

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: P933952

Luminaire Tested: SQ4-FA-025U-075D-930-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

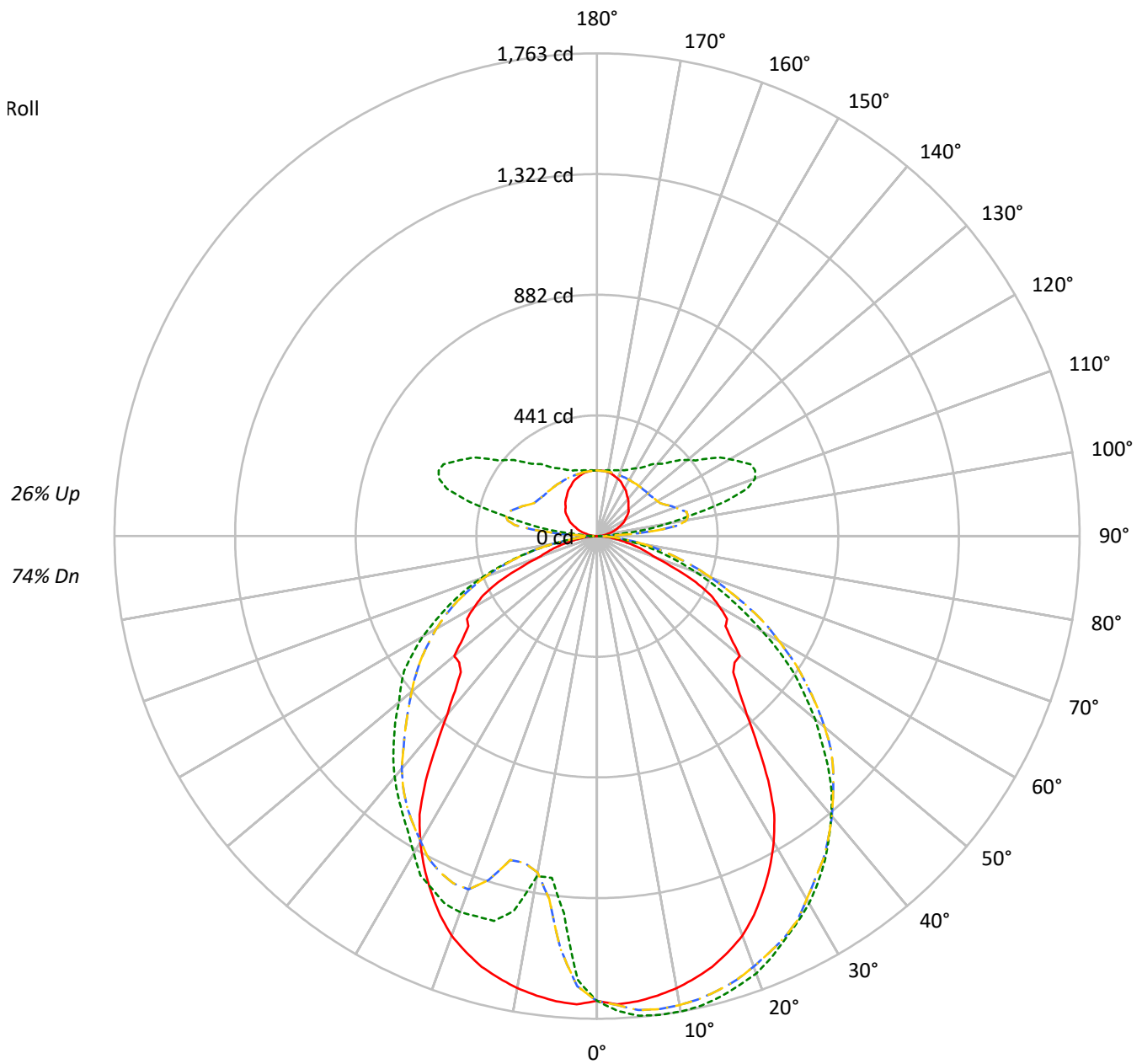
Test Method: LM-79-2019  
Report Number: P933952  
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5955.9 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 60  
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				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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

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

	0°	90°	180°	270°
0°	7876	7876	7876	7876
5°	7934	7950	7934	6251
10°	7881	7831	7881	5599
15°	7796	7661	7796	6398
20°	7633	7461	7633	6411
25°	7299	7167	7299	6275
30°	6867	6924	6867	5977
35°	6122	6616	6122	5649
40°	5102	6254	5102	5401
45°	4558	5829	4558	5116
50°	4843	5323	4843	4831
55°	4556	4779	4556	4665
60°	4697	4058	4697	4273
65°	4258	3355	4258	3750
70°	2948	2673	2948	3144
75°	2586	1976	2586	2366
80°	2083	1306	2083	1423
85°	1197	692	1197	588

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 6986 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.2	2.6
10°-20°	435.0	7.3
20°-30°	672.5	11.3
30°-40°	802.8	13.5
40°-50°	807.5	13.6
50°-60°	702.7	11.8
60°-70°	498.2	8.4
70°-80°	263.6	4.4
80°-90°	66.6	1.1
90°-100°	116.8	2.0
100°-110°	307.2	5.2
110°-120°	318.5	5.3
120°-130°	255.5	4.3
130°-140°	200.4	3.4
140°-150°	153.9	2.6
150°-160°	110.8	1.9
160°-170°	67.8	1.1
170°-180°	22.9	0.4
0°-30°	1260.8	21.2
0°-40°	2063.6	34.6
0°-60°	3573.8	60.0
0°-90°	4402.2	73.9
90°-120°	742.5	12.5
90°-150°	1352.2	22.7
90°-180°	1554.0	26.1
0°-180°	5955.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1698	1698	1698	1698	1698	
5°	1706	1758	1706	1383	1706	162
15°	1628	1742	1628	1455	1628	458
25°	1434	1625	1434	1423	1434	658
35°	1090	1450	1090	1238	1090	675
45°	703	1195	703	1049	703	563
55°	573	882	573	861	573	527
65°	398	532	398	594	398	381
75°	151	252	151	302	151	159
85°	26	64	26	55	26	35
90°	2	6	2	6	2	2
95°	15	71	15	71	15	17
105°	55	481	55	481	55	59
115°	98	619	98	619	98	97
125°	137	493	137	493	137	121
135°	163	383	163	383	163	126
145°	189	310	189	310	189	118
155°	214	267	214	267	214	98
165°	230	249	230	249	230	65
175°	240	241	240	241	240	23
180°	240	240	240	240	240	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1711.9	1711.9	1721.6	1724.8	1724.8	1719.9	1715.1	1719.9	1734.4	1739.2	1737.6
5°	1705.5	1718.3	1736.0	1739.2	1742.4	1740.8	1737.6	1740.8	1756.9	1760.1	1761.7
7.5°	1692.6	1716.7	1739.2	1744.0	1748.9	1744.0	1742.4	1745.6	1761.7	1764.9	1764.9
10°	1676.6	1710.3	1736.0	1739.2	1744.0	1739.2	1739.2	1745.6	1761.7	1764.9	1766.5
12.5°	1654.1	1700.7	1724.8	1728.0	1734.4	1732.8	1731.2	1737.6	1753.7	1756.9	1756.9
15°	1628.4	1683.0	1705.5	1708.7	1719.9	1716.7	1716.7	1723.2	1740.8	1745.6	1744.0
17.5°	1593.1	1660.5	1686.2	1691.0	1699.1	1697.5	1699.1	1705.5	1721.6	1724.8	1726.4
20°	1552.9	1630.0	1660.5	1665.3	1673.4	1673.4	1673.4	1681.4	1697.5	1703.9	1703.9
22.5°	1498.3	1597.9	1630.0	1633.2	1642.9	1642.9	1646.1	1657.3	1671.8	1673.4	1673.4
25°	1434.1	1562.6	1589.9	1599.5	1609.1	1613.9	1618.8	1625.2	1630.0	1628.4	1630.0
27.5°	1366.6	1517.6	1552.9	1559.3	1572.2	1577.0	1583.4	1585.0	1586.6	1591.5	1588.3
30°	1291.1	1455.0	1508.0	1514.4	1535.3	1538.5	1532.0	1535.3	1543.3	1546.5	1549.7
32.5°	1206.0	1361.8	1461.4	1475.8	1495.1	1485.5	1483.9	1488.7	1501.5	1501.5	1504.7
35°	1090.4	1289.5	1418.0	1430.9	1445.3	1434.1	1440.5	1442.1	1450.1	1455.0	1453.3
37.5°	963.5	1226.9	1373.0	1382.7	1393.9	1379.5	1389.1	1393.9	1400.4	1397.1	1397.1
40°	851.2	1128.9	1320.1	1326.5	1336.1	1324.9	1334.5	1337.7	1340.9	1337.7	1336.1
42.5°	767.7	1021.3	1263.8	1271.9	1265.4	1273.5	1276.7	1283.1	1278.3	1271.9	1271.9
45°	703.4	992.4	1202.8	1212.4	1202.8	1215.7	1220.5	1220.5	1206.0	1202.8	1201.2
47.5°	682.6	934.7	1141.8	1141.8	1137.0	1153.0	1161.1	1149.8	1135.4	1130.5	1130.5
50°	680.9	870.5	1058.3	1051.8	1074.3	1093.6	1085.6	1074.3	1063.1	1045.4	1045.4
52.5°	618.3	791.8	950.8	974.8	1010.1	1021.3	1008.5	997.2	978.0	969.9	963.5
55°	573.3	709.9	852.8	901.0	937.9	952.4	928.3	917.0	888.1	883.3	880.1
57.5°	563.7	591.0	762.8	823.9	868.8	867.2	852.8	831.9	807.8	803.0	801.4
60°	517.1	427.2	666.5	738.8	785.3	780.5	767.7	748.4	725.9	722.7	719.5
62.5°	469.0	310.0	557.3	639.2	705.0	703.4	692.2	663.3	647.2	639.2	632.8
65°	398.3	260.2	396.7	531.6	626.3	629.6	605.5	584.6	566.9	557.3	555.7
67.5°	303.5	212.0	268.2	443.3	550.9	547.6	517.1	507.5	485.0	480.2	470.6
70°	224.8	141.3	186.3	359.7	477.0	469.0	444.9	433.6	412.7	401.5	395.1
72.5°	186.3	114.0	136.5	279.4	401.5	391.9	371.0	358.1	340.5	330.8	324.4
75°	151.0	120.4	104.4	207.2	326.0	319.6	300.3	287.5	273.0	260.2	261.8
77.5°	110.8	112.4	83.5	152.6	258.6	248.9	237.7	221.6	215.2	202.4	202.4
80°	83.5	88.3	62.6	104.4	186.3	186.3	176.7	165.4	154.2	147.8	147.8
82.5°	56.2	56.2	46.6	65.8	126.9	122.1	115.6	112.4	106.0	102.8	102.8
85°	25.7	32.1	28.9	40.2	69.1	72.3	72.3	69.1	67.5	64.2	65.8
87.5°	8.0	14.5	17.7	22.5	35.3	36.9	38.5	38.5	38.5	40.2	40.2
90°	1.6	2.9	4.2	4.5	7.1	10.5	12.2	10.8	8.1	6.1	6.1
92.5°	6.4	17.3	28.3	31.1	43.7	60.5	68.8	60.3	43.4	30.6	29.4
95°	15.4	35.4	55.5	60.5	107.4	169.9	201.2	179.6	136.3	103.7	100.1
97.5°	26.7	44.4	62.0	66.4	144.6	248.9	301.1	287.5	260.1	239.5	232.5
100°	35.4	51.4	67.4	71.4	158.2	273.9	331.8	332.8	334.9	336.4	328.0
102.5°	42.8	57.7	72.7	76.4	164.5	281.9	340.6	358.0	392.8	419.0	411.9
105°	55.3	68.0	80.7	83.8	169.1	282.7	339.6	378.7	456.9	515.5	511.7
107.5°	68.2	80.0	91.8	94.8	169.9	270.1	320.2	374.8	483.9	565.7	566.7
110°	76.9	87.5	98.2	100.9	168.6	259.0	304.2	365.1	487.1	578.6	582.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	85.4	95.6	105.7	108.2	168.7	249.3	289.6	352.0	476.7	570.4	576.6
115°	98.3	107.6	117.0	119.3	170.2	238.1	272.0	332.1	452.4	542.6	551.1
117.5°	111.0	119.5	128.0	130.2	173.4	231.1	259.9	314.2	422.7	504.1	513.6
120°	118.4	126.4	134.4	136.4	176.0	228.8	255.1	304.7	403.8	478.2	487.3
122.5°	125.6	133.7	141.8	143.8	179.7	227.5	251.4	296.1	385.4	452.3	461.4
125°	136.8	144.1	151.4	153.3	184.7	226.5	247.4	285.3	361.2	418.0	426.4
127.5°	145.7	153.1	160.6	162.4	189.7	225.9	244.0	276.6	341.8	390.6	397.6
130°	150.6	158.6	166.5	168.5	193.3	226.3	242.7	271.7	329.7	373.2	379.7
132.5°	155.5	163.6	171.5	173.5	196.3	226.5	241.6	267.6	319.4	358.4	364.2
135°	162.9	170.2	177.5	179.4	199.5	226.3	239.7	261.5	304.9	337.5	342.5
137.5°	170.5	177.7	184.9	186.8	204.3	227.7	239.4	257.8	294.5	322.0	326.1
140°	176.7	183.4	190.1	191.8	207.3	227.9	238.3	254.1	285.9	309.6	313.5
142.5°	181.6	187.7	193.9	195.5	209.7	228.8	238.3	252.2	280.1	301.0	304.3
145°	189.0	194.4	199.7	201.1	213.0	228.8	236.6	248.0	270.9	288.0	290.4
147.5°	196.4	201.6	206.9	208.1	217.6	230.3	236.6	245.6	263.5	277.0	279.0
150°	201.2	206.0	210.6	211.8	220.1	231.1	236.6	244.2	259.4	270.7	272.4
152.5°	206.2	209.7	213.4	214.2	221.7	231.7	236.6	243.1	256.0	265.7	267.0
155°	213.6	216.2	218.9	219.5	225.2	232.9	236.6	241.8	252.1	259.8	260.6
157.5°	219.1	221.6	224.2	224.8	228.8	234.0	236.6	240.7	248.6	254.6	255.2
160°	222.8	224.8	226.8	227.2	230.4	234.6	236.6	240.1	246.9	252.1	252.4
162.5°	226.4	228.0	229.4	229.8	232.1	235.1	236.6	239.5	245.3	249.7	250.0
165°	230.5	231.9	233.3	233.6	234.6	236.0	236.6	238.7	242.8	246.0	246.3
167.5°	234.2	234.9	235.5	235.7	236.6	237.7	238.3	239.6	242.3	244.4	244.5
170°	236.6	237.3	237.9	238.1	238.2	238.3	238.3	239.6	242.3	244.4	244.4
172.5°	237.9	238.1	238.3	238.3	238.3	238.3	238.3	239.3	241.5	243.1	242.9
175°	239.7	239.7	239.7	239.7	239.2	238.6	238.3	238.9	240.3	241.3	241.3
177.5°	239.7	239.7	239.7	239.7	239.3	238.8	238.6	239.1	240.2	241.0	240.8
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1740.8	1736.0	1740.8	1737.6	1739.2	1734.4	1719.9	1715.1	1719.9	1724.8	1724.8
5°	1761.7	1758.5	1761.7	1761.7	1760.1	1756.9	1740.8	1737.6	1740.8	1742.4	1739.2
7.5°	1768.1	1763.3	1768.1	1764.9	1764.9	1761.7	1745.6	1742.4	1744.0	1748.9	1744.0
10°	1768.1	1763.3	1768.1	1766.5	1764.9	1761.7	1745.6	1739.2	1739.2	1744.0	1739.2
12.5°	1760.1	1756.9	1760.1	1756.9	1756.9	1753.7	1737.6	1731.2	1732.8	1734.4	1728.0
15°	1747.2	1742.4	1747.2	1744.0	1745.6	1740.8	1723.2	1716.7	1716.7	1719.9	1708.7
17.5°	1728.0	1721.6	1728.0	1726.4	1724.8	1721.6	1705.5	1699.1	1697.5	1699.1	1691.0
20°	1705.5	1700.7	1705.5	1703.9	1703.9	1697.5	1681.4	1673.4	1673.4	1673.4	1665.3
22.5°	1670.2	1665.3	1670.2	1673.4	1673.4	1671.8	1657.3	1646.1	1642.9	1642.9	1633.2
25°	1630.0	1625.2	1630.0	1630.0	1628.4	1630.0	1625.2	1618.8	1613.9	1609.1	1599.5
27.5°	1591.5	1588.3	1591.5	1588.3	1591.5	1586.6	1585.0	1583.4	1577.0	1572.2	1559.3
30°	1552.9	1549.7	1552.9	1549.7	1546.5	1543.3	1535.3	1532.0	1538.5	1535.3	1514.4
32.5°	1504.7	1501.5	1504.7	1504.7	1501.5	1501.5	1488.7	1483.9	1485.5	1495.1	1475.8
35°	1455.0	1450.1	1455.0	1453.3	1455.0	1450.1	1442.1	1440.5	1434.1	1445.3	1430.9
37.5°	1397.1	1392.3	1397.1	1397.1	1397.1	1400.4	1393.9	1389.1	1379.5	1393.9	1382.7
40°	1337.7	1331.3	1337.7	1336.1	1337.7	1340.9	1337.7	1334.5	1324.9	1336.1	1326.5
42.5°	1270.3	1268.7	1270.3	1271.9	1271.9	1278.3	1283.1	1276.7	1273.5	1265.4	1271.9
45°	1198.0	1194.8	1198.0	1201.2	1202.8	1206.0	1220.5	1220.5	1215.7	1202.8	1212.4
47.5°	1120.9	1112.9	1120.9	1130.5	1130.5	1135.4	1149.8	1161.1	1153.0	1137.0	1141.8
50°	1039.0	1040.6	1039.0	1045.4	1045.4	1063.1	1074.3	1085.6	1093.6	1074.3	1051.8
52.5°	958.7	957.2	958.7	963.5	969.9	978.0	997.2	1008.5	1021.3	1010.1	974.8
55°	878.5	881.7	878.5	880.1	883.3	888.1	917.0	928.3	952.4	937.9	901.0
57.5°	798.2	793.4	798.2	801.4	803.0	807.8	831.9	852.8	867.2	868.8	823.9
60°	705.0	698.6	705.0	719.5	722.7	725.9	748.4	767.7	780.5	785.3	738.8
62.5°	623.1	611.9	623.1	632.8	639.2	647.2	663.3	692.2	703.4	705.0	639.2
65°	536.4	531.6	536.4	555.7	557.3	566.9	584.6	605.5	629.6	626.3	531.6
67.5°	457.7	457.7	457.7	470.6	480.2	485.0	507.5	517.1	547.6	550.9	443.3
70°	385.4	383.8	385.4	395.1	401.5	412.7	433.6	444.9	469.0	477.0	359.7
72.5°	316.4	314.8	316.4	324.4	330.8	340.5	358.1	371.0	391.9	401.5	279.4
75°	255.4	252.1	255.4	261.8	260.2	273.0	287.5	300.3	319.6	326.0	207.2
77.5°	195.9	195.9	195.9	202.4	202.4	215.2	221.6	237.7	248.9	258.6	152.6
80°	146.1	144.5	146.1	147.8	147.8	154.2	165.4	176.7	186.3	186.3	104.4
82.5°	102.8	99.6	102.8	102.8	102.8	106.0	112.4	115.6	122.1	126.9	65.8
85°	64.2	64.2	64.2	65.8	64.2	67.5	69.1	72.3	72.3	69.1	40.2
87.5°	41.8	40.2	41.8	40.2	40.2	38.5	38.5	38.5	36.9	35.3	22.5
90°	6.1	6.1	6.1	6.1	6.1	8.1	10.8	12.2	10.5	7.1	4.5
92.5°	24.5	19.6	24.5	29.4	30.6	43.4	60.3	68.8	60.5	43.7	31.1
95°	85.4	70.6	85.4	100.1	103.7	136.3	179.6	201.2	169.9	107.4	60.5
97.5°	204.4	176.4	204.4	232.5	239.5	260.1	287.5	301.1	248.9	144.6	66.4
100°	294.6	261.2	294.6	328.0	336.4	334.9	332.8	331.8	273.9	158.2	71.4
102.5°	383.3	354.7	383.3	411.9	419.0	392.8	358.0	340.6	281.9	164.5	76.4
105°	496.3	480.9	496.3	511.7	515.5	456.9	378.7	339.6	282.7	169.1	83.8
107.5°	570.4	574.1	570.4	566.7	565.7	483.9	374.8	320.2	270.1	169.9	94.8
110°	598.6	614.6	598.6	582.6	578.6	487.1	365.1	304.2	259.0	168.6	100.9





TEST NUMBER: P933952

CATALOG NUMBER: SQ4-FA-025U-075D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	601.1	625.7	601.1	576.6	570.4	476.7	352.0	289.6	249.3	168.7	108.2
115°	585.2	619.3	585.2	551.1	542.6	452.4	332.1	272.0	238.1	170.2	119.3
117.5°	551.4	589.2	551.4	513.6	504.1	422.7	314.2	259.9	231.1	173.4	130.2
120°	524.1	560.9	524.1	487.3	478.2	403.8	304.7	255.1	228.8	176.0	136.4
122.5°	497.6	533.8	497.6	461.4	452.3	385.4	296.1	251.4	227.5	179.7	143.8
125°	459.8	493.2	459.8	426.4	418.0	361.2	285.3	247.4	226.5	184.7	153.3
127.5°	425.8	453.9	425.8	397.6	390.6	341.8	276.6	244.0	225.9	189.7	162.4
130°	405.7	431.7	405.7	379.7	373.2	329.7	271.7	242.7	226.3	193.3	168.5
132.5°	387.5	410.8	387.5	364.2	358.4	319.4	267.6	241.6	226.5	196.3	173.5
135°	362.6	382.6	362.6	342.5	337.5	304.9	261.5	239.7	226.3	199.5	179.4
137.5°	342.6	359.0	342.6	326.1	322.0	294.5	257.8	239.4	227.7	204.3	186.8
140°	328.8	344.2	328.8	313.5	309.6	285.9	254.1	238.3	227.9	207.3	191.8
142.5°	317.5	330.7	317.5	304.3	301.0	280.1	252.2	238.3	228.8	209.7	195.5
145°	300.5	310.4	300.5	290.4	288.0	270.9	248.0	236.6	228.8	213.0	201.1
147.5°	287.3	295.7	287.3	279.0	277.0	263.5	245.6	236.6	230.3	217.6	208.1
150°	279.1	285.9	279.1	272.4	270.7	259.4	244.2	236.6	231.1	220.1	211.8
152.5°	272.1	277.1	272.1	267.0	265.7	256.0	243.1	236.6	231.7	221.7	214.2
155°	263.9	267.3	263.9	260.6	259.8	252.1	241.8	236.6	232.9	225.2	219.5
157.5°	257.6	259.9	257.6	255.2	254.6	248.6	240.7	236.6	234.0	228.8	224.8
160°	253.7	255.1	253.7	252.4	252.1	246.9	240.1	236.6	234.6	230.4	227.2
162.5°	251.3	252.5	251.3	250.0	249.7	245.3	239.5	236.6	235.1	232.1	229.8
165°	247.6	249.0	247.6	246.3	246.0	242.8	238.7	236.6	236.0	234.6	233.6
167.5°	245.1	245.6	245.1	244.5	244.4	242.3	239.6	238.3	237.7	236.6	235.7
170°	244.4	244.4	244.4	244.4	244.4	242.3	239.6	238.3	238.3	238.2	238.1
172.5°	242.4	241.9	242.4	242.9	243.1	241.5	239.3	238.3	238.3	238.3	238.3
175°	241.3	241.3	241.3	241.3	241.3	240.3	238.9	238.3	238.6	239.2	239.7
177.5°	240.3	239.7	240.3	240.8	241.0	240.2	239.1	238.6	238.8	239.3	239.7
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



TEST NUMBER: P933952

CATALOG NUMBER: SQ4-FA-025U-075D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1721.6	1711.9	1711.9	1695.9	1689.4	1684.6	1676.6	1652.5	1646.1	1639.6	1649.3
5°	1736.0	1718.3	1705.5	1676.6	1652.5	1642.9	1612.3	1554.5	1516.0	1487.1	1471.0
7.5°	1739.2	1716.7	1692.6	1647.7	1589.9	1564.2	1471.0	1365.0	1336.1	1310.4	1294.4
10°	1736.0	1710.3	1676.6	1609.1	1472.6	1427.7	1334.5	1265.4	1247.8	1243.0	1247.8
12.5°	1724.8	1700.7	1654.1	1541.7	1350.6	1320.1	1265.4	1225.3	1222.1	1230.1	1273.5
15°	1705.5	1683.0	1628.4	1451.7	1283.1	1260.6	1222.1	1207.6	1225.3	1281.5	1411.6
17.5°	1686.2	1660.5	1593.1	1363.4	1231.7	1215.7	1188.4	1217.3	1316.8	1392.3	1435.7
20°	1660.5	1630.0	1552.9	1299.2	1194.8	1180.3	1167.5	1297.6	1373.0	1400.4	1424.4
22.5°	1630.0	1597.9	1498.3	1254.2	1156.2	1145.0	1153.0	1342.5	1373.0	1392.3	1413.2
25°	1589.9	1562.6	1434.1	1218.9	1125.7	1112.9	1143.4	1337.7	1355.4	1360.2	1402.0
27.5°	1552.9	1517.6	1366.6	1186.8	1088.8	1084.0	1151.4	1316.8	1329.7	1334.5	1379.5
30°	1508.0	1455.0	1291.1	1153.0	1050.2	1048.6	1153.0	1291.1	1287.9	1300.8	1345.7
32.5°	1461.4	1361.8	1206.0	1111.3	1013.3	1011.7	1141.8	1252.6	1249.4	1267.1	1300.8
35°	1418.0	1289.5	1090.4	1063.1	966.7	968.3	1114.5	1207.6	1209.2	1225.3	1246.2
37.5°	1373.0	1226.9	963.5	1010.1	921.8	921.8	1077.5	1165.9	1162.7	1167.5	1196.4
40°	1320.1	1128.9	851.2	941.1	880.1	875.3	1032.6	1120.9	1109.7	1108.1	1148.2
42.5°	1263.8	1021.3	767.7	849.6	831.9	825.5	978.0	1066.3	1045.4	1050.2	1101.6
45°	1202.8	992.4	703.4	717.9	782.1	777.3	918.6	1003.7	989.2	1002.1	1055.1
47.5°	1141.8	934.7	682.6	595.8	729.1	727.5	852.8	942.7	934.7	947.5	1003.7
50°	1058.3	870.5	680.9	510.7	669.7	676.1	774.1	883.3	883.3	894.5	954.0
52.5°	950.8	791.8	618.3	462.5	600.6	619.9	705.0	831.9	835.1	846.4	899.4
55°	852.8	709.9	573.3	425.6	518.7	560.5	637.6	778.9	785.3	796.6	844.8
57.5°	762.8	591.0	563.7	382.2	443.3	483.4	578.2	727.5	730.7	740.4	786.9
60°	666.5	427.2	517.1	335.7	377.4	407.9	523.6	666.5	677.7	684.2	724.3
62.5°	557.3	310.0	469.0	303.5	345.3	351.7	478.6	608.7	623.1	627.9	652.0
65°	396.7	260.2	398.3	276.2	311.6	313.2	430.4	549.3	562.1	570.1	587.8
67.5°	268.2	212.0	303.5	250.5	285.9	287.5	383.8	480.2	497.9	504.3	515.5
70°	186.3	141.3	224.8	223.2	257.0	260.2	334.0	417.6	433.6	438.4	444.9
72.5°	136.5	114.0	186.3	200.8	226.4	229.7	282.7	346.9	363.0	367.8	371.0
75°	104.4	120.4	151.0	175.1	192.7	194.3	231.3	282.7	293.9	297.1	298.7
77.5°	83.5	112.4	110.8	141.3	157.4	154.2	181.5	218.4	228.1	228.1	228.1
80°	62.6	88.3	83.5	101.2	115.6	112.4	130.1	155.8	159.0	162.2	160.6
82.5°	46.6	56.2	56.2	64.2	77.1	73.9	86.7	101.2	101.2	101.2	104.4
85°	28.9	32.1	25.7	33.7	43.4	41.8	48.2	54.6	56.2	56.2	53.0
87.5°	17.7	14.5	8.0	12.8	19.3	19.3	22.5	24.1	22.5	22.5	22.5
90°	4.2	2.9	1.6	2.9	4.2	4.5	7.1	10.5	12.2	10.8	8.1
92.5°	28.3	17.3	6.4	17.3	28.3	31.1	43.7	60.5	68.8	60.3	43.4
95°	55.5	35.4	15.4	35.4	55.5	60.5	107.4	169.9	201.2	179.6	136.3
97.5°	62.0	44.4	26.7	44.4	62.0	66.4	144.6	248.9	301.1	287.5	260.1
100°	67.4	51.4	35.4	51.4	67.4	71.4	158.2	273.9	331.8	332.8	334.9
102.5°	72.7	57.7	42.8	57.7	72.7	76.4	164.5	281.9	340.6	358.0	392.8
105°	80.7	68.0	55.3	68.0	80.7	83.8	169.1	282.7	339.6	378.7	456.9
107.5°	91.8	80.0	68.2	80.0	91.8	94.8	169.9	270.1	320.2	374.8	483.9
110°	98.2	87.5	76.9	87.5	98.2	100.9	168.6	259.0	304.2	365.1	487.1



TEST NUMBER: P933952

CATALOG NUMBER: SQ4-FA-025U-075D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	105.7	95.6	85.4	95.6	105.7	108.2	168.7	249.3	289.6	352.0	476.7
115°	117.0	107.6	98.3	107.6	117.0	119.3	170.2	238.1	272.0	332.1	452.4
117.5°	128.0	119.5	111.0	119.5	128.0	130.2	173.4	231.1	259.9	314.2	422.7
120°	134.4	126.4	118.4	126.4	134.4	136.4	176.0	228.8	255.1	304.7	403.8
122.5°	141.8	133.7	125.6	133.7	141.8	143.8	179.7	227.5	251.4	296.1	385.4
125°	151.4	144.1	136.8	144.1	151.4	153.3	184.7	226.5	247.4	285.3	361.2
127.5°	160.6	153.1	145.7	153.1	160.6	162.4	189.7	225.9	244.0	276.6	341.8
130°	166.5	158.6	150.6	158.6	166.5	168.5	193.3	226.3	242.7	271.7	329.7
132.5°	171.5	163.6	155.5	163.6	171.5	173.5	196.3	226.5	241.6	267.6	319.4
135°	177.5	170.2	162.9	170.2	177.5	179.4	199.5	226.3	239.7	261.5	304.9
137.5°	184.9	177.7	170.5	177.7	184.9	186.8	204.3	227.7	239.4	257.8	294.5
140°	190.1	183.4	176.7	183.4	190.1	191.8	207.3	227.9	238.3	254.1	285.9
142.5°	193.9	187.7	181.6	187.7	193.9	195.5	209.7	228.8	238.3	252.2	280.1
145°	199.7	194.4	189.0	194.4	199.7	201.1	213.0	228.8	236.6	248.0	270.9
147.5°	206.9	201.6	196.4	201.6	206.9	208.1	217.6	230.3	236.6	245.6	263.5
150°	210.6	206.0	201.2	206.0	210.6	211.8	220.1	231.1	236.6	244.2	259.4
152.5°	213.4	209.7	206.2	209.7	213.4	214.2	221.7	231.7	236.6	243.1	256.0
155°	218.9	216.2	213.6	216.2	218.9	219.5	225.2	232.9	236.6	241.8	252.1
157.5°	224.2	221.6	219.1	221.6	224.2	224.8	228.8	234.0	236.6	240.7	248.6
160°	226.8	224.8	222.8	224.8	226.8	227.2	230.4	234.6	236.6	240.1	246.9
162.5°	229.4	228.0	226.4	228.0	229.4	229.8	232.1	235.1	236.6	239.5	245.3
165°	233.3	231.9	230.5	231.9	233.3	233.6	234.6	236.0	236.6	238.7	242.8
167.5°	235.5	234.9	234.2	234.9	235.5	235.7	236.6	237.7	238.3	239.6	242.3
170°	237.9	237.3	236.6	237.3	237.9	238.1	238.2	238.3	238.3	239.6	242.3
172.5°	238.3	238.1	237.9	238.1	238.3	238.3	238.3	238.3	238.3	239.3	241.5
175°	239.7	239.7	239.7	239.7	239.7	239.7	239.2	238.6	238.3	238.9	240.3
177.5°	239.7	239.7	239.7	239.7	239.7	239.7	239.3	238.8	238.6	239.1	240.2
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



TEST NUMBER: P933952

CATALOG NUMBER: SQ4-FA-025U-075D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1638.0	1633.2	1639.6	1622.0	1639.6	1633.2	1638.0	1649.3	1639.6	1646.1	1652.5
5°	1437.3	1429.3	1403.6	1382.7	1403.6	1429.3	1437.3	1471.0	1487.1	1516.0	1554.5
7.5°	1284.7	1278.3	1271.9	1259.0	1271.9	1278.3	1284.7	1294.4	1310.4	1336.1	1365.0
10°	1251.0	1252.6	1262.2	1260.6	1262.2	1252.6	1251.0	1247.8	1243.0	1247.8	1265.4
12.5°	1337.7	1352.2	1405.2	1402.0	1405.2	1352.2	1337.7	1273.5	1230.1	1222.1	1225.3
15°	1437.3	1442.1	1453.3	1455.0	1453.3	1442.1	1437.3	1411.6	1281.5	1225.3	1207.6
17.5°	1446.9	1448.5	1456.6	1456.6	1456.6	1448.5	1446.9	1435.7	1392.3	1316.8	1217.3
20°	1438.9	1442.1	1458.2	1461.4	1458.2	1442.1	1438.9	1424.4	1400.4	1373.0	1297.6
22.5°	1435.7	1442.1	1455.0	1453.3	1455.0	1442.1	1435.7	1413.2	1392.3	1373.0	1342.5
25°	1419.6	1419.6	1421.2	1422.8	1421.2	1419.6	1419.6	1402.0	1360.2	1355.4	1337.7
27.5°	1385.9	1389.1	1398.7	1397.1	1398.7	1389.1	1385.9	1379.5	1334.5	1329.7	1316.8
30°	1355.4	1352.2	1344.1	1337.7	1344.1	1352.2	1355.4	1345.7	1300.8	1287.9	1291.1
32.5°	1304.0	1296.0	1287.9	1283.1	1287.9	1296.0	1304.0	1300.8	1267.1	1249.4	1252.6
35°	1243.0	1244.6	1243.0	1238.1	1243.0	1244.6	1243.0	1246.2	1225.3	1209.2	1207.6
37.5°	1199.6	1202.8	1201.2	1194.8	1201.2	1202.8	1199.6	1196.4	1167.5	1162.7	1165.9
40°	1154.6	1156.2	1154.6	1149.8	1154.6	1156.2	1154.6	1148.2	1108.1	1109.7	1120.9
42.5°	1111.3	1109.7	1104.8	1101.6	1104.8	1109.7	1111.3	1101.6	1050.2	1045.4	1066.3
45°	1061.5	1063.1	1053.5	1048.6	1053.5	1063.1	1061.5	1055.1	1002.1	989.2	1003.7
47.5°	1011.7	1011.7	1003.7	998.9	1003.7	1011.7	1011.7	1003.7	947.5	934.7	942.7
50°	958.7	957.2	945.9	944.3	945.9	957.2	958.7	954.0	894.5	883.3	883.3
52.5°	897.8	897.8	899.4	902.6	899.4	897.8	897.8	899.4	846.4	835.1	831.9
55°	844.8	846.4	857.6	860.8	857.6	846.4	844.8	844.8	796.6	785.3	778.9
57.5°	790.2	790.2	798.2	798.2	798.2	790.2	790.2	786.9	740.4	730.7	727.5
60°	727.5	730.7	737.2	735.5	737.2	730.7	727.5	724.3	684.2	677.7	666.5
62.5°	661.7	664.9	666.5	663.3	666.5	664.9	661.7	652.0	627.9	623.1	608.7
65°	592.6	595.8	597.4	594.2	597.4	595.8	592.6	587.8	570.1	562.1	549.3
67.5°	522.0	520.3	518.7	525.2	518.7	520.3	522.0	515.5	504.3	497.9	480.2
70°	449.7	449.7	448.1	451.3	448.1	449.7	449.7	444.9	438.4	433.6	417.6
72.5°	372.6	371.0	377.4	372.6	377.4	371.0	372.6	371.0	367.8	363.0	346.9
75°	297.1	300.3	297.1	301.9	297.1	300.3	297.1	298.7	297.1	293.9	282.7
77.5°	226.4	229.7	226.4	226.4	226.4	229.7	226.4	228.1	228.1	228.1	218.4
80°	160.6	159.0	159.0	157.4	159.0	159.0	160.6	160.6	162.2	159.0	155.8
82.5°	102.8	101.2	101.2	104.4	101.2	101.2	102.8	104.4	101.2	101.2	101.2
85°	56.2	57.8	54.6	54.6	54.6	57.8	56.2	53.0	56.2	56.2	54.6
87.5°	20.9	19.3	19.3	19.3	19.3	19.3	20.9	22.5	22.5	22.5	24.1
90°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	8.1	10.8	12.2	10.5
92.5°	30.6	29.4	24.5	19.6	24.5	29.4	30.6	43.4	60.3	68.8	60.5
95°	103.7	100.1	85.4	70.6	85.4	100.1	103.7	136.3	179.6	201.2	169.9
97.5°	239.5	232.5	204.4	176.4	204.4	232.5	239.5	260.1	287.5	301.1	248.9
100°	336.4	328.0	294.6	261.2	294.6	328.0	336.4	334.9	332.8	331.8	273.9
102.5°	419.0	411.9	383.3	354.7	383.3	411.9	419.0	392.8	358.0	340.6	281.9
105°	515.5	511.7	496.3	480.9	496.3	511.7	515.5	456.9	378.7	339.6	282.7
107.5°	565.7	566.7	570.4	574.1	570.4	566.7	565.7	483.9	374.8	320.2	270.1
110°	578.6	582.6	598.6	614.6	598.6	582.6	578.6	487.1	365.1	304.2	259.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	570.4	576.6	601.1	625.7	601.1	576.6	570.4	476.7	352.0	289.6	249.3
115°	542.6	551.1	585.2	619.3	585.2	551.1	542.6	452.4	332.1	272.0	238.1
117.5°	504.1	513.6	551.4	589.2	551.4	513.6	504.1	422.7	314.2	259.9	231.1
120°	478.2	487.3	524.1	560.9	524.1	487.3	478.2	403.8	304.7	255.1	228.8
122.5°	452.3	461.4	497.6	533.8	497.6	461.4	452.3	385.4	296.1	251.4	227.5
125°	418.0	426.4	459.8	493.2	459.8	426.4	418.0	361.2	285.3	247.4	226.5
127.5°	390.6	397.6	425.8	453.9	425.8	397.6	390.6	341.8	276.6	244.0	225.9
130°	373.2	379.7	405.7	431.7	405.7	379.7	373.2	329.7	271.7	242.7	226.3
132.5°	358.4	364.2	387.5	410.8	387.5	364.2	358.4	319.4	267.6	241.6	226.5
135°	337.5	342.5	362.6	382.6	362.6	342.5	337.5	304.9	261.5	239.7	226.3
137.5°	322.0	326.1	342.6	359.0	342.6	326.1	322.0	294.5	257.8	239.4	227.7
140°	309.6	313.5	328.8	344.2	328.8	313.5	309.6	285.9	254.1	238.3	227.9
142.5°	301.0	304.3	317.5	330.7	317.5	304.3	301.0	280.1	252.2	238.3	228.8
145°	288.0	290.4	300.5	310.4	300.5	290.4	288.0	270.9	248.0	236.6	228.8
147.5°	277.0	279.0	287.3	295.7	287.3	279.0	277.0	263.5	245.6	236.6	230.3
150°	270.7	272.4	279.1	285.9	279.1	272.4	270.7	259.4	244.2	236.6	231.1
152.5°	265.7	267.0	272.1	277.1	272.1	267.0	265.7	256.0	243.1	236.6	231.7
155°	259.8	260.6	263.9	267.3	263.9	260.6	259.8	252.1	241.8	236.6	232.9
157.5°	254.6	255.2	257.6	259.9	257.6	255.2	254.6	248.6	240.7	236.6	234.0
160°	252.1	252.4	253.7	255.1	253.7	252.4	252.1	246.9	240.1	236.6	234.6
162.5°	249.7	250.0	251.3	252.5	251.3	250.0	249.7	245.3	239.5	236.6	235.1
165°	246.0	246.3	247.6	249.0	247.6	246.3	246.0	242.8	238.7	236.6	236.0
167.5°	244.4	244.5	245.1	245.6	245.1	244.5	244.4	242.3	239.6	238.3	237.7
170°	244.4	244.4	244.4	244.4	244.4	244.4	244.4	242.3	239.6	238.3	238.3
172.5°	243.1	242.9	242.4	241.9	242.4	242.9	243.1	241.5	239.3	238.3	238.3
175°	241.3	241.3	241.3	241.3	241.3	241.3	241.3	240.3	238.9	238.3	238.6
177.5°	241.0	240.8	240.3	239.7	240.3	240.8	241.0	240.2	239.1	238.6	238.8
180°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1676.6	1684.6	1689.4	1695.9	1711.9
5°	1612.3	1642.9	1652.5	1676.6	1705.5
7.5°	1471.0	1564.2	1589.9	1647.7	1692.6
10°	1334.5	1427.7	1472.6	1609.1	1676.6
12.5°	1265.4	1320.1	1350.6	1541.7	1654.1
15°	1222.1	1260.6	1283.1	1451.7	1628.4
17.5°	1188.4	1215.7	1231.7	1363.4	1593.1
20°	1167.5	1180.3	1194.8	1299.2	1552.9
22.5°	1153.0	1145.0	1156.2	1254.2	1498.3
25°	1143.4	1112.9	1125.7	1218.9	1434.1
27.5°	1151.4	1084.0	1088.8	1186.8	1366.6
30°	1153.0	1048.6	1050.2	1153.0	1291.1
32.5°	1141.8	1011.7	1013.3	1111.3	1206.0
35°	1114.5	968.3	966.7	1063.1	1090.4
37.5°	1077.5	921.8	921.8	1010.1	963.5
40°	1032.6	875.3	880.1	941.1	851.2
42.5°	978.0	825.5	831.9	849.6	767.7
45°	918.6	777.3	782.1	717.9	703.4
47.5°	852.8	727.5	729.1	595.8	682.6
50°	774.1	676.1	669.7	510.7	680.9
52.5°	705.0	619.9	600.6	462.5	618.3
55°	637.6	560.5	518.7	425.6	573.3
57.5°	578.2	483.4	443.3	382.2	563.7
60°	523.6	407.9	377.4	335.7	517.1
62.5°	478.6	351.7	345.3	303.5	469.0
65°	430.4	313.2	311.6	276.2	398.3
67.5°	383.8	287.5	285.9	250.5	303.5
70°	334.0	260.2	257.0	223.2	224.8
72.5°	282.7	229.7	226.4	200.8	186.3
75°	231.3	194.3	192.7	175.1	151.0
77.5°	181.5	154.2	157.4	141.3	110.8
80°	130.1	112.4	115.6	101.2	83.5
82.5°	86.7	73.9	77.1	64.2	56.2
85°	48.2	41.8	43.4	33.7	25.7
87.5°	22.5	19.3	19.3	12.8	8.0
90°	7.1	4.5	4.2	2.9	1.6
92.5°	43.7	31.1	28.3	17.3	6.4
95°	107.4	60.5	55.5	35.4	15.4
97.5°	144.6	66.4	62.0	44.4	26.7
100°	158.2	71.4	67.4	51.4	35.4
102.5°	164.5	76.4	72.7	57.7	42.8
105°	169.1	83.8	80.7	68.0	55.3
107.5°	169.9	94.8	91.8	80.0	68.2
110°	168.6	100.9	98.2	87.5	76.9



TEST NUMBER: P933952

CATALOG NUMBER: SQ4-FA-025U-075D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	168.7	108.2	105.7	95.6	85.4
115°	170.2	119.3	117.0	107.6	98.3
117.5°	173.4	130.2	128.0	119.5	111.0
120°	176.0	136.4	134.4	126.4	118.4
122.5°	179.7	143.8	141.8	133.7	125.6
125°	184.7	153.3	151.4	144.1	136.8
127.5°	189.7	162.4	160.6	153.1	145.7
130°	193.3	168.5	166.5	158.6	150.6
132.5°	196.3	173.5	171.5	163.6	155.5
135°	199.5	179.4	177.5	170.2	162.9
137.5°	204.3	186.8	184.9	177.7	170.5
140°	207.3	191.8	190.1	183.4	176.7
142.5°	209.7	195.5	193.9	187.7	181.6
145°	213.0	201.1	199.7	194.4	189.0
147.5°	217.6	208.1	206.9	201.6	196.4
150°	220.1	211.8	210.6	206.0	201.2
152.5°	221.7	214.2	213.4	209.7	206.2
155°	225.2	219.5	218.9	216.2	213.6
157.5°	228.8	224.8	224.2	221.6	219.1
160°	230.4	227.2	226.8	224.8	222.8
162.5°	232.1	229.8	229.4	228.0	226.4
165°	234.6	233.6	233.3	231.9	230.5
167.5°	236.6	235.7	235.5	234.9	234.2
170°	238.2	238.1	237.9	237.3	236.6
172.5°	238.3	238.3	238.3	238.1	237.9
175°	239.2	239.7	239.7	239.7	239.7
177.5°	239.3	239.7	239.7	239.7	239.7
180°	239.7	239.7	239.7	239.7	239.7



TEST NUMBER: P933952  
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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	13.94	15.07	14.66	15.81	16.69	16.78	17.91	17.50	18.65	19.53
	3H	14.44	15.45	15.17	16.20	17.12	18.15	19.16	18.88	19.91	20.83
	4H	14.64	15.60	15.40	16.36	17.29	18.61	19.56	19.36	20.32	21.25
	6H	14.78	15.66	15.54	16.43	17.37	18.91	19.79	19.67	20.56	21.50
	8H	14.78	15.62	15.56	16.41	17.36	18.99	19.83	19.77	20.62	21.56
	12H	14.76	15.56	15.55	16.35	17.32	19.04	19.84	19.82	20.62	21.59
4H	2H	15.01	15.96	15.77	16.72	17.65	17.22	18.18	17.98	18.94	19.86
	3H	16.06	16.86	16.83	17.65	18.60	18.75	19.55	19.52	20.35	21.29
	4H	16.35	17.07	17.13	17.87	18.84	19.29	20.02	20.08	20.81	21.79
	6H	16.49	17.11	17.29	17.93	18.91	19.68	20.30	20.48	21.12	22.10
	8H	16.50	17.08	17.31	17.90	18.89	19.79	20.38	20.60	21.19	22.18
	12H	16.48	17.01	17.31	17.84	18.84	19.86	20.39	20.69	21.23	22.22
8H	4H	16.82	17.41	17.63	18.23	19.22	19.44	20.02	20.25	20.84	21.83
	6H	17.10	17.58	17.93	18.44	19.43	19.89	20.37	20.72	21.23	22.23
	8H	17.14	17.57	17.99	18.43	19.44	20.05	20.48	20.89	21.33	22.34
	12H	17.14	17.52	17.99	18.36	19.43	20.16	20.54	21.01	21.38	22.45
12H	4H	16.84	17.37	17.67	18.21	19.20	19.42	19.94	20.24	20.78	21.78
	6H	17.16	17.59	18.01	18.45	19.46	19.89	20.32	20.73	21.18	22.18
	8H	17.24	17.62	18.09	18.47	19.53	20.06	20.44	20.91	21.29	22.36