	501.2	477.1	453.0
132.5°	590.5	522.2	516.2	492.1	468.0
135°	600.1	539.6	534.1	512.2	490.3
137.5°	614.6	561.9	556.4	534.7	513.0
140°	623.5	576.9	571.9	551.9	531.8
142.5°	630.9	588.0	583.4	564.8	546.3
145°	640.6	604.9	600.9	584.8	568.7
147.5°	654.8	626.3	622.3	606.6	590.9
150°	662.2	637.4	633.8	619.6	605.4
152.5°	667.1	644.7	642.0	631.2	620.5
155°	677.7	660.6	658.6	650.6	642.7
157.5°	688.3	676.5	674.6	666.9	659.2
160°	693.2	683.8	682.3	676.3	670.3
162.5°	698.3	691.6	690.5	685.9	681.4
165°	705.8	702.7	701.7	697.6	693.5
167.5°	711.6	709.0	708.5	706.5	704.7
170°	716.5	716.3	715.8	713.8	711.9
172.5°	716.7	716.7	716.6	716.2	715.8
175°	719.6	721.1	721.1	721.1	721.1
177.5°	720.0	721.1	721.1	721.1	721.1
180°	721.1	721.1	721.1	721.1	721.1



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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	14.14	14.99	15.12	15.98	17.27	16.94	17.79	17.91	18.77	20.07
	3H	14.62	15.38	15.60	16.37	17.69	18.28	19.03	19.26	20.03	21.35
	4H	14.81	15.53	15.81	16.53	17.85	18.71	19.43	19.71	20.43	21.76
	6H	14.93	15.59	15.94	16.59	17.93	18.99	19.65	20.00	20.65	21.99
	8H	14.93	15.56	15.94	16.58	17.92	19.06	19.69	20.07	20.71	22.04
	12H	14.90	15.50	15.92	16.51	17.87	19.09	19.69	20.11	20.70	22.07
4H	2H	15.17	15.88	16.17	16.88	18.21	17.35	18.07	18.35	19.07	20.39
	3H	16.19	16.79	17.20	17.82	19.16	18.85	19.44	19.86	20.47	21.81
	4H	16.47	17.01	17.49	18.03	19.40	19.37	19.91	20.39	20.93	22.30
	6H	16.59	17.06	17.62	18.11	19.47	19.72	20.19	20.75	21.24	22.60
	8H	16.60	17.04	17.63	18.07	19.45	19.82	20.26	20.86	21.30	22.68
	12H	16.56	16.96	17.61	18.01	19.39	19.87	20.27	20.93	21.32	22.70
8H	4H	16.92	17.35	17.95	18.39	19.77	19.49	19.93	20.52	20.97	22.34
	6H	17.18	17.54	18.23	18.62	19.99	19.92	20.28	20.97	21.36	22.73
	8H	17.22	17.54	18.28	18.60	19.99	20.06	20.38	21.13	21.45	22.84
	12H	17.20	17.48	18.27	18.54	19.98	20.16	20.44	21.22	21.50	22.93
12H	4H	16.92	17.32	17.97	18.37	19.75	19.45	19.85	20.50	20.90	22.28
	6H	17.23	17.55	18.30	18.62	20.01	19.91	20.23	20.98	21.30	22.69
	8H	17.30	17.58	18.37	18.64	20.07	20.07	20.35	21.14	21.41	22.84