

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: P934011

Luminaire Tested: SQ4-FA-025U-100D-830-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

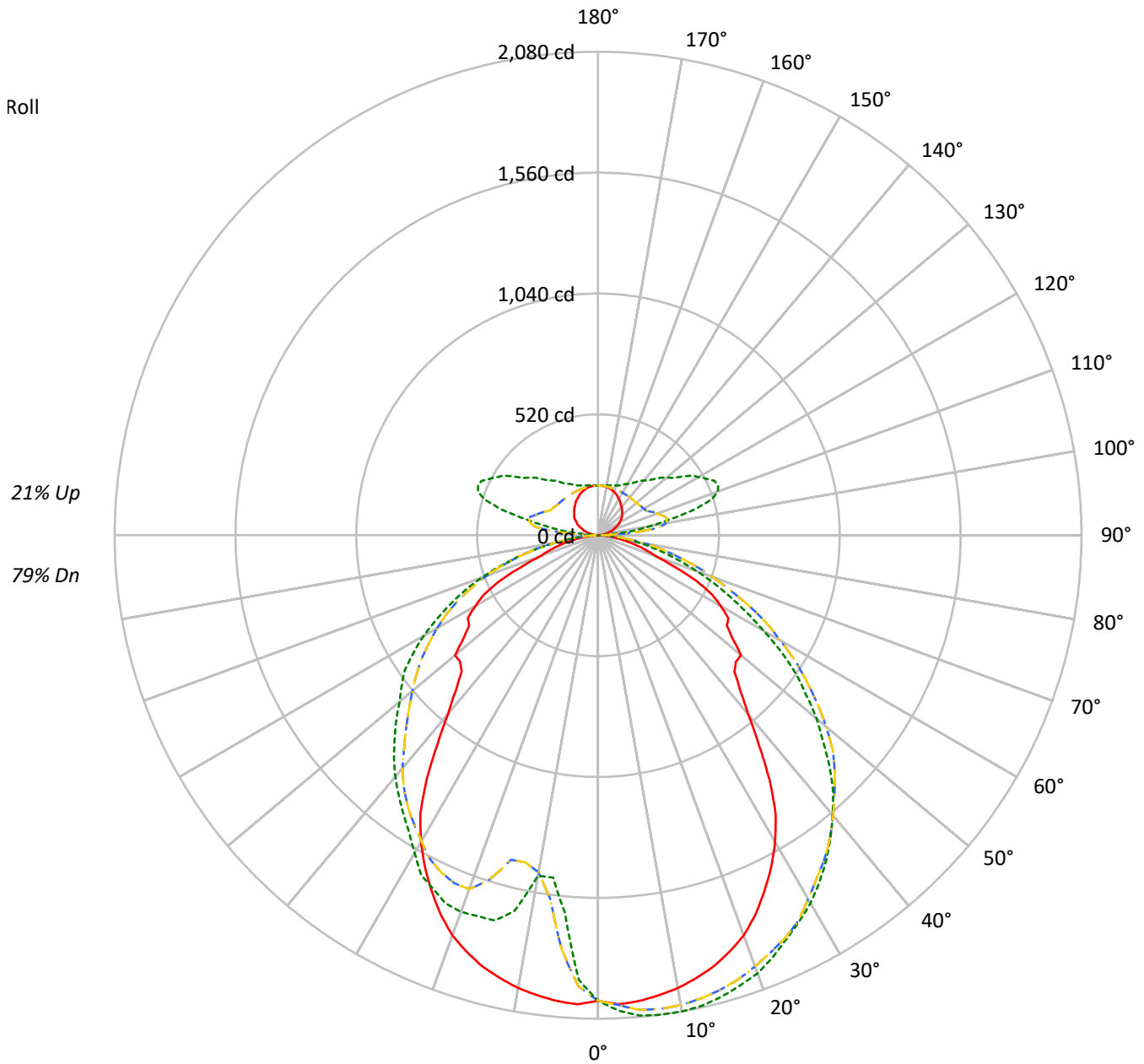
Test Method: LM-79-2019  
Report Number: P934011  
REPORT IS A COMBINATION OF REPORTS P933683 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6580.1 lumens  
Efficiency: N/A  
Efficacy: 113.1 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): 58.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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



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

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79				79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67				67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56				56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47				47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41				41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35				35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31				31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27				27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24				24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22				22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20				20

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

	0°	90°	180°	270°
0°	12387	12387	12387	12387
5°	12475	12504	12475	9832
10°	12388	12318	12388	8807
15°	12248	12051	12248	10063
20°	11988	11735	11988	10084
25°	11458	11274	11458	9870
30°	10777	10891	10777	9401
35°	9603	10406	9603	8886
40°	7997	9836	7997	8496
45°	7141	9169	7141	8048
50°	7579	8373	7579	7598
55°	7126	7516	7126	7338
60°	7335	6383	7335	6721
65°	6641	5276	6641	5898
70°	4587	4206	4587	4944
75°	4008	3108	4008	3723
80°	3206	2056	3206	2238
85°	1806	1089	1806	925

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10951 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.8	2.7
10°-20°	513.2	7.8
20°-30°	793.3	12.1
30°-40°	947.1	14.4
40°-50°	952.6	14.5
50°-60°	828.9	12.6
60°-70°	587.7	8.9
70°-80°	310.9	4.7
80°-90°	78.2	1.2
90°-100°	104.3	1.6
100°-110°	274.2	4.2
110°-120°	284.4	4.3
120°-130°	228.1	3.5
130°-140°	179.0	2.7
140°-150°	137.4	2.1
150°-160°	98.9	1.5
160°-170°	60.5	0.9
170°-180°	20.5	0.3
0°-30°	1487.3	22.6
0°-40°	2434.4	37.0
0°-60°	4216.0	64.1
0°-90°	5192.9	78.9
90°-120°	662.9	10.1
90°-150°	1207.4	18.3
90°-180°	1387.0	21.1
0°-180°	6580.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2002	2002	2002	2002	2002	
5°	2012	2074	2012	1631	2012	191
15°	1921	2056	1921	1716	1921	541
25°	1692	1917	1692	1678	1692	777
35°	1286	1711	1286	1461	1286	796
45°	830	1410	830	1237	830	665
55°	676	1040	676	1016	676	621
65°	470	627	470	701	470	449
75°	178	297	178	356	178	187
85°	30	76	30	64	30	41
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°	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	2019.6	2019.6	2030.9	2034.7	2034.7	2029.0	2023.3	2029.0	2046.0	2051.8	2049.9
5°	2011.9	2027.1	2047.9	2051.8	2055.5	2053.6	2049.9	2053.6	2072.5	2076.3	2078.2
7.5°	1996.8	2025.2	2051.8	2057.4	2063.0	2057.4	2055.5	2059.3	2078.2	2082.1	2082.1
10°	1977.9	2017.6	2047.9	2051.8	2057.4	2051.8	2051.8	2059.3	2078.2	2082.1	2083.9
12.5°	1951.3	2006.3	2034.7	2038.5	2046.0	2044.1	2042.2	2049.9	2068.8	2072.5	2072.5
15°	1921.0	1985.4	2011.9	2015.7	2029.0	2025.2	2025.2	2032.7	2053.6	2059.3	2057.4
17.5°	1879.3	1958.8	1989.2	1994.9	2004.3	2002.4	2004.3	2011.9	2030.9	2034.7	2036.6
20°	1832.0	1922.9	1958.8	1964.6	1974.0	1974.0	1974.0	1983.5	2002.4	2010.1	2010.1
22.5°	1767.5	1885.0	1922.9	1926.7	1938.1	1938.1	1941.8	1955.1	1972.1	1974.0	1974.0
25°	1691.7	1843.4	1875.6	1886.9	1898.2	1904.0	1909.6	1917.3	1922.9	1921.0	1922.9
27.5°	1612.2	1790.3	1832.0	1839.5	1854.7	1860.4	1867.9	1869.8	1871.8	1877.4	1873.7
30°	1523.2	1716.4	1778.9	1786.5	1811.1	1814.9	1807.3	1811.1	1820.6	1824.4	1828.2
32.5°	1422.7	1606.6	1724.0	1741.1	1763.7	1752.3	1750.5	1756.2	1771.4	1771.4	1775.1
35°	1286.4	1521.3	1672.8	1688.0	1705.0	1691.7	1699.4	1701.2	1710.7	1716.4	1714.5
37.5°	1136.7	1447.4	1619.8	1631.1	1644.4	1627.4	1638.7	1644.4	1652.0	1648.2	1648.2
40°	1004.1	1331.8	1557.2	1564.9	1576.3	1563.0	1574.3	1578.1	1581.9	1578.1	1576.3
42.5°	905.5	1204.8	1491.0	1500.4	1492.9	1502.4	1506.1	1513.7	1508.0	1500.4	1500.4
45°	829.8	1170.8	1419.0	1430.4	1419.0	1434.1	1439.8	1439.8	1422.7	1419.0	1417.1
47.5°	805.1	1102.6	1347.0	1347.0	1341.3	1360.2	1369.7	1356.5	1339.4	1333.7	1333.7
50°	803.2	1026.8	1248.4	1240.9	1267.4	1290.1	1280.7	1267.4	1254.2	1233.3	1233.3
52.5°	729.3	934.0	1121.5	1150.0	1191.7	1204.8	1189.7	1176.5	1153.7	1144.2	1136.7
55°	676.4	837.4	1006.0	1062.8	1106.4	1123.4	1095.0	1081.7	1047.7	1041.9	1038.2
57.5°	665.0	697.2	899.9	971.9	1024.9	1023.0	1006.0	981.3	952.9	947.2	945.4
60°	610.0	503.9	786.2	871.5	926.4	920.7	905.5	882.9	856.3	852.6	848.7
62.5°	553.1	365.7	657.3	754.0	831.7	829.8	816.5	782.4	763.5	754.0	746.4
65°	469.9	306.9	468.0	627.0	738.9	742.6	714.2	689.6	668.7	657.3	655.5
67.5°	358.0	250.1	316.3	522.8	649.8	646.1	610.0	598.6	572.2	566.4	555.1
70°	265.2	166.7	219.8	424.4	562.7	553.1	524.7	511.6	486.9	473.6	466.0
72.5°	219.8	134.5	161.0	329.6	473.6	462.2	437.7	422.5	401.6	390.2	382.7
75°	178.1	142.1	123.1	244.4	384.6	377.0	354.3	339.1	322.1	306.9	308.8
77.5°	130.7	132.6	98.5	180.0	305.0	293.7	280.4	261.5	253.8	238.7	238.7
80°	98.5	104.2	73.9	123.1	219.8	219.8	208.4	195.1	181.8	174.3	174.3
82.5°	66.3	66.3	55.0	77.6	149.7	144.0	136.4	132.6	125.0	121.2	121.2
85°	30.3	37.9	34.1	47.3	81.5	85.3	85.3	81.5	79.5	75.8	77.6
87.5°	9.5	17.0	20.8	26.5	41.7	43.6	45.5	45.5	45.5	47.3	47.3
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°	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	2053.6	2047.9	2053.6	2049.9	2051.8	2046.0	2029.0	2023.3	2029.0	2034.7	2034.7
5°	2078.2	2074.4	2078.2	2078.2	2076.3	2072.5	2053.6	2049.9	2053.6	2055.5	2051.8
7.5°	2085.8	2080.2	2085.8	2082.1	2082.1	2078.2	2059.3	2055.5	2057.4	2063.0	2057.4
10°	2085.8	2080.2	2085.8	2083.9	2082.1	2078.2	2059.3	2051.8	2051.8	2057.4	2051.8
12.5°	2076.3	2072.5	2076.3	2072.5	2072.5	2068.8	2049.9	2042.2	2044.1	2046.0	2038.5
15°	2061.2	2055.5	2061.2	2057.4	2059.3	2053.6	2032.7	2025.2	2025.2	2029.0	2015.7
17.5°	2038.5	2030.9	2038.5	2036.6	2034.7	2030.9	2011.9	2004.3	2002.4	2004.3	1994.9
20°	2011.9	2006.3	2011.9	2010.1	2010.1	2002.4	1983.5	1974.0	1974.0	1974.0	1964.6
22.5°	1970.2	1964.6	1970.2	1974.0	1974.0	1972.1	1955.1	1941.8	1938.1	1938.1	1926.7
25°	1922.9	1917.3	1922.9	1922.9	1921.0	1922.9	1917.3	1909.6	1904.0	1898.2	1886.9
27.5°	1877.4	1873.7	1877.4	1873.7	1877.4	1871.8	1869.8	1867.9	1860.4	1854.7	1839.5
30°	1832.0	1828.2	1832.0	1828.2	1824.4	1820.6	1811.1	1807.3	1814.9	1811.1	1786.5
32.5°	1775.1	1771.4	1775.1	1775.1	1771.4	1771.4	1756.2	1750.5	1752.3	1763.7	1741.1
35°	1716.4	1710.7	1716.4	1714.5	1716.4	1710.7	1701.2	1699.4	1691.7	1705.0	1688.0
37.5°	1648.2	1642.5	1648.2	1648.2	1648.2	1652.0	1644.4	1638.7	1627.4	1644.4	1631.1
40°	1578.1	1570.5	1578.1	1576.3	1578.1	1581.9	1578.1	1574.3	1563.0	1576.3	1564.9
42.5°	1498.5	1496.6	1498.5	1500.4	1500.4	1508.0	1513.7	1506.1	1502.4	1492.9	1500.4
45°	1413.3	1409.5	1413.3	1417.1	1419.0	1422.7	1439.8	1439.8	1434.1	1419.0	1430.4
47.5°	1322.3	1312.9	1322.3	1333.7	1333.7	1339.4	1356.5	1369.7	1360.2	1341.3	1347.0
50°	1225.7	1227.6	1225.7	1233.3	1233.3	1254.2	1267.4	1280.7	1290.1	1267.4	1240.9
52.5°	1131.0	1129.1	1131.0	1136.7	1144.2	1153.7	1176.5	1189.7	1204.8	1191.7	1150.0
55°	1036.3	1040.0	1036.3	1038.2	1041.9	1047.7	1081.7	1095.0	1123.4	1106.4	1062.8
57.5°	941.6	935.8	941.6	945.4	947.2	952.9	981.3	1006.0	1023.0	1024.9	971.9
60°	831.7	824.1	831.7	848.7	852.6	856.3	882.9	905.5	920.7	926.4	871.5
62.5°	735.1	721.8	735.1	746.4	754.0	763.5	782.4	816.5	829.8	831.7	754.0
65°	632.8	627.0	632.8	655.5	657.3	668.7	689.6	714.2	742.6	738.9	627.0
67.5°	539.9	539.9	539.9	555.1	566.4	572.2	598.6	610.0	646.1	649.8	522.8
70°	454.7	452.8	454.7	466.0	473.6	486.9	511.6	524.7	553.1	562.7	424.4
72.5°	373.2	371.3	373.2	382.7	390.2	401.6	422.5	437.7	462.2	473.6	329.6
75°	301.2	297.4	301.2	308.8	306.9	322.1	339.1	354.3	377.0	384.6	244.4
77.5°	231.2	231.2	231.2	238.7	238.7	253.8	261.5	280.4	293.7	305.0	180.0
80°	172.4	170.6	172.4	174.3	174.3	181.8	195.1	208.4	219.8	219.8	123.1
82.5°	121.2	117.5	121.2	121.2	121.2	125.0	132.6	136.4	144.0	149.7	77.6
85°	75.8	75.8	75.8	77.6	75.8	79.5	81.5	85.3	85.3	81.5	47.3
87.5°	49.2	47.3	49.2	47.3	47.3	45.5	45.5	45.5	43.6	41.7	26.5
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: P934011

CATALOG NUMBER: SQ4-FA-025U-100D-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: P934011

CATALOG NUMBER: SQ4-FA-025U-100D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	2030.9	2019.6	2019.6	2000.5	1993.0	1987.3	1977.9	1949.4	1941.8	1934.3	1945.7
5°	2047.9	2027.1	2011.9	1977.9	1949.4	1938.1	1902.1	1833.9	1788.4	1754.3	1735.3
7.5°	2051.8	2025.2	1996.8	1943.7	1875.6	1845.2	1735.3	1610.3	1576.3	1545.9	1526.9
10°	2047.9	2017.6	1977.9	1898.2	1737.2	1684.2	1574.3	1492.9	1472.0	1466.3	1472.0
12.5°	2034.7	2006.3	1951.3	1818.7	1593.3	1557.2	1492.9	1445.5	1441.7	1451.2	1502.4
15°	2011.9	1985.4	1921.0	1712.6	1513.7	1487.2	1441.7	1424.6	1445.5	1511.8	1665.3
17.5°	1989.2	1958.8	1879.3	1608.4	1453.0	1434.1	1401.9	1436.0	1553.5	1642.5	1693.6
20°	1958.8	1922.9	1832.0	1532.7	1409.5	1392.4	1377.3	1530.7	1619.8	1652.0	1680.4
22.5°	1922.9	1885.0	1767.5	1479.6	1364.0	1350.7	1360.2	1583.8	1619.8	1642.5	1667.2
25°	1875.6	1843.4	1691.7	1437.9	1328.1	1312.9	1348.9	1578.1	1598.9	1604.6	1653.9
27.5°	1832.0	1790.3	1612.2	1400.1	1284.5	1278.7	1358.4	1553.5	1568.6	1574.3	1627.4
30°	1778.9	1716.4	1523.2	1360.2	1239.0	1237.1	1360.2	1523.2	1519.4	1534.6	1587.5
32.5°	1724.0	1606.6	1422.7	1311.0	1195.4	1193.6	1347.0	1477.7	1473.9	1494.7	1534.6
35°	1672.8	1521.3	1286.4	1254.2	1140.5	1142.3	1314.8	1424.6	1426.5	1445.5	1470.1
37.5°	1619.8	1447.4	1136.7	1191.7	1087.4	1087.4	1271.2	1375.4	1371.6	1377.3	1411.3
40°	1557.2	1331.8	1004.1	1110.2	1038.2	1032.5	1218.1	1322.3	1309.1	1307.2	1354.6
42.5°	1491.0	1204.8	905.5	1002.2	981.3	973.8	1153.7	1257.9	1233.3	1239.0	1299.6
45°	1419.0	1170.8	829.8	846.8	922.6	916.9	1083.6	1184.0	1167.0	1182.2	1244.7
47.5°	1347.0	1102.6	805.1	702.9	860.1	858.2	1006.0	1112.0	1102.6	1117.8	1184.0
50°	1248.4	1026.8	803.2	602.5	790.0	797.6	913.2	1041.9	1041.9	1055.2	1125.3
52.5°	1121.5	934.0	729.3	545.6	708.5	731.2	831.7	981.3	985.2	998.4	1060.9
55°	1006.0	837.4	676.4	502.0	611.9	661.2	752.1	918.8	926.4	939.7	996.5
57.5°	899.9	697.2	665.0	450.8	522.8	570.3	682.0	858.2	862.0	873.4	928.3
60°	786.2	503.9	610.0	396.0	445.2	481.2	617.6	786.2	799.5	807.1	854.4
62.5°	657.3	365.7	553.1	358.0	407.4	414.9	564.5	718.1	735.1	740.7	769.2
65°	468.0	306.9	469.9	325.8	367.5	369.4	507.7	647.9	663.1	672.5	693.4
67.5°	316.3	250.1	358.0	295.5	337.2	339.1	452.8	566.4	587.3	594.8	608.1
70°	219.8	166.7	265.2	263.4	303.1	306.9	394.1	492.5	511.6	517.2	524.7
72.5°	161.0	134.5	219.8	236.8	267.1	270.9	333.5	409.2	428.2	433.8	437.7
75°	123.1	142.1	178.1	206.5	227.3	229.2	272.8	333.5	346.6	350.5	352.4
77.5°	98.5	132.6	130.7	166.7	185.7	181.8	214.0	257.6	269.0	269.0	269.0
80°	73.9	104.2	98.5	119.3	136.4	132.6	153.4	183.7	187.6	191.3	189.5
82.5°	55.0	66.3	66.3	75.8	90.9	87.2	102.3	119.3	119.3	119.3	123.1
85°	34.1	37.9	30.3	39.8	51.1	49.2	56.9	64.4	66.3	66.3	62.5
87.5°	20.8	17.0	9.5	15.2	22.8	22.8	26.5	28.4	26.5	26.5	26.5
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: P934011

CATALOG NUMBER: SQ4-FA-025U-100D-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: P934011  
 CATALOG NUMBER: SQ4-FA-025U-100D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	1932.4	1926.7	1934.3	1913.4	1934.3	1926.7	1932.4	1945.7	1934.3	1941.8	1949.4
5°	1695.6	1686.1	1655.8	1631.1	1655.8	1686.1	1695.6	1735.3	1754.3	1788.4	1833.9
7.5°	1515.5	1508.0	1500.4	1485.2	1500.4	1508.0	1515.5	1526.9	1545.9	1576.3	1610.3
10°	1475.8	1477.7	1489.1	1487.2	1489.1	1477.7	1475.8	1472.0	1466.3	1472.0	1492.9
12.5°	1578.1	1595.2	1657.7	1653.9	1657.7	1595.2	1578.1	1502.4	1451.2	1441.7	1445.5
15°	1695.6	1701.2	1714.5	1716.4	1714.5	1701.2	1695.6	1665.3	1511.8	1445.5	1424.6
17.5°	1706.9	1708.8	1718.3	1718.3	1718.3	1708.8	1706.9	1693.6	1642.5	1553.5	1436.0
20°	1697.5	1701.2	1720.2	1724.0	1720.2	1701.2	1697.5	1680.4	1652.0	1619.8	1530.7
22.5°	1693.6	1701.2	1716.4	1714.5	1716.4	1701.2	1693.6	1667.2	1642.5	1619.8	1583.8
25°	1674.7	1674.7	1676.6	1678.5	1676.6	1674.7	1674.7	1653.9	1604.6	1598.9	1578.1
27.5°	1635.0	1638.7	1650.1	1648.2	1650.1	1638.7	1635.0	1627.4	1574.3	1568.6	1553.5
30°	1598.9	1595.2	1585.7	1578.1	1585.7	1595.2	1598.9	1587.5	1534.6	1519.4	1523.2
32.5°	1538.3	1528.8	1519.4	1513.7	1519.4	1528.8	1538.3	1534.6	1494.7	1473.9	1477.7
35°	1466.3	1468.2	1466.3	1460.7	1466.3	1468.2	1466.3	1470.1	1445.5	1426.5	1424.6
37.5°	1415.2	1419.0	1417.1	1409.5	1417.1	1419.0	1415.2	1411.3	1377.3	1371.6	1375.4
40°	1362.1	1364.0	1362.1	1356.5	1362.1	1364.0	1362.1	1354.6	1307.2	1309.1	1322.3
42.5°	1311.0	1309.1	1303.4	1299.6	1303.4	1309.1	1311.0	1299.6	1239.0	1233.3	1257.9
45°	1252.3	1254.2	1242.8	1237.1	1242.8	1254.2	1252.3	1244.7	1182.2	1167.0	1184.0
47.5°	1193.6	1193.6	1184.0	1178.4	1184.0	1193.6	1193.6	1184.0	1117.8	1102.6	1112.0
50°	1131.0	1129.1	1115.8	1113.9	1115.8	1129.1	1131.0	1125.3	1055.2	1041.9	1041.9
52.5°	1059.1	1059.1	1060.9	1064.7	1060.9	1059.1	1059.1	1060.9	998.4	985.2	981.3
55°	996.5	998.4	1011.6	1015.5	1011.6	998.4	996.5	996.5	939.7	926.4	918.8
57.5°	932.1	932.1	941.6	941.6	941.6	932.1	932.1	928.3	873.4	862.0	858.2
60°	858.2	862.0	869.6	867.7	869.6	862.0	858.2	854.4	807.1	799.5	786.2
62.5°	780.5	784.3	786.2	782.4	786.2	784.3	780.5	769.2	740.7	735.1	718.1
65°	699.0	702.9	704.8	700.9	704.8	702.9	699.0	693.4	672.5	663.1	647.9
67.5°	615.7	613.8	611.9	619.5	611.9	613.8	615.7	608.1	594.8	587.3	566.4
70°	530.5	530.5	528.6	532.3	528.6	530.5	530.5	524.7	517.2	511.6	492.5
72.5°	439.5	437.7	445.2	439.5	445.2	437.7	439.5	437.7	433.8	428.2	409.2
75°	350.5	354.3	350.5	356.2	350.5	354.3	350.5	352.4	350.5	346.6	333.5
77.5°	267.1	270.9	267.1	267.1	267.1	270.9	267.1	269.0	269.0	269.0	257.6
80°	189.5	187.6	187.6	185.7	187.6	187.6	189.5	189.5	191.3	187.6	183.7
82.5°	121.2	119.3	119.3	123.1	119.3	119.3	121.2	123.1	119.3	119.3	119.3
85°	66.3	68.2	64.4	64.4	64.4	68.2	66.3	62.5	66.3	66.3	64.4
87.5°	24.7	22.8	22.8	22.8	22.8	22.8	24.7	26.5	26.5	26.5	28.4
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°	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	1977.9	1987.3	1993.0	2000.5	2019.6
5°	1902.1	1938.1	1949.4	1977.9	2011.9
7.5°	1735.3	1845.2	1875.6	1943.7	1996.8
10°	1574.3	1684.2	1737.2	1898.2	1977.9
12.5°	1492.9	1557.2	1593.3	1818.7	1951.3
15°	1441.7	1487.2	1513.7	1712.6	1921.0
17.5°	1401.9	1434.1	1453.0	1608.4	1879.3
20°	1377.3	1392.4	1409.5	1532.7	1832.0
22.5°	1360.2	1350.7	1364.0	1479.6	1767.5
25°	1348.9	1312.9	1328.1	1437.9	1691.7
27.5°	1358.4	1278.7	1284.5	1400.1	1612.2
30°	1360.2	1237.1	1239.0	1360.2	1523.2
32.5°	1347.0	1193.6	1195.4	1311.0	1422.7
35°	1314.8	1142.3	1140.5	1254.2	1286.4
37.5°	1271.2	1087.4	1087.4	1191.7	1136.7
40°	1218.1	1032.5	1038.2	1110.2	1004.1
42.5°	1153.7	973.8	981.3	1002.2	905.5
45°	1083.6	916.9	922.6	846.8	829.8
47.5°	1006.0	858.2	860.1	702.9	805.1
50°	913.2	797.6	790.0	602.5	803.2
52.5°	831.7	731.2	708.5	545.6	729.3
55°	752.1	661.2	611.9	502.0	676.4
57.5°	682.0	570.3	522.8	450.8	665.0
60°	617.6	481.2	445.2	396.0	610.0
62.5°	564.5	414.9	407.4	358.0	553.1
65°	507.7	369.4	367.5	325.8	469.9
67.5°	452.8	339.1	337.2	295.5	358.0
70°	394.1	306.9	303.1	263.4	265.2
72.5°	333.5	270.9	267.1	236.8	219.8
75°	272.8	229.2	227.3	206.5	178.1
77.5°	214.0	181.8	185.7	166.7	130.7
80°	153.4	132.6	136.4	119.3	98.5
82.5°	102.3	87.2	90.9	75.8	66.3
85°	56.9	49.2	51.1	39.8	30.3
87.5°	26.5	22.8	22.8	15.2	9.5
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: P934011

CATALOG NUMBER: SQ4-FA-025U-100D-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: P934011  
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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	15.88	17.08	16.54	17.76	18.55	18.71	19.90	19.37	20.58	21.37
	3H	16.38	17.46	17.06	18.15	18.97	20.07	21.15	20.75	21.84	22.66
	4H	16.59	17.60	17.28	18.30	19.14	20.53	21.55	21.23	22.25	23.08
	6H	16.73	17.66	17.43	18.37	19.22	20.83	21.77	21.54	22.48	23.33
	8H	16.74	17.63	17.46	18.36	19.21	20.92	21.81	21.64	22.54	23.39
	12H	16.72	17.57	17.44	18.29	19.17	20.97	21.82	21.69	22.54	23.42
4H	2H	16.95	17.97	17.65	18.67	19.50	19.16	20.17	19.85	20.87	21.71
	3H	18.01	18.86	18.72	19.59	20.45	20.69	21.54	21.40	22.27	23.13
	4H	18.30	19.07	19.03	19.81	20.69	21.23	22.00	21.96	22.74	23.62
	6H	18.44	19.11	19.19	19.87	20.77	21.61	22.28	22.36	23.04	23.94
	8H	18.46	19.08	19.21	19.84	20.74	21.73	22.35	22.48	23.11	24.01
	12H	18.44	19.00	19.21	19.78	20.69	21.80	22.36	22.57	23.14	24.05
8H	4H	18.78	19.40	19.53	20.16	21.07	21.38	22.00	22.13	22.77	23.67
	6H	19.05	19.57	19.84	20.37	21.28	21.83	22.35	22.61	23.15	24.06
	8H	19.10	19.56	19.89	20.36	21.28	21.98	22.44	22.78	23.25	24.17
	12H	19.10	19.51	19.89	20.30	21.28	22.10	22.50	22.89	23.30	24.28
12H	4H	18.80	19.36	19.57	20.15	21.05	21.36	21.92	22.13	22.71	23.62
	6H	19.12	19.58	19.91	20.38	21.30	21.83	22.29	22.62	23.09	24.02
	8H	19.20	19.61	20.00	20.40	21.38	22.01	22.41	22.80	23.21	24.19