

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: P934319

Luminaire Tested: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934319
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

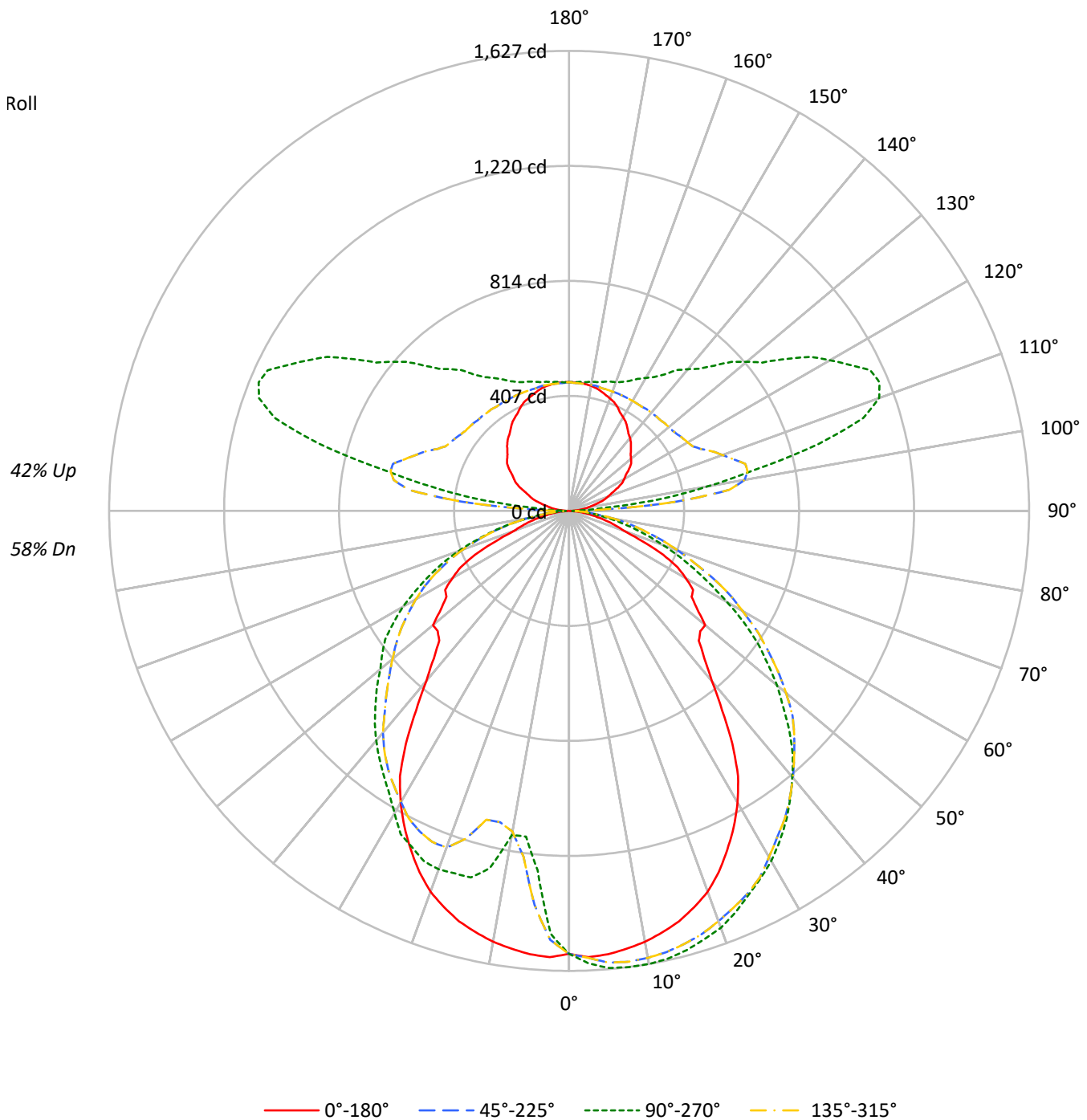
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7013.7 lumens
Efficiency: N/A
Efficacy: 128.5 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): 54.6
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

TEST NUMBER: P934319
CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9691	9691	9691	9691
5°	9759	9782	9759	7692
10°	9690	9636	9690	6889
15°	9581	9427	9581	7872
20°	9377	9180	9377	7888
25°	8963	8819	8963	7721
30°	8430	8519	8430	7354
35°	7512	8140	7512	6951
40°	6256	7695	6256	6646
45°	5586	7173	5586	6295
50°	5930	6550	5930	5944
55°	5574	5879	5574	5741
60°	5738	4994	5738	5258
65°	5194	4128	5194	4614
70°	3589	3290	3589	3867
75°	3135	2432	3135	2912
80°	2509	1608	2509	1750
85°	1413	852	1413	724

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8566 cd/sqm



TEST NUMBER: P934319

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	2.0
10°-20°	401.5	5.7
20°-30°	620.6	8.8
30°-40°	740.9	10.6
40°-50°	745.2	10.6
50°-60°	648.4	9.2
60°-70°	459.7	6.6
70°-80°	243.2	3.5
80°-90°	62.3	0.9
90°-100°	221.9	3.2
100°-110°	583.3	8.3
110°-120°	604.8	8.6
120°-130°	485.1	6.9
130°-140°	380.6	5.4
140°-150°	292.2	4.2
150°-160°	210.4	3.0
160°-170°	128.7	1.8
170°-180°	43.5	0.6
0°-30°	1163.5	16.6
0°-40°	1904.4	27.2
0°-60°	3298.0	47.0
0°-90°	4063.3	57.9
90°-120°	1409.9	20.1
90°-150°	2567.8	36.6
90°-180°	2950.0	42.1
0°-180°	7013.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1566	1566	1566	1566	1566	
5°	1574	1623	1574	1276	1574	149
15°	1503	1608	1503	1343	1503	423
25°	1323	1500	1323	1313	1323	608
35°	1006	1338	1006	1143	1006	623
45°	649	1103	649	968	649	520
55°	529	814	529	794	529	486
65°	368	490	368	548	368	351
75°	139	233	139	279	139	146
85°	24	59	24	50	24	32
90°	3	12	3	12	3	4
95°	29	134	29	134	29	33
105°	105	913	105	913	105	111
115°	187	1176	187	1176	187	184
125°	260	936	260	936	260	231
135°	309	727	309	727	309	239
145°	359	590	359	590	359	225
155°	406	508	406	508	406	186
165°	438	473	438	473	438	124
175°	455	458	455	458	455	43
180°	455	455	455	455	455	



TEST NUMBER: P934319
 CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1579.8	1579.8	1588.7	1591.7	1591.7	1587.2	1582.8	1587.2	1600.6	1605.0	1603.5
5°	1573.9	1585.7	1602.0	1605.0	1608.0	1606.5	1603.5	1606.5	1621.3	1624.3	1625.8
7.5°	1562.0	1584.3	1605.0	1609.5	1613.9	1609.5	1608.0	1610.9	1625.8	1628.7	1628.7
10°	1547.2	1578.3	1602.0	1605.0	1609.5	1605.0	1605.0	1610.9	1625.8	1628.7	1630.2
12.5°	1526.5	1569.4	1591.7	1594.6	1600.6	1599.1	1597.6	1603.5	1618.3	1621.3	1621.3
15°	1502.7	1553.1	1573.9	1576.8	1587.2	1584.3	1584.3	1590.2	1606.5	1610.9	1609.5
17.5°	1470.1	1532.4	1556.1	1560.5	1568.0	1566.5	1568.0	1573.9	1588.7	1591.7	1593.2
20°	1433.1	1504.2	1532.4	1536.8	1544.2	1544.2	1544.2	1551.7	1566.5	1572.4	1572.4
22.5°	1382.7	1474.6	1504.2	1507.2	1516.1	1516.1	1519.0	1529.4	1542.8	1544.2	1544.2
25°	1323.4	1442.0	1467.2	1476.1	1485.0	1489.4	1493.9	1499.8	1504.2	1502.7	1504.2
27.5°	1261.2	1400.5	1433.1	1439.0	1450.9	1455.3	1461.3	1462.7	1464.2	1468.7	1465.7
30°	1191.5	1342.7	1391.6	1397.5	1416.8	1419.8	1413.8	1416.8	1424.2	1427.2	1430.1
32.5°	1113.0	1256.7	1348.6	1362.0	1379.7	1370.8	1369.4	1373.8	1385.7	1385.7	1388.6
35°	1006.3	1190.0	1308.6	1320.5	1333.8	1323.4	1329.4	1330.8	1338.2	1342.7	1341.2
37.5°	889.2	1132.2	1267.1	1276.0	1286.4	1273.0	1281.9	1286.4	1292.3	1289.3	1289.3
40°	785.5	1041.8	1218.2	1224.1	1233.0	1222.6	1231.5	1234.5	1237.5	1234.5	1233.0
42.5°	708.4	942.6	1166.3	1173.7	1167.8	1175.2	1178.2	1184.1	1179.7	1173.7	1173.7
45°	649.1	915.9	1110.0	1118.9	1110.0	1121.9	1126.3	1126.3	1113.0	1110.0	1108.5
47.5°	629.8	862.5	1053.7	1053.7	1049.3	1064.1	1071.5	1061.1	1047.8	1043.3	1043.3
50°	628.4	803.2	976.6	970.7	991.5	1009.2	1001.8	991.5	981.1	964.8	964.8
52.5°	570.6	730.6	877.3	899.6	932.2	942.6	930.7	920.3	902.5	895.1	889.2
55°	529.1	655.0	786.9	831.4	865.5	878.8	856.6	846.2	819.5	815.1	812.1
57.5°	520.2	545.4	704.0	760.3	801.8	800.3	786.9	767.7	745.4	741.0	739.5
60°	477.2	394.2	615.0	681.7	724.7	720.3	708.4	690.6	669.9	666.9	663.9
62.5°	432.7	286.0	514.3	589.8	650.6	649.1	638.7	612.1	597.2	589.8	583.9
65°	367.5	240.1	366.1	490.5	578.0	580.9	558.7	539.4	523.1	514.3	512.8
67.5°	280.1	195.6	247.5	409.0	508.3	505.4	477.2	468.3	447.6	443.1	434.2
70°	207.5	130.4	171.9	332.0	440.2	432.7	410.5	400.1	380.9	370.5	364.6
72.5°	171.9	105.2	126.0	257.9	370.5	361.6	342.3	330.5	314.2	305.3	299.4
75°	139.3	111.2	96.3	191.2	300.8	294.9	277.1	265.3	251.9	240.1	241.6
77.5°	102.3	103.7	77.1	140.8	238.6	229.7	219.3	204.5	198.6	186.7	186.7
80°	77.1	81.5	57.8	96.3	171.9	171.9	163.0	152.6	142.3	136.3	136.3
82.5°	51.9	51.9	43.0	60.8	117.1	112.6	106.7	103.7	97.8	94.8	94.8
85°	23.7	29.6	26.7	37.0	63.7	66.7	66.7	63.7	62.2	59.3	60.8
87.5°	7.4	13.3	16.3	20.7	32.6	34.1	35.6	35.6	35.6	37.0	37.0
90°	3.1	5.5	8.0	8.6	13.4	20.0	23.2	20.6	15.4	11.6	11.6
92.5°	12.3	33.0	53.7	59.0	82.9	114.8	130.7	114.5	82.2	58.0	55.7
95°	29.3	67.3	105.3	114.8	203.9	322.8	382.2	341.1	258.8	197.0	190.0
97.5°	50.7	84.3	117.8	126.2	274.8	472.9	571.9	545.9	493.8	454.8	441.4
100°	67.2	97.6	128.0	135.7	300.5	520.3	630.1	632.0	635.9	638.7	622.9
102.5°	81.2	109.7	138.0	145.1	312.3	535.2	646.6	679.7	746.0	795.7	782.2
105°	105.1	129.1	153.1	159.2	321.0	536.9	644.8	719.1	867.6	979.0	971.7
107.5°	129.5	152.0	174.3	179.9	322.7	513.0	608.1	711.7	918.8	1074.3	1076.0
110°	146.0	166.2	186.4	191.5	320.2	491.8	577.6	693.4	925.1	1098.8	1106.4



TEST NUMBER: P934319

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	162.2	181.5	200.8	205.6	320.3	473.4	549.8	668.4	905.4	1083.1	1094.8
115°	186.6	204.4	222.2	226.6	323.3	452.1	516.5	630.7	859.1	1030.3	1046.5
117.5°	210.7	226.9	243.0	247.1	329.3	438.9	493.6	596.7	802.8	957.3	975.3
120°	224.8	240.0	255.2	259.1	334.1	434.3	484.4	578.6	766.9	908.1	925.6
122.5°	238.6	253.9	269.2	273.1	341.2	432.0	477.4	562.2	731.8	859.0	876.2
125°	259.6	273.6	287.6	291.1	350.6	430.1	469.8	541.8	685.9	793.9	809.7
127.5°	276.7	290.9	305.0	308.6	360.1	429.0	463.4	525.2	648.8	741.6	754.9
130°	285.9	301.1	316.4	320.1	367.0	429.6	460.9	515.9	626.1	708.7	721.0
132.5°	295.4	310.6	325.8	329.6	372.7	430.1	458.8	508.1	606.6	680.5	691.6
135°	309.4	323.3	337.1	340.6	378.8	429.7	455.2	496.5	579.0	640.8	650.4
137.5°	323.8	337.5	351.1	354.6	387.9	432.2	454.5	489.4	559.1	611.5	619.3
140°	335.7	348.4	360.9	364.1	393.5	432.7	452.4	482.5	542.8	588.0	595.3
142.5°	344.8	356.5	368.1	371.1	398.2	434.3	452.4	478.9	531.7	571.5	577.8
145°	358.9	369.1	379.3	381.9	404.4	434.3	449.3	471.0	514.3	546.8	551.5
147.5°	373.0	382.8	392.8	395.3	413.3	437.3	449.3	466.3	500.4	526.0	530.0
150°	382.2	391.1	400.0	402.3	418.0	438.9	449.3	463.8	492.5	514.1	517.2
152.5°	391.5	398.4	405.2	406.9	421.0	439.9	449.3	461.6	486.2	504.6	506.9
155°	405.7	410.7	415.7	416.9	427.7	442.1	449.3	459.1	478.7	493.3	494.9
157.5°	416.0	420.9	425.8	427.0	434.4	444.4	449.3	457.0	472.2	483.5	484.6
160°	423.1	426.8	430.6	431.6	437.5	445.4	449.3	455.9	468.9	478.7	479.3
162.5°	430.1	432.9	435.8	436.5	440.7	446.5	449.3	454.9	465.8	474.0	474.6
165°	437.7	440.3	442.8	443.5	445.5	448.1	449.3	453.3	461.1	467.0	467.7
167.5°	444.7	445.9	447.2	447.5	449.1	451.3	452.4	455.0	460.1	464.0	464.3
170°	449.3	450.5	451.8	452.1	452.2	452.3	452.4	455.0	460.1	464.0	464.0
172.5°	451.8	452.1	452.3	452.4	452.4	452.4	452.4	454.4	458.4	461.5	461.3
175°	455.2	455.2	455.2	455.2	454.3	453.0	452.4	453.7	456.3	458.1	458.1
177.5°	455.2	455.2	455.2	455.2	454.5	453.5	453.0	454.0	456.1	457.5	457.2
180°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1606.5	1602.0	1606.5	1603.5	1605.0	1600.6	1587.2	1582.8	1587.2	1591.7	1591.7
5°	1625.8	1622.8	1625.8	1625.8	1624.3	1621.3	1606.5	1603.5	1606.5	1608.0	1605.0
7.5°	1631.7	1627.2	1631.7	1628.7	1628.7	1625.8	1610.9	1608.0	1609.5	1613.9	1609.5
10°	1631.7	1627.2	1631.7	1630.2	1628.7	1625.8	1610.9	1605.0	1605.0	1609.5	1605.0
12.5°	1624.3	1621.3	1624.3	1621.3	1621.3	1618.3	1603.5	1597.6	1599.1	1600.6	1594.6
15°	1612.4	1608.0	1612.4	1609.5	1610.9	1606.5	1590.2	1584.3	1584.3	1587.2	1576.8
17.5°	1594.6	1588.7	1594.6	1593.2	1591.7	1588.7	1573.9	1568.0	1566.5	1568.0	1560.5
20°	1573.9	1569.4	1573.9	1572.4	1572.4	1566.5	1551.7	1544.2	1544.2	1544.2	1536.8
22.5°	1541.3	1536.8	1541.3	1544.2	1544.2	1542.8	1529.4	1519.0	1516.1	1516.1	1507.2
25°	1504.2	1499.8	1504.2	1504.2	1502.7	1504.2	1499.8	1493.9	1489.4	1485.0	1476.1
27.5°	1468.7	1465.7	1468.7	1465.7	1468.7	1464.2	1462.7	1461.3	1455.3	1450.9	1439.0
30°	1433.1	1430.1	1433.1	1430.1	1427.2	1424.2	1416.8	1413.8	1419.8	1416.8	1397.5
32.5°	1388.6	1385.7	1388.6	1388.6	1385.7	1385.7	1373.8	1369.4	1370.8	1379.7	1362.0
35°	1342.7	1338.2	1342.7	1341.2	1342.7	1338.2	1330.8	1329.4	1323.4	1333.8	1320.5
37.5°	1289.3	1284.9	1289.3	1289.3	1289.3	1292.3	1286.4	1281.9	1273.0	1286.4	1276.0
40°	1234.5	1228.6	1234.5	1233.0	1234.5	1237.5	1234.5	1231.5	1222.6	1233.0	1224.1
42.5°	1172.3	1170.8	1172.3	1173.7	1173.7	1179.7	1184.1	1178.2	1175.2	1167.8	1173.7
45°	1105.6	1102.6	1105.6	1108.5	1110.0	1113.0	1126.3	1126.3	1121.9	1110.0	1118.9
47.5°	1034.4	1027.0	1034.4	1043.3	1043.3	1047.8	1061.1	1071.5	1064.1	1049.3	1053.7
50°	958.9	960.3	958.9	964.8	964.8	981.1	991.5	1001.8	1009.2	991.5	970.7
52.5°	884.8	883.3	884.8	889.2	895.1	902.5	920.3	930.7	942.6	932.2	899.6
55°	810.7	813.6	810.7	812.1	815.1	819.5	846.2	856.6	878.8	865.5	831.4
57.5°	736.6	732.1	736.6	739.5	741.0	745.4	767.7	786.9	800.3	801.8	760.3
60°	650.6	644.7	650.6	663.9	666.9	669.9	690.6	708.4	720.3	724.7	681.7
62.5°	575.0	564.6	575.0	583.9	589.8	597.2	612.1	638.7	649.1	650.6	589.8
65°	495.0	490.5	495.0	512.8	514.3	523.1	539.4	558.7	580.9	578.0	490.5
67.5°	422.4	422.4	422.4	434.2	443.1	447.6	468.3	477.2	505.4	508.3	409.0
70°	355.7	354.2	355.7	364.6	370.5	380.9	400.1	410.5	432.7	440.2	332.0
72.5°	292.0	290.5	292.0	299.4	305.3	314.2	330.5	342.3	361.6	370.5	257.9
75°	235.6	232.7	235.6	241.6	240.1	251.9	265.3	277.1	294.9	300.8	191.2
77.5°	180.8	180.8	180.8	186.7	186.7	198.6	204.5	219.3	229.7	238.6	140.8
80°	134.9	133.4	134.9	136.3	136.3	142.3	152.6	163.0	171.9	171.9	96.3
82.5°	94.8	91.9	94.8	94.8	94.8	97.8	103.7	106.7	112.6	117.1	60.8
85°	59.3	59.3	59.3	60.8	59.3	62.2	63.7	66.7	66.7	63.7	37.0
87.5°	38.5	37.0	38.5	37.0	37.0	35.6	35.6	35.6	34.1	32.6	20.7
90°	11.6	11.6	11.6	11.6	11.6	15.4	20.6	23.2	20.0	13.4	8.6
92.5°	46.4	37.2	46.4	55.7	58.0	82.2	114.5	130.7	114.8	82.9	59.0
95°	162.0	134.1	162.0	190.0	197.0	258.8	341.1	382.2	322.8	203.9	114.8
97.5°	388.3	335.1	388.3	441.4	454.8	493.8	545.9	571.9	472.9	274.8	126.2
100°	559.5	496.1	559.5	622.9	638.7	635.9	632.0	630.1	520.3	300.5	135.7
102.5°	727.9	673.5	727.9	782.2	795.7	746.0	679.7	646.6	535.2	312.3	145.1
105°	942.6	913.3	942.6	971.7	979.0	867.6	719.1	644.8	536.9	321.0	159.2
107.5°	1083.0	1090.2	1083.0	1076.0	1074.3	918.8	711.7	608.1	513.0	322.7	179.9
110°	1136.7	1167.1	1136.7	1106.4	1098.8	925.1	693.4	577.6	491.8	320.2	191.5



TEST NUMBER: P934319

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1141.5	1188.2	1141.5	1094.8	1083.1	905.4	668.4	549.8	473.4	320.3	205.6
115°	1111.2	1176.0	1111.2	1046.5	1030.3	859.1	630.7	516.5	452.1	323.3	226.6
117.5°	1047.1	1118.9	1047.1	975.3	957.3	802.8	596.7	493.6	438.9	329.3	247.1
120°	995.3	1065.2	995.3	925.6	908.1	766.9	578.6	484.4	434.3	334.1	259.1
122.5°	945.0	1013.8	945.0	876.2	859.0	731.8	562.2	477.4	432.0	341.2	273.1
125°	873.1	936.5	873.1	809.7	793.9	685.9	541.8	469.8	430.1	350.6	291.1
127.5°	808.5	862.0	808.5	754.9	741.6	648.8	525.2	463.4	429.0	360.1	308.6
130°	770.4	819.8	770.4	721.0	708.7	626.1	515.9	460.9	429.6	367.0	320.1
132.5°	735.9	780.1	735.9	691.6	680.5	606.6	508.1	458.8	430.1	372.7	329.6
135°	688.5	726.7	688.5	650.4	640.8	579.0	496.5	455.2	429.7	378.8	340.6
137.5°	650.6	681.8	650.6	619.3	611.5	559.1	489.4	454.5	432.2	387.9	354.6
140°	624.4	653.7	624.4	595.3	588.0	542.8	482.5	452.4	432.7	393.5	364.1
142.5°	602.9	628.0	602.9	577.8	571.5	531.7	478.9	452.4	434.3	398.2	371.1
145°	570.6	589.5	570.6	551.5	546.8	514.3	471.0	449.3	434.3	404.4	381.9
147.5°	545.7	561.4	545.7	530.0	526.0	500.4	466.3	449.3	437.3	413.3	395.3
150°	530.1	542.8	530.1	517.2	514.1	492.5	463.8	449.3	438.9	418.0	402.3
152.5°	516.6	526.3	516.6	506.9	504.6	486.2	461.6	449.3	439.9	421.0	406.9
155°	501.3	507.6	501.3	494.9	493.3	478.7	459.1	449.3	442.1	427.7	416.9
157.5°	489.2	493.6	489.2	484.6	483.5	472.2	457.0	449.3	444.4	434.4	427.0
160°	481.8	484.4	481.8	479.3	478.7	468.9	455.9	449.3	445.4	437.5	431.6
162.5°	477.1	479.6	477.1	474.6	474.0	465.8	454.9	449.3	446.5	440.7	436.5
165°	470.3	472.9	470.3	467.7	467.0	461.1	453.3	449.3	448.1	445.5	443.5
167.5°	465.3	466.4	465.3	464.3	464.0	460.1	455.0	452.4	451.3	449.1	447.5
170°	464.0	464.0	464.0	464.0	464.0	460.1	455.0	452.4	452.3	452.2	452.1
172.5°	460.3	459.4	460.3	461.3	461.5	458.4	454.4	452.4	452.4	452.4	452.4
175°	458.1	458.1	458.1	458.1	458.1	456.3	453.7	452.4	453.0	454.3	455.2
177.5°	456.3	455.2	456.3	457.2	457.5	456.1	454.0	453.0	453.5	454.5	455.2
180°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2



TEST NUMBER: P934319

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1588.7	1579.8	1579.8	1565.0	1559.1	1554.6	1547.2	1525.0	1519.0	1513.1	1522.0
5°	1602.0	1585.7	1573.9	1547.2	1525.0	1516.1	1487.9	1434.6	1399.0	1372.3	1357.5
7.5°	1605.0	1584.3	1562.0	1520.5	1467.2	1443.5	1357.5	1259.7	1233.0	1209.3	1194.5
10°	1602.0	1578.3	1547.2	1485.0	1359.0	1317.5	1231.5	1167.8	1151.5	1147.1	1151.5
12.5°	1591.7	1569.4	1526.5	1422.7	1246.4	1218.2	1167.8	1130.8	1127.8	1135.2	1175.2
15°	1573.9	1553.1	1502.7	1339.7	1184.1	1163.4	1127.8	1114.5	1130.8	1182.6	1302.7
17.5°	1556.1	1532.4	1470.1	1258.2	1136.7	1121.9	1096.7	1123.4	1215.2	1284.9	1324.9
20°	1532.4	1504.2	1433.1	1198.9	1102.6	1089.3	1077.4	1197.5	1267.1	1292.3	1314.5
22.5°	1504.2	1474.6	1382.7	1157.4	1067.0	1056.7	1064.1	1239.0	1267.1	1284.9	1304.2
25°	1467.2	1442.0	1323.4	1124.8	1038.9	1027.0	1055.2	1234.5	1250.8	1255.3	1293.8
27.5°	1433.1	1400.5	1261.2	1095.2	1004.8	1000.4	1062.6	1215.2	1227.1	1231.5	1273.0
30°	1391.6	1342.7	1191.5	1064.1	969.2	967.7	1064.1	1191.5	1188.6	1200.4	1241.9
32.5°	1348.6	1256.7	1113.0	1025.5	935.1	933.7	1053.7	1156.0	1153.0	1169.3	1200.4
35°	1308.6	1190.0	1006.3	981.1	892.2	893.6	1028.5	1114.5	1115.9	1130.8	1150.0
37.5°	1267.1	1132.2	889.2	932.2	850.7	850.7	994.4	1075.9	1073.0	1077.4	1104.1
40°	1218.2	1041.8	785.5	868.5	812.1	807.7	952.9	1034.4	1024.1	1022.6	1059.6
42.5°	1166.3	942.6	708.4	784.0	767.7	761.7	902.5	984.0	964.8	969.2	1016.7
45°	1110.0	915.9	649.1	662.5	721.7	717.3	847.7	926.2	912.9	924.8	973.7
47.5°	1053.7	862.5	629.8	549.8	672.8	671.3	786.9	869.9	862.5	874.4	926.2
50°	976.6	803.2	628.4	471.3	618.0	623.9	714.3	815.1	815.1	825.5	880.3
52.5°	877.3	730.6	570.6	426.8	554.3	572.1	650.6	767.7	770.6	781.0	829.9
55°	786.9	655.0	529.1	392.7	478.7	517.2	588.4	718.8	724.7	735.1	779.5
57.5°	704.0	545.4	520.2	352.7	409.0	446.1	533.5	671.3	674.3	683.2	726.2
60°	615.0	394.2	477.2	309.7	348.3	376.4	483.1	615.0	625.4	631.3	668.4
62.5°	514.3	286.0	432.7	280.1	318.6	324.6	441.6	561.7	575.0	579.5	601.7
65°	366.1	240.1	367.5	254.9	287.5	289.0	397.2	506.8	518.7	526.1	542.4
67.5°	247.5	195.6	280.1	231.2	263.8	265.3	354.2	443.1	459.4	465.3	475.7
70°	171.9	130.4	207.5	206.0	237.1	240.1	308.3	385.3	400.1	404.6	410.5
72.5°	126.0	105.2	171.9	185.2	209.0	211.9	260.8	320.1	334.9	339.4	342.3
75°	96.3	111.2	139.3	161.5	177.8	179.3	213.4	260.8	271.2	274.2	275.7
77.5°	77.1	103.7	102.3	130.4	145.2	142.3	167.5	201.6	210.4	210.4	210.4
80°	57.8	81.5	77.1	93.4	106.7	103.7	120.0	143.8	146.7	149.7	148.2
82.5°	43.0	51.9	51.9	59.3	71.1	68.2	80.0	93.4	93.4	93.4	96.3
85°	26.7	29.6	23.7	31.1	40.0	38.5	44.5	50.4	51.9	51.9	48.9
87.5°	16.3	13.3	7.4	11.9	17.8	17.8	20.7	22.2	20.7	20.7	20.7
90°	8.0	5.5	3.1	5.5	8.0	8.6	13.4	20.0	23.2	20.6	15.4
92.5°	53.7	33.0	12.3	33.0	53.7	59.0	82.9	114.8	130.7	114.5	82.2
95°	105.3	67.3	29.3	67.3	105.3	114.8	203.9	322.8	382.2	341.1	258.8
97.5°	117.8	84.3	50.7	84.3	117.8	126.2	274.8	472.9	571.9	545.9	493.8
100°	128.0	97.6	67.2	97.6	128.0	135.7	300.5	520.3	630.1	632.0	635.9
102.5°	138.0	109.7	81.2	109.7	138.0	145.1	312.3	535.2	646.6	679.7	746.0
105°	153.1	129.1	105.1	129.1	153.1	159.2	321.0	536.9	644.8	719.1	867.6
107.5°	174.3	152.0	129.5	152.0	174.3	179.9	322.7	513.0	608.1	711.7	918.8
110°	186.4	166.2	146.0	166.2	186.4	191.5	320.2	491.8	577.6	693.4	925.1



TEST NUMBER: P934319

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	200.8	181.5	162.2	181.5	200.8	205.6	320.3	473.4	549.8	668.4	905.4
115°	222.2	204.4	186.6	204.4	222.2	226.6	323.3	452.1	516.5	630.7	859.1
117.5°	243.0	226.9	210.7	226.9	243.0	247.1	329.3	438.9	493.6	596.7	802.8
120°	255.2	240.0	224.8	240.0	255.2	259.1	334.1	434.3	484.4	578.6	766.9
122.5°	269.2	253.9	238.6	253.9	269.2	273.1	341.2	432.0	477.4	562.2	731.8
125°	287.6	273.6	259.6	273.6	287.6	291.1	350.6	430.1	469.8	541.8	685.9
127.5°	305.0	290.9	276.7	290.9	305.0	308.6	360.1	429.0	463.4	525.2	648.8
130°	316.4	301.1	285.9	301.1	316.4	320.1	367.0	429.6	460.9	515.9	626.1
132.5°	325.8	310.6	295.4	310.6	325.8	329.6	372.7	430.1	458.8	508.1	606.6
135°	337.1	323.3	309.4	323.3	337.1	340.6	378.8	429.7	455.2	496.5	579.0
137.5°	351.1	337.5	323.8	337.5	351.1	354.6	387.9	432.2	454.5	489.4	559.1
140°	360.9	348.4	335.7	348.4	360.9	364.1	393.5	432.7	452.4	482.5	542.8
142.5°	368.1	356.5	344.8	356.5	368.1	371.1	398.2	434.3	452.4	478.9	531.7
145°	379.3	369.1	358.9	369.1	379.3	381.9	404.4	434.3	449.3	471.0	514.3
147.5°	392.8	382.8	373.0	382.8	392.8	395.3	413.3	437.3	449.3	466.3	500.4
150°	400.0	391.1	382.2	391.1	400.0	402.3	418.0	438.9	449.3	463.8	492.5
152.5°	405.2	398.4	391.5	398.4	405.2	406.9	421.0	439.9	449.3	461.6	486.2
155°	415.7	410.7	405.7	410.7	415.7	416.9	427.7	442.1	449.3	459.1	478.7
157.5°	425.8	420.9	416.0	420.9	425.8	427.0	434.4	444.4	449.3	457.0	472.2
160°	430.6	426.8	423.1	426.8	430.6	431.6	437.5	445.4	449.3	455.9	468.9
162.5°	435.8	432.9	430.1	432.9	435.8	436.5	440.7	446.5	449.3	454.9	465.8
165°	442.8	440.3	437.7	440.3	442.8	443.5	445.5	448.1	449.3	453.3	461.1
167.5°	447.2	445.9	444.7	445.9	447.2	447.5	449.1	451.3	452.4	455.0	460.1
170°	451.8	450.5	449.3	450.5	451.8	452.1	452.2	452.3	452.4	455.0	460.1
172.5°	452.3	452.1	451.8	452.1	452.3	452.4	452.4	452.4	452.4	454.4	458.4
175°	455.2	455.2	455.2	455.2	455.2	455.2	454.3	453.0	452.4	453.7	456.3
177.5°	455.2	455.2	455.2	455.2	455.2	455.2	454.5	453.5	453.0	454.0	456.1
180°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2



TEST NUMBER: P934319
 CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1511.6	1507.2	1513.1	1496.8	1513.1	1507.2	1511.6	1522.0	1513.1	1519.0	1525.0
5°	1326.4	1319.0	1295.3	1276.0	1295.3	1319.0	1326.4	1357.5	1372.3	1399.0	1434.6
7.5°	1185.6	1179.7	1173.7	1161.9	1173.7	1179.7	1185.6	1194.5	1209.3	1233.0	1259.7
10°	1154.5	1156.0	1164.9	1163.4	1164.9	1156.0	1154.5	1151.5	1147.1	1151.5	1167.8
12.5°	1234.5	1247.8	1296.8	1293.8	1296.8	1247.8	1234.5	1175.2	1135.2	1127.8	1130.8
15°	1326.4	1330.8	1341.2	1342.7	1341.2	1330.8	1326.4	1302.7	1182.6	1130.8	1114.5
17.5°	1335.3	1336.8	1344.2	1344.2	1344.2	1336.8	1335.3	1324.9	1284.9	1215.2	1123.4
20°	1327.9	1330.8	1345.7	1348.6	1345.7	1330.8	1327.9	1314.5	1292.3	1267.1	1197.5
22.5°	1324.9	1330.8	1342.7	1341.2	1342.7	1330.8	1324.9	1304.2	1284.9	1267.1	1239.0
25°	1310.1	1310.1	1311.6	1313.1	1311.6	1310.1	1310.1	1293.8	1255.3	1250.8	1234.5
27.5°	1279.0	1281.9	1290.8	1289.3	1290.8	1281.9	1279.0	1273.0	1231.5	1227.1	1215.2
30°	1250.8	1247.8	1240.4	1234.5	1240.4	1247.8	1250.8	1241.9	1200.4	1188.6	1191.5
32.5°	1203.4	1196.0	1188.6	1184.1	1188.6	1196.0	1203.4	1200.4	1169.3	1153.0	1156.0
35°	1147.1	1148.6	1147.1	1142.6	1147.1	1148.6	1147.1	1150.0	1130.8	1115.9	1114.5
37.5°	1107.1	1110.0	1108.5	1102.6	1108.5	1110.0	1107.1	1104.1	1077.4	1073.0	1075.9
40°	1065.6	1067.0	1065.6	1061.1	1065.6	1067.0	1065.6	1059.6	1022.6	1024.1	1034.4
42.5°	1025.5	1024.1	1019.6	1016.7	1019.6	1024.1	1025.5	1016.7	969.2	964.8	984.0
45°	979.6	981.1	972.2	967.7	972.2	981.1	979.6	973.7	924.8	912.9	926.2
47.5°	933.7	933.7	926.2	921.8	926.2	933.7	933.7	926.2	874.4	862.5	869.9
50°	884.8	883.3	872.9	871.4	872.9	883.3	884.8	880.3	825.5	815.1	815.1
52.5°	828.4	828.4	829.9	832.9	829.9	828.4	828.4	829.9	781.0	770.6	767.7
55°	779.5	781.0	791.4	794.4	791.4	781.0	779.5	779.5	735.1	724.7	718.8
57.5°	729.1	729.1	736.6	736.6	736.6	729.1	729.1	726.2	683.2	674.3	671.3
60°	671.3	674.3	680.2	678.8	680.2	674.3	671.3	668.4	631.3	625.4	615.0
62.5°	610.6	613.5	615.0	612.1	615.0	613.5	610.6	601.7	579.5	575.0	561.7
65°	546.9	549.8	551.3	548.3	551.3	549.8	546.9	542.4	526.1	518.7	506.8
67.5°	481.6	480.2	478.7	484.6	478.7	480.2	481.6	475.7	465.3	459.4	443.1
70°	415.0	415.0	413.5	416.4	413.5	415.0	415.0	410.5	404.6	400.1	385.3
72.5°	343.8	342.3	348.3	343.8	348.3	342.3	343.8	342.3	339.4	334.9	320.1
75°	274.2	277.1	274.2	278.6	274.2	277.1	274.2	275.7	274.2	271.2	260.8
77.5°	209.0	211.9	209.0	209.0	209.0	211.9	209.0	210.4	210.4	210.4	201.6
80°	148.2	146.7	146.7	145.2	146.7	146.7	148.2	148.2	149.7	146.7	143.8
82.5°	94.8	93.4	93.4	96.3	93.4	93.4	94.8	96.3	93.4	93.4	93.4
85°	51.9	53.4	50.4	50.4	50.4	53.4	51.9	48.9	51.9	51.9	50.4
87.5°	19.3	17.8	17.8	17.8	17.8	17.8	19.3	20.7	20.7	20.7	22.2
90°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	15.4	20.6	23.2	20.0
92.5°	58.0	55.7	46.4	37.2	46.4	55.7	58.0	82.2	114.5	130.7	114.8
95°	197.0	190.0	162.0	134.1	162.0	190.0	197.0	258.8	341.1	382.2	322.8
97.5°	454.8	441.4	388.3	335.1	388.3	441.4	454.8	493.8	545.9	571.9	472.9
100°	638.7	622.9	559.5	496.1	559.5	622.9	638.7	635.9	632.0	630.1	520.3
102.5°	795.7	782.2	727.9	673.5	727.9	782.2	795.7	746.0	679.7	646.6	535.2
105°	979.0	971.7	942.6	913.3	942.6	971.7	979.0	867.6	719.1	644.8	536.9
107.5°	1074.3	1076.0	1083.0	1090.2	1083.0	1076.0	1074.3	918.8	711.7	608.1	513.0
110°	1098.8	1106.4	1136.7	1167.1	1136.7	1106.4	1098.8	925.1	693.4	577.6	491.8



TEST NUMBER: P934319

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1083.1	1094.8	1141.5	1188.2	1141.5	1094.8	1083.1	905.4	668.4	549.8	473.4
115°	1030.3	1046.5	1111.2	1176.0	1111.2	1046.5	1030.3	859.1	630.7	516.5	452.1
117.5°	957.3	975.3	1047.1	1118.9	1047.1	975.3	957.3	802.8	596.7	493.6	438.9
120°	908.1	925.6	995.3	1065.2	995.3	925.6	908.1	766.9	578.6	484.4	434.3
122.5°	859.0	876.2	945.0	1013.8	945.0	876.2	859.0	731.8	562.2	477.4	432.0
125°	793.9	809.7	873.1	936.5	873.1	809.7	793.9	685.9	541.8	469.8	430.1
127.5°	741.6	754.9	808.5	862.0	808.5	754.9	741.6	648.8	525.2	463.4	429.0
130°	708.7	721.0	770.4	819.8	770.4	721.0	708.7	626.1	515.9	460.9	429.6
132.5°	680.5	691.6	735.9	780.1	735.9	691.6	680.5	606.6	508.1	458.8	430.1
135°	640.8	650.4	688.5	726.7	688.5	650.4	640.8	579.0	496.5	455.2	429.7
137.5°	611.5	619.3	650.6	681.8	650.6	619.3	611.5	559.1	489.4	454.5	432.2
140°	588.0	595.3	624.4	653.7	624.4	595.3	588.0	542.8	482.5	452.4	432.7
142.5°	571.5	577.8	602.9	628.0	602.9	577.8	571.5	531.7	478.9	452.4	434.3
145°	546.8	551.5	570.6	589.5	570.6	551.5	546.8	514.3	471.0	449.3	434.3
147.5°	526.0	530.0	545.7	561.4	545.7	530.0	526.0	500.4	466.3	449.3	437.3
150°	514.1	517.2	530.1	542.8	530.1	517.2	514.1	492.5	463.8	449.3	438.9
152.5°	504.6	506.9	516.6	526.3	516.6	506.9	504.6	486.2	461.6	449.3	439.9
155°	493.3	494.9	501.3	507.6	501.3	494.9	493.3	478.7	459.1	449.3	442.1
157.5°	483.5	484.6	489.2	493.6	489.2	484.6	483.5	472.2	457.0	449.3	444.4
160°	478.7	479.3	481.8	484.4	481.8	479.3	478.7	468.9	455.9	449.3	445.4
162.5°	474.0	474.6	477.1	479.6	477.1	474.6	474.0	465.8	454.9	449.3	446.5
165°	467.0	467.7	470.3	472.9	470.3	467.7	467.0	461.1	453.3	449.3	448.1
167.5°	464.0	464.3	465.3	466.4	465.3	464.3	464.0	460.1	455.0	452.4	451.3
170°	464.0	464.0	464.0	464.0	464.0	464.0	464.0	460.1	455.0	452.4	452.3
172.5°	461.5	461.3	460.3	459.4	460.3	461.3	461.5	458.4	454.4	452.4	452.4
175°	458.1	458.1	458.1	458.1	458.1	458.1	458.1	456.3	453.7	452.4	453.0
177.5°	457.5	457.2	456.3	455.2	456.3	457.2	457.5	456.1	454.0	453.0	453.5
180°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2



TEST NUMBER: P934319

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1547.2	1554.6	1559.1	1565.0	1579.8
5°	1487.9	1516.1	1525.0	1547.2	1573.9
7.5°	1357.5	1443.5	1467.2	1520.5	1562.0
10°	1231.5	1317.5	1359.0	1485.0	1547.2
12.5°	1167.8	1218.2	1246.4	1422.7	1526.5
15°	1127.8	1163.4	1184.1	1339.7	1502.7
17.5°	1096.7	1121.9	1136.7	1258.2	1470.1
20°	1077.4	1089.3	1102.6	1198.9	1433.1
22.5°	1064.1	1056.7	1067.0	1157.4	1382.7
25°	1055.2	1027.0	1038.9	1124.8	1323.4
27.5°	1062.6	1000.4	1004.8	1095.2	1261.2
30°	1064.1	967.7	969.2	1064.1	1191.5
32.5°	1053.7	933.7	935.1	1025.5	1113.0
35°	1028.5	893.6	892.2	981.1	1006.3
37.5°	994.4	850.7	850.7	932.2	889.2
40°	952.9	807.7	812.1	868.5	785.5
42.5°	902.5	761.7	767.7	784.0	708.4
45°	847.7	717.3	721.7	662.5	649.1
47.5°	786.9	671.3	672.8	549.8	629.8
50°	714.3	623.9	618.0	471.3	628.4
52.5°	650.6	572.1	554.3	426.8	570.6
55°	588.4	517.2	478.7	392.7	529.1
57.5°	533.5	446.1	409.0	352.7	520.2
60°	483.1	376.4	348.3	309.7	477.2
62.5°	441.6	324.6	318.6	280.1	432.7
65°	397.2	289.0	287.5	254.9	367.5
67.5°	354.2	265.3	263.8	231.2	280.1
70°	308.3	240.1	237.1	206.0	207.5
72.5°	260.8	211.9	209.0	185.2	171.9
75°	213.4	179.3	177.8	161.5	139.3
77.5°	167.5	142.3	145.2	130.4	102.3
80°	120.0	103.7	106.7	93.4	77.1
82.5°	80.0	68.2	71.1	59.3	51.9
85°	44.5	38.5	40.0	31.1	23.7
87.5°	20.7	17.8	17.8	11.9	7.4
90°	13.4	8.6	8.0	5.5	3.1
92.5°	82.9	59.0	53.7	33.0	12.3
95°	203.9	114.8	105.3	67.3	29.3
97.5°	274.8	126.2	117.8	84.3	50.7
100°	300.5	135.7	128.0	97.6	67.2
102.5°	312.3	145.1	138.0	109.7	81.2
105°	321.0	159.2	153.1	129.1	105.1
107.5°	322.7	179.9	174.3	152.0	129.5
110°	320.2	191.5	186.4	166.2	146.0



TEST NUMBER: P934319

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	320.3	205.6	200.8	181.5	162.2
115°	323.3	226.6	222.2	204.4	186.6
117.5°	329.3	247.1	243.0	226.9	210.7
120°	334.1	259.1	255.2	240.0	224.8
122.5°	341.2	273.1	269.2	253.9	238.6
125°	350.6	291.1	287.6	273.6	259.6
127.5°	360.1	308.6	305.0	290.9	276.7
130°	367.0	320.1	316.4	301.1	285.9
132.5°	372.7	329.6	325.8	310.6	295.4
135°	378.8	340.6	337.1	323.3	309.4
137.5°	387.9	354.6	351.1	337.5	323.8
140°	393.5	364.1	360.9	348.4	335.7
142.5°	398.2	371.1	368.1	356.5	344.8
145°	404.4	381.9	379.3	369.1	358.9
147.5°	413.3	395.3	392.8	382.8	373.0
150°	418.0	402.3	400.0	391.1	382.2
152.5°	421.0	406.9	405.2	398.4	391.5
155°	427.7	416.9	415.7	410.7	405.7
157.5°	434.4	427.0	425.8	420.9	416.0
160°	437.5	431.6	430.6	426.8	423.1
162.5°	440.7	436.5	435.8	432.9	430.1
165°	445.5	443.5	442.8	440.3	437.7
167.5°	449.1	447.5	447.2	445.9	444.7
170°	452.2	452.1	451.8	450.5	449.3
172.5°	452.4	452.4	452.3	452.1	451.8
175°	454.3	455.2	455.2	455.2	455.2
177.5°	454.5	455.2	455.2	455.2	455.2
180°	455.2	455.2	455.2	455.2	455.2



TEST NUMBER: P934319
 CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-6

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	13.40	14.33	14.28	15.24	16.39	16.22	17.16	17.10	18.06	19.22
	3H	13.88	14.72	14.78	15.63	16.81	17.57	18.41	18.47	19.33	20.50
	4H	14.07	14.87	14.99	15.79	16.98	18.02	18.81	18.93	19.73	20.92
	6H	14.20	14.93	15.12	15.86	17.06	18.30	19.04	19.23	19.96	21.16
	8H	14.20	14.90	15.13	15.84	17.04	18.38	19.08	19.31	20.02	21.22
	12H	14.17	14.84	15.11	15.78	17.00	18.42	19.08	19.36	20.02	21.25
4H	2H	14.44	15.23	15.35	16.15	17.34	16.64	17.43	17.56	18.35	19.54
	3H	15.47	16.13	16.40	17.08	18.29	18.15	18.81	19.08	19.76	20.97
	4H	15.75	16.35	16.69	17.30	18.53	18.68	19.28	19.62	20.23	21.46
	6H	15.88	16.40	16.83	17.37	18.60	19.05	19.57	20.00	20.54	21.77
	8H	15.89	16.37	16.84	17.34	18.58	19.16	19.64	20.11	20.61	21.85
	12H	15.86	16.30	16.83	17.28	18.53	19.21	19.65	20.19	20.64	21.88
8H	4H	16.21	16.69	17.16	17.66	18.90	18.81	19.30	19.77	20.26	21.50
	6H	16.47	16.88	17.45	17.88	19.12	19.25	19.65	20.23	20.66	21.90
	8H	16.52	16.87	17.51	17.87	19.13	19.40	19.76	20.39	20.75	22.01
	12H	16.50	16.82	17.50	17.81	19.11	19.50	19.81	20.50	20.80	22.11
12H	4H	16.22	16.66	17.19	17.64	18.89	18.78	19.22	19.75	20.20	21.45
	6H	16.53	16.89	17.52	17.89	19.14	19.25	19.60	20.24	20.60	21.86
	8H	16.60	16.92	17.60	17.91	19.21	19.41	19.72	20.40	20.71	22.02