

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: P934311

Luminaire Tested: SQ4-FA-050U-075D-830-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

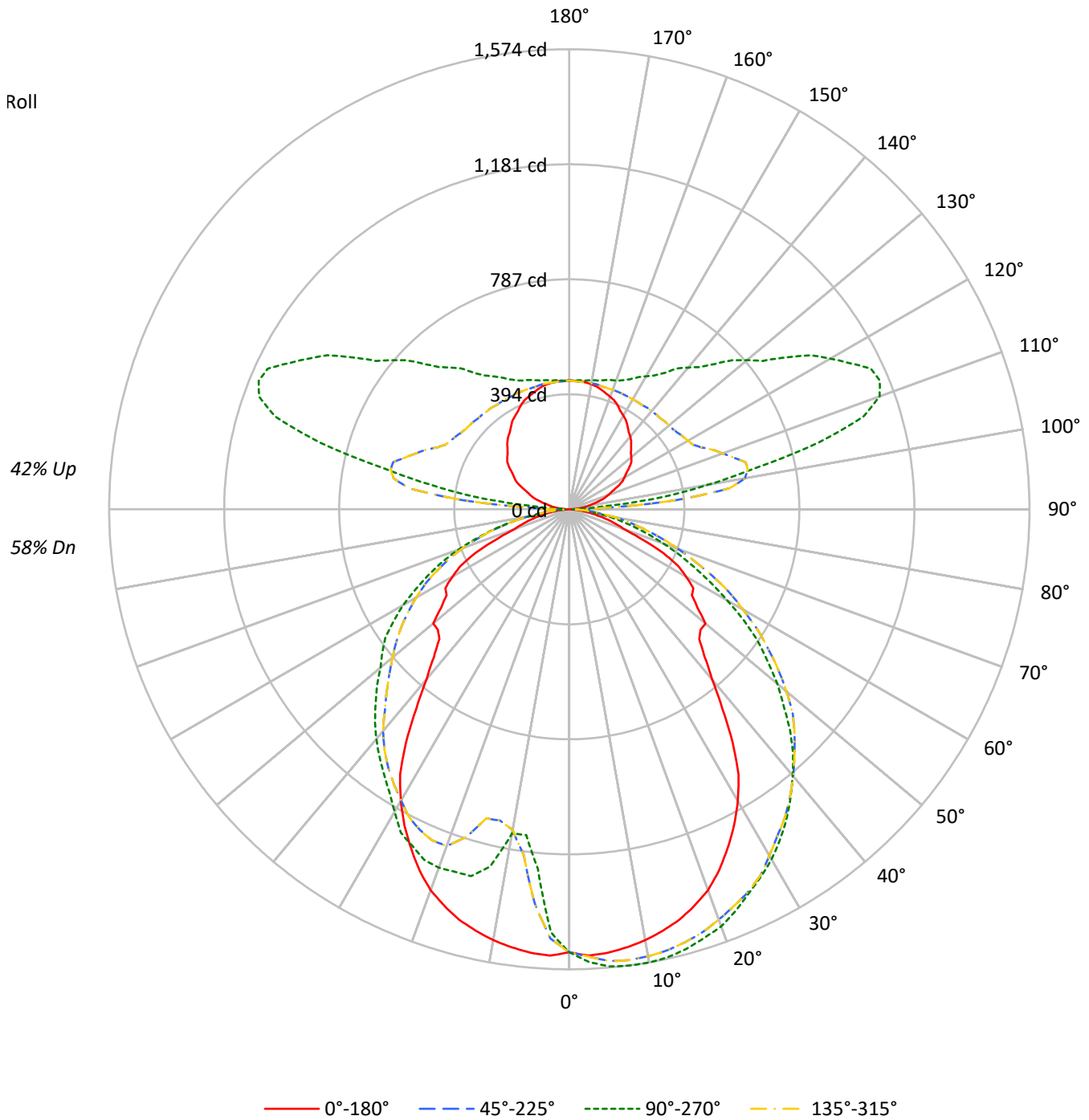
Test Method: LM-79-2019  
Report Number: P934311  
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6786.6 lumens  
Efficiency: N/A  
Efficacy: 124.3 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): 54.6  
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





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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			

**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	2.0
10°-20°	388.5	5.7
20°-30°	600.5	8.8
30°-40°	716.9	10.6
40°-50°	721.1	10.6
50°-60°	627.4	9.2
60°-70°	444.9	6.6
70°-80°	235.4	3.5
80°-90°	60.3	0.9
90°-100°	214.7	3.2
100°-110°	564.4	8.3
110°-120°	585.2	8.6
120°-130°	469.4	6.9
130°-140°	368.3	5.4
140°-150°	282.7	4.2
150°-160°	203.6	3.0
160°-170°	124.6	1.8
170°-180°	42.1	0.6
0°-30°	1125.8	16.6
0°-40°	1842.7	27.2
0°-60°	3191.2	47.0
0°-90°	3931.7	57.9
90°-120°	1364.2	20.1
90°-150°	2484.6	36.6
90°-180°	2855.0	42.1
0°-180°	6786.6	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°	3	11	3	11	3	3
95°	28	130	28	130	28	32
105°	102	884	102	884	102	108
115°	181	1138	181	1138	181	178
125°	251	906	251	906	251	223
135°	299	703	299	703	299	232
145°	347	570	347	570	347	218
155°	392	491	392	491	392	180
165°	424	458	424	458	424	120
175°	440	443	440	443	440	42
180°	440	440	440	440	440	



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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°	3.0	5.4	7.7	8.3	13.0	19.3	22.5	20.0	14.9	11.2	11.2
92.5°	11.9	31.9	52.0	57.1	80.2	111.1	126.5	110.8	79.5	56.1	53.9
95°	28.4	65.1	101.9	111.1	197.3	312.3	369.8	330.0	250.4	190.6	183.8
97.5°	49.0	81.5	114.0	122.1	265.9	457.5	553.3	528.2	477.8	440.0	427.1
100°	65.0	94.5	123.9	131.3	290.7	503.4	609.7	611.6	615.3	618.1	602.8
102.5°	78.6	106.1	133.6	140.4	302.2	517.9	625.7	657.7	721.9	770.0	756.9
105°	101.7	124.9	148.2	154.0	310.6	519.5	623.9	695.8	839.5	947.3	940.2
107.5°	125.3	147.0	168.6	174.1	312.2	496.4	588.4	688.6	889.1	1039.5	1041.2
110°	141.3	160.8	180.4	185.3	309.8	475.9	558.9	670.9	895.1	1063.2	1070.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.0	175.6	194.3	198.9	309.9	458.0	532.0	646.7	876.1	1048.1	1059.3
115°	180.6	197.8	215.0	219.3	312.8	437.5	499.8	610.3	831.2	996.9	1012.6
117.5°	203.9	219.6	235.2	239.1	318.6	424.7	477.6	577.3	776.8	926.3	943.7
120°	217.5	232.2	246.9	250.7	323.3	420.3	468.7	559.8	742.0	878.7	895.6
122.5°	230.9	245.7	260.5	264.2	330.1	418.0	461.9	544.0	708.1	831.1	847.8
125°	251.2	264.7	278.3	281.6	339.3	416.1	454.6	524.3	663.7	768.1	783.4
127.5°	267.8	281.4	295.1	298.6	348.5	415.1	448.4	508.2	627.8	717.6	730.5
130°	276.7	291.4	306.1	309.7	355.2	415.7	446.0	499.2	605.8	685.7	697.7
132.5°	285.8	300.6	315.3	318.9	360.6	416.1	444.0	491.7	587.0	658.5	669.2
135°	299.4	312.8	326.2	329.5	366.5	415.8	440.4	480.4	560.2	620.1	629.3
137.5°	313.3	326.6	339.8	343.1	375.3	418.2	439.8	473.5	541.0	591.7	599.2
140°	324.8	337.1	349.2	352.3	380.8	418.7	437.8	466.9	525.2	568.9	576.0
142.5°	333.6	344.9	356.2	359.1	385.3	420.3	437.8	463.4	514.5	553.0	559.1
145°	347.3	357.2	367.0	369.5	391.3	420.3	434.8	455.7	497.6	529.1	533.6
147.5°	360.9	370.4	380.1	382.5	399.9	423.1	434.8	451.2	484.2	509.0	512.8
150°	369.8	378.5	387.1	389.3	404.5	424.7	434.8	448.7	476.6	497.4	500.5
152.5°	378.9	385.5	392.1	393.7	407.4	425.6	434.8	446.6	470.4	488.2	490.5
155°	392.5	397.4	402.2	403.4	413.9	427.8	434.8	444.3	463.2	477.3	478.9
157.5°	402.6	407.3	412.0	413.2	420.4	430.0	434.8	442.2	456.9	467.9	468.9
160°	409.4	413.0	416.6	417.6	423.3	431.0	434.8	441.1	453.7	463.2	463.8
162.5°	416.1	418.9	421.7	422.4	426.5	432.0	434.8	440.1	450.8	458.7	459.3
165°	423.5	426.0	428.5	429.1	431.1	433.5	434.8	438.6	446.2	451.9	452.6
167.5°	430.3	431.4	432.7	433.0	434.6	436.7	437.8	440.2	445.2	448.9	449.2
170°	434.8	435.9	437.2	437.5	437.6	437.7	437.8	440.2	445.2	448.9	448.9
172.5°	437.2	437.5	437.7	437.8	437.8	437.8	437.8	439.7	443.6	446.5	446.4
175°	440.4	440.4	440.4	440.4	439.6	438.3	437.8	439.0	441.5	443.3	443.3
177.5°	440.4	440.4	440.4	440.4	439.8	438.8	438.3	439.3	441.3	442.7	442.4
180°	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4



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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°	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.5	19.3	13.0	8.3
92.5°	44.9	36.0	44.9	53.9	56.1	79.5	110.8	126.5	111.1	80.2	57.1
95°	156.8	129.7	156.8	183.8	190.6	250.4	330.0	369.8	312.3	197.3	111.1
97.5°	375.7	324.3	375.7	427.1	440.0	477.8	528.2	553.3	457.5	265.9	122.1
100°	541.4	480.0	541.4	602.8	618.1	615.3	611.6	609.7	503.4	290.7	131.3
102.5°	704.3	651.7	704.3	756.9	770.0	721.9	657.7	625.7	517.9	302.2	140.4
105°	912.0	883.7	912.0	940.2	947.3	839.5	695.8	623.9	519.5	310.6	154.0
107.5°	1048.0	1054.9	1048.0	1041.2	1039.5	889.1	688.6	588.4	496.4	312.2	174.1
110°	1099.9	1129.3	1099.9	1070.5	1063.2	895.1	670.9	558.9	475.9	309.8	185.3





TEST NUMBER: P934311

CATALOG NUMBER: SQ4-FA-050U-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°	1104.6	1149.7	1104.6	1059.3	1048.1	876.1	646.7	532.0	458.0	309.9	198.9
115°	1075.2	1137.9	1075.2	1012.6	996.9	831.2	610.3	499.8	437.5	312.8	219.3
117.5°	1013.2	1082.7	1013.2	943.7	926.3	776.8	577.3	477.6	424.7	318.6	239.1
120°	963.1	1030.7	963.1	895.6	878.7	742.0	559.8	468.7	420.3	323.3	250.7
122.5°	914.4	981.0	914.4	847.8	831.1	708.1	544.0	461.9	418.0	330.1	264.2
125°	844.8	906.2	844.8	783.4	768.1	663.7	524.3	454.6	416.1	339.3	281.6
127.5°	782.3	834.1	782.3	730.5	717.6	627.8	508.2	448.4	415.1	348.5	298.6
130°	745.5	793.3	745.5	697.7	685.7	605.8	499.2	446.0	415.7	355.2	309.7
132.5°	712.0	754.9	712.0	669.2	658.5	587.0	491.7	444.0	416.1	360.6	318.9
135°	666.2	703.1	666.2	629.3	620.1	560.2	480.4	440.4	415.8	366.5	329.5
137.5°	629.5	659.7	629.5	599.2	591.7	541.0	473.5	439.8	418.2	375.3	343.1
140°	604.2	632.5	604.2	576.0	568.9	525.2	466.9	437.8	418.7	380.8	352.3
142.5°	583.4	607.6	583.4	559.1	553.0	514.5	463.4	437.8	420.3	385.3	359.1
145°	552.1	570.4	552.1	533.6	529.1	497.6	455.7	434.8	420.3	391.3	369.5
147.5°	528.0	543.2	528.0	512.8	509.0	484.2	451.2	434.8	423.1	399.9	382.5
150°	512.9	525.2	512.9	500.5	497.4	476.6	448.7	434.8	424.7	404.5	389.3
152.5°	499.9	509.3	499.9	490.5	488.2	470.4	446.6	434.8	425.6	407.4	393.7
155°	485.1	491.2	485.1	478.9	477.3	463.2	444.3	434.8	427.8	413.9	403.4
157.5°	473.3	477.6	473.3	468.9	467.9	456.9	442.2	434.8	430.0	420.4	413.2
160°	466.2	468.7	466.2	463.8	463.2	453.7	441.1	434.8	431.0	423.3	417.6
162.5°	461.7	464.0	461.7	459.3	458.7	450.8	440.1	434.8	432.0	426.5	422.4
165°	455.1	457.5	455.1	452.6	451.9	446.2	438.6	434.8	433.5	431.1	429.1
167.5°	450.3	451.3	450.3	449.2	448.9	445.2	440.2	437.8	436.7	434.6	433.0
170°	448.9	448.9	448.9	448.9	448.9	445.2	440.2	437.8	437.7	437.6	437.5
172.5°	445.4	444.5	445.4	446.4	446.5	443.6	439.7	437.8	437.8	437.8	437.8
175°	443.3	443.3	443.3	443.3	443.3	441.5	439.0	437.8	438.3	439.6	440.4
177.5°	441.5	440.4	441.5	442.4	442.7	441.3	439.3	438.3	438.8	439.8	440.4
180°	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4



TEST NUMBER: P934311

CATALOG NUMBER: SQ4-FA-050U-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°	7.7	5.4	3.0	5.4	7.7	8.3	13.0	19.3	22.5	20.0	14.9
92.5°	52.0	31.9	11.9	31.9	52.0	57.1	80.2	111.1	126.5	110.8	79.5
95°	101.9	65.1	28.4	65.1	101.9	111.1	197.3	312.3	369.8	330.0	250.4
97.5°	114.0	81.5	49.0	81.5	114.0	122.1	265.9	457.5	553.3	528.2	477.8
100°	123.9	94.5	65.0	94.5	123.9	131.3	290.7	503.4	609.7	611.6	615.3
102.5°	133.6	106.1	78.6	106.1	133.6	140.4	302.2	517.9	625.7	657.7	721.9
105°	148.2	124.9	101.7	124.9	148.2	154.0	310.6	519.5	623.9	695.8	839.5
107.5°	168.6	147.0	125.3	147.0	168.6	174.1	312.2	496.4	588.4	688.6	889.1
110°	180.4	160.8	141.3	160.8	180.4	185.3	309.8	475.9	558.9	670.9	895.1



TEST NUMBER: P934311

CATALOG NUMBER: SQ4-FA-050U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.3	175.6	157.0	175.6	194.3	198.9	309.9	458.0	532.0	646.7	876.1
115°	215.0	197.8	180.6	197.8	215.0	219.3	312.8	437.5	499.8	610.3	831.2
117.5°	235.2	219.6	203.9	219.6	235.2	239.1	318.6	424.7	477.6	577.3	776.8
120°	246.9	232.2	217.5	232.2	246.9	250.7	323.3	420.3	468.7	559.8	742.0
122.5°	260.5	245.7	230.9	245.7	260.5	264.2	330.1	418.0	461.9	544.0	708.1
125°	278.3	264.7	251.2	264.7	278.3	281.6	339.3	416.1	454.6	524.3	663.7
127.5°	295.1	281.4	267.8	281.4	295.1	298.6	348.5	415.1	448.4	508.2	627.8
130°	306.1	291.4	276.7	291.4	306.1	309.7	355.2	415.7	446.0	499.2	605.8
132.5°	315.3	300.6	285.8	300.6	315.3	318.9	360.6	416.1	444.0	491.7	587.0
135°	326.2	312.8	299.4	312.8	326.2	329.5	366.5	415.8	440.4	480.4	560.2
137.5°	339.8	326.6	313.3	326.6	339.8	343.1	375.3	418.2	439.8	473.5	541.0
140°	349.2	337.1	324.8	337.1	349.2	352.3	380.8	418.7	437.8	466.9	525.2
142.5°	356.2	344.9	333.6	344.9	356.2	359.1	385.3	420.3	437.8	463.4	514.5
145°	367.0	357.2	347.3	357.2	367.0	369.5	391.3	420.3	434.8	455.7	497.6
147.5°	380.1	370.4	360.9	370.4	380.1	382.5	399.9	423.1	434.8	451.2	484.2
150°	387.1	378.5	369.8	378.5	387.1	389.3	404.5	424.7	434.8	448.7	476.6
152.5°	392.1	385.5	378.9	385.5	392.1	393.7	407.4	425.6	434.8	446.6	470.4
155°	402.2	397.4	392.5	397.4	402.2	403.4	413.9	427.8	434.8	444.3	463.2
157.5°	412.0	407.3	402.6	407.3	412.0	413.2	420.4	430.0	434.8	442.2	456.9
160°	416.6	413.0	409.4	413.0	416.6	417.6	423.3	431.0	434.8	441.1	453.7
162.5°	421.7	418.9	416.1	418.9	421.7	422.4	426.5	432.0	434.8	440.1	450.8
165°	428.5	426.0	423.5	426.0	428.5	429.1	431.1	433.5	434.8	438.6	446.2
167.5°	432.7	431.4	430.3	431.4	432.7	433.0	434.6	436.7	437.8	440.2	445.2
170°	437.2	435.9	434.8	435.9	437.2	437.5	437.6	437.7	437.8	440.2	445.2
172.5°	437.7	437.5	437.2	437.5	437.7	437.8	437.8	437.8	437.8	439.7	443.6
175°	440.4	440.4	440.4	440.4	440.4	440.4	439.6	438.3	437.8	439.0	441.5
177.5°	440.4	440.4	440.4	440.4	440.4	440.4	439.8	438.8	438.3	439.3	441.3
180°	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4



TEST NUMBER: P934311  
 CATALOG NUMBER: SQ4-FA-050U-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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	14.9	20.0	22.5	19.3
92.5°	56.1	53.9	44.9	36.0	44.9	53.9	56.1	79.5	110.8	126.5	111.1
95°	190.6	183.8	156.8	129.7	156.8	183.8	190.6	250.4	330.0	369.8	312.3
97.5°	440.0	427.1	375.7	324.3	375.7	427.1	440.0	477.8	528.2	553.3	457.5
100°	618.1	602.8	541.4	480.0	541.4	602.8	618.1	615.3	611.6	609.7	503.4
102.5°	770.0	756.9	704.3	651.7	704.3	756.9	770.0	721.9	657.7	625.7	517.9
105°	947.3	940.2	912.0	883.7	912.0	940.2	947.3	839.5	695.8	623.9	519.5
107.5°	1039.5	1041.2	1048.0	1054.9	1048.0	1041.2	1039.5	889.1	688.6	588.4	496.4
110°	1063.2	1070.5	1099.9	1129.3	1099.9	1070.5	1063.2	895.1	670.9	558.9	475.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1048.1	1059.3	1104.6	1149.7	1104.6	1059.3	1048.1	876.1	646.7	532.0	458.0
115°	996.9	1012.6	1075.2	1137.9	1075.2	1012.6	996.9	831.2	610.3	499.8	437.5
117.5°	926.3	943.7	1013.2	1082.7	1013.2	943.7	926.3	776.8	577.3	477.6	424.7
120°	878.7	895.6	963.1	1030.7	963.1	895.6	878.7	742.0	559.8	468.7	420.3
122.5°	831.1	847.8	914.4	981.0	914.4	847.8	831.1	708.1	544.0	461.9	418.0
125°	768.1	783.4	844.8	906.2	844.8	783.4	768.1	663.7	524.3	454.6	416.1
127.5°	717.6	730.5	782.3	834.1	782.3	730.5	717.6	627.8	508.2	448.4	415.1
130°	685.7	697.7	745.5	793.3	745.5	697.7	685.7	605.8	499.2	446.0	415.7
132.5°	658.5	669.2	712.0	754.9	712.0	669.2	658.5	587.0	491.7	444.0	416.1
135°	620.1	629.3	666.2	703.1	666.2	629.3	620.1	560.2	480.4	440.4	415.8
137.5°	591.7	599.2	629.5	659.7	629.5	599.2	591.7	541.0	473.5	439.8	418.2
140°	568.9	576.0	604.2	632.5	604.2	576.0	568.9	525.2	466.9	437.8	418.7
142.5°	553.0	559.1	583.4	607.6	583.4	559.1	553.0	514.5	463.4	437.8	420.3
145°	529.1	533.6	552.1	570.4	552.1	533.6	529.1	497.6	455.7	434.8	420.3
147.5°	509.0	512.8	528.0	543.2	528.0	512.8	509.0	484.2	451.2	434.8	423.1
150°	497.4	500.5	512.9	525.2	512.9	500.5	497.4	476.6	448.7	434.8	424.7
152.5°	488.2	490.5	499.9	509.3	499.9	490.5	488.2	470.4	446.6	434.8	425.6
155°	477.3	478.9	485.1	491.2	485.1	478.9	477.3	463.2	444.3	434.8	427.8
157.5°	467.9	468.9	473.3	477.6	473.3	468.9	467.9	456.9	442.2	434.8	430.0
160°	463.2	463.8	466.2	468.7	466.2	463.8	463.2	453.7	441.1	434.8	431.0
162.5°	458.7	459.3	461.7	464.0	461.7	459.3	458.7	450.8	440.1	434.8	432.0
165°	451.9	452.6	455.1	457.5	455.1	452.6	451.9	446.2	438.6	434.8	433.5
167.5°	448.9	449.2	450.3	451.3	450.3	449.2	448.9	445.2	440.2	437.8	436.7
170°	448.9	448.9	448.9	448.9	448.9	448.9	448.9	445.2	440.2	437.8	437.7
172.5°	446.5	446.4	445.4	444.5	445.4	446.4	446.5	443.6	439.7	437.8	437.8
175°	443.3	443.3	443.3	443.3	443.3	443.3	443.3	441.5	439.0	437.8	438.3
177.5°	442.7	442.4	441.5	440.4	441.5	442.4	442.7	441.3	439.3	438.3	438.8
180°	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4



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**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°	13.0	8.3	7.7	5.4	3.0
92.5°	80.2	57.1	52.0	31.9	11.9
95°	197.3	111.1	101.9	65.1	28.4
97.5°	265.9	122.1	114.0	81.5	49.0
100°	290.7	131.3	123.9	94.5	65.0
102.5°	302.2	140.4	133.6	106.1	78.6
105°	310.6	154.0	148.2	124.9	101.7
107.5°	312.2	174.1	168.6	147.0	125.3
110°	309.8	185.3	180.4	160.8	141.3



TEST NUMBER: P934311

CATALOG NUMBER: SQ4-FA-050U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	309.9	198.9	194.3	175.6	157.0
115°	312.8	219.3	215.0	197.8	180.6
117.5°	318.6	239.1	235.2	219.6	203.9
120°	323.3	250.7	246.9	232.2	217.5
122.5°	330.1	264.2	260.5	245.7	230.9
125°	339.3	281.6	278.3	264.7	251.2
127.5°	348.5	298.6	295.1	281.4	267.8
130°	355.2	309.7	306.1	291.4	276.7
132.5°	360.6	318.9	315.3	300.6	285.8
135°	366.5	329.5	326.2	312.8	299.4
137.5°	375.3	343.1	339.8	326.6	313.3
140°	380.8	352.3	349.2	337.1	324.8
142.5°	385.3	359.1	356.2	344.9	333.6
145°	391.3	369.5	367.0	357.2	347.3
147.5°	399.9	382.5	380.1	370.4	360.9
150°	404.5	389.3	387.1	378.5	369.8
152.5°	407.4	393.7	392.1	385.5	378.9
155°	413.9	403.4	402.2	397.4	392.5
157.5°	420.4	413.2	412.0	407.3	402.6
160°	423.3	417.6	416.6	413.0	409.4
162.5°	426.5	422.4	421.7	418.9	416.1
165°	431.1	429.1	428.5	426.0	423.5
167.5°	434.6	433.0	432.7	431.4	430.3
170°	437.6	437.5	437.2	435.9	434.8
172.5°	437.8	437.8	437.7	437.5	437.2
175°	439.6	440.4	440.4	440.4	440.4
177.5°	439.8	440.4	440.4	440.4	440.4
180°	440.4	440.4	440.4	440.4	440.4



TEST NUMBER: P934311  
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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	13.28	14.22	14.17	15.13	16.28	16.11	17.04	16.99	17.95	19.10
	3H	13.76	14.60	14.66	15.52	16.70	17.46	18.30	18.35	19.21	20.39
	4H	13.96	14.75	14.87	15.67	16.86	17.90	18.70	18.82	19.62	20.81
	6H	14.08	14.81	15.01	15.74	16.94	18.19	18.92	19.11	19.85	21.05
	8H	14.09	14.78	15.02	15.73	16.93	18.26	18.96	19.20	19.91	21.11
	12H	14.06	14.72	15.00	15.66	16.89	18.31	18.97	19.24	19.91	21.13
4H	2H	14.32	15.12	15.24	16.04	17.23	16.52	17.32	17.44	18.24	19.43
	3H	15.36	16.02	16.29	16.97	18.17	18.04	18.70	18.96	19.65	20.85
	4H	15.64	16.24	16.58	17.19	18.41	18.57	19.17	19.51	20.12	21.34
	6H	15.76	16.29	16.72	17.26	18.48	18.93	19.45	19.89	20.43	21.65
	8H	15.77	16.26	16.73	17.22	18.47	19.04	19.53	20.00	20.49	21.73
	12H	15.74	16.18	16.72	17.16	18.41	19.10	19.54	20.08	20.52	21.77
8H	4H	16.09	16.58	17.05	17.55	18.79	18.70	19.18	19.65	20.15	21.39
	6H	16.36	16.76	17.34	17.77	19.01	19.13	19.54	20.12	20.54	21.78
	8H	16.40	16.76	17.39	17.75	19.01	19.29	19.64	20.28	20.64	21.90
	12H	16.39	16.70	17.38	17.69	19.00	19.39	19.70	20.38	20.69	21.99
12H	4H	16.10	16.54	17.08	17.52	18.77	18.66	19.10	19.64	20.08	21.33
	6H	16.42	16.78	17.41	17.77	19.03	19.13	19.49	20.12	20.48	21.74
	8H	16.49	16.80	17.48	17.79	19.10	19.30	19.61	20.29	20.60	21.90