

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: P934814

Luminaire Tested: SQ4-FA-075U-100D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

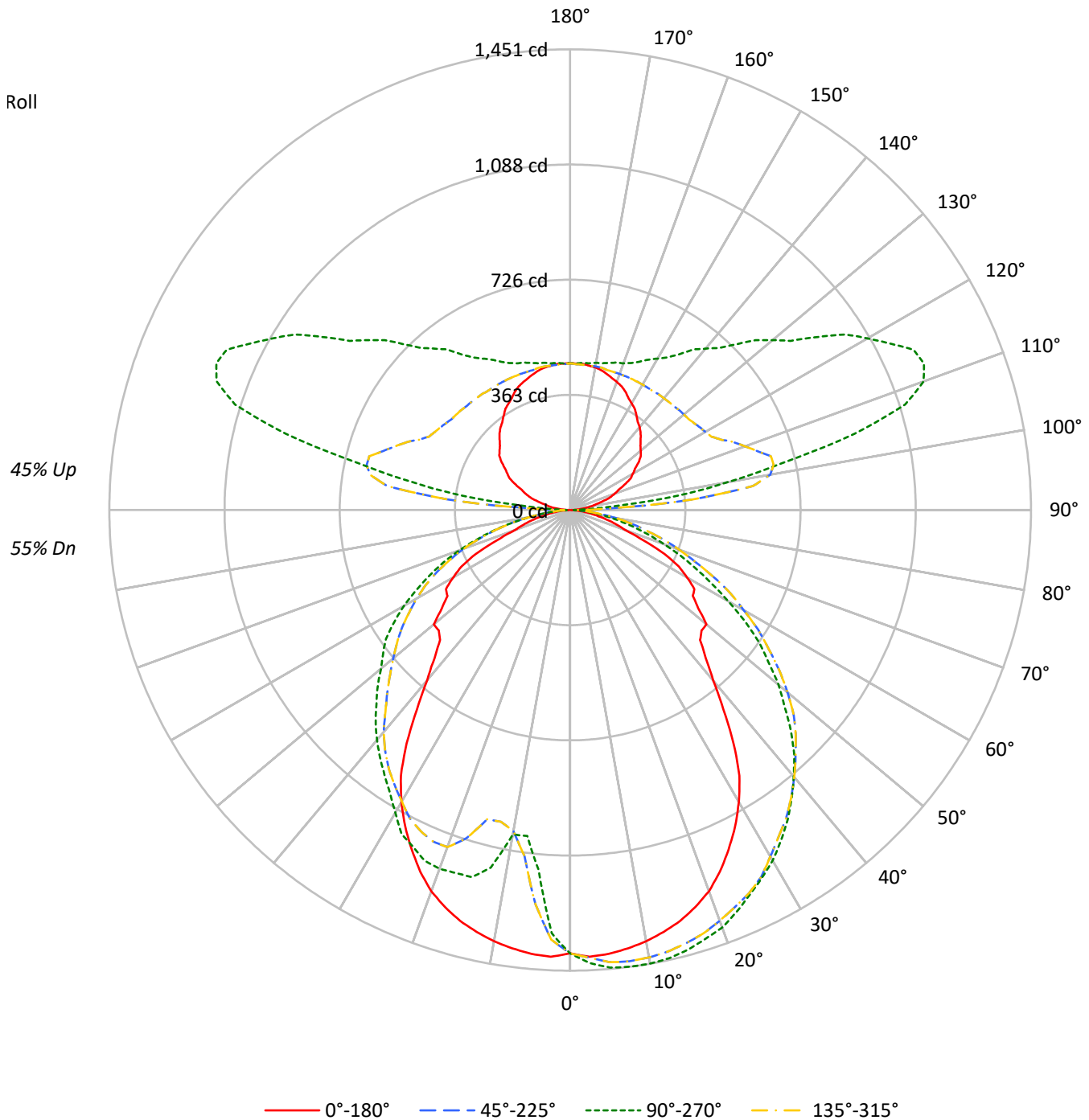
Test Method: LM-79-2019  
Report Number: P934814  
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-100D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6617.0 lumens  
Efficiency: N/A  
Efficacy: 129.2 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: General Diffuse  
  
Input Watts (W): 51.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46		
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39		
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24		
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19		
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17		
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

**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	1.9
10°-20°	357.9	5.4
20°-30°	553.3	8.4
30°-40°	660.5	10.0
40°-50°	664.4	10.0
50°-60°	578.1	8.7
60°-70°	409.9	6.2
70°-80°	216.8	3.3
80°-90°	55.8	0.8
90°-100°	225.2	3.4
100°-110°	591.9	8.9
110°-120°	613.8	9.3
120°-130°	492.3	7.4
130°-140°	386.3	5.8
140°-150°	296.5	4.5
150°-160°	213.5	3.2
160°-170°	130.6	2.0
170°-180°	44.1	0.7
0°-30°	1037.3	15.7
0°-40°	1697.8	25.7
0°-60°	2940.3	44.4
0°-90°	3622.8	54.7
90°-120°	1430.8	21.6
90°-150°	2606.0	39.4
90°-180°	2994.0	45.2
0°-180°	6617.0	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°	3	12	3	12	3	3
95°	30	136	30	136	30	33
105°	107	927	107	927	107	113
115°	189	1194	189	1194	189	187
125°	264	950	264	950	264	234
135°	314	738	314	738	314	243
145°	364	598	364	598	364	228
155°	412	515	412	515	412	189
165°	444	480	444	480	444	125
175°	462	465	462	465	462	44
180°	462	462	462	462	462	



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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°	3.1	5.6	8.1	8.7	13.7	20.3	23.6	21.0	15.7	11.8	11.8
92.5°	12.4	33.5	54.5	59.8	84.1	116.5	132.7	116.3	83.5	58.9	56.6
95°	29.8	68.4	107.0	116.6	207.0	327.5	387.8	346.0	262.5	199.9	192.8
97.5°	51.5	85.5	119.5	128.0	278.8	479.8	580.3	553.9	501.2	461.6	448.1
100°	68.2	99.0	129.9	137.6	304.9	528.0	639.5	641.4	645.3	648.2	632.1
102.5°	82.5	111.3	140.0	147.2	316.9	543.2	656.3	689.9	757.1	807.5	793.7
105°	106.6	131.0	155.4	161.5	325.8	544.9	654.4	729.8	880.5	993.5	986.1
107.5°	131.4	154.2	176.9	182.6	327.5	520.6	617.2	722.3	932.5	1090.2	1092.0
110°	148.2	168.7	189.3	194.4	325.0	499.1	586.2	703.7	938.7	1115.0	1122.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	164.6	184.2	203.7	208.6	325.1	480.4	558.0	678.3	918.8	1099.2	1111.1
115°	189.4	207.4	225.5	230.0	328.1	458.8	524.2	640.1	871.8	1045.6	1062.0
117.5°	213.9	230.3	246.7	250.8	334.2	445.3	500.9	605.5	814.6	971.5	989.7
120°	228.2	243.6	259.0	262.9	339.1	440.8	491.6	587.2	778.3	921.6	939.3
122.5°	242.1	257.7	273.2	277.1	346.2	438.4	484.5	570.5	742.6	871.7	889.2
125°	263.5	277.7	291.9	295.4	355.9	436.5	476.8	549.9	696.1	805.7	821.8
127.5°	280.9	295.2	309.5	313.1	365.5	435.4	470.3	533.1	658.6	752.7	766.3
130°	290.2	305.6	321.0	324.9	372.5	436.0	467.8	523.7	635.4	719.2	731.7
132.5°	299.8	315.2	330.6	334.5	378.2	436.5	465.6	515.6	615.7	690.7	701.9
135°	314.0	328.0	342.1	345.6	384.4	436.1	461.9	503.8	587.6	650.4	660.1
137.5°	328.6	342.5	356.4	359.9	393.7	438.8	461.3	496.7	567.5	620.6	628.5
140°	340.7	353.5	366.3	369.5	399.4	439.2	459.1	489.7	550.8	596.7	604.1
142.5°	350.0	361.8	373.6	376.6	404.1	440.8	459.1	486.0	539.7	580.0	586.4
145°	364.2	374.6	384.9	387.5	410.3	440.8	456.0	478.0	521.9	554.9	559.7
147.5°	378.5	388.5	398.6	401.1	419.4	443.8	456.0	473.3	507.9	533.8	537.8
150°	387.8	396.9	406.0	408.3	424.2	445.4	456.0	470.6	499.8	521.7	524.9
152.5°	397.4	404.3	411.2	412.9	427.3	446.4	456.0	468.5	493.4	512.1	514.5
155°	411.7	416.8	421.8	423.1	434.1	448.7	456.0	465.9	485.7	500.6	502.2
157.5°	422.2	427.2	432.2	433.4	440.9	451.0	456.0	463.7	479.1	490.7	491.8
160°	429.3	433.2	437.0	438.0	444.0	452.0	456.0	462.6	475.9	485.8	486.4
162.5°	436.5	439.4	442.3	443.0	447.3	453.1	456.0	461.6	472.7	481.1	481.7
165°	444.2	446.8	449.4	450.1	452.1	454.7	456.0	460.0	468.0	474.0	474.7
167.5°	451.3	452.5	453.8	454.1	455.8	458.0	459.1	461.7	467.0	470.9	471.2
170°	456.0	457.2	458.5	458.8	458.9	459.0	459.1	461.7	467.0	470.9	470.9
172.5°	458.5	458.8	459.0	459.1	459.1	459.1	459.1	461.2	465.3	468.4	468.2
175°	461.9	461.9	461.9	461.9	461.0	459.7	459.1	460.4	463.0	465.0	465.0
177.5°	461.9	461.9	461.9	461.9	461.2	460.2	459.7	460.7	462.8	464.4	464.1
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



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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°	11.8	11.8	11.8	11.8	11.8	15.7	21.0	23.6	20.3	13.7	8.7
92.5°	47.2	37.8	47.2	56.6	58.9	83.5	116.3	132.7	116.5	84.1	59.8
95°	164.5	136.1	164.5	192.8	199.9	262.5	346.0	387.8	327.5	207.0	116.6
97.5°	394.1	340.1	394.1	448.1	461.6	501.2	553.9	580.3	479.8	278.8	128.0
100°	567.8	503.4	567.8	632.1	648.2	645.3	641.4	639.5	528.0	304.9	137.6
102.5°	738.6	683.5	738.6	793.7	807.5	757.1	689.9	656.3	543.2	316.9	147.2
105°	956.5	926.9	956.5	986.1	993.5	880.5	729.8	654.4	544.9	325.8	161.5
107.5°	1099.2	1106.4	1099.2	1092.0	1090.2	932.5	722.3	617.2	520.6	327.5	182.6
110°	1153.6	1184.5	1153.6	1122.7	1115.0	938.7	703.7	586.2	499.1	325.0	194.4





TEST NUMBER: P934814

CATALOG NUMBER: SQ4-FA-075U-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°	1158.5	1205.9	1158.5	1111.1	1099.2	918.8	678.3	558.0	480.4	325.1	208.6
115°	1127.8	1193.5	1127.8	1062.0	1045.6	871.8	640.1	524.2	458.8	328.1	230.0
117.5°	1062.6	1135.5	1062.6	989.7	971.5	814.6	605.5	500.9	445.3	334.2	250.8
120°	1010.1	1080.9	1010.1	939.3	921.6	778.3	587.2	491.6	440.8	339.1	262.9
122.5°	959.0	1028.9	959.0	889.2	871.7	742.6	570.5	484.5	438.4	346.2	277.1
125°	886.1	950.4	886.1	821.8	805.7	696.1	549.9	476.8	436.5	355.9	295.4
127.5°	820.5	874.8	820.5	766.3	752.7	658.6	533.1	470.3	435.4	365.5	313.1
130°	781.9	832.0	781.9	731.7	719.2	635.4	523.7	467.8	436.0	372.5	324.9
132.5°	746.8	791.7	746.8	701.9	690.7	615.7	515.6	465.6	436.5	378.2	334.5
135°	698.8	737.5	698.8	660.1	650.4	587.6	503.8	461.9	436.1	384.4	345.6
137.5°	660.2	691.9	660.2	628.5	620.6	567.5	496.7	461.3	438.8	393.7	359.9
140°	633.8	663.4	633.8	604.1	596.7	550.8	489.7	459.1	439.2	399.4	369.5
142.5°	611.8	637.3	611.8	586.4	580.0	539.7	486.0	459.1	440.8	404.1	376.6
145°	579.0	598.3	579.0	559.7	554.9	521.9	478.0	456.0	440.8	410.3	387.5
147.5°	553.8	569.8	553.8	537.8	533.8	507.9	473.3	456.0	443.8	419.4	401.1
150°	537.9	550.9	537.9	524.9	521.7	499.8	470.6	456.0	445.4	424.2	408.3
152.5°	524.3	534.1	524.3	514.5	512.1	493.4	468.5	456.0	446.4	427.3	412.9
155°	508.7	515.2	508.7	502.2	500.6	485.7	465.9	456.0	448.7	434.1	423.1
157.5°	496.4	500.9	496.4	491.8	490.7	479.1	463.7	456.0	451.0	440.9	433.4
160°	489.0	491.6	489.0	486.4	485.8	475.9	462.6	456.0	452.0	444.0	438.0
162.5°	484.2	486.7	484.2	481.7	481.1	472.7	461.6	456.0	453.1	447.3	443.0
165°	477.3	479.9	477.3	474.7	474.0	468.0	460.0	456.0	454.7	452.1	450.1
167.5°	472.3	473.4	472.3	471.2	470.9	467.0	461.7	459.1	458.0	455.8	454.1
170°	470.9	470.9	470.9	470.9	470.9	467.0	461.7	459.1	459.0	458.9	458.8
172.5°	467.2	466.2	467.2	468.2	468.4	465.3	461.2	459.1	459.1	459.1	459.1
175°	465.0	465.0	465.0	465.0	465.0	463.0	460.4	459.1	459.7	461.0	461.9
177.5°	463.0	461.9	463.0	464.1	464.4	462.8	460.7	459.7	460.2	461.2	461.9
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



TEST NUMBER: P934814

CATALOG NUMBER: SQ4-FA-075U-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°	8.1	5.6	3.1	5.6	8.1	8.7	13.7	20.3	23.6	21.0	15.7
92.5°	54.5	33.5	12.4	33.5	54.5	59.8	84.1	116.5	132.7	116.3	83.5
95°	107.0	68.4	29.8	68.4	107.0	116.6	207.0	327.5	387.8	346.0	262.5
97.5°	119.5	85.5	51.5	85.5	119.5	128.0	278.8	479.8	580.3	553.9	501.2
100°	129.9	99.0	68.2	99.0	129.9	137.6	304.9	528.0	639.5	641.4	645.3
102.5°	140.0	111.3	82.5	111.3	140.0	147.2	316.9	543.2	656.3	689.9	757.1
105°	155.4	131.0	106.6	131.0	155.4	161.5	325.8	544.9	654.4	729.8	880.5
107.5°	176.9	154.2	131.4	154.2	176.9	182.6	327.5	520.6	617.2	722.3	932.5
110°	189.3	168.7	148.2	168.7	189.3	194.4	325.0	499.1	586.2	703.7	938.7



TEST NUMBER: P934814

CATALOG NUMBER: SQ4-FA-075U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	203.7	184.2	164.6	184.2	203.7	208.6	325.1	480.4	558.0	678.3	918.8
115°	225.5	207.4	189.4	207.4	225.5	230.0	328.1	458.8	524.2	640.1	871.8
117.5°	246.7	230.3	213.9	230.3	246.7	250.8	334.2	445.3	500.9	605.5	814.6
120°	259.0	243.6	228.2	243.6	259.0	262.9	339.1	440.8	491.6	587.2	778.3
122.5°	273.2	257.7	242.1	257.7	273.2	277.1	346.2	438.4	484.5	570.5	742.6
125°	291.9	277.7	263.5	277.7	291.9	295.4	355.9	436.5	476.8	549.9	696.1
127.5°	309.5	295.2	280.9	295.2	309.5	313.1	365.5	435.4	470.3	533.1	658.6
130°	321.0	305.6	290.2	305.6	321.0	324.9	372.5	436.0	467.8	523.7	635.4
132.5°	330.6	315.2	299.8	315.2	330.6	334.5	378.2	436.5	465.6	515.6	615.7
135°	342.1	328.0	314.0	328.0	342.1	345.6	384.4	436.1	461.9	503.8	587.6
137.5°	356.4	342.5	328.6	342.5	356.4	359.9	393.7	438.8	461.3	496.7	567.5
140°	366.3	353.5	340.7	353.5	366.3	369.5	399.4	439.2	459.1	489.7	550.8
142.5°	373.6	361.8	350.0	361.8	373.6	376.6	404.1	440.8	459.1	486.0	539.7
145°	384.9	374.6	364.2	374.6	384.9	387.5	410.3	440.8	456.0	478.0	521.9
147.5°	398.6	388.5	378.5	388.5	398.6	401.1	419.4	443.8	456.0	473.3	507.9
150°	406.0	396.9	387.8	396.9	406.0	408.3	424.2	445.4	456.0	470.6	499.8
152.5°	411.2	404.3	397.4	404.3	411.2	412.9	427.3	446.4	456.0	468.5	493.4
155°	421.8	416.8	411.7	416.8	421.8	423.1	434.1	448.7	456.0	465.9	485.7
157.5°	432.2	427.2	422.2	427.2	432.2	433.4	440.9	451.0	456.0	463.7	479.1
160°	437.0	433.2	429.3	433.2	437.0	438.0	444.0	452.0	456.0	462.6	475.9
162.5°	442.3	439.4	436.5	439.4	442.3	443.0	447.3	453.1	456.0	461.6	472.7
165°	449.4	446.8	444.2	446.8	449.4	450.1	452.1	454.7	456.0	460.0	468.0
167.5°	453.8	452.5	451.3	452.5	453.8	454.1	455.8	458.0	459.1	461.7	467.0
170°	458.5	457.2	456.0	457.2	458.5	458.8	458.9	459.0	459.1	461.7	467.0
172.5°	459.0	458.8	458.5	458.8	459.0	459.1	459.1	459.1	459.1	461.2	465.3
175°	461.9	461.9	461.9	461.9	461.9	461.9	461.0	459.7	459.1	460.4	463.0
177.5°	461.9	461.9	461.9	461.9	461.9	461.9	461.2	460.2	459.7	460.7	462.8
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



TEST NUMBER: P934814  
 CATALOG NUMBER: SQ4-FA-075U-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°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	15.7	21.0	23.6	20.3
92.5°	58.9	56.6	47.2	37.8	47.2	56.6	58.9	83.5	116.3	132.7	116.5
95°	199.9	192.8	164.5	136.1	164.5	192.8	199.9	262.5	346.0	387.8	327.5
97.5°	461.6	448.1	394.1	340.1	394.1	448.1	461.6	501.2	553.9	580.3	479.8
100°	648.2	632.1	567.8	503.4	567.8	632.1	648.2	645.3	641.4	639.5	528.0
102.5°	807.5	793.7	738.6	683.5	738.6	793.7	807.5	757.1	689.9	656.3	543.2
105°	993.5	986.1	956.5	926.9	956.5	986.1	993.5	880.5	729.8	654.4	544.9
107.5°	1090.2	1092.0	1099.2	1106.4	1099.2	1092.0	1090.2	932.5	722.3	617.2	520.6
110°	1115.0	1122.7	1153.6	1184.5	1153.6	1122.7	1115.0	938.7	703.7	586.2	499.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1099.2	1111.1	1158.5	1205.9	1158.5	1111.1	1099.2	918.8	678.3	558.0	480.4
115°	1045.6	1062.0	1127.8	1193.5	1127.8	1062.0	1045.6	871.8	640.1	524.2	458.8
117.5°	971.5	989.7	1062.6	1135.5	1062.6	989.7	971.5	814.6	605.5	500.9	445.3
120°	921.6	939.3	1010.1	1080.9	1010.1	939.3	921.6	778.3	587.2	491.6	440.8
122.5°	871.7	889.2	959.0	1028.9	959.0	889.2	871.7	742.6	570.5	484.5	438.4
125°	805.7	821.8	886.1	950.4	886.1	821.8	805.7	696.1	549.9	476.8	436.5
127.5°	752.7	766.3	820.5	874.8	820.5	766.3	752.7	658.6	533.1	470.3	435.4
130°	719.2	731.7	781.9	832.0	781.9	731.7	719.2	635.4	523.7	467.8	436.0
132.5°	690.7	701.9	746.8	791.7	746.8	701.9	690.7	615.7	515.6	465.6	436.5
135°	650.4	660.1	698.8	737.5	698.8	660.1	650.4	587.6	503.8	461.9	436.1
137.5°	620.6	628.5	660.2	691.9	660.2	628.5	620.6	567.5	496.7	461.3	438.8
140°	596.7	604.1	633.8	663.4	633.8	604.1	596.7	550.8	489.7	459.1	439.2
142.5°	580.0	586.4	611.8	637.3	611.8	586.4	580.0	539.7	486.0	459.1	440.8
145°	554.9	559.7	579.0	598.3	579.0	559.7	554.9	521.9	478.0	456.0	440.8
147.5°	533.8	537.8	553.8	569.8	553.8	537.8	533.8	507.9	473.3	456.0	443.8
150°	521.7	524.9	537.9	550.9	537.9	524.9	521.7	499.8	470.6	456.0	445.4
152.5°	512.1	514.5	524.3	534.1	524.3	514.5	512.1	493.4	468.5	456.0	446.4
155°	500.6	502.2	508.7	515.2	508.7	502.2	500.6	485.7	465.9	456.0	448.7
157.5°	490.7	491.8	496.4	500.9	496.4	491.8	490.7	479.1	463.7	456.0	451.0
160°	485.8	486.4	489.0	491.6	489.0	486.4	485.8	475.9	462.6	456.0	452.0
162.5°	481.1	481.7	484.2	486.7	484.2	481.7	481.1	472.7	461.6	456.0	453.1
165°	474.0	474.7	477.3	479.9	477.3	474.7	474.0	468.0	460.0	456.0	454.7
167.5°	470.9	471.2	472.3	473.4	472.3	471.2	470.9	467.0	461.7	459.1	458.0
170°	470.9	470.9	470.9	470.9	470.9	470.9	470.9	467.0	461.7	459.1	459.0
172.5°	468.4	468.2	467.2	466.2	467.2	468.2	468.4	465.3	461.2	459.1	459.1
175°	465.0	465.0	465.0	465.0	465.0	465.0	465.0	463.0	460.4	459.1	459.7
177.5°	464.4	464.1	463.0	461.9	463.0	464.1	464.4	462.8	460.7	459.7	460.2
180°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9



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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°	13.7	8.7	8.1	5.6	3.1
92.5°	84.1	59.8	54.5	33.5	12.4
95°	207.0	116.6	107.0	68.4	29.8
97.5°	278.8	128.0	119.5	85.5	51.5
100°	304.9	137.6	129.9	99.0	68.2
102.5°	316.9	147.2	140.0	111.3	82.5
105°	325.8	161.5	155.4	131.0	106.6
107.5°	327.5	182.6	176.9	154.2	131.4
110°	325.0	194.4	189.3	168.7	148.2



TEST NUMBER: P934814

CATALOG NUMBER: SQ4-FA-075U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	325.1	208.6	203.7	184.2	164.6
115°	328.1	230.0	225.5	207.4	189.4
117.5°	334.2	250.8	246.7	230.3	213.9
120°	339.1	262.9	259.0	243.6	228.2
122.5°	346.2	277.1	273.2	257.7	242.1
125°	355.9	295.4	291.9	277.7	263.5
127.5°	365.5	313.1	309.5	295.2	280.9
130°	372.5	324.9	321.0	305.6	290.2
132.5°	378.2	334.5	330.6	315.2	299.8
135°	384.4	345.6	342.1	328.0	314.0
137.5°	393.7	359.9	356.4	342.5	328.6
140°	399.4	369.5	366.3	353.5	340.7
142.5°	404.1	376.6	373.6	361.8	350.0
145°	410.3	387.5	384.9	374.6	364.2
147.5°	419.4	401.1	398.6	388.5	378.5
150°	424.2	408.3	406.0	396.9	387.8
152.5°	427.3	412.9	411.2	404.3	397.4
155°	434.1	423.1	421.8	416.8	411.7
157.5°	440.9	433.4	432.2	427.2	422.2
160°	444.0	438.0	437.0	433.2	429.3
162.5°	447.3	443.0	442.3	439.4	436.5
165°	452.1	450.1	449.4	446.8	444.2
167.5°	455.8	454.1	453.8	452.5	451.3
170°	458.9	458.8	458.5	457.2	456.0
172.5°	459.1	459.1	459.0	458.8	458.5
175°	461.0	461.9	461.9	461.9	461.9
177.5°	461.2	461.9	461.9	461.9	461.9
180°	461.9	461.9	461.9	461.9	461.9



TEST NUMBER: P934814  
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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	14.12	15.03	15.04	15.96	17.16	16.92	17.82	17.83	18.76	19.96
	3H	14.60	15.41	15.53	16.36	17.58	18.26	19.07	19.19	20.01	21.24
	4H	14.80	15.56	15.74	16.51	17.75	18.70	19.47	19.64	20.41	21.65
	6H	14.92	15.63	15.87	16.58	17.83	18.98	19.69	19.93	20.64	21.89
	8H	14.92	15.59	15.88	16.56	17.81	19.05	19.72	20.01	20.69	21.94
	12H	14.89	15.53	15.86	16.50	17.77	19.09	19.73	20.05	20.69	21.96
4H	2H	15.15	15.92	16.10	16.87	18.10	17.34	18.10	18.28	19.05	20.29
	3H	16.18	16.82	17.14	17.80	19.05	18.84	19.48	19.79	20.45	21.70
	4H	16.46	17.05	17.43	18.02	19.29	19.36	19.94	20.33	20.92	22.19
	6H	16.59	17.09	17.57	18.09	19.36	19.72	20.22	20.70	21.22	22.49
	8H	16.60	17.07	17.58	18.06	19.34	19.82	20.29	20.80	21.28	22.57
	12H	16.57	16.99	17.57	18.00	19.29	19.88	20.30	20.88	21.31	22.60
8H	4H	16.91	17.38	17.90	18.37	19.66	19.49	19.96	20.47	20.95	22.23
	6H	17.18	17.57	18.18	18.60	19.88	19.92	20.31	20.93	21.34	22.62
	8H	17.22	17.56	18.24	18.58	19.89	20.07	20.41	21.08	21.43	22.73
	12H	17.21	17.51	18.23	18.52	19.87	20.16	20.46	21.18	21.48	22.82
12H	4H	16.92	17.34	17.92	18.35	19.64	19.46	19.88	20.46	20.89	22.18
	6H	17.24	17.58	18.25	18.60	19.90	19.92	20.26	20.93	21.28	22.58
	8H	17.31	17.61	18.32	18.62	19.97	20.07	20.38	21.09	21.39	22.74