

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: P934014

Luminaire Tested: SQ4-FA-025U-100D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

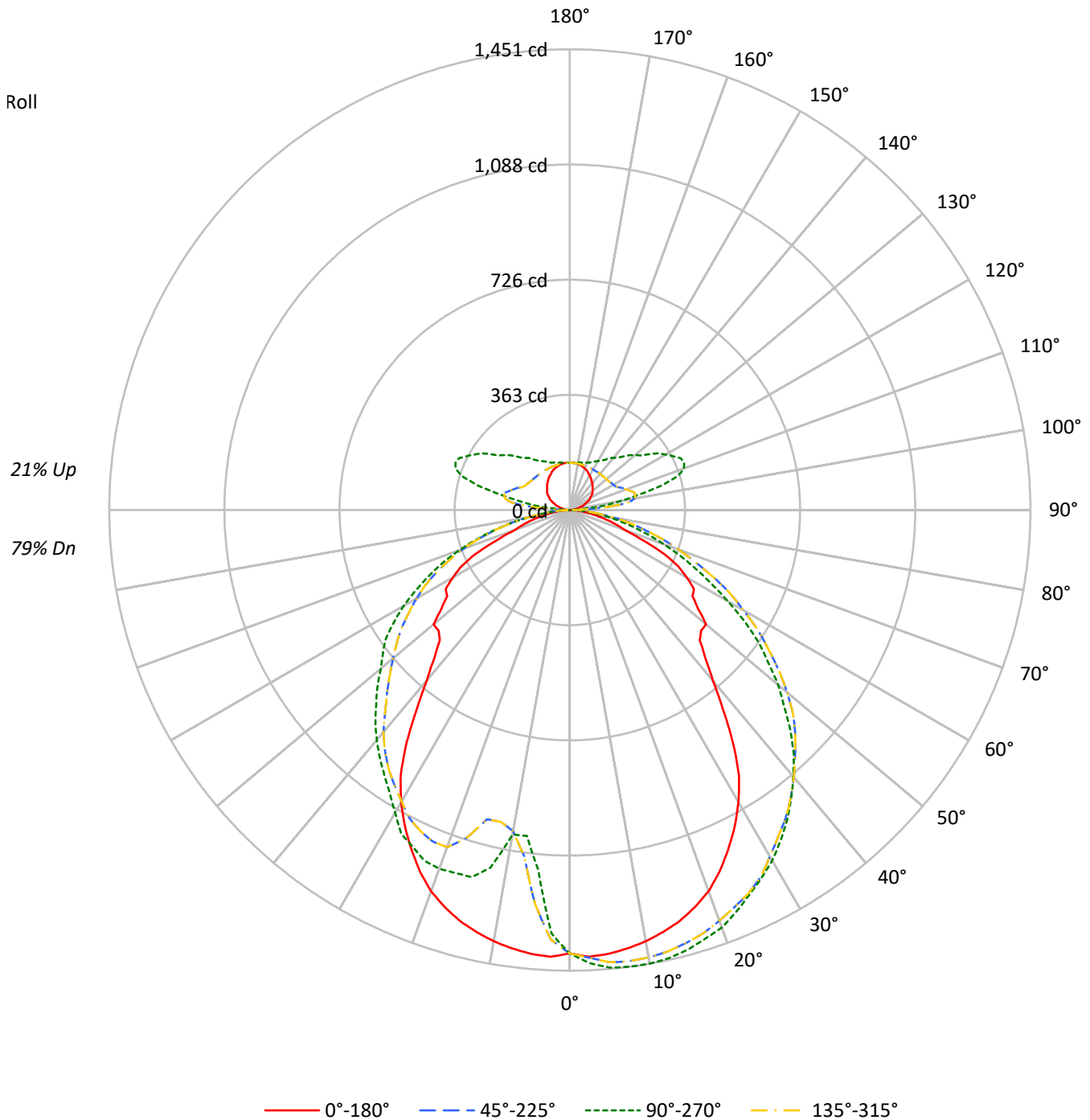
Test Method: LM-79-2019  
Report Number: P934014  
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4589.0 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 38.8  
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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79				79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67				67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56				56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47				47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41				41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35				35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31				31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27				27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24				24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22				22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20				20

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

	0°	90°	180°	270°
0°	12958	12958	12958	12958
5°	13042	13082	13042	10286
10°	12940	12886	12940	9213
15°	12784	12606	12784	10526
20°	12502	12276	12502	10549
25°	11941	11794	11941	10325
30°	11220	11393	11220	9835
35°	9987	10887	9987	9295
40°	8309	10290	8309	8888
45°	7409	9592	7409	8419
50°	7853	8760	7853	7949
55°	7368	7863	7368	7677
60°	7567	6677	7567	7031
65°	6829	5520	6829	6171
70°	4697	4400	4697	5173
75°	4073	3251	4073	3894
80°	3215	2150	3215	2341
85°	1747	1138	1747	967

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11377 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	2.7
10°-20°	357.9	7.8
20°-30°	553.3	12.1
30°-40°	660.5	14.4
40°-50°	664.4	14.5
50°-60°	578.1	12.6
60°-70°	409.9	8.9
70°-80°	216.8	4.7
80°-90°	54.6	1.2
90°-100°	72.7	1.6
100°-110°	191.3	4.2
110°-120°	198.3	4.3
120°-130°	159.0	3.5
130°-140°	124.8	2.7
140°-150°	95.8	2.1
150°-160°	69.0	1.5
160°-170°	42.2	0.9
170°-180°	14.3	0.3
0°-30°	1037.3	22.6
0°-40°	1697.8	37.0
0°-60°	2940.3	64.1
0°-90°	3621.6	78.9
90°-120°	462.3	10.1
90°-150°	842.0	18.3
90°-180°	967.0	21.1
0°-180°	4589.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1396	1396	1396	1396	1396	
5°	1403	1447	1403	1138	1403	133
15°	1340	1434	1340	1197	1340	377
25°	1180	1337	1180	1171	1180	542
35°	897	1193	897	1019	897	555
45°	579	983	579	863	579	464
55°	472	725	472	708	472	433
65°	328	437	328	489	328	313
75°	124	207	124	248	124	131
85°	21	53	21	45	21	29
90°	1	4	1	4	1	2
95°	10	44	10	44	10	11
105°	34	300	34	300	34	37
115°	61	386	61	386	61	60
125°	85	307	85	307	85	76
135°	102	238	102	238	102	79
145°	118	193	118	193	118	74
155°	133	166	133	166	133	61
165°	144	155	144	155	144	40
175°	149	150	149	150	149	14
180°	149	149	149	149	149	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1408.4	1408.4	1416.4	1419.0	1419.0	1415.0	1411.1	1415.0	1426.9	1430.9	1429.6
5°	1403.2	1413.7	1428.3	1430.9	1433.5	1432.2	1429.6	1432.2	1445.4	1448.1	1449.4
7.5°	1392.6	1412.4	1430.9	1434.9	1438.8	1434.9	1433.5	1436.2	1449.4	1452.0	1452.0
10°	1379.4	1407.1	1428.3	1430.9	1434.9	1430.9	1430.9	1436.2	1449.4	1452.0	1453.4
12.5°	1360.9	1399.2	1419.0	1421.7	1426.9	1425.6	1424.3	1429.6	1442.8	1445.4	1445.4
15°	1339.7	1384.7	1403.2	1405.8	1415.0	1412.4	1412.4	1417.7	1432.2	1436.2	1434.9
17.5°	1310.7	1366.2	1387.3	1391.3	1397.9	1396.5	1397.9	1403.2	1416.4	1419.0	1420.3
20°	1277.6	1341.1	1366.2	1370.1	1376.7	1376.7	1376.7	1383.3	1396.5	1401.8	1401.8
22.5°	1232.7	1314.6	1341.1	1343.7	1351.6	1351.6	1354.3	1363.5	1375.4	1376.7	1376.7
25°	1179.9	1285.6	1308.0	1316.0	1323.9	1327.8	1331.8	1337.1	1341.1	1339.7	1341.1
27.5°	1124.4	1248.6	1277.6	1282.9	1293.5	1297.5	1302.7	1304.1	1305.4	1309.3	1306.7
30°	1062.3	1197.0	1240.6	1245.9	1263.1	1265.7	1260.5	1263.1	1269.7	1272.4	1275.0
32.5°	992.2	1120.4	1202.3	1214.2	1230.1	1222.1	1220.8	1224.8	1235.4	1235.4	1238.0
35°	897.1	1061.0	1166.7	1177.2	1189.1	1179.9	1185.1	1186.5	1193.1	1197.0	1195.7
37.5°	792.7	1009.4	1129.7	1137.6	1146.8	1134.9	1142.9	1146.8	1152.1	1149.5	1149.5
40°	700.3	928.8	1086.1	1091.3	1099.3	1090.0	1097.9	1100.6	1103.2	1100.6	1099.3
42.5°	631.6	840.3	1039.8	1046.4	1041.1	1047.7	1050.4	1055.7	1051.7	1046.4	1046.4
45°	578.7	816.5	989.6	997.5	989.6	1000.2	1004.1	1004.1	992.2	989.6	988.3
47.5°	561.5	769.0	939.4	939.4	935.4	948.6	955.3	946.0	934.1	930.2	930.2
50°	560.2	716.1	870.7	865.4	883.9	899.8	893.2	883.9	874.7	860.1	860.1
52.5°	508.7	651.4	782.2	802.0	831.1	840.3	829.7	820.5	804.6	798.0	792.7
55°	471.7	584.0	701.6	741.2	771.6	783.5	763.7	754.4	730.6	726.7	724.0
57.5°	463.8	486.2	627.6	677.8	714.8	713.5	701.6	684.4	664.6	660.6	659.3
60°	425.4	351.4	548.3	607.8	646.1	642.1	631.6	615.7	597.2	594.6	591.9
62.5°	385.8	255.0	458.5	525.9	580.0	578.7	569.5	545.7	532.5	525.9	520.6
65°	327.7	214.0	326.3	437.3	515.3	517.9	498.1	480.9	466.4	458.5	457.1
67.5°	249.7	174.4	220.6	364.7	453.2	450.5	425.4	417.5	399.0	395.0	387.1
70°	185.0	116.3	153.3	296.0	392.4	385.8	366.0	356.7	339.6	330.3	325.0
72.5°	153.3	93.8	112.3	229.9	330.3	322.4	305.2	294.6	280.1	272.2	266.9
75°	124.2	99.1	85.9	170.4	268.2	262.9	247.1	236.5	224.6	214.0	215.4
77.5°	91.2	92.5	68.7	125.5	212.7	204.8	195.5	182.3	177.0	166.5	166.5
80°	68.7	72.7	51.5	85.9	153.3	153.3	145.3	136.1	126.8	121.6	121.6
82.5°	46.2	46.2	38.3	54.2	104.4	100.4	95.1	92.5	87.2	84.6	84.6
85°	21.1	26.4	23.8	33.0	56.8	59.5	59.5	56.8	55.5	52.8	54.2
87.5°	6.6	11.9	14.5	18.5	29.1	30.4	31.7	31.7	31.7	33.0	33.0
90°	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1	3.8	3.8
92.5°	4.0	10.8	17.6	19.3	27.2	37.7	42.9	37.6	27.0	19.0	18.2
95°	9.6	22.1	34.6	37.7	66.9	105.8	125.3	111.8	84.8	64.6	62.3
97.5°	16.6	27.6	38.6	41.4	90.1	155.0	187.5	179.0	161.9	149.1	144.7
100°	22.0	32.0	42.0	44.5	98.5	170.6	206.6	207.2	208.5	209.4	204.2
102.5°	26.6	35.9	45.3	47.6	102.4	175.5	212.0	222.9	244.6	260.9	256.4
105°	34.5	42.4	50.2	52.2	105.3	176.0	211.4	235.8	284.5	321.0	318.6
107.5°	42.5	49.8	57.2	59.0	105.8	168.2	199.4	233.4	301.3	352.3	352.9
110°	47.9	54.5	61.1	62.8	105.0	161.3	189.4	227.4	303.3	360.3	362.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	53.2	59.5	65.8	67.4	105.0	155.2	180.3	219.2	296.9	355.2	359.0
115°	61.2	67.0	72.8	74.3	106.0	148.3	169.4	206.8	281.7	337.8	343.1
117.5°	69.1	74.4	79.7	81.0	108.0	143.9	161.9	195.7	263.2	313.9	319.8
120°	73.7	78.7	83.7	84.9	109.5	142.4	158.8	189.7	251.5	297.8	303.5
122.5°	78.2	83.2	88.2	89.5	111.8	141.6	156.5	184.3	239.9	281.6	287.2
125°	85.1	89.7	94.3	95.5	115.0	141.0	154.0	177.6	224.9	260.3	265.5
127.5°	90.7	95.4	100.0	101.2	118.1	140.6	151.9	172.2	212.8	243.2	247.6
130°	93.7	98.7	103.7	105.0	120.4	140.9	151.1	169.2	205.3	232.4	236.4
132.5°	96.9	101.9	106.9	108.1	122.2	141.0	150.4	166.6	198.9	223.2	226.8
135°	101.5	106.0	110.6	111.7	124.2	140.9	149.2	162.7	189.8	210.1	213.2
137.5°	106.2	110.7	115.2	116.3	127.2	141.7	149.0	160.4	183.3	200.5	203.1
140°	110.1	114.2	118.4	119.4	129.0	141.9	148.3	158.2	178.0	192.8	195.2
142.5°	113.1	116.9	120.7	121.7	130.6	142.4	148.3	157.0	174.4	187.4	189.5
145°	117.7	121.0	124.4	125.2	132.6	142.4	147.3	154.4	168.6	179.3	180.9
147.5°	122.3	125.5	128.8	129.6	135.5	143.4	147.3	152.9	164.1	172.5	173.8
150°	125.3	128.2	131.2	131.9	137.0	143.9	147.3	152.0	161.5	168.6	169.6
152.5°	128.4	130.6	132.8	133.4	138.0	144.2	147.3	151.3	159.4	165.5	166.3
155°	133.0	134.6	136.3	136.7	140.2	144.9	147.3	150.5	157.0	161.8	162.3
157.5°	136.4	138.0	139.6	140.0	142.4	145.7	147.3	149.8	154.8	158.5	158.9
160°	138.7	139.9	141.2	141.5	143.4	146.0	147.3	149.4	153.7	156.9	157.1
162.5°	141.0	141.9	142.9	143.1	144.5	146.4	147.3	149.1	152.7	155.4	155.6
165°	143.5	144.3	145.2	145.4	146.0	146.9	147.3	148.6	151.2	153.1	153.3
167.5°	145.8	146.2	146.6	146.7	147.2	147.9	148.3	149.1	150.8	152.1	152.2
170°	147.3	147.7	148.1	148.2	148.2	148.3	148.3	149.1	150.8	152.1	152.1
172.5°	148.1	148.2	148.3	148.3	148.3	148.3	148.3	149.0	150.3	151.3	151.2
175°	149.2	149.2	149.2	149.2	148.9	148.5	148.3	148.7	149.6	150.2	150.2
177.5°	149.2	149.2	149.2	149.2	149.0	148.7	148.5	148.8	149.5	150.0	149.9
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1432.2	1428.3	1432.2	1429.6	1430.9	1426.9	1415.0	1411.1	1415.0	1419.0	1419.0
5°	1449.4	1446.8	1449.4	1449.4	1448.1	1445.4	1432.2	1429.6	1432.2	1433.5	1430.9
7.5°	1454.7	1450.7	1454.7	1452.0	1452.0	1449.4	1436.2	1433.5	1434.9	1438.8	1434.9
10°	1454.7	1450.7	1454.7	1453.4	1452.0	1449.4	1436.2	1430.9	1430.9	1434.9	1430.9
12.5°	1448.1	1445.4	1448.1	1445.4	1445.4	1442.8	1429.6	1424.3	1425.6	1426.9	1421.7
15°	1437.5	1433.5	1437.5	1434.9	1436.2	1432.2	1417.7	1412.4	1412.4	1415.0	1405.8
17.5°	1421.7	1416.4	1421.7	1420.3	1419.0	1416.4	1403.2	1397.9	1396.5	1397.9	1391.3
20°	1403.2	1399.2	1403.2	1401.8	1401.8	1396.5	1383.3	1376.7	1376.7	1376.7	1370.1
22.5°	1374.1	1370.1	1374.1	1376.7	1376.7	1375.4	1363.5	1354.3	1351.6	1351.6	1343.7
25°	1341.1	1337.1	1341.1	1341.1	1339.7	1341.1	1337.1	1331.8	1327.8	1323.9	1316.0
27.5°	1309.3	1306.7	1309.3	1306.7	1309.3	1305.4	1304.1	1302.7	1297.5	1293.5	1282.9
30°	1277.6	1275.0	1277.6	1275.0	1272.4	1269.7	1263.1	1260.5	1265.7	1263.1	1245.9
32.5°	1238.0	1235.4	1238.0	1238.0	1235.4	1235.4	1224.8	1220.8	1222.1	1230.1	1214.2
35°	1197.0	1193.1	1197.0	1195.7	1197.0	1193.1	1186.5	1185.1	1179.9	1189.1	1177.2
37.5°	1149.5	1145.5	1149.5	1149.5	1149.5	1152.1	1146.8	1142.9	1134.9	1146.8	1137.6
40°	1100.6	1095.3	1100.6	1099.3	1100.6	1103.2	1100.6	1097.9	1090.0	1099.3	1091.3
42.5°	1045.1	1043.8	1045.1	1046.4	1046.4	1051.7	1055.7	1050.4	1047.7	1041.1	1046.4
45°	985.6	983.0	985.6	988.3	989.6	992.2	1004.1	1004.1	1000.2	989.6	997.5
47.5°	922.2	915.6	922.2	930.2	930.2	934.1	946.0	955.3	948.6	935.4	939.4
50°	854.8	856.2	854.8	860.1	860.1	874.7	883.9	893.2	899.8	883.9	865.4
52.5°	788.8	787.5	788.8	792.7	798.0	804.6	820.5	829.7	840.3	831.1	802.0
55°	722.7	725.4	722.7	724.0	726.7	730.6	754.4	763.7	783.5	771.6	741.2
57.5°	656.7	652.7	656.7	659.3	660.6	664.6	684.4	701.6	713.5	714.8	677.8
60°	580.0	574.7	580.0	591.9	594.6	597.2	615.7	631.6	642.1	646.1	607.8
62.5°	512.6	503.4	512.6	520.6	525.9	532.5	545.7	569.5	578.7	580.0	525.9
65°	441.3	437.3	441.3	457.1	458.5	466.4	480.9	498.1	517.9	515.3	437.3
67.5°	376.6	376.6	376.6	387.1	395.0	399.0	417.5	425.4	450.5	453.2	364.7
70°	317.1	315.8	317.1	325.0	330.3	339.6	356.7	366.0	385.8	392.4	296.0
72.5°	260.3	259.0	260.3	266.9	272.2	280.1	294.6	305.2	322.4	330.3	229.9
75°	210.1	207.4	210.1	215.4	214.0	224.6	236.5	247.1	262.9	268.2	170.4
77.5°	161.2	161.2	161.2	166.5	166.5	177.0	182.3	195.5	204.8	212.7	125.5
80°	120.2	118.9	120.2	121.6	121.6	126.8	136.1	145.3	153.3	153.3	85.9
82.5°	84.6	81.9	84.6	84.6	84.6	87.2	92.5	95.1	100.4	104.4	54.2
85°	52.8	52.8	52.8	54.2	52.8	55.5	56.8	59.5	59.5	56.8	33.0
87.5°	34.4	33.0	34.4	33.0	33.0	31.7	31.7	31.7	30.4	29.1	18.5
90°	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5	4.4	2.8
92.5°	15.2	12.2	15.2	18.2	19.0	27.0	37.6	42.9	37.7	27.2	19.3
95°	53.2	44.0	53.2	62.3	64.6	84.8	111.8	125.3	105.8	66.9	37.7
97.5°	127.3	109.9	127.3	144.7	149.1	161.9	179.0	187.5	155.0	90.1	41.4
100°	183.5	162.7	183.5	204.2	209.4	208.5	207.2	206.6	170.6	98.5	44.5
102.5°	238.6	220.8	238.6	256.4	260.9	244.6	222.9	212.0	175.5	102.4	47.6
105°	309.1	299.5	309.1	318.6	321.0	284.5	235.8	211.4	176.0	105.3	52.2
107.5°	355.2	357.5	355.2	352.9	352.3	301.3	233.4	199.4	168.2	105.8	59.0
110°	372.7	382.7	372.7	362.8	360.3	303.3	227.4	189.4	161.3	105.0	62.8





TEST NUMBER: P934014

CATALOG NUMBER: SQ4-FA-025U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	374.3	389.6	374.3	359.0	355.2	296.9	219.2	180.3	155.2	105.0	67.4
115°	364.4	385.6	364.4	343.1	337.8	281.7	206.8	169.4	148.3	106.0	74.3
117.5°	343.3	366.9	343.3	319.8	313.9	263.2	195.7	161.9	143.9	108.0	81.0
120°	326.4	349.2	326.4	303.5	297.8	251.5	189.7	158.8	142.4	109.5	84.9
122.5°	309.8	332.4	309.8	287.2	281.6	239.9	184.3	156.5	141.6	111.8	89.5
125°	286.3	307.1	286.3	265.5	260.3	224.9	177.6	154.0	141.0	115.0	95.5
127.5°	265.1	282.6	265.1	247.6	243.2	212.8	172.2	151.9	140.6	118.1	101.2
130°	252.6	268.8	252.6	236.4	232.4	205.3	169.2	151.1	140.9	120.4	105.0
132.5°	241.3	255.8	241.3	226.8	223.2	198.9	166.6	150.4	141.0	122.2	108.1
135°	225.8	238.3	225.8	213.2	210.1	189.8	162.7	149.2	140.9	124.2	111.7
137.5°	213.3	223.6	213.3	203.1	200.5	183.3	160.4	149.0	141.7	127.2	116.3
140°	204.7	214.3	204.7	195.2	192.8	178.0	158.2	148.3	141.9	129.0	119.4
142.5°	197.7	205.9	197.7	189.5	187.4	174.4	157.0	148.3	142.4	130.6	121.7
145°	187.1	193.3	187.1	180.9	179.3	168.6	154.4	147.3	142.4	132.6	125.2
147.5°	178.9	184.1	178.9	173.8	172.5	164.1	152.9	147.3	143.4	135.5	129.6
150°	173.8	178.0	173.8	169.6	168.6	161.5	152.0	147.3	143.9	137.0	131.9
152.5°	169.4	172.6	169.4	166.3	165.5	159.4	151.3	147.3	144.2	138.0	133.4
155°	164.4	166.5	164.4	162.3	161.8	157.0	150.5	147.3	144.9	140.2	136.7
157.5°	160.4	161.9	160.4	158.9	158.5	154.8	149.8	147.3	145.7	142.4	140.0
160°	158.0	158.8	158.0	157.1	156.9	153.7	149.4	147.3	146.0	143.4	141.5
162.5°	156.4	157.2	156.4	155.6	155.4	152.7	149.1	147.3	146.4	144.5	143.1
165°	154.2	155.0	154.2	153.3	153.1	151.2	148.6	147.3	146.9	146.0	145.4
167.5°	152.5	152.9	152.5	152.2	152.1	150.8	149.1	148.3	147.9	147.2	146.7
170°	152.1	152.1	152.1	152.1	152.1	150.8	149.1	148.3	148.3	148.2	148.2
172.5°	150.9	150.6	150.9	151.2	151.3	150.3	149.0	148.3	148.3	148.3	148.3
175°	150.2	150.2	150.2	150.2	150.2	149.6	148.7	148.3	148.5	148.9	149.2
177.5°	149.6	149.2	149.6	149.9	150.0	149.5	148.8	148.5	148.7	149.0	149.2
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



TEST NUMBER: P934014

CATALOG NUMBER: SQ4-FA-025U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1416.4	1408.4	1408.4	1395.2	1389.9	1386.0	1379.4	1359.6	1354.3	1349.0	1356.9
5°	1428.3	1413.7	1403.2	1379.4	1359.6	1351.6	1326.5	1279.0	1247.2	1223.5	1210.3
7.5°	1430.9	1412.4	1392.6	1355.6	1308.0	1286.9	1210.3	1123.1	1099.3	1078.1	1064.9
10°	1428.3	1407.1	1379.4	1323.9	1211.6	1174.6	1097.9	1041.1	1026.6	1022.6	1026.6
12.5°	1419.0	1399.2	1360.9	1268.4	1111.2	1086.1	1041.1	1008.1	1005.5	1012.1	1047.7
15°	1403.2	1384.7	1339.7	1194.4	1055.7	1037.2	1005.5	993.6	1008.1	1054.3	1161.4
17.5°	1387.3	1366.2	1310.7	1121.7	1013.4	1000.2	977.7	1001.5	1083.4	1145.5	1181.2
20°	1366.2	1341.1	1277.6	1068.9	983.0	971.1	960.5	1067.6	1129.7	1152.1	1171.9
22.5°	1341.1	1314.6	1232.7	1031.9	951.3	942.0	948.6	1104.6	1129.7	1145.5	1162.7
25°	1308.0	1285.6	1179.9	1002.8	926.2	915.6	940.7	1100.6	1115.1	1119.1	1153.4
27.5°	1277.6	1248.6	1124.4	976.4	895.8	891.8	947.3	1083.4	1094.0	1097.9	1134.9
30°	1240.6	1197.0	1062.3	948.6	864.1	862.8	948.6	1062.3	1059.6	1070.2	1107.2
32.5°	1202.3	1120.4	992.2	914.3	833.7	832.4	939.4	1030.6	1027.9	1042.5	1070.2
35°	1166.7	1061.0	897.1	874.7	795.4	796.7	916.9	993.6	994.9	1008.1	1025.3
37.5°	1129.7	1009.4	792.7	831.1	758.4	758.4	886.5	959.2	956.6	960.5	984.3
40°	1086.1	928.8	700.3	774.2	724.0	720.1	849.6	922.2	913.0	911.7	944.7
42.5°	1039.8	840.3	631.6	698.9	684.4	679.1	804.6	877.3	860.1	864.1	906.4
45°	989.6	816.5	578.7	590.6	643.4	639.5	755.7	825.8	813.9	824.5	868.1
47.5°	939.4	769.0	561.5	490.2	599.8	598.5	701.6	775.6	769.0	779.5	825.8
50°	870.7	716.1	560.2	420.2	551.0	556.2	636.8	726.7	726.7	735.9	784.8
52.5°	782.2	651.4	508.7	380.5	494.1	510.0	580.0	684.4	687.0	696.3	739.9
55°	701.6	584.0	471.7	350.1	426.8	461.1	524.5	640.8	646.1	655.3	695.0
57.5°	627.6	486.2	463.8	314.5	364.7	397.7	475.6	598.5	601.2	609.1	647.4
60°	548.3	351.4	425.4	276.1	310.5	335.6	430.7	548.3	557.6	562.8	595.9
62.5°	458.5	255.0	385.8	249.7	284.1	289.4	393.7	500.7	512.6	516.6	536.4
65°	326.3	214.0	327.7	227.3	256.3	257.6	354.1	451.9	462.4	469.0	483.6
67.5°	220.6	174.4	249.7	206.1	235.2	236.5	315.8	395.0	409.6	414.9	424.1
70°	153.3	116.3	185.0	183.7	211.4	214.0	274.8	343.5	356.7	360.7	366.0
72.5°	112.3	93.8	153.3	165.2	186.3	188.9	232.5	285.4	298.6	302.6	305.2
75°	85.9	99.1	124.2	144.0	158.5	159.9	190.3	232.5	241.8	244.4	245.7
77.5°	68.7	92.5	91.2	116.3	129.5	126.8	149.3	179.7	187.6	187.6	187.6
80°	51.5	72.7	68.7	83.2	95.1	92.5	107.0	128.2	130.8	133.4	132.1
82.5°	38.3	46.2	46.2	52.8	63.4	60.8	71.3	83.2	83.2	83.2	85.9
85°	23.8	26.4	21.1	27.7	35.7	34.4	39.6	44.9	46.2	46.2	43.6
87.5°	14.5	11.9	6.6	10.6	15.9	15.9	18.5	19.8	18.5	18.5	18.5
90°	2.6	1.8	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1
92.5°	17.6	10.8	4.0	10.8	17.6	19.3	27.2	37.7	42.9	37.6	27.0
95°	34.6	22.1	9.6	22.1	34.6	37.7	66.9	105.8	125.3	111.8	84.8
97.5°	38.6	27.6	16.6	27.6	38.6	41.4	90.1	155.0	187.5	179.0	161.9
100°	42.0	32.0	22.0	32.0	42.0	44.5	98.5	170.6	206.6	207.2	208.5
102.5°	45.3	35.9	26.6	35.9	45.3	47.6	102.4	175.5	212.0	222.9	244.6
105°	50.2	42.4	34.5	42.4	50.2	52.2	105.3	176.0	211.4	235.8	284.5
107.5°	57.2	49.8	42.5	49.8	57.2	59.0	105.8	168.2	199.4	233.4	301.3
110°	61.1	54.5	47.9	54.5	61.1	62.8	105.0	161.3	189.4	227.4	303.3



TEST NUMBER: P934014

CATALOG NUMBER: SQ4-FA-025U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	65.8	59.5	53.2	59.5	65.8	67.4	105.0	155.2	180.3	219.2	296.9
115°	72.8	67.0	61.2	67.0	72.8	74.3	106.0	148.3	169.4	206.8	281.7
117.5°	79.7	74.4	69.1	74.4	79.7	81.0	108.0	143.9	161.9	195.7	263.2
120°	83.7	78.7	73.7	78.7	83.7	84.9	109.5	142.4	158.8	189.7	251.5
122.5°	88.2	83.2	78.2	83.2	88.2	89.5	111.8	141.6	156.5	184.3	239.9
125°	94.3	89.7	85.1	89.7	94.3	95.5	115.0	141.0	154.0	177.6	224.9
127.5°	100.0	95.4	90.7	95.4	100.0	101.2	118.1	140.6	151.9	172.2	212.8
130°	103.7	98.7	93.7	98.7	103.7	105.0	120.4	140.9	151.1	169.2	205.3
132.5°	106.9	101.9	96.9	101.9	106.9	108.1	122.2	141.0	150.4	166.6	198.9
135°	110.6	106.0	101.5	106.0	110.6	111.7	124.2	140.9	149.2	162.7	189.8
137.5°	115.2	110.7	106.2	110.7	115.2	116.3	127.2	141.7	149.0	160.4	183.3
140°	118.4	114.2	110.1	114.2	118.4	119.4	129.0	141.9	148.3	158.2	178.0
142.5°	120.7	116.9	113.1	116.9	120.7	121.7	130.6	142.4	148.3	157.0	174.4
145°	124.4	121.0	117.7	121.0	124.4	125.2	132.6	142.4	147.3	154.4	168.6
147.5°	128.8	125.5	122.3	125.5	128.8	129.6	135.5	143.4	147.3	152.9	164.1
150°	131.2	128.2	125.3	128.2	131.2	131.9	137.0	143.9	147.3	152.0	161.5
152.5°	132.8	130.6	128.4	130.6	132.8	133.4	138.0	144.2	147.3	151.3	159.4
155°	136.3	134.6	133.0	134.6	136.3	136.7	140.2	144.9	147.3	150.5	157.0
157.5°	139.6	138.0	136.4	138.0	139.6	140.0	142.4	145.7	147.3	149.8	154.8
160°	141.2	139.9	138.7	139.9	141.2	141.5	143.4	146.0	147.3	149.4	153.7
162.5°	142.9	141.9	141.0	141.9	142.9	143.1	144.5	146.4	147.3	149.1	152.7
165°	145.2	144.3	143.5	144.3	145.2	145.4	146.0	146.9	147.3	148.6	151.2
167.5°	146.6	146.2	145.8	146.2	146.6	146.7	147.2	147.9	148.3	149.1	150.8
170°	148.1	147.7	147.3	147.7	148.1	148.2	148.2	148.3	148.3	149.1	150.8
172.5°	148.3	148.2	148.1	148.2	148.3	148.3	148.3	148.3	148.3	149.0	150.3
175°	149.2	149.2	149.2	149.2	149.2	149.2	148.9	148.5	148.3	148.7	149.6
177.5°	149.2	149.2	149.2	149.2	149.2	149.2	149.0	148.7	148.5	148.8	149.5
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



TEST NUMBER: P934014  
 CATALOG NUMBER: SQ4-FA-025U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1347.7	1343.7	1349.0	1334.4	1349.0	1343.7	1347.7	1356.9	1349.0	1354.3	1359.6
5°	1182.5	1175.9	1154.8	1137.6	1154.8	1175.9	1182.5	1210.3	1223.5	1247.2	1279.0
7.5°	1057.0	1051.7	1046.4	1035.8	1046.4	1051.7	1057.0	1064.9	1078.1	1099.3	1123.1
10°	1029.2	1030.6	1038.5	1037.2	1038.5	1030.6	1029.2	1026.6	1022.6	1026.6	1041.1
12.5°	1100.6	1112.5	1156.1	1153.4	1156.1	1112.5	1100.6	1047.7	1012.1	1005.5	1008.1
15°	1182.5	1186.5	1195.7	1197.0	1195.7	1186.5	1182.5	1161.4	1054.3	1008.1	993.6
17.5°	1190.4	1191.8	1198.4	1198.4	1198.4	1191.8	1190.4	1181.2	1145.5	1083.4	1001.5
20°	1183.8	1186.5	1199.7	1202.3	1199.7	1186.5	1183.8	1171.9	1152.1	1129.7	1067.6
22.5°	1181.2	1186.5	1197.0	1195.7	1197.0	1186.5	1181.2	1162.7	1145.5	1129.7	1104.6
25°	1168.0	1168.0	1169.3	1170.6	1169.3	1168.0	1168.0	1153.4	1119.1	1115.1	1100.6
27.5°	1140.2	1142.9	1150.8	1149.5	1150.8	1142.9	1140.2	1134.9	1097.9	1094.0	1083.4
30°	1115.1	1112.5	1105.9	1100.6	1105.9	1112.5	1115.1	1107.2	1070.2	1059.6	1062.3
32.5°	1072.8	1066.2	1059.6	1055.7	1059.6	1066.2	1072.8	1070.2	1042.5	1027.9	1030.6
35°	1022.6	1024.0	1022.6	1018.7	1022.6	1024.0	1022.6	1025.3	1008.1	994.9	993.6
37.5°	987.0	989.6	988.3	983.0	988.3	989.6	987.0	984.3	960.5	956.6	959.2
40°	950.0	951.3	950.0	946.0	950.0	951.3	950.0	944.7	911.7	913.0	922.2
42.5°	914.3	913.0	909.0	906.4	909.0	913.0	914.3	906.4	864.1	860.1	877.3
45°	873.3	874.7	866.7	862.8	866.7	874.7	873.3	868.1	824.5	813.9	825.8
47.5°	832.4	832.4	825.8	821.8	825.8	832.4	832.4	825.8	779.5	769.0	775.6
50°	788.8	787.5	778.2	776.9	778.2	787.5	788.8	784.8	735.9	726.7	726.7
52.5°	738.6	738.6	739.9	742.5	739.9	738.6	738.6	739.9	696.3	687.0	684.4
55°	695.0	696.3	705.5	708.2	705.5	696.3	695.0	695.0	655.3	646.1	640.8
57.5°	650.0	650.0	656.7	656.7	656.7	650.0	650.0	647.4	609.1	601.2	598.5
60°	598.5	601.2	606.4	605.1	606.4	601.2	598.5	595.9	562.8	557.6	548.3
62.5°	544.3	547.0	548.3	545.7	548.3	547.0	544.3	536.4	516.6	512.6	500.7
65°	487.5	490.2	491.5	488.9	491.5	490.2	487.5	483.6	469.0	462.4	451.9
67.5°	429.4	428.1	426.8	432.0	426.8	428.1	429.4	424.1	414.9	409.6	395.0
70°	369.9	369.9	368.6	371.3	368.6	369.9	369.9	366.0	360.7	356.7	343.5
72.5°	306.5	305.2	310.5	306.5	310.5	305.2	306.5	305.2	302.6	298.6	285.4
75°	244.4	247.1	244.4	248.4	244.4	247.1	244.4	245.7	244.4	241.8	232.5
77.5°	186.3	188.9	186.3	186.3	186.3	188.9	186.3	187.6	187.6	187.6	179.7
80°	132.1	130.8	130.8	129.5	130.8	130.8	132.1	132.1	133.4	130.8	128.2
82.5°	84.6	83.2	83.2	85.9	83.2	83.2	84.6	85.9	83.2	83.2	83.2
85°	46.2	47.6	44.9	44.9	44.9	47.6	46.2	43.6	46.2	46.2	44.9
87.5°	17.2	15.9	15.9	15.9	15.9	15.9	17.2	18.5	18.5	18.5	19.8
90°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5
92.5°	19.0	18.2	15.2	12.2	15.2	18.2	19.0	27.0	37.6	42.9	37.7
95°	64.6	62.3	53.2	44.0	53.2	62.3	64.6	84.8	111.8	125.3	105.8
97.5°	149.1	144.7	127.3	109.9	127.3	144.7	149.1	161.9	179.0	187.5	155.0
100°	209.4	204.2	183.5	162.7	183.5	204.2	209.4	208.5	207.2	206.6	170.6
102.5°	260.9	256.4	238.6	220.8	238.6	256.4	260.9	244.6	222.9	212.0	175.5
105°	321.0	318.6	309.1	299.5	309.1	318.6	321.0	284.5	235.8	211.4	176.0
107.5°	352.3	352.9	355.2	357.5	355.2	352.9	352.3	301.3	233.4	199.4	168.2
110°	360.3	362.8	372.7	382.7	372.7	362.8	360.3	303.3	227.4	189.4	161.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	355.2	359.0	374.3	389.6	374.3	359.0	355.2	296.9	219.2	180.3	155.2
115°	337.8	343.1	364.4	385.6	364.4	343.1	337.8	281.7	206.8	169.4	148.3
117.5°	313.9	319.8	343.3	366.9	343.3	319.8	313.9	263.2	195.7	161.9	143.9
120°	297.8	303.5	326.4	349.2	326.4	303.5	297.8	251.5	189.7	158.8	142.4
122.5°	281.6	287.2	309.8	332.4	309.8	287.2	281.6	239.9	184.3	156.5	141.6
125°	260.3	265.5	286.3	307.1	286.3	265.5	260.3	224.9	177.6	154.0	141.0
127.5°	243.2	247.6	265.1	282.6	265.1	247.6	243.2	212.8	172.2	151.9	140.6
130°	232.4	236.4	252.6	268.8	252.6	236.4	232.4	205.3	169.2	151.1	140.9
132.5°	223.2	226.8	241.3	255.8	241.3	226.8	223.2	198.9	166.6	150.4	141.0
135°	210.1	213.2	225.8	238.3	225.8	213.2	210.1	189.8	162.7	149.2	140.9
137.5°	200.5	203.1	213.3	223.6	213.3	203.1	200.5	183.3	160.4	149.0	141.7
140°	192.8	195.2	204.7	214.3	204.7	195.2	192.8	178.0	158.2	148.3	141.9
142.5°	187.4	189.5	197.7	205.9	197.7	189.5	187.4	174.4	157.0	148.3	142.4
145°	179.3	180.9	187.1	193.3	187.1	180.9	179.3	168.6	154.4	147.3	142.4
147.5°	172.5	173.8	178.9	184.1	178.9	173.8	172.5	164.1	152.9	147.3	143.4
150°	168.6	169.6	173.8	178.0	173.8	169.6	168.6	161.5	152.0	147.3	143.9
152.5°	165.5	166.3	169.4	172.6	169.4	166.3	165.5	159.4	151.3	147.3	144.2
155°	161.8	162.3	164.4	166.5	164.4	162.3	161.8	157.0	150.5	147.3	144.9
157.5°	158.5	158.9	160.4	161.9	160.4	158.9	158.5	154.8	149.8	147.3	145.7
160°	156.9	157.1	158.0	158.8	158.0	157.1	156.9	153.7	149.4	147.3	146.0
162.5°	155.4	155.6	156.4	157.2	156.4	155.6	155.4	152.7	149.1	147.3	146.4
165°	153.1	153.3	154.2	155.0	154.2	153.3	153.1	151.2	148.6	147.3	146.9
167.5°	152.1	152.2	152.5	152.9	152.5	152.2	152.1	150.8	149.1	148.3	147.9
170°	152.1	152.1	152.1	152.1	152.1	152.1	152.1	150.8	149.1	148.3	148.3
172.5°	151.3	151.2	150.9	150.6	150.9	151.2	151.3	150.3	149.0	148.3	148.3
175°	150.2	150.2	150.2	150.2	150.2	150.2	150.2	149.6	148.7	148.3	148.5
177.5°	150.0	149.9	149.6	149.2	149.6	149.9	150.0	149.5	148.8	148.5	148.7
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1379.4	1386.0	1389.9	1395.2	1408.4
5°	1326.5	1351.6	1359.6	1379.4	1403.2
7.5°	1210.3	1286.9	1308.0	1355.6	1392.6
10°	1097.9	1174.6	1211.6	1323.9	1379.4
12.5°	1041.1	1086.1	1111.2	1268.4	1360.9
15°	1005.5	1037.2	1055.7	1194.4	1339.7
17.5°	977.7	1000.2	1013.4	1121.7	1310.7
20°	960.5	971.1	983.0	1068.9	1277.6
22.5°	948.6	942.0	951.3	1031.9	1232.7
25°	940.7	915.6	926.2	1002.8	1179.9
27.5°	947.3	891.8	895.8	976.4	1124.4
30°	948.6	862.8	864.1	948.6	1062.3
32.5°	939.4	832.4	833.7	914.3	992.2
35°	916.9	796.7	795.4	874.7	897.1
37.5°	886.5	758.4	758.4	831.1	792.7
40°	849.6	720.1	724.0	774.2	700.3
42.5°	804.6	679.1	684.4	698.9	631.6
45°	755.7	639.5	643.4	590.6	578.7
47.5°	701.6	598.5	599.8	490.2	561.5
50°	636.8	556.2	551.0	420.2	560.2
52.5°	580.0	510.0	494.1	380.5	508.7
55°	524.5	461.1	426.8	350.1	471.7
57.5°	475.6	397.7	364.7	314.5	463.8
60°	430.7	335.6	310.5	276.1	425.4
62.5°	393.7	289.4	284.1	249.7	385.8
65°	354.1	257.6	256.3	227.3	327.7
67.5°	315.8	236.5	235.2	206.1	249.7
70°	274.8	214.0	211.4	183.7	185.0
72.5°	232.5	188.9	186.3	165.2	153.3
75°	190.3	159.9	158.5	144.0	124.2
77.5°	149.3	126.8	129.5	116.3	91.2
80°	107.0	92.5	95.1	83.2	68.7
82.5°	71.3	60.8	63.4	52.8	46.2
85°	39.6	34.4	35.7	27.7	21.1
87.5°	18.5	15.9	15.9	10.6	6.6
90°	4.4	2.8	2.6	1.8	1.0
92.5°	27.2	19.3	17.6	10.8	4.0
95°	66.9	37.7	34.6	22.1	9.6
97.5°	90.1	41.4	38.6	27.6	16.6
100°	98.5	44.5	42.0	32.0	22.0
102.5°	102.4	47.6	45.3	35.9	26.6
105°	105.3	52.2	50.2	42.4	34.5
107.5°	105.8	59.0	57.2	49.8	42.5
110°	105.0	62.8	61.1	54.5	47.9



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CATALOG NUMBER: SQ4-FA-025U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	105.0	67.4	65.8	59.5	53.2
115°	106.0	74.3	72.8	67.0	61.2
117.5°	108.0	81.0	79.7	74.4	69.1
120°	109.5	84.9	83.7	78.7	73.7
122.5°	111.8	89.5	88.2	83.2	78.2
125°	115.0	95.5	94.3	89.7	85.1
127.5°	118.1	101.2	100.0	95.4	90.7
130°	120.4	105.0	103.7	98.7	93.7
132.5°	122.2	108.1	106.9	101.9	96.9
135°	124.2	111.7	110.6	106.0	101.5
137.5°	127.2	116.3	115.2	110.7	106.2
140°	129.0	119.4	118.4	114.2	110.1
142.5°	130.6	121.7	120.7	116.9	113.1
145°	132.6	125.2	124.4	121.0	117.7
147.5°	135.5	129.6	128.8	125.5	122.3
150°	137.0	131.9	131.2	128.2	125.3
152.5°	138.0	133.4	132.8	130.6	128.4
155°	140.2	136.7	136.3	134.6	133.0
157.5°	142.4	140.0	139.6	138.0	136.4
160°	143.4	141.5	141.2	139.9	138.7
162.5°	144.5	143.1	142.9	141.9	141.0
165°	146.0	145.4	145.2	144.3	143.5
167.5°	147.2	146.7	146.6	146.2	145.8
170°	148.2	148.2	148.1	147.7	147.3
172.5°	148.3	148.3	148.3	148.2	148.1
175°	148.9	149.2	149.2	149.2	149.2
177.5°	149.0	149.2	149.2	149.2	149.2
180°	149.2	149.2	149.2	149.2	149.2



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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	16.03	17.23	16.69	17.91	18.69	18.83	20.02	19.49	20.70	21.49
	3H	16.53	17.61	17.21	18.30	19.12	20.19	21.26	20.86	21.95	22.77
	4H	16.74	17.75	17.43	18.45	19.29	20.64	21.66	21.33	22.35	23.19
	6H	16.87	17.81	17.58	18.52	19.37	20.93	21.87	21.64	22.58	23.43
	8H	16.88	17.78	17.60	18.51	19.36	21.01	21.91	21.73	22.64	23.49
	12H	16.87	17.72	17.59	18.44	19.32	21.06	21.91	21.78	22.64	23.52
4H	2H	17.09	18.11	17.79	18.81	19.64	19.28	20.29	19.97	20.99	21.83
	3H	18.15	19.00	18.86	19.73	20.59	20.80	21.65	21.51	22.39	23.24
	4H	18.44	19.21	19.17	19.95	20.83	21.34	22.11	22.07	22.85	23.73
	6H	18.59	19.25	19.33	20.02	20.91	21.72	22.38	22.46	23.15	24.04
	8H	18.60	19.22	19.35	19.98	20.89	21.83	22.45	22.58	23.21	24.11
	12H	18.58	19.14	19.35	19.93	20.84	21.89	22.45	22.66	23.24	24.15
8H	4H	18.92	19.54	19.67	20.30	21.20	21.49	22.11	22.24	22.87	23.78
	6H	19.19	19.71	19.97	20.51	21.42	21.93	22.45	22.71	23.25	24.16
	8H	19.24	19.70	20.03	20.50	21.42	22.08	22.54	22.88	23.35	24.27
	12H	19.24	19.64	20.03	20.44	21.42	22.19	22.60	22.99	23.39	24.37
12H	4H	18.94	19.50	19.71	20.28	21.19	21.47	22.03	22.24	22.82	23.72
	6H	19.25	19.71	20.05	20.52	21.44	21.93	22.39	22.73	23.20	24.12
	8H	19.34	19.74	20.13	20.53	21.52	22.11	22.51	22.90	23.30	24.28