

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: P933911

Luminaire Tested: SQ4-FA-025U-075D-830-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

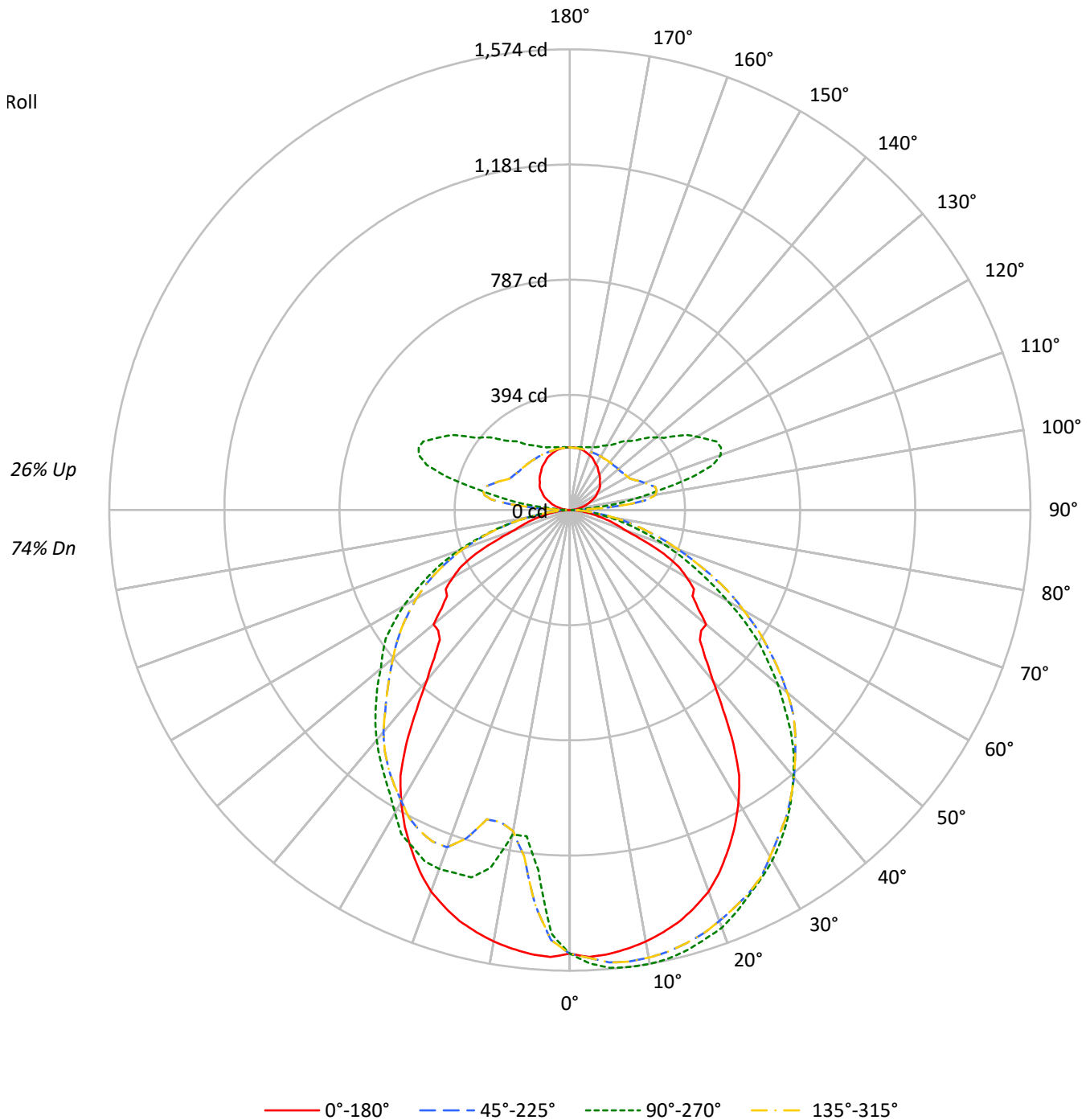
Test Method: LM-79-2019  
Report Number: P933911  
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5318.1 lumens  
Efficiency: N/A  
Efficacy: 118.2 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: Semi-Direct  
  
Input Watts (W): 45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74					74			
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62					62			
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52					52			
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44					44			
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38					38			
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33					33			
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29					29			
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26					26			
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23					23			
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21					21			
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19					19			

**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	2.6
10°-20°	388.5	7.3
20°-30°	600.5	11.3
30°-40°	716.9	13.5
40°-50°	721.1	13.6
50°-60°	627.4	11.8
60°-70°	444.9	8.4
70°-80°	235.4	4.4
80°-90°	59.4	1.1
90°-100°	104.3	2.0
100°-110°	274.2	5.2
110°-120°	284.4	5.3
120°-130°	228.1	4.3
130°-140°	179.0	3.4
140°-150°	137.4	2.6
150°-160°	98.9	1.9
160°-170°	60.5	1.1
170°-180°	20.5	0.4
0°-30°	1125.8	21.2
0°-40°	1842.7	34.6
0°-60°	3191.2	60.0
0°-90°	3930.8	73.9
90°-120°	662.9	12.5
90°-150°	1207.4	22.7
90°-180°	1387.0	26.1
0°-180°	5318.1	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°	1	5	1	5	1	2
95°	14	63	14	63	14	15
105°	49	429	49	429	49	52
115°	88	553	88	553	88	87
125°	122	440	122	440	122	108
135°	146	342	146	342	146	113
145°	169	277	169	277	169	106
155°	191	239	191	239	191	88
165°	206	222	206	222	206	58
175°	214	216	214	216	214	20
180°	214	214	214	214	214	



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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°	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.7	7.3	5.4	5.4
92.5°	5.7	15.5	25.2	27.7	39.0	54.0	61.5	53.8	38.6	27.2	26.2
95°	13.8	31.6	49.5	54.0	95.9	151.7	179.6	160.3	121.6	92.6	89.4
97.5°	23.8	39.6	55.4	59.3	129.2	222.3	268.8	256.6	232.2	213.9	207.6
100°	31.6	45.9	60.2	63.8	141.3	244.6	296.3	297.1	298.9	300.3	292.8
102.5°	38.2	51.6	64.9	68.3	146.8	251.6	304.0	319.6	350.8	374.2	367.8
105°	49.4	60.7	72.0	74.9	151.0	252.4	303.1	338.0	407.9	460.3	456.9
107.5°	60.9	71.4	81.9	84.6	151.7	241.2	285.9	334.7	432.1	505.2	506.0
110°	68.6	78.2	87.7	90.1	150.6	231.3	271.6	326.1	435.0	516.6	520.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	76.3	85.4	94.4	96.7	150.6	222.6	258.5	314.2	425.7	509.3	514.7
115°	87.8	96.2	104.5	106.6	152.0	212.5	242.8	296.6	403.9	484.4	492.1
117.5°	99.1	106.7	114.2	116.2	154.8	206.3	232.1	280.6	377.4	450.1	458.5
120°	105.7	112.9	120.0	121.8	157.2	204.3	227.8	272.1	360.6	427.0	435.3
122.5°	112.1	119.4	126.6	128.4	160.4	203.2	224.5	264.3	344.1	403.9	412.0
125°	122.1	128.7	135.3	136.9	164.9	202.3	220.9	254.8	322.6	373.3	380.8
127.5°	130.1	136.7	143.4	145.0	169.3	201.7	217.9	246.9	305.2	348.7	355.1
130°	134.4	141.6	148.7	150.5	172.6	202.0	216.7	242.6	294.4	333.2	339.0
132.5°	138.9	146.1	153.2	155.0	175.2	202.3	215.8	238.9	285.3	320.0	325.1
135°	145.5	152.0	158.5	160.1	178.1	202.1	214.0	233.5	272.3	301.3	305.8
137.5°	152.3	158.7	165.1	166.7	182.4	203.3	213.8	230.2	263.0	287.6	291.2
140°	157.8	163.8	169.7	171.2	185.1	203.5	212.7	226.9	255.3	276.5	279.9
142.5°	162.1	167.6	173.1	174.5	187.2	204.2	212.7	225.1	250.1	268.7	271.7
145°	168.7	173.5	178.3	179.5	190.1	204.2	211.3	221.4	241.8	257.1	259.3
147.5°	175.3	180.0	184.7	185.8	194.4	205.6	211.3	219.3	235.3	247.3	249.1
150°	179.6	183.8	188.1	189.2	196.6	206.4	211.3	218.1	231.5	241.7	243.2
152.5°	184.1	187.3	190.5	191.3	198.0	206.9	211.3	217.0	228.6	237.3	238.4
155°	190.7	193.1	195.5	196.1	201.1	207.9	211.3	215.9	225.0	231.9	232.7
157.5°	195.6	197.9	200.2	200.8	204.3	209.0	211.3	214.8	222.0	227.3	227.9
160°	198.9	200.8	202.5	203.0	205.7	209.5	211.3	214.3	220.5	225.0	225.3
162.5°	202.2	203.5	204.9	205.3	207.3	209.9	211.3	213.9	219.0	222.9	223.2
165°	205.8	207.0	208.2	208.5	209.5	210.7	211.3	213.1	216.8	219.6	219.9
167.5°	209.1	209.7	210.2	210.4	211.2	212.2	212.7	214.0	216.3	218.2	218.3
170°	211.3	211.8	212.4	212.5	212.6	212.7	212.7	214.0	216.3	218.2	218.2
172.5°	212.4	212.5	212.7	212.7	212.7	212.7	212.7	213.7	215.6	217.0	216.9
175°	214.0	214.0	214.0	214.0	213.6	213.0	212.7	213.3	214.5	215.5	215.5
177.5°	214.0	214.0	214.0	214.0	213.7	213.2	213.0	213.5	214.4	215.2	215.1
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



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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°	5.4	5.4	5.4	5.4	5.4	7.3	9.7	10.9	9.4	6.3	4.0
92.5°	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.5	54.0	39.0	27.7
95°	76.2	63.1	76.2	89.4	92.6	121.6	160.3	179.6	151.7	95.9	54.0
97.5°	182.6	157.5	182.6	207.6	213.9	232.2	256.6	268.8	222.3	129.2	59.3
100°	263.1	233.3	263.1	292.8	300.3	298.9	297.1	296.3	244.6	141.3	63.8
102.5°	342.2	316.7	342.2	367.8	374.2	350.8	319.6	304.0	251.6	146.8	68.3
105°	443.2	429.4	443.2	456.9	460.3	407.9	338.0	303.1	252.4	151.0	74.9
107.5°	509.3	512.6	509.3	506.0	505.2	432.1	334.7	285.9	241.2	151.7	84.6
110°	534.5	548.8	534.5	520.2	516.6	435.0	326.1	271.6	231.3	150.6	90.1





TEST NUMBER: P933911

CATALOG NUMBER: SQ4-FA-025U-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°	536.7	558.7	536.7	514.7	509.3	425.7	314.2	258.5	222.6	150.6	96.7
115°	522.5	553.0	522.5	492.1	484.4	403.9	296.6	242.8	212.5	152.0	106.6
117.5°	492.3	526.1	492.3	458.5	450.1	377.4	280.6	232.1	206.3	154.8	116.2
120°	468.1	500.8	468.1	435.3	427.0	360.6	272.1	227.8	204.3	157.2	121.8
122.5°	444.3	476.7	444.3	412.0	403.9	344.1	264.3	224.5	203.2	160.4	128.4
125°	410.5	440.3	410.5	380.8	373.3	322.6	254.8	220.9	202.3	164.9	136.9
127.5°	380.2	405.3	380.2	355.1	348.7	305.2	246.9	217.9	201.7	169.3	145.0
130°	362.2	385.5	362.2	339.0	333.2	294.4	242.6	216.7	202.0	172.6	150.5
132.5°	346.0	366.8	346.0	325.1	320.0	285.3	238.9	215.8	202.3	175.2	155.0
135°	323.7	341.7	323.7	305.8	301.3	272.3	233.5	214.0	202.1	178.1	160.1
137.5°	305.9	320.5	305.9	291.2	287.6	263.0	230.2	213.8	203.3	182.4	166.7
140°	293.6	307.4	293.6	279.9	276.5	255.3	226.9	212.7	203.5	185.1	171.2
142.5°	283.5	295.3	283.5	271.7	268.7	250.1	225.1	212.7	204.2	187.2	174.5
145°	268.3	277.2	268.3	259.3	257.1	241.8	221.4	211.3	204.2	190.1	179.5
147.5°	256.6	264.0	256.6	249.1	247.3	235.3	219.3	211.3	205.6	194.4	185.8
150°	249.2	255.3	249.2	243.2	241.7	231.5	218.1	211.3	206.4	196.6	189.2
152.5°	242.9	247.5	242.9	238.4	237.3	228.6	217.0	211.3	206.9	198.0	191.3
155°	235.7	238.7	235.7	232.7	231.9	225.0	215.9	211.3	207.9	201.1	196.1
157.5°	230.0	232.1	230.0	227.9	227.3	222.0	214.8	211.3	209.0	204.3	200.8
160°	226.6	227.8	226.6	225.3	225.0	220.5	214.3	211.3	209.5	205.7	203.0
162.5°	224.4	225.5	224.4	223.2	222.9	219.0	213.9	211.3	209.9	207.3	205.3
165°	221.1	222.4	221.1	219.9	219.6	216.8	213.1	211.3	210.7	209.5	208.5
167.5°	218.8	219.3	218.8	218.3	218.2	216.3	214.0	212.7	212.2	211.2	210.4
170°	218.2	218.2	218.2	218.2	218.2	216.3	214.0	212.7	212.7	212.6	212.5
172.5°	216.4	216.1	216.4	216.9	217.0	215.6	213.7	212.7	212.7	212.7	212.7
175°	215.5	215.5	215.5	215.5	215.5	214.5	213.3	212.7	213.0	213.6	214.0
177.5°	214.5	214.0	214.5	215.1	215.2	214.4	213.5	213.0	213.2	213.7	214.0
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



TEST NUMBER: P933911

CATALOG NUMBER: SQ4-FA-025U-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°	3.7	2.6	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.7	7.3
92.5°	25.2	15.5	5.7	15.5	25.2	27.7	39.0	54.0	61.5	53.8	38.6
95°	49.5	31.6	13.8	31.6	49.5	54.0	95.9	151.7	179.6	160.3	121.6
97.5°	55.4	39.6	23.8	39.6	55.4	59.3	129.2	222.3	268.8	256.6	232.2
100°	60.2	45.9	31.6	45.9	60.2	63.8	141.3	244.6	296.3	297.1	298.9
102.5°	64.9	51.6	38.2	51.6	64.9	68.3	146.8	251.6	304.0	319.6	350.8
105°	72.0	60.7	49.4	60.7	72.0	74.9	151.0	252.4	303.1	338.0	407.9
107.5°	81.9	71.4	60.9	71.4	81.9	84.6	151.7	241.2	285.9	334.7	432.1
110°	87.7	78.2	68.6	78.2	87.7	90.1	150.6	231.3	271.6	326.1	435.0



TEST NUMBER: P933911

CATALOG NUMBER: SQ4-FA-025U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	94.4	85.4	76.3	85.4	94.4	96.7	150.6	222.6	258.5	314.2	425.7
115°	104.5	96.2	87.8	96.2	104.5	106.6	152.0	212.5	242.8	296.6	403.9
117.5°	114.2	106.7	99.1	106.7	114.2	116.2	154.8	206.3	232.1	280.6	377.4
120°	120.0	112.9	105.7	112.9	120.0	121.8	157.2	204.3	227.8	272.1	360.6
122.5°	126.6	119.4	112.1	119.4	126.6	128.4	160.4	203.2	224.5	264.3	344.1
125°	135.3	128.7	122.1	128.7	135.3	136.9	164.9	202.3	220.9	254.8	322.6
127.5°	143.4	136.7	130.1	136.7	143.4	145.0	169.3	201.7	217.9	246.9	305.2
130°	148.7	141.6	134.4	141.6	148.7	150.5	172.6	202.0	216.7	242.6	294.4
132.5°	153.2	146.1	138.9	146.1	153.2	155.0	175.2	202.3	215.8	238.9	285.3
135°	158.5	152.0	145.5	152.0	158.5	160.1	178.1	202.1	214.0	233.5	272.3
137.5°	165.1	158.7	152.3	158.7	165.1	166.7	182.4	203.3	213.8	230.2	263.0
140°	169.7	163.8	157.8	163.8	169.7	171.2	185.1	203.5	212.7	226.9	255.3
142.5°	173.1	167.6	162.1	167.6	173.1	174.5	187.2	204.2	212.7	225.1	250.1
145°	178.3	173.5	168.7	173.5	178.3	179.5	190.1	204.2	211.3	221.4	241.8
147.5°	184.7	180.0	175.3	180.0	184.7	185.8	194.4	205.6	211.3	219.3	235.3
150°	188.1	183.8	179.6	183.8	188.1	189.2	196.6	206.4	211.3	218.1	231.5
152.5°	190.5	187.3	184.1	187.3	190.5	191.3	198.0	206.9	211.3	217.0	228.6
155°	195.5	193.1	190.7	193.1	195.5	196.1	201.1	207.9	211.3	215.9	225.0
157.5°	200.2	197.9	195.6	197.9	200.2	200.8	204.3	209.0	211.3	214.8	222.0
160°	202.5	200.8	198.9	200.8	202.5	203.0	205.7	209.5	211.3	214.3	220.5
162.5°	204.9	203.5	202.2	203.5	204.9	205.3	207.3	209.9	211.3	213.9	219.0
165°	208.2	207.0	205.8	207.0	208.2	208.5	209.5	210.7	211.3	213.1	216.8
167.5°	210.2	209.7	209.1	209.7	210.2	210.4	211.2	212.2	212.7	214.0	216.3
170°	212.4	211.8	211.3	211.8	212.4	212.5	212.6	212.7	212.7	214.0	216.3
172.5°	212.7	212.5	212.4	212.5	212.7	212.7	212.7	212.7	212.7	213.7	215.6
175°	214.0	214.0	214.0	214.0	214.0	214.0	213.6	213.0	212.7	213.3	214.5
177.5°	214.0	214.0	214.0	214.0	214.0	214.0	213.7	213.2	213.0	213.5	214.4
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



TEST NUMBER: P933911  
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**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°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.3	9.7	10.9	9.4
92.5°	27.2	26.2	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.5	54.0
95°	92.6	89.4	76.2	63.1	76.2	89.4	92.6	121.6	160.3	179.6	151.7
97.5°	213.9	207.6	182.6	157.5	182.6	207.6	213.9	232.2	256.6	268.8	222.3
100°	300.3	292.8	263.1	233.3	263.1	292.8	300.3	298.9	297.1	296.3	244.6
102.5°	374.2	367.8	342.2	316.7	342.2	367.8	374.2	350.8	319.6	304.0	251.6
105°	460.3	456.9	443.2	429.4	443.2	456.9	460.3	407.9	338.0	303.1	252.4
107.5°	505.2	506.0	509.3	512.6	509.3	506.0	505.2	432.1	334.7	285.9	241.2
110°	516.6	520.2	534.5	548.8	534.5	520.2	516.6	435.0	326.1	271.6	231.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	509.3	514.7	536.7	558.7	536.7	514.7	509.3	425.7	314.2	258.5	222.6
115°	484.4	492.1	522.5	553.0	522.5	492.1	484.4	403.9	296.6	242.8	212.5
117.5°	450.1	458.5	492.3	526.1	492.3	458.5	450.1	377.4	280.6	232.1	206.3
120°	427.0	435.3	468.1	500.8	468.1	435.3	427.0	360.6	272.1	227.8	204.3
122.5°	403.9	412.0	444.3	476.7	444.3	412.0	403.9	344.1	264.3	224.5	203.2
125°	373.3	380.8	410.5	440.3	410.5	380.8	373.3	322.6	254.8	220.9	202.3
127.5°	348.7	355.1	380.2	405.3	380.2	355.1	348.7	305.2	246.9	217.9	201.7
130°	333.2	339.0	362.2	385.5	362.2	339.0	333.2	294.4	242.6	216.7	202.0
132.5°	320.0	325.1	346.0	366.8	346.0	325.1	320.0	285.3	238.9	215.8	202.3
135°	301.3	305.8	323.7	341.7	323.7	305.8	301.3	272.3	233.5	214.0	202.1
137.5°	287.6	291.2	305.9	320.5	305.9	291.2	287.6	263.0	230.2	213.8	203.3
140°	276.5	279.9	293.6	307.4	293.6	279.9	276.5	255.3	226.9	212.7	203.5
142.5°	268.7	271.7	283.5	295.3	283.5	271.7	268.7	250.1	225.1	212.7	204.2
145°	257.1	259.3	268.3	277.2	268.3	259.3	257.1	241.8	221.4	211.3	204.2
147.5°	247.3	249.1	256.6	264.0	256.6	249.1	247.3	235.3	219.3	211.3	205.6
150°	241.7	243.2	249.2	255.3	249.2	243.2	241.7	231.5	218.1	211.3	206.4
152.5°	237.3	238.4	242.9	247.5	242.9	238.4	237.3	228.6	217.0	211.3	206.9
155°	231.9	232.7	235.7	238.7	235.7	232.7	231.9	225.0	215.9	211.3	207.9
157.5°	227.3	227.9	230.0	232.1	230.0	227.9	227.3	222.0	214.8	211.3	209.0
160°	225.0	225.3	226.6	227.8	226.6	225.3	225.0	220.5	214.3	211.3	209.5
162.5°	222.9	223.2	224.4	225.5	224.4	223.2	222.9	219.0	213.9	211.3	209.9
165°	219.6	219.9	221.1	222.4	221.1	219.9	219.6	216.8	213.1	211.3	210.7
167.5°	218.2	218.3	218.8	219.3	218.8	218.3	218.2	216.3	214.0	212.7	212.2
170°	218.2	218.2	218.2	218.2	218.2	218.2	218.2	216.3	214.0	212.7	212.7
172.5°	217.0	216.9	216.4	216.1	216.4	216.9	217.0	215.6	213.7	212.7	212.7
175°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	214.5	213.3	212.7	213.0
177.5°	215.2	215.1	214.5	214.0	214.5	215.1	215.2	214.4	213.5	213.0	213.2
180°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0



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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°	6.3	4.0	3.7	2.6	1.4
92.5°	39.0	27.7	25.2	15.5	5.7
95°	95.9	54.0	49.5	31.6	13.8
97.5°	129.2	59.3	55.4	39.6	23.8
100°	141.3	63.8	60.2	45.9	31.6
102.5°	146.8	68.3	64.9	51.6	38.2
105°	151.0	74.9	72.0	60.7	49.4
107.5°	151.7	84.6	81.9	71.4	60.9
110°	150.6	90.1	87.7	78.2	68.6



TEST NUMBER: P933911

CATALOG NUMBER: SQ4-FA-025U-075D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	150.6	96.7	94.4	85.4	76.3
115°	152.0	106.6	104.5	96.2	87.8
117.5°	154.8	116.2	114.2	106.7	99.1
120°	157.2	121.8	120.0	112.9	105.7
122.5°	160.4	128.4	126.6	119.4	112.1
125°	164.9	136.9	135.3	128.7	122.1
127.5°	169.3	145.0	143.4	136.7	130.1
130°	172.6	150.5	148.7	141.6	134.4
132.5°	175.2	155.0	153.2	146.1	138.9
135°	178.1	160.1	158.5	152.0	145.5
137.5°	182.4	166.7	165.1	158.7	152.3
140°	185.1	171.2	169.7	163.8	157.8
142.5°	187.2	174.5	173.1	167.6	162.1
145°	190.1	179.5	178.3	173.5	168.7
147.5°	194.4	185.8	184.7	180.0	175.3
150°	196.6	189.2	188.1	183.8	179.6
152.5°	198.0	191.3	190.5	187.3	184.1
155°	201.1	196.1	195.5	193.1	190.7
157.5°	204.3	200.8	200.2	197.9	195.6
160°	205.7	203.0	202.5	200.8	198.9
162.5°	207.3	205.3	204.9	203.5	202.2
165°	209.5	208.5	208.2	207.0	205.8
167.5°	211.2	210.4	210.2	209.7	209.1
170°	212.6	212.5	212.4	211.8	211.3
172.5°	212.7	212.7	212.7	212.5	212.4
175°	213.6	214.0	214.0	214.0	214.0
177.5°	213.7	214.0	214.0	214.0	214.0
180°	214.0	214.0	214.0	214.0	214.0



TEST NUMBER: P933911  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.54	15.67	15.27	16.41	17.30	17.37	18.50	18.09	19.24	20.12
	3H	15.04	16.05	15.78	16.80	17.72	18.73	19.74	19.47	20.50	21.41
	4H	15.24	16.20	16.00	16.96	17.89	19.19	20.14	19.94	20.90	21.83
	6H	15.38	16.26	16.14	17.03	17.97	19.48	20.37	20.25	21.14	22.08
	8H	15.39	16.23	16.16	17.01	17.96	19.57	20.40	20.34	21.19	22.14
	12H	15.37	16.17	16.15	16.95	17.92	19.61	20.41	20.39	21.20	22.17
4H	2H	15.61	16.56	16.36	17.32	18.25	17.81	18.76	18.57	19.53	20.45
	3H	16.66	17.45	17.43	18.25	19.19	19.34	20.13	20.11	20.93	21.87
	4H	16.95	17.67	17.73	18.47	19.44	19.88	20.60	20.66	21.40	22.37
	6H	17.09	17.71	17.89	18.53	19.51	20.26	20.88	21.06	21.70	22.68
	8H	17.10	17.68	17.90	18.50	19.49	20.37	20.95	21.17	21.77	22.76
	12H	17.08	17.60	17.90	18.44	19.44	20.44	20.96	21.26	21.80	22.80
8H	4H	17.42	18.00	18.23	18.82	19.81	20.02	20.61	20.83	21.42	22.42
	6H	17.69	18.18	18.53	19.04	20.03	20.47	20.95	21.30	21.81	22.80
	8H	17.74	18.17	18.58	19.02	20.03	20.62	21.05	21.47	21.91	22.92
	12H	17.73	18.11	18.58	18.96	20.03	20.73	21.11	21.58	21.96	23.02
12H	4H	17.44	17.96	18.26	18.80	19.80	20.00	20.53	20.83	21.36	22.36
	6H	17.75	18.19	18.60	19.04	20.05	20.47	20.90	21.31	21.75	22.76
	8H	17.83	18.21	18.68	19.06	20.13	20.64	21.02	21.49	21.87	22.93