

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: P934803

Luminaire Tested: SQ4-FA-075U-075D-B40-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934803
REPORT IS A COMBINATION OF REPORTS P933711 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-075D-B40-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

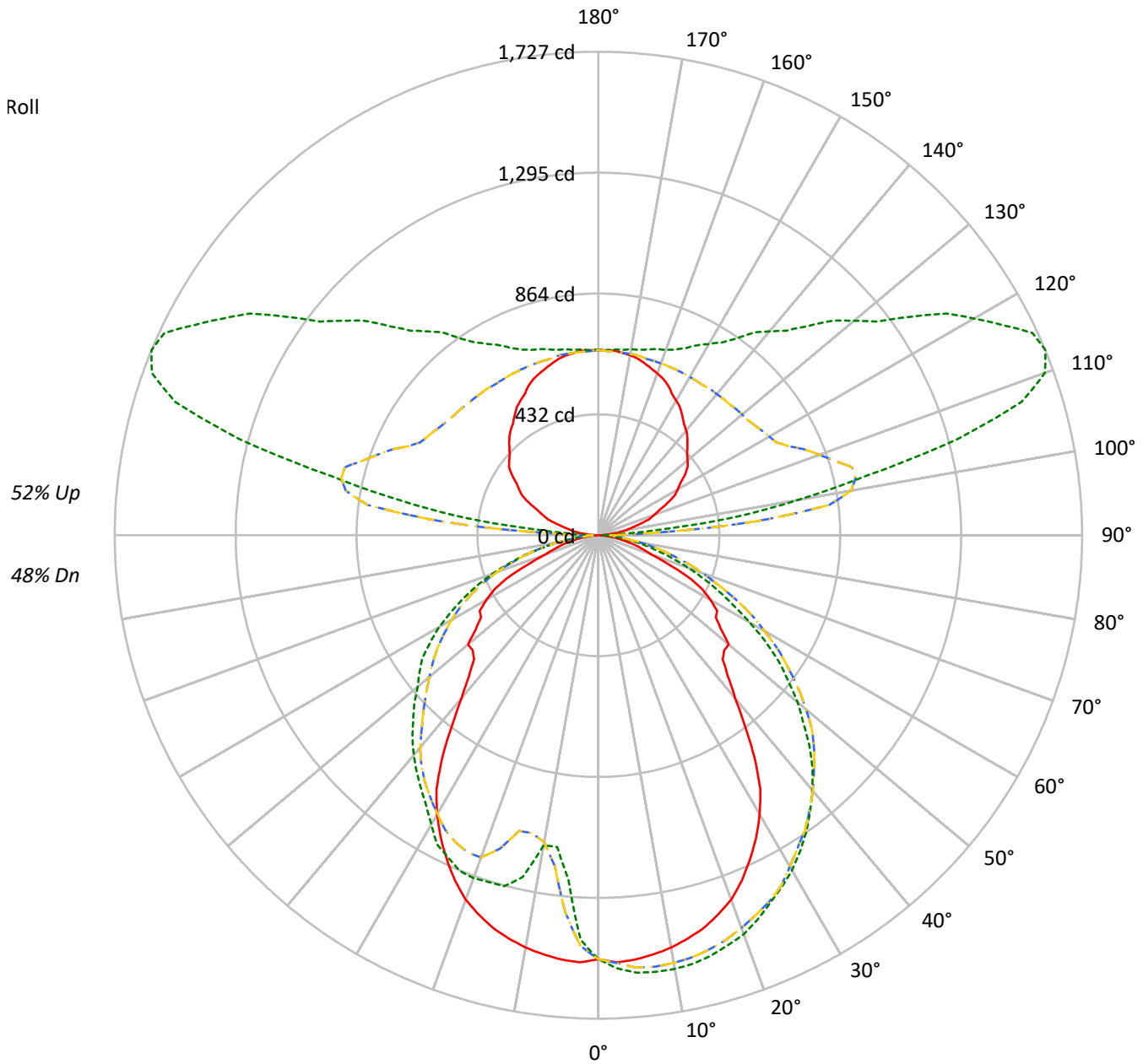
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8217.7 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 63.6
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	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	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	21	21
6	62	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	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	33	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	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9367	9367	9367	9367
5°	9433	9455	9433	7435
10°	9367	9314	9367	6659
15°	9262	9112	9262	7609
20°	9064	8873	9064	7625
25°	8664	8524	8664	7463
30°	8148	8235	8148	7109
35°	7261	7869	7261	6719
40°	6046	7438	6046	6424
45°	5399	6933	5399	6085
50°	5732	6332	5732	5745
55°	5387	5683	5387	5548
60°	5547	4827	5547	5082
65°	5021	3990	5021	4460
70°	3468	3180	3468	3738
75°	3031	2351	3031	2815
80°	2425	1554	2425	1692
85°	1365	823	1365	700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8280 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	1.7
10°-20°	388.1	4.7
20°-30°	599.9	7.3
30°-40°	716.1	8.7
40°-50°	720.3	8.8
50°-60°	626.8	7.6
60°-70°	444.4	5.4
70°-80°	235.1	2.9
80°-90°	61.1	0.7
90°-100°	322.5	3.9
100°-110°	847.9	10.3
110°-120°	879.2	10.7
120°-130°	705.2	8.6
130°-140°	553.4	6.7
140°-150°	424.7	5.2
150°-160°	305.9	3.7
160°-170°	187.1	2.3
170°-180°	63.2	0.8
0°-30°	1124.6	13.7
0°-40°	1840.8	22.4
0°-60°	3187.9	38.8
0°-90°	3928.5	47.8
90°-120°	2049.7	24.9
90°-150°	3733.0	45.4
90°-180°	4289.0	52.2
0°-180°	8217.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1514	1514	1514	1514	1514	
5°	1521	1569	1521	1233	1521	144
15°	1453	1554	1453	1298	1453	409
25°	1279	1450	1279	1269	1279	587
35°	973	1294	973	1104	973	602
45°	627	1066	627	935	627	503
55°	511	786	511	768	511	470
65°	355	474	355	530	355	340
75°	135	225	135	269	135	142
85°	23	57	23	49	23	31
90°	4	17	4	17	4	5
95°	43	195	43	195	43	47
105°	153	1328	153	1328	153	162
115°	271	1710	271	1710	271	268
125°	377	1362	377	1362	377	335
135°	450	1056	450	1056	450	348
145°	522	857	522	857	522	327
155°	590	738	590	738	590	271
165°	636	687	636	687	636	180
175°	662	666	662	666	662	63
180°	662	662	662	662	662	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1527.0	1527.0	1535.6	1538.5	1538.5	1534.2	1529.9	1534.2	1547.1	1551.4	1550.0
5°	1521.3	1532.8	1548.5	1551.4	1554.3	1552.8	1550.0	1552.8	1567.2	1570.0	1571.5
7.5°	1509.9	1531.3	1551.4	1555.7	1560.0	1555.7	1554.3	1557.1	1571.5	1574.3	1574.3
10°	1495.5	1525.6	1548.5	1551.4	1555.7	1551.4	1551.4	1557.1	1571.5	1574.3	1575.8
12.5°	1475.5	1517.0	1538.5	1541.4	1547.1	1545.7	1544.2	1550.0	1564.3	1567.2	1567.2
15°	1452.6	1501.3	1521.3	1524.2	1534.2	1531.3	1531.3	1537.1	1552.8	1557.1	1555.7
17.5°	1421.0	1481.2	1504.1	1508.4	1515.6	1514.2	1515.6	1521.3	1535.6	1538.5	1539.9
20°	1385.2	1454.0	1481.2	1485.5	1492.7	1492.7	1492.7	1499.8	1514.2	1519.9	1519.9
22.5°	1336.5	1425.3	1454.0	1456.9	1465.4	1465.4	1468.3	1478.3	1491.2	1492.7	1492.7
25°	1279.2	1393.8	1418.2	1426.8	1435.4	1439.7	1444.0	1449.7	1454.0	1452.6	1454.0
27.5°	1219.1	1353.7	1385.2	1391.0	1402.4	1406.7	1412.4	1413.9	1415.3	1419.6	1416.7
30°	1151.7	1297.8	1345.1	1350.8	1369.5	1372.3	1366.6	1369.5	1376.6	1379.5	1382.4
32.5°	1075.8	1214.8	1303.6	1316.5	1333.7	1325.1	1323.6	1327.9	1339.4	1339.4	1342.3
35°	972.7	1150.3	1264.9	1276.4	1289.2	1279.2	1285.0	1286.4	1293.5	1297.8	1296.4
37.5°	859.5	1094.4	1224.8	1233.4	1243.4	1230.5	1239.1	1243.4	1249.1	1246.3	1246.3
40°	759.2	1007.0	1177.5	1183.2	1191.8	1181.8	1190.4	1193.3	1196.1	1193.3	1191.8
42.5°	684.7	911.1	1127.4	1134.5	1128.8	1136.0	1138.8	1144.6	1140.3	1134.5	1134.5
45°	627.4	885.3	1072.9	1081.5	1072.9	1084.4	1088.7	1088.7	1075.8	1072.9	1071.5
47.5°	608.8	833.7	1018.5	1018.5	1014.2	1028.5	1035.7	1025.7	1012.8	1008.5	1008.5
50°	607.4	776.4	944.0	938.3	958.3	975.5	968.4	958.3	948.3	932.6	932.6
52.5°	551.5	706.2	848.0	869.5	901.0	911.1	899.6	889.6	872.4	865.2	859.5
55°	511.4	633.2	760.7	803.6	836.6	849.5	828.0	818.0	792.2	787.9	785.0
57.5°	502.8	527.2	680.4	734.9	775.0	773.6	760.7	742.0	720.5	716.2	714.8
60°	461.3	381.0	594.5	658.9	700.5	696.2	684.7	667.5	647.5	644.6	641.8
62.5°	418.3	276.5	497.1	570.1	628.9	627.4	617.4	591.6	577.3	570.1	564.4
65°	355.3	232.1	353.8	474.2	558.7	561.5	540.1	521.4	505.7	497.1	495.6
67.5°	270.7	189.1	239.2	395.4	491.3	488.5	461.3	452.7	432.6	428.3	419.7
70°	200.5	126.1	166.2	320.9	425.5	418.3	396.8	386.8	368.2	358.1	352.4
72.5°	166.2	101.7	121.8	249.3	358.1	349.5	330.9	319.4	303.7	295.1	289.4
75°	134.7	107.4	93.1	184.8	290.8	285.1	267.9	256.4	243.5	232.1	233.5
77.5°	98.8	100.3	74.5	136.1	230.6	222.0	212.0	197.7	192.0	180.5	180.5
80°	74.5	78.8	55.9	93.1	166.2	166.2	157.6	147.5	137.5	131.8	131.8
82.5°	50.1	50.1	41.5	58.7	113.2	108.9	103.1	100.3	94.5	91.7	91.7
85°	22.9	28.6	25.8	35.8	61.6	64.5	64.5	61.6	60.2	57.3	58.7
87.5°	7.2	12.9	15.8	20.1	31.5	32.9	34.4	34.4	34.4	35.8	35.8
90°	4.4	7.9	11.6	12.4	19.5	28.9	33.7	30.0	22.5	16.9	16.9
92.5°	17.8	47.9	78.1	85.7	120.4	166.8	190.0	166.6	119.6	84.3	81.0
95°	42.6	97.9	153.1	166.9	296.4	469.2	555.5	495.7	376.1	286.4	276.3
97.5°	73.7	122.4	171.1	183.4	399.4	687.3	831.3	793.5	718.0	661.2	641.9
100°	97.7	141.9	186.1	197.2	436.8	756.4	916.1	918.9	924.4	928.5	905.5
102.5°	118.1	159.4	200.6	211.0	454.0	778.0	940.1	988.2	1084.6	1156.8	1137.0
105°	152.8	187.8	222.7	231.4	466.7	780.5	937.4	1045.3	1261.3	1423.2	1412.6
107.5°	188.3	220.9	253.5	261.6	469.1	745.8	884.1	1034.7	1335.9	1561.8	1564.4
110°	212.3	241.7	271.0	278.4	465.5	715.0	839.7	1008.1	1344.8	1597.3	1608.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	235.8	263.8	291.8	298.8	465.7	688.1	799.3	971.6	1316.2	1574.6	1591.6
115°	271.3	297.2	323.0	329.5	470.0	657.2	750.9	916.9	1248.9	1497.8	1521.3
117.5°	306.4	329.9	353.3	359.3	478.7	637.9	717.6	867.4	1167.0	1391.7	1417.8
120°	326.8	349.0	371.0	376.6	485.8	631.4	704.3	841.2	1114.9	1320.2	1345.6
122.5°	346.9	369.1	391.5	397.0	496.0	628.1	694.1	817.3	1063.8	1248.7	1273.7
125°	377.4	397.8	418.1	423.2	509.8	625.2	683.0	787.7	997.1	1154.1	1177.1
127.5°	402.3	422.9	443.3	448.5	523.5	623.6	673.7	763.5	943.3	1078.2	1097.7
130°	415.6	437.8	459.8	465.4	533.7	624.7	670.1	750.2	910.2	1030.3	1048.2
132.5°	429.4	451.5	473.6	479.1	541.8	625.2	667.0	738.6	881.9	989.4	1005.4
135°	449.8	470.0	490.1	495.2	550.7	624.7	661.6	721.6	841.6	931.6	945.4
137.5°	470.7	490.6	510.5	515.5	563.9	628.5	660.8	711.5	812.9	889.0	900.4
140°	488.0	506.3	524.8	529.4	572.1	629.2	657.6	701.4	789.1	854.8	865.4
142.5°	501.4	518.4	535.4	539.6	578.9	631.4	657.6	696.1	773.1	830.8	840.0
145°	521.8	536.6	551.3	555.0	587.8	631.4	653.2	684.7	747.7	794.8	801.7
147.5°	542.2	556.6	571.0	574.6	600.8	635.7	653.2	678.0	727.5	764.7	770.4
150°	555.5	568.5	581.6	584.8	607.7	638.0	653.2	674.1	716.0	747.4	752.1
152.5°	569.3	579.2	589.0	591.5	612.1	639.5	653.2	671.1	706.8	733.6	737.2
155°	589.7	597.0	604.3	606.1	621.8	642.7	653.2	667.4	695.9	717.2	719.5
157.5°	604.8	612.0	619.0	620.8	631.6	646.1	653.2	664.3	686.4	703.0	704.6
160°	615.0	620.6	626.1	627.4	636.0	647.5	653.2	662.7	681.6	695.8	696.8
162.5°	625.2	629.4	633.5	634.6	640.8	649.1	653.2	661.2	677.2	689.2	690.1
165°	636.3	640.1	643.9	644.8	647.6	651.3	653.2	658.9	670.4	679.0	680.0
167.5°	646.5	648.3	650.1	650.5	652.9	656.1	657.6	661.3	668.9	674.5	674.9
170°	653.2	655.0	656.8	657.2	657.3	657.5	657.6	661.3	668.9	674.5	674.5
172.5°	656.8	657.1	657.5	657.6	657.6	657.6	657.6	660.6	666.5	671.0	670.6
175°	661.6	661.6	661.6	661.6	660.3	658.5	657.6	659.5	663.2	666.1	666.1
177.5°	661.6	661.6	661.6	661.6	660.6	659.2	658.6	660.1	663.1	665.3	664.9
180°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1552.8	1548.5	1552.8	1550.0	1551.4	1547.1	1534.2	1529.9	1534.2	1538.5	1538.5
5°	1571.5	1568.6	1571.5	1571.5	1570.0	1567.2	1552.8	1550.0	1552.8	1554.3	1551.4
7.5°	1577.2	1572.9	1577.2	1574.3	1574.3	1571.5	1557.1	1554.3	1555.7	1560.0	1555.7
10°	1577.2	1572.9	1577.2	1575.8	1574.3	1571.5	1557.1	1551.4	1551.4	1555.7	1551.4
12.5°	1570.0	1567.2	1570.0	1567.2	1567.2	1564.3	1550.0	1544.2	1545.7	1547.1	1541.4
15°	1558.6	1554.3	1558.6	1555.7	1557.1	1552.8	1537.1	1531.3	1531.3	1534.2	1524.2
17.5°	1541.4	1535.6	1541.4	1539.9	1538.5	1535.6	1521.3	1515.6	1514.2	1515.6	1508.4
20°	1521.3	1517.0	1521.3	1519.9	1519.9	1514.2	1499.8	1492.7	1492.7	1492.7	1485.5
22.5°	1489.8	1485.5	1489.8	1492.7	1492.7	1491.2	1478.3	1468.3	1465.4	1465.4	1456.9
25°	1454.0	1449.7	1454.0	1454.0	1452.6	1454.0	1449.7	1444.0	1439.7	1435.4	1426.8
27.5°	1419.6	1416.7	1419.6	1416.7	1419.6	1415.3	1413.9	1412.4	1406.7	1402.4	1391.0
30°	1385.2	1382.4	1385.2	1382.4	1379.5	1376.6	1369.5	1366.6	1372.3	1369.5	1350.8
32.5°	1342.3	1339.4	1342.3	1342.3	1339.4	1339.4	1327.9	1323.6	1325.1	1333.7	1316.5
35°	1297.8	1293.5	1297.8	1296.4	1297.8	1293.5	1286.4	1285.0	1279.2	1289.2	1276.4
37.5°	1246.3	1242.0	1246.3	1246.3	1246.3	1249.1	1243.4	1239.1	1230.5	1243.4	1233.4
40°	1193.3	1187.5	1193.3	1191.8	1193.3	1196.1	1193.3	1190.4	1181.8	1191.8	1183.2
42.5°	1133.1	1131.7	1133.1	1134.5	1134.5	1140.3	1144.6	1138.8	1136.0	1128.8	1134.5
45°	1068.6	1065.8	1068.6	1071.5	1072.9	1075.8	1088.7	1088.7	1084.4	1072.9	1081.5
47.5°	999.9	992.7	999.9	1008.5	1008.5	1012.8	1025.7	1035.7	1028.5	1014.2	1018.5
50°	926.8	928.3	926.8	932.6	932.6	948.3	958.3	968.4	975.5	958.3	938.3
52.5°	855.2	853.8	855.2	859.5	865.2	872.4	889.6	899.6	911.1	901.0	869.5
55°	783.6	786.4	783.6	785.0	787.9	792.2	818.0	828.0	849.5	836.6	803.6
57.5°	712.0	707.7	712.0	714.8	716.2	720.5	742.0	760.7	773.6	775.0	734.9
60°	628.9	623.1	628.9	641.8	644.6	647.5	667.5	684.7	696.2	700.5	658.9
62.5°	555.8	545.8	555.8	564.4	570.1	577.3	591.6	617.4	627.4	628.9	570.1
65°	478.5	474.2	478.5	495.6	497.1	505.7	521.4	540.1	561.5	558.7	474.2
67.5°	408.3	408.3	408.3	419.7	428.3	432.6	452.7	461.3	488.5	491.3	395.4
70°	343.8	342.4	343.8	352.4	358.1	368.2	386.8	396.8	418.3	425.5	320.9
72.5°	282.2	280.8	282.2	289.4	295.1	303.7	319.4	330.9	349.5	358.1	249.3
75°	227.8	224.9	227.8	233.5	232.1	243.5	256.4	267.9	285.1	290.8	184.8
77.5°	174.8	174.8	174.8	180.5	180.5	192.0	197.7	212.0	222.0	230.6	136.1
80°	130.4	128.9	130.4	131.8	131.8	137.5	147.5	157.6	166.2	166.2	93.1
82.5°	91.7	88.8	91.7	91.7	91.7	94.5	100.3	103.1	108.9	113.2	58.7
85°	57.3	57.3	57.3	58.7	57.3	60.2	61.6	64.5	64.5	61.6	35.8
87.5°	37.2	35.8	37.2	35.8	35.8	34.4	34.4	34.4	32.9	31.5	20.1
90°	16.9	16.9	16.9	16.9	16.9	22.5	30.0	33.7	28.9	19.5	12.4
92.5°	67.5	54.1	67.5	81.0	84.3	119.6	166.6	190.0	166.8	120.4	85.7
95°	235.6	194.9	235.6	276.3	286.4	376.1	495.7	555.5	469.2	296.4	166.9
97.5°	564.5	487.1	564.5	641.9	661.2	718.0	793.5	831.3	687.3	399.4	183.4
100°	813.3	721.1	813.3	905.5	928.5	924.4	918.9	916.1	756.4	436.8	197.2
102.5°	1058.1	979.2	1058.1	1137.0	1156.8	1084.6	988.2	940.1	778.0	454.0	211.0
105°	1370.1	1327.7	1370.1	1412.6	1423.2	1261.3	1045.3	937.4	780.5	466.7	231.4
107.5°	1574.6	1584.8	1574.6	1564.4	1561.8	1335.9	1034.7	884.1	745.8	469.1	261.6
110°	1652.5	1696.7	1652.5	1608.4	1597.3	1344.8	1008.1	839.7	715.0	465.5	278.4



TEST NUMBER: P934803

CATALOG NUMBER: SQ4-FA-075U-075D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1659.5	1727.4	1659.5	1591.6	1574.6	1316.2	971.6	799.3	688.1	465.7	298.8
115°	1615.5	1709.6	1615.5	1521.3	1497.8	1248.9	916.9	750.9	657.2	470.0	329.5
117.5°	1522.2	1626.6	1522.2	1417.8	1391.7	1167.0	867.4	717.6	637.9	478.7	359.3
120°	1447.0	1548.4	1447.0	1345.6	1320.2	1114.9	841.2	704.3	631.4	485.8	376.6
122.5°	1373.8	1473.9	1373.8	1273.7	1248.7	1063.8	817.3	694.1	628.1	496.0	397.0
125°	1269.4	1361.5	1269.4	1177.1	1154.1	997.1	787.7	683.0	625.2	509.8	423.2
127.5°	1175.4	1253.2	1175.4	1097.7	1078.2	943.3	763.5	673.7	623.6	523.5	448.5
130°	1120.0	1191.8	1120.0	1048.2	1030.3	910.2	750.2	670.1	624.7	533.7	465.4
132.5°	1069.8	1134.2	1069.8	1005.4	989.4	881.9	738.6	667.0	625.2	541.8	479.1
135°	1000.9	1056.4	1000.9	945.4	931.6	841.6	721.6	661.6	624.7	550.7	495.2
137.5°	945.7	991.2	945.7	900.4	889.0	812.9	711.5	660.8	628.5	563.9	515.5
140°	907.9	950.3	907.9	865.4	854.8	789.1	701.4	657.6	629.2	572.1	529.4
142.5°	876.5	913.0	876.5	840.0	830.8	773.1	696.1	657.6	631.4	578.9	539.6
145°	829.4	857.0	829.4	801.7	794.8	747.7	684.7	653.2	631.4	587.8	555.0
147.5°	793.2	816.1	793.2	770.4	764.7	727.5	678.0	653.2	635.7	600.8	574.6
150°	770.6	789.1	770.6	752.1	747.4	716.0	674.1	653.2	638.0	607.7	584.8
152.5°	751.1	765.1	751.1	737.2	733.6	706.8	671.1	653.2	639.5	612.1	591.5
155°	728.8	738.0	728.8	719.5	717.2	695.9	667.4	653.2	642.7	621.8	606.1
157.5°	711.1	717.6	711.1	704.6	703.0	686.4	664.3	653.2	646.1	631.6	620.8
160°	700.5	704.3	700.5	696.8	695.8	681.6	662.7	653.2	647.5	636.0	627.4
162.5°	693.6	697.2	693.6	690.1	689.2	677.2	661.2	653.2	649.1	640.8	634.6
165°	683.7	687.4	683.7	680.0	679.0	670.4	658.9	653.2	651.3	647.6	644.8
167.5°	676.5	678.0	676.5	674.9	674.5	668.9	661.3	657.6	656.1	652.9	650.5
170°	674.5	674.5	674.5	674.5	674.5	668.9	661.3	657.6	657.5	657.3	657.2
172.5°	669.3	667.8	669.3	670.6	671.0	666.5	660.6	657.6	657.6	657.6	657.6
175°	666.1	666.1	666.1	666.1	666.1	663.2	659.5	657.6	658.5	660.3	661.6
177.5°	663.2	661.6	663.2	664.9	665.3	663.1	660.1	658.6	659.2	660.6	661.6
180°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6



TEST NUMBER: P934803

CATALOG NUMBER: SQ4-FA-075U-075D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1535.6	1527.0	1527.0	1512.7	1507.0	1502.7	1495.5	1474.0	1468.3	1462.6	1471.2
5°	1548.5	1532.8	1521.3	1495.5	1474.0	1465.4	1438.2	1386.7	1352.3	1326.5	1312.2
7.5°	1551.4	1531.3	1509.9	1469.7	1418.2	1395.3	1312.2	1217.6	1191.8	1168.9	1154.6
10°	1548.5	1525.6	1495.5	1435.4	1313.6	1273.5	1190.4	1128.8	1113.1	1108.8	1113.1
12.5°	1538.5	1517.0	1475.5	1375.2	1204.7	1177.5	1128.8	1093.0	1090.1	1097.3	1136.0
15°	1521.3	1501.3	1452.6	1295.0	1144.6	1124.5	1090.1	1077.2	1093.0	1143.1	1259.2
17.5°	1504.1	1481.2	1421.0	1216.2	1098.7	1084.4	1060.0	1085.8	1174.6	1242.0	1280.7
20°	1481.2	1454.0	1385.2	1158.9	1065.8	1052.9	1041.4	1157.5	1224.8	1249.1	1270.6
22.5°	1454.0	1425.3	1336.5	1118.8	1031.4	1021.4	1028.5	1197.6	1224.8	1242.0	1260.6
25°	1418.2	1393.8	1279.2	1087.3	1004.2	992.7	1019.9	1193.3	1209.0	1213.3	1250.6
27.5°	1385.2	1353.7	1219.1	1058.6	971.2	966.9	1027.1	1174.6	1186.1	1190.4	1230.5
30°	1345.1	1297.8	1151.7	1028.5	936.9	935.4	1028.5	1151.7	1148.9	1160.3	1200.4
32.5°	1303.6	1214.8	1075.8	991.3	903.9	902.5	1018.5	1117.4	1114.5	1130.2	1160.3
35°	1264.9	1150.3	972.7	948.3	862.4	863.8	994.2	1077.2	1078.7	1093.0	1111.6
37.5°	1224.8	1094.4	859.5	901.0	822.3	822.3	961.2	1040.0	1037.1	1041.4	1067.2
40°	1177.5	1007.0	759.2	839.4	785.0	780.7	921.1	999.9	989.9	988.4	1024.2
42.5°	1127.4	911.1	684.7	757.8	742.0	736.3	872.4	951.2	932.6	936.9	982.7
45°	1072.9	885.3	627.4	640.3	697.6	693.3	819.4	895.3	882.4	893.9	941.2
47.5°	1018.5	833.7	608.8	531.5	650.4	648.9	760.7	840.9	833.7	845.2	895.3
50°	944.0	776.4	607.4	455.5	597.4	603.1	690.5	787.9	787.9	797.9	850.9
52.5°	848.0	706.2	551.5	412.6	535.8	552.9	628.9	742.0	744.9	754.9	802.2
55°	760.7	633.2	511.4	379.6	462.7	499.9	568.7	694.8	700.5	710.5	753.5
57.5°	680.4	527.2	502.8	340.9	395.4	431.2	515.7	648.9	651.8	660.4	701.9
60°	594.5	381.0	461.3	299.4	336.6	363.9	467.0	594.5	604.5	610.2	646.1
62.5°	497.1	276.5	418.3	270.7	308.0	313.7	426.9	542.9	555.8	560.1	581.6
65°	353.8	232.1	355.3	246.4	277.9	279.3	383.9	489.9	501.4	508.5	524.3
67.5°	239.2	189.1	270.7	223.5	255.0	256.4	342.4	428.3	444.1	449.8	459.8
70°	166.2	126.1	200.5	199.1	229.2	232.1	298.0	372.4	386.8	391.1	396.8
72.5°	121.8	101.7	166.2	179.1	202.0	204.8	252.1	309.4	323.7	328.0	330.9
75°	93.1	107.4	134.7	156.1	171.9	173.3	206.3	252.1	262.1	265.0	266.4
77.5°	74.5	100.3	98.8	126.1	140.4	137.5	161.9	194.8	203.4	203.4	203.4
80°	55.9	78.8	74.5	90.2	103.1	100.3	116.0	139.0	141.8	144.7	143.2
82.5°	41.5	50.1	50.1	57.3	68.8	65.9	77.4	90.2	90.2	90.2	93.1
85°	25.8	28.6	22.9	30.1	38.7	37.2	43.0	48.7	50.1	50.1	47.3
87.5°	15.8	12.9	7.2	11.5	17.2	17.2	20.1	21.5	20.1	20.1	20.1
90°	11.6	7.9	4.4	7.9	11.6	12.4	19.5	28.9	33.7	30.0	22.5
92.5°	78.1	47.9	17.8	47.9	78.1	85.7	120.4	166.8	190.0	166.6	119.6
95°	153.1	97.9	42.6	97.9	153.1	166.9	296.4	469.2	555.5	495.7	376.1
97.5°	171.1	122.4	73.7	122.4	171.1	183.4	399.4	687.3	831.3	793.5	718.0
100°	186.1	141.9	97.7	141.9	186.1	197.2	436.8	756.4	916.1	918.9	924.4
102.5°	200.6	159.4	118.1	159.4	200.6	211.0	454.0	778.0	940.1	988.2	1084.6
105°	222.7	187.8	152.8	187.8	222.7	231.4	466.7	780.5	937.4	1045.3	1261.3
107.5°	253.5	220.9	188.3	220.9	253.5	261.6	469.1	745.8	884.1	1034.7	1335.9
110°	271.0	241.7	212.3	241.7	271.0	278.4	465.5	715.0	839.7	1008.1	1344.8



TEST NUMBER: P934803

CATALOG NUMBER: SQ4-FA-075U-075D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	291.8	263.8	235.8	263.8	291.8	298.8	465.7	688.1	799.3	971.6	1316.2
115°	323.0	297.2	271.3	297.2	323.0	329.5	470.0	657.2	750.9	916.9	1248.9
117.5°	353.3	329.9	306.4	329.9	353.3	359.3	478.7	637.9	717.6	867.4	1167.0
120°	371.0	349.0	326.8	349.0	371.0	376.6	485.8	631.4	704.3	841.2	1114.9
122.5°	391.5	369.1	346.9	369.1	391.5	397.0	496.0	628.1	694.1	817.3	1063.8
125°	418.1	397.8	377.4	397.8	418.1	423.2	509.8	625.2	683.0	787.7	997.1
127.5°	443.3	422.9	402.3	422.9	443.3	448.5	523.5	623.6	673.7	763.5	943.3
130°	459.8	437.8	415.6	437.8	459.8	465.4	533.7	624.7	670.1	750.2	910.2
132.5°	473.6	451.5	429.4	451.5	473.6	479.1	541.8	625.2	667.0	738.6	881.9
135°	490.1	470.0	449.8	470.0	490.1	495.2	550.7	624.7	661.6	721.6	841.6
137.5°	510.5	490.6	470.7	490.6	510.5	515.5	563.9	628.5	660.8	711.5	812.9
140°	524.8	506.3	488.0	506.3	524.8	529.4	572.1	629.2	657.6	701.4	789.1
142.5°	535.4	518.4	501.4	518.4	535.4	539.6	578.9	631.4	657.6	696.1	773.1
145°	551.3	536.6	521.8	536.6	551.3	555.0	587.8	631.4	653.2	684.7	747.7
147.5°	571.0	556.6	542.2	556.6	571.0	574.6	600.8	635.7	653.2	678.0	727.5
150°	581.6	568.5	555.5	568.5	581.6	584.8	607.7	638.0	653.2	674.1	716.0
152.5°	589.0	579.2	569.3	579.2	589.0	591.5	612.1	639.5	653.2	671.1	706.8
155°	604.3	597.0	589.7	597.0	604.3	606.1	621.8	642.7	653.2	667.4	695.9
157.5°	619.0	612.0	604.8	612.0	619.0	620.8	631.6	646.1	653.2	664.3	686.4
160°	626.1	620.6	615.0	620.6	626.1	627.4	636.0	647.5	653.2	662.7	681.6
162.5°	633.5	629.4	625.2	629.4	633.5	634.6	640.8	649.1	653.2	661.2	677.2
165°	643.9	640.1	636.3	640.1	643.9	644.8	647.6	651.3	653.2	658.9	670.4
167.5°	650.1	648.3	646.5	648.3	650.1	650.5	652.9	656.1	657.6	661.3	668.9
170°	656.8	655.0	653.2	655.0	656.8	657.2	657.3	657.5	657.6	661.3	668.9
172.5°	657.5	657.1	656.8	657.1	657.5	657.6	657.6	657.6	657.6	660.6	666.5
175°	661.6	661.6	661.6	661.6	661.6	661.6	660.3	658.5	657.6	659.5	663.2
177.5°	661.6	661.6	661.6	661.6	661.6	661.6	660.6	659.2	658.6	660.1	663.1
180°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6



TEST NUMBER: P934803

CATALOG NUMBER: SQ4-FA-075U-075D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1461.1	1456.9	1462.6	1446.8	1462.6	1456.9	1461.1	1471.2	1462.6	1468.3	1474.0
5°	1282.1	1274.9	1252.0	1233.4	1252.0	1274.9	1282.1	1312.2	1326.5	1352.3	1386.7
7.5°	1146.0	1140.3	1134.5	1123.1	1134.5	1140.3	1146.0	1154.6	1168.9	1191.8	1217.6
10°	1115.9	1117.4	1125.9	1124.5	1125.9	1117.4	1115.9	1113.1	1108.8	1113.1	1128.8
12.5°	1193.3	1206.2	1253.4	1250.6	1253.4	1206.2	1193.3	1136.0	1097.3	1090.1	1093.0
15°	1282.1	1286.4	1296.4	1297.8	1296.4	1286.4	1282.1	1259.2	1143.1	1093.0	1077.2
17.5°	1290.7	1292.1	1299.3	1299.3	1299.3	1292.1	1290.7	1280.7	1242.0	1174.6	1085.8
20°	1283.5	1286.4	1300.7	1303.6	1300.7	1286.4	1283.5	1270.6	1249.1	1224.8	1157.5
22.5°	1280.7	1286.4	1297.8	1296.4	1297.8	1286.4	1280.7	1260.6	1242.0	1224.8	1197.6
25°	1266.3	1266.3	1267.8	1269.2	1267.8	1266.3	1266.3	1250.6	1213.3	1209.0	1193.3
27.5°	1236.2	1239.1	1247.7	1246.3	1247.7	1239.1	1236.2	1230.5	1190.4	1186.1	1174.6
30°	1209.0	1206.2	1199.0	1193.3	1199.0	1206.2	1209.0	1200.4	1160.3	1148.9	1151.7
32.5°	1163.2	1156.0	1148.9	1144.6	1148.9	1156.0	1163.2	1160.3	1130.2	1114.5	1117.4
35°	1108.8	1110.2	1108.8	1104.5	1108.8	1110.2	1108.8	1111.6	1093.0	1078.7	1077.2
37.5°	1070.1	1072.9	1071.5	1065.8	1071.5	1072.9	1070.1	1067.2	1041.4	1037.1	1040.0
40°	1030.0	1031.4	1030.0	1025.7	1030.0	1031.4	1030.0	1024.2	988.4	989.9	999.9
42.5°	991.3	989.9	985.6	982.7	985.6	989.9	991.3	982.7	936.9	932.6	951.2
45°	946.9	948.3	939.7	935.4	939.7	948.3	946.9	941.2	893.9	882.4	895.3
47.5°	902.5	902.5	895.3	891.0	895.3	902.5	902.5	895.3	845.2	833.7	840.9
50°	855.2	853.8	843.7	842.3	843.7	853.8	855.2	850.9	797.9	787.9	787.9
52.5°	800.8	800.8	802.2	805.1	802.2	800.8	800.8	802.2	754.9	744.9	742.0
55°	753.5	754.9	765.0	767.8	765.0	754.9	753.5	753.5	710.5	700.5	694.8
57.5°	704.8	704.8	712.0	712.0	712.0	704.8	704.8	701.9	660.4	651.8	648.9
60°	648.9	651.8	657.5	656.1	657.5	651.8	648.9	646.1	610.2	604.5	594.5
62.5°	590.2	593.1	594.5	591.6	594.5	593.1	590.2	581.6	560.1	555.8	542.9
65°	528.6	531.5	532.9	530.0	532.9	531.5	528.6	524.3	508.5	501.4	489.9
67.5°	465.6	464.1	462.7	468.4	462.7	464.1	465.6	459.8	449.8	444.1	428.3
70°	401.1	401.1	399.7	402.5	399.7	401.1	401.1	396.8	391.1	386.8	372.4
72.5°	332.3	330.9	336.6	332.3	336.6	330.9	332.3	330.9	328.0	323.7	309.4
75°	265.0	267.9	265.0	269.3	265.0	267.9	265.0	266.4	265.0	262.1	252.1
77.5°	202.0	204.8	202.0	202.0	202.0	204.8	202.0	203.4	203.4	203.4	194.8
80°	143.2	141.8	141.8	140.4	141.8	141.8	143.2	143.2	144.7	141.8	139.0
82.5°	91.7	90.2	90.2	93.1	90.2	90.2	91.7	93.1	90.2	90.2	90.2
85°	50.1	51.6	48.7	48.7	48.7	51.6	50.1	47.3	50.1	50.1	48.7
87.5°	18.6	17.2	17.2	17.2	17.2	17.2	18.6	20.1	20.1	20.1	21.5
90°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	22.5	30.0	33.7	28.9
92.5°	84.3	81.0	67.5	54.1	67.5	81.0	84.3	119.6	166.6	190.0	166.8
95°	286.4	276.3	235.6	194.9	235.6	276.3	286.4	376.1	495.7	555.5	469.2
97.5°	661.2	641.9	564.5	487.1	564.5	641.9	661.2	718.0	793.5	831.3	687.3
100°	928.5	905.5	813.3	721.1	813.3	905.5	928.5	924.4	918.9	916.1	756.4
102.5°	1156.8	1137.0	1058.1	979.2	1058.1	1137.0	1156.8	1084.6	988.2	940.1	778.0
105°	1423.2	1412.6	1370.1	1327.7	1370.1	1412.6	1423.2	1261.3	1045.3	937.4	780.5
107.5°	1561.8	1564.4	1574.6	1584.8	1574.6	1564.4	1561.8	1335.9	1034.7	884.1	745.8
110°	1597.3	1608.4	1652.5	1696.7	1652.5	1608.4	1597.3	1344.8	1008.1	839.7	715.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1574.6	1591.6	1659.5	1727.4	1659.5	1591.6	1574.6	1316.2	971.6	799.3	688.1
115°	1497.8	1521.3	1615.5	1709.6	1615.5	1521.3	1497.8	1248.9	916.9	750.9	657.2
117.5°	1391.7	1417.8	1522.2	1626.6	1522.2	1417.8	1391.7	1167.0	867.4	717.6	637.9
120°	1320.2	1345.6	1447.0	1548.4	1447.0	1345.6	1320.2	1114.9	841.2	704.3	631.4
122.5°	1248.7	1273.7	1373.8	1473.9	1373.8	1273.7	1248.7	1063.8	817.3	694.1	628.1
125°	1154.1	1177.1	1269.4	1361.5	1269.4	1177.1	1154.1	997.1	787.7	683.0	625.2
127.5°	1078.2	1097.7	1175.4	1253.2	1175.4	1097.7	1078.2	943.3	763.5	673.7	623.6
130°	1030.3	1048.2	1120.0	1191.8	1120.0	1048.2	1030.3	910.2	750.2	670.1	624.7
132.5°	989.4	1005.4	1069.8	1134.2	1069.8	1005.4	989.4	881.9	738.6	667.0	625.2
135°	931.6	945.4	1000.9	1056.4	1000.9	945.4	931.6	841.6	721.6	661.6	624.7
137.5°	889.0	900.4	945.7	991.2	945.7	900.4	889.0	812.9	711.5	660.8	628.5
140°	854.8	865.4	907.9	950.3	907.9	865.4	854.8	789.1	701.4	657.6	629.2
142.5°	830.8	840.0	876.5	913.0	876.5	840.0	830.8	773.1	696.1	657.6	631.4
145°	794.8	801.7	829.4	857.0	829.4	801.7	794.8	747.7	684.7	653.2	631.4
147.5°	764.7	770.4	793.2	816.1	793.2	770.4	764.7	727.5	678.0	653.2	635.7
150°	747.4	752.1	770.6	789.1	770.6	752.1	747.4	716.0	674.1	653.2	638.0
152.5°	733.6	737.2	751.1	765.1	751.1	737.2	733.6	706.8	671.1	653.2	639.5
155°	717.2	719.5	728.8	738.0	728.8	719.5	717.2	695.9	667.4	653.2	642.7
157.5°	703.0	704.6	711.1	717.6	711.1	704.6	703.0	686.4	664.3	653.2	646.1
160°	695.8	696.8	700.5	704.3	700.5	696.8	695.8	681.6	662.7	653.2	647.5
162.5°	689.2	690.1	693.6	697.2	693.6	690.1	689.2	677.2	661.2	653.2	649.1
165°	679.0	680.0	683.7	687.4	683.7	680.0	679.0	670.4	658.9	653.2	651.3
167.5°	674.5	674.9	676.5	678.0	676.5	674.9	674.5	668.9	661.3	657.6	656.1
170°	674.5	674.5	674.5	674.5	674.5	674.5	674.5	668.9	661.3	657.6	657.5
172.5°	671.0	670.6	669.3	667.8	669.3	670.6	671.0	666.5	660.6	657.6	657.6
175°	666.1	666.1	666.1	666.1	666.1	666.1	666.1	663.2	659.5	657.6	658.5
177.5°	665.3	664.9	663.2	661.6	663.2	664.9	665.3	663.1	660.1	658.6	659.2
180°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6



TEST NUMBER: P934803

CATALOG NUMBER: SQ4-FA-075U-075D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1495.5	1502.7	1507.0	1512.7	1527.0
5°	1438.2	1465.4	1474.0	1495.5	1521.3
7.5°	1312.2	1395.3	1418.2	1469.7	1509.9
10°	1190.4	1273.5	1313.6	1435.4	1495.5
12.5°	1128.8	1177.5	1204.7	1375.2	1475.5
15°	1090.1	1124.5	1144.6	1295.0	1452.6
17.5°	1060.0	1084.4	1098.7	1216.2	1421.0
20°	1041.4	1052.9	1065.8	1158.9	1385.2
22.5°	1028.5	1021.4	1031.4	1118.8	1336.5
25°	1019.9	992.7	1004.2	1087.3	1279.2
27.5°	1027.1	966.9	971.2	1058.6	1219.1
30°	1028.5	935.4	936.9	1028.5	1151.7
32.5°	1018.5	902.5	903.9	991.3	1075.8
35°	994.2	863.8	862.4	948.3	972.7
37.5°	961.2	822.3	822.3	901.0	859.5
40°	921.1	780.7	785.0	839.4	759.2
42.5°	872.4	736.3	742.0	757.8	684.7
45°	819.4	693.3	697.6	640.3	627.4
47.5°	760.7	648.9	650.4	531.5	608.8
50°	690.5	603.1	597.4	455.5	607.4
52.5°	628.9	552.9	535.8	412.6	551.5
55°	568.7	499.9	462.7	379.6	511.4
57.5°	515.7	431.2	395.4	340.9	502.8
60°	467.0	363.9	336.6	299.4	461.3
62.5°	426.9	313.7	308.0	270.7	418.3
65°	383.9	279.3	277.9	246.4	355.3
67.5°	342.4	256.4	255.0	223.5	270.7
70°	298.0	232.1	229.2	199.1	200.5
72.5°	252.1	204.8	202.0	179.1	166.2
75°	206.3	173.3	171.9	156.1	134.7
77.5°	161.9	137.5	140.4	126.1	98.8
80°	116.0	100.3	103.1	90.2	74.5
82.5°	77.4	65.9	68.8	57.3	50.1
85°	43.0	37.2	38.7	30.1	22.9
87.5°	20.1	17.2	17.2	11.5	7.2
90°	19.5	12.4	11.6	7.9	4.4
92.5°	120.4	85.7	78.1	47.9	17.8
95°	296.4	166.9	153.1	97.9	42.6
97.5°	399.4	183.4	171.1	122.4	73.7
100°	436.8	197.2	186.1	141.9	97.7
102.5°	454.0	211.0	200.6	159.4	118.1
105°	466.7	231.4	222.7	187.8	152.8
107.5°	469.1	261.6	253.5	220.9	188.3
110°	465.5	278.4	271.0	241.7	212.3



TEST NUMBER: P934803

CATALOG NUMBER: SQ4-FA-075U-075D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	465.7	298.8	291.8	263.8	235.8
115°	470.0	329.5	323.0	297.2	271.3
117.5°	478.7	359.3	353.3	329.9	306.4
120°	485.8	376.6	371.0	349.0	326.8
122.5°	496.0	397.0	391.5	369.1	346.9
125°	509.8	423.2	418.1	397.8	377.4
127.5°	523.5	448.5	443.3	422.9	402.3
130°	533.7	465.4	459.8	437.8	415.6
132.5°	541.8	479.1	473.6	451.5	429.4
135°	550.7	495.2	490.1	470.0	449.8
137.5°	563.9	515.5	510.5	490.6	470.7
140°	572.1	529.4	524.8	506.3	488.0
142.5°	578.9	539.6	535.4	518.4	501.4
145°	587.8	555.0	551.3	536.6	521.8
147.5°	600.8	574.6	571.0	556.6	542.2
150°	607.7	584.8	581.6	568.5	555.5
152.5°	612.1	591.5	589.0	579.2	569.3
155°	621.8	606.1	604.3	597.0	589.7
157.5°	631.6	620.8	619.0	612.0	604.8
160°	636.0	627.4	626.1	620.6	615.0
162.5°	640.8	634.6	633.5	629.4	625.2
165°	647.6	644.8	643.9	640.1	636.3
167.5°	652.9	650.5	650.1	648.3	646.5
170°	657.3	657.2	656.8	655.0	653.2
172.5°	657.6	657.6	657.5	657.1	656.8
175°	660.3	661.6	661.6	661.6	661.6
177.5°	660.6	661.6	661.6	661.6	661.6
180°	661.6	661.6	661.6	661.6	661.6



TEST NUMBER: P934803
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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	12.37	13.21	13.34	14.20	15.50	15.19	16.03	16.17	17.02	18.33
	3H	12.84	13.60	13.83	14.60	15.92	16.54	17.29	17.52	18.29	19.61
	4H	13.03	13.75	14.03	14.75	16.08	16.98	17.69	17.98	18.69	20.03
	6H	13.15	13.81	14.16	14.82	16.16	17.26	17.92	18.27	18.92	20.27
	8H	13.15	13.78	14.17	14.80	16.14	17.33	17.96	18.35	18.98	20.32
	12H	13.12	13.72	14.15	14.74	16.10	17.37	17.97	18.39	18.98	20.35
4H	2H	13.40	14.11	14.40	15.11	16.45	15.60	16.31	16.61	17.32	18.65
	3H	14.42	15.02	15.44	16.05	17.39	17.10	17.70	18.12	18.73	20.07
	4H	14.70	15.24	15.72	16.27	17.63	17.63	18.17	18.65	19.20	20.56
	6H	14.82	15.29	15.86	16.34	17.70	17.99	18.46	19.03	19.51	20.87
	8H	14.83	15.26	15.86	16.30	17.68	18.10	18.53	19.13	19.57	20.95
	12H	14.79	15.19	15.85	16.24	17.63	18.15	18.55	19.21	19.60	20.99
8H	4H	15.15	15.59	16.18	16.63	18.01	17.75	18.19	18.79	19.23	20.61
	6H	15.41	15.77	16.47	16.85	18.23	18.19	18.55	19.24	19.63	21.01
	8H	15.45	15.77	16.52	16.84	18.23	18.34	18.65	19.40	19.72	21.12
	12H	15.44	15.72	16.51	16.78	18.21	18.43	18.71	19.50	19.77	21.21
12H	4H	15.15	15.55	16.21	16.60	17.99	17.72	18.11	18.77	19.16	20.55
	6H	15.47	15.79	16.54	16.85	18.25	18.18	18.50	19.25	19.57	20.96
	8H	15.54	15.82	16.61	16.88	18.32	18.34	18.62	19.41	19.68	21.12