

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: P933919

Luminaire Tested: SQ4-FA-025U-075D-840-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

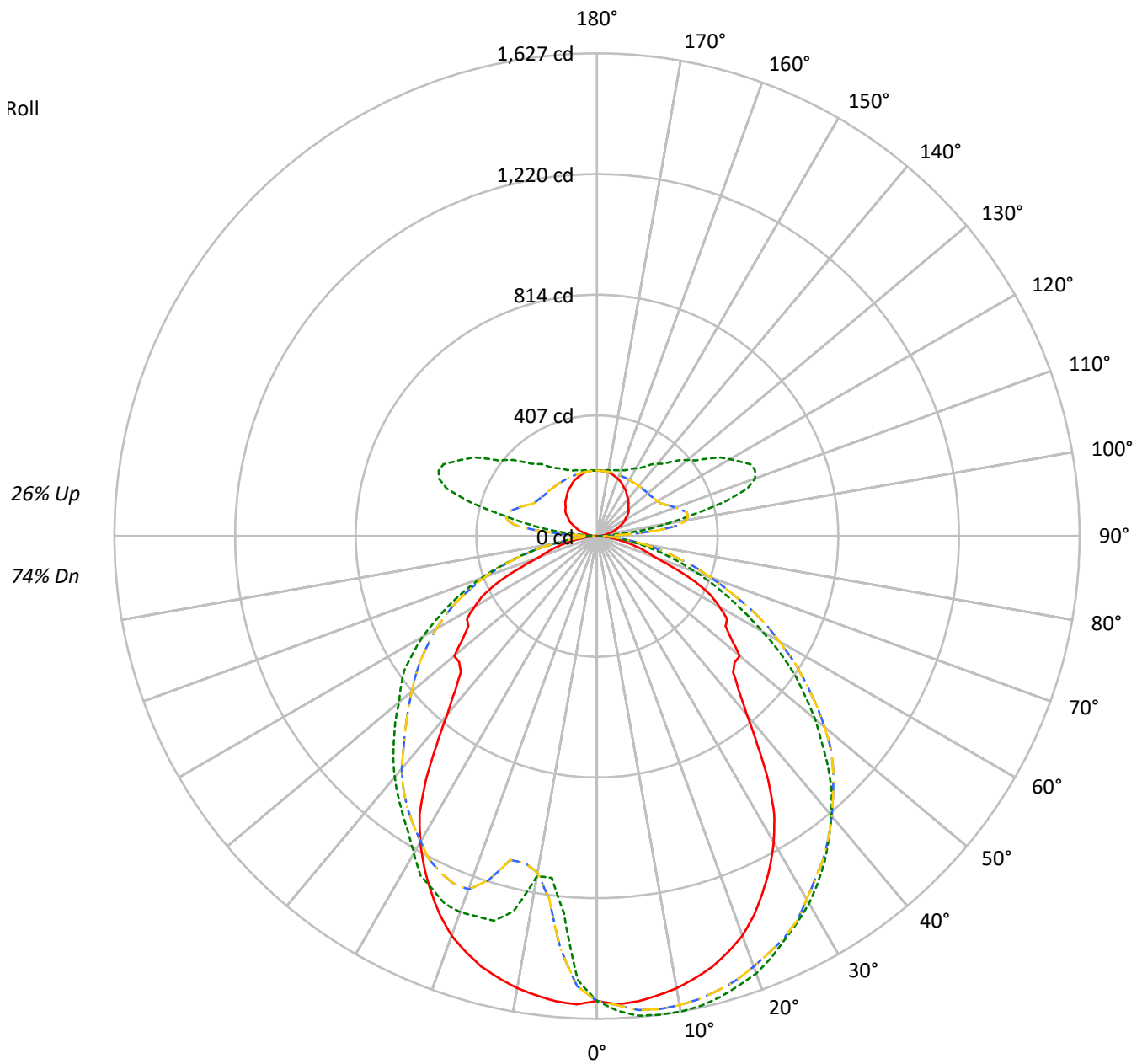
Test Method: LM-79-2019  
Report Number: P933919  
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5496.1 lumens  
Efficiency: N/A  
Efficacy: 122.1 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: Semi-Direct  
  
Input Watts (W): 45  
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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CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-6

### 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				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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74				74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62				62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52				52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44				44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38				38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33				33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29				29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26				26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23				23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21				21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19				19

**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



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CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.4	2.6
10°-20°	401.5	7.3
20°-30°	620.6	11.3
30°-40°	740.9	13.5
40°-50°	745.2	13.6
50°-60°	648.4	11.8
60°-70°	459.7	8.4
70°-80°	243.2	4.4
80°-90°	61.4	1.1
90°-100°	107.8	2.0
100°-110°	283.4	5.2
110°-120°	293.9	5.3
120°-130°	235.7	4.3
130°-140°	185.0	3.4
140°-150°	142.0	2.6
150°-160°	102.2	1.9
160°-170°	62.6	1.1
170°-180°	21.1	0.4
0°-30°	1163.5	21.2
0°-40°	1904.4	34.6
0°-60°	3298.0	60.0
0°-90°	4062.4	73.9
90°-120°	685.1	12.5
90°-150°	1247.8	22.7
90°-180°	1434.0	26.1
0°-180°	5496.1	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°	2	6	2	6	2	2
95°	14	65	14	65	14	16
105°	51	444	51	444	51	54
115°	91	572	91	572	91	90
125°	126	455	126	455	126	112
135°	150	353	150	353	150	116
145°	174	286	174	286	174	109
155°	197	247	197	247	197	91
165°	213	230	213	230	213	60
175°	221	223	221	223	221	21
180°	221	221	221	221	221	



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CATALOG NUMBER: SQ4-FA-025U-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°	1.5	2.7	3.9	4.1	6.5	9.7	11.3	10.0	7.5	5.6	5.6
92.5°	5.9	16.0	26.1	28.7	40.3	55.8	63.5	55.6	39.9	28.2	27.1
95°	14.2	32.7	51.2	55.8	99.1	156.8	185.6	165.7	125.7	95.7	92.4
97.5°	24.6	40.9	57.2	61.3	133.5	229.7	277.8	265.2	240.0	221.0	214.6
100°	32.7	47.4	62.2	65.9	146.0	252.8	306.2	307.1	308.9	310.3	302.6
102.5°	39.5	53.4	67.1	70.5	151.8	260.0	314.2	330.3	362.5	386.7	380.1
105°	51.1	62.7	74.4	77.4	156.0	260.8	313.3	349.4	421.6	475.7	472.2
107.5°	62.9	73.8	84.7	87.4	156.8	249.3	295.5	345.9	446.6	522.1	522.9
110°	70.9	80.8	90.6	93.1	155.6	239.0	280.7	337.0	449.5	533.9	537.6



TEST NUMBER: P933919

CATALOG NUMBER: SQ4-FA-025U-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°	78.8	88.2	97.5	99.9	155.6	230.0	267.2	324.8	440.0	526.3	531.9
115°	90.7	99.4	108.0	110.2	157.1	219.6	251.0	306.5	417.4	500.6	508.5
117.5°	102.5	110.3	118.1	120.0	160.0	213.2	239.9	290.0	390.1	465.2	473.8
120°	109.3	116.7	124.0	125.9	162.4	211.1	235.4	281.2	372.7	441.3	449.8
122.5°	115.9	123.4	130.8	132.7	165.8	210.0	232.0	273.2	355.6	417.4	425.8
125°	126.2	133.0	139.8	141.5	170.4	209.1	228.3	263.3	333.4	385.8	393.5
127.5°	134.5	141.3	148.2	149.9	175.0	208.5	225.2	255.2	315.4	360.4	366.9
130°	138.9	146.3	153.6	155.5	178.3	208.8	224.0	250.8	304.2	344.3	350.3
132.5°	143.6	151.0	158.3	160.2	181.1	209.1	223.0	246.9	294.8	330.7	336.0
135°	150.4	157.1	163.8	165.5	184.1	208.9	221.2	241.3	281.4	311.4	316.1
137.5°	157.4	164.0	170.6	172.3	188.5	210.1	220.9	237.9	271.8	297.2	300.9
140°	163.1	169.2	175.4	177.0	191.3	210.3	219.8	234.5	263.8	285.7	289.3
142.5°	167.6	173.2	178.9	180.3	193.5	211.0	219.8	232.7	258.5	277.7	280.8
145°	174.4	179.3	184.3	185.5	196.5	211.0	218.3	228.8	249.9	265.7	267.9
147.5°	181.2	186.0	190.9	192.1	200.9	212.5	218.3	226.6	243.1	255.6	257.5
150°	185.6	190.0	194.4	195.5	203.1	213.3	218.3	225.4	239.3	249.8	251.3
152.5°	190.3	193.5	196.9	197.7	204.6	213.8	218.3	224.3	236.2	245.2	246.4
155°	197.1	199.6	202.0	202.6	207.9	214.9	218.3	223.1	232.6	239.7	240.5
157.5°	202.1	204.5	206.9	207.5	211.1	216.0	218.3	222.0	229.4	234.9	235.5
160°	205.6	207.5	209.3	209.8	212.6	216.5	218.3	221.5	227.8	232.6	232.9
162.5°	209.0	210.3	211.7	212.1	214.2	217.0	218.3	221.0	226.4	230.4	230.7
165°	212.7	213.9	215.2	215.5	216.5	217.8	218.3	220.2	224.1	226.9	227.2
167.5°	216.1	216.7	217.3	217.5	218.2	219.3	219.8	221.1	223.6	225.5	225.6
170°	218.3	218.9	219.5	219.6	219.7	219.8	219.8	221.1	223.6	225.5	225.5
172.5°	219.5	219.6	219.8	219.8	219.8	219.8	219.8	220.8	222.8	224.3	224.2
175°	221.2	221.2	221.2	221.2	220.7	220.1	219.8	220.4	221.7	222.7	222.7
177.5°	221.2	221.2	221.2	221.2	220.8	220.3	220.1	220.6	221.6	222.4	222.3
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



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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°	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.3	9.7	6.5	4.1
92.5°	22.5	18.1	22.5	27.1	28.2	39.9	55.6	63.5	55.8	40.3	28.7
95°	78.7	65.2	78.7	92.4	95.7	125.7	165.7	185.6	156.8	99.1	55.8
97.5°	188.7	162.8	188.7	214.6	221.0	240.0	265.2	277.8	229.7	133.5	61.3
100°	271.9	241.1	271.9	302.6	310.3	308.9	307.1	306.2	252.8	146.0	65.9
102.5°	353.7	327.3	353.7	380.1	386.7	362.5	330.3	314.2	260.0	151.8	70.5
105°	458.0	443.8	458.0	472.2	475.7	421.6	349.4	313.3	260.8	156.0	77.4
107.5°	526.3	529.8	526.3	522.9	522.1	446.6	345.9	295.5	249.3	156.8	87.4
110°	552.4	567.2	552.4	537.6	533.9	449.5	337.0	280.7	239.0	155.6	93.1





TEST NUMBER: P933919

CATALOG NUMBER: SQ4-FA-025U-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°	554.7	577.4	554.7	531.9	526.3	440.0	324.8	267.2	230.0	155.6	99.9
115°	539.9	571.5	539.9	508.5	500.6	417.4	306.5	251.0	219.6	157.1	110.2
117.5°	508.8	543.7	508.8	473.8	465.2	390.1	290.0	239.9	213.2	160.0	120.0
120°	483.7	517.6	483.7	449.8	441.3	372.7	281.2	235.4	211.1	162.4	125.9
122.5°	459.2	492.6	459.2	425.8	417.4	355.6	273.2	232.0	210.0	165.8	132.7
125°	424.2	455.1	424.2	393.5	385.8	333.4	263.3	228.3	209.1	170.4	141.5
127.5°	392.9	418.9	392.9	366.9	360.4	315.4	255.2	225.2	208.5	175.0	149.9
130°	374.4	398.4	374.4	350.3	344.3	304.2	250.8	224.0	208.8	178.3	155.5
132.5°	357.6	379.1	357.6	336.0	330.7	294.8	246.9	223.0	209.1	181.1	160.2
135°	334.5	353.1	334.5	316.1	311.4	281.4	241.3	221.2	208.9	184.1	165.5
137.5°	316.2	331.3	316.2	300.9	297.2	271.8	237.9	220.9	210.1	188.5	172.3
140°	303.4	317.6	303.4	289.3	285.7	263.8	234.5	219.8	210.3	191.3	177.0
142.5°	292.9	305.2	292.9	280.8	277.7	258.5	232.7	219.8	211.0	193.5	180.3
145°	277.2	286.5	277.2	267.9	265.7	249.9	228.8	218.3	211.0	196.5	185.5
147.5°	265.2	272.8	265.2	257.5	255.6	243.1	226.6	218.3	212.5	200.9	192.1
150°	257.6	263.8	257.6	251.3	249.8	239.3	225.4	218.3	213.3	203.1	195.5
152.5°	251.1	255.8	251.1	246.4	245.2	236.2	224.3	218.3	213.8	204.6	197.7
155°	243.5	246.7	243.5	240.5	239.7	232.6	223.1	218.3	214.9	207.9	202.6
157.5°	237.7	239.9	237.7	235.5	234.9	229.4	222.0	218.3	216.0	211.1	207.5
160°	234.2	235.4	234.2	232.9	232.6	227.8	221.5	218.3	216.5	212.6	209.8
162.5°	231.9	233.1	231.9	230.7	230.4	226.4	221.0	218.3	217.0	214.2	212.1
165°	228.5	229.8	228.5	227.2	226.9	224.1	220.2	218.3	217.8	216.5	215.5
167.5°	226.2	226.6	226.2	225.6	225.5	223.6	221.1	219.8	219.3	218.2	217.5
170°	225.5	225.5	225.5	225.5	225.5	223.6	221.1	219.8	219.8	219.7	219.6
172.5°	223.7	223.3	223.7	224.2	224.3	222.8	220.8	219.8	219.8	219.8	219.8
175°	222.7	222.7	222.7	222.7	222.7	221.7	220.4	219.8	220.1	220.7	221.2
177.5°	221.7	221.2	221.7	222.3	222.4	221.6	220.6	220.1	220.3	220.8	221.2
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P933919

CATALOG NUMBER: SQ4-FA-025U-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°	3.9	2.7	1.5	2.7	3.9	4.1	6.5	9.7	11.3	10.0	7.5
92.5°	26.1	16.0	5.9	16.0	26.1	28.7	40.3	55.8	63.5	55.6	39.9
95°	51.2	32.7	14.2	32.7	51.2	55.8	99.1	156.8	185.6	165.7	125.7
97.5°	57.2	40.9	24.6	40.9	57.2	61.3	133.5	229.7	277.8	265.2	240.0
100°	62.2	47.4	32.7	47.4	62.2	65.9	146.0	252.8	306.2	307.1	308.9
102.5°	67.1	53.4	39.5	53.4	67.1	70.5	151.8	260.0	314.2	330.3	362.5
105°	74.4	62.7	51.1	62.7	74.4	77.4	156.0	260.8	313.3	349.4	421.6
107.5°	84.7	73.8	62.9	73.8	84.7	87.4	156.8	249.3	295.5	345.9	446.6
110°	90.6	80.8	70.9	80.8	90.6	93.1	155.6	239.0	280.7	337.0	449.5



TEST NUMBER: P933919

CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	97.5	88.2	78.8	88.2	97.5	99.9	155.6	230.0	267.2	324.8	440.0
115°	108.0	99.4	90.7	99.4	108.0	110.2	157.1	219.6	251.0	306.5	417.4
117.5°	118.1	110.3	102.5	110.3	118.1	120.0	160.0	213.2	239.9	290.0	390.1
120°	124.0	116.7	109.3	116.7	124.0	125.9	162.4	211.1	235.4	281.2	372.7
122.5°	130.8	123.4	115.9	123.4	130.8	132.7	165.8	210.0	232.0	273.2	355.6
125°	139.8	133.0	126.2	133.0	139.8	141.5	170.4	209.1	228.3	263.3	333.4
127.5°	148.2	141.3	134.5	141.3	148.2	149.9	175.0	208.5	225.2	255.2	315.4
130°	153.6	146.3	138.9	146.3	153.6	155.5	178.3	208.8	224.0	250.8	304.2
132.5°	158.3	151.0	143.6	151.0	158.3	160.2	181.1	209.1	223.0	246.9	294.8
135°	163.8	157.1	150.4	157.1	163.8	165.5	184.1	208.9	221.2	241.3	281.4
137.5°	170.6	164.0	157.4	164.0	170.6	172.3	188.5	210.1	220.9	237.9	271.8
140°	175.4	169.2	163.1	169.2	175.4	177.0	191.3	210.3	219.8	234.5	263.8
142.5°	178.9	173.2	167.6	173.2	178.9	180.3	193.5	211.0	219.8	232.7	258.5
145°	184.3	179.3	174.4	179.3	184.3	185.5	196.5	211.0	218.3	228.8	249.9
147.5°	190.9	186.0	181.2	186.0	190.9	192.1	200.9	212.5	218.3	226.6	243.1
150°	194.4	190.0	185.6	190.0	194.4	195.5	203.1	213.3	218.3	225.4	239.3
152.5°	196.9	193.5	190.3	193.5	196.9	197.7	204.6	213.8	218.3	224.3	236.2
155°	202.0	199.6	197.1	199.6	202.0	202.6	207.9	214.9	218.3	223.1	232.6
157.5°	206.9	204.5	202.1	204.5	206.9	207.5	211.1	216.0	218.3	222.0	229.4
160°	209.3	207.5	205.6	207.5	209.3	209.8	212.6	216.5	218.3	221.5	227.8
162.5°	211.7	210.3	209.0	210.3	211.7	212.1	214.2	217.0	218.3	221.0	226.4
165°	215.2	213.9	212.7	213.9	215.2	215.5	216.5	217.8	218.3	220.2	224.1
167.5°	217.3	216.7	216.1	216.7	217.3	217.5	218.2	219.3	219.8	221.1	223.6
170°	219.5	218.9	218.3	218.9	219.5	219.6	219.7	219.8	219.8	221.1	223.6
172.5°	219.8	219.6	219.5	219.6	219.8	219.8	219.8	219.8	219.8	220.8	222.8
175°	221.2	221.2	221.2	221.2	221.2	221.2	220.7	220.1	219.8	220.4	221.7
177.5°	221.2	221.2	221.2	221.2	221.2	221.2	220.8	220.3	220.1	220.6	221.6
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P933919

CATALOG NUMBER: SQ4-FA-025U-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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.3	9.7
92.5°	28.2	27.1	22.5	18.1	22.5	27.1	28.2	39.9	55.6	63.5	55.8
95°	95.7	92.4	78.7	65.2	78.7	92.4	95.7	125.7	165.7	185.6	156.8
97.5°	221.0	214.6	188.7	162.8	188.7	214.6	221.0	240.0	265.2	277.8	229.7
100°	310.3	302.6	271.9	241.1	271.9	302.6	310.3	308.9	307.1	306.2	252.8
102.5°	386.7	380.1	353.7	327.3	353.7	380.1	386.7	362.5	330.3	314.2	260.0
105°	475.7	472.2	458.0	443.8	458.0	472.2	475.7	421.6	349.4	313.3	260.8
107.5°	522.1	522.9	526.3	529.8	526.3	522.9	522.1	446.6	345.9	295.5	249.3
110°	533.9	537.6	552.4	567.2	552.4	537.6	533.9	449.5	337.0	280.7	239.0



TEST NUMBER: P933919

CATALOG NUMBER: SQ4-FA-025U-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°	526.3	531.9	554.7	577.4	554.7	531.9	526.3	440.0	324.8	267.2	230.0
115°	500.6	508.5	539.9	571.5	539.9	508.5	500.6	417.4	306.5	251.0	219.6
117.5°	465.2	473.8	508.8	543.7	508.8	473.8	465.2	390.1	290.0	239.9	213.2
120°	441.3	449.8	483.7	517.6	483.7	449.8	441.3	372.7	281.2	235.4	211.1
122.5°	417.4	425.8	459.2	492.6	459.2	425.8	417.4	355.6	273.2	232.0	210.0
125°	385.8	393.5	424.2	455.1	424.2	393.5	385.8	333.4	263.3	228.3	209.1
127.5°	360.4	366.9	392.9	418.9	392.9	366.9	360.4	315.4	255.2	225.2	208.5
130°	344.3	350.3	374.4	398.4	374.4	350.3	344.3	304.2	250.8	224.0	208.8
132.5°	330.7	336.0	357.6	379.1	357.6	336.0	330.7	294.8	246.9	223.0	209.1
135°	311.4	316.1	334.5	353.1	334.5	316.1	311.4	281.4	241.3	221.2	208.9
137.5°	297.2	300.9	316.2	331.3	316.2	300.9	297.2	271.8	237.9	220.9	210.1
140°	285.7	289.3	303.4	317.6	303.4	289.3	285.7	263.8	234.5	219.8	210.3
142.5°	277.7	280.8	292.9	305.2	292.9	280.8	277.7	258.5	232.7	219.8	211.0
145°	265.7	267.9	277.2	286.5	277.2	267.9	265.7	249.9	228.8	218.3	211.0
147.5°	255.6	257.5	265.2	272.8	265.2	257.5	255.6	243.1	226.6	218.3	212.5
150°	249.8	251.3	257.6	263.8	257.6	251.3	249.8	239.3	225.4	218.3	213.3
152.5°	245.2	246.4	251.1	255.8	251.1	246.4	245.2	236.2	224.3	218.3	213.8
155°	239.7	240.5	243.5	246.7	243.5	240.5	239.7	232.6	223.1	218.3	214.9
157.5°	234.9	235.5	237.7	239.9	237.7	235.5	234.9	229.4	222.0	218.3	216.0
160°	232.6	232.9	234.2	235.4	234.2	232.9	232.6	227.8	221.5	218.3	216.5
162.5°	230.4	230.7	231.9	233.1	231.9	230.7	230.4	226.4	221.0	218.3	217.0
165°	226.9	227.2	228.5	229.8	228.5	227.2	226.9	224.1	220.2	218.3	217.8
167.5°	225.5	225.6	226.2	226.6	226.2	225.6	225.5	223.6	221.1	219.8	219.3
170°	225.5	225.5	225.5	225.5	225.5	225.5	225.5	223.6	221.1	219.8	219.8
172.5°	224.3	224.2	223.7	223.3	223.7	224.2	224.3	222.8	220.8	219.8	219.8
175°	222.7	222.7	222.7	222.7	222.7	222.7	222.7	221.7	220.4	219.8	220.1
177.5°	222.4	222.3	221.7	221.2	221.7	222.3	222.4	221.6	220.6	220.1	220.3
180°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P933919

CATALOG NUMBER: SQ4-FA-025U-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°	6.5	4.1	3.9	2.7	1.5
92.5°	40.3	28.7	26.1	16.0	5.9
95°	99.1	55.8	51.2	32.7	14.2
97.5°	133.5	61.3	57.2	40.9	24.6
100°	146.0	65.9	62.2	47.4	32.7
102.5°	151.8	70.5	67.1	53.4	39.5
105°	156.0	77.4	74.4	62.7	51.1
107.5°	156.8	87.4	84.7	73.8	62.9
110°	155.6	93.1	90.6	80.8	70.9



TEST NUMBER: P933919

CATALOG NUMBER: SQ4-FA-025U-075D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	155.6	99.9	97.5	88.2	78.8
115°	157.1	110.2	108.0	99.4	90.7
117.5°	160.0	120.0	118.1	110.3	102.5
120°	162.4	125.9	124.0	116.7	109.3
122.5°	165.8	132.7	130.8	123.4	115.9
125°	170.4	141.5	139.8	133.0	126.2
127.5°	175.0	149.9	148.2	141.3	134.5
130°	178.3	155.5	153.6	146.3	138.9
132.5°	181.1	160.2	158.3	151.0	143.6
135°	184.1	165.5	163.8	157.1	150.4
137.5°	188.5	172.3	170.6	164.0	157.4
140°	191.3	177.0	175.4	169.2	163.1
142.5°	193.5	180.3	178.9	173.2	167.6
145°	196.5	185.5	184.3	179.3	174.4
147.5°	200.9	192.1	190.9	186.0	181.2
150°	203.1	195.5	194.4	190.0	185.6
152.5°	204.6	197.7	196.9	193.5	190.3
155°	207.9	202.6	202.0	199.6	197.1
157.5°	211.1	207.5	206.9	204.5	202.1
160°	212.6	209.8	209.3	207.5	205.6
162.5°	214.2	212.1	211.7	210.3	209.0
165°	216.5	215.5	215.2	213.9	212.7
167.5°	218.2	217.5	217.3	216.7	216.1
170°	219.7	219.6	219.5	218.9	218.3
172.5°	219.8	219.8	219.8	219.6	219.5
175°	220.7	221.2	221.2	221.2	221.2
177.5°	220.8	221.2	221.2	221.2	221.2
180°	221.2	221.2	221.2	221.2	221.2



TEST NUMBER: P933919  
 CATALOG NUMBER: SQ4-FA-025U-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	14.66	15.79	15.38	16.53	17.41	17.48	18.61	18.20	19.35	20.23
	3H	15.16	16.17	15.89	16.92	17.83	18.85	19.86	19.58	20.61	21.52
	4H	15.36	16.31	16.11	17.07	18.00	19.30	20.26	20.05	21.02	21.94
	6H	15.49	16.37	16.26	17.14	18.08	19.60	20.48	20.36	21.25	22.19
	8H	15.50	16.34	16.28	17.13	18.07	19.68	20.52	20.46	21.31	22.25
	12H	15.48	16.28	16.26	17.06	18.03	19.73	20.53	20.51	21.31	22.28
4H	2H	15.72	16.68	16.48	17.44	18.36	17.92	18.88	18.68	19.64	20.57
	3H	16.77	17.57	17.54	18.37	19.31	19.45	20.25	20.22	21.04	21.99
	4H	17.06	17.78	17.84	18.58	19.55	19.99	20.71	20.77	21.51	22.48
	6H	17.20	17.83	18.00	18.65	19.63	20.37	21.00	21.17	21.82	22.80
	8H	17.21	17.80	18.02	18.61	19.61	20.48	21.07	21.29	21.88	22.87
	12H	17.19	17.72	18.02	18.56	19.55	20.55	21.08	21.38	21.91	22.91
8H	4H	17.53	18.12	18.34	18.94	19.93	20.14	20.72	20.94	21.54	22.53
	6H	17.81	18.29	18.64	19.15	20.14	20.58	21.07	21.42	21.93	22.92
	8H	17.85	18.28	18.70	19.14	20.15	20.74	21.17	21.58	22.02	23.03
	12H	17.85	18.23	18.70	19.07	20.14	20.85	21.22	21.69	22.07	23.14
12H	4H	17.55	18.08	18.38	18.92	19.91	20.11	20.64	20.94	21.48	22.48
	6H	17.87	18.30	18.72	19.16	20.17	20.58	21.01	21.43	21.87	22.88
	8H	17.95	18.33	18.80	19.17	20.24	20.75	21.13	21.60	21.98	23.05