

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: P934711

Luminaire Tested: SQ4-FA-075U-075D-830-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

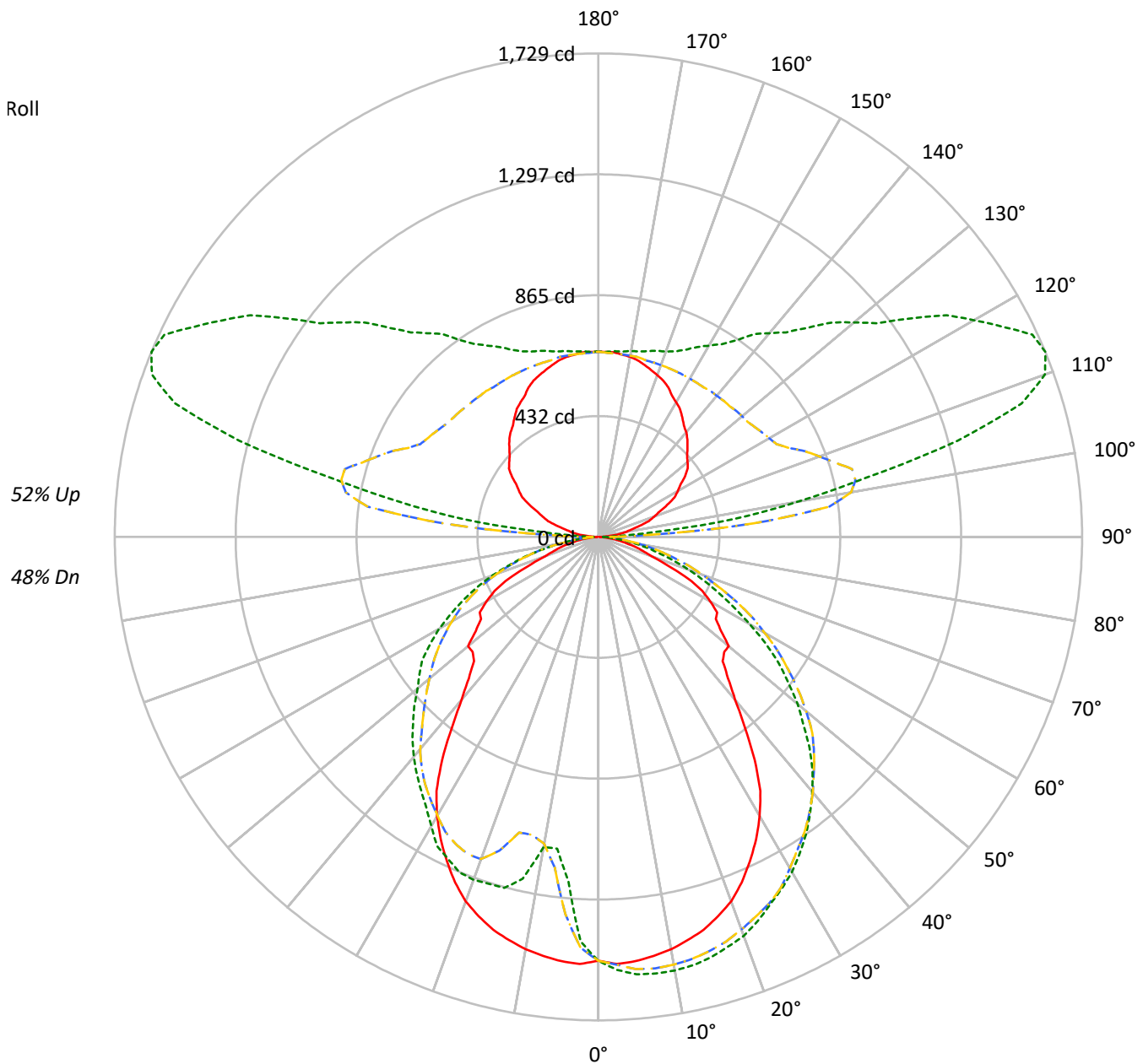
Test Method: LM-79-2019  
Report Number: P934711  
REPORT IS A COMBINATION OF REPORTS P933711 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8226.3 lumens  
Efficiency: N/A  
Efficacy: 129.3 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): 63.6  
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



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

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

	0°	90°	180°	270°
0°	9376	9376	9376	9376
5°	9443	9465	9443	7443
10°	9377	9323	9377	6666
15°	9271	9122	9271	7617
20°	9074	8882	9074	7632
25°	8674	8533	8674	7471
30°	8157	8244	8157	7116
35°	7268	7877	7268	6726
40°	6053	7446	6053	6430
45°	5405	6941	5405	6092
50°	5737	6338	5737	5751
55°	5393	5689	5393	5554
60°	5552	4832	5552	5088
65°	5026	3995	5026	4465
70°	3473	3183	3473	3743
75°	3033	2353	3033	2818
80°	2428	1556	2428	1693
85°	1365	824	1365	701

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8289 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.8	1.7
10°-20°	388.5	4.7
20°-30°	600.5	7.3
30°-40°	716.9	8.7
40°-50°	721.1	8.8
50°-60°	627.4	7.6
60°-70°	444.9	5.4
70°-80°	235.4	2.9
80°-90°	61.1	0.7
90°-100°	322.8	3.9
100°-110°	848.8	10.3
110°-120°	880.1	10.7
120°-130°	706.0	8.6
130°-140°	553.9	6.7
140°-150°	425.2	5.2
150°-160°	306.2	3.7
160°-170°	187.3	2.3
170°-180°	63.3	0.8
0°-30°	1125.8	13.7
0°-40°	1842.7	22.4
0°-60°	3191.2	38.8
0°-90°	3932.6	47.8
90°-120°	2051.8	24.9
90°-150°	3736.9	45.4
90°-180°	4294.0	52.2
0°-180°	8226.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1516	1516	1516	1516	1516	
5°	1523	1570	1523	1235	1523	144
15°	1454	1556	1454	1299	1454	409
25°	1281	1451	1281	1270	1281	588
35°	974	1295	974	1106	974	602
45°	628	1067	628	936	628	503
55°	512	787	512	769	512	470
65°	356	475	356	531	356	340
75°	135	225	135	270	135	142
85°	23	57	23	49	23	31
90°	4	17	4	17	4	5
95°	43	195	43	195	43	47
105°	153	1329	153	1329	153	162
115°	272	1711	272	1711	272	268
125°	378	1363	378	1363	378	335
135°	450	1058	450	1058	450	348
145°	522	858	522	858	522	327
155°	590	739	590	739	590	271
165°	637	688	637	688	637	180
175°	662	667	662	667	662	63
180°	662	662	662	662	662	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1528.6	1528.6	1537.2	1540.1	1540.1	1535.8	1531.5	1535.8	1548.7	1553.0	1551.6
5°	1522.9	1534.4	1550.2	1553.0	1555.9	1554.5	1551.6	1554.5	1568.8	1571.7	1573.1
7.5°	1511.4	1532.9	1553.0	1557.3	1561.6	1557.3	1555.9	1558.8	1573.1	1576.0	1576.0
10°	1497.1	1527.2	1550.2	1553.0	1557.3	1553.0	1553.0	1558.8	1573.1	1576.0	1577.4
12.5°	1477.0	1518.6	1540.1	1543.0	1548.7	1547.3	1545.9	1551.6	1565.9	1568.8	1568.8
15°	1454.1	1502.8	1522.9	1525.8	1535.8	1532.9	1532.9	1538.7	1554.5	1558.8	1557.3
17.5°	1422.5	1482.8	1505.7	1510.0	1517.2	1515.7	1517.2	1522.9	1537.2	1540.1	1541.6
20°	1386.7	1455.5	1482.8	1487.1	1494.2	1494.2	1494.2	1501.4	1515.7	1521.5	1521.5
22.5°	1337.9	1426.8	1455.5	1458.4	1467.0	1467.0	1469.8	1479.9	1492.8	1494.2	1494.2
25°	1280.6	1395.3	1419.7	1428.3	1436.9	1441.2	1445.5	1451.2	1455.5	1454.1	1455.5
27.5°	1220.3	1355.1	1386.7	1392.4	1403.9	1408.2	1413.9	1415.4	1416.8	1421.1	1418.2
30°	1152.9	1299.2	1346.5	1352.3	1370.9	1373.8	1368.0	1370.9	1378.1	1380.9	1383.8
32.5°	1076.9	1216.0	1304.9	1317.8	1335.1	1326.4	1325.0	1329.3	1340.8	1340.8	1343.7
35°	973.7	1151.5	1266.2	1277.7	1290.6	1280.6	1286.3	1287.7	1294.9	1299.2	1297.8
37.5°	860.4	1095.6	1226.1	1234.7	1244.7	1231.8	1240.4	1244.7	1250.4	1247.6	1247.6
40°	760.0	1008.1	1178.7	1184.5	1193.1	1183.0	1191.7	1194.5	1197.4	1194.5	1193.1
42.5°	685.5	912.0	1128.6	1135.7	1130.0	1137.2	1140.0	1145.8	1141.5	1135.7	1135.7
45°	628.1	886.2	1074.1	1082.7	1074.1	1085.5	1089.8	1089.8	1076.9	1074.1	1072.6
47.5°	609.4	834.6	1019.6	1019.6	1015.3	1029.6	1036.8	1026.7	1013.8	1009.5	1009.5
50°	608.0	777.2	945.0	939.3	959.3	976.6	969.4	959.3	949.3	933.5	933.5
52.5°	552.1	707.0	848.9	870.4	902.0	912.0	900.6	890.5	873.3	866.1	860.4
55°	511.9	633.8	761.5	804.5	837.5	850.4	828.9	818.8	793.0	788.7	785.8
57.5°	503.3	527.7	681.2	735.6	775.8	774.4	761.5	742.8	721.3	717.0	715.6
60°	461.7	381.4	595.1	659.6	701.2	696.9	685.5	668.2	648.2	645.3	642.4
62.5°	418.7	276.8	497.6	570.7	629.5	628.1	618.1	592.2	577.9	570.7	565.0
65°	355.6	232.3	354.2	474.7	559.3	562.1	540.6	522.0	506.2	497.6	496.2
67.5°	271.0	189.3	239.5	395.8	491.9	489.0	461.7	453.1	433.1	428.8	420.2
70°	200.8	126.2	166.3	321.2	425.9	418.7	397.2	387.2	368.5	358.5	352.8
72.5°	166.3	101.8	121.9	249.5	358.5	349.9	331.3	319.8	304.0	295.4	289.7
75°	134.8	107.6	93.2	185.0	291.1	285.4	268.2	256.7	243.8	232.3	233.7
77.5°	98.9	100.4	74.6	136.2	230.9	222.3	212.2	197.9	192.2	180.7	180.7
80°	74.6	78.9	55.9	93.2	166.3	166.3	157.7	147.7	137.7	131.9	131.9
82.5°	50.2	50.2	41.6	58.8	113.3	109.0	103.2	100.4	94.6	91.8	91.8
85°	22.9	28.7	25.8	35.8	61.7	64.5	64.5	61.7	60.2	57.4	58.8
87.5°	7.2	12.9	15.8	20.1	31.5	33.0	34.4	34.4	34.4	35.8	35.8
90°	4.4	7.9	11.6	12.4	19.5	29.0	33.7	30.0	22.6	16.9	16.9
92.5°	17.8	48.0	78.2	85.8	120.6	167.0	190.2	166.7	119.7	84.4	81.1
95°	42.6	98.0	153.2	167.1	296.7	469.7	556.1	496.3	376.5	286.7	276.6
97.5°	73.8	122.6	171.3	183.6	399.8	688.0	832.2	794.3	718.7	661.9	642.5
100°	97.8	142.1	186.3	197.4	437.3	757.2	917.1	919.9	925.4	929.5	906.5
102.5°	118.3	159.6	200.9	211.2	454.5	778.9	941.1	989.3	1085.7	1158.0	1138.2
105°	153.0	187.9	222.9	231.6	467.2	781.3	938.4	1046.4	1262.6	1424.7	1414.1
107.5°	188.5	221.1	253.7	261.8	469.6	746.5	885.1	1035.8	1337.3	1563.4	1566.0
110°	212.5	242.0	271.3	278.7	466.0	715.8	840.6	1009.2	1346.2	1599.0	1610.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	236.0	264.0	292.2	299.1	466.1	688.8	800.2	972.6	1317.6	1576.3	1593.3
115°	271.6	297.5	323.3	329.8	470.4	657.9	751.7	917.9	1250.2	1499.4	1522.9
117.5°	306.7	330.2	353.7	359.6	479.2	638.6	718.3	868.3	1168.2	1393.2	1419.3
120°	327.1	349.3	371.4	377.0	486.3	632.1	705.0	842.0	1116.0	1321.6	1347.0
122.5°	347.2	369.5	391.9	397.4	496.5	628.8	694.8	818.1	1064.9	1250.0	1275.0
125°	377.8	398.2	418.5	423.6	510.3	625.9	683.7	788.5	998.2	1155.3	1178.4
127.5°	402.8	423.3	443.8	448.9	524.1	624.3	674.4	764.3	944.3	1079.3	1098.8
130°	416.1	438.2	460.3	465.9	534.2	625.3	670.8	750.9	911.2	1031.3	1049.3
132.5°	429.8	452.0	474.1	479.6	542.3	625.9	667.7	739.4	882.9	990.4	1006.5
135°	450.3	470.4	490.6	495.7	551.2	625.3	662.3	722.4	842.5	932.6	946.4
137.5°	471.2	491.1	511.1	516.0	564.5	629.1	661.5	712.2	813.7	889.9	901.3
140°	488.5	506.9	525.3	529.9	572.7	629.8	658.3	702.2	789.9	855.7	866.3
142.5°	501.9	518.9	535.9	540.1	579.5	632.0	658.3	696.8	773.9	831.7	840.9
145°	522.4	537.2	551.9	555.6	588.4	632.1	653.9	685.5	748.5	795.7	802.6
147.5°	542.7	557.2	571.6	575.2	601.4	636.4	653.9	678.7	728.3	765.5	771.2
150°	556.1	569.1	582.2	585.5	608.3	638.7	653.9	674.8	716.7	748.2	752.8
152.5°	569.9	579.8	589.7	592.1	612.7	640.1	653.9	671.8	707.5	734.4	737.9
155°	590.3	597.6	605.0	606.8	622.5	643.4	653.9	668.1	696.6	718.0	720.3
157.5°	605.4	612.6	619.7	621.5	632.3	646.7	653.9	665.0	687.1	703.7	705.3
160°	615.7	621.2	626.8	628.1	636.7	648.2	653.9	663.4	682.3	696.5	697.5
162.5°	625.9	630.1	634.2	635.3	641.5	649.8	653.9	661.9	677.9	689.9	690.8
165°	637.0	640.8	644.5	645.5	648.3	652.0	653.9	659.6	671.1	679.7	680.7
167.5°	647.2	649.0	650.7	651.2	653.6	656.8	658.3	662.0	669.6	675.2	675.6
170°	653.9	655.7	657.4	657.9	658.0	658.2	658.3	662.0	669.6	675.2	675.2
172.5°	657.4	657.8	658.2	658.3	658.3	658.3	658.3	661.3	667.2	671.7	671.3
175°	662.3	662.3	662.3	662.3	661.0	659.2	658.3	660.2	663.9	666.8	666.8
177.5°	662.3	662.3	662.3	662.3	661.3	659.9	659.3	660.8	663.8	665.9	665.6
180°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1554.5	1550.2	1554.5	1551.6	1553.0	1548.7	1535.8	1531.5	1535.8	1540.1	1540.1
5°	1573.1	1570.2	1573.1	1573.1	1571.7	1568.8	1554.5	1551.6	1554.5	1555.9	1553.0
7.5°	1578.8	1574.5	1578.8	1576.0	1576.0	1573.1	1558.8	1555.9	1557.3	1561.6	1557.3
10°	1578.8	1574.5	1578.8	1577.4	1576.0	1573.1	1558.8	1553.0	1553.0	1557.3	1553.0
12.5°	1571.7	1568.8	1571.7	1568.8	1568.8	1565.9	1551.6	1545.9	1547.3	1548.7	1543.0
15°	1560.2	1555.9	1560.2	1557.3	1558.8	1554.5	1538.7	1532.9	1532.9	1535.8	1525.8
17.5°	1543.0	1537.2	1543.0	1541.6	1540.1	1537.2	1522.9	1517.2	1515.7	1517.2	1510.0
20°	1522.9	1518.6	1522.9	1521.5	1521.5	1515.7	1501.4	1494.2	1494.2	1494.2	1487.1
22.5°	1491.4	1487.1	1491.4	1494.2	1494.2	1492.8	1479.9	1469.8	1467.0	1467.0	1458.4
25°	1455.5	1451.2	1455.5	1455.5	1454.1	1455.5	1451.2	1445.5	1441.2	1436.9	1428.3
27.5°	1421.1	1418.2	1421.1	1418.2	1421.1	1416.8	1415.4	1413.9	1408.2	1403.9	1392.4
30°	1386.7	1383.8	1386.7	1383.8	1380.9	1378.1	1370.9	1368.0	1373.8	1370.9	1352.3
32.5°	1343.7	1340.8	1343.7	1343.7	1340.8	1340.8	1329.3	1325.0	1326.4	1335.1	1317.8
35°	1299.2	1294.9	1299.2	1297.8	1299.2	1294.9	1287.7	1286.3	1280.6	1290.6	1277.7
37.5°	1247.6	1243.3	1247.6	1247.6	1247.6	1250.4	1244.7	1240.4	1231.8	1244.7	1234.7
40°	1194.5	1188.8	1194.5	1193.1	1194.5	1197.4	1194.5	1191.7	1183.0	1193.1	1184.5
42.5°	1134.3	1132.9	1134.3	1135.7	1135.7	1141.5	1145.8	1140.0	1137.2	1130.0	1135.7
45°	1069.8	1066.9	1069.8	1072.6	1074.1	1076.9	1089.8	1089.8	1085.5	1074.1	1082.7
47.5°	1000.9	993.8	1000.9	1009.5	1009.5	1013.8	1026.7	1036.8	1029.6	1015.3	1019.6
50°	927.8	929.2	927.8	933.5	933.5	949.3	959.3	969.4	976.6	959.3	939.3
52.5°	856.1	854.7	856.1	860.4	866.1	873.3	890.5	900.6	912.0	902.0	870.4
55°	784.4	787.3	784.4	785.8	788.7	793.0	818.8	828.9	850.4	837.5	804.5
57.5°	712.7	708.4	712.7	715.6	717.0	721.3	742.8	761.5	774.4	775.8	735.6
60°	629.5	623.8	629.5	642.4	645.3	648.2	668.2	685.5	696.9	701.2	659.6
62.5°	556.4	546.4	556.4	565.0	570.7	577.9	592.2	618.1	628.1	629.5	570.7
65°	479.0	474.7	479.0	496.2	497.6	506.2	522.0	540.6	562.1	559.3	474.7
67.5°	408.7	408.7	408.7	420.2	428.8	433.1	453.1	461.7	489.0	491.9	395.8
70°	344.2	342.7	344.2	352.8	358.5	368.5	387.2	397.2	418.7	425.9	321.2
72.5°	282.5	281.1	282.5	289.7	295.4	304.0	319.8	331.3	349.9	358.5	249.5
75°	228.0	225.1	228.0	233.7	232.3	243.8	256.7	268.2	285.4	291.1	185.0
77.5°	174.9	174.9	174.9	180.7	180.7	192.2	197.9	212.2	222.3	230.9	136.2
80°	130.5	129.1	130.5	131.9	131.9	137.7	147.7	157.7	166.3	166.3	93.2
82.5°	91.8	88.9	91.8	91.8	91.8	94.6	100.4	103.2	109.0	113.3	58.8
85°	57.4	57.4	57.4	58.8	57.4	60.2	61.7	64.5	64.5	61.7	35.8
87.5°	37.3	35.8	37.3	35.8	35.8	34.4	34.4	34.4	33.0	31.5	20.1
90°	16.9	16.9	16.9	16.9	16.9	22.6	30.0	33.7	29.0	19.5	12.4
92.5°	67.6	54.2	67.6	81.1	84.4	119.7	166.7	190.2	167.0	120.6	85.8
95°	235.8	195.1	235.8	276.6	286.7	376.5	496.3	556.1	469.7	296.7	167.1
97.5°	565.1	487.7	565.1	642.5	661.9	718.7	794.3	832.2	688.0	399.8	183.6
100°	814.1	721.9	814.1	906.5	929.5	925.4	919.9	917.1	757.2	437.3	197.4
102.5°	1059.2	980.2	1059.2	1138.2	1158.0	1085.7	989.3	941.1	778.9	454.5	211.2
105°	1371.6	1329.1	1371.6	1414.1	1424.7	1262.6	1046.4	938.4	781.3	467.2	231.6
107.5°	1576.3	1586.5	1576.3	1566.0	1563.4	1337.3	1035.8	885.1	746.5	469.6	261.8
110°	1654.3	1698.5	1654.3	1610.1	1599.0	1346.2	1009.2	840.6	715.8	466.0	278.7





TEST NUMBER: P934711

CATALOG NUMBER: SQ4-FA-075U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1661.2	1729.2	1661.2	1593.3	1576.3	1317.6	972.6	800.2	688.8	466.1	299.1
115°	1617.2	1711.4	1617.2	1522.9	1499.4	1250.2	917.9	751.7	657.9	470.4	329.8
117.5°	1523.8	1628.3	1523.8	1419.3	1393.2	1168.2	868.3	718.3	638.6	479.2	359.6
120°	1448.5	1550.1	1448.5	1347.0	1321.6	1116.0	842.0	705.0	632.1	486.3	377.0
122.5°	1375.2	1475.4	1375.2	1275.0	1250.0	1064.9	818.1	694.8	628.8	496.5	397.4
125°	1270.7	1363.0	1270.7	1178.4	1155.3	998.2	788.5	683.7	625.9	510.3	423.6
127.5°	1176.6	1254.5	1176.6	1098.8	1079.3	944.3	764.3	674.4	624.3	524.1	448.9
130°	1121.2	1193.1	1121.2	1049.3	1031.3	911.2	750.9	670.8	625.3	534.2	465.9
132.5°	1070.9	1135.3	1070.9	1006.5	990.4	882.9	739.4	667.7	625.9	542.3	479.6
135°	1002.0	1057.5	1002.0	946.4	932.6	842.5	722.4	662.3	625.3	551.2	495.7
137.5°	946.7	992.2	946.7	901.3	889.9	813.7	712.2	661.5	629.1	564.5	516.0
140°	908.9	951.3	908.9	866.3	855.7	789.9	702.2	658.3	629.8	572.7	529.9
142.5°	877.4	913.9	877.4	840.9	831.7	773.9	696.8	658.3	632.0	579.5	540.1
145°	830.3	857.9	830.3	802.6	795.7	748.5	685.5	653.9	632.1	588.4	555.6
147.5°	794.1	817.0	794.1	771.2	765.5	728.3	678.7	653.9	636.4	601.4	575.2
150°	771.4	789.9	771.4	752.8	748.2	716.7	674.8	653.9	638.7	608.3	585.5
152.5°	751.9	765.9	751.9	737.9	734.4	707.5	671.8	653.9	640.1	612.7	592.1
155°	729.5	738.8	729.5	720.3	718.0	696.6	668.1	653.9	643.4	622.5	606.8
157.5°	711.8	718.3	711.8	705.3	703.7	687.1	665.0	653.9	646.7	632.3	621.5
160°	701.2	705.0	701.2	697.5	696.5	682.3	663.4	653.9	648.2	636.7	628.1
162.5°	694.3	697.9	694.3	690.8	689.9	677.9	661.9	653.9	649.8	641.5	635.3
165°	684.4	688.1	684.4	680.7	679.7	671.1	659.6	653.9	652.0	648.3	645.5
167.5°	677.2	678.8	677.2	675.6	675.2	669.6	662.0	658.3	656.8	653.6	651.2
170°	675.2	675.2	675.2	675.2	675.2	669.6	662.0	658.3	658.2	658.0	657.9
172.5°	670.0	668.5	670.0	671.3	671.7	667.2	661.3	658.3	658.3	658.3	658.3
175°	666.8	666.8	666.8	666.8	666.8	663.9	660.2	658.3	659.2	661.0	662.3
177.5°	663.9	662.3	663.9	665.6	665.9	663.8	660.8	659.3	659.9	661.3	662.3
180°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3



TEST NUMBER: P934711

CATALOG NUMBER: SQ4-FA-075U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1537.2	1528.6	1528.6	1514.3	1508.6	1504.3	1497.1	1475.6	1469.8	1464.1	1472.7
5°	1550.2	1534.4	1522.9	1497.1	1475.6	1467.0	1439.7	1388.1	1353.7	1327.9	1313.5
7.5°	1553.0	1532.9	1511.4	1471.3	1419.7	1396.7	1313.5	1218.9	1193.1	1170.1	1155.8
10°	1550.2	1527.2	1497.1	1436.9	1315.0	1274.8	1191.7	1130.0	1114.2	1109.9	1114.2
12.5°	1540.1	1518.6	1477.0	1376.6	1206.0	1178.7	1130.0	1094.1	1091.3	1098.4	1137.2
15°	1522.9	1502.8	1454.1	1296.3	1145.8	1125.7	1091.3	1078.4	1094.1	1144.3	1260.5
17.5°	1505.7	1482.8	1422.5	1217.5	1099.9	1085.5	1061.2	1087.0	1175.9	1243.3	1282.0
20°	1482.8	1455.5	1386.7	1160.1	1066.9	1054.0	1042.5	1158.7	1226.1	1250.4	1272.0
22.5°	1455.5	1426.8	1337.9	1120.0	1032.5	1022.4	1029.6	1198.8	1226.1	1243.3	1261.9
25°	1419.7	1395.3	1280.6	1088.4	1005.2	993.8	1021.0	1194.5	1210.3	1214.6	1251.9
27.5°	1386.7	1355.1	1220.3	1059.7	972.3	968.0	1028.2	1175.9	1187.4	1191.7	1231.8
30°	1346.5	1299.2	1152.9	1029.6	937.8	936.4	1029.6	1152.9	1150.1	1161.5	1201.7
32.5°	1304.9	1216.0	1076.9	992.3	904.9	903.4	1019.6	1118.5	1115.7	1131.4	1161.5
35°	1266.2	1151.5	973.7	949.3	863.3	864.7	995.2	1078.4	1079.8	1094.1	1112.8
37.5°	1226.1	1095.6	860.4	902.0	823.1	823.1	962.2	1041.1	1038.2	1042.5	1068.3
40°	1178.7	1008.1	760.0	840.3	785.8	781.5	922.1	1000.9	990.9	989.5	1025.3
42.5°	1128.6	912.0	685.5	758.6	742.8	737.1	873.3	952.2	933.5	937.8	983.7
45°	1074.1	886.2	628.1	641.0	698.4	694.1	820.2	896.2	883.3	894.8	942.1
47.5°	1019.6	834.6	609.4	532.0	651.0	649.6	761.5	841.8	834.6	846.1	896.2
50°	945.0	777.2	608.0	456.0	598.0	603.7	691.2	788.7	788.7	798.7	851.8
52.5°	848.9	707.0	552.1	413.0	536.3	553.5	629.5	742.8	745.7	755.7	803.0
55°	761.5	633.8	511.9	380.0	463.2	500.5	569.3	695.5	701.2	711.3	754.3
57.5°	681.2	527.7	503.3	341.3	395.8	431.6	516.2	649.6	652.5	661.1	702.7
60°	595.1	381.4	461.7	299.7	337.0	364.2	467.5	595.1	605.1	610.9	646.7
62.5°	497.6	276.8	418.7	271.0	308.3	314.0	427.3	543.5	556.4	560.7	582.2
65°	354.2	232.3	355.6	246.6	278.2	279.6	384.3	490.4	501.9	509.1	524.8
67.5°	239.5	189.3	271.0	223.7	255.3	256.7	342.7	428.8	444.5	450.3	460.3
70°	166.3	126.2	200.8	199.3	229.4	232.3	298.3	372.8	387.2	391.5	397.2
72.5°	121.9	101.8	166.3	179.2	202.2	205.1	252.4	309.7	324.1	328.4	331.3
75°	93.2	107.6	134.8	156.3	172.1	173.5	206.5	252.4	262.4	265.3	266.7
77.5°	74.6	100.4	98.9	126.2	140.5	137.7	162.0	195.0	203.6	203.6	203.6
80°	55.9	78.9	74.6	90.3	103.2	100.4	116.2	139.1	142.0	144.8	143.4
82.5°	41.6	50.2	50.2	57.4	68.8	66.0	77.4	90.3	90.3	90.3	93.2
85°	25.8	28.7	22.9	30.1	38.7	37.3	43.0	48.8	50.2	50.2	47.3
87.5°	15.8	12.9	7.2	11.5	17.2	17.2	20.1	21.5	20.1	20.1	20.1
90°	11.6	7.9	4.4	7.9	11.6	12.4	19.5	29.0	33.7	30.0	22.6
92.5°	78.2	48.0	17.8	48.0	78.2	85.8	120.6	167.0	190.2	166.7	119.7
95°	153.2	98.0	42.6	98.0	153.2	167.1	296.7	469.7	556.1	496.3	376.5
97.5°	171.3	122.6	73.8	122.6	171.3	183.6	399.8	688.0	832.2	794.3	718.7
100°	186.3	142.1	97.8	142.1	186.3	197.4	437.3	757.2	917.1	919.9	925.4
102.5°	200.9	159.6	118.3	159.6	200.9	211.2	454.5	778.9	941.1	989.3	1085.7
105°	222.9	187.9	153.0	187.9	222.9	231.6	467.2	781.3	938.4	1046.4	1262.6
107.5°	253.7	221.1	188.5	221.1	253.7	261.8	469.6	746.5	885.1	1035.8	1337.3
110°	271.3	242.0	212.5	242.0	271.3	278.7	466.0	715.8	840.6	1009.2	1346.2



TEST NUMBER: P934711

CATALOG NUMBER: SQ4-FA-075U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	292.2	264.0	236.0	264.0	292.2	299.1	466.1	688.8	800.2	972.6	1317.6
115°	323.3	297.5	271.6	297.5	323.3	329.8	470.4	657.9	751.7	917.9	1250.2
117.5°	353.7	330.2	306.7	330.2	353.7	359.6	479.2	638.6	718.3	868.3	1168.2
120°	371.4	349.3	327.1	349.3	371.4	377.0	486.3	632.1	705.0	842.0	1116.0
122.5°	391.9	369.5	347.2	369.5	391.9	397.4	496.5	628.8	694.8	818.1	1064.9
125°	418.5	398.2	377.8	398.2	418.5	423.6	510.3	625.9	683.7	788.5	998.2
127.5°	443.8	423.3	402.8	423.3	443.8	448.9	524.1	624.3	674.4	764.3	944.3
130°	460.3	438.2	416.1	438.2	460.3	465.9	534.2	625.3	670.8	750.9	911.2
132.5°	474.1	452.0	429.8	452.0	474.1	479.6	542.3	625.9	667.7	739.4	882.9
135°	490.6	470.4	450.3	470.4	490.6	495.7	551.2	625.3	662.3	722.4	842.5
137.5°	511.1	491.1	471.2	491.1	511.1	516.0	564.5	629.1	661.5	712.2	813.7
140°	525.3	506.9	488.5	506.9	525.3	529.9	572.7	629.8	658.3	702.2	789.9
142.5°	535.9	518.9	501.9	518.9	535.9	540.1	579.5	632.0	658.3	696.8	773.9
145°	551.9	537.2	522.4	537.2	551.9	555.6	588.4	632.1	653.9	685.5	748.5
147.5°	571.6	557.2	542.7	557.2	571.6	575.2	601.4	636.4	653.9	678.7	728.3
150°	582.2	569.1	556.1	569.1	582.2	585.5	608.3	638.7	653.9	674.8	716.7
152.5°	589.7	579.8	569.9	579.8	589.7	592.1	612.7	640.1	653.9	671.8	707.5
155°	605.0	597.6	590.3	597.6	605.0	606.8	622.5	643.4	653.9	668.1	696.6
157.5°	619.7	612.6	605.4	612.6	619.7	621.5	632.3	646.7	653.9	665.0	687.1
160°	626.8	621.2	615.7	621.2	626.8	628.1	636.7	648.2	653.9	663.4	682.3
162.5°	634.2	630.1	625.9	630.1	634.2	635.3	641.5	649.8	653.9	661.9	677.9
165°	644.5	640.8	637.0	640.8	644.5	645.5	648.3	652.0	653.9	659.6	671.1
167.5°	650.7	649.0	647.2	649.0	650.7	651.2	653.6	656.8	658.3	662.0	669.6
170°	657.4	655.7	653.9	655.7	657.4	657.9	658.0	658.2	658.3	662.0	669.6
172.5°	658.2	657.8	657.4	657.8	658.2	658.3	658.3	658.3	658.3	661.3	667.2
175°	662.3	662.3	662.3	662.3	662.3	662.3	661.0	659.2	658.3	660.2	663.9
177.5°	662.3	662.3	662.3	662.3	662.3	662.3	661.3	659.9	659.3	660.8	663.8
180°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3



TEST NUMBER: P934711  
 CATALOG NUMBER: SQ4-FA-075U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1462.7	1458.4	1464.1	1448.3	1464.1	1458.4	1462.7	1472.7	1464.1	1469.8	1475.6
5°	1283.4	1276.3	1253.3	1234.7	1253.3	1276.3	1283.4	1313.5	1327.9	1353.7	1388.1
7.5°	1147.2	1141.5	1135.7	1124.3	1135.7	1141.5	1147.2	1155.8	1170.1	1193.1	1218.9
10°	1117.1	1118.5	1127.1	1125.7	1127.1	1118.5	1117.1	1114.2	1109.9	1114.2	1130.0
12.5°	1194.5	1207.4	1254.8	1251.9	1254.8	1207.4	1194.5	1137.2	1098.4	1091.3	1094.1
15°	1283.4	1287.7	1297.8	1299.2	1297.8	1287.7	1283.4	1260.5	1144.3	1094.1	1078.4
17.5°	1292.0	1293.5	1300.6	1300.6	1300.6	1293.5	1292.0	1282.0	1243.3	1175.9	1087.0
20°	1284.9	1287.7	1302.1	1304.9	1302.1	1287.7	1284.9	1272.0	1250.4	1226.1	1158.7
22.5°	1282.0	1287.7	1299.2	1297.8	1299.2	1287.7	1282.0	1261.9	1243.3	1226.1	1198.8
25°	1267.7	1267.7	1269.1	1270.5	1269.1	1267.7	1267.7	1251.9	1214.6	1210.3	1194.5
27.5°	1237.5	1240.4	1249.0	1247.6	1249.0	1240.4	1237.5	1231.8	1191.7	1187.4	1175.9
30°	1210.3	1207.4	1200.3	1194.5	1200.3	1207.4	1210.3	1201.7	1161.5	1150.1	1152.9
32.5°	1164.4	1157.2	1150.1	1145.8	1150.1	1157.2	1164.4	1161.5	1131.4	1115.7	1118.5
35°	1109.9	1111.4	1109.9	1105.6	1109.9	1111.4	1109.9	1112.8	1094.1	1079.8	1078.4
37.5°	1071.2	1074.1	1072.6	1066.9	1072.6	1074.1	1071.2	1068.3	1042.5	1038.2	1041.1
40°	1031.0	1032.5	1031.0	1026.7	1031.0	1032.5	1031.0	1025.3	989.5	990.9	1000.9
42.5°	992.3	990.9	986.6	983.7	986.6	990.9	992.3	983.7	937.8	933.5	952.2
45°	947.9	949.3	940.7	936.4	940.7	949.3	947.9	942.1	894.8	883.3	896.2
47.5°	903.4	903.4	896.2	891.9	896.2	903.4	903.4	896.2	846.1	834.6	841.8
50°	856.1	854.7	844.6	843.2	844.6	854.7	856.1	851.8	798.7	788.7	788.7
52.5°	801.6	801.6	803.0	805.9	803.0	801.6	801.6	803.0	755.7	745.7	742.8
55°	754.3	755.7	765.8	768.6	765.8	755.7	754.3	754.3	711.3	701.2	695.5
57.5°	705.5	705.5	712.7	712.7	712.7	705.5	705.5	702.7	661.1	652.5	649.6
60°	649.6	652.5	658.2	656.8	658.2	652.5	649.6	646.7	610.9	605.1	595.1
62.5°	590.8	593.7	595.1	592.2	595.1	593.7	590.8	582.2	560.7	556.4	543.5
65°	529.1	532.0	533.4	530.6	533.4	532.0	529.1	524.8	509.1	501.9	490.4
67.5°	466.0	464.6	463.2	468.9	463.2	464.6	466.0	460.3	450.3	444.5	428.8
70°	401.5	401.5	400.1	403.0	400.1	401.5	401.5	397.2	391.5	387.2	372.8
72.5°	332.7	331.3	337.0	332.7	337.0	331.3	332.7	331.3	328.4	324.1	309.7
75°	265.3	268.2	265.3	269.6	265.3	268.2	265.3	266.7	265.3	262.4	252.4
77.5°	202.2	205.1	202.2	202.2	202.2	205.1	202.2	203.6	203.6	203.6	195.0
80°	143.4	142.0	142.0	140.5	142.0	142.0	143.4	143.4	144.8	142.0	139.1
82.5°	91.8	90.3	90.3	93.2	90.3	90.3	91.8	93.2	90.3	90.3	90.3
85°	50.2	51.6	48.8	48.8	48.8	51.6	50.2	47.3	50.2	50.2	48.8
87.5°	18.6	17.2	17.2	17.2	17.2	17.2	18.6	20.1	20.1	20.1	21.5
90°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	22.6	30.0	33.7	29.0
92.5°	84.4	81.1	67.6	54.2	67.6	81.1	84.4	119.7	166.7	190.2	167.0
95°	286.7	276.6	235.8	195.1	235.8	276.6	286.7	376.5	496.3	556.1	469.7
97.5°	661.9	642.5	565.1	487.7	565.1	642.5	661.9	718.7	794.3	832.2	688.0
100°	929.5	906.5	814.1	721.9	814.1	906.5	929.5	925.4	919.9	917.1	757.2
102.5°	1158.0	1138.2	1059.2	980.2	1059.2	1138.2	1158.0	1085.7	989.3	941.1	778.9
105°	1424.7	1414.1	1371.6	1329.1	1371.6	1414.1	1424.7	1262.6	1046.4	938.4	781.3
107.5°	1563.4	1566.0	1576.3	1586.5	1576.3	1566.0	1563.4	1337.3	1035.8	885.1	746.5
110°	1599.0	1610.1	1654.3	1698.5	1654.3	1610.1	1599.0	1346.2	1009.2	840.6	715.8



TEST NUMBER: P934711

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1576.3	1593.3	1661.2	1729.2	1661.2	1593.3	1576.3	1317.6	972.6	800.2	688.8
115°	1499.4	1522.9	1617.2	1711.4	1617.2	1522.9	1499.4	1250.2	917.9	751.7	657.9
117.5°	1393.2	1419.3	1523.8	1628.3	1523.8	1419.3	1393.2	1168.2	868.3	718.3	638.6
120°	1321.6	1347.0	1448.5	1550.1	1448.5	1347.0	1321.6	1116.0	842.0	705.0	632.1
122.5°	1250.0	1275.0	1375.2	1475.4	1375.2	1275.0	1250.0	1064.9	818.1	694.8	628.8
125°	1155.3	1178.4	1270.7	1363.0	1270.7	1178.4	1155.3	998.2	788.5	683.7	625.9
127.5°	1079.3	1098.8	1176.6	1254.5	1176.6	1098.8	1079.3	944.3	764.3	674.4	624.3
130°	1031.3	1049.3	1121.2	1193.1	1121.2	1049.3	1031.3	911.2	750.9	670.8	625.3
132.5°	990.4	1006.5	1070.9	1135.3	1070.9	1006.5	990.4	882.9	739.4	667.7	625.9
135°	932.6	946.4	1002.0	1057.5	1002.0	946.4	932.6	842.5	722.4	662.3	625.3
137.5°	889.9	901.3	946.7	992.2	946.7	901.3	889.9	813.7	712.2	661.5	629.1
140°	855.7	866.3	908.9	951.3	908.9	866.3	855.7	789.9	702.2	658.3	629.8
142.5°	831.7	840.9	877.4	913.9	877.4	840.9	831.7	773.9	696.8	658.3	632.0
145°	795.7	802.6	830.3	857.9	830.3	802.6	795.7	748.5	685.5	653.9	632.1
147.5°	765.5	771.2	794.1	817.0	794.1	771.2	765.5	728.3	678.7	653.9	636.4
150°	748.2	752.8	771.4	789.9	771.4	752.8	748.2	716.7	674.8	653.9	638.7
152.5°	734.4	737.9	751.9	765.9	751.9	737.9	734.4	707.5	671.8	653.9	640.1
155°	718.0	720.3	729.5	738.8	729.5	720.3	718.0	696.6	668.1	653.9	643.4
157.5°	703.7	705.3	711.8	718.3	711.8	705.3	703.7	687.1	665.0	653.9	646.7
160°	696.5	697.5	701.2	705.0	701.2	697.5	696.5	682.3	663.4	653.9	648.2
162.5°	689.9	690.8	694.3	697.9	694.3	690.8	689.9	677.9	661.9	653.9	649.8
165°	679.7	680.7	684.4	688.1	684.4	680.7	679.7	671.1	659.6	653.9	652.0
167.5°	675.2	675.6	677.2	678.8	677.2	675.6	675.2	669.6	662.0	658.3	656.8
170°	675.2	675.2	675.2	675.2	675.2	675.2	675.2	669.6	662.0	658.3	658.2
172.5°	671.7	671.3	670.0	668.5	670.0	671.3	671.7	667.2	661.3	658.3	658.3
175°	666.8	666.8	666.8	666.8	666.8	666.8	666.8	663.9	660.2	658.3	659.2
177.5°	665.9	665.6	663.9	662.3	663.9	665.6	665.9	663.8	660.8	659.3	659.9
180°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3



TEST NUMBER: P934711

CATALOG NUMBER: SQ4-FA-075U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1497.1	1504.3	1508.6	1514.3	1528.6
5°	1439.7	1467.0	1475.6	1497.1	1522.9
7.5°	1313.5	1396.7	1419.7	1471.3	1511.4
10°	1191.7	1274.8	1315.0	1436.9	1497.1
12.5°	1130.0	1178.7	1206.0	1376.6	1477.0
15°	1091.3	1125.7	1145.8	1296.3	1454.1
17.5°	1061.2	1085.5	1099.9	1217.5	1422.5
20°	1042.5	1054.0	1066.9	1160.1	1386.7
22.5°	1029.6	1022.4	1032.5	1120.0	1337.9
25°	1021.0	993.8	1005.2	1088.4	1280.6
27.5°	1028.2	968.0	972.3	1059.7	1220.3
30°	1029.6	936.4	937.8	1029.6	1152.9
32.5°	1019.6	903.4	904.9	992.3	1076.9
35°	995.2	864.7	863.3	949.3	973.7
37.5°	962.2	823.1	823.1	902.0	860.4
40°	922.1	781.5	785.8	840.3	760.0
42.5°	873.3	737.1	742.8	758.6	685.5
45°	820.2	694.1	698.4	641.0	628.1
47.5°	761.5	649.6	651.0	532.0	609.4
50°	691.2	603.7	598.0	456.0	608.0
52.5°	629.5	553.5	536.3	413.0	552.1
55°	569.3	500.5	463.2	380.0	511.9
57.5°	516.2	431.6	395.8	341.3	503.3
60°	467.5	364.2	337.0	299.7	461.7
62.5°	427.3	314.0	308.3	271.0	418.7
65°	384.3	279.6	278.2	246.6	355.6
67.5°	342.7	256.7	255.3	223.7	271.0
70°	298.3	232.3	229.4	199.3	200.8
72.5°	252.4	205.1	202.2	179.2	166.3
75°	206.5	173.5	172.1	156.3	134.8
77.5°	162.0	137.7	140.5	126.2	98.9
80°	116.2	100.4	103.2	90.3	74.6
82.5°	77.4	66.0	68.8	57.4	50.2
85°	43.0	37.3	38.7	30.1	22.9
87.5°	20.1	17.2	17.2	11.5	7.2
90°	19.5	12.4	11.6	7.9	4.4
92.5°	120.6	85.8	78.2	48.0	17.8
95°	296.7	167.1	153.2	98.0	42.6
97.5°	399.8	183.6	171.3	122.6	73.8
100°	437.3	197.4	186.3	142.1	97.8
102.5°	454.5	211.2	200.9	159.6	118.3
105°	467.2	231.6	222.9	187.9	153.0
107.5°	469.6	261.8	253.7	221.1	188.5
110°	466.0	278.7	271.3	242.0	212.5



TEST NUMBER: P934711

CATALOG NUMBER: SQ4-FA-075U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	466.1	299.1	292.2	264.0	236.0
115°	470.4	329.8	323.3	297.5	271.6
117.5°	479.2	359.6	353.7	330.2	306.7
120°	486.3	377.0	371.4	349.3	327.1
122.5°	496.5	397.4	391.9	369.5	347.2
125°	510.3	423.6	418.5	398.2	377.8
127.5°	524.1	448.9	443.8	423.3	402.8
130°	534.2	465.9	460.3	438.2	416.1
132.5°	542.3	479.6	474.1	452.0	429.8
135°	551.2	495.7	490.6	470.4	450.3
137.5°	564.5	516.0	511.1	491.1	471.2
140°	572.7	529.9	525.3	506.9	488.5
142.5°	579.5	540.1	535.9	518.9	501.9
145°	588.4	555.6	551.9	537.2	522.4
147.5°	601.4	575.2	571.6	557.2	542.7
150°	608.3	585.5	582.2	569.1	556.1
152.5°	612.7	592.1	589.7	579.8	569.9
155°	622.5	606.8	605.0	597.6	590.3
157.5°	632.3	621.5	619.7	612.6	605.4
160°	636.7	628.1	626.8	621.2	615.7
162.5°	641.5	635.3	634.2	630.1	625.9
165°	648.3	645.5	644.5	640.8	637.0
167.5°	653.6	651.2	650.7	649.0	647.2
170°	658.0	657.9	657.4	655.7	653.9
172.5°	658.3	658.3	658.2	657.8	657.4
175°	661.0	662.3	662.3	662.3	662.3
177.5°	661.3	662.3	662.3	662.3	662.3
180°	662.3	662.3	662.3	662.3	662.3



TEST NUMBER: P934711  
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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	12.37	13.21	13.35	14.20	15.51	15.20	16.04	16.17	17.03	18.33
	3H	12.85	13.60	13.83	14.60	15.92	16.54	17.29	17.53	18.29	19.62
	4H	13.04	13.75	14.04	14.75	16.09	16.98	17.70	17.98	18.70	20.03
	6H	13.16	13.81	14.17	14.82	16.17	17.26	17.92	18.27	18.93	20.27
	8H	13.16	13.78	14.17	14.81	16.15	17.34	17.96	18.35	18.99	20.33
	12H	13.13	13.72	14.15	14.74	16.11	17.37	17.97	18.40	18.99	20.35
4H	2H	13.40	14.12	14.41	15.12	16.45	15.60	16.32	16.61	17.32	18.65
	3H	14.43	15.02	15.44	16.05	17.40	17.11	17.70	18.12	18.73	20.08
	4H	14.70	15.25	15.73	16.27	17.64	17.63	18.18	18.66	19.20	20.57
	6H	14.83	15.29	15.86	16.34	17.71	17.99	18.46	19.03	19.51	20.87
	8H	14.83	15.27	15.87	16.31	17.69	18.10	18.54	19.14	19.58	20.96
	12H	14.80	15.19	15.85	16.25	17.63	18.16	18.55	19.21	19.60	20.99
8H	4H	15.15	15.59	16.19	16.63	18.01	17.76	18.19	18.79	19.23	20.61
	6H	15.41	15.78	16.47	16.86	18.23	18.19	18.55	19.25	19.63	21.01
	8H	15.46	15.77	16.52	16.84	18.24	18.34	18.66	19.41	19.72	21.12
	12H	15.44	15.72	16.51	16.78	18.22	18.44	18.72	19.51	19.78	21.22
12H	4H	15.16	15.55	16.21	16.61	17.99	17.72	18.11	18.77	19.17	20.55
	6H	15.47	15.79	16.54	16.86	18.25	18.19	18.50	19.25	19.57	20.97
	8H	15.54	15.82	16.61	16.88	18.32	18.35	18.63	19.42	19.69	21.12