

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: P934007

Luminaire Tested: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

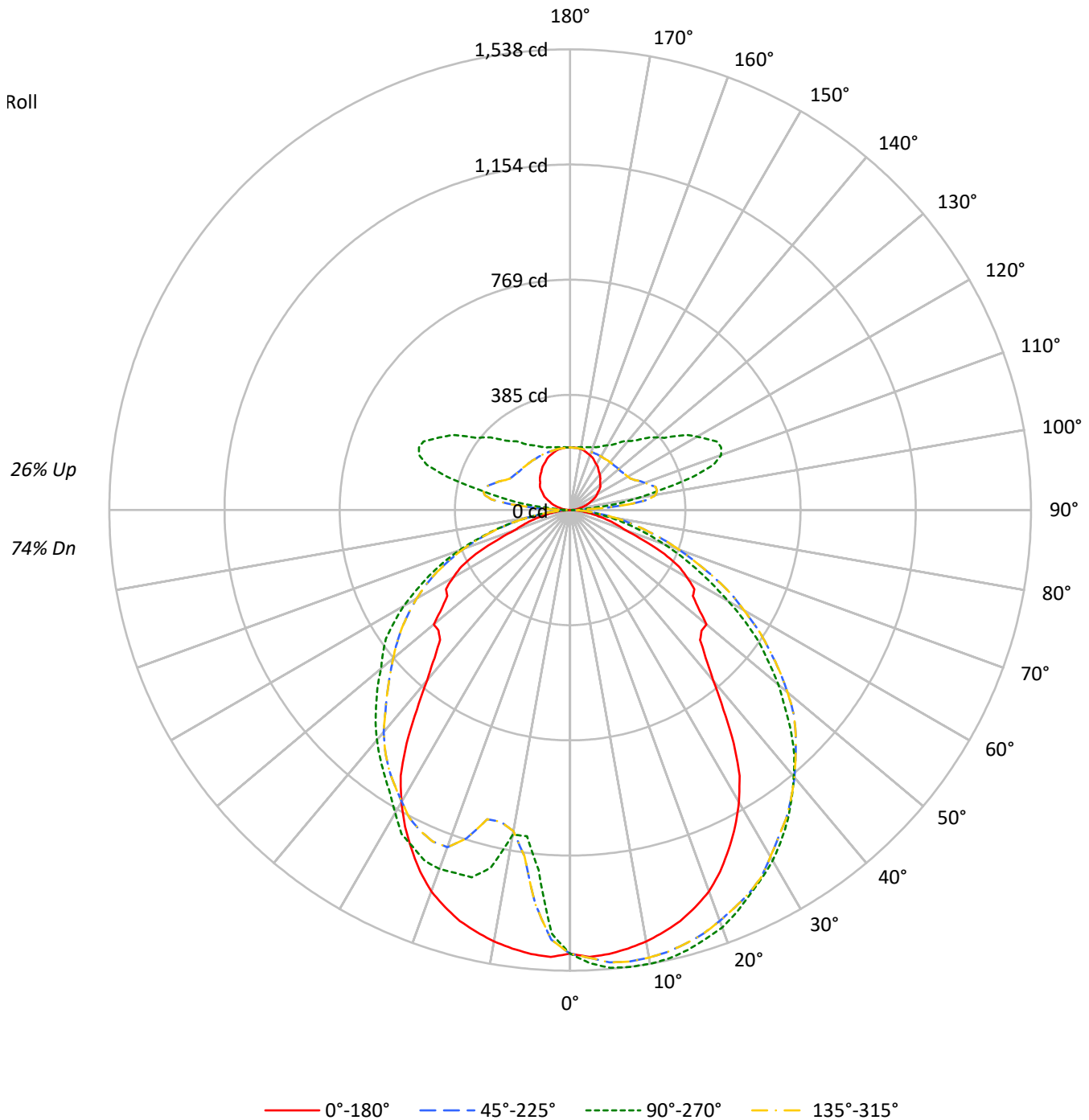
Test Method: LM-79-2019  
Report Number: P934007  
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5195.7 lumens  
Efficiency: N/A  
Efficacy: 115.5 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: 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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### Luminous Intensity Polar Plot





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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9161	9161	9161	9161
5°	9226	9247	9226	7271
10°	9161	9109	9161	6513
15°	9058	8912	9058	7442
20°	8865	8678	8865	7457
25°	8474	8337	8474	7299
30°	7969	8054	7969	6952
35°	7101	7696	7101	6571
40°	5913	7274	5913	6283
45°	5280	6781	5280	5952
50°	5605	6192	5605	5619
55°	5269	5558	5269	5426
60°	5425	4720	5425	4971
65°	4910	3902	4910	4362
70°	3392	3110	3392	3657
75°	2963	2299	2963	2753
80°	2373	1520	2373	1655
85°	1335	804	1335	684

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8098 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.7	2.6
10°-20°	379.5	7.3
20°-30°	586.7	11.3
30°-40°	700.4	13.5
40°-50°	704.5	13.6
50°-60°	613.0	11.8
60°-70°	434.6	8.4
70°-80°	229.9	4.4
80°-90°	58.1	1.1
90°-100°	101.9	2.0
100°-110°	267.9	5.2
110°-120°	277.8	5.3
120°-130°	222.9	4.3
130°-140°	174.9	3.4
140°-150°	134.2	2.6
150°-160°	96.7	1.9
160°-170°	59.1	1.1
170°-180°	20.0	0.4
0°-30°	1099.9	21.2
0°-40°	1800.3	34.6
0°-60°	3117.8	60.0
0°-90°	3840.4	73.9
90°-120°	647.6	12.5
90°-150°	1179.6	22.7
90°-180°	1355.0	26.1
0°-180°	5195.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1481	1481	1481	1481	1481	
5°	1488	1534	1488	1206	1488	141
15°	1421	1520	1421	1269	1421	400
25°	1251	1418	1251	1241	1251	574
35°	951	1265	951	1080	951	589
45°	614	1042	614	915	614	492
55°	500	769	500	751	500	460
65°	347	464	347	518	347	332
75°	132	220	132	263	132	138
85°	22	56	22	48	22	30
90°	1	5	1	5	1	2
95°	13	62	13	62	13	15
105°	48	420	48	420	48	51
115°	86	540	86	540	86	85
125°	119	430	119	430	119	106
135°	142	334	142	334	142	110
145°	165	271	165	271	165	103
155°	186	233	186	233	186	86
165°	201	217	201	217	201	57
175°	209	210	209	210	209	20
180°	209	209	209	209	209	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1493.5	1493.5	1501.9	1504.7	1504.7	1500.5	1496.3	1500.5	1513.1	1517.3	1515.9
5°	1487.9	1499.1	1514.5	1517.3	1520.1	1518.7	1515.9	1518.7	1532.7	1535.5	1536.9
7.5°	1476.7	1497.7	1517.3	1521.5	1525.7	1521.5	1520.1	1522.9	1536.9	1539.7	1539.7
10°	1462.6	1492.1	1514.5	1517.3	1521.5	1517.3	1517.3	1522.9	1536.9	1539.7	1541.1
12.5°	1443.0	1483.7	1504.7	1507.5	1513.1	1511.7	1510.3	1515.9	1529.9	1532.7	1532.7
15°	1420.6	1468.2	1487.9	1490.7	1500.5	1497.7	1497.7	1503.3	1518.7	1522.9	1521.5
17.5°	1389.8	1448.6	1471.1	1475.3	1482.3	1480.9	1482.3	1487.9	1501.9	1504.7	1506.1
20°	1354.8	1422.0	1448.6	1452.8	1459.8	1459.8	1459.8	1466.8	1480.9	1486.5	1486.5
22.5°	1307.1	1394.0	1422.0	1424.8	1433.2	1433.2	1436.0	1445.8	1458.4	1459.8	1459.8
25°	1251.1	1363.2	1387.0	1395.4	1403.8	1408.0	1412.2	1417.8	1422.0	1420.6	1422.0
27.5°	1192.3	1323.9	1354.8	1360.4	1371.6	1375.8	1381.4	1382.8	1384.2	1388.4	1385.6
30°	1126.4	1269.3	1315.5	1321.1	1339.4	1342.2	1336.6	1339.4	1346.4	1349.2	1352.0
32.5°	1052.2	1188.0	1274.9	1287.5	1304.3	1295.9	1294.5	1298.7	1309.9	1309.9	1312.7
35°	951.3	1125.0	1237.1	1248.3	1260.9	1251.1	1256.7	1258.1	1265.1	1269.3	1267.9
37.5°	840.6	1070.4	1197.9	1206.3	1216.1	1203.5	1211.9	1216.1	1221.7	1218.9	1218.9
40°	742.5	984.9	1151.6	1157.2	1165.6	1155.8	1164.2	1167.0	1169.8	1167.0	1165.6
42.5°	669.7	891.0	1102.6	1109.6	1104.0	1111.0	1113.8	1119.4	1115.2	1109.6	1109.6
45°	613.6	865.8	1049.3	1057.8	1049.3	1060.6	1064.8	1064.8	1052.2	1049.3	1047.9
47.5°	595.4	815.4	996.1	996.1	991.9	1005.9	1012.9	1003.1	990.5	986.3	986.3
50°	594.0	759.3	923.3	917.7	937.3	954.1	947.1	937.3	927.5	912.1	912.1
52.5°	539.4	690.7	829.4	850.4	881.2	891.0	879.8	870.0	853.2	846.2	840.6
55°	500.2	619.2	743.9	786.0	818.2	830.8	809.8	800.0	774.8	770.6	767.7
57.5°	491.8	515.6	665.5	718.7	757.9	756.5	743.9	725.7	704.7	700.5	699.1
60°	451.1	372.7	581.4	644.5	685.1	680.9	669.7	652.9	633.3	630.4	627.6
62.5°	409.1	270.4	486.1	557.6	615.0	613.6	603.8	578.6	564.6	557.6	552.0
65°	347.4	227.0	346.0	463.7	546.4	549.2	528.2	510.0	494.6	486.1	484.7
67.5°	264.8	184.9	234.0	386.7	480.5	477.7	451.1	442.7	423.1	418.9	410.5
70°	196.1	123.3	162.5	313.8	416.1	409.1	388.1	378.3	360.1	350.2	344.6
72.5°	162.5	99.5	119.1	243.8	350.2	341.8	323.6	312.4	297.0	288.6	283.0
75°	131.7	105.1	91.1	180.7	284.4	278.8	262.0	250.8	238.2	227.0	228.4
77.5°	96.7	98.1	72.9	133.1	225.6	217.2	207.3	193.3	187.7	176.5	176.5
80°	72.9	77.1	54.6	91.1	162.5	162.5	154.1	144.3	134.5	128.9	128.9
82.5°	49.0	49.0	40.6	57.4	110.7	106.5	100.9	98.1	92.5	89.7	89.7
85°	22.4	28.0	25.2	35.0	60.2	63.0	63.0	60.2	58.8	56.0	57.4
87.5°	7.0	12.6	15.4	19.6	30.8	32.2	33.6	33.6	33.6	35.0	35.0
90°	1.4	2.5	3.6	3.9	6.2	9.2	10.6	9.4	7.1	5.3	5.3
92.5°	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.7	26.6	25.6
95°	13.4	30.9	48.4	52.8	93.7	148.2	175.5	156.6	118.8	90.5	87.3
97.5°	23.3	38.7	54.1	57.9	126.2	217.2	262.6	250.7	226.9	208.9	202.9
100°	30.9	44.8	58.8	62.3	138.0	239.0	289.4	290.3	292.1	293.4	286.1
102.5°	37.4	50.4	63.4	66.7	143.5	245.8	297.0	312.2	342.7	365.6	359.3
105°	48.3	59.3	70.3	73.1	147.5	246.6	296.2	330.3	398.5	449.7	446.4
107.5°	59.5	69.8	80.0	82.7	148.2	235.6	279.4	327.0	422.2	493.5	494.4
110°	67.1	76.4	85.6	88.0	147.1	225.9	265.3	318.6	425.0	504.7	508.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	74.5	83.4	92.2	94.4	147.1	217.4	252.6	307.0	415.9	497.5	502.9
115°	85.7	94.0	102.1	104.1	148.5	207.6	237.2	289.7	394.6	473.3	480.7
117.5°	96.9	104.2	111.6	113.5	151.2	201.6	226.8	274.1	368.7	439.7	447.9
120°	103.3	110.3	117.2	119.0	153.5	199.6	222.6	265.8	352.3	417.2	425.3
122.5°	109.6	116.7	123.7	125.4	156.7	198.5	219.3	258.3	336.1	394.6	402.6
125°	119.3	125.7	132.2	133.7	161.1	197.6	215.8	248.9	315.1	364.7	372.0
127.5°	127.1	133.6	140.1	141.7	165.4	197.1	212.9	241.3	298.1	340.7	346.9
130°	131.3	138.3	145.2	147.0	168.6	197.4	211.7	237.0	287.6	325.5	331.2
132.5°	135.7	142.7	149.6	151.4	171.2	197.6	210.8	233.4	278.7	312.6	317.7
135°	142.2	148.5	154.9	156.4	174.0	197.4	209.1	228.1	266.0	294.4	298.8
137.5°	148.8	155.0	161.3	162.9	178.2	198.7	208.8	224.9	256.9	280.9	284.5
140°	154.2	160.0	165.8	167.3	180.8	198.8	207.8	221.6	249.4	270.1	273.5
142.5°	158.4	163.7	169.1	170.5	182.9	199.5	207.8	220.0	244.3	262.5	265.4
145°	164.9	169.5	174.2	175.4	185.8	199.5	206.4	216.3	236.2	251.2	253.3
147.5°	171.3	175.9	180.4	181.6	189.9	200.9	206.4	214.3	229.9	241.6	243.4
150°	175.5	179.6	183.8	184.8	192.0	201.7	206.4	213.0	226.2	236.1	237.6
152.5°	179.9	183.0	186.1	186.9	193.4	202.1	206.4	212.0	223.3	231.8	232.9
155°	186.3	188.7	191.0	191.6	196.5	203.1	206.4	210.9	219.9	226.6	227.3
157.5°	191.1	193.3	195.6	196.1	199.6	204.2	206.4	209.9	216.9	222.1	222.7
160°	194.4	196.1	197.8	198.3	201.0	204.6	206.4	209.4	215.4	219.9	220.1
162.5°	197.5	198.8	200.2	200.5	202.5	205.1	206.4	208.9	214.0	217.8	218.1
165°	201.1	202.2	203.4	203.7	204.6	205.9	206.4	208.2	211.8	214.5	214.8
167.5°	204.3	204.8	205.4	205.6	206.3	207.3	207.8	209.0	211.4	213.1	213.2
170°	206.4	207.0	207.5	207.6	207.7	207.8	207.8	209.0	211.4	213.1	213.1
172.5°	207.5	207.6	207.8	207.8	207.8	207.8	207.8	208.7	210.6	212.0	211.9
175°	209.1	209.1	209.1	209.1	208.7	208.1	207.8	208.4	209.6	210.5	210.5
177.5°	209.1	209.1	209.1	209.1	208.7	208.3	208.1	208.6	209.5	210.2	210.2
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1518.7	1514.5	1518.7	1515.9	1517.3	1513.1	1500.5	1496.3	1500.5	1504.7	1504.7
5°	1536.9	1534.1	1536.9	1536.9	1535.5	1532.7	1518.7	1515.9	1518.7	1520.1	1517.3
7.5°	1542.5	1538.3	1542.5	1539.7	1539.7	1536.9	1522.9	1520.1	1521.5	1525.7	1521.5
10°	1542.5	1538.3	1542.5	1541.1	1539.7	1536.9	1522.9	1517.3	1517.3	1521.5	1517.3
12.5°	1535.5	1532.7	1535.5	1532.7	1532.7	1529.9	1515.9	1510.3	1511.7	1513.1	1507.5
15°	1524.3	1520.1	1524.3	1521.5	1522.9	1518.7	1503.3	1497.7	1497.7	1500.5	1490.7
17.5°	1507.5	1501.9	1507.5	1506.1	1504.7	1501.9	1487.9	1482.3	1480.9	1482.3	1475.3
20°	1487.9	1483.7	1487.9	1486.5	1486.5	1480.9	1466.8	1459.8	1459.8	1459.8	1452.8
22.5°	1457.0	1452.8	1457.0	1459.8	1459.8	1458.4	1445.8	1436.0	1433.2	1433.2	1424.8
25°	1422.0	1417.8	1422.0	1422.0	1420.6	1422.0	1417.8	1412.2	1408.0	1403.8	1395.4
27.5°	1388.4	1385.6	1388.4	1385.6	1388.4	1384.2	1382.8	1381.4	1375.8	1371.6	1360.4
30°	1354.8	1352.0	1354.8	1352.0	1349.2	1346.4	1339.4	1336.6	1342.2	1339.4	1321.1
32.5°	1312.7	1309.9	1312.7	1312.7	1309.9	1309.9	1298.7	1294.5	1295.9	1304.3	1287.5
35°	1269.3	1265.1	1269.3	1267.9	1269.3	1265.1	1258.1	1256.7	1251.1	1260.9	1248.3
37.5°	1218.9	1214.7	1218.9	1218.9	1218.9	1221.7	1216.1	1211.9	1203.5	1216.1	1206.3
40°	1167.0	1161.4	1167.0	1165.6	1167.0	1169.8	1167.0	1164.2	1155.8	1165.6	1157.2
42.5°	1108.2	1106.8	1108.2	1109.6	1109.6	1115.2	1119.4	1113.8	1111.0	1104.0	1109.6
45°	1045.1	1042.3	1045.1	1047.9	1049.3	1052.2	1064.8	1064.8	1060.6	1049.3	1057.8
47.5°	977.9	970.9	977.9	986.3	986.3	990.5	1003.1	1012.9	1005.9	991.9	996.1
50°	906.4	907.8	906.4	912.1	912.1	927.5	937.3	947.1	954.1	937.3	917.7
52.5°	836.4	835.0	836.4	840.6	846.2	853.2	870.0	879.8	891.0	881.2	850.4
55°	766.3	769.1	766.3	767.7	770.6	774.8	800.0	809.8	830.8	818.2	786.0
57.5°	696.3	692.1	696.3	699.1	700.5	704.7	725.7	743.9	756.5	757.9	718.7
60°	615.0	609.4	615.0	627.6	630.4	633.3	652.9	669.7	680.9	685.1	644.5
62.5°	543.6	533.8	543.6	552.0	557.6	564.6	578.6	603.8	613.6	615.0	557.6
65°	467.9	463.7	467.9	484.7	486.1	494.6	510.0	528.2	549.2	546.4	463.7
67.5°	399.3	399.3	399.3	410.5	418.9	423.1	442.7	451.1	477.7	480.5	386.7
70°	336.2	334.8	336.2	344.6	350.2	360.1	378.3	388.1	409.1	416.1	313.8
72.5°	276.0	274.6	276.0	283.0	288.6	297.0	312.4	323.6	341.8	350.2	243.8
75°	222.8	220.0	222.8	228.4	227.0	238.2	250.8	262.0	278.8	284.4	180.7
77.5°	170.9	170.9	170.9	176.5	176.5	187.7	193.3	207.3	217.2	225.6	133.1
80°	127.5	126.1	127.5	128.9	128.9	134.5	144.3	154.1	162.5	162.5	91.1
82.5°	89.7	86.9	89.7	89.7	89.7	92.5	98.1	100.9	106.5	110.7	57.4
85°	56.0	56.0	56.0	57.4	56.0	58.8	60.2	63.0	63.0	60.2	35.0
87.5°	36.4	35.0	36.4	35.0	35.0	33.6	33.6	33.6	32.2	30.8	19.6
90°	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.6	9.2	6.2	3.9
92.5°	21.3	17.1	21.3	25.6	26.6	37.7	52.6	60.1	52.8	38.1	27.1
95°	74.4	61.6	74.4	87.3	90.5	118.8	156.6	175.5	148.2	93.7	52.8
97.5°	178.4	153.9	178.4	202.9	208.9	226.9	250.7	262.6	217.2	126.2	57.9
100°	257.0	227.9	257.0	286.1	293.4	292.1	290.3	289.4	239.0	138.0	62.3
102.5°	334.4	309.4	334.4	359.3	365.6	342.7	312.2	297.0	245.8	143.5	66.7
105°	433.0	419.6	433.0	446.4	449.7	398.5	330.3	296.2	246.6	147.5	73.1
107.5°	497.5	500.8	497.5	494.4	493.5	422.2	327.0	279.4	235.6	148.2	82.7
110°	522.2	536.2	522.2	508.2	504.7	425.0	318.6	265.3	225.9	147.1	88.0





TEST NUMBER: P934007

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	524.3	545.8	524.3	502.9	497.5	415.9	307.0	252.6	217.4	147.1	94.4
115°	510.4	540.2	510.4	480.7	473.3	394.6	289.7	237.2	207.6	148.5	104.1
117.5°	481.0	514.0	481.0	447.9	439.7	368.7	274.1	226.8	201.6	151.2	113.5
120°	457.3	489.3	457.3	425.3	417.2	352.3	265.8	222.6	199.6	153.5	119.0
122.5°	434.1	465.7	434.1	402.6	394.6	336.1	258.3	219.3	198.5	156.7	125.4
125°	401.1	430.2	401.1	372.0	364.7	315.1	248.9	215.8	197.6	161.1	133.7
127.5°	371.5	396.0	371.5	346.9	340.7	298.1	241.3	212.9	197.1	165.4	141.7
130°	353.9	376.6	353.9	331.2	325.5	287.6	237.0	211.7	197.4	168.6	147.0
132.5°	338.0	358.4	338.0	317.7	312.6	278.7	233.4	210.8	197.6	171.2	151.4
135°	316.3	333.8	316.3	298.8	294.4	266.0	228.1	209.1	197.4	174.0	156.4
137.5°	298.9	313.2	298.9	284.5	280.9	256.9	224.9	208.8	198.7	178.2	162.9
140°	286.8	300.3	286.8	273.5	270.1	249.4	221.6	207.8	198.8	180.8	167.3
142.5°	276.9	288.5	276.9	265.4	262.5	244.3	220.0	207.8	199.5	182.9	170.5
145°	262.1	270.9	262.1	253.3	251.2	236.2	216.3	206.4	199.5	185.8	175.4
147.5°	250.7	257.9	250.7	243.4	241.6	229.9	214.3	206.4	200.9	189.9	181.6
150°	243.5	249.4	243.5	237.6	236.1	226.2	213.0	206.4	201.7	192.0	184.8
152.5°	237.3	241.8	237.3	232.9	231.8	223.3	212.0	206.4	202.1	193.4	186.9
155°	230.2	233.2	230.2	227.3	226.6	219.9	210.9	206.4	203.1	196.5	191.6
157.5°	224.7	226.8	224.7	222.7	222.1	216.9	209.9	206.4	204.2	199.6	196.1
160°	221.4	222.6	221.4	220.1	219.9	215.4	209.4	206.4	204.6	201.0	198.3
162.5°	219.2	220.3	219.2	218.1	217.8	214.0	208.9	206.4	205.1	202.5	200.5
165°	216.0	217.2	216.0	214.8	214.5	211.8	208.2	206.4	205.9	204.6	203.7
167.5°	213.8	214.3	213.8	213.2	213.1	211.4	209.0	207.8	207.3	206.3	205.6
170°	213.1	213.1	213.1	213.1	213.1	211.4	209.0	207.8	207.8	207.7	207.6
172.5°	211.5	211.1	211.5	211.9	212.0	210.6	208.7	207.8	207.8	207.8	207.8
175°	210.5	210.5	210.5	210.5	210.5	209.6	208.4	207.8	208.1	208.7	209.1
177.5°	209.6	209.1	209.6	210.2	210.2	209.5	208.6	208.1	208.3	208.7	209.1
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



TEST NUMBER: P934007

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1501.9	1493.5	1493.5	1479.5	1473.9	1469.6	1462.6	1441.6	1436.0	1430.4	1438.8
5°	1514.5	1499.1	1487.9	1462.6	1441.6	1433.2	1406.6	1356.2	1322.5	1297.3	1283.3
7.5°	1517.3	1497.7	1476.7	1437.4	1387.0	1364.6	1283.3	1190.9	1165.6	1143.2	1129.2
10°	1514.5	1492.1	1462.6	1403.8	1284.7	1245.5	1164.2	1104.0	1088.6	1084.4	1088.6
12.5°	1504.7	1483.7	1443.0	1345.0	1178.2	1151.6	1104.0	1069.0	1066.2	1073.2	1111.0
15°	1487.9	1468.2	1420.6	1266.5	1119.4	1099.8	1066.2	1053.6	1069.0	1118.0	1231.5
17.5°	1471.1	1448.6	1389.8	1189.4	1074.6	1060.6	1036.7	1062.0	1148.8	1214.7	1252.5
20°	1448.6	1422.0	1354.8	1133.4	1042.3	1029.7	1018.5	1132.0	1197.9	1221.7	1242.7
22.5°	1422.0	1394.0	1307.1	1094.2	1008.7	998.9	1005.9	1171.2	1197.9	1214.7	1232.9
25°	1387.0	1363.2	1251.1	1063.4	982.1	970.9	997.5	1167.0	1182.4	1186.6	1223.1
27.5°	1354.8	1323.9	1192.3	1035.3	949.9	945.7	1004.5	1148.8	1160.0	1164.2	1203.5
30°	1315.5	1269.3	1126.4	1005.9	916.3	914.9	1005.9	1126.4	1123.6	1134.8	1174.0
32.5°	1274.9	1188.0	1052.2	969.5	884.0	882.6	996.1	1092.8	1090.0	1105.4	1134.8
35°	1237.1	1125.0	951.3	927.5	843.4	844.8	972.3	1053.6	1055.0	1069.0	1087.2
37.5°	1197.9	1070.4	840.6	881.2	804.2	804.2	940.1	1017.1	1014.3	1018.5	1043.7
40°	1151.6	984.9	742.5	821.0	767.7	763.5	900.8	977.9	968.1	966.7	1001.7
42.5°	1102.6	891.0	669.7	741.1	725.7	720.1	853.2	930.3	912.1	916.3	961.1
45°	1049.3	865.8	613.6	626.2	682.3	678.1	801.4	875.6	863.0	874.2	920.5
47.5°	996.1	815.4	595.4	519.8	636.1	634.7	743.9	822.4	815.4	826.6	875.6
50°	923.3	759.3	594.0	445.5	584.2	589.8	675.3	770.6	770.6	780.4	832.2
52.5°	829.4	690.7	539.4	403.5	524.0	540.8	615.0	725.7	728.5	738.3	784.6
55°	743.9	619.2	500.2	371.3	452.5	488.9	556.2	679.5	685.1	694.9	736.9
57.5°	665.5	515.6	491.8	333.4	386.7	421.7	504.4	634.7	637.5	645.9	686.5
60°	581.4	372.7	451.1	292.8	329.2	355.9	456.7	581.4	591.2	596.8	631.9
62.5°	486.1	270.4	409.1	264.8	301.2	306.8	417.5	531.0	543.6	547.8	568.8
65°	346.0	227.0	347.4	241.0	271.8	273.2	375.5	479.1	490.4	497.4	512.8
67.5°	234.0	184.9	264.8	218.6	249.4	250.8	334.8	418.9	434.3	439.9	449.7
70°	162.5	123.3	196.1	194.7	224.2	227.0	291.4	364.3	378.3	382.5	388.1
72.5°	119.1	99.5	162.5	175.1	197.5	200.3	246.6	302.6	316.6	320.8	323.6
75°	91.1	105.1	131.7	152.7	168.1	169.5	201.7	246.6	256.4	259.2	260.6
77.5°	72.9	98.1	96.7	123.3	137.3	134.5	158.3	190.5	198.9	198.9	198.9
80°	54.6	77.1	72.9	88.3	100.9	98.1	113.5	135.9	138.7	141.5	140.1
82.5°	40.6	49.0	49.0	56.0	67.2	64.4	75.7	88.3	88.3	88.3	91.1
85°	25.2	28.0	22.4	29.4	37.8	36.4	42.0	47.6	49.0	49.0	46.2
87.5°	15.4	12.6	7.0	11.2	16.8	16.8	19.6	21.0	19.6	19.6	19.6
90°	3.6	2.5	1.4	2.5	3.6	3.9	6.2	9.2	10.6	9.4	7.1
92.5°	24.7	15.1	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.7
95°	48.4	30.9	13.4	30.9	48.4	52.8	93.7	148.2	175.5	156.6	118.8
97.5°	54.1	38.7	23.3	38.7	54.1	57.9	126.2	217.2	262.6	250.7	226.9
100°	58.8	44.8	30.9	44.8	58.8	62.3	138.0	239.0	289.4	290.3	292.1
102.5°	63.4	50.4	37.4	50.4	63.4	66.7	143.5	245.8	297.0	312.2	342.7
105°	70.3	59.3	48.3	59.3	70.3	73.1	147.5	246.6	296.2	330.3	398.5
107.5°	80.0	69.8	59.5	69.8	80.0	82.7	148.2	235.6	279.4	327.0	422.2
110°	85.6	76.4	67.1	76.4	85.6	88.0	147.1	225.9	265.3	318.6	425.0



TEST NUMBER: P934007

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	92.2	83.4	74.5	83.4	92.2	94.4	147.1	217.4	252.6	307.0	415.9
115°	102.1	94.0	85.7	94.0	102.1	104.1	148.5	207.6	237.2	289.7	394.6
117.5°	111.6	104.2	96.9	104.2	111.6	113.5	151.2	201.6	226.8	274.1	368.7
120°	117.2	110.3	103.3	110.3	117.2	119.0	153.5	199.6	222.6	265.8	352.3
122.5°	123.7	116.7	109.6	116.7	123.7	125.4	156.7	198.5	219.3	258.3	336.1
125°	132.2	125.7	119.3	125.7	132.2	133.7	161.1	197.6	215.8	248.9	315.1
127.5°	140.1	133.6	127.1	133.6	140.1	141.7	165.4	197.1	212.9	241.3	298.1
130°	145.2	138.3	131.3	138.3	145.2	147.0	168.6	197.4	211.7	237.0	287.6
132.5°	149.6	142.7	135.7	142.7	149.6	151.4	171.2	197.6	210.8	233.4	278.7
135°	154.9	148.5	142.2	148.5	154.9	156.4	174.0	197.4	209.1	228.1	266.0
137.5°	161.3	155.0	148.8	155.0	161.3	162.9	178.2	198.7	208.8	224.9	256.9
140°	165.8	160.0	154.2	160.0	165.8	167.3	180.8	198.8	207.8	221.6	249.4
142.5°	169.1	163.7	158.4	163.7	169.1	170.5	182.9	199.5	207.8	220.0	244.3
145°	174.2	169.5	164.9	169.5	174.2	175.4	185.8	199.5	206.4	216.3	236.2
147.5°	180.4	175.9	171.3	175.9	180.4	181.6	189.9	200.9	206.4	214.3	229.9
150°	183.8	179.6	175.5	179.6	183.8	184.8	192.0	201.7	206.4	213.0	226.2
152.5°	186.1	183.0	179.9	183.0	186.1	186.9	193.4	202.1	206.4	212.0	223.3
155°	191.0	188.7	186.3	188.7	191.0	191.6	196.5	203.1	206.4	210.9	219.9
157.5°	195.6	193.3	191.1	193.3	195.6	196.1	199.6	204.2	206.4	209.9	216.9
160°	197.8	196.1	194.4	196.1	197.8	198.3	201.0	204.6	206.4	209.4	215.4
162.5°	200.2	198.8	197.5	198.8	200.2	200.5	202.5	205.1	206.4	208.9	214.0
165°	203.4	202.2	201.1	202.2	203.4	203.7	204.6	205.9	206.4	208.2	211.8
167.5°	205.4	204.8	204.3	204.8	205.4	205.6	206.3	207.3	207.8	209.0	211.4
170°	207.5	207.0	206.4	207.0	207.5	207.6	207.7	207.8	207.8	209.0	211.4
172.5°	207.8	207.6	207.5	207.6	207.8	207.8	207.8	207.8	207.8	208.7	210.6
175°	209.1	209.1	209.1	209.1	209.1	209.1	208.7	208.1	207.8	208.4	209.6
177.5°	209.1	209.1	209.1	209.1	209.1	209.1	208.7	208.3	208.1	208.6	209.5
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



TEST NUMBER: P934007  
 CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1429.0	1424.8	1430.4	1415.0	1430.4	1424.8	1429.0	1438.8	1430.4	1436.0	1441.6
5°	1253.9	1246.9	1224.5	1206.3	1224.5	1246.9	1253.9	1283.3	1297.3	1322.5	1356.2
7.5°	1120.8	1115.2	1109.6	1098.4	1109.6	1115.2	1120.8	1129.2	1143.2	1165.6	1190.9
10°	1091.4	1092.8	1101.2	1099.8	1101.2	1092.8	1091.4	1088.6	1084.4	1088.6	1104.0
12.5°	1167.0	1179.6	1225.9	1223.1	1225.9	1179.6	1167.0	1111.0	1073.2	1066.2	1069.0
15°	1253.9	1258.1	1267.9	1269.3	1267.9	1258.1	1253.9	1231.5	1118.0	1069.0	1053.6
17.5°	1262.3	1263.7	1270.7	1270.7	1270.7	1263.7	1262.3	1252.5	1214.7	1148.8	1062.0
20°	1255.3	1258.1	1272.1	1274.9	1272.1	1258.1	1255.3	1242.7	1221.7	1197.9	1132.0
22.5°	1252.5	1258.1	1269.3	1267.9	1269.3	1258.1	1252.5	1232.9	1214.7	1197.9	1171.2
25°	1238.5	1238.5	1239.9	1241.3	1239.9	1238.5	1238.5	1223.1	1186.6	1182.4	1167.0
27.5°	1209.1	1211.9	1220.3	1218.9	1220.3	1211.9	1209.1	1203.5	1164.2	1160.0	1148.8
30°	1182.4	1179.6	1172.6	1167.0	1172.6	1179.6	1182.4	1174.0	1134.8	1123.6	1126.4
32.5°	1137.6	1130.6	1123.6	1119.4	1123.6	1130.6	1137.6	1134.8	1105.4	1090.0	1092.8
35°	1084.4	1085.8	1084.4	1080.2	1084.4	1085.8	1084.4	1087.2	1069.0	1055.0	1053.6
37.5°	1046.5	1049.3	1047.9	1042.3	1047.9	1049.3	1046.5	1043.7	1018.5	1014.3	1017.1
40°	1007.3	1008.7	1007.3	1003.1	1007.3	1008.7	1007.3	1001.7	966.7	968.1	977.9
42.5°	969.5	968.1	963.9	961.1	963.9	968.1	969.5	961.1	916.3	912.1	930.3
45°	926.1	927.5	919.1	914.9	919.1	927.5	926.1	920.5	874.2	863.0	875.6
47.5°	882.6	882.6	875.6	871.4	875.6	882.6	882.6	875.6	826.6	815.4	822.4
50°	836.4	835.0	825.2	823.8	825.2	835.0	836.4	832.2	780.4	770.6	770.6
52.5°	783.2	783.2	784.6	787.4	784.6	783.2	783.2	784.6	738.3	728.5	725.7
55°	736.9	738.3	748.1	750.9	748.1	738.3	736.9	736.9	694.9	685.1	679.5
57.5°	689.3	689.3	696.3	696.3	696.3	689.3	689.3	689.3	686.5	645.9	637.5
60°	634.7	637.5	643.1	641.7	643.1	637.5	634.7	631.9	596.8	591.2	581.4
62.5°	577.2	580.0	581.4	578.6	581.4	580.0	577.2	568.8	547.8	543.6	531.0
65°	517.0	519.8	521.2	518.4	521.2	519.8	517.0	512.8	497.4	490.4	479.1
67.5°	455.3	453.9	452.5	458.1	452.5	453.9	455.3	449.7	439.9	434.3	418.9
70°	392.3	392.3	390.9	393.7	390.9	392.3	392.3	388.1	382.5	378.3	364.3
72.5°	325.0	323.6	329.2	325.0	329.2	323.6	325.0	323.6	320.8	316.6	302.6
75°	259.2	262.0	259.2	263.4	259.2	262.0	259.2	260.6	259.2	256.4	246.6
77.5°	197.5	200.3	197.5	197.5	197.5	200.3	197.5	198.9	198.9	198.9	190.5
80°	140.1	138.7	138.7	137.3	138.7	138.7	140.1	140.1	141.5	138.7	135.9
82.5°	89.7	88.3	88.3	91.1	88.3	88.3	89.7	91.1	88.3	88.3	88.3
85°	49.0	50.4	47.6	47.6	47.6	50.4	49.0	46.2	49.0	49.0	47.6
87.5°	18.2	16.8	16.8	16.8	16.8	16.8	18.2	19.6	19.6	19.6	21.0
90°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.6	9.2
92.5°	26.6	25.6	21.3	17.1	21.3	25.6	26.6	37.7	52.6	60.1	52.8
95°	90.5	87.3	74.4	61.6	74.4	87.3	90.5	118.8	156.6	175.5	148.2
97.5°	208.9	202.9	178.4	153.9	178.4	202.9	208.9	226.9	250.7	262.6	217.2
100°	293.4	286.1	257.0	227.9	257.0	286.1	293.4	292.1	290.3	289.4	239.0
102.5°	365.6	359.3	334.4	309.4	334.4	359.3	365.6	342.7	312.2	297.0	245.8
105°	449.7	446.4	433.0	419.6	433.0	446.4	449.7	398.5	330.3	296.2	246.6
107.5°	493.5	494.4	497.5	500.8	497.5	494.4	493.5	422.2	327.0	279.4	235.6
110°	504.7	508.2	522.2	536.2	522.2	508.2	504.7	425.0	318.6	265.3	225.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	497.5	502.9	524.3	545.8	524.3	502.9	497.5	415.9	307.0	252.6	217.4
115°	473.3	480.7	510.4	540.2	510.4	480.7	473.3	394.6	289.7	237.2	207.6
117.5°	439.7	447.9	481.0	514.0	481.0	447.9	439.7	368.7	274.1	226.8	201.6
120°	417.2	425.3	457.3	489.3	457.3	425.3	417.2	352.3	265.8	222.6	199.6
122.5°	394.6	402.6	434.1	465.7	434.1	402.6	394.6	336.1	258.3	219.3	198.5
125°	364.7	372.0	401.1	430.2	401.1	372.0	364.7	315.1	248.9	215.8	197.6
127.5°	340.7	346.9	371.5	396.0	371.5	346.9	340.7	298.1	241.3	212.9	197.1
130°	325.5	331.2	353.9	376.6	353.9	331.2	325.5	287.6	237.0	211.7	197.4
132.5°	312.6	317.7	338.0	358.4	338.0	317.7	312.6	278.7	233.4	210.8	197.6
135°	294.4	298.8	316.3	333.8	316.3	298.8	294.4	266.0	228.1	209.1	197.4
137.5°	280.9	284.5	298.9	313.2	298.9	284.5	280.9	256.9	224.9	208.8	198.7
140°	270.1	273.5	286.8	300.3	286.8	273.5	270.1	249.4	221.6	207.8	198.8
142.5°	262.5	265.4	276.9	288.5	276.9	265.4	262.5	244.3	220.0	207.8	199.5
145°	251.2	253.3	262.1	270.9	262.1	253.3	251.2	236.2	216.3	206.4	199.5
147.5°	241.6	243.4	250.7	257.9	250.7	243.4	241.6	229.9	214.3	206.4	200.9
150°	236.1	237.6	243.5	249.4	243.5	237.6	236.1	226.2	213.0	206.4	201.7
152.5°	231.8	232.9	237.3	241.8	237.3	232.9	231.8	223.3	212.0	206.4	202.1
155°	226.6	227.3	230.2	233.2	230.2	227.3	226.6	219.9	210.9	206.4	203.1
157.5°	222.1	222.7	224.7	226.8	224.7	222.7	222.1	216.9	209.9	206.4	204.2
160°	219.9	220.1	221.4	222.6	221.4	220.1	219.9	215.4	209.4	206.4	204.6
162.5°	217.8	218.1	219.2	220.3	219.2	218.1	217.8	214.0	208.9	206.4	205.1
165°	214.5	214.8	216.0	217.2	216.0	214.8	214.5	211.8	208.2	206.4	205.9
167.5°	213.1	213.2	213.8	214.3	213.8	213.2	213.1	211.4	209.0	207.8	207.3
170°	213.1	213.1	213.1	213.1	213.1	213.1	213.1	211.4	209.0	207.8	207.8
172.5°	212.0	211.9	211.5	211.1	211.5	211.9	212.0	210.6	208.7	207.8	207.8
175°	210.5	210.5	210.5	210.5	210.5	210.5	210.5	209.6	208.4	207.8	208.1
177.5°	210.2	210.2	209.6	209.1	209.6	210.2	210.2	209.5	208.6	208.1	208.3
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1462.6	1469.6	1473.9	1479.5	1493.5
5°	1406.6	1433.2	1441.6	1462.6	1487.9
7.5°	1283.3	1364.6	1387.0	1437.4	1476.7
10°	1164.2	1245.5	1284.7	1403.8	1462.6
12.5°	1104.0	1151.6	1178.2	1345.0	1443.0
15°	1066.2	1099.8	1119.4	1266.5	1420.6
17.5°	1036.7	1060.6	1074.6	1189.4	1389.8
20°	1018.5	1029.7	1042.3	1133.4	1354.8
22.5°	1005.9	998.9	1008.7	1094.2	1307.1
25°	997.5	970.9	982.1	1063.4	1251.1
27.5°	1004.5	945.7	949.9	1035.3	1192.3
30°	1005.9	914.9	916.3	1005.9	1126.4
32.5°	996.1	882.6	884.0	969.5	1052.2
35°	972.3	844.8	843.4	927.5	951.3
37.5°	940.1	804.2	804.2	881.2	840.6
40°	900.8	763.5	767.7	821.0	742.5
42.5°	853.2	720.1	725.7	741.1	669.7
45°	801.4	678.1	682.3	626.2	613.6
47.5°	743.9	634.7	636.1	519.8	595.4
50°	675.3	589.8	584.2	445.5	594.0
52.5°	615.0	540.8	524.0	403.5	539.4
55°	556.2	488.9	452.5	371.3	500.2
57.5°	504.4	421.7	386.7	333.4	491.8
60°	456.7	355.9	329.2	292.8	451.1
62.5°	417.5	306.8	301.2	264.8	409.1
65°	375.5	273.2	271.8	241.0	347.4
67.5°	334.8	250.8	249.4	218.6	264.8
70°	291.4	227.0	224.2	194.7	196.1
72.5°	246.6	200.3	197.5	175.1	162.5
75°	201.7	169.5	168.1	152.7	131.7
77.5°	158.3	134.5	137.3	123.3	96.7
80°	113.5	98.1	100.9	88.3	72.9
82.5°	75.7	64.4	67.2	56.0	49.0
85°	42.0	36.4	37.8	29.4	22.4
87.5°	19.6	16.8	16.8	11.2	7.0
90°	6.2	3.9	3.6	2.5	1.4
92.5°	38.1	27.1	24.7	15.1	5.6
95°	93.7	52.8	48.4	30.9	13.4
97.5°	126.2	57.9	54.1	38.7	23.3
100°	138.0	62.3	58.8	44.8	30.9
102.5°	143.5	66.7	63.4	50.4	37.4
105°	147.5	73.1	70.3	59.3	48.3
107.5°	148.2	82.7	80.0	69.8	59.5
110°	147.1	88.0	85.6	76.4	67.1



TEST NUMBER: P934007

CATALOG NUMBER: SQ4-FA-025U-075D-B50-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	147.1	94.4	92.2	83.4	74.5
115°	148.5	104.1	102.1	94.0	85.7
117.5°	151.2	113.5	111.6	104.2	96.9
120°	153.5	119.0	117.2	110.3	103.3
122.5°	156.7	125.4	123.7	116.7	109.6
125°	161.1	133.7	132.2	125.7	119.3
127.5°	165.4	141.7	140.1	133.6	127.1
130°	168.6	147.0	145.2	138.3	131.3
132.5°	171.2	151.4	149.6	142.7	135.7
135°	174.0	156.4	154.9	148.5	142.2
137.5°	178.2	162.9	161.3	155.0	148.8
140°	180.8	167.3	165.8	160.0	154.2
142.5°	182.9	170.5	169.1	163.7	158.4
145°	185.8	175.4	174.2	169.5	164.9
147.5°	189.9	181.6	180.4	175.9	171.3
150°	192.0	184.8	183.8	179.6	175.5
152.5°	193.4	186.9	186.1	183.0	179.9
155°	196.5	191.6	191.0	188.7	186.3
157.5°	199.6	196.1	195.6	193.3	191.1
160°	201.0	198.3	197.8	196.1	194.4
162.5°	202.5	200.5	200.2	198.8	197.5
165°	204.6	203.7	203.4	202.2	201.1
167.5°	206.3	205.6	205.4	204.8	204.3
170°	207.7	207.6	207.5	207.0	206.4
172.5°	207.8	207.8	207.8	207.6	207.5
175°	208.7	209.1	209.1	209.1	209.1
177.5°	208.7	209.1	209.1	209.1	209.1
180°	209.1	209.1	209.1	209.1	209.1



TEST NUMBER: P934007  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.46	15.59	15.18	16.33	17.21	17.29	18.41	18.01	19.16	20.04
	3H	14.96	15.97	15.69	16.72	17.64	18.65	19.66	19.39	20.41	21.33
	4H	15.16	16.12	15.92	16.88	17.81	19.11	20.06	19.86	20.82	21.75
	6H	15.30	16.18	16.06	16.95	17.89	19.40	20.28	20.17	21.05	22.00
	8H	15.31	16.14	16.08	16.93	17.88	19.48	20.32	20.26	21.11	22.06
	12H	15.29	16.09	16.07	16.87	17.84	19.53	20.33	20.31	21.12	22.08
4H	2H	15.53	16.48	16.28	17.24	18.17	17.73	18.68	18.49	19.44	20.37
	3H	16.58	17.37	17.35	18.17	19.11	19.26	20.05	20.03	20.85	21.79
	4H	16.87	17.59	17.65	18.38	19.36	19.80	20.52	20.58	21.31	22.29
	6H	17.01	17.63	17.81	18.45	19.43	20.17	20.80	20.98	21.62	22.60
	8H	17.02	17.60	17.82	18.42	19.41	20.29	20.87	21.09	21.69	22.68
	12H	17.00	17.52	17.82	18.36	19.36	20.35	20.88	21.18	21.72	22.72
8H	4H	17.34	17.92	18.14	18.74	19.73	19.94	20.53	20.75	21.34	22.33
	6H	17.61	18.10	18.45	18.95	19.95	20.39	20.87	21.22	21.73	22.72
	8H	17.66	18.09	18.50	18.94	19.95	20.54	20.97	21.39	21.83	22.84
	12H	17.65	18.03	18.50	18.88	19.94	20.65	21.03	21.50	21.88	22.94
12H	4H	17.36	17.88	18.18	18.72	19.72	19.92	20.44	20.74	21.28	22.28
	6H	17.67	18.11	18.52	18.96	19.97	20.39	20.82	21.23	21.67	22.68
	8H	17.75	18.13	18.60	18.98	20.04	20.56	20.94	21.41	21.79	22.85