

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: P934823

Luminaire Tested: SQ4-FA-075U-100D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

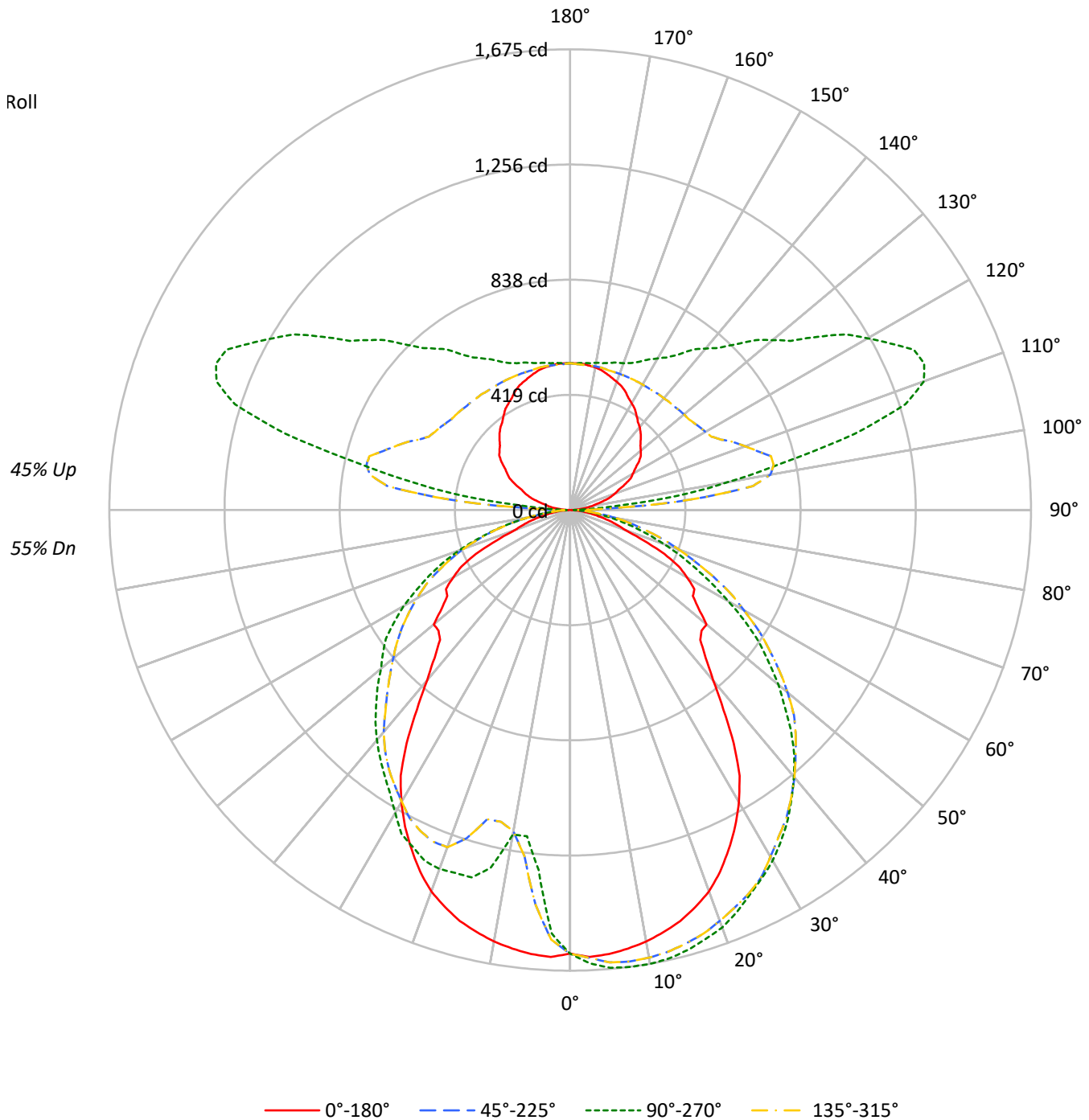
Test Method: LM-79-2019  
Report Number: P934823  
REPORT IS A COMBINATION OF REPORTS P933715 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-100D-927-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7642.2 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 76.8  
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	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°	9977	9977	9977	9977
5°	10048	10071	10048	7920
10°	9978	9921	9978	7093
15°	9865	9706	9865	8105
20°	9656	9452	9656	8121
25°	9229	9080	9229	7950
30°	8680	8772	8680	7572
35°	7734	8381	7734	7157
40°	6441	7923	6441	6843
45°	5752	7386	5752	6482
50°	6105	6745	6105	6120
55°	5739	6054	5739	5911
60°	5908	5141	5908	5414
65°	5349	4250	5349	4751
70°	3694	3387	3694	3982
75°	3229	2503	3229	2999
80°	2581	1656	2581	1802
85°	1455	878	1455	745

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8820 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.6	1.9
10°-20°	413.4	5.4
20°-30°	639.0	8.4
30°-40°	762.8	10.0
40°-50°	767.3	10.0
50°-60°	667.6	8.7
60°-70°	473.4	6.2
70°-80°	250.4	3.3
80°-90°	64.4	0.8
90°-100°	260.0	3.4
100°-110°	683.7	8.9
110°-120°	708.9	9.3
120°-130°	568.6	7.4
130°-140°	446.2	5.8
140°-150°	342.4	4.5
150°-160°	246.6	3.2
160°-170°	150.9	2.0
170°-180°	51.0	0.7
0°-30°	1198.0	15.7
0°-40°	1960.8	25.7
0°-60°	3395.7	44.4
0°-90°	4183.9	54.7
90°-120°	1652.6	21.6
90°-150°	3009.8	39.4
90°-180°	3458.0	45.2
0°-180°	7642.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1613	1613	1613	1613	1613	
5°	1620	1671	1620	1314	1620	154
15°	1547	1656	1547	1382	1547	435
25°	1363	1544	1363	1352	1363	626
35°	1036	1378	1036	1176	1036	641
45°	668	1135	668	996	668	535
55°	545	838	545	818	545	501
65°	378	505	378	565	378	362
75°	144	240	144	287	144	151
85°	24	61	24	52	24	33
90°	4	14	4	14	4	4
95°	34	157	34	157	34	38
105°	123	1070	123	1070	123	131
115°	219	1378	219	1378	219	216
125°	304	1098	304	1098	304	270
135°	363	852	363	852	363	281
145°	421	691	421	691	421	264
155°	476	595	476	595	476	218
165°	513	554	513	554	513	145
175°	534	537	534	537	534	51
180°	534	534	534	534	534	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1626.6	1626.6	1635.8	1638.8	1638.8	1634.2	1629.6	1634.2	1648.0	1652.6	1651.0
5°	1620.5	1632.7	1649.5	1652.6	1655.6	1654.0	1651.0	1654.0	1669.3	1672.4	1673.9
7.5°	1608.3	1631.2	1652.6	1657.1	1661.7	1657.1	1655.6	1658.7	1673.9	1677.0	1677.0
10°	1593.1	1625.1	1649.5	1652.6	1657.1	1652.6	1652.6	1658.7	1673.9	1677.0	1678.4
12.5°	1571.6	1615.9	1638.8	1641.9	1648.0	1646.4	1644.9	1651.0	1666.3	1669.3	1669.3
15°	1547.2	1599.1	1620.5	1623.5	1634.2	1631.2	1631.2	1637.3	1654.0	1658.7	1657.1
17.5°	1513.7	1577.7	1602.2	1606.8	1614.4	1612.8	1614.4	1620.5	1635.8	1638.8	1640.3
20°	1475.6	1548.8	1577.7	1582.4	1590.0	1590.0	1590.0	1597.6	1612.8	1619.0	1619.0
22.5°	1423.7	1518.3	1548.8	1551.9	1561.0	1561.0	1564.0	1574.7	1588.4	1590.0	1590.0
25°	1362.6	1484.7	1510.7	1519.7	1528.9	1533.5	1538.1	1544.2	1548.8	1547.2	1548.8
27.5°	1298.5	1442.0	1475.6	1481.6	1493.9	1498.4	1504.5	1506.0	1507.6	1512.1	1509.1
30°	1226.8	1382.5	1432.8	1438.9	1458.8	1461.8	1455.7	1458.8	1466.4	1469.5	1472.5
32.5°	1145.9	1294.0	1388.5	1402.3	1420.6	1411.4	1409.9	1414.5	1426.7	1426.7	1429.7
35°	1036.1	1225.3	1347.3	1359.6	1373.3	1362.6	1368.8	1370.2	1377.8	1382.5	1380.9
37.5°	915.5	1165.8	1304.6	1313.8	1324.5	1310.8	1319.9	1324.5	1330.6	1327.6	1327.6
40°	808.7	1072.7	1254.3	1260.4	1269.6	1258.9	1268.0	1271.0	1274.1	1271.0	1269.6
42.5°	729.3	970.4	1200.9	1208.5	1202.4	1210.1	1213.1	1219.2	1214.6	1208.5	1208.5
45°	668.4	943.0	1142.9	1152.1	1142.9	1155.1	1159.7	1159.7	1145.9	1142.9	1141.4
47.5°	648.5	888.0	1084.9	1084.9	1080.3	1095.6	1103.2	1092.6	1078.8	1074.2	1074.2
50°	647.0	827.1	1005.5	999.5	1020.8	1039.1	1031.5	1020.8	1010.2	993.4	993.4
52.5°	587.4	752.3	903.3	926.2	959.8	970.4	958.3	947.6	929.2	921.6	915.5
55°	544.8	674.4	810.3	856.0	891.1	904.8	882.0	871.3	843.8	839.2	836.2
57.5°	535.6	561.6	724.8	782.8	825.5	824.0	810.3	790.4	767.5	762.9	761.5
60°	491.3	405.9	633.2	701.9	746.1	741.6	729.3	711.1	689.7	686.7	683.6
62.5°	445.5	294.5	529.5	607.3	669.9	668.4	657.7	630.2	614.9	607.3	601.2
65°	378.5	247.2	376.9	505.0	595.1	598.1	575.3	555.4	538.6	529.5	528.0
67.5°	288.4	201.4	254.8	421.1	523.4	520.4	491.3	482.2	460.8	456.2	447.1
70°	213.6	134.3	177.0	341.8	453.2	445.5	422.7	412.0	392.2	381.5	375.4
72.5°	177.0	108.3	129.7	265.5	381.5	372.3	352.5	340.3	323.5	314.3	308.2
75°	143.5	114.4	99.2	196.8	309.8	303.7	285.4	273.1	259.4	247.2	248.7
77.5°	105.3	106.8	79.3	145.0	245.6	236.5	225.8	210.6	204.4	192.3	192.3
80°	79.3	83.9	59.5	99.2	177.0	177.0	167.9	157.2	146.5	140.4	140.4
82.5°	53.4	53.4	44.3	62.5	120.6	116.0	109.9	106.8	100.7	97.6	97.6
85°	24.4	30.5	27.5	38.1	65.6	68.7	68.7	65.6	64.1	61.1	62.5
87.5°	7.6	13.7	16.8	21.3	33.6	35.1	36.7	36.7	36.7	38.1	38.1
90°	3.5	6.4	9.3	10.0	15.7	23.3	27.2	24.2	18.2	13.6	13.6
92.5°	14.3	38.7	63.0	69.1	97.1	134.5	153.2	134.3	96.4	68.0	65.3
95°	34.3	78.9	123.4	134.6	239.0	378.3	447.9	399.7	303.2	230.9	222.8
97.5°	59.4	98.7	138.0	147.8	322.0	554.2	670.3	639.8	578.9	533.1	517.5
100°	78.8	114.4	150.1	159.0	352.2	609.8	738.7	740.9	745.4	748.7	730.1
102.5°	95.2	128.5	161.8	170.1	366.1	627.3	758.0	796.8	874.5	932.7	916.8
105°	123.2	151.4	179.6	186.6	376.3	629.3	755.8	842.8	1016.9	1147.5	1139.0
107.5°	151.8	178.1	204.4	210.9	378.2	601.3	712.9	834.3	1077.2	1259.3	1261.3
110°	171.2	194.9	218.5	224.5	375.3	576.5	677.1	812.8	1084.3	1287.9	1296.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	190.1	212.7	235.3	240.9	375.5	554.8	644.5	783.4	1061.2	1269.6	1283.3
115°	218.8	239.6	260.4	265.7	378.9	529.9	605.5	739.3	1006.9	1207.7	1226.6
117.5°	247.0	266.0	284.9	289.7	386.0	514.4	578.6	699.4	940.9	1122.1	1143.1
120°	263.5	281.4	299.1	303.6	391.7	509.1	567.9	678.2	898.9	1064.4	1084.9
122.5°	279.7	297.6	315.6	320.1	399.9	506.4	559.6	659.0	857.7	1006.8	1026.9
125°	304.3	320.7	337.1	341.2	411.0	504.1	550.7	635.1	804.0	930.5	949.1
127.5°	324.4	341.0	357.4	361.6	422.1	502.8	543.2	615.6	760.6	869.3	885.0
130°	335.1	353.0	370.8	375.2	430.3	503.7	540.3	604.8	733.9	830.7	845.2
132.5°	346.2	364.1	381.8	386.3	436.8	504.1	537.8	595.5	711.1	797.7	810.7
135°	362.7	378.9	395.2	399.2	444.0	503.7	533.5	581.8	678.6	751.1	762.3
137.5°	379.5	395.5	411.6	415.6	454.7	506.7	532.8	573.6	655.4	716.8	726.0
140°	393.5	408.3	423.1	426.8	461.3	507.3	530.2	565.6	636.3	689.2	697.8
142.5°	404.2	418.0	431.7	435.0	466.8	509.0	530.2	561.3	623.3	669.9	677.3
145°	420.7	432.7	444.5	447.5	473.9	509.1	526.7	552.1	602.8	640.9	646.4
147.5°	437.1	448.8	460.4	463.3	484.4	512.6	526.7	546.6	586.6	616.5	621.2
150°	447.9	458.4	468.9	471.5	490.0	514.4	526.7	543.5	577.3	602.6	606.4
152.5°	459.0	467.0	474.9	476.9	493.5	515.6	526.7	541.1	569.9	591.5	594.4
155°	475.5	481.3	487.3	488.7	501.3	518.2	526.7	538.2	561.1	578.3	580.1
157.5°	487.6	493.4	499.1	500.6	509.3	520.9	526.7	535.6	553.4	566.8	568.1
160°	495.9	500.3	504.8	505.9	512.8	522.1	526.7	534.3	549.5	561.0	561.8
162.5°	504.1	507.5	510.8	511.7	516.7	523.4	526.7	533.1	546.0	555.7	556.4
165°	513.1	516.1	519.1	519.9	522.1	525.1	526.7	531.3	540.5	547.5	548.2
167.5°	521.3	522.8	524.1	524.5	526.4	529.0	530.2	533.2	539.3	543.9	544.2
170°	526.7	528.1	529.5	529.9	530.0	530.1	530.2	533.2	539.3	543.9	543.9
172.5°	529.5	529.8	530.1	530.2	530.2	530.2	530.2	532.6	537.4	541.0	540.7
175°	533.5	533.5	533.5	533.5	532.4	530.9	530.2	531.8	534.8	537.1	537.1
177.5°	533.5	533.5	533.5	533.5	532.6	531.5	531.0	532.2	534.6	536.4	536.1
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1654.0	1649.5	1654.0	1651.0	1652.6	1648.0	1634.2	1629.6	1634.2	1638.8	1638.8
5°	1673.9	1670.8	1673.9	1673.9	1672.4	1669.3	1654.0	1651.0	1654.0	1655.6	1652.6
7.5°	1680.0	1675.4	1680.0	1677.0	1677.0	1673.9	1658.7	1655.6	1657.1	1661.7	1657.1
10°	1680.0	1675.4	1680.0	1678.4	1677.0	1673.9	1658.7	1652.6	1652.6	1657.1	1652.6
12.5°	1672.4	1669.3	1672.4	1669.3	1669.3	1666.3	1651.0	1644.9	1646.4	1648.0	1641.9
15°	1660.2	1655.6	1660.2	1657.1	1658.7	1654.0	1637.3	1631.2	1631.2	1634.2	1623.5
17.5°	1641.9	1635.8	1641.9	1640.3	1638.8	1635.8	1620.5	1614.4	1612.8	1614.4	1606.8
20°	1620.5	1615.9	1620.5	1619.0	1619.0	1612.8	1597.6	1590.0	1590.0	1590.0	1582.4
22.5°	1586.9	1582.4	1586.9	1590.0	1590.0	1588.4	1574.7	1564.0	1561.0	1561.0	1551.9
25°	1548.8	1544.2	1548.8	1548.8	1547.2	1548.8	1544.2	1538.1	1533.5	1528.9	1519.7
27.5°	1512.1	1509.1	1512.1	1509.1	1512.1	1507.6	1506.0	1504.5	1498.4	1493.9	1481.6
30°	1475.6	1472.5	1475.6	1472.5	1469.5	1466.4	1458.8	1455.7	1461.8	1458.8	1438.9
32.5°	1429.7	1426.7	1429.7	1429.7	1426.7	1426.7	1414.5	1409.9	1411.4	1420.6	1402.3
35°	1382.5	1377.8	1382.5	1380.9	1382.5	1377.8	1370.2	1368.8	1362.6	1373.3	1359.6
37.5°	1327.6	1322.9	1327.6	1327.6	1327.6	1330.6	1324.5	1319.9	1310.8	1324.5	1313.8
40°	1271.0	1265.0	1271.0	1269.6	1271.0	1274.1	1271.0	1268.0	1258.9	1269.6	1260.4
42.5°	1207.0	1205.4	1207.0	1208.5	1208.5	1214.6	1219.2	1213.1	1210.1	1202.4	1208.5
45°	1138.3	1135.3	1138.3	1141.4	1142.9	1145.9	1159.7	1159.7	1155.1	1142.9	1152.1
47.5°	1065.1	1057.4	1065.1	1074.2	1074.2	1078.8	1092.6	1103.2	1095.6	1080.3	1084.9
50°	987.2	988.8	987.2	993.4	993.4	1010.2	1020.8	1031.5	1039.1	1020.8	999.5
52.5°	911.0	909.4	911.0	915.5	921.6	929.2	947.6	958.3	970.4	959.8	926.2
55°	834.7	837.7	834.7	836.2	839.2	843.8	871.3	882.0	904.8	891.1	856.0
57.5°	758.4	753.8	758.4	761.5	762.9	767.5	790.4	810.3	824.0	825.5	782.8
60°	669.9	663.7	669.9	683.6	686.7	689.7	711.1	729.3	741.6	746.1	701.9
62.5°	592.1	581.4	592.1	601.2	607.3	614.9	630.2	657.7	668.4	669.9	607.3
65°	509.7	505.0	509.7	528.0	529.5	538.6	555.4	575.3	598.1	595.1	505.0
67.5°	434.9	434.9	434.9	447.1	456.2	460.8	482.2	491.3	520.4	523.4	421.1
70°	366.2	364.7	366.2	375.4	381.5	392.2	412.0	422.7	445.5	453.2	341.8
72.5°	300.6	299.1	300.6	308.2	314.3	323.5	340.3	352.5	372.3	381.5	265.5
75°	242.6	239.5	242.6	248.7	247.2	259.4	273.1	285.4	303.7	309.8	196.8
77.5°	186.2	186.2	186.2	192.3	192.3	204.4	210.6	225.8	236.5	245.6	145.0
80°	138.8	137.4	138.8	140.4	140.4	146.5	157.2	167.9	177.0	177.0	99.2
82.5°	97.6	94.6	97.6	97.6	97.6	100.7	106.8	109.9	116.0	120.6	62.5
85°	61.1	61.1	61.1	62.5	61.1	64.1	65.6	68.7	68.7	65.6	38.1
87.5°	39.7	38.1	39.7	38.1	38.1	36.7	36.7	36.7	35.1	33.6	21.3
90°	13.6	13.6	13.6	13.6	13.6	18.2	24.2	27.2	23.3	15.7	10.0
92.5°	54.4	43.7	54.4	65.3	68.0	96.4	134.3	153.2	134.5	97.1	69.1
95°	190.0	157.2	190.0	222.8	230.9	303.2	399.7	447.9	378.3	239.0	134.6
97.5°	455.1	392.8	455.1	517.5	533.1	578.9	639.8	670.3	554.2	322.0	147.8
100°	655.7	581.4	655.7	730.1	748.7	745.4	740.9	738.7	609.8	352.2	159.0
102.5°	853.2	789.5	853.2	916.8	932.7	874.5	796.8	758.0	627.3	366.1	170.1
105°	1104.7	1070.5	1104.7	1139.0	1147.5	1016.9	842.8	755.8	629.3	376.3	186.6
107.5°	1269.6	1277.8	1269.6	1261.3	1259.3	1077.2	834.3	712.9	601.3	378.2	210.9
110°	1332.4	1368.1	1332.4	1296.8	1287.9	1084.3	812.8	677.1	576.5	375.3	224.5





TEST NUMBER: P934823

CATALOG NUMBER: SQ4-FA-075U-100D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1338.0	1392.8	1338.0	1283.3	1269.6	1061.2	783.4	644.5	554.8	375.5	240.9
115°	1302.5	1378.5	1302.5	1226.6	1207.7	1006.9	739.3	605.5	529.9	378.9	265.7
117.5°	1227.3	1311.5	1227.3	1143.1	1122.1	940.9	699.4	578.6	514.4	386.0	289.7
120°	1166.7	1248.5	1166.7	1084.9	1064.4	898.9	678.2	567.9	509.1	391.7	303.6
122.5°	1107.6	1188.3	1107.6	1026.9	1006.8	857.7	659.0	559.6	506.4	399.9	320.1
125°	1023.5	1097.8	1023.5	949.1	930.5	804.0	635.1	550.7	504.1	411.0	341.2
127.5°	947.7	1010.4	947.7	885.0	869.3	760.6	615.6	543.2	502.8	422.1	361.6
130°	903.1	961.0	903.1	845.2	830.7	733.9	604.8	540.3	503.7	430.3	375.2
132.5°	862.6	914.5	862.6	810.7	797.7	711.1	595.5	537.8	504.1	436.8	386.3
135°	807.0	851.8	807.0	762.3	751.1	678.6	581.8	533.5	503.7	444.0	399.2
137.5°	762.5	799.2	762.5	726.0	716.8	655.4	573.6	532.8	506.7	454.7	415.6
140°	732.0	766.2	732.0	697.8	689.2	636.3	565.6	530.2	507.3	461.3	426.8
142.5°	706.7	736.1	706.7	677.3	669.9	623.3	561.3	530.2	509.0	466.8	435.0
145°	668.7	691.0	668.7	646.4	640.9	602.8	552.1	526.7	509.1	473.9	447.5
147.5°	639.6	658.0	639.6	621.2	616.5	586.6	546.6	526.7	512.6	484.4	463.3
150°	621.3	636.3	621.3	606.4	602.6	577.3	543.5	526.7	514.4	490.0	471.5
152.5°	605.6	616.9	605.6	594.4	591.5	569.9	541.1	526.7	515.6	493.5	476.9
155°	587.6	595.1	587.6	580.1	578.3	561.1	538.2	526.7	518.2	501.3	488.7
157.5°	573.3	578.6	573.3	568.1	566.8	553.4	535.6	526.7	520.9	509.3	500.6
160°	564.8	567.9	564.8	561.8	561.0	549.5	534.3	526.7	522.1	512.8	505.9
162.5°	559.3	562.1	559.3	556.4	555.7	546.0	533.1	526.7	523.4	516.7	511.7
165°	551.2	554.2	551.2	548.2	547.5	540.5	531.3	526.7	525.1	522.1	519.9
167.5°	545.5	546.7	545.5	544.2	543.9	539.3	533.2	530.2	529.0	526.4	524.5
170°	543.9	543.9	543.9	543.9	543.9	539.3	533.2	530.2	530.1	530.0	529.9
172.5°	539.6	538.5	539.6	540.7	541.0	537.4	532.6	530.2	530.2	530.2	530.2
175°	537.1	537.1	537.1	537.1	537.1	534.8	531.8	530.2	530.9	532.4	533.5
177.5°	534.8	533.5	534.8	536.1	536.4	534.6	532.2	531.0	531.5	532.6	533.5
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



TEST NUMBER: P934823

CATALOG NUMBER: SQ4-FA-075U-100D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1635.8	1626.6	1626.6	1611.3	1605.2	1600.7	1593.1	1570.1	1564.0	1557.9	1567.1
5°	1649.5	1632.7	1620.5	1593.1	1570.1	1561.0	1532.0	1477.1	1440.4	1413.0	1397.7
7.5°	1652.6	1631.2	1608.3	1565.6	1510.7	1486.2	1397.7	1297.0	1269.6	1245.1	1229.8
10°	1649.5	1625.1	1593.1	1528.9	1399.2	1356.5	1268.0	1202.4	1185.6	1181.0	1185.6
12.5°	1638.8	1615.9	1571.6	1464.8	1283.3	1254.3	1202.4	1164.2	1161.2	1168.9	1210.1
15°	1620.5	1599.1	1547.2	1379.4	1219.2	1197.8	1161.2	1147.5	1164.2	1217.7	1341.3
17.5°	1602.2	1577.7	1513.7	1295.4	1170.3	1155.1	1129.1	1156.6	1251.2	1322.9	1364.1
20°	1577.7	1548.8	1475.6	1234.5	1135.3	1121.5	1109.3	1232.9	1304.6	1330.6	1353.4
22.5°	1548.8	1518.3	1423.7	1191.7	1098.6	1087.9	1095.6	1275.7	1304.6	1322.9	1342.8
25°	1510.7	1484.7	1362.6	1158.2	1069.7	1057.4	1086.5	1271.0	1287.8	1292.4	1332.1
27.5°	1475.6	1442.0	1298.5	1127.7	1034.6	1030.0	1094.1	1251.2	1263.4	1268.0	1310.8
30°	1432.8	1382.5	1226.8	1095.6	997.9	996.4	1095.6	1226.8	1223.8	1236.0	1278.7
32.5°	1388.5	1294.0	1145.9	1055.9	962.8	961.3	1084.9	1190.2	1187.1	1203.9	1236.0
35°	1347.3	1225.3	1036.1	1010.2	918.6	920.1	1059.0	1147.5	1149.0	1164.2	1184.1
37.5°	1304.6	1165.8	915.5	959.8	875.9	875.9	1023.9	1107.8	1104.7	1109.3	1136.8
40°	1254.3	1072.7	808.7	894.2	836.2	831.6	981.1	1065.1	1054.4	1052.9	1091.0
42.5°	1200.9	970.4	729.3	807.2	790.4	784.3	929.2	1013.2	993.4	997.9	1046.7
45°	1142.9	943.0	668.4	682.1	743.1	738.5	872.8	953.6	939.9	952.2	1002.5
47.5°	1084.9	888.0	648.5	566.1	692.8	691.2	810.3	895.7	888.0	900.3	953.6
50°	1005.5	827.1	647.0	485.3	636.3	642.4	735.5	839.2	839.2	849.9	906.4
52.5°	903.3	752.3	587.4	439.4	570.6	589.0	669.9	790.4	793.5	804.1	854.5
55°	810.3	674.4	544.8	404.3	492.9	532.5	605.8	740.0	746.1	756.8	802.6
57.5°	724.8	561.6	535.6	363.1	421.1	459.3	549.3	691.2	694.3	703.5	747.7
60°	633.2	405.9	491.3	318.9	358.6	387.5	497.4	633.2	644.0	650.0	688.1
62.5°	529.5	294.5	445.5	288.4	328.1	334.2	454.7	578.3	592.1	596.6	619.5
65°	376.9	247.2	378.5	262.4	296.0	297.5	408.9	521.8	534.1	541.7	558.5
67.5°	254.8	201.4	288.4	238.0	271.6	273.1	364.7	456.2	473.0	479.1	489.8
70°	177.0	134.3	213.6	212.1	244.2	247.2	317.4	396.7	412.0	416.6	422.7
72.5°	129.7	108.3	177.0	190.7	215.1	218.2	268.6	329.6	344.9	349.4	352.5
75°	99.2	114.4	143.5	166.3	183.1	184.6	219.8	268.6	279.2	282.3	283.8
77.5°	79.3	106.8	105.3	134.3	149.5	146.5	172.4	207.5	216.7	216.7	216.7
80°	59.5	83.9	79.3	96.1	109.9	106.8	123.6	148.0	151.1	154.1	152.6
82.5°	44.3	53.4	53.4	61.1	73.2	70.2	82.4	96.1	96.1	96.1	99.2
85°	27.5	30.5	24.4	32.0	41.2	39.7	45.8	51.9	53.4	53.4	50.4
87.5°	16.8	13.7	7.6	12.2	18.3	18.3	21.3	22.9	21.3	21.3	21.3
90°	9.3	6.4	3.5	6.4	9.3	10.0	15.7	23.3	27.2	24.2	18.2
92.5°	63.0	38.7	14.3	38.7	63.0	69.1	97.1	134.5	153.2	134.3	96.4
95°	123.4	78.9	34.3	78.9	123.4	134.6	239.0	378.3	447.9	399.7	303.2
97.5°	138.0	98.7	59.4	98.7	138.0	147.8	322.0	554.2	670.3	639.8	578.9
100°	150.1	114.4	78.8	114.4	150.1	159.0	352.2	609.8	738.7	740.9	745.4
102.5°	161.8	128.5	95.2	128.5	161.8	170.1	366.1	627.3	758.0	796.8	874.5
105°	179.6	151.4	123.2	151.4	179.6	186.6	376.3	629.3	755.8	842.8	1016.9
107.5°	204.4	178.1	151.8	178.1	204.4	210.9	378.2	601.3	712.9	834.3	1077.2
110°	218.5	194.9	171.2	194.9	218.5	224.5	375.3	576.5	677.1	812.8	1084.3



TEST NUMBER: P934823

CATALOG NUMBER: SQ4-FA-075U-100D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	235.3	212.7	190.1	212.7	235.3	240.9	375.5	554.8	644.5	783.4	1061.2
115°	260.4	239.6	218.8	239.6	260.4	265.7	378.9	529.9	605.5	739.3	1006.9
117.5°	284.9	266.0	247.0	266.0	284.9	289.7	386.0	514.4	578.6	699.4	940.9
120°	299.1	281.4	263.5	281.4	299.1	303.6	391.7	509.1	567.9	678.2	898.9
122.5°	315.6	297.6	279.7	297.6	315.6	320.1	399.9	506.4	559.6	659.0	857.7
125°	337.1	320.7	304.3	320.7	337.1	341.2	411.0	504.1	550.7	635.1	804.0
127.5°	357.4	341.0	324.4	341.0	357.4	361.6	422.1	502.8	543.2	615.6	760.6
130°	370.8	353.0	335.1	353.0	370.8	375.2	430.3	503.7	540.3	604.8	733.9
132.5°	381.8	364.1	346.2	364.1	381.8	386.3	436.8	504.1	537.8	595.5	711.1
135°	395.2	378.9	362.7	378.9	395.2	399.2	444.0	503.7	533.5	581.8	678.6
137.5°	411.6	395.5	379.5	395.5	411.6	415.6	454.7	506.7	532.8	573.6	655.4
140°	423.1	408.3	393.5	408.3	423.1	426.8	461.3	507.3	530.2	565.6	636.3
142.5°	431.7	418.0	404.2	418.0	431.7	435.0	466.8	509.0	530.2	561.3	623.3
145°	444.5	432.7	420.7	432.7	444.5	447.5	473.9	509.1	526.7	552.1	602.8
147.5°	460.4	448.8	437.1	448.8	460.4	463.3	484.4	512.6	526.7	546.6	586.6
150°	468.9	458.4	447.9	458.4	468.9	471.5	490.0	514.4	526.7	543.5	577.3
152.5°	474.9	467.0	459.0	467.0	474.9	476.9	493.5	515.6	526.7	541.1	569.9
155°	487.3	481.3	475.5	481.3	487.3	488.7	501.3	518.2	526.7	538.2	561.1
157.5°	499.1	493.4	487.6	493.4	499.1	500.6	509.3	520.9	526.7	535.6	553.4
160°	504.8	500.3	495.9	500.3	504.8	505.9	512.8	522.1	526.7	534.3	549.5
162.5°	510.8	507.5	504.1	507.5	510.8	511.7	516.7	523.4	526.7	533.1	546.0
165°	519.1	516.1	513.1	516.1	519.1	519.9	522.1	525.1	526.7	531.3	540.5
167.5°	524.1	522.8	521.3	522.8	524.1	524.5	526.4	529.0	530.2	533.2	539.3
170°	529.5	528.1	526.7	528.1	529.5	529.9	530.0	530.1	530.2	533.2	539.3
172.5°	530.1	529.8	529.5	529.8	530.1	530.2	530.2	530.2	530.2	532.6	537.4
175°	533.5	533.5	533.5	533.5	533.5	533.5	532.4	530.9	530.2	531.8	534.8
177.5°	533.5	533.5	533.5	533.5	533.5	533.5	532.6	531.5	531.0	532.2	534.6
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



TEST NUMBER: P934823  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1556.4	1551.9	1557.9	1541.2	1557.9	1551.9	1556.4	1567.1	1557.9	1564.0	1570.1
5°	1365.7	1358.0	1333.6	1313.8	1333.6	1358.0	1365.7	1397.7	1413.0	1440.4	1477.1
7.5°	1220.7	1214.6	1208.5	1196.3	1208.5	1214.6	1220.7	1229.8	1245.1	1269.6	1297.0
10°	1188.6	1190.2	1199.4	1197.8	1199.4	1190.2	1188.6	1185.6	1181.0	1185.6	1202.4
12.5°	1271.0	1284.8	1335.2	1332.1	1335.2	1284.8	1271.0	1210.1	1168.9	1161.2	1164.2
15°	1365.7	1370.2	1380.9	1382.5	1380.9	1370.2	1365.7	1341.3	1217.7	1164.2	1147.5
17.5°	1374.8	1376.4	1384.0	1384.0	1384.0	1376.4	1374.8	1364.1	1322.9	1251.2	1156.6
20°	1367.2	1370.2	1385.5	1388.5	1385.5	1370.2	1367.2	1353.4	1330.6	1304.6	1232.9
22.5°	1364.1	1370.2	1382.5	1380.9	1382.5	1370.2	1364.1	1342.8	1322.9	1304.6	1275.7
25°	1348.9	1348.9	1350.4	1352.0	1350.4	1348.9	1348.9	1332.1	1292.4	1287.8	1271.0
27.5°	1316.9	1319.9	1329.0	1327.6	1329.0	1319.9	1316.9	1310.8	1268.0	1263.4	1251.2
30°	1287.8	1284.8	1277.2	1271.0	1277.2	1284.8	1287.8	1278.7	1236.0	1223.8	1226.8
32.5°	1239.0	1231.4	1223.8	1219.2	1223.8	1231.4	1239.0	1236.0	1203.9	1187.1	1190.2
35°	1181.0	1182.6	1181.0	1176.5	1181.0	1182.6	1181.0	1184.1	1164.2	1149.0	1147.5
37.5°	1139.8	1142.9	1141.4	1135.3	1141.4	1142.9	1139.8	1136.8	1109.3	1104.7	1107.8
40°	1097.1	1098.6	1097.1	1092.6	1097.1	1098.6	1097.1	1091.0	1052.9	1054.4	1065.1
42.5°	1055.9	1054.4	1049.8	1046.7	1049.8	1054.4	1055.9	1046.7	997.9	993.4	1013.2
45°	1008.6	1010.2	1001.0	996.4	1001.0	1010.2	1008.6	1002.5	952.2	939.9	953.6
47.5°	961.3	961.3	953.6	949.1	953.6	961.3	961.3	953.6	900.3	888.0	895.7
50°	911.0	909.4	898.7	897.2	898.7	909.4	911.0	906.4	849.9	839.2	839.2
52.5°	853.0	853.0	854.5	857.5	854.5	853.0	853.0	854.5	804.1	793.5	790.4
55°	802.6	804.1	814.8	817.9	814.8	804.1	802.6	802.6	756.8	746.1	740.0
57.5°	750.8	750.8	758.4	758.4	758.4	750.8	750.8	747.7	703.5	694.3	691.2
60°	691.2	694.3	700.4	698.9	700.4	694.3	691.2	688.1	650.0	644.0	633.2
62.5°	628.6	631.7	633.2	630.2	633.2	631.7	628.6	619.5	596.6	592.1	578.3
65°	563.0	566.1	567.6	564.6	567.6	566.1	563.0	558.5	541.7	534.1	521.8
67.5°	495.9	494.4	492.9	499.0	492.9	494.4	495.9	489.8	479.1	473.0	456.2
70°	427.3	427.3	425.7	428.7	425.7	427.3	427.3	422.7	416.6	412.0	396.7
72.5°	354.0	352.5	358.6	354.0	358.6	352.5	354.0	352.5	349.4	344.9	329.6
75°	282.3	285.4	282.3	286.9	282.3	285.4	282.3	283.8	282.3	279.2	268.6
77.5°	215.1	218.2	215.1	215.1	215.1	218.2	215.1	216.7	216.7	216.7	207.5
80°	152.6	151.1	151.1	149.5	151.1	151.1	152.6	152.6	154.1	151.1	148.0
82.5°	97.6	96.1	96.1	99.2	96.1	96.1	97.6	99.2	96.1	96.1	96.1
85°	53.4	54.9	51.9	51.9	51.9	54.9	53.4	50.4	53.4	53.4	51.9
87.5°	19.9	18.3	18.3	18.3	18.3	18.3	19.9	21.3	21.3	21.3	22.9
90°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	18.2	24.2	27.2	23.3
92.5°	68.0	65.3	54.4	43.7	54.4	65.3	68.0	96.4	134.3	153.2	134.5
95°	230.9	222.8	190.0	157.2	190.0	222.8	230.9	303.2	399.7	447.9	378.3
97.5°	533.1	517.5	455.1	392.8	455.1	517.5	533.1	578.9	639.8	670.3	554.2
100°	748.7	730.1	655.7	581.4	655.7	730.1	748.7	745.4	740.9	738.7	609.8
102.5°	932.7	916.8	853.2	789.5	853.2	916.8	932.7	874.5	796.8	758.0	627.3
105°	1147.5	1139.0	1104.7	1070.5	1104.7	1139.0	1147.5	1016.9	842.8	755.8	629.3
107.5°	1259.3	1261.3	1269.6	1277.8	1269.6	1261.3	1259.3	1077.2	834.3	712.9	601.3
110°	1287.9	1296.8	1332.4	1368.1	1332.4	1296.8	1287.9	1084.3	812.8	677.1	576.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1269.6	1283.3	1338.0	1392.8	1338.0	1283.3	1269.6	1061.2	783.4	644.5	554.8
115°	1207.7	1226.6	1302.5	1378.5	1302.5	1226.6	1207.7	1006.9	739.3	605.5	529.9
117.5°	1122.1	1143.1	1227.3	1311.5	1227.3	1143.1	1122.1	940.9	699.4	578.6	514.4
120°	1064.4	1084.9	1166.7	1248.5	1166.7	1084.9	1064.4	898.9	678.2	567.9	509.1
122.5°	1006.8	1026.9	1107.6	1188.3	1107.6	1026.9	1006.8	857.7	659.0	559.6	506.4
125°	930.5	949.1	1023.5	1097.8	1023.5	949.1	930.5	804.0	635.1	550.7	504.1
127.5°	869.3	885.0	947.7	1010.4	947.7	885.0	869.3	760.6	615.6	543.2	502.8
130°	830.7	845.2	903.1	961.0	903.1	845.2	830.7	733.9	604.8	540.3	503.7
132.5°	797.7	810.7	862.6	914.5	862.6	810.7	797.7	711.1	595.5	537.8	504.1
135°	751.1	762.3	807.0	851.8	807.0	762.3	751.1	678.6	581.8	533.5	503.7
137.5°	716.8	726.0	762.5	799.2	762.5	726.0	716.8	655.4	573.6	532.8	506.7
140°	689.2	697.8	732.0	766.2	732.0	697.8	689.2	636.3	565.6	530.2	507.3
142.5°	669.9	677.3	706.7	736.1	706.7	677.3	669.9	623.3	561.3	530.2	509.0
145°	640.9	646.4	668.7	691.0	668.7	646.4	640.9	602.8	552.1	526.7	509.1
147.5°	616.5	621.2	639.6	658.0	639.6	621.2	616.5	586.6	546.6	526.7	512.6
150°	602.6	606.4	621.3	636.3	621.3	606.4	602.6	577.3	543.5	526.7	514.4
152.5°	591.5	594.4	605.6	616.9	605.6	594.4	591.5	569.9	541.1	526.7	515.6
155°	578.3	580.1	587.6	595.1	587.6	580.1	578.3	561.1	538.2	526.7	518.2
157.5°	566.8	568.1	573.3	578.6	573.3	568.1	566.8	553.4	535.6	526.7	520.9
160°	561.0	561.8	564.8	567.9	564.8	561.8	561.0	549.5	534.3	526.7	522.1
162.5°	555.7	556.4	559.3	562.1	559.3	556.4	555.7	546.0	533.1	526.7	523.4
165°	547.5	548.2	551.2	554.2	551.2	548.2	547.5	540.5	531.3	526.7	525.1
167.5°	543.9	544.2	545.5	546.7	545.5	544.2	543.9	539.3	533.2	530.2	529.0
170°	543.9	543.9	543.9	543.9	543.9	543.9	543.9	539.3	533.2	530.2	530.1
172.5°	541.0	540.7	539.6	538.5	539.6	540.7	541.0	537.4	532.6	530.2	530.2
175°	537.1	537.1	537.1	537.1	537.1	537.1	537.1	534.8	531.8	530.2	530.9
177.5°	536.4	536.1	534.8	533.5	534.8	536.1	536.4	534.6	532.2	531.0	531.5
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1593.1	1600.7	1605.2	1611.3	1626.6
5°	1532.0	1561.0	1570.1	1593.1	1620.5
7.5°	1397.7	1486.2	1510.7	1565.6	1608.3
10°	1268.0	1356.5	1399.2	1528.9	1593.1
12.5°	1202.4	1254.3	1283.3	1464.8	1571.6
15°	1161.2	1197.8	1219.2	1379.4	1547.2
17.5°	1129.1	1155.1	1170.3	1295.4	1513.7
20°	1109.3	1121.5	1135.3	1234.5	1475.6
22.5°	1095.6	1087.9	1098.6	1191.7	1423.7
25°	1086.5	1057.4	1069.7	1158.2	1362.6
27.5°	1094.1	1030.0	1034.6	1127.7	1298.5
30°	1095.6	996.4	997.9	1095.6	1226.8
32.5°	1084.9	961.3	962.8	1055.9	1145.9
35°	1059.0	920.1	918.6	1010.2	1036.1
37.5°	1023.9	875.9	875.9	959.8	915.5
40°	981.1	831.6	836.2	894.2	808.7
42.5°	929.2	784.3	790.4	807.2	729.3
45°	872.8	738.5	743.1	682.1	668.4
47.5°	810.3	691.2	692.8	566.1	648.5
50°	735.5	642.4	636.3	485.3	647.0
52.5°	669.9	589.0	570.6	439.4	587.4
55°	605.8	532.5	492.9	404.3	544.8
57.5°	549.3	459.3	421.1	363.1	535.6
60°	497.4	387.5	358.6	318.9	491.3
62.5°	454.7	334.2	328.1	288.4	445.5
65°	408.9	297.5	296.0	262.4	378.5
67.5°	364.7	273.1	271.6	238.0	288.4
70°	317.4	247.2	244.2	212.1	213.6
72.5°	268.6	218.2	215.1	190.7	177.0
75°	219.8	184.6	183.1	166.3	143.5
77.5°	172.4	146.5	149.5	134.3	105.3
80°	123.6	106.8	109.9	96.1	79.3
82.5°	82.4	70.2	73.2	61.1	53.4
85°	45.8	39.7	41.2	32.0	24.4
87.5°	21.3	18.3	18.3	12.2	7.6
90°	15.7	10.0	9.3	6.4	3.5
92.5°	97.1	69.1	63.0	38.7	14.3
95°	239.0	134.6	123.4	78.9	34.3
97.5°	322.0	147.8	138.0	98.7	59.4
100°	352.2	159.0	150.1	114.4	78.8
102.5°	366.1	170.1	161.8	128.5	95.2
105°	376.3	186.6	179.6	151.4	123.2
107.5°	378.2	210.9	204.4	178.1	151.8
110°	375.3	224.5	218.5	194.9	171.2



TEST NUMBER: P934823

CATALOG NUMBER: SQ4-FA-075U-100D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	375.5	240.9	235.3	212.7	190.1
115°	378.9	265.7	260.4	239.6	218.8
117.5°	386.0	289.7	284.9	266.0	247.0
120°	391.7	303.6	299.1	281.4	263.5
122.5°	399.9	320.1	315.6	297.6	279.7
125°	411.0	341.2	337.1	320.7	304.3
127.5°	422.1	361.6	357.4	341.0	324.4
130°	430.3	375.2	370.8	353.0	335.1
132.5°	436.8	386.3	381.8	364.1	346.2
135°	444.0	399.2	395.2	378.9	362.7
137.5°	454.7	415.6	411.6	395.5	379.5
140°	461.3	426.8	423.1	408.3	393.5
142.5°	466.8	435.0	431.7	418.0	404.2
145°	473.9	447.5	444.5	432.7	420.7
147.5°	484.4	463.3	460.4	448.8	437.1
150°	490.0	471.5	468.9	458.4	447.9
152.5°	493.5	476.9	474.9	467.0	459.0
155°	501.3	488.7	487.3	481.3	475.5
157.5°	509.3	500.6	499.1	493.4	487.6
160°	512.8	505.9	504.8	500.3	495.9
162.5°	516.7	511.7	510.8	507.5	504.1
165°	522.1	519.9	519.1	516.1	513.1
167.5°	526.4	524.5	524.1	522.8	521.3
170°	530.0	529.9	529.5	528.1	526.7
172.5°	530.2	530.2	530.1	529.8	529.5
175°	532.4	533.5	533.5	533.5	533.5
177.5°	532.6	533.5	533.5	533.5	533.5
180°	533.5	533.5	533.5	533.5	533.5



TEST NUMBER: P934823  
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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	13.22	14.13	14.14	15.06	16.26	16.05	16.95	16.96	17.89	19.09
	3H	13.70	14.51	14.63	15.46	16.68	17.39	18.21	18.32	19.15	20.38
	4H	13.90	14.66	14.84	15.61	16.85	17.84	18.61	18.78	19.56	20.79
	6H	14.02	14.72	14.97	15.68	16.93	18.13	18.83	19.08	19.79	21.03
	8H	14.02	14.69	14.98	15.66	16.91	18.20	18.87	19.16	19.84	21.09
	12H	13.99	14.63	14.96	15.60	16.87	18.24	18.88	19.21	19.85	21.12
4H	2H	14.26	15.03	15.21	15.98	17.21	16.46	17.23	17.41	18.18	19.41
	3H	15.29	15.93	16.25	16.91	18.16	17.97	18.61	18.93	19.59	20.84
	4H	15.57	16.15	16.54	17.12	18.40	18.50	19.08	19.47	20.06	21.33
	6H	15.70	16.20	16.68	17.20	18.47	18.87	19.37	19.85	20.36	21.64
	8H	15.70	16.17	16.68	17.16	18.45	18.97	19.44	19.95	20.43	21.72
	12H	15.67	16.10	16.67	17.10	18.39	19.03	19.45	20.03	20.46	21.75
8H	4H	16.02	16.49	17.01	17.48	18.77	18.63	19.10	19.61	20.09	21.37
	6H	16.29	16.68	17.30	17.71	18.99	19.06	19.45	20.07	20.48	21.77
	8H	16.33	16.67	17.35	17.69	19.00	19.22	19.56	20.23	20.58	21.88
	12H	16.32	16.62	17.34	17.63	18.98	19.32	19.62	20.33	20.63	21.98
12H	4H	16.03	16.46	17.03	17.46	18.76	18.59	19.02	19.59	20.02	21.32
	6H	16.35	16.69	17.36	17.71	19.01	19.06	19.41	20.08	20.42	21.73
	8H	16.42	16.72	17.44	17.73	19.08	19.22	19.53	20.24	20.54	21.89