

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: P935002

Luminaire Tested: SQ4-FA-075U-125D-B40-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935002
REPORT IS A COMBINATION OF REPORTS P933718 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-125D-B40-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

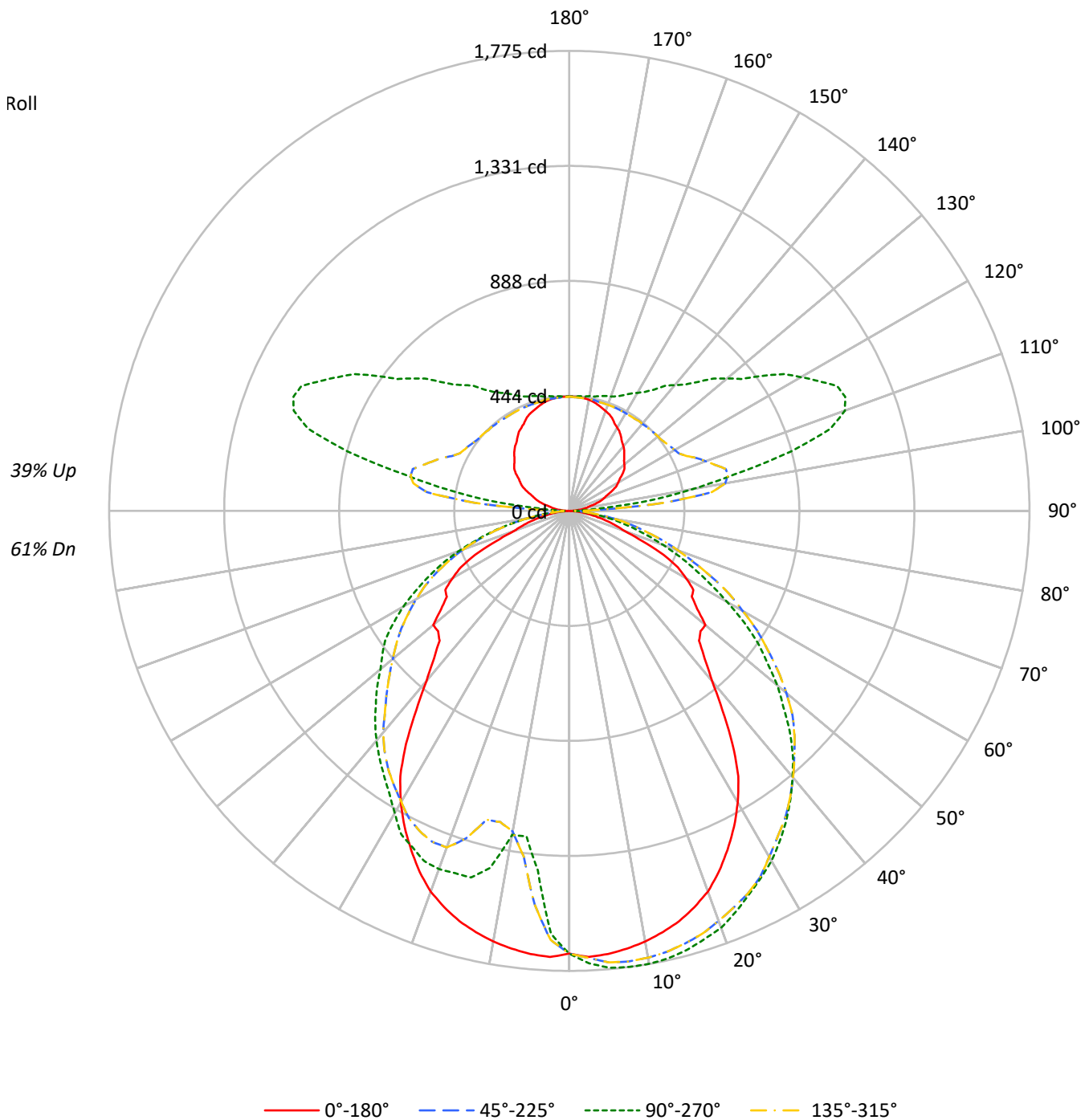
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7290.5 lumens
Efficiency: N/A
Efficacy: 117.6 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: Semi-Direct

Input Watts (W): 62
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





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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	56	56	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	47	47	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	40	40	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	35	35	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	30	30	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	26	26	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	23	23	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	21	21	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	19	19	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15852	15852	15852	15852
5°	15952	16001	15952	12582
10°	15829	15763	15829	11269
15°	15638	15421	15638	12876
20°	15294	15017	15294	12903
25°	14606	14426	14606	12630
30°	13725	13936	13725	12030
35°	12217	13317	12217	11370
40°	10162	12587	10162	10872
45°	9062	11733	9062	10299
50°	9605	10715	9605	9723
55°	9013	9618	9013	9390
60°	9257	8169	9257	8600
65°	8352	6753	8352	7548
70°	5743	5382	5743	6326
75°	4981	3977	4981	4764
80°	3931	2629	3931	2862
85°	2145	1394	2145	1183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13917 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	2.1
10°-20°	437.8	6.0
20°-30°	676.8	9.3
30°-40°	807.9	11.1
40°-50°	812.7	11.1
50°-60°	707.1	9.7
60°-70°	501.4	6.9
70°-80°	265.3	3.6
80°-90°	67.7	0.9
90°-100°	215.0	2.9
100°-110°	565.3	7.8
110°-120°	586.1	8.0
120°-130°	470.2	6.4
130°-140°	368.9	5.1
140°-150°	283.1	3.9
150°-160°	203.9	2.8
160°-170°	124.8	1.7
170°-180°	42.2	0.6
0°-30°	1268.8	17.4
0°-40°	2076.8	28.5
0°-60°	3596.6	49.3
0°-90°	4431.0	60.8
90°-120°	1366.5	18.7
90°-150°	2488.7	34.1
90°-180°	2860.0	39.2
0°-180°	7290.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1708	1708	1708	1708	1708	
5°	1716	1770	1716	1392	1716	163
15°	1639	1754	1639	1464	1639	461
25°	1443	1636	1443	1432	1443	663
35°	1097	1459	1097	1246	1097	679
45°	708	1202	708	1055	708	567
55°	577	887	577	866	577	530
65°	401	535	401	598	401	383
75°	152	254	152	304	152	160
85°	26	65	26	55	26	35
90°	3	11	3	11	3	4
95°	28	130	28	130	28	32
105°	102	885	102	885	102	108
115°	181	1140	181	1140	181	179
125°	252	908	252	908	252	223
135°	300	704	300	704	300	232
145°	348	571	348	571	348	218
155°	393	492	393	492	393	181
165°	424	458	424	458	424	120
175°	441	444	441	444	441	42
180°	441	441	441	441	441	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1722.8	1722.8	1732.6	1735.8	1735.8	1730.9	1726.1	1730.9	1745.5	1750.3	1748.7
5°	1716.3	1729.3	1747.1	1750.3	1753.6	1751.9	1748.7	1751.9	1768.1	1771.3	1773.0
7.5°	1703.4	1727.7	1750.3	1755.2	1760.0	1755.2	1753.6	1756.8	1773.0	1776.2	1776.2
10°	1687.3	1721.2	1747.1	1750.3	1755.2	1750.3	1750.3	1756.8	1773.0	1776.2	1777.8
12.5°	1664.7	1711.6	1735.8	1739.0	1745.5	1743.8	1742.2	1748.7	1764.8	1768.1	1768.1
15°	1638.8	1693.8	1716.3	1719.6	1730.9	1727.7	1727.7	1734.2	1751.9	1756.8	1755.2
17.5°	1603.3	1671.2	1696.9	1701.8	1709.9	1708.3	1709.9	1716.3	1732.6	1735.8	1737.3
20°	1562.9	1640.4	1671.2	1675.9	1684.0	1684.0	1684.0	1692.2	1708.3	1714.8	1714.8
22.5°	1507.8	1608.1	1640.4	1643.7	1653.3	1653.3	1656.5	1667.9	1682.4	1684.0	1684.0
25°	1443.2	1572.5	1600.0	1609.7	1619.4	1624.3	1629.1	1635.5	1640.4	1638.8	1640.4
27.5°	1375.4	1527.2	1562.9	1569.3	1582.2	1587.1	1593.5	1595.1	1596.8	1601.6	1598.4
30°	1299.4	1464.2	1517.6	1524.1	1545.1	1548.2	1541.8	1545.1	1553.1	1556.4	1559.6
32.5°	1213.7	1370.5	1470.7	1485.2	1504.7	1495.0	1493.3	1498.2	1511.1	1511.1	1514.3
35°	1097.4	1297.7	1427.1	1440.0	1454.6	1443.2	1449.7	1451.3	1459.4	1464.2	1462.7
37.5°	969.7	1234.7	1381.8	1391.5	1402.8	1388.3	1398.0	1402.8	1409.3	1406.0	1406.0
40°	856.5	1136.2	1328.5	1335.0	1344.6	1333.4	1343.0	1346.3	1349.5	1346.3	1344.6
42.5°	772.5	1027.9	1272.0	1280.0	1273.5	1281.6	1284.9	1291.4	1286.5	1280.0	1280.0
45°	707.8	998.8	1210.5	1220.2	1210.5	1223.5	1228.3	1228.3	1213.7	1210.5	1208.9
47.5°	686.8	940.6	1149.1	1149.1	1144.3	1160.4	1168.4	1157.2	1142.7	1137.8	1137.8
50°	685.2	875.9	1065.0	1058.6	1081.3	1100.6	1092.5	1081.3	1069.9	1052.1	1052.1
52.5°	622.2	796.8	956.8	981.0	1016.6	1027.9	1015.0	1003.6	984.2	976.2	969.7
55°	577.0	714.3	858.2	906.7	943.8	958.3	934.2	922.8	893.8	888.9	885.7
57.5°	567.3	594.8	767.7	829.1	874.3	872.8	858.2	837.2	812.9	808.1	806.5
60°	520.4	429.9	670.7	743.5	790.3	785.5	772.5	753.1	730.5	727.2	724.1
62.5°	472.0	311.9	560.8	643.2	709.5	707.8	696.6	667.4	651.3	643.2	636.8
65°	400.8	261.9	399.2	535.0	630.3	633.5	609.3	588.3	570.5	560.8	559.2
67.5°	305.4	213.3	269.9	446.1	554.4	551.1	520.4	510.7	488.1	483.2	473.6
70°	226.2	142.2	187.5	362.0	480.0	472.0	447.7	436.3	415.3	404.1	397.6
72.5°	187.5	114.8	137.3	281.2	404.1	394.3	373.3	360.4	342.7	332.9	326.4
75°	151.9	121.2	105.0	208.5	328.0	321.6	302.3	289.3	274.8	261.9	263.4
77.5°	111.5	113.2	84.0	153.6	260.2	250.5	239.2	223.0	216.6	203.6	203.6
80°	84.0	88.9	63.0	105.0	187.5	187.5	177.8	166.5	155.2	148.7	148.7
82.5°	56.5	56.5	46.9	66.3	127.7	122.8	116.3	113.2	106.7	103.4	103.4
85°	25.9	32.3	29.1	40.4	69.5	72.8	72.8	69.5	67.9	64.7	66.3
87.5°	8.1	14.5	17.8	22.6	35.5	37.1	38.8	38.8	38.8	40.4	40.4
90°	3.0	5.3	7.7	8.3	13.1	19.4	22.5	20.1	15.0	11.3	11.3
92.5°	11.8	32.0	52.0	57.1	80.3	111.3	126.7	111.1	79.7	56.2	54.1
95°	28.5	65.3	102.2	111.4	197.7	312.8	370.3	330.4	250.7	190.9	184.1
97.5°	49.2	81.7	114.1	122.2	266.3	458.2	554.2	529.0	478.6	440.8	427.9
100°	65.1	94.5	124.1	131.4	291.2	504.2	610.7	612.5	616.3	619.0	603.7
102.5°	78.8	106.3	133.7	140.6	302.6	518.8	626.8	658.9	723.0	771.2	758.0
105°	101.8	125.1	148.4	154.2	311.1	520.4	625.0	697.0	840.9	948.8	941.7
107.5°	125.5	147.3	168.9	174.4	312.8	497.2	589.4	689.8	890.5	1041.1	1042.9
110°	141.5	161.1	180.8	185.7	310.4	476.6	559.8	672.0	896.5	1064.8	1072.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.2	175.9	194.5	199.2	310.5	458.8	532.9	647.8	877.5	1049.7	1061.1
115°	180.9	198.1	215.4	219.6	313.3	438.2	500.6	611.3	832.6	998.5	1014.2
117.5°	204.3	219.9	235.6	239.5	319.2	425.3	478.4	578.3	777.9	927.8	945.2
120°	217.9	232.6	247.3	251.1	323.8	421.0	469.5	560.8	743.3	880.1	897.0
122.5°	231.2	246.1	260.9	264.6	330.6	418.7	462.7	544.8	709.2	832.5	849.2
125°	251.6	265.2	278.8	282.1	339.9	416.9	455.3	525.2	664.8	769.4	784.8
127.5°	268.3	281.9	295.6	299.0	349.1	415.8	449.1	509.1	629.0	718.8	731.8
130°	277.1	291.8	306.6	310.3	355.7	416.4	446.7	500.1	606.8	686.8	698.8
132.5°	286.3	301.0	315.7	319.4	361.2	416.9	444.6	492.4	588.0	659.6	670.3
135°	299.9	313.2	326.7	330.0	367.1	416.5	441.1	481.1	561.2	621.1	630.4
137.5°	313.8	327.1	340.4	343.7	376.0	419.1	440.5	474.3	542.0	592.7	600.2
140°	325.4	337.6	349.8	352.9	381.4	419.4	438.4	467.7	526.0	569.8	576.9
142.5°	334.2	345.5	356.8	359.7	385.9	421.0	438.4	464.1	515.4	553.9	560.0
145°	347.8	357.7	367.6	370.1	391.8	421.0	435.5	456.5	498.4	529.9	534.5
147.5°	361.5	371.0	380.7	383.1	400.5	423.8	435.5	452.0	485.0	509.8	513.6
150°	370.3	379.0	387.7	389.9	405.1	425.4	435.5	449.4	477.3	498.2	501.3
152.5°	379.5	386.1	392.7	394.3	408.1	426.3	435.5	447.4	471.2	489.1	491.3
155°	393.2	398.0	402.8	404.1	414.6	428.5	435.5	444.9	463.8	478.1	479.6
157.5°	403.2	408.0	412.8	413.9	421.1	430.7	435.5	442.8	457.5	468.6	469.7
160°	410.0	413.7	417.3	418.3	424.0	431.7	435.5	441.8	454.5	463.9	464.5
162.5°	416.9	419.6	422.4	423.1	427.2	432.7	435.5	440.8	451.4	459.5	460.0
165°	424.2	426.7	429.2	429.8	431.8	434.2	435.5	439.3	446.9	452.7	453.3
167.5°	431.0	432.1	433.4	433.7	435.3	437.4	438.4	440.9	446.0	449.7	450.0
170°	435.5	436.6	437.9	438.2	438.2	438.3	438.4	440.9	446.0	449.7	449.7
172.5°	437.9	438.2	438.3	438.4	438.4	438.4	438.4	440.4	444.4	447.3	447.1
175°	441.1	441.1	441.1	441.1	440.3	439.0	438.4	439.7	442.2	444.1	444.1
177.5°	441.1	441.1	441.1	441.1	440.4	439.5	439.0	440.0	442.0	443.5	443.2
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1751.9	1747.1	1751.9	1748.7	1750.3	1745.5	1730.9	1726.1	1730.9	1735.8	1735.8
5°	1773.0	1769.7	1773.0	1773.0	1771.3	1768.1	1751.9	1748.7	1751.9	1753.6	1750.3
7.5°	1779.4	1774.6	1779.4	1776.2	1776.2	1773.0	1756.8	1753.6	1755.2	1760.0	1755.2
10°	1779.4	1774.6	1779.4	1777.8	1776.2	1773.0	1756.8	1750.3	1750.3	1755.2	1750.3
12.5°	1771.3	1768.1	1771.3	1768.1	1768.1	1764.8	1748.7	1742.2	1743.8	1745.5	1739.0
15°	1758.3	1753.6	1758.3	1755.2	1756.8	1751.9	1734.2	1727.7	1727.7	1730.9	1719.6
17.5°	1739.0	1732.6	1739.0	1737.3	1735.8	1732.6	1716.3	1709.9	1708.3	1709.9	1701.8
20°	1716.3	1711.6	1716.3	1714.8	1714.8	1708.3	1692.2	1684.0	1684.0	1684.0	1675.9
22.5°	1680.8	1675.9	1680.8	1684.0	1684.0	1682.4	1667.9	1656.5	1653.3	1653.3	1643.7
25°	1640.4	1635.5	1640.4	1640.4	1638.8	1640.4	1635.5	1629.1	1624.3	1619.4	1609.7
27.5°	1601.6	1598.4	1601.6	1598.4	1601.6	1596.8	1595.1	1593.5	1587.1	1582.2	1569.3
30°	1562.9	1559.6	1562.9	1559.6	1556.4	1553.1	1545.1	1541.8	1548.2	1545.1	1524.1
32.5°	1514.3	1511.1	1514.3	1514.3	1511.1	1511.1	1498.2	1493.3	1495.0	1504.7	1485.2
35°	1464.2	1459.4	1464.2	1462.7	1464.2	1459.4	1451.3	1449.7	1443.2	1454.6	1440.0
37.5°	1406.0	1401.2	1406.0	1406.0	1406.0	1409.3	1402.8	1398.0	1388.3	1402.8	1391.5
40°	1346.3	1339.8	1346.3	1344.6	1346.3	1349.5	1346.3	1343.0	1333.4	1344.6	1335.0
42.5°	1278.4	1276.7	1278.4	1280.0	1280.0	1286.5	1291.4	1284.9	1281.6	1273.5	1280.0
45°	1205.7	1202.4	1205.7	1208.9	1210.5	1213.7	1228.3	1228.3	1223.5	1210.5	1220.2
47.5°	1128.0	1120.0	1128.0	1137.8	1137.8	1142.7	1157.2	1168.4	1160.4	1144.3	1149.1
50°	1045.6	1047.3	1045.6	1052.1	1052.1	1069.9	1081.3	1092.5	1100.6	1081.3	1058.6
52.5°	964.8	963.2	964.8	969.7	976.2	984.2	1003.6	1015.0	1027.9	1016.6	981.0
55°	884.0	887.3	884.0	885.7	888.9	893.8	922.8	934.2	958.3	943.8	906.7
57.5°	803.3	798.4	803.3	806.5	808.1	812.9	837.2	858.2	872.8	874.3	829.1
60°	709.5	703.1	709.5	724.1	727.2	730.5	753.1	772.5	785.5	790.3	743.5
62.5°	627.1	615.8	627.1	636.8	643.2	651.3	667.4	696.6	707.8	709.5	643.2
65°	539.8	535.0	539.8	559.2	560.8	570.5	588.3	609.3	633.5	630.3	535.0
67.5°	460.6	460.6	460.6	473.6	483.2	488.1	510.7	520.4	551.1	554.4	446.1
70°	387.9	386.3	387.9	397.6	404.1	415.3	436.3	447.7	472.0	480.0	362.0
72.5°	318.4	316.8	318.4	326.4	332.9	342.7	360.4	373.3	394.3	404.1	281.2
75°	257.0	253.7	257.0	263.4	261.9	274.8	289.3	302.3	321.6	328.0	208.5
77.5°	197.2	197.2	197.2	203.6	203.6	216.6	223.0	239.2	250.5	260.2	153.6
80°	147.1	145.4	147.1	148.7	148.7	155.2	166.5	177.8	187.5	187.5	105.0
82.5°	103.4	100.2	103.4	103.4	103.4	106.7	113.2	116.3	122.8	127.7	66.3
85°	64.7	64.7	64.7	66.3	64.7	67.9	69.5	72.8	72.8	69.5	40.4
87.5°	42.0	40.4	42.0	40.4	40.4	38.8	38.8	38.8	37.1	35.5	22.6
90°	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.5	19.4	13.1	8.3
92.5°	45.1	36.1	45.1	54.1	56.2	79.7	111.1	126.7	111.3	80.3	57.1
95°	157.1	130.0	157.1	184.1	190.9	250.7	330.4	370.3	312.8	197.7	111.4
97.5°	376.4	324.8	376.4	427.9	440.8	478.6	529.0	554.2	458.2	266.3	122.2
100°	542.2	480.7	542.2	603.7	619.0	616.3	612.5	610.7	504.2	291.2	131.4
102.5°	705.4	652.7	705.4	758.0	771.2	723.0	658.9	626.8	518.8	302.6	140.6
105°	913.5	885.2	913.5	941.7	948.8	840.9	697.0	625.0	520.4	311.1	154.2
107.5°	1049.7	1056.6	1049.7	1042.9	1041.1	890.5	689.8	589.4	497.2	312.8	174.4
110°	1101.7	1131.2	1101.7	1072.2	1064.8	896.5	672.0	559.8	476.6	310.4	185.7



TEST NUMBER: P935002

CATALOG NUMBER: SQ4-FA-075U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1106.4	1151.6	1106.4	1061.1	1049.7	877.5	647.8	532.9	458.8	310.5	199.2
115°	1077.0	1139.8	1077.0	1014.2	998.5	832.6	611.3	500.6	438.2	313.3	219.6
117.5°	1014.8	1084.4	1014.8	945.2	927.8	777.9	578.3	478.4	425.3	319.2	239.5
120°	964.6	1032.3	964.6	897.0	880.1	743.3	560.8	469.5	421.0	323.8	251.1
122.5°	915.8	982.6	915.8	849.2	832.5	709.2	544.8	462.7	418.7	330.6	264.6
125°	846.2	907.6	846.2	784.8	769.4	664.8	525.2	455.3	416.9	339.9	282.1
127.5°	783.6	835.4	783.6	731.8	718.8	629.0	509.1	449.1	415.8	349.1	299.0
130°	746.7	794.6	746.7	698.8	686.8	606.8	500.1	446.7	416.4	355.7	310.3
132.5°	713.2	756.1	713.2	670.3	659.6	588.0	492.4	444.6	416.9	361.2	319.4
135°	667.4	704.3	667.4	630.4	621.1	561.2	481.1	441.1	416.5	367.1	330.0
137.5°	630.5	660.8	630.5	600.2	592.7	542.0	474.3	440.5	419.1	376.0	343.7
140°	605.3	633.5	605.3	576.9	569.8	526.0	467.7	438.4	419.4	381.4	352.9
142.5°	584.3	608.6	584.3	560.0	553.9	515.4	464.1	438.4	421.0	385.9	359.7
145°	552.9	571.4	552.9	534.5	529.9	498.4	456.5	435.5	421.0	391.8	370.1
147.5°	528.9	544.2	528.9	513.6	509.8	485.0	452.0	435.5	423.8	400.5	383.1
150°	513.7	526.1	513.7	501.3	498.2	477.3	449.4	435.5	425.4	405.1	389.9
152.5°	500.7	510.1	500.7	491.3	489.1	471.2	447.4	435.5	426.3	408.1	394.3
155°	485.8	492.0	485.8	479.6	478.1	463.8	444.9	435.5	428.5	414.6	404.1
157.5°	474.1	478.4	474.1	469.7	468.6	457.5	442.8	435.5	430.7	421.1	413.9
160°	467.0	469.5	467.0	464.5	463.9	454.5	441.8	435.5	431.7	424.0	418.3
162.5°	462.4	464.8	462.4	460.0	459.5	451.4	440.8	435.5	432.7	427.2	423.1
165°	455.8	458.3	455.8	453.3	452.7	446.9	439.3	435.5	434.2	431.8	429.8
167.5°	451.0	452.1	451.0	450.0	449.7	446.0	440.9	438.4	437.4	435.3	433.7
170°	449.7	449.7	449.7	449.7	449.7	446.0	440.9	438.4	438.3	438.2	438.2
172.5°	446.2	445.2	446.2	447.1	447.3	444.4	440.4	438.4	438.4	438.4	438.4
175°	444.1	444.1	444.1	444.1	444.1	442.2	439.7	438.4	439.0	440.3	441.1
177.5°	442.2	441.1	442.2	443.2	443.5	442.0	440.0	439.0	439.5	440.4	441.1
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



TEST NUMBER: P935002

CATALOG NUMBER: SQ4-FA-075U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1732.6	1722.8	1722.8	1706.7	1700.2	1695.3	1687.3	1663.0	1656.5	1650.1	1659.8
5°	1747.1	1729.3	1716.3	1687.3	1663.0	1653.3	1622.6	1564.5	1525.7	1496.6	1480.4
7.5°	1750.3	1727.7	1703.4	1658.2	1600.0	1574.1	1480.4	1373.8	1344.6	1318.8	1302.6
10°	1747.1	1721.2	1687.3	1619.4	1482.1	1436.8	1343.0	1273.5	1255.7	1251.0	1255.7
12.5°	1735.8	1711.6	1664.7	1551.5	1359.2	1328.5	1273.5	1233.1	1229.9	1238.0	1281.6
15°	1716.3	1693.8	1638.8	1461.1	1291.4	1268.7	1229.9	1215.3	1233.1	1289.7	1420.7
17.5°	1696.9	1671.2	1603.3	1372.1	1239.6	1223.5	1195.9	1225.1	1325.3	1401.2	1444.8
20°	1671.2	1640.4	1562.9	1307.5	1202.4	1187.9	1174.9	1305.9	1381.8	1409.3	1433.6
22.5°	1640.4	1608.1	1507.8	1262.2	1163.7	1152.3	1160.4	1351.1	1381.8	1401.2	1422.2
25°	1600.0	1572.5	1443.2	1226.7	1132.9	1120.0	1150.7	1346.3	1364.0	1368.9	1410.9
27.5°	1562.9	1527.2	1375.4	1194.3	1095.8	1090.9	1158.8	1325.3	1338.1	1343.0	1388.3
30°	1517.6	1464.2	1299.4	1160.4	1057.0	1055.4	1160.4	1299.4	1296.1	1309.1	1354.4
32.5°	1470.7	1370.5	1213.7	1118.4	1019.8	1018.2	1149.1	1260.6	1257.4	1275.1	1309.1
35°	1427.1	1297.7	1097.4	1069.9	973.0	974.6	1121.6	1215.3	1217.0	1233.1	1254.1
37.5°	1381.8	1234.7	969.7	1016.6	927.7	927.7	1084.4	1173.3	1170.1	1174.9	1204.1
40°	1328.5	1136.2	856.5	947.1	885.7	880.8	1039.2	1128.0	1116.8	1115.2	1155.6
42.5°	1272.0	1027.9	772.5	854.9	837.2	830.8	984.2	1073.1	1052.1	1057.0	1108.7
45°	1210.5	998.8	707.8	722.5	787.1	782.2	924.4	1010.1	995.6	1008.5	1061.9
47.5°	1149.1	940.6	686.8	599.6	733.7	732.1	858.2	948.7	940.6	953.6	1010.1
50°	1065.0	875.9	685.2	514.0	673.9	680.4	779.0	888.9	888.9	900.2	960.0
52.5°	956.8	796.8	622.2	465.5	604.4	623.8	709.5	837.2	840.4	851.8	905.1
55°	858.2	714.3	577.0	428.3	522.0	564.0	641.7	783.9	790.3	801.6	850.1
57.5°	767.7	594.8	567.3	384.7	446.1	486.5	581.8	732.1	735.4	745.1	791.9
60°	670.7	429.9	520.4	337.8	379.8	410.5	526.9	670.7	682.1	688.5	728.9
62.5°	560.8	311.9	472.0	305.4	347.4	353.9	481.6	612.5	627.1	631.9	656.2
65°	399.2	261.9	400.8	278.0	313.5	315.2	433.1	552.8	565.6	573.8	591.5
67.5°	269.9	213.3	305.4	252.1	287.6	289.3	386.3	483.2	501.0	507.5	518.8
70°	187.5	142.2	226.2	224.6	258.6	261.9	336.2	420.2	436.3	441.2	447.7
72.5°	137.3	114.8	187.5	202.0	227.9	231.1	284.4	349.1	365.3	370.1	373.3
75°	105.0	121.2	151.9	176.2	194.0	195.6	232.7	284.4	295.8	299.0	300.6
77.5°	84.0	113.2	111.5	142.2	158.3	155.2	182.6	219.8	229.5	229.5	229.5
80°	63.0	88.9	84.0	101.8	116.3	113.2	130.9	156.8	160.0	163.2	161.6
82.5°	46.9	56.5	56.5	64.7	77.5	74.3	87.3	101.8	101.8	101.8	105.0
85°	29.1	32.3	25.9	33.9	43.6	42.0	48.5	54.9	56.5	56.5	53.3
87.5°	17.8	14.5	8.1	12.9	19.4	19.4	22.6	24.3	22.6	22.6	22.6
90°	7.7	5.3	3.0	5.3	7.7	8.3	13.1	19.4	22.5	20.1	15.0
92.5°	52.0	32.0	11.8	32.0	52.0	57.1	80.3	111.3	126.7	111.1	79.7
95°	102.2	65.3	28.5	65.3	102.2	111.4	197.7	312.8	370.3	330.4	250.7
97.5°	114.1	81.7	49.2	81.7	114.1	122.2	266.3	458.2	554.2	529.0	478.6
100°	124.1	94.5	65.1	94.5	124.1	131.4	291.2	504.2	610.7	612.5	616.3
102.5°	133.7	106.3	78.8	106.3	133.7	140.6	302.6	518.8	626.8	658.9	723.0
105°	148.4	125.1	101.8	125.1	148.4	154.2	311.1	520.4	625.0	697.0	840.9
107.5°	168.9	147.3	125.5	147.3	168.9	174.4	312.8	497.2	589.4	689.8	890.5
110°	180.8	161.1	141.5	161.1	180.8	185.7	310.4	476.6	559.8	672.0	896.5



TEST NUMBER: P935002

CATALOG NUMBER: SQ4-FA-075U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.5	175.9	157.2	175.9	194.5	199.2	310.5	458.8	532.9	647.8	877.5
115°	215.4	198.1	180.9	198.1	215.4	219.6	313.3	438.2	500.6	611.3	832.6
117.5°	235.6	219.9	204.3	219.9	235.6	239.5	319.2	425.3	478.4	578.3	777.9
120°	247.3	232.6	217.9	232.6	247.3	251.1	323.8	421.0	469.5	560.8	743.3
122.5°	260.9	246.1	231.2	246.1	260.9	264.6	330.6	418.7	462.7	544.8	709.2
125°	278.8	265.2	251.6	265.2	278.8	282.1	339.9	416.9	455.3	525.2	664.8
127.5°	295.6	281.9	268.3	281.9	295.6	299.0	349.1	415.8	449.1	509.1	629.0
130°	306.6	291.8	277.1	291.8	306.6	310.3	355.7	416.4	446.7	500.1	606.8
132.5°	315.7	301.0	286.3	301.0	315.7	319.4	361.2	416.9	444.6	492.4	588.0
135°	326.7	313.2	299.9	313.2	326.7	330.0	367.1	416.5	441.1	481.1	561.2
137.5°	340.4	327.1	313.8	327.1	340.4	343.7	376.0	419.1	440.5	474.3	542.0
140°	349.8	337.6	325.4	337.6	349.8	352.9	381.4	419.4	438.4	467.7	526.0
142.5°	356.8	345.5	334.2	345.5	356.8	359.7	385.9	421.0	438.4	464.1	515.4
145°	367.6	357.7	347.8	357.7	367.6	370.1	391.8	421.0	435.5	456.5	498.4
147.5°	380.7	371.0	361.5	371.0	380.7	383.1	400.5	423.8	435.5	452.0	485.0
150°	387.7	379.0	370.3	379.0	387.7	389.9	405.1	425.4	435.5	449.4	477.3
152.5°	392.7	386.1	379.5	386.1	392.7	394.3	408.1	426.3	435.5	447.4	471.2
155°	402.8	398.0	393.2	398.0	402.8	404.1	414.6	428.5	435.5	444.9	463.8
157.5°	412.8	408.0	403.2	408.0	412.8	413.9	421.1	430.7	435.5	442.8	457.5
160°	417.3	413.7	410.0	413.7	417.3	418.3	424.0	431.7	435.5	441.8	454.5
162.5°	422.4	419.6	416.9	419.6	422.4	423.1	427.2	432.7	435.5	440.8	451.4
165°	429.2	426.7	424.2	426.7	429.2	429.8	431.8	434.2	435.5	439.3	446.9
167.5°	433.4	432.1	431.0	432.1	433.4	433.7	435.3	437.4	438.4	440.9	446.0
170°	437.9	436.6	435.5	436.6	437.9	438.2	438.2	438.3	438.4	440.9	446.0
172.5°	438.3	438.2	437.9	438.2	438.3	438.4	438.4	438.4	438.4	440.4	444.4
175°	441.1	441.1	441.1	441.1	441.1	441.1	440.3	439.0	438.4	439.7	442.2
177.5°	441.1	441.1	441.1	441.1	441.1	441.1	440.4	439.5	439.0	440.0	442.0
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



TEST NUMBER: P935002
 CATALOG NUMBER: SQ4-FA-075U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1648.5	1643.7	1650.1	1632.3	1650.1	1643.7	1648.5	1659.8	1650.1	1656.5	1663.0
5°	1446.4	1438.4	1412.5	1391.5	1412.5	1438.4	1446.4	1480.4	1496.6	1525.7	1564.5
7.5°	1293.0	1286.5	1280.0	1267.1	1280.0	1286.5	1293.0	1302.6	1318.8	1344.6	1373.8
10°	1259.0	1260.6	1270.3	1268.7	1270.3	1260.6	1259.0	1255.7	1251.0	1255.7	1273.5
12.5°	1346.3	1360.8	1414.2	1410.9	1414.2	1360.8	1346.3	1281.6	1238.0	1229.9	1233.1
15°	1446.4	1451.3	1462.7	1464.2	1462.7	1451.3	1446.4	1420.7	1289.7	1233.1	1215.3
17.5°	1456.2	1457.8	1465.8	1465.8	1465.8	1457.8	1456.2	1444.8	1401.2	1325.3	1225.1
20°	1448.1	1451.3	1467.5	1470.7	1467.5	1451.3	1448.1	1433.6	1409.3	1381.8	1305.9
22.5°	1444.8	1451.3	1464.2	1462.7	1464.2	1451.3	1444.8	1422.2	1401.2	1381.8	1351.1
25°	1428.7	1428.7	1430.3	1431.9	1430.3	1428.7	1428.7	1410.9	1368.9	1364.0	1346.3
27.5°	1394.8	1398.0	1407.7	1406.0	1407.7	1398.0	1394.8	1388.3	1343.0	1338.1	1325.3
30°	1364.0	1360.8	1352.8	1346.3	1352.8	1360.8	1364.0	1354.4	1309.1	1296.1	1299.4
32.5°	1312.4	1304.2	1296.1	1291.4	1296.1	1304.2	1312.4	1309.1	1275.1	1257.4	1260.6
35°	1251.0	1252.5	1251.0	1246.1	1251.0	1252.5	1251.0	1254.1	1233.1	1217.0	1215.3
37.5°	1207.3	1210.5	1208.9	1202.4	1208.9	1210.5	1207.3	1204.1	1174.9	1170.1	1173.3
40°	1162.0	1163.7	1162.0	1157.2	1162.0	1163.7	1162.0	1155.6	1115.2	1116.8	1128.0
42.5°	1118.4	1116.8	1111.9	1108.7	1111.9	1116.8	1118.4	1108.7	1057.0	1052.1	1073.1
45°	1068.3	1069.9	1060.2	1055.4	1060.2	1069.9	1068.3	1061.9	1008.5	995.6	1010.1
47.5°	1018.2	1018.2	1010.1	1005.2	1010.1	1018.2	1018.2	1010.1	953.6	940.6	948.7
50°	964.8	963.2	951.9	950.3	951.9	963.2	964.8	960.0	900.2	888.9	888.9
52.5°	903.4	903.4	905.1	908.3	905.1	903.4	903.4	905.1	851.8	840.4	837.2
55°	850.1	851.8	863.0	866.3	863.0	851.8	850.1	850.1	801.6	790.3	783.9
57.5°	795.1	795.1	803.3	803.3	803.3	795.1	795.1	791.9	745.1	735.4	732.1
60°	732.1	735.4	741.8	740.2	741.8	735.4	732.1	728.9	688.5	682.1	670.7
62.5°	665.8	669.1	670.7	667.4	670.7	669.1	665.8	656.2	631.9	627.1	612.5
65°	596.4	599.6	601.2	598.0	601.2	599.6	596.4	591.5	573.8	565.6	552.8
67.5°	525.2	523.6	522.0	528.5	522.0	523.6	525.2	518.8	507.5	501.0	483.2
70°	452.5	452.5	451.0	454.1	451.0	452.5	452.5	447.7	441.2	436.3	420.2
72.5°	374.9	373.3	379.8	374.9	379.8	373.3	374.9	373.3	370.1	365.3	349.1
75°	299.0	302.3	299.0	303.9	299.0	302.3	299.0	300.6	299.0	295.8	284.4
77.5°	227.9	231.1	227.9	227.9	227.9	231.1	227.9	229.5	229.5	229.5	219.8
80°	161.6	160.0	160.0	158.3	160.0	160.0	161.6	161.6	163.2	160.0	156.8
82.5°	103.4	101.8	101.8	105.0	101.8	101.8	103.4	105.0	101.8	101.8	101.8
85°	56.5	58.2	54.9	54.9	54.9	58.2	56.5	53.3	56.5	56.5	54.9
87.5°	21.0	19.4	19.4	19.4	19.4	19.4	21.0	22.6	22.6	22.6	24.3
90°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.5	19.4
92.5°	56.2	54.1	45.1	36.1	45.1	54.1	56.2	79.7	111.1	126.7	111.3
95°	190.9	184.1	157.1	130.0	157.1	184.1	190.9	250.7	330.4	370.3	312.8
97.5°	440.8	427.9	376.4	324.8	376.4	427.9	440.8	478.6	529.0	554.2	458.2
100°	619.0	603.7	542.2	480.7	542.2	603.7	619.0	616.3	612.5	610.7	504.2
102.5°	771.2	758.0	705.4	652.7	705.4	758.0	771.2	723.0	658.9	626.8	518.8
105°	948.8	941.7	913.5	885.2	913.5	941.7	948.8	840.9	697.0	625.0	520.4
107.5°	1041.1	1042.9	1049.7	1056.6	1049.7	1042.9	1041.1	890.5	689.8	589.4	497.2
110°	1064.8	1072.2	1101.7	1131.2	1101.7	1072.2	1064.8	896.5	672.0	559.8	476.6



TEST NUMBER: P935002

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1049.7	1061.1	1106.4	1151.6	1106.4	1061.1	1049.7	877.5	647.8	532.9	458.8
115°	998.5	1014.2	1077.0	1139.8	1077.0	1014.2	998.5	832.6	611.3	500.6	438.2
117.5°	927.8	945.2	1014.8	1084.4	1014.8	945.2	927.8	777.9	578.3	478.4	425.3
120°	880.1	897.0	964.6	1032.3	964.6	897.0	880.1	743.3	560.8	469.5	421.0
122.5°	832.5	849.2	915.8	982.6	915.8	849.2	832.5	709.2	544.8	462.7	418.7
125°	769.4	784.8	846.2	907.6	846.2	784.8	769.4	664.8	525.2	455.3	416.9
127.5°	718.8	731.8	783.6	835.4	783.6	731.8	718.8	629.0	509.1	449.1	415.8
130°	686.8	698.8	746.7	794.6	746.7	698.8	686.8	606.8	500.1	446.7	416.4
132.5°	659.6	670.3	713.2	756.1	713.2	670.3	659.6	588.0	492.4	444.6	416.9
135°	621.1	630.4	667.4	704.3	667.4	630.4	621.1	561.2	481.1	441.1	416.5
137.5°	592.7	600.2	630.5	660.8	630.5	600.2	592.7	542.0	474.3	440.5	419.1
140°	569.8	576.9	605.3	633.5	605.3	576.9	569.8	526.0	467.7	438.4	419.4
142.5°	553.9	560.0	584.3	608.6	584.3	560.0	553.9	515.4	464.1	438.4	421.0
145°	529.9	534.5	552.9	571.4	552.9	534.5	529.9	498.4	456.5	435.5	421.0
147.5°	509.8	513.6	528.9	544.2	528.9	513.6	509.8	485.0	452.0	435.5	423.8
150°	498.2	501.3	513.7	526.1	513.7	501.3	498.2	477.3	449.4	435.5	425.4
152.5°	489.1	491.3	500.7	510.1	500.7	491.3	489.1	471.2	447.4	435.5	426.3
155°	478.1	479.6	485.8	492.0	485.8	479.6	478.1	463.8	444.9	435.5	428.5
157.5°	468.6	469.7	474.1	478.4	474.1	469.7	468.6	457.5	442.8	435.5	430.7
160°	463.9	464.5	467.0	469.5	467.0	464.5	463.9	454.5	441.8	435.5	431.7
162.5°	459.5	460.0	462.4	464.8	462.4	460.0	459.5	451.4	440.8	435.5	432.7
165°	452.7	453.3	455.8	458.3	455.8	453.3	452.7	446.9	439.3	435.5	434.2
167.5°	449.7	450.0	451.0	452.1	451.0	450.0	449.7	446.0	440.9	438.4	437.4
170°	449.7	449.7	449.7	449.7	449.7	449.7	449.7	446.0	440.9	438.4	438.3
172.5°	447.3	447.1	446.2	445.2	446.2	447.1	447.3	444.4	440.4	438.4	438.4
175°	444.1	444.1	444.1	444.1	444.1	444.1	444.1	442.2	439.7	438.4	439.0
177.5°	443.5	443.2	442.2	441.1	442.2	443.2	443.5	442.0	440.0	439.0	439.5
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



TEST NUMBER: P935002

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1687.3	1695.3	1700.2	1706.7	1722.8
5°	1622.6	1653.3	1663.0	1687.3	1716.3
7.5°	1480.4	1574.1	1600.0	1658.2	1703.4
10°	1343.0	1436.8	1482.1	1619.4	1687.3
12.5°	1273.5	1328.5	1359.2	1551.5	1664.7
15°	1229.9	1268.7	1291.4	1461.1	1638.8
17.5°	1195.9	1223.5	1239.6	1372.1	1603.3
20°	1174.9	1187.9	1202.4	1307.5	1562.9
22.5°	1160.4	1152.3	1163.7	1262.2	1507.8
25°	1150.7	1120.0	1132.9	1226.7	1443.2
27.5°	1158.8	1090.9	1095.8	1194.3	1375.4
30°	1160.4	1055.4	1057.0	1160.4	1299.4
32.5°	1149.1	1018.2	1019.8	1118.4	1213.7
35°	1121.6	974.6	973.0	1069.9	1097.4
37.5°	1084.4	927.7	927.7	1016.6	969.7
40°	1039.2	880.8	885.7	947.1	856.5
42.5°	984.2	830.8	837.2	854.9	772.5
45°	924.4	782.2	787.1	722.5	707.8
47.5°	858.2	732.1	733.7	599.6	686.8
50°	779.0	680.4	673.9	514.0	685.2
52.5°	709.5	623.8	604.4	465.5	622.2
55°	641.7	564.0	522.0	428.3	577.0
57.5°	581.8	486.5	446.1	384.7	567.3
60°	526.9	410.5	379.8	337.8	520.4
62.5°	481.6	353.9	347.4	305.4	472.0
65°	433.1	315.2	313.5	278.0	400.8
67.5°	386.3	289.3	287.6	252.1	305.4
70°	336.2	261.9	258.6	224.6	226.2
72.5°	284.4	231.1	227.9	202.0	187.5
75°	232.7	195.6	194.0	176.2	151.9
77.5°	182.6	155.2	158.3	142.2	111.5
80°	130.9	113.2	116.3	101.8	84.0
82.5°	87.3	74.3	77.5	64.7	56.5
85°	48.5	42.0	43.6	33.9	25.9
87.5°	22.6	19.4	19.4	12.9	8.1
90°	13.1	8.3	7.7	5.3	3.0
92.5°	80.3	57.1	52.0	32.0	11.8
95°	197.7	111.4	102.2	65.3	28.5
97.5°	266.3	122.2	114.1	81.7	49.2
100°	291.2	131.4	124.1	94.5	65.1
102.5°	302.6	140.6	133.7	106.3	78.8
105°	311.1	154.2	148.4	125.1	101.8
107.5°	312.8	174.4	168.9	147.3	125.5
110°	310.4	185.7	180.8	161.1	141.5



TEST NUMBER: P935002

CATALOG NUMBER: SQ4-FA-075U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.5	199.2	194.5	175.9	157.2
115°	313.3	219.6	215.4	198.1	180.9
117.5°	319.2	239.5	235.6	219.9	204.3
120°	323.8	251.1	247.3	232.6	217.9
122.5°	330.6	264.6	260.9	246.1	231.2
125°	339.9	282.1	278.8	265.2	251.6
127.5°	349.1	299.0	295.6	281.9	268.3
130°	355.7	310.3	306.6	291.8	277.1
132.5°	361.2	319.4	315.7	301.0	286.3
135°	367.1	330.0	326.7	313.2	299.9
137.5°	376.0	343.7	340.4	327.1	313.8
140°	381.4	352.9	349.8	337.6	325.4
142.5°	385.9	359.7	356.8	345.5	334.2
145°	391.8	370.1	367.6	357.7	347.8
147.5°	400.5	383.1	380.7	371.0	361.5
150°	405.1	389.9	387.7	379.0	370.3
152.5°	408.1	394.3	392.7	386.1	379.5
155°	414.6	404.1	402.8	398.0	393.2
157.5°	421.1	413.9	412.8	408.0	403.2
160°	424.0	418.3	417.3	413.7	410.0
162.5°	427.2	423.1	422.4	419.6	416.9
165°	431.8	429.8	429.2	426.7	424.2
167.5°	435.3	433.7	433.4	432.1	431.0
170°	438.2	438.2	437.9	436.6	435.5
172.5°	438.4	438.4	438.3	438.2	437.9
175°	440.3	441.1	441.1	441.1	441.1
177.5°	440.4	441.1	441.1	441.1	441.1
180°	441.1	441.1	441.1	441.1	441.1



TEST NUMBER: P935002
 CATALOG NUMBER: SQ4-FA-075U-125D-B40-1D-UNV-STD-W-4

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.33	16.30	16.19	17.18	18.29	18.13	19.10	18.99	19.98	21.09
	3H	15.82	16.69	16.69	17.58	18.71	19.47	20.34	20.35	21.23	22.37
	4H	16.01	16.83	16.90	17.73	18.88	19.92	20.74	20.80	21.63	22.78
	6H	16.14	16.89	17.04	17.80	18.96	20.20	20.96	21.10	21.86	23.02
	8H	16.14	16.86	17.05	17.78	18.94	20.27	20.99	21.18	21.91	23.07
	12H	16.12	16.80	17.03	17.72	18.90	20.31	21.00	21.22	21.91	23.09
4H	2H	16.37	17.19	17.26	18.09	19.23	18.55	19.37	19.45	20.27	21.42
	3H	17.41	18.09	18.31	19.02	20.18	20.06	20.74	20.96	21.67	22.83
	4H	17.69	18.31	18.60	19.23	20.42	20.59	21.21	21.50	22.13	23.32
	6H	17.82	18.36	18.75	19.30	20.49	20.95	21.49	21.88	22.43	23.62
	8H	17.83	18.33	18.76	19.27	20.47	21.05	21.56	21.99	22.50	23.70
	12H	17.80	18.25	18.75	19.21	20.42	21.11	21.56	22.06	22.52	23.73
8H	4H	18.15	18.65	19.08	19.59	20.79	20.72	21.22	21.65	22.16	23.36
	6H	18.41	18.83	19.37	19.81	21.01	21.15	21.57	22.11	22.55	23.75
	8H	18.45	18.82	19.42	19.80	21.01	21.30	21.67	22.27	22.64	23.86
	12H	18.44	18.77	19.41	19.73	21.00	21.40	21.72	22.37	22.69	23.95
12H	4H	18.16	18.61	19.11	19.57	20.77	20.69	21.14	21.64	22.10	23.31
	6H	18.47	18.84	19.44	19.81	21.03	21.15	21.52	22.12	22.49	23.71
	8H	18.54	18.87	19.51	19.83	21.10	21.31	21.64	22.28	22.60	23.87