

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: P934103

Luminaire Tested: SQ4-FA-025U-100D-B40-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934103
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-B40-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

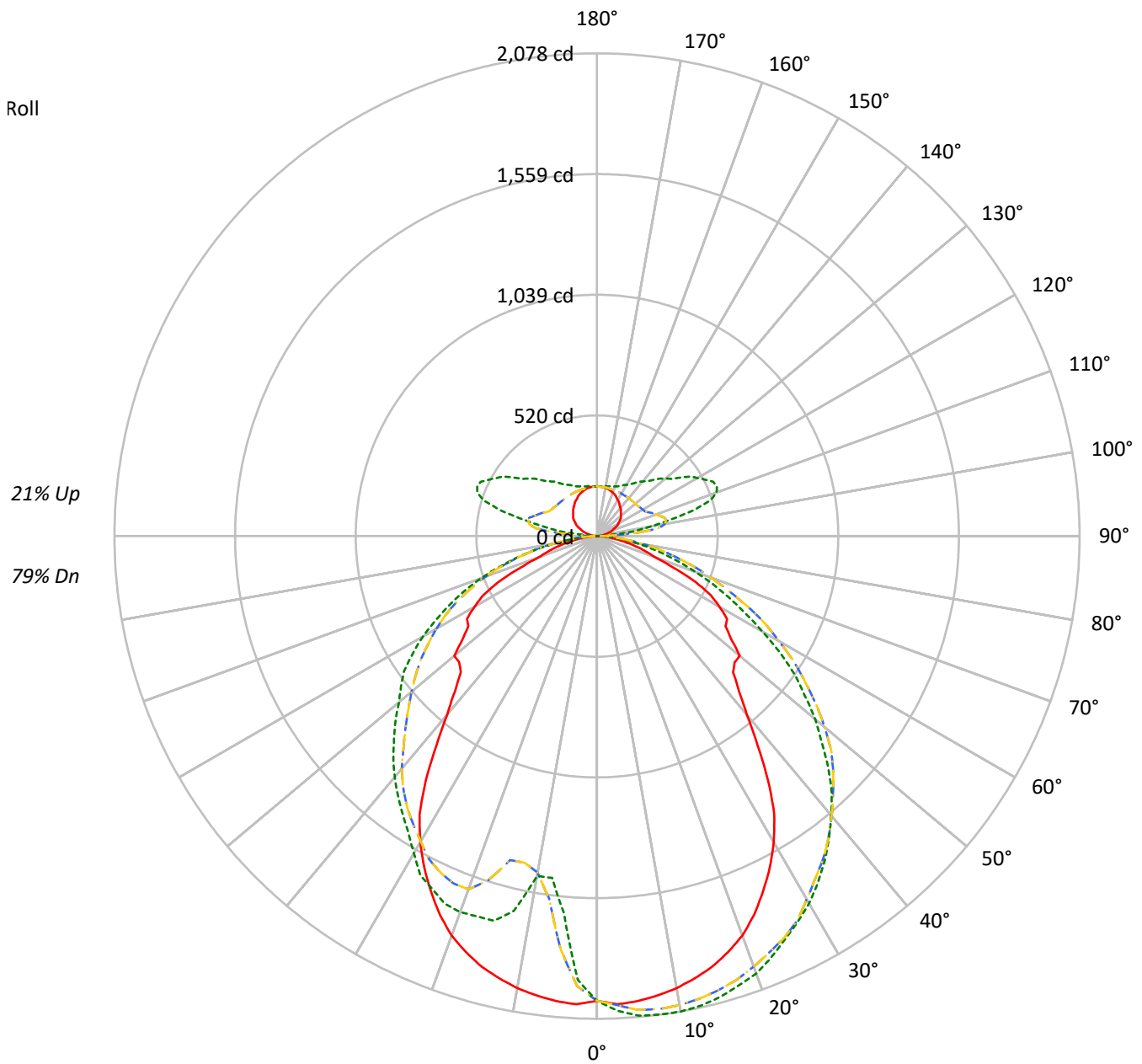
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6573.3 lumens
Efficiency: N/A
Efficacy: 112.9 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				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°	12374	12374	12374	12374
5°	12462	12492	12462	9822
10°	12375	12305	12375	8797
15°	12235	12038	12235	10052
20°	11975	11723	11975	10073
25°	11446	11262	11446	9860
30°	10765	10879	10765	9391
35°	9592	10395	9592	8876
40°	7988	9826	7988	8487
45°	7133	9160	7133	8039
50°	7572	8364	7572	7590
55°	7118	7508	7118	7331
60°	7328	6376	7328	6714
65°	6634	5271	6634	5892
70°	4581	4201	4581	4938
75°	4003	3105	4003	3719
80°	3203	2054	3203	2236
85°	1806	1087	1806	925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10940 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	2.7
10°-20°	512.7	7.8
20°-30°	792.5	12.1
30°-40°	946.1	14.4
40°-50°	951.6	14.5
50°-60°	828.0	12.6
60°-70°	587.1	8.9
70°-80°	310.6	4.7
80°-90°	78.2	1.2
90°-100°	104.2	1.6
100°-110°	274.0	4.2
110°-120°	284.1	4.3
120°-130°	227.9	3.5
130°-140°	178.8	2.7
140°-150°	137.2	2.1
150°-160°	98.8	1.5
160°-170°	60.5	0.9
170°-180°	20.4	0.3
0°-30°	1485.8	22.6
0°-40°	2431.9	37.0
0°-60°	4211.6	64.1
0°-90°	5187.4	78.9
90°-120°	662.2	10.1
90°-150°	1206.1	18.3
90°-180°	1386.0	21.1
0°-180°	6573.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2000	2000	2000	2000	2000	
5°	2010	2072	2010	1629	2010	191
15°	1919	2053	1919	1715	1919	540
25°	1690	1915	1690	1677	1690	776
35°	1285	1709	1285	1459	1285	795
45°	829	1408	829	1236	829	664
55°	676	1039	676	1014	676	621
65°	469	626	469	700	469	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	552	88	552	88	87
125°	122	440	122	440	122	108
135°	145	341	145	341	145	112
145°	169	277	169	277	169	106
155°	190	238	190	238	190	88
165°	206	222	206	222	206	58
175°	214	215	214	215	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°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2017.4	2017.4	2028.8	2032.5	2032.5	2026.9	2021.2	2026.9	2043.9	2049.6	2047.7
5°	2009.8	2025.0	2045.8	2049.6	2053.3	2051.4	2047.7	2051.4	2070.3	2074.2	2076.1
7.5°	1994.7	2023.1	2049.6	2055.3	2060.9	2055.3	2053.3	2057.2	2076.1	2079.9	2079.9
10°	1975.8	2015.5	2045.8	2049.6	2055.3	2049.6	2049.6	2057.2	2076.1	2079.9	2081.7
12.5°	1949.3	2004.2	2032.5	2036.3	2043.9	2042.0	2040.1	2047.7	2066.6	2070.3	2070.3
15°	1919.0	1983.3	2009.8	2013.6	2026.9	2023.1	2023.1	2030.6	2051.4	2057.2	2055.3
17.5°	1877.3	1956.8	1987.2	1992.8	2002.3	2000.3	2002.3	2009.8	2028.8	2032.5	2034.4
20°	1830.1	1920.9	1956.8	1962.5	1972.0	1972.0	1972.0	1981.4	2000.3	2008.0	2008.0
22.5°	1765.7	1883.1	1920.9	1924.7	1936.1	1936.1	1939.8	1953.1	1970.1	1972.0	1972.0
25°	1690.0	1841.4	1873.6	1884.9	1896.2	1902.0	1907.6	1915.3	1920.9	1919.0	1920.9
27.5°	1610.5	1788.4	1830.1	1837.6	1852.8	1858.4	1866.0	1867.9	1869.8	1875.4	1871.7
30°	1521.6	1714.6	1777.1	1784.6	1809.2	1813.0	1805.4	1809.2	1818.7	1822.5	1826.2
32.5°	1421.2	1604.9	1722.2	1739.2	1761.9	1750.5	1748.7	1754.3	1769.5	1769.5	1773.2
35°	1285.0	1519.7	1671.1	1686.2	1703.2	1690.0	1697.6	1699.4	1708.9	1714.6	1712.7
37.5°	1135.5	1445.9	1618.1	1629.4	1642.7	1625.7	1637.0	1642.7	1650.2	1646.5	1646.5
40°	1003.0	1330.4	1555.6	1563.2	1574.6	1561.3	1572.7	1576.4	1580.2	1576.4	1574.6
42.5°	904.6	1203.6	1489.4	1498.9	1491.3	1500.8	1504.5	1512.1	1506.4	1498.9	1498.9
45°	828.9	1169.6	1417.5	1428.9	1417.5	1432.6	1438.3	1438.3	1421.2	1417.5	1415.6
47.5°	804.3	1101.4	1345.6	1345.6	1339.9	1358.8	1368.2	1355.0	1338.0	1332.3	1332.3
50°	802.4	1025.8	1247.1	1239.6	1266.0	1288.8	1279.3	1266.0	1252.9	1232.0	1232.0
52.5°	728.6	933.0	1120.3	1148.8	1190.4	1203.6	1188.5	1175.2	1152.5	1143.0	1135.5
55°	675.7	836.5	1004.9	1061.7	1105.2	1122.2	1093.9	1080.6	1046.6	1040.9	1037.1
57.5°	664.3	696.5	898.9	970.9	1023.9	1021.9	1004.9	980.3	951.9	946.2	944.4
60°	609.4	503.4	785.4	870.6	925.4	919.8	904.6	881.9	855.4	851.7	847.8
62.5°	552.6	365.3	656.7	753.2	830.8	828.9	815.7	781.6	762.7	753.2	745.7
65°	469.4	306.6	467.5	626.4	738.1	741.8	713.5	688.8	668.0	656.7	654.8
67.5°	357.6	249.8	316.0	522.3	649.1	645.4	609.4	598.0	571.6	565.8	554.5
70°	264.9	166.6	219.6	423.9	562.1	552.6	524.2	511.0	486.4	473.1	465.6
72.5°	219.6	134.4	160.8	329.3	473.1	461.7	437.2	422.0	401.2	389.8	382.3
75°	177.9	141.9	123.0	244.1	384.2	376.7	353.9	338.7	321.7	306.6	308.5
77.5°	130.5	132.5	98.4	179.8	304.6	293.4	280.1	261.2	253.6	238.5	238.5
80°	98.4	104.1	73.8	123.0	219.6	219.6	208.2	194.9	181.6	174.1	174.1
82.5°	66.3	66.3	54.9	77.5	149.6	143.8	136.3	132.5	124.9	121.1	121.1
85°	30.3	37.8	34.1	47.3	81.4	85.2	85.2	81.4	79.5	75.7	77.5
87.5°	9.5	17.0	20.8	26.5	41.6	43.5	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	9.6	7.3	5.4	5.4
92.5°	5.7	15.5	25.2	27.7	39.0	54.0	61.4	53.8	38.6	27.2	26.2
95°	13.8	31.6	49.5	54.0	95.8	151.6	179.4	160.2	121.5	92.5	89.3
97.5°	23.8	39.5	55.3	59.2	129.0	222.0	268.5	256.3	232.0	213.6	207.4
100°	31.6	45.8	60.2	63.7	141.1	244.4	296.0	296.8	298.6	300.0	292.5
102.5°	38.2	51.6	64.8	68.2	146.7	251.4	303.7	319.3	350.4	373.8	367.4
105°	49.4	60.6	71.9	74.8	150.8	252.1	302.8	337.7	407.5	459.8	456.4
107.5°	60.8	71.3	81.8	84.5	151.6	240.9	285.6	334.3	431.7	504.6	505.5
110°	68.6	78.1	87.6	90.0	150.4	231.0	271.3	325.8	434.5	516.1	519.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	76.2	85.3	94.3	96.6	150.4	222.3	258.2	313.9	425.3	508.7	514.2
115°	87.7	96.1	104.4	106.5	151.8	212.3	242.6	296.2	403.5	483.9	491.5
117.5°	99.0	106.6	114.1	116.0	154.6	206.1	231.9	280.3	377.0	449.6	458.0
120°	105.6	112.8	119.9	121.7	157.0	204.1	227.6	271.8	360.2	426.6	434.8
122.5°	112.0	119.3	126.4	128.3	160.2	202.9	224.2	264.1	343.7	403.5	411.6
125°	122.0	128.5	135.1	136.8	164.7	202.1	220.7	254.5	322.2	372.9	380.4
127.5°	130.0	136.6	143.2	144.9	169.1	201.5	217.6	246.7	304.8	348.4	354.7
130°	134.3	141.4	148.5	150.3	172.4	201.8	216.5	242.4	294.0	332.8	338.6
132.5°	138.8	145.9	153.0	154.8	175.1	202.1	215.5	238.7	285.0	319.6	324.8
135°	145.4	151.8	158.3	160.0	177.9	201.9	213.8	233.2	272.0	301.0	305.5
137.5°	152.1	158.5	164.9	166.6	182.2	203.1	213.5	230.0	262.7	287.3	290.9
140°	157.7	163.6	169.5	171.0	184.9	203.3	212.5	226.6	255.0	276.2	279.6
142.5°	162.0	167.4	173.0	174.3	187.0	204.0	212.5	224.9	249.8	268.5	271.4
145°	168.6	173.3	178.1	179.3	189.9	204.0	211.1	221.2	241.5	256.8	259.0
147.5°	175.1	179.8	184.5	185.7	194.2	205.4	211.1	219.1	235.0	247.1	248.9
150°	179.4	183.6	187.9	189.0	196.3	206.2	211.1	217.8	231.3	241.4	243.0
152.5°	183.9	187.1	190.3	191.1	197.8	206.7	211.1	216.8	228.3	237.0	238.2
155°	190.5	192.9	195.3	195.9	200.9	207.7	211.1	215.6	224.8	231.7	232.4
157.5°	195.4	197.7	200.0	200.5	204.1	208.8	211.1	214.6	221.8	227.1	227.7
160°	198.7	200.5	202.3	202.7	205.5	209.2	211.1	214.1	220.2	224.8	225.1
162.5°	202.0	203.3	204.7	205.0	207.0	209.7	211.1	213.6	218.8	222.7	223.0
165°	205.6	206.8	208.0	208.3	209.2	210.5	211.1	212.9	216.6	219.4	219.6
167.5°	208.9	209.4	210.0	210.2	211.0	212.0	212.5	213.7	216.1	217.9	218.0
170°	211.1	211.6	212.2	212.3	212.4	212.5	212.5	213.7	216.1	217.9	217.9
172.5°	212.2	212.3	212.5	212.5	212.5	212.5	212.5	213.4	215.4	216.8	216.7
175°	213.8	213.8	213.8	213.8	213.3	212.8	212.5	213.1	214.3	215.3	215.3
177.5°	213.8	213.8	213.8	213.8	213.4	213.0	212.8	213.3	214.2	215.0	214.9
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2051.4	2045.8	2051.4	2047.7	2049.6	2043.9	2026.9	2021.2	2026.9	2032.5	2032.5
5°	2076.1	2072.3	2076.1	2076.1	2074.2	2070.3	2051.4	2047.7	2051.4	2053.3	2049.6
7.5°	2083.6	2078.0	2083.6	2079.9	2079.9	2076.1	2057.2	2053.3	2055.3	2060.9	2055.3
10°	2083.6	2078.0	2083.6	2081.7	2079.9	2076.1	2057.2	2049.6	2049.6	2055.3	2049.6
12.5°	2074.2	2070.3	2074.2	2070.3	2070.3	2066.6	2047.7	2040.1	2042.0	2043.9	2036.3
15°	2059.1	2053.3	2059.1	2055.3	2057.2	2051.4	2030.6	2023.1	2023.1	2026.9	2013.6
17.5°	2036.3	2028.8	2036.3	2034.4	2032.5	2028.8	2009.8	2002.3	2000.3	2002.3	1992.8
20°	2009.8	2004.2	2009.8	2008.0	2008.0	2000.3	1981.4	1972.0	1972.0	1972.0	1962.5
22.5°	1968.2	1962.5	1968.2	1972.0	1972.0	1970.1	1953.1	1939.8	1936.1	1936.1	1924.7
25°	1920.9	1915.3	1920.9	1920.9	1919.0	1920.9	1915.3	1907.6	1902.0	1896.2	1884.9
27.5°	1875.4	1871.7	1875.4	1871.7	1875.4	1869.8	1867.9	1866.0	1858.4	1852.8	1837.6
30°	1830.1	1826.2	1830.1	1826.2	1822.5	1818.7	1809.2	1805.4	1813.0	1809.2	1784.6
32.5°	1773.2	1769.5	1773.2	1773.2	1769.5	1769.5	1754.3	1748.7	1750.5	1761.9	1739.2
35°	1714.6	1708.9	1714.6	1712.7	1714.6	1708.9	1699.4	1697.6	1690.0	1703.2	1686.2
37.5°	1646.5	1640.8	1646.5	1646.5	1646.5	1650.2	1642.7	1637.0	1625.7	1642.7	1629.4
40°	1576.4	1568.9	1576.4	1574.6	1576.4	1580.2	1576.4	1572.7	1561.3	1574.6	1563.2
42.5°	1497.0	1495.1	1497.0	1498.9	1498.9	1506.4	1512.1	1504.5	1500.8	1491.3	1498.9
45°	1411.8	1408.1	1411.8	1415.6	1417.5	1421.2	1438.3	1438.3	1432.6	1417.5	1428.9
47.5°	1321.0	1311.5	1321.0	1332.3	1332.3	1338.0	1355.0	1368.2	1358.8	1339.9	1345.6
50°	1224.4	1226.3	1224.4	1232.0	1232.0	1252.9	1266.0	1279.3	1288.8	1266.0	1239.6
52.5°	1129.9	1128.0	1129.9	1135.5	1143.0	1152.5	1175.2	1188.5	1203.6	1190.4	1148.8
55°	1035.2	1038.9	1035.2	1037.1	1040.9	1046.6	1080.6	1093.9	1122.2	1105.2	1061.7
57.5°	940.6	934.8	940.6	944.4	946.2	951.9	980.3	1004.9	1021.9	1023.9	970.9
60°	830.8	823.2	830.8	847.8	851.7	855.4	881.9	904.6	919.8	925.4	870.6
62.5°	734.3	721.0	734.3	745.7	753.2	762.7	781.6	815.7	828.9	830.8	753.2
65°	632.1	626.4	632.1	654.8	656.7	668.0	688.8	713.5	741.8	738.1	626.4
67.5°	539.4	539.4	539.4	554.5	565.8	571.6	598.0	609.4	645.4	649.1	522.3
70°	454.2	452.3	454.2	465.6	473.1	486.4	511.0	524.2	552.6	562.1	423.9
72.5°	372.8	370.9	372.8	382.3	389.8	401.2	422.0	437.2	461.7	473.1	329.3
75°	300.9	297.1	300.9	308.5	306.6	321.7	338.7	353.9	376.7	384.2	244.1
77.5°	230.9	230.9	230.9	238.5	238.5	253.6	261.2	280.1	293.4	304.6	179.8
80°	172.2	170.4	172.2	174.1	174.1	181.6	194.9	208.2	219.6	219.6	123.0
82.5°	121.1	117.4	121.1	121.1	121.1	124.9	132.5	136.3	143.8	149.6	77.5
85°	75.7	75.7	75.7	77.5	75.7	79.5	81.4	85.2	85.2	81.4	47.3
87.5°	49.2	47.3	49.2	47.3	47.3	45.5	45.5	45.5	43.5	41.6	26.5
90°	5.4	5.4	5.4	5.4	5.4	7.3	9.6	10.9	9.4	6.3	4.0
92.5°	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.4	54.0	39.0	27.7
95°	76.1	63.0	76.1	89.3	92.5	121.5	160.2	179.4	151.6	95.8	54.0
97.5°	182.4	157.4	182.4	207.4	213.6	232.0	256.3	268.5	222.0	129.0	59.2
100°	262.8	233.0	262.8	292.5	300.0	298.6	296.8	296.0	244.4	141.1	63.7
102.5°	341.9	316.4	341.9	367.4	373.8	350.4	319.3	303.7	251.4	146.7	68.2
105°	442.7	429.0	442.7	456.4	459.8	407.5	337.7	302.8	252.1	150.8	74.8
107.5°	508.7	512.1	508.7	505.5	504.6	431.7	334.3	285.6	240.9	151.6	84.5
110°	533.9	548.3	533.9	519.6	516.1	434.5	325.8	271.3	231.0	150.4	90.0



TEST NUMBER: P934103

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	536.1	558.1	536.1	514.2	508.7	425.3	313.9	258.2	222.3	150.4	96.6
115°	521.9	552.4	521.9	491.5	483.9	403.5	296.2	242.6	212.3	151.8	106.5
117.5°	491.8	525.5	491.8	458.0	449.6	377.0	280.3	231.9	206.1	154.6	116.0
120°	467.6	500.3	467.6	434.8	426.6	360.2	271.8	227.6	204.1	157.0	121.7
122.5°	443.9	476.2	443.9	411.6	403.5	343.7	264.1	224.2	202.9	160.2	128.3
125°	410.1	439.9	410.1	380.4	372.9	322.2	254.5	220.7	202.1	164.7	136.8
127.5°	379.8	404.9	379.8	354.7	348.4	304.8	246.7	217.6	201.5	169.1	144.9
130°	361.8	385.1	361.8	338.6	332.8	294.0	242.4	216.5	201.8	172.4	150.3
132.5°	345.6	366.4	345.6	324.8	319.6	285.0	238.7	215.5	202.1	175.1	154.8
135°	323.4	341.3	323.4	305.5	301.0	272.0	233.2	213.8	201.9	177.9	160.0
137.5°	305.6	320.2	305.6	290.9	287.3	262.7	230.0	213.5	203.1	182.2	166.6
140°	293.3	307.0	293.3	279.6	276.2	255.0	226.6	212.5	203.3	184.9	171.0
142.5°	283.2	295.0	283.2	271.4	268.5	249.8	224.9	212.5	204.0	187.0	174.3
145°	268.0	277.0	268.0	259.0	256.8	241.5	221.2	211.1	204.0	189.9	179.3
147.5°	256.3	263.7	256.3	248.9	247.1	235.0	219.1	211.1	205.4	194.2	185.7
150°	249.0	255.0	249.0	243.0	241.4	231.3	217.8	211.1	206.2	196.3	189.0
152.5°	242.7	247.2	242.7	238.2	237.0	228.3	216.8	211.1	206.7	197.8	191.1
155°	235.4	238.5	235.4	232.4	231.7	224.8	215.6	211.1	207.7	200.9	195.9
157.5°	229.8	231.9	229.8	227.7	227.1	221.8	214.6	211.1	208.8	204.1	200.5
160°	226.3	227.6	226.3	225.1	224.8	220.2	214.1	211.1	209.2	205.5	202.7
162.5°	224.1	225.3	224.1	223.0	222.7	218.8	213.6	211.1	209.7	207.0	205.0
165°	220.9	222.1	220.9	219.6	219.4	216.6	212.9	211.1	210.5	209.2	208.3
167.5°	218.6	219.1	218.6	218.0	217.9	216.1	213.7	212.5	212.0	211.0	210.2
170°	217.9	217.9	217.9	217.9	217.9	216.1	213.7	212.5	212.5	212.4	212.3
172.5°	216.2	215.8	216.2	216.7	216.8	215.4	213.4	212.5	212.5	212.5	212.5
175°	215.3	215.3	215.3	215.3	215.3	214.3	213.1	212.5	212.8	213.3	213.8
177.5°	214.3	213.8	214.3	214.9	215.0	214.2	213.3	212.8	213.0	213.4	213.8
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P934103

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2028.8	2017.4	2017.4	1998.4	1990.9	1985.3	1975.8	1947.3	1939.8	1932.3	1943.6
5°	2045.8	2025.0	2009.8	1975.8	1947.3	1936.1	1900.1	1832.0	1786.5	1752.4	1733.5
7.5°	2049.6	2023.1	1994.7	1941.7	1873.6	1843.2	1733.5	1608.6	1574.6	1544.2	1525.3
10°	2045.8	2015.5	1975.8	1896.2	1735.4	1682.4	1572.7	1491.3	1470.5	1464.8	1470.5
12.5°	2032.5	2004.2	1949.3	1816.8	1591.6	1555.6	1491.3	1444.0	1440.2	1449.7	1500.8
15°	2009.8	1983.3	1919.0	1710.8	1512.1	1485.6	1440.2	1423.1	1444.0	1510.2	1663.5
17.5°	1987.2	1956.8	1877.3	1606.7	1451.5	1432.6	1400.4	1434.5	1551.9	1640.8	1691.9
20°	1956.8	1920.9	1830.1	1531.1	1408.1	1391.0	1375.9	1529.1	1618.1	1650.2	1678.6
22.5°	1920.9	1883.1	1765.7	1478.1	1362.6	1349.3	1358.8	1582.1	1618.1	1640.8	1665.4
25°	1873.6	1841.4	1690.0	1436.4	1326.7	1311.5	1347.5	1576.4	1597.2	1603.0	1652.2
27.5°	1830.1	1788.4	1610.5	1398.6	1283.1	1277.4	1357.0	1551.9	1567.0	1572.7	1625.7
30°	1777.1	1714.6	1521.6	1358.8	1237.7	1235.8	1358.8	1521.6	1517.8	1533.0	1585.9
32.5°	1722.2	1604.9	1421.2	1309.6	1194.1	1192.3	1345.6	1476.1	1472.3	1493.1	1533.0
35°	1671.1	1519.7	1285.0	1252.9	1139.3	1141.1	1313.4	1423.1	1425.1	1444.0	1468.6
37.5°	1618.1	1445.9	1135.5	1190.4	1086.3	1086.3	1269.9	1374.0	1370.1	1375.9	1409.9
40°	1555.6	1330.4	1003.0	1109.0	1037.1	1031.4	1216.9	1321.0	1307.7	1305.9	1353.1
42.5°	1489.4	1203.6	904.6	1001.1	980.3	972.8	1152.5	1256.6	1232.0	1237.7	1298.2
45°	1417.5	1169.6	828.9	845.9	921.7	915.9	1082.5	1182.8	1165.8	1181.0	1243.4
47.5°	1345.6	1101.4	804.3	702.1	859.2	857.3	1004.9	1110.9	1101.4	1116.6	1182.8
50°	1247.1	1025.8	802.4	601.8	789.2	796.8	912.2	1040.9	1040.9	1054.1	1124.1
52.5°	1120.3	933.0	728.6	545.0	707.8	730.5	830.8	980.3	984.1	997.3	1059.8
55°	1004.9	836.5	675.7	501.5	611.3	660.5	751.3	917.9	925.4	938.7	995.5
57.5°	898.9	696.5	664.3	450.4	522.3	569.7	681.3	857.3	861.1	872.5	927.3
60°	785.4	503.4	609.4	395.6	444.7	480.7	616.9	785.4	798.7	806.2	853.5
62.5°	656.7	365.3	552.6	357.6	406.9	414.5	563.9	717.3	734.3	739.9	768.4
65°	467.5	306.6	469.4	325.5	367.1	369.0	507.2	647.2	662.4	671.8	692.7
67.5°	316.0	249.8	357.6	295.2	336.8	338.7	452.3	565.8	586.7	594.2	607.5
70°	219.6	166.6	264.9	263.1	302.8	306.6	393.7	492.0	511.0	516.7	524.2
72.5°	160.8	134.4	219.6	236.6	266.8	270.6	333.1	408.7	427.7	433.4	437.2
75°	123.0	141.9	177.9	206.3	227.1	229.0	272.6	333.1	346.3	350.1	352.0
77.5°	98.4	132.5	130.5	166.6	185.5	181.6	213.8	257.4	268.7	268.7	268.7
80°	73.8	104.1	98.4	119.2	136.3	132.5	153.3	183.6	187.4	191.1	189.3
82.5°	54.9	66.3	66.3	75.7	90.8	87.1	102.2	119.2	119.2	119.2	123.0
85°	34.1	37.8	30.3	39.7	51.1	49.2	56.8	64.4	66.3	66.3	62.5
87.5°	20.8	17.0	9.5	15.2	22.7	22.7	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	9.6	7.3
92.5°	25.2	15.5	5.7	15.5	25.2	27.7	39.0	54.0	61.4	53.8	38.6
95°	49.5	31.6	13.8	31.6	49.5	54.0	95.8	151.6	179.4	160.2	121.5
97.5°	55.3	39.5	23.8	39.5	55.3	59.2	129.0	222.0	268.5	256.3	232.0
100°	60.2	45.8	31.6	45.8	60.2	63.7	141.1	244.4	296.0	296.8	298.6
102.5°	64.8	51.6	38.2	51.6	64.8	68.2	146.7	251.4	303.7	319.3	350.4
105°	71.9	60.6	49.4	60.6	71.9	74.8	150.8	252.1	302.8	337.7	407.5
107.5°	81.8	71.3	60.8	71.3	81.8	84.5	151.6	240.9	285.6	334.3	431.7
110°	87.6	78.1	68.6	78.1	87.6	90.0	150.4	231.0	271.3	325.8	434.5



TEST NUMBER: P934103

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	94.3	85.3	76.2	85.3	94.3	96.6	150.4	222.3	258.2	313.9	425.3
115°	104.4	96.1	87.7	96.1	104.4	106.5	151.8	212.3	242.6	296.2	403.5
117.5°	114.1	106.6	99.0	106.6	114.1	116.0	154.6	206.1	231.9	280.3	377.0
120°	119.9	112.8	105.6	112.8	119.9	121.7	157.0	204.1	227.6	271.8	360.2
122.5°	126.4	119.3	112.0	119.3	126.4	128.3	160.2	202.9	224.2	264.1	343.7
125°	135.1	128.5	122.0	128.5	135.1	136.8	164.7	202.1	220.7	254.5	322.2
127.5°	143.2	136.6	130.0	136.6	143.2	144.9	169.1	201.5	217.6	246.7	304.8
130°	148.5	141.4	134.3	141.4	148.5	150.3	172.4	201.8	216.5	242.4	294.0
132.5°	153.0	145.9	138.8	145.9	153.0	154.8	175.1	202.1	215.5	238.7	285.0
135°	158.3	151.8	145.4	151.8	158.3	160.0	177.9	201.9	213.8	233.2	272.0
137.5°	164.9	158.5	152.1	158.5	164.9	166.6	182.2	203.1	213.5	230.0	262.7
140°	169.5	163.6	157.7	163.6	169.5	171.0	184.9	203.3	212.5	226.6	255.0
142.5°	173.0	167.4	162.0	167.4	173.0	174.3	187.0	204.0	212.5	224.9	249.8
145°	178.1	173.3	168.6	173.3	178.1	179.3	189.9	204.0	211.1	221.2	241.5
147.5°	184.5	179.8	175.1	179.8	184.5	185.7	194.2	205.4	211.1	219.1	235.0
150°	187.9	183.6	179.4	183.6	187.9	189.0	196.3	206.2	211.1	217.8	231.3
152.5°	190.3	187.1	183.9	187.1	190.3	191.1	197.8	206.7	211.1	216.8	228.3
155°	195.3	192.9	190.5	192.9	195.3	195.9	200.9	207.7	211.1	215.6	224.8
157.5°	200.0	197.7	195.4	197.7	200.0	200.5	204.1	208.8	211.1	214.6	221.8
160°	202.3	200.5	198.7	200.5	202.3	202.7	205.5	209.2	211.1	214.1	220.2
162.5°	204.7	203.3	202.0	203.3	204.7	205.0	207.0	209.7	211.1	213.6	218.8
165°	208.0	206.8	205.6	206.8	208.0	208.3	209.2	210.5	211.1	212.9	216.6
167.5°	210.0	209.4	208.9	209.4	210.0	210.2	211.0	212.0	212.5	213.7	216.1
170°	212.2	211.6	211.1	211.6	212.2	212.3	212.4	212.5	212.5	213.7	216.1
172.5°	212.5	212.3	212.2	212.3	212.5	212.5	212.5	212.5	212.5	213.4	215.4
175°	213.8	213.8	213.8	213.8	213.8	213.8	213.3	212.8	212.5	213.1	214.3
177.5°	213.8	213.8	213.8	213.8	213.8	213.8	213.4	213.0	212.8	213.3	214.2
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P934103
 CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	1930.3	1924.7	1932.3	1911.4	1932.3	1924.7	1930.3	1943.6	1932.3	1939.8	1947.3
5°	1693.8	1684.3	1654.1	1629.4	1654.1	1684.3	1693.8	1733.5	1752.4	1786.5	1832.0
7.5°	1514.0	1506.4	1498.9	1483.7	1498.9	1506.4	1514.0	1525.3	1544.2	1574.6	1608.6
10°	1474.2	1476.1	1487.5	1485.6	1487.5	1476.1	1474.2	1470.5	1464.8	1470.5	1491.3
12.5°	1576.4	1593.5	1656.0	1652.2	1656.0	1593.5	1576.4	1500.8	1449.7	1440.2	1444.0
15°	1693.8	1699.4	1712.7	1714.6	1712.7	1699.4	1693.8	1663.5	1510.2	1444.0	1423.1
17.5°	1705.2	1707.1	1716.5	1716.5	1716.5	1707.1	1705.2	1691.9	1640.8	1551.9	1434.5
20°	1695.7	1699.4	1718.4	1722.2	1718.4	1699.4	1695.7	1678.6	1650.2	1618.1	1529.1
22.5°	1691.9	1699.4	1714.6	1712.7	1714.6	1699.4	1691.9	1665.4	1640.8	1618.1	1582.1
25°	1673.0	1673.0	1674.9	1676.8	1674.9	1673.0	1673.0	1652.2	1603.0	1597.2	1576.4
27.5°	1633.2	1637.0	1648.3	1646.5	1648.3	1637.0	1633.2	1625.7	1572.7	1567.0	1551.9
30°	1597.2	1593.5	1584.1	1576.4	1584.1	1593.5	1597.2	1585.9	1533.0	1517.8	1521.6
32.5°	1536.7	1527.2	1517.8	1512.1	1517.8	1527.2	1536.7	1533.0	1493.1	1472.3	1476.1
35°	1464.8	1466.7	1464.8	1459.1	1464.8	1466.7	1464.8	1468.6	1444.0	1425.1	1423.1
37.5°	1413.7	1417.5	1415.6	1408.1	1415.6	1417.5	1413.7	1409.9	1375.9	1370.1	1374.0
40°	1360.7	1362.6	1360.7	1355.0	1360.7	1362.6	1360.7	1353.1	1305.9	1307.7	1321.0
42.5°	1309.6	1307.7	1302.0	1298.2	1302.0	1307.7	1309.6	1298.2	1237.7	1232.0	1256.6
45°	1251.0	1252.9	1241.5	1235.8	1241.5	1252.9	1251.0	1243.4	1181.0	1165.8	1182.8
47.5°	1192.3	1192.3	1182.8	1177.1	1182.8	1192.3	1192.3	1182.8	1116.6	1101.4	1110.9
50°	1129.9	1128.0	1114.7	1112.8	1114.7	1128.0	1129.9	1124.1	1054.1	1040.9	1040.9
52.5°	1057.9	1057.9	1059.8	1063.6	1059.8	1057.9	1057.9	1059.8	997.3	984.1	980.3
55°	995.5	997.3	1010.6	1014.4	1010.6	997.3	995.5	995.5	938.7	925.4	917.9
57.5°	931.1	931.1	940.6	940.6	940.6	931.1	931.1	927.3	872.5	861.1	857.3
60°	857.3	861.1	868.7	866.8	868.7	861.1	857.3	853.5	806.2	798.7	785.4
62.5°	779.7	783.5	785.4	781.6	785.4	783.5	779.7	768.4	739.9	734.3	717.3
65°	698.3	702.1	704.0	700.2	704.0	702.1	698.3	692.7	671.8	662.4	647.2
67.5°	615.0	613.2	611.3	618.8	611.3	613.2	615.0	607.5	594.2	586.7	565.8
70°	529.9	529.9	528.0	531.7	528.0	529.9	529.9	524.2	516.7	511.0	492.0
72.5°	439.0	437.2	444.7	439.0	444.7	437.2	439.0	437.2	433.4	427.7	408.7
75°	350.1	353.9	350.1	355.8	350.1	353.9	350.1	352.0	350.1	346.3	333.1
77.5°	266.8	270.6	266.8	266.8	266.8	270.6	266.8	268.7	268.7	268.7	257.4
80°	189.3	187.4	187.4	185.5	187.4	187.4	189.3	189.3	191.1	187.4	183.6
82.5°	121.1	119.2	119.2	123.0	119.2	119.2	121.1	123.0	119.2	119.2	119.2
85°	66.3	68.1	64.4	64.4	64.4	68.1	66.3	62.5	66.3	66.3	64.4
87.5°	24.6	22.7	22.7	22.7	22.7	22.7	24.6	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	9.6	10.9	9.4
92.5°	27.2	26.2	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.4	54.0
95°	92.5	89.3	76.1	63.0	76.1	89.3	92.5	121.5	160.2	179.4	151.6
97.5°	213.6	207.4	182.4	157.4	182.4	207.4	213.6	232.0	256.3	268.5	222.0
100°	300.0	292.5	262.8	233.0	262.8	292.5	300.0	298.6	296.8	296.0	244.4
102.5°	373.8	367.4	341.9	316.4	341.9	367.4	373.8	350.4	319.3	303.7	251.4
105°	459.8	456.4	442.7	429.0	442.7	456.4	459.8	407.5	337.7	302.8	252.1
107.5°	504.6	505.5	508.7	512.1	508.7	505.5	504.6	431.7	334.3	285.6	240.9
110°	516.1	519.6	533.9	548.3	533.9	519.6	516.1	434.5	325.8	271.3	231.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	508.7	514.2	536.1	558.1	536.1	514.2	508.7	425.3	313.9	258.2	222.3
115°	483.9	491.5	521.9	552.4	521.9	491.5	483.9	403.5	296.2	242.6	212.3
117.5°	449.6	458.0	491.8	525.5	491.8	458.0	449.6	377.0	280.3	231.9	206.1
120°	426.6	434.8	467.6	500.3	467.6	434.8	426.6	360.2	271.8	227.6	204.1
122.5°	403.5	411.6	443.9	476.2	443.9	411.6	403.5	343.7	264.1	224.2	202.9
125°	372.9	380.4	410.1	439.9	410.1	380.4	372.9	322.2	254.5	220.7	202.1
127.5°	348.4	354.7	379.8	404.9	379.8	354.7	348.4	304.8	246.7	217.6	201.5
130°	332.8	338.6	361.8	385.1	361.8	338.6	332.8	294.0	242.4	216.5	201.8
132.5°	319.6	324.8	345.6	366.4	345.6	324.8	319.6	285.0	238.7	215.5	202.1
135°	301.0	305.5	323.4	341.3	323.4	305.5	301.0	272.0	233.2	213.8	201.9
137.5°	287.3	290.9	305.6	320.2	305.6	290.9	287.3	262.7	230.0	213.5	203.1
140°	276.2	279.6	293.3	307.0	293.3	279.6	276.2	255.0	226.6	212.5	203.3
142.5°	268.5	271.4	283.2	295.0	283.2	271.4	268.5	249.8	224.9	212.5	204.0
145°	256.8	259.0	268.0	277.0	268.0	259.0	256.8	241.5	221.2	211.1	204.0
147.5°	247.1	248.9	256.3	263.7	256.3	248.9	247.1	235.0	219.1	211.1	205.4
150°	241.4	243.0	249.0	255.0	249.0	243.0	241.4	231.3	217.8	211.1	206.2
152.5°	237.0	238.2	242.7	247.2	242.7	238.2	237.0	228.3	216.8	211.1	206.7
155°	231.7	232.4	235.4	238.5	235.4	232.4	231.7	224.8	215.6	211.1	207.7
157.5°	227.1	227.7	229.8	231.9	229.8	227.7	227.1	221.8	214.6	211.1	208.8
160°	224.8	225.1	226.3	227.6	226.3	225.1	224.8	220.2	214.1	211.1	209.2
162.5°	222.7	223.0	224.1	225.3	224.1	223.0	222.7	218.8	213.6	211.1	209.7
165°	219.4	219.6	220.9	222.1	220.9	219.6	219.4	216.6	212.9	211.1	210.5
167.5°	217.9	218.0	218.6	219.1	218.6	218.0	217.9	216.1	213.7	212.5	212.0
170°	217.9	217.9	217.9	217.9	217.9	217.9	217.9	216.1	213.7	212.5	212.5
172.5°	216.8	216.7	216.2	215.8	216.2	216.7	216.8	215.4	213.4	212.5	212.5
175°	215.3	215.3	215.3	215.3	215.3	215.3	215.3	214.3	213.1	212.5	212.8
177.5°	215.0	214.9	214.3	213.8	214.3	214.9	215.0	214.2	213.3	212.8	213.0
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	1975.8	1985.3	1990.9	1998.4	2017.4
5°	1900.1	1936.1	1947.3	1975.8	2009.8
7.5°	1733.5	1843.2	1873.6	1941.7	1994.7
10°	1572.7	1682.4	1735.4	1896.2	1975.8
12.5°	1491.3	1555.6	1591.6	1816.8	1949.3
15°	1440.2	1485.6	1512.1	1710.8	1919.0
17.5°	1400.4	1432.6	1451.5	1606.7	1877.3
20°	1375.9	1391.0	1408.1	1531.1	1830.1
22.5°	1358.8	1349.3	1362.6	1478.1	1765.7
25°	1347.5	1311.5	1326.7	1436.4	1690.0
27.5°	1357.0	1277.4	1283.1	1398.6	1610.5
30°	1358.8	1235.8	1237.7	1358.8	1521.6
32.5°	1345.6	1192.3	1194.1	1309.6	1421.2
35°	1313.4	1141.1	1139.3	1252.9	1285.0
37.5°	1269.9	1086.3	1086.3	1190.4	1135.5
40°	1216.9	1031.4	1037.1	1109.0	1003.0
42.5°	1152.5	972.8	980.3	1001.1	904.6
45°	1082.5	915.9	921.7	845.9	828.9
47.5°	1004.9	857.3	859.2	702.1	804.3
50°	912.2	796.8	789.2	601.8	802.4
52.5°	830.8	730.5	707.8	545.0	728.6
55°	751.3	660.5	611.3	501.5	675.7
57.5°	681.3	569.7	522.3	450.4	664.3
60°	616.9	480.7	444.7	395.6	609.4
62.5°	563.9	414.5	406.9	357.6	552.6
65°	507.2	369.0	367.1	325.5	469.4
67.5°	452.3	338.7	336.8	295.2	357.6
70°	393.7	306.6	302.8	263.1	264.9
72.5°	333.1	270.6	266.8	236.6	219.6
75°	272.6	229.0	227.1	206.3	177.9
77.5°	213.8	181.6	185.5	166.6	130.5
80°	153.3	132.5	136.3	119.2	98.4
82.5°	102.2	87.1	90.8	75.7	66.3
85°	56.8	49.2	51.1	39.7	30.3
87.5°	26.5	22.7	22.7	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°	95.8	54.0	49.5	31.6	13.8
97.5°	129.0	59.2	55.3	39.5	23.8
100°	141.1	63.7	60.2	45.8	31.6
102.5°	146.7	68.2	64.8	51.6	38.2
105°	150.8	74.8	71.9	60.6	49.4
107.5°	151.6	84.5	81.8	71.3	60.8
110°	150.4	90.0	87.6	78.1	68.6



TEST NUMBER: P934103

CATALOG NUMBER: SQ4-FA-025U-100D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	150.4	96.6	94.3	85.3	76.2
115°	151.8	106.5	104.4	96.1	87.7
117.5°	154.6	116.0	114.1	106.6	99.0
120°	157.0	121.7	119.9	112.8	105.6
122.5°	160.2	128.3	126.4	119.3	112.0
125°	164.7	136.8	135.1	128.5	122.0
127.5°	169.1	144.9	143.2	136.6	130.0
130°	172.4	150.3	148.5	141.4	134.3
132.5°	175.1	154.8	153.0	145.9	138.8
135°	177.9	160.0	158.3	151.8	145.4
137.5°	182.2	166.6	164.9	158.5	152.1
140°	184.9	171.0	169.5	163.6	157.7
142.5°	187.0	174.3	173.0	167.4	162.0
145°	189.9	179.3	178.1	173.3	168.6
147.5°	194.2	185.7	184.5	179.8	175.1
150°	196.3	189.0	187.9	183.6	179.4
152.5°	197.8	191.1	190.3	187.1	183.9
155°	200.9	195.9	195.3	192.9	190.5
157.5°	204.1	200.5	200.0	197.7	195.4
160°	205.5	202.7	202.3	200.5	198.7
162.5°	207.0	205.0	204.7	203.3	202.0
165°	209.2	208.3	208.0	206.8	205.6
167.5°	211.0	210.2	210.0	209.4	208.9
170°	212.4	212.3	212.2	211.6	211.1
172.5°	212.5	212.5	212.5	212.3	212.2
175°	213.3	213.8	213.8	213.8	213.8
177.5°	213.4	213.8	213.8	213.8	213.8
180°	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P934103
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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	17.75	18.54	18.70	19.90	19.36	20.58	21.37
	3H	16.38	17.46	17.05	18.14	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	21.54	21.22	22.24	23.08
	6H	16.72	17.66	17.43	18.37	19.22	20.83	21.77	21.54	22.48	23.33
	8H	16.73	17.63	17.45	18.36	19.21	20.91	21.81	21.63	22.54	23.39
	12H	16.71	17.57	17.44	18.29	19.17	20.96	21.81	21.69	22.54	23.42
4H	2H	16.95	17.96	17.65	18.66	19.50	19.15	20.17	19.85	20.87	21.70
	3H	18.01	18.85	18.72	19.59	20.44	20.69	21.53	21.40	22.27	23.12
	4H	18.30	19.06	19.02	19.80	20.69	21.23	22.00	21.95	22.73	23.62
	6H	18.44	19.11	19.19	19.87	20.76	21.61	22.28	22.36	23.04	23.93
	8H	18.45	19.08	19.20	19.84	20.74	21.72	22.35	22.47	23.11	24.01
	12H	18.44	19.00	19.21	19.78	20.69	21.80	22.35	22.57	23.14	24.05
8H	4H	18.78	19.40	19.53	20.16	21.06	21.38	22.00	22.13	22.76	23.67
	6H	19.05	19.57	19.83	20.37	21.28	21.83	22.34	22.61	23.15	24.05
	8H	19.10	19.56	19.89	20.36	21.28	21.98	22.44	22.77	23.24	24.17
	12H	19.10	19.50	19.89	20.29	21.28	22.09	22.50	22.89	23.29	24.27
12H	4H	18.80	19.36	19.57	20.14	21.05	21.36	21.92	22.13	22.70	23.61
	6H	19.11	19.57	19.91	20.38	21.30	21.83	22.29	22.62	23.09	24.01
	8H	19.20	19.60	19.99	20.40	21.38	22.00	22.41	22.80	23.20	24.18