

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: P935757

Luminaire Tested: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935757
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-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

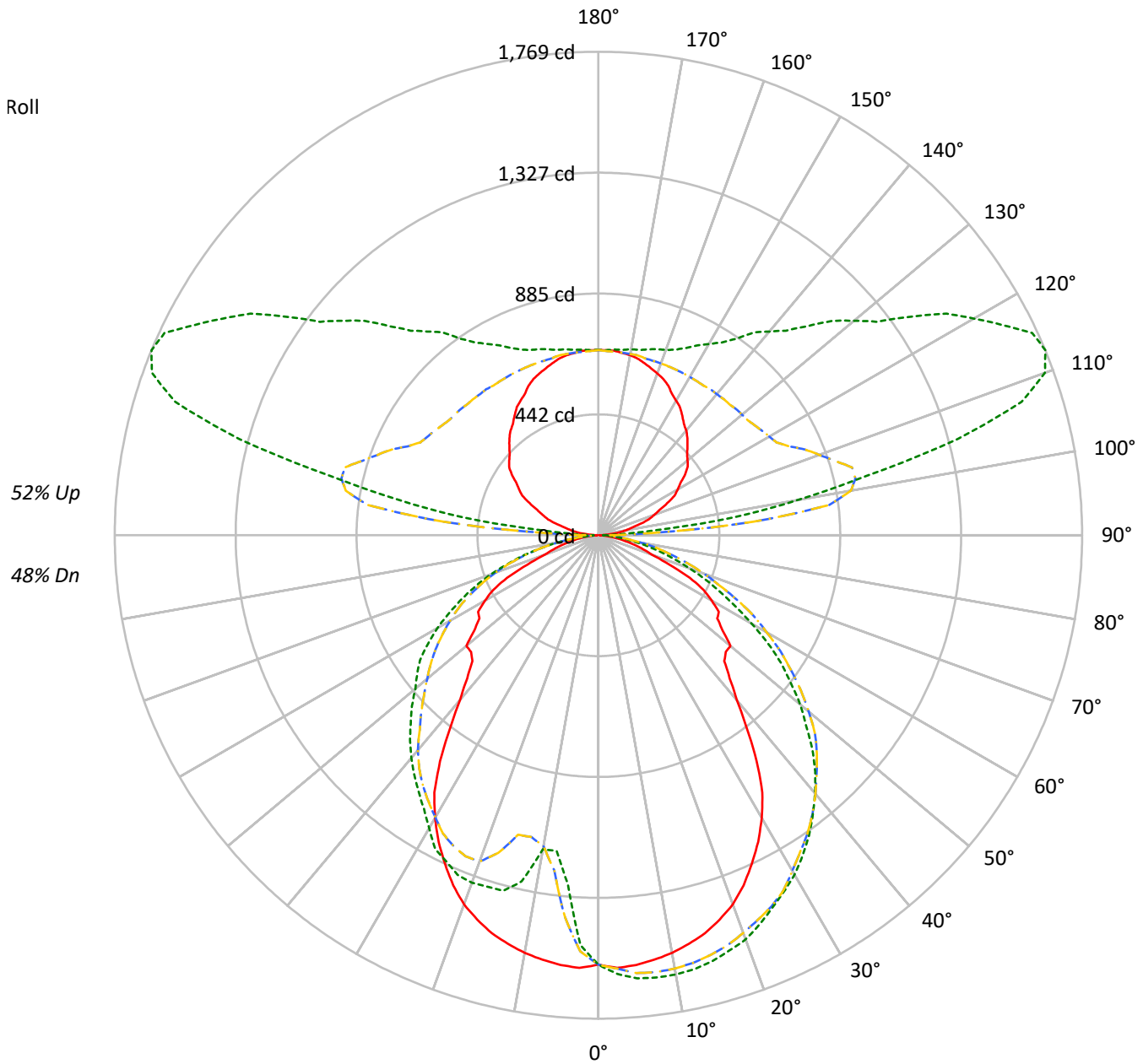
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8468.6 lumens
Efficiency: N/A
Efficacy: 112.6 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

TEST NUMBER: P935757
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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	34	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	63	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	31	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	24	19	16	20	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14579	14579	14579	14579
5°	14671	14717	14671	11572
10°	14557	14497	14557	10364
15°	14383	14182	14383	11842
20°	14065	13811	14065	11867
25°	13433	13267	13433	11615
30°	12622	12817	12622	11063
35°	11237	12247	11237	10457
40°	9346	11576	9346	9998
45°	8335	10791	8335	9471
50°	8834	9854	8834	8942
55°	8290	8845	8290	8636
60°	8513	7513	8513	7910
65°	7681	6210	7681	6942
70°	5283	4950	5283	5818
75°	4581	3659	4581	4382
80°	3618	2419	3618	2632
85°	1971	1282	1971	1088

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.7
10°-20°	402.7	4.8
20°-30°	622.4	7.3
30°-40°	743.1	8.8
40°-50°	747.4	8.8
50°-60°	650.3	7.7
60°-70°	461.1	5.4
70°-80°	244.0	2.9
80°-90°	63.3	0.7
90°-100°	330.3	3.9
100°-110°	868.4	10.3
110°-120°	900.4	10.6
120°-130°	722.2	8.5
130°-140°	566.7	6.7
140°-150°	434.9	5.1
150°-160°	313.2	3.7
160°-170°	191.7	2.3
170°-180°	64.7	0.8
0°-30°	1166.9	13.8
0°-40°	1910.0	22.6
0°-60°	3307.7	39.1
0°-90°	4076.1	48.1
90°-120°	2099.0	24.8
90°-150°	3822.8	45.1
90°-180°	4392.0	51.9
0°-180°	8468.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1571	1571	1571	1571	1571	
5°	1578	1628	1578	1280	1578	150
15°	1507	1613	1507	1347	1507	424
25°	1327	1504	1327	1317	1327	609
35°	1009	1342	1009	1146	1009	624
45°	651	1106	651	971	651	521
55°	531	816	531	797	531	488
65°	369	492	369	550	369	352
75°	140	233	140	280	140	147
85°	24	60	24	50	24	32
90°	5	17	5	17	5	5
95°	44	200	44	200	44	48
105°	156	1360	156	1360	156	166
115°	278	1751	278	1751	278	274
125°	386	1394	386	1394	386	343
135°	461	1082	461	1082	461	356
145°	534	878	534	878	534	335
155°	604	756	604	756	604	277
165°	652	704	652	704	652	184
175°	678	682	678	682	678	64
180°	678	678	678	678	678	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1584.5	1584.5	1593.4	1596.4	1596.4	1591.9	1587.4	1591.9	1605.3	1609.8	1608.3
5°	1578.5	1590.4	1606.8	1609.8	1612.7	1611.2	1608.3	1611.2	1626.1	1629.1	1630.6
7.5°	1566.6	1588.9	1609.8	1614.2	1618.6	1614.2	1612.7	1615.7	1630.6	1633.6	1633.6
10°	1551.8	1583.0	1606.8	1609.8	1614.2	1609.8	1609.8	1615.7	1630.6	1633.6	1635.0
12.5°	1531.0	1574.1	1596.4	1599.3	1605.3	1603.8	1602.3	1608.3	1623.1	1626.1	1626.1
15°	1507.2	1557.8	1578.5	1581.5	1591.9	1588.9	1588.9	1594.9	1611.2	1615.7	1614.2
17.5°	1474.5	1536.9	1560.7	1565.1	1572.6	1571.1	1572.6	1578.5	1593.4	1596.4	1597.8
20°	1437.3	1508.7	1536.9	1541.3	1548.8	1548.8	1548.8	1556.3	1571.1	1577.1	1577.1
22.5°	1386.7	1479.0	1508.7	1511.6	1520.5	1520.5	1523.5	1534.0	1547.3	1548.8	1548.8
25°	1327.3	1446.2	1471.5	1480.5	1489.3	1493.8	1498.3	1504.2	1508.7	1507.2	1508.7
27.5°	1264.9	1404.6	1437.3	1443.2	1455.2	1459.6	1465.5	1467.0	1468.5	1473.0	1470.0
30°	1195.0	1346.6	1395.7	1401.7	1421.0	1423.9	1418.0	1421.0	1428.4	1431.4	1434.4
32.5°	1116.2	1260.4	1352.6	1365.9	1383.9	1374.9	1373.4	1377.9	1389.7	1389.7	1392.7
35°	1009.3	1193.5	1312.4	1324.4	1337.7	1327.3	1333.3	1334.8	1342.2	1346.6	1345.2
37.5°	891.8	1135.6	1270.8	1279.8	1290.1	1276.8	1285.7	1290.1	1296.1	1293.1	1293.1
40°	787.7	1044.9	1221.8	1227.8	1236.6	1226.3	1235.2	1238.1	1241.1	1238.1	1236.6
42.5°	710.5	945.3	1169.8	1177.2	1171.2	1178.7	1181.7	1187.6	1183.2	1177.2	1177.2
45°	651.0	918.6	1113.2	1122.2	1113.2	1125.2	1129.7	1129.7	1116.2	1113.2	1111.8
47.5°	631.7	865.0	1056.8	1056.8	1052.4	1067.2	1074.6	1064.2	1050.9	1046.4	1046.4
50°	630.2	805.6	979.5	973.6	994.4	1012.2	1004.8	994.4	984.0	967.6	967.6
52.5°	572.2	732.8	880.0	902.2	935.0	945.3	933.5	923.0	905.2	897.8	891.8
55°	530.7	657.0	789.2	833.9	868.0	881.4	859.2	848.7	822.0	817.5	814.5
57.5°	521.7	547.0	706.1	762.5	804.1	802.7	789.2	769.9	747.6	743.2	741.7
60°	478.6	395.4	616.8	683.8	726.8	722.4	710.5	692.6	671.8	668.8	665.9
62.5°	434.1	286.9	515.7	591.5	652.5	651.0	640.6	613.8	599.0	591.5	585.7
65°	368.6	240.8	367.1	492.0	579.7	582.7	560.4	541.0	524.7	515.7	514.2
67.5°	280.9	196.2	248.2	410.3	509.9	506.9	478.6	469.7	448.9	444.4	435.5
70°	208.1	130.8	172.4	333.0	441.4	434.1	411.7	401.3	382.0	371.6	365.6
72.5°	172.4	105.6	126.3	258.7	371.6	362.7	343.3	331.5	315.1	306.2	300.2
75°	139.7	111.5	96.6	191.7	301.7	295.8	278.0	266.0	252.7	240.8	242.2
77.5°	102.6	104.1	77.3	141.2	239.3	230.4	220.0	205.1	199.2	187.3	187.3
80°	77.3	81.8	58.0	96.6	172.4	172.4	163.5	153.1	142.7	136.8	136.8
82.5°	52.0	52.0	43.1	61.0	117.4	112.9	107.0	104.1	98.1	95.1	95.1
85°	23.8	29.7	26.8	37.2	63.9	66.9	66.9	63.9	62.4	59.5	61.0
87.5°	7.5	13.4	16.3	20.8	32.7	34.2	35.7	35.7	35.7	37.2	37.2
90°	4.6	8.2	11.9	12.7	20.0	29.7	34.5	30.7	23.0	17.3	17.3
92.5°	18.2	49.1	80.0	87.7	123.4	170.9	194.6	170.6	122.5	86.4	83.0
95°	43.7	100.2	156.9	171.0	303.6	480.4	568.9	507.7	385.2	293.4	282.9
97.5°	75.4	125.3	175.3	187.8	408.9	703.8	851.2	812.5	735.1	677.1	657.3
100°	100.0	145.4	190.6	201.9	447.3	774.5	938.1	940.9	946.6	950.8	927.2
102.5°	120.9	163.2	205.4	216.0	464.9	796.8	962.7	1012.1	1110.7	1184.7	1164.5
105°	156.4	192.3	228.0	237.0	478.0	799.3	960.0	1070.6	1291.6	1457.5	1446.6
107.5°	192.8	226.2	259.5	267.9	480.4	763.8	905.4	1059.7	1368.0	1599.3	1601.9
110°	217.4	247.5	277.5	285.1	476.7	732.2	859.9	1032.4	1377.2	1635.7	1647.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	241.4	270.2	298.8	306.0	476.8	704.7	818.6	995.0	1347.9	1612.6	1630.0
115°	277.8	304.3	330.9	337.4	481.3	673.0	769.0	938.9	1278.9	1533.9	1557.9
117.5°	313.8	337.9	361.9	367.9	490.3	653.4	734.9	888.2	1195.0	1425.1	1451.8
120°	334.7	357.4	380.0	385.7	497.6	646.7	721.3	861.4	1141.7	1352.0	1378.0
122.5°	355.2	378.0	400.9	406.6	508.0	643.2	710.8	837.0	1089.4	1278.7	1304.4
125°	386.5	407.4	428.2	433.4	522.1	640.3	699.4	806.6	1021.0	1181.8	1205.5
127.5°	412.0	433.0	454.0	459.3	536.1	638.6	689.8	781.9	966.0	1104.1	1124.0
130°	425.6	448.3	470.9	476.6	546.5	639.7	686.2	768.2	932.1	1055.0	1073.4
132.5°	439.8	462.4	485.1	490.7	554.8	640.3	683.1	756.4	903.2	1013.2	1029.6
135°	460.7	481.3	501.9	507.0	563.9	639.7	677.6	739.1	862.0	954.1	968.3
137.5°	482.0	502.4	522.9	527.9	577.5	643.6	676.6	728.6	832.5	910.4	922.0
140°	499.8	518.5	537.3	542.1	585.9	644.3	673.5	718.4	808.1	875.4	886.3
142.5°	513.4	530.8	548.1	552.5	592.9	646.6	673.5	712.9	791.7	850.8	860.1
145°	534.4	549.5	564.7	568.4	601.9	646.6	668.9	701.1	765.6	814.0	821.1
147.5°	555.3	570.0	584.8	588.5	615.2	651.0	668.9	694.3	745.1	783.1	789.0
150°	568.9	582.2	595.6	598.9	622.3	653.4	668.9	690.3	733.2	765.4	770.1
152.5°	583.0	593.1	603.2	605.8	626.8	654.9	668.9	687.2	723.8	751.2	754.8
155°	603.9	611.4	618.9	620.7	636.8	658.2	668.9	683.5	712.6	734.4	736.8
157.5°	619.4	626.7	633.9	635.7	646.8	661.5	668.9	680.2	702.9	719.9	721.5
160°	629.8	635.5	641.2	642.6	651.3	663.0	668.9	678.6	698.0	712.6	713.5
162.5°	640.3	644.5	648.8	649.9	656.2	664.7	668.9	677.1	693.5	705.8	706.7
165°	651.6	655.5	659.3	660.3	663.2	667.0	668.9	674.8	686.5	695.3	696.2
167.5°	662.2	663.9	665.8	666.2	668.7	671.9	673.5	677.3	685.0	690.8	691.2
170°	668.9	670.8	672.6	673.0	673.2	673.4	673.5	677.3	685.0	690.8	690.8
172.5°	672.6	673.0	673.4	673.5	673.5	673.5	673.5	676.5	682.5	687.1	686.7
175°	677.6	677.6	677.6	677.6	676.2	674.4	673.5	675.4	679.2	682.1	682.1
177.5°	677.6	677.6	677.6	677.6	676.6	675.1	674.4	675.9	678.9	681.2	680.8
180°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1611.2	1606.8	1611.2	1608.3	1609.8	1605.3	1591.9	1587.4	1591.9	1596.4	1596.4
5°	1630.6	1627.6	1630.6	1630.6	1629.1	1626.1	1611.2	1608.3	1611.2	1612.7	1609.8
7.5°	1636.5	1632.1	1636.5	1633.6	1633.6	1630.6	1615.7	1612.7	1614.2	1618.6	1614.2
10°	1636.5	1632.1	1636.5	1635.0	1633.6	1630.6	1615.7	1609.8	1609.8	1614.2	1609.8
12.5°	1629.1	1626.1	1629.1	1626.1	1626.1	1623.1	1608.3	1602.3	1603.8	1605.3	1599.3
15°	1617.1	1612.7	1617.1	1614.2	1615.7	1611.2	1594.9	1588.9	1588.9	1591.9	1581.5
17.5°	1599.3	1593.4	1599.3	1597.8	1596.4	1593.4	1578.5	1572.6	1571.1	1572.6	1565.1
20°	1578.5	1574.1	1578.5	1577.1	1577.1	1571.1	1556.3	1548.8	1548.8	1548.8	1541.3
22.5°	1545.8	1541.3	1545.8	1548.8	1548.8	1547.3	1534.0	1523.5	1520.5	1520.5	1511.6
25°	1508.7	1504.2	1508.7	1508.7	1507.2	1508.7	1504.2	1498.3	1493.8	1489.3	1480.5
27.5°	1473.0	1470.0	1473.0	1470.0	1473.0	1468.5	1467.0	1465.5	1459.6	1455.2	1443.2
30°	1437.3	1434.4	1437.3	1434.4	1431.4	1428.4	1421.0	1418.0	1423.9	1421.0	1401.7
32.5°	1392.7	1389.7	1392.7	1392.7	1389.7	1389.7	1377.9	1373.4	1374.9	1383.9	1365.9
35°	1346.6	1342.2	1346.6	1345.2	1346.6	1342.2	1334.8	1333.3	1327.3	1337.7	1324.4
37.5°	1293.1	1288.6	1293.1	1293.1	1293.1	1296.1	1290.1	1285.7	1276.8	1290.1	1279.8
40°	1238.1	1232.2	1238.1	1236.6	1238.1	1241.1	1238.1	1235.2	1226.3	1236.6	1227.8
42.5°	1175.7	1174.2	1175.7	1177.2	1177.2	1183.2	1187.6	1181.7	1178.7	1171.2	1177.2
45°	1108.9	1105.9	1108.9	1111.8	1113.2	1116.2	1129.7	1129.7	1125.2	1113.2	1122.2
47.5°	1037.4	1030.1	1037.4	1046.4	1046.4	1050.9	1064.2	1074.6	1067.2	1052.4	1056.8
50°	961.7	963.1	961.7	967.6	967.6	984.0	994.4	1004.8	1012.2	994.4	973.6
52.5°	887.3	885.9	887.3	891.8	897.8	905.2	923.0	933.5	945.3	935.0	902.2
55°	813.0	816.0	813.0	814.5	817.5	822.0	848.7	859.2	881.4	868.0	833.9
57.5°	738.7	734.3	738.7	741.7	743.2	747.6	769.9	789.2	802.7	804.1	762.5
60°	652.5	646.6	652.5	665.9	668.8	671.8	692.6	710.5	722.4	726.8	683.8
62.5°	576.7	566.3	576.7	585.7	591.5	599.0	613.8	640.6	651.0	652.5	591.5
65°	496.4	492.0	496.4	514.2	515.7	524.7	541.0	560.4	582.7	579.7	492.0
67.5°	423.6	423.6	423.6	435.5	444.4	448.9	469.7	478.6	506.9	509.9	410.3
70°	356.8	355.3	356.8	365.6	371.6	382.0	401.3	411.7	434.1	441.4	333.0
72.5°	292.8	291.3	292.8	300.2	306.2	315.1	331.5	343.3	362.7	371.6	258.7
75°	236.4	233.4	236.4	242.2	240.8	252.7	266.0	278.0	295.8	301.7	191.7
77.5°	181.4	181.4	181.4	187.3	187.3	199.2	205.1	220.0	230.4	239.3	141.2
80°	135.3	133.8	135.3	136.8	136.8	142.7	153.1	163.5	172.4	172.4	96.6
82.5°	95.1	92.1	95.1	95.1	95.1	98.1	104.1	107.0	112.9	117.4	61.0
85°	59.5	59.5	59.5	61.0	59.5	62.4	63.9	66.9	66.9	63.9	37.2
87.5°	38.6	37.2	38.6	37.2	37.2	35.7	35.7	35.7	34.2	32.7	20.8
90°	17.3	17.3	17.3	17.3	17.3	23.0	30.7	34.5	29.7	20.0	12.7
92.5°	69.2	55.5	69.2	83.0	86.4	122.5	170.6	194.6	170.9	123.4	87.7
95°	241.3	199.6	241.3	282.9	293.4	385.2	507.7	568.9	480.4	303.6	171.0
97.5°	578.1	498.9	578.1	657.3	677.1	735.1	812.5	851.2	703.8	408.9	187.8
100°	832.9	738.5	832.9	927.2	950.8	946.6	940.9	938.1	774.5	447.3	201.9
102.5°	1083.6	1002.8	1083.6	1164.5	1184.7	1110.7	1012.1	962.7	796.8	464.9	216.0
105°	1403.2	1359.7	1403.2	1446.6	1457.5	1291.6	1070.6	960.0	799.3	478.0	237.0
107.5°	1612.5	1623.0	1612.5	1601.9	1599.3	1368.0	1059.7	905.4	763.8	480.4	267.9
110°	1692.3	1737.5	1692.3	1647.1	1635.7	1377.2	1032.4	859.9	732.2	476.7	285.1



TEST NUMBER: P935757

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1699.4	1769.0	1699.4	1630.0	1612.6	1347.9	995.0	818.6	704.7	476.8	306.0
115°	1654.4	1750.8	1654.4	1557.9	1533.9	1278.9	938.9	769.0	673.0	481.3	337.4
117.5°	1558.8	1665.7	1558.8	1451.8	1425.1	1195.0	888.2	734.9	653.4	490.3	367.9
120°	1481.8	1585.7	1481.8	1378.0	1352.0	1141.7	861.4	721.3	646.7	497.6	385.7
122.5°	1406.8	1509.3	1406.8	1304.4	1278.7	1089.4	837.0	710.8	643.2	508.0	406.6
125°	1299.8	1394.2	1299.8	1205.5	1181.8	1021.0	806.6	699.4	640.3	522.1	433.4
127.5°	1203.6	1283.3	1203.6	1124.0	1104.1	966.0	781.9	689.8	638.6	536.1	459.3
130°	1147.0	1220.6	1147.0	1073.4	1055.0	932.1	768.2	686.2	639.7	546.5	476.6
132.5°	1095.5	1161.4	1095.5	1029.6	1013.2	903.2	756.4	683.1	640.3	554.8	490.7
135°	1025.1	1081.8	1025.1	968.3	954.1	862.0	739.1	677.6	639.7	563.9	507.0
137.5°	968.5	1015.0	968.5	922.0	910.4	832.5	728.6	676.6	643.6	577.5	527.9
140°	929.7	973.2	929.7	886.3	875.4	808.1	718.4	673.5	644.3	585.9	542.1
142.5°	897.5	935.0	897.5	860.1	850.8	791.7	712.9	673.5	646.6	592.9	552.5
145°	849.4	877.7	849.4	821.1	814.0	765.6	701.1	668.9	646.6	601.9	568.4
147.5°	812.3	835.8	812.3	789.0	783.1	745.1	694.3	668.9	651.0	615.2	588.5
150°	789.2	808.1	789.2	770.1	765.4	733.2	690.3	668.9	653.4	622.3	598.9
152.5°	769.1	783.5	769.1	754.8	751.2	723.8	687.2	668.9	654.9	626.8	605.8
155°	746.3	755.8	746.3	736.8	734.4	712.6	683.5	668.9	658.2	636.8	620.7
157.5°	728.2	734.9	728.2	721.5	719.9	702.9	680.2	668.9	661.5	646.8	635.7
160°	717.4	721.3	717.4	713.5	712.6	698.0	678.6	668.9	663.0	651.3	642.6
162.5°	710.4	714.0	710.4	706.7	705.8	693.5	677.1	668.9	664.7	656.2	649.9
165°	700.1	704.0	700.1	696.2	695.3	686.5	674.8	668.9	667.0	663.2	660.3
167.5°	692.8	694.4	692.8	691.2	690.8	685.0	677.3	673.5	671.9	668.7	666.2
170°	690.8	690.8	690.8	690.8	690.8	685.0	677.3	673.5	673.4	673.2	673.0
172.5°	685.3	683.9	685.3	686.7	687.1	682.5	676.5	673.5	673.5	673.5	673.5
175°	682.1	682.1	682.1	682.1	682.1	679.2	675.4	673.5	674.4	676.2	677.6
177.5°	679.2	677.6	679.2	680.8	681.2	678.9	675.9	674.4	675.1	676.6	677.6
180°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6



TEST NUMBER: P935757

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1593.4	1584.5	1584.5	1569.6	1563.6	1559.2	1551.8	1529.5	1523.5	1517.6	1526.5
5°	1606.8	1590.4	1578.5	1551.8	1529.5	1520.5	1492.3	1438.8	1403.2	1376.4	1361.5
7.5°	1609.8	1588.9	1566.6	1525.0	1471.5	1447.7	1361.5	1263.4	1236.6	1212.8	1198.0
10°	1606.8	1583.0	1551.8	1489.3	1363.0	1321.4	1235.2	1171.2	1154.9	1150.5	1154.9
12.5°	1596.4	1574.1	1531.0	1426.9	1250.0	1221.8	1171.2	1134.1	1131.2	1138.5	1178.7
15°	1578.5	1557.8	1507.2	1343.7	1187.6	1166.8	1131.2	1117.7	1134.1	1186.1	1306.6
17.5°	1560.7	1536.9	1474.5	1261.9	1140.0	1125.2	1099.9	1126.7	1218.8	1288.6	1328.8
20°	1536.9	1508.7	1437.3	1202.5	1105.9	1092.5	1080.6	1201.0	1270.8	1296.1	1318.4
22.5°	1508.7	1479.0	1386.7	1160.9	1070.2	1059.8	1067.2	1242.6	1270.8	1288.6	1308.0
25°	1471.5	1446.2	1327.3	1128.2	1041.9	1030.1	1058.3	1238.1	1254.5	1259.0	1297.6
27.5°	1437.3	1404.6	1264.9	1098.4	1007.8	1003.3	1065.7	1218.8	1230.7	1235.2	1276.8
30°	1395.7	1346.6	1195.0	1067.2	972.1	970.6	1067.2	1195.0	1192.0	1204.0	1245.6
32.5°	1352.6	1260.4	1116.2	1028.6	937.9	936.4	1056.8	1159.4	1156.4	1172.7	1204.0
35°	1312.4	1193.5	1009.3	984.0	894.8	896.3	1031.6	1117.7	1119.2	1134.1	1153.4
37.5°	1270.8	1135.6	891.8	935.0	853.2	853.2	997.3	1079.1	1076.1	1080.6	1107.4
40°	1221.8	1044.9	787.7	871.0	814.5	810.1	955.8	1037.4	1027.1	1025.6	1062.7
42.5°	1169.8	945.3	710.5	786.3	769.9	764.0	905.2	986.9	967.6	972.1	1019.6
45°	1113.2	918.6	651.0	664.4	723.9	719.4	850.2	929.0	915.6	927.5	976.6
47.5°	1056.8	865.0	631.7	551.5	674.8	673.3	789.2	872.5	865.0	877.0	929.0
50°	979.5	805.6	630.2	472.7	619.8	625.8	716.4	817.5	817.5	827.9	882.9
52.5°	880.0	732.8	572.2	428.1	555.9	573.7	652.5	769.9	772.9	783.4	832.4
55°	789.2	657.0	530.7	393.9	480.1	518.7	590.1	720.9	726.8	737.2	781.9
57.5°	706.1	547.0	521.7	353.8	410.3	447.4	535.1	673.3	676.3	685.3	728.3
60°	616.8	395.4	478.6	310.7	349.3	377.5	484.6	616.8	627.3	633.2	670.3
62.5°	515.7	286.9	434.1	280.9	319.5	325.5	442.9	563.3	576.7	581.2	603.5
65°	367.1	240.8	368.6	255.7	288.3	289.8	398.3	508.4	520.2	527.7	544.0
67.5°	248.2	196.2	280.9	231.9	264.5	266.0	355.3	444.4	460.8	466.7	477.1
70°	172.4	130.8	208.1	206.6	237.8	240.8	309.2	386.5	401.3	405.8	411.7
72.5°	126.3	105.6	172.4	185.8	209.6	212.5	261.6	321.0	336.0	340.3	343.3
75°	96.6	111.5	139.7	162.0	178.4	179.9	214.0	261.6	272.0	275.0	276.5
77.5°	77.3	104.1	102.6	130.8	145.6	142.7	167.9	202.2	211.1	211.1	211.1
80°	58.0	81.8	77.3	93.6	107.0	104.1	120.4	144.2	147.1	150.1	148.6
82.5°	43.1	52.0	52.0	59.5	71.3	68.3	80.3	93.6	93.6	93.6	96.6
85°	26.8	29.7	23.8	31.2	40.1	38.6	44.6	50.5	52.0	52.0	49.0
87.5°	16.3	13.4	7.5	11.9	17.8	17.8	20.8	22.3	20.8	20.8	20.8
90°	11.9	8.2	4.6	8.2	11.9	12.7	20.0	29.7	34.5	30.7	23.0
92.5°	80.0	49.1	18.2	49.1	80.0	87.7	123.4	170.9	194.6	170.6	122.5
95°	156.9	100.2	43.7	100.2	156.9	171.0	303.6	480.4	568.9	507.7	385.2
97.5°	175.3	125.3	75.4	125.3	175.3	187.8	408.9	703.8	851.2	812.5	735.1
100°	190.6	145.4	100.0	145.4	190.6	201.9	447.3	774.5	938.1	940.9	946.6
102.5°	205.4	163.2	120.9	163.2	205.4	216.0	464.9	796.8	962.7	1012.1	1110.7
105°	228.0	192.3	156.4	192.3	228.0	237.0	478.0	799.3	960.0	1070.6	1291.6
107.5°	259.5	226.2	192.8	226.2	259.5	267.9	480.4	763.8	905.4	1059.7	1368.0
110°	277.5	247.5	217.4	247.5	277.5	285.1	476.7	732.2	859.9	1032.4	1377.2



TEST NUMBER: P935757

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	298.8	270.2	241.4	270.2	298.8	306.0	476.8	704.7	818.6	995.0	1347.9
115°	330.9	304.3	277.8	304.3	330.9	337.4	481.3	673.0	769.0	938.9	1278.9
117.5°	361.9	337.9	313.8	337.9	361.9	367.9	490.3	653.4	734.9	888.2	1195.0
120°	380.0	357.4	334.7	357.4	380.0	385.7	497.6	646.7	721.3	861.4	1141.7
122.5°	400.9	378.0	355.2	378.0	400.9	406.6	508.0	643.2	710.8	837.0	1089.4
125°	428.2	407.4	386.5	407.4	428.2	433.4	522.1	640.3	699.4	806.6	1021.0
127.5°	454.0	433.0	412.0	433.0	454.0	459.3	536.1	638.6	689.8	781.9	966.0
130°	470.9	448.3	425.6	448.3	470.9	476.6	546.5	639.7	686.2	768.2	932.1
132.5°	485.1	462.4	439.8	462.4	485.1	490.7	554.8	640.3	683.1	756.4	903.2
135°	501.9	481.3	460.7	481.3	501.9	507.0	563.9	639.7	677.6	739.1	862.0
137.5°	522.9	502.4	482.0	502.4	522.9	527.9	577.5	643.6	676.6	728.6	832.5
140°	537.3	518.5	499.8	518.5	537.3	542.1	585.9	644.3	673.5	718.4	808.1
142.5°	548.1	530.8	513.4	530.8	548.1	552.5	592.9	646.6	673.5	712.9	791.7
145°	564.7	549.5	534.4	549.5	564.7	568.4	601.9	646.6	668.9	701.1	765.6
147.5°	584.8	570.0	555.3	570.0	584.8	588.5	615.2	651.0	668.9	694.3	745.1
150°	595.6	582.2	568.9	582.2	595.6	598.9	622.3	653.4	668.9	690.3	733.2
152.5°	603.2	593.1	583.0	593.1	603.2	605.8	626.8	654.9	668.9	687.2	723.8
155°	618.9	611.4	603.9	611.4	618.9	620.7	636.8	658.2	668.9	683.5	712.6
157.5°	633.9	626.7	619.4	626.7	633.9	635.7	646.8	661.5	668.9	680.2	702.9
160°	641.2	635.5	629.8	635.5	641.2	642.6	651.3	663.0	668.9	678.6	698.0
162.5°	648.8	644.5	640.3	644.5	648.8	649.9	656.2	664.7	668.9	677.1	693.5
165°	659.3	655.5	651.6	655.5	659.3	660.3	663.2	667.0	668.9	674.8	686.5
167.5°	665.8	663.9	662.2	663.9	665.8	666.2	668.7	671.9	673.5	677.3	685.0
170°	672.6	670.8	668.9	670.8	672.6	673.0	673.2	673.4	673.5	677.3	685.0
172.5°	673.4	673.0	672.6	673.0	673.4	673.5	673.5	673.5	673.5	676.5	682.5
175°	677.6	677.6	677.6	677.6	677.6	677.6	676.2	674.4	673.5	675.4	679.2
177.5°	677.6	677.6	677.6	677.6	677.6	677.6	676.6	675.1	674.4	675.9	678.9
180°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6



TEST NUMBER: P935757

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1516.1	1511.6	1517.6	1501.2	1517.6	1511.6	1516.1	1526.5	1517.6	1523.5	1529.5
5°	1330.3	1322.9	1299.1	1279.8	1299.1	1322.9	1330.3	1361.5	1376.4	1403.2	1438.8
7.5°	1189.1	1183.2	1177.2	1165.3	1177.2	1183.2	1189.1	1198.0	1212.8	1236.6	1263.4
10°	1157.9	1159.4	1168.3	1166.8	1168.3	1159.4	1157.9	1154.9	1150.5	1154.9	1171.2
12.5°	1238.1	1251.5	1300.6	1297.6	1300.6	1251.5	1238.1	1178.7	1138.5	1131.2	1134.1
15°	1330.3	1334.8	1345.2	1346.6	1345.2	1334.8	1330.3	1306.6	1186.1	1134.1	1117.7
17.5°	1339.2	1340.7	1348.1	1348.1	1348.1	1340.7	1339.2	1328.8	1288.6	1218.8	1126.7
20°	1331.8	1334.8	1349.6	1352.6	1349.6	1334.8	1331.8	1318.4	1296.1	1270.8	1201.0
22.5°	1328.8	1334.8	1346.6	1345.2	1346.6	1334.8	1328.8	1308.0	1288.6	1270.8	1242.6
25°	1313.9	1313.9	1315.4	1316.9	1315.4	1313.9	1313.9	1297.6	1259.0	1254.5	1238.1
27.5°	1282.8	1285.7	1294.6	1293.1	1294.6	1285.7	1282.8	1276.8	1235.2	1230.7	1218.8
30°	1254.5	1251.5	1244.1	1238.1	1244.1	1251.5	1254.5	1245.6	1204.0	1192.0	1195.0
32.5°	1207.0	1199.5	1192.0	1187.6	1192.0	1199.5	1207.0	1204.0	1172.7	1156.4	1159.4
35°	1150.5	1151.9	1150.5	1146.0	1150.5	1151.9	1150.5	1153.4	1134.1	1119.2	1117.7
37.5°	1110.3	1113.2	1111.8	1105.9	1111.8	1113.2	1110.3	1107.4	1080.6	1076.1	1079.1
40°	1068.7	1070.2	1068.7	1064.2	1068.7	1070.2	1068.7	1062.7	1025.6	1027.1	1037.4
42.5°	1028.6	1027.1	1022.6	1019.6	1022.6	1027.1	1028.6	1019.6	972.1	967.6	986.9
45°	982.5	984.0	975.1	970.6	975.1	984.0	982.5	976.6	927.5	915.6	929.0
47.5°	936.4	936.4	929.0	924.5	929.0	936.4	936.4	929.0	877.0	865.0	872.5
50°	887.3	885.9	875.5	874.0	875.5	885.9	887.3	882.9	827.9	817.5	817.5
52.5°	830.9	830.9	832.4	835.4	832.4	830.9	830.9	832.4	783.4	772.9	769.9
55°	781.9	783.4	793.7	796.7	793.7	783.4	781.9	781.9	737.2	726.8	720.9
57.5°	731.3	731.3	738.7	738.7	738.7	731.3	731.3	728.3	685.3	676.3	673.3
60°	673.3	676.3	682.3	680.8	682.3	676.3	673.3	670.3	633.2	627.3	616.8
62.5°	612.4	615.3	616.8	613.8	616.8	615.3	612.4	603.5	581.2	576.7	563.3
65°	548.5	551.5	552.9	550.0	552.9	551.5	548.5	544.0	527.7	520.2	508.4
67.5°	483.1	481.6	480.1	486.1	480.1	481.6	483.1	477.1	466.7	460.8	444.4
70°	416.1	416.1	414.7	417.6	414.7	416.1	416.1	411.7	405.8	401.3	386.5
72.5°	344.8	343.3	349.3	344.8	349.3	343.3	344.8	343.3	340.3	336.0	321.0
75°	275.0	278.0	275.0	279.5	275.0	278.0	275.0	276.5	275.0	272.0	261.6
77.5°	209.6	212.5	209.6	209.6	209.6	212.5	209.6	211.1	211.1	211.1	202.2
80°	148.6	147.1	147.1	145.6	147.1	147.1	148.6	148.6	150.1	147.1	144.2
82.5°	95.1	93.6	93.6	96.6	93.6	93.6	95.1	96.6	93.6	93.6	93.6
85°	52.0	53.5	50.5	50.5	50.5	53.5	52.0	49.0	52.0	52.0	50.5
87.5°	19.3	17.8	17.8	17.8	17.8	17.8	19.3	20.8	20.8	20.8	22.3
90°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	23.0	30.7	34.5	29.7
92.5°	86.4	83.0	69.2	55.5	69.2	83.0	86.4	122.5	170.6	194.6	170.9
95°	293.4	282.9	241.3	199.6	241.3	282.9	293.4	385.2	507.7	568.9	480.4
97.5°	677.1	657.3	578.1	498.9	578.1	657.3	677.1	735.1	812.5	851.2	703.8
100°	950.8	927.2	832.9	738.5	832.9	927.2	950.8	946.6	940.9	938.1	774.5
102.5°	1184.7	1164.5	1083.6	1002.8	1083.6	1164.5	1184.7	1110.7	1012.1	962.7	796.8
105°	1457.5	1446.6	1403.2	1359.7	1403.2	1446.6	1457.5	1291.6	1070.6	960.0	799.3
107.5°	1599.3	1601.9	1612.5	1623.0	1612.5	1601.9	1599.3	1368.0	1059.7	905.4	763.8
110°	1635.7	1647.1	1692.3	1737.5	1692.3	1647.1	1635.7	1377.2	1032.4	859.9	732.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1612.6	1630.0	1699.4	1769.0	1699.4	1630.0	1612.6	1347.9	995.0	818.6	704.7
115°	1533.9	1557.9	1654.4	1750.8	1654.4	1557.9	1533.9	1278.9	938.9	769.0	673.0
117.5°	1425.1	1451.8	1558.8	1665.7	1558.8	1451.8	1425.1	1195.0	888.2	734.9	653.4
120°	1352.0	1378.0	1481.8	1585.7	1481.8	1378.0	1352.0	1141.7	861.4	721.3	646.7
122.5°	1278.7	1304.4	1406.8	1509.3	1406.8	1304.4	1278.7	1089.4	837.0	710.8	643.2
125°	1181.8	1205.5	1299.8	1394.2	1299.8	1205.5	1181.8	1021.0	806.6	699.4	640.3
127.5°	1104.1	1124.0	1203.6	1283.3	1203.6	1124.0	1104.1	966.0	781.9	689.8	638.6
130°	1055.0	1073.4	1147.0	1220.6	1147.0	1073.4	1055.0	932.1	768.2	686.2	639.7
132.5°	1013.2	1029.6	1095.5	1161.4	1095.5	1029.6	1013.2	903.2	756.4	683.1	640.3
135°	954.1	968.3	1025.1	1081.8	1025.1	968.3	954.1	862.0	739.1	677.6	639.7
137.5°	910.4	922.0	968.5	1015.0	968.5	922.0	910.4	832.5	728.6	676.6	643.6
140°	875.4	886.3	929.7	973.2	929.7	886.3	875.4	808.1	718.4	673.5	644.3
142.5°	850.8	860.1	897.5	935.0	897.5	860.1	850.8	791.7	712.9	673.5	646.6
145°	814.0	821.1	849.4	877.7	849.4	821.1	814.0	765.6	701.1	668.9	646.6
147.5°	783.1	789.0	812.3	835.8	812.3	789.0	783.1	745.1	694.3	668.9	651.0
150°	765.4	770.1	789.2	808.1	789.2	770.1	765.4	733.2	690.3	668.9	653.4
152.5°	751.2	754.8	769.1	783.5	769.1	754.8	751.2	723.8	687.2	668.9	654.9
155°	734.4	736.8	746.3	755.8	746.3	736.8	734.4	712.6	683.5	668.9	658.2
157.5°	719.9	721.5	728.2	734.9	728.2	721.5	719.9	702.9	680.2	668.9	661.5
160°	712.6	713.5	717.4	721.3	717.4	713.5	712.6	698.0	678.6	668.9	663.0
162.5°	705.8	706.7	710.4	714.0	710.4	706.7	705.8	693.5	677.1	668.9	664.7
165°	695.3	696.2	700.1	704.0	700.1	696.2	695.3	686.5	674.8	668.9	667.0
167.5°	690.8	691.2	692.8	694.4	692.8	691.2	690.8	685.0	677.3	673.5	671.9
170°	690.8	690.8	690.8	690.8	690.8	690.8	690.8	685.0	677.3	673.5	673.4
172.5°	687.1	686.7	685.3	683.9	685.3	686.7	687.1	682.5	676.5	673.5	673.5
175°	682.1	682.1	682.1	682.1	682.1	682.1	682.1	679.2	675.4	673.5	674.4
177.5°	681.2	680.8	679.2	677.6	679.2	680.8	681.2	678.9	675.9	674.4	675.1
180°	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6	677.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1551.8	1559.2	1563.6	1569.6	1584.5
5°	1492.3	1520.5	1529.5	1551.8	1578.5
7.5°	1361.5	1447.7	1471.5	1525.0	1566.6
10°	1235.2	1321.4	1363.0	1489.3	1551.8
12.5°	1171.2	1221.8	1250.0	1426.9	1531.0
15°	1131.2	1166.8	1187.6	1343.7	1507.2
17.5°	1099.9	1125.2	1140.0	1261.9	1474.5
20°	1080.6	1092.5	1105.9	1202.5	1437.3
22.5°	1067.2	1059.8	1070.2	1160.9	1386.7
25°	1058.3	1030.1	1041.9	1128.2	1327.3
27.5°	1065.7	1003.3	1007.8	1098.4	1264.9
30°	1067.2	970.6	972.1	1067.2	1195.0
32.5°	1056.8	936.4	937.9	1028.6	1116.2
35°	1031.6	896.3	894.8	984.0	1009.3
37.5°	997.3	853.2	853.2	935.0	891.8
40°	955.8	810.1	814.5	871.0	787.7
42.5°	905.2	764.0	769.9	786.3	710.5
45°	850.2	719.4	723.9	664.4	651.0
47.5°	789.2	673.3	674.8	551.5	631.7
50°	716.4	625.8	619.8	472.7	630.2
52.5°	652.5	573.7	555.9	428.1	572.2
55°	590.1	518.7	480.1	393.9	530.7
57.5°	535.1	447.4	410.3	353.8	521.7
60°	484.6	377.5	349.3	310.7	478.6
62.5°	442.9	325.5	319.5	280.9	434.1
65°	398.3	289.8	288.3	255.7	368.6
67.5°	355.3	266.0	264.5	231.9	280.9
70°	309.2	240.8	237.8	206.6	208.1
72.5°	261.6	212.5	209.6	185.8	172.4
75°	214.0	179.9	178.4	162.0	139.7
77.5°	167.9	142.7	145.6	130.8	102.6
80°	120.4	104.1	107.0	93.6	77.3
82.5°	80.3	68.3	71.3	59.5	52.0
85°	44.6	38.6	40.1	31.2	23.8
87.5°	20.8	17.8	17.8	11.9	7.5
90°	20.0	12.7	11.9	8.2	4.6
92.5°	123.4	87.7	80.0	49.1	18.2
95°	303.6	171.0	156.9	100.2	43.7
97.5°	408.9	187.8	175.3	125.3	75.4
100°	447.3	201.9	190.6	145.4	100.0
102.5°	464.9	216.0	205.4	163.2	120.9
105°	478.0	237.0	228.0	192.3	156.4
107.5°	480.4	267.9	259.5	226.2	192.8
110°	476.7	285.1	277.5	247.5	217.4



TEST NUMBER: P935757

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	476.8	306.0	298.8	270.2	241.4
115°	481.3	337.4	330.9	304.3	277.8
117.5°	490.3	367.9	361.9	337.9	313.8
120°	497.6	385.7	380.0	357.4	334.7
122.5°	508.0	406.6	400.9	378.0	355.2
125°	522.1	433.4	428.2	407.4	386.5
127.5°	536.1	459.3	454.0	433.0	412.0
130°	546.5	476.6	470.9	448.3	425.6
132.5°	554.8	490.7	485.1	462.4	439.8
135°	563.9	507.0	501.9	481.3	460.7
137.5°	577.5	527.9	522.9	502.4	482.0
140°	585.9	542.1	537.3	518.5	499.8
142.5°	592.9	552.5	548.1	530.8	513.4
145°	601.9	568.4	564.7	549.5	534.4
147.5°	615.2	588.5	584.8	570.0	555.3
150°	622.3	598.9	595.6	582.2	568.9
152.5°	626.8	605.8	603.2	593.1	583.0
155°	636.8	620.7	618.9	611.4	603.9
157.5°	646.8	635.7	633.9	626.7	619.4
160°	651.3	642.6	641.2	635.5	629.8
162.5°	656.2	649.9	648.8	644.5	640.3
165°	663.2	660.3	659.3	655.5	651.6
167.5°	668.7	666.2	665.8	663.9	662.2
170°	673.2	673.0	672.6	670.8	668.9
172.5°	673.5	673.5	673.4	673.0	672.6
175°	676.2	677.6	677.6	677.6	677.6
177.5°	676.6	677.6	677.6	677.6	677.6
180°	677.6	677.6	677.6	677.6	677.6



TEST NUMBER: P935757
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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	13.93	14.77	14.90	15.76	17.06	16.72	17.57	17.70	18.56	19.85
	3H	14.40	15.16	15.39	16.16	17.48	18.06	18.82	19.04	19.81	21.13
	4H	14.59	15.31	15.59	16.31	17.64	18.50	19.21	19.49	20.21	21.54
	6H	14.71	15.37	15.72	16.38	17.72	18.77	19.43	19.78	20.44	21.78
	8H	14.71	15.34	15.73	16.36	17.70	18.84	19.47	19.86	20.49	21.83
	12H	14.68	15.28	15.70	16.30	17.66	18.88	19.47	19.90	20.49	21.85
4H	2H	14.95	15.67	15.95	16.67	17.99	17.13	17.85	18.14	18.85	20.18
	3H	15.98	16.57	16.99	17.60	18.94	18.63	19.23	19.64	20.25	21.60
	4H	16.25	16.80	17.27	17.82	19.18	19.15	19.70	20.17	20.72	22.08
	6H	16.38	16.85	17.41	17.89	19.25	19.51	19.98	20.54	21.02	22.38
	8H	16.38	16.82	17.41	17.86	19.23	19.61	20.05	20.64	21.08	22.46
	12H	16.35	16.74	17.40	17.80	19.18	19.66	20.05	20.71	21.11	22.49
8H	4H	16.70	17.14	17.73	18.17	19.55	19.27	19.71	20.31	20.75	22.13
	6H	16.96	17.32	18.02	18.40	19.77	19.70	20.06	20.76	21.14	22.52
	8H	17.00	17.32	18.07	18.38	19.78	19.85	20.17	20.91	21.23	22.62
	12H	16.99	17.27	18.05	18.32	19.76	19.94	20.22	21.01	21.28	22.71
12H	4H	16.70	17.10	17.75	18.15	19.53	19.24	19.63	20.29	20.69	22.07
	6H	17.02	17.34	18.08	18.40	19.79	19.70	20.02	20.76	21.08	22.47
	8H	17.08	17.37	18.15	18.42	19.86	19.85	20.13	20.92	21.19	22.63