

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: P934107

Luminaire Tested: SQ4-FA-025U-100D-B50-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934107
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-B50-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

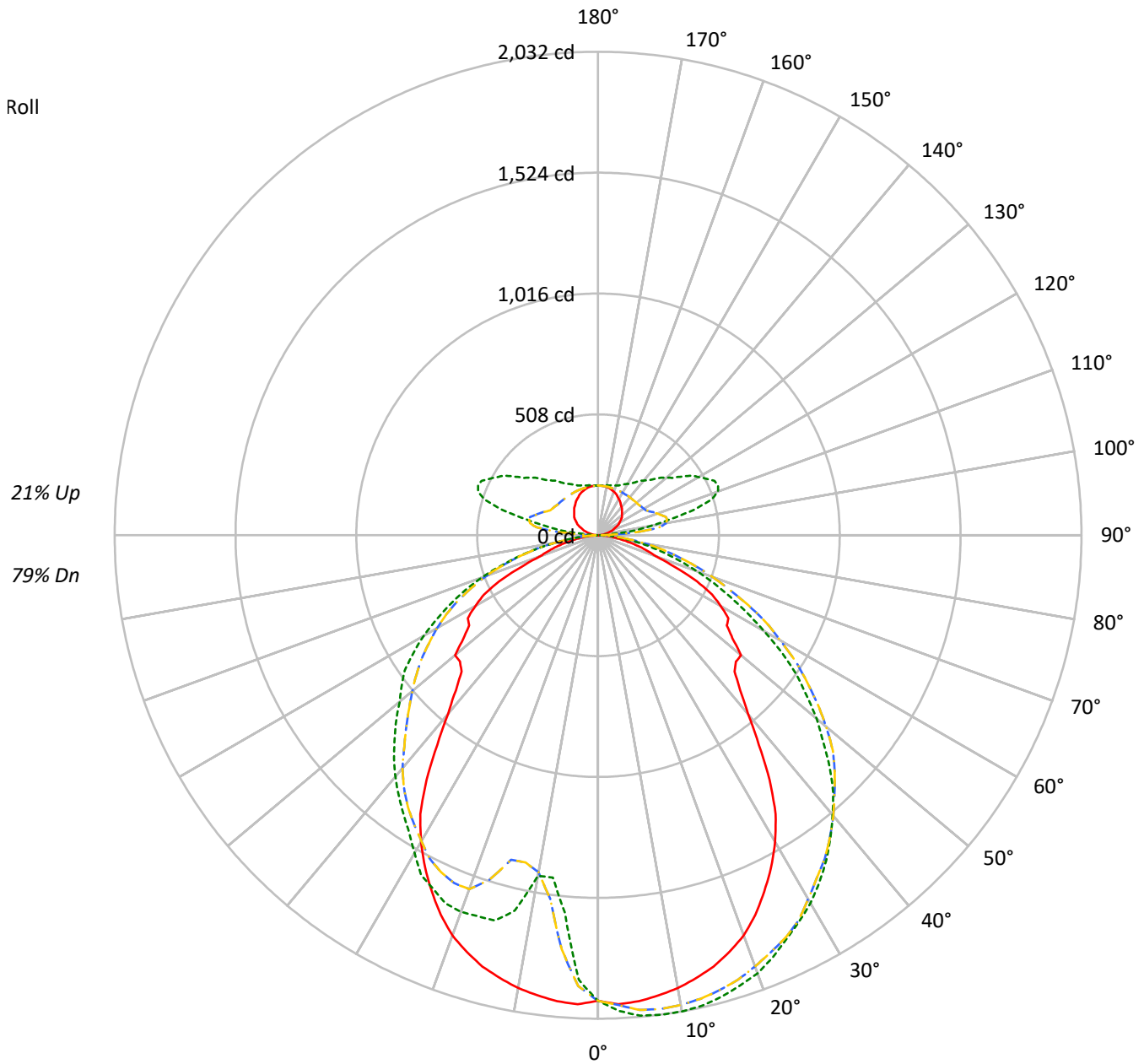
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6428.7 lumens
Efficiency: N/A
Efficacy: 110.5 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°	12103	12103	12103	12103
5°	12188	12217	12188	9606
10°	12103	12034	12103	8603
15°	11966	11773	11966	9831
20°	11712	11465	11712	9852
25°	11194	11014	11194	9643
30°	10528	10640	10528	9185
35°	9382	10167	9382	8681
40°	7813	9610	7813	8301
45°	6976	8958	6976	7862
50°	7405	8180	7405	7423
55°	6961	7343	6961	7169
60°	7167	6236	7167	6566
65°	6488	5155	6488	5763
70°	4481	4108	4481	4831
75°	3915	3037	3915	3637
80°	3131	2008	3131	2186
85°	1765	1064	1765	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	2.7
10°-20°	501.4	7.8
20°-30°	775.1	12.1
30°-40°	925.3	14.4
40°-50°	930.7	14.5
50°-60°	809.8	12.6
60°-70°	574.2	8.9
70°-80°	303.8	4.7
80°-90°	76.5	1.2
90°-100°	101.9	1.6
100°-110°	267.9	4.2
110°-120°	277.8	4.3
120°-130°	222.9	3.5
130°-140°	174.9	2.7
140°-150°	134.2	2.1
150°-160°	96.7	1.5
160°-170°	59.1	0.9
170°-180°	20.0	0.3
0°-30°	1453.1	22.6
0°-40°	2378.4	37.0
0°-60°	4118.9	64.1
0°-90°	5073.4	78.9
90°-120°	647.6	10.1
90°-150°	1179.6	18.3
90°-180°	1355.0	21.1
0°-180°	6428.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1956	1956	1956	1956	1956	
5°	1966	2027	1966	1594	1966	186
15°	1877	2008	1877	1677	1877	528
25°	1653	1873	1653	1640	1653	759
35°	1257	1671	1257	1427	1257	778
45°	811	1377	811	1209	811	649
55°	661	1016	661	992	661	607
65°	459	613	459	685	459	439
75°	174	291	174	348	174	183
85°	30	74	30	63	30	40
90°	1	5	1	5	1	2
95°	13	62	13	62	13	15
105°	48	420	48	420	48	51
115°	86	540	86	540	86	85
125°	119	430	119	430	119	106
135°	142	334	142	334	142	110
145°	165	271	165	271	165	103
155°	186	233	186	233	186	86
165°	201	217	201	217	201	57
175°	209	210	209	210	209	20
180°	209	209	209	209	209	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4
2.5°	1973.1	1973.1	1984.2	1987.8	1987.8	1982.3	1976.7	1982.3	1998.9	2004.6	2002.7
5°	1965.6	1980.5	2000.8	2004.6	2008.2	2006.3	2002.7	2006.3	2024.8	2028.6	2030.4
7.5°	1950.8	1978.6	2004.6	2010.1	2015.6	2010.1	2008.2	2011.9	2030.4	2034.2	2034.2
10°	1932.4	1971.2	2000.8	2004.6	2010.1	2004.6	2004.6	2011.9	2030.4	2034.2	2035.9
12.5°	1906.4	1960.1	1987.8	1991.6	1998.9	1997.1	1995.2	2002.7	2021.2	2024.8	2024.8
15°	1876.8	1939.7	1965.6	1969.3	1982.3	1978.6	1978.6	1986.0	2006.3	2011.9	2010.1
17.5°	1836.1	1913.8	1943.5	1949.0	1958.2	1956.4	1958.2	1965.6	1984.2	1987.8	1989.7
20°	1789.8	1878.6	1913.8	1919.4	1928.6	1928.6	1928.6	1937.9	1956.4	1963.8	1963.8
22.5°	1726.9	1841.7	1878.6	1882.4	1893.5	1893.5	1897.1	1910.1	1926.7	1928.6	1928.6
25°	1652.8	1800.9	1832.4	1843.4	1854.6	1860.2	1865.7	1873.1	1878.6	1876.8	1878.6
27.5°	1575.1	1749.1	1789.8	1797.2	1812.1	1817.6	1824.9	1826.8	1828.7	1834.2	1830.5
30°	1488.1	1676.9	1738.0	1745.4	1769.5	1773.1	1765.7	1769.5	1778.7	1782.4	1786.1
32.5°	1390.0	1569.6	1684.3	1701.0	1723.1	1712.0	1710.2	1715.8	1730.6	1730.6	1734.3
35°	1256.8	1486.3	1634.3	1649.2	1665.8	1652.8	1660.3	1662.1	1671.3	1676.9	1675.0
37.5°	1110.5	1414.1	1582.5	1593.6	1606.6	1589.9	1601.0	1606.6	1614.0	1610.3	1610.3
40°	981.0	1301.2	1521.4	1528.9	1540.0	1527.0	1538.1	1541.8	1545.5	1541.8	1540.0
42.5°	884.7	1177.1	1456.7	1465.9	1458.5	1467.8	1471.4	1478.9	1473.3	1465.9	1465.9
45°	810.7	1143.9	1386.3	1397.5	1386.3	1401.1	1406.7	1406.7	1390.0	1386.3	1384.5
47.5°	786.6	1077.2	1316.0	1316.0	1310.4	1328.9	1338.1	1325.3	1308.5	1303.0	1303.0
50°	784.7	1003.2	1219.7	1212.3	1238.2	1260.4	1251.2	1238.2	1225.3	1205.0	1205.0
52.5°	712.5	912.5	1095.7	1123.5	1164.2	1177.1	1162.4	1149.4	1127.2	1117.9	1110.5
55°	660.8	818.1	982.8	1038.3	1080.9	1097.5	1069.8	1056.8	1023.6	1018.0	1014.3
57.5°	649.7	681.2	879.2	949.5	1001.3	999.5	982.8	958.8	931.0	925.4	923.6
60°	596.0	492.3	768.1	851.4	905.0	899.5	884.7	862.5	836.6	832.9	829.2
62.5°	540.4	357.3	642.2	736.6	812.6	810.7	797.7	764.4	745.9	736.6	729.3
65°	459.1	299.8	457.2	612.6	721.9	725.5	697.8	673.7	653.3	642.2	640.4
67.5°	349.8	244.3	309.1	510.8	634.8	631.2	596.0	584.9	559.0	553.4	542.3
70°	259.1	162.9	214.7	414.6	549.8	540.4	512.7	499.8	475.7	462.7	455.3
72.5°	214.7	131.4	157.3	322.0	462.7	451.6	427.6	412.7	392.4	381.3	373.9
75°	174.0	138.8	120.3	238.7	375.7	368.4	346.1	331.3	314.7	299.8	301.7
77.5°	127.7	129.5	96.2	175.9	297.9	286.9	273.9	255.4	248.0	233.2	233.2
80°	96.2	101.8	72.2	120.3	214.7	214.7	203.6	190.6	177.6	170.3	170.3
82.5°	64.8	64.8	53.7	75.8	146.3	140.7	133.3	129.5	122.2	118.4	118.4
85°	29.6	37.0	33.3	46.2	79.6	83.3	83.3	79.6	77.7	74.1	75.8
87.5°	9.2	16.6	20.4	25.9	40.7	42.6	44.5	44.5	44.5	46.2	46.2
90°	1.4	2.5	3.6	3.9	6.2	9.2	10.6	9.4	7.1	5.3	5.3
92.5°	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.7	26.6	25.6
95°	13.4	30.9	48.4	52.8	93.7	148.2	175.5	156.6	118.8	90.5	87.3
97.5°	23.3	38.7	54.1	57.9	126.2	217.2	262.6	250.7	226.9	208.9	202.9
100°	30.9	44.8	58.8	62.3	138.0	239.0	289.4	290.3	292.1	293.4	286.1
102.5°	37.4	50.4	63.4	66.7	143.5	245.8	297.0	312.2	342.7	365.6	359.3
105°	48.3	59.3	70.3	73.1	147.5	246.6	296.2	330.3	398.5	449.7	446.4
107.5°	59.5	69.8	80.0	82.7	148.2	235.6	279.4	327.0	422.2	493.5	494.4
110°	67.1	76.4	85.6	88.0	147.1	225.9	265.3	318.6	425.0	504.7	508.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	74.5	83.4	92.2	94.4	147.1	217.4	252.6	307.0	415.9	497.5	502.9
115°	85.7	94.0	102.1	104.1	148.5	207.6	237.2	289.7	394.6	473.3	480.7
117.5°	96.9	104.2	111.6	113.5	151.2	201.6	226.8	274.1	368.7	439.7	447.9
120°	103.3	110.3	117.2	119.0	153.5	199.6	222.6	265.8	352.3	417.2	425.3
122.5°	109.6	116.7	123.7	125.4	156.7	198.5	219.3	258.3	336.1	394.6	402.6
125°	119.3	125.7	132.2	133.7	161.1	197.6	215.8	248.9	315.1	364.7	372.0
127.5°	127.1	133.6	140.1	141.7	165.4	197.1	212.9	241.3	298.1	340.7	346.9
130°	131.3	138.3	145.2	147.0	168.6	197.4	211.7	237.0	287.6	325.5	331.2
132.5°	135.7	142.7	149.6	151.4	171.2	197.6	210.8	233.4	278.7	312.6	317.7
135°	142.2	148.5	154.9	156.4	174.0	197.4	209.1	228.1	266.0	294.4	298.8
137.5°	148.8	155.0	161.3	162.9	178.2	198.7	208.8	224.9	256.9	280.9	284.5
140°	154.2	160.0	165.8	167.3	180.8	198.8	207.8	221.6	249.4	270.1	273.5
142.5°	158.4	163.7	169.1	170.5	182.9	199.5	207.8	220.0	244.3	262.5	265.4
145°	164.9	169.5	174.2	175.4	185.8	199.5	206.4	216.3	236.2	251.2	253.3
147.5°	171.3	175.9	180.4	181.6	189.9	200.9	206.4	214.3	229.9	241.6	243.4
150°	175.5	179.6	183.8	184.8	192.0	201.7	206.4	213.0	226.2	236.1	237.6
152.5°	179.9	183.0	186.1	186.9	193.4	202.1	206.4	212.0	223.3	231.8	232.9
155°	186.3	188.7	191.0	191.6	196.5	203.1	206.4	210.9	219.9	226.6	227.3
157.5°	191.1	193.3	195.6	196.1	199.6	204.2	206.4	209.9	216.9	222.1	222.7
160°	194.4	196.1	197.8	198.3	201.0	204.6	206.4	209.4	215.4	219.9	220.1
162.5°	197.5	198.8	200.2	200.5	202.5	205.1	206.4	208.9	214.0	217.8	218.1
165°	201.1	202.2	203.4	203.7	204.6	205.9	206.4	208.2	211.8	214.5	214.8
167.5°	204.3	204.8	205.4	205.6	206.3	207.3	207.8	209.0	211.4	213.1	213.2
170°	206.4	207.0	207.5	207.6	207.7	207.8	207.8	209.0	211.4	213.1	213.1
172.5°	207.5	207.6	207.8	207.8	207.8	207.8	207.8	208.7	210.6	212.0	211.9
175°	209.1	209.1	209.1	209.1	208.7	208.1	207.8	208.4	209.6	210.5	210.5
177.5°	209.1	209.1	209.1	209.1	208.7	208.3	208.1	208.6	209.5	210.2	210.2
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4
2.5°	2006.3	2000.8	2006.3	2002.7	2004.6	1998.9	1982.3	1976.7	1982.3	1987.8	1987.8
5°	2030.4	2026.7	2030.4	2030.4	2028.6	2024.8	2006.3	2002.7	2006.3	2008.2	2004.6
7.5°	2037.8	2032.3	2037.8	2034.2	2034.2	2030.4	2011.9	2008.2	2010.1	2015.6	2010.1
10°	2037.8	2032.3	2037.8	2035.9	2034.2	2030.4	2011.9	2004.6	2004.6	2010.1	2004.6
12.5°	2028.6	2024.8	2028.6	2024.8	2024.8	2021.2	2002.7	1995.2	1997.1	1998.9	1991.6
15°	2013.8	2008.2	2013.8	2010.1	2011.9	2006.3	1986.0	1978.6	1978.6	1982.3	1969.3
17.5°	1991.6	1984.2	1991.6	1989.7	1987.8	1984.2	1965.6	1958.2	1956.4	1958.2	1949.0
20°	1965.6	1960.1	1965.6	1963.8	1963.8	1956.4	1937.9	1928.6	1928.6	1928.6	1919.4
22.5°	1924.9	1919.4	1924.9	1928.6	1928.6	1926.7	1910.1	1897.1	1893.5	1893.5	1882.4
25°	1878.6	1873.1	1878.6	1878.6	1876.8	1878.6	1873.1	1865.7	1860.2	1854.6	1843.4
27.5°	1834.2	1830.5	1834.2	1830.5	1834.2	1828.7	1826.8	1824.9	1817.6	1812.1	1797.2
30°	1789.8	1786.1	1789.8	1786.1	1782.4	1778.7	1769.5	1765.7	1773.1	1769.5	1745.4
32.5°	1734.3	1730.6	1734.3	1734.3	1730.6	1730.6	1715.8	1710.2	1712.0	1723.1	1701.0
35°	1676.9	1671.3	1676.9	1675.0	1676.9	1671.3	1662.1	1660.3	1652.8	1665.8	1649.2
37.5°	1610.3	1604.7	1610.3	1610.3	1610.3	1614.0	1606.6	1601.0	1589.9	1606.6	1593.6
40°	1541.8	1534.4	1541.8	1540.0	1541.8	1545.5	1541.8	1538.1	1527.0	1540.0	1528.9
42.5°	1464.0	1462.2	1464.0	1465.9	1465.9	1473.3	1478.9	1471.4	1467.8	1458.5	1465.9
45°	1380.7	1377.1	1380.7	1384.5	1386.3	1390.0	1406.7	1406.7	1401.1	1386.3	1397.5
47.5°	1291.9	1282.7	1291.9	1303.0	1303.0	1308.5	1325.3	1338.1	1328.9	1310.4	1316.0
50°	1197.5	1199.3	1197.5	1205.0	1205.0	1225.3	1238.2	1251.2	1260.4	1238.2	1212.3
52.5°	1105.0	1103.1	1105.0	1110.5	1117.9	1127.2	1149.4	1162.4	1177.1	1164.2	1123.5
55°	1012.5	1016.1	1012.5	1014.3	1018.0	1023.6	1056.8	1069.8	1097.5	1080.9	1038.3
57.5°	919.9	914.3	919.9	923.6	925.4	931.0	958.8	982.8	999.5	1001.3	949.5
60°	812.6	805.1	812.6	829.2	832.9	836.6	862.5	884.7	899.5	905.0	851.4
62.5°	718.2	705.2	718.2	729.3	736.6	745.9	764.4	797.7	810.7	812.6	736.6
65°	618.2	612.6	618.2	640.4	642.2	653.3	673.7	697.8	725.5	721.9	612.6
67.5°	527.5	527.5	527.5	542.3	553.4	559.0	584.9	596.0	631.2	634.8	510.8
70°	444.2	442.3	444.2	455.3	462.7	475.7	499.8	512.7	540.4	549.8	414.6
72.5°	364.6	362.8	364.6	373.9	381.3	392.4	412.7	427.6	451.6	462.7	322.0
75°	294.3	290.6	294.3	301.7	299.8	314.7	331.3	346.1	368.4	375.7	238.7
77.5°	225.8	225.8	225.8	233.2	233.2	248.0	255.4	273.9	286.9	297.9	175.9
80°	168.4	166.6	168.4	170.3	170.3	177.6	190.6	203.6	214.7	214.7	120.3
82.5°	118.4	114.8	118.4	118.4	118.4	122.2	129.5	133.3	140.7	146.3	75.8
85°	74.1	74.1	74.1	75.8	74.1	77.7	79.6	83.3	83.3	79.6	46.2
87.5°	48.1	46.2	48.1	46.2	46.2	44.5	44.5	44.5	42.6	40.7	25.9
90°	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.6	9.2	6.2	3.9
92.5°	21.3	17.1	21.3	25.6	26.6	37.7	52.6	60.1	52.8	38.1	27.1
95°	74.4	61.6	74.4	87.3	90.5	118.8	156.6	175.5	148.2	93.7	52.8
97.5°	178.4	153.9	178.4	202.9	208.9	226.9	250.7	262.6	217.2	126.2	57.9
100°	257.0	227.9	257.0	286.1	293.4	292.1	290.3	289.4	239.0	138.0	62.3
102.5°	334.4	309.4	334.4	359.3	365.6	342.7	312.2	297.0	245.8	143.5	66.7
105°	433.0	419.6	433.0	446.4	449.7	398.5	330.3	296.2	246.6	147.5	73.1
107.5°	497.5	500.8	497.5	494.4	493.5	422.2	327.0	279.4	235.6	148.2	82.7
110°	522.2	536.2	522.2	508.2	504.7	425.0	318.6	265.3	225.9	147.1	88.0



TEST NUMBER: P934107

CATALOG NUMBER: SQ4-FA-025U-100D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	524.3	545.8	524.3	502.9	497.5	415.9	307.0	252.6	217.4	147.1	94.4
115°	510.4	540.2	510.4	480.7	473.3	394.6	289.7	237.2	207.6	148.5	104.1
117.5°	481.0	514.0	481.0	447.9	439.7	368.7	274.1	226.8	201.6	151.2	113.5
120°	457.3	489.3	457.3	425.3	417.2	352.3	265.8	222.6	199.6	153.5	119.0
122.5°	434.1	465.7	434.1	402.6	394.6	336.1	258.3	219.3	198.5	156.7	125.4
125°	401.1	430.2	401.1	372.0	364.7	315.1	248.9	215.8	197.6	161.1	133.7
127.5°	371.5	396.0	371.5	346.9	340.7	298.1	241.3	212.9	197.1	165.4	141.7
130°	353.9	376.6	353.9	331.2	325.5	287.6	237.0	211.7	197.4	168.6	147.0
132.5°	338.0	358.4	338.0	317.7	312.6	278.7	233.4	210.8	197.6	171.2	151.4
135°	316.3	333.8	316.3	298.8	294.4	266.0	228.1	209.1	197.4	174.0	156.4
137.5°	298.9	313.2	298.9	284.5	280.9	256.9	224.9	208.8	198.7	178.2	162.9
140°	286.8	300.3	286.8	273.5	270.1	249.4	221.6	207.8	198.8	180.8	167.3
142.5°	276.9	288.5	276.9	265.4	262.5	244.3	220.0	207.8	199.5	182.9	170.5
145°	262.1	270.9	262.1	253.3	251.2	236.2	216.3	206.4	199.5	185.8	175.4
147.5°	250.7	257.9	250.7	243.4	241.6	229.9	214.3	206.4	200.9	189.9	181.6
150°	243.5	249.4	243.5	237.6	236.1	226.2	213.0	206.4	201.7	192.0	184.8
152.5°	237.3	241.8	237.3	232.9	231.8	223.3	212.0	206.4	202.1	193.4	186.9
155°	230.2	233.2	230.2	227.3	226.6	219.9	210.9	206.4	203.1	196.5	191.6
157.5°	224.7	226.8	224.7	222.7	222.1	216.9	209.9	206.4	204.2	199.6	196.1
160°	221.4	222.6	221.4	220.1	219.9	215.4	209.4	206.4	204.6	201.0	198.3
162.5°	219.2	220.3	219.2	218.1	217.8	214.0	208.9	206.4	205.1	202.5	200.5
165°	216.0	217.2	216.0	214.8	214.5	211.8	208.2	206.4	205.9	204.6	203.7
167.5°	213.8	214.3	213.8	213.2	213.1	211.4	209.0	207.8	207.3	206.3	205.6
170°	213.1	213.1	213.1	213.1	213.1	211.4	209.0	207.8	207.8	207.7	207.6
172.5°	211.5	211.1	211.5	211.9	212.0	210.6	208.7	207.8	207.8	207.8	207.8
175°	210.5	210.5	210.5	210.5	210.5	209.6	208.4	207.8	208.1	208.7	209.1
177.5°	209.6	209.1	209.6	210.2	210.2	209.5	208.6	208.1	208.3	208.7	209.1
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



TEST NUMBER: P934107

CATALOG NUMBER: SQ4-FA-025U-100D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4
2.5°	1984.2	1973.1	1973.1	1954.5	1947.1	1941.6	1932.4	1904.5	1897.1	1889.8	1900.9
5°	2000.8	1980.5	1965.6	1932.4	1904.5	1893.5	1858.3	1791.7	1747.2	1713.9	1695.4
7.5°	2004.6	1978.6	1950.8	1899.0	1832.4	1802.7	1695.4	1573.2	1540.0	1510.3	1491.8
10°	2000.8	1971.2	1932.4	1854.6	1697.3	1645.4	1538.1	1458.5	1438.2	1432.6	1438.2
12.5°	1987.8	1960.1	1906.4	1776.8	1556.6	1521.4	1458.5	1412.2	1408.6	1417.8	1467.8
15°	1965.6	1939.7	1876.8	1673.2	1478.9	1452.9	1408.6	1391.8	1412.2	1477.0	1626.9
17.5°	1943.5	1913.8	1836.1	1571.4	1419.6	1401.1	1369.6	1403.0	1517.8	1604.7	1654.7
20°	1913.8	1878.6	1789.8	1497.4	1377.1	1360.4	1345.6	1495.5	1582.5	1614.0	1641.7
22.5°	1878.6	1841.7	1726.9	1445.6	1332.6	1319.6	1328.9	1547.4	1582.5	1604.7	1628.8
25°	1832.4	1800.9	1652.8	1404.8	1297.5	1282.7	1317.9	1541.8	1562.1	1567.7	1615.8
27.5°	1789.8	1749.1	1575.1	1367.8	1254.9	1249.3	1327.1	1517.8	1532.5	1538.1	1589.9
30°	1738.0	1676.9	1488.1	1328.9	1210.5	1208.6	1328.9	1488.1	1484.4	1499.3	1551.0
32.5°	1684.3	1569.6	1390.0	1280.8	1167.9	1166.1	1316.0	1443.7	1439.9	1460.3	1499.3
35°	1634.3	1486.3	1256.8	1225.3	1114.3	1116.0	1284.5	1391.8	1393.7	1412.2	1436.3
37.5°	1582.5	1414.1	1110.5	1164.2	1062.4	1062.4	1241.9	1343.7	1340.0	1345.6	1378.9
40°	1521.4	1301.2	981.0	1084.7	1014.3	1008.7	1190.1	1291.9	1278.9	1277.2	1323.4
42.5°	1456.7	1177.1	884.7	979.1	958.8	951.4	1127.2	1229.0	1205.0	1210.5	1269.7
45°	1386.3	1143.9	810.7	827.3	901.4	895.8	1058.7	1156.8	1140.1	1155.0	1216.1
47.5°	1316.0	1077.2	786.6	686.7	840.3	838.5	982.8	1086.4	1077.2	1092.0	1156.8
50°	1219.7	1003.2	784.7	588.6	771.9	779.2	892.2	1018.0	1018.0	1030.9	1099.4
52.5°	1095.7	912.5	712.5	533.0	692.2	714.4	812.6	958.8	962.5	975.4	1036.5
55°	982.8	818.1	660.8	490.4	597.9	646.0	734.8	897.7	905.0	918.0	973.6
57.5°	879.2	681.2	649.7	440.5	510.8	557.1	666.3	838.5	842.2	853.3	906.9
60°	768.1	492.3	596.0	386.9	435.0	470.1	603.4	768.1	781.1	788.5	834.7
62.5°	642.2	357.3	540.4	349.8	398.0	405.4	551.5	701.5	718.2	723.7	751.5
65°	457.2	299.8	459.1	318.3	359.0	360.9	496.0	633.0	647.8	657.1	677.4
67.5°	309.1	244.3	349.8	288.7	329.4	331.3	442.3	553.4	573.8	581.1	594.1
70°	214.7	162.9	259.1	257.3	296.2	299.8	385.0	481.2	499.8	505.3	512.7
72.5°	157.3	131.4	214.7	231.4	261.0	264.7	325.8	399.8	418.3	423.8	427.6
75°	120.3	138.8	174.0	201.7	222.1	224.0	266.6	325.8	338.7	342.4	344.3
77.5°	96.2	129.5	127.7	162.9	181.4	177.6	209.1	251.7	262.8	262.8	262.8
80°	72.2	101.8	96.2	116.6	133.3	129.5	149.9	179.5	183.3	186.9	185.1
82.5°	53.7	64.8	64.8	74.1	88.8	85.2	99.9	116.6	116.6	116.6	120.3
85°	33.3	37.0	29.6	38.9	50.0	48.1	55.6	63.0	64.8	64.8	61.1
87.5°	20.4	16.6	9.2	14.9	22.2	22.2	25.9	27.7	25.9	25.9	25.9
90°	3.6	2.5	1.4	2.5	3.6	3.9	6.2	9.2	10.6	9.4	7.1
92.5°	24.7	15.1	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.7
95°	48.4	30.9	13.4	30.9	48.4	52.8	93.7	148.2	175.5	156.6	118.8
97.5°	54.1	38.7	23.3	38.7	54.1	57.9	126.2	217.2	262.6	250.7	226.9
100°	58.8	44.8	30.9	44.8	58.8	62.3	138.0	239.0	289.4	290.3	292.1
102.5°	63.4	50.4	37.4	50.4	63.4	66.7	143.5	245.8	297.0	312.2	342.7
105°	70.3	59.3	48.3	59.3	70.3	73.1	147.5	246.6	296.2	330.3	398.5
107.5°	80.0	69.8	59.5	69.8	80.0	82.7	148.2	235.6	279.4	327.0	422.2
110°	85.6	76.4	67.1	76.4	85.6	88.0	147.1	225.9	265.3	318.6	425.0



TEST NUMBER: P934107

CATALOG NUMBER: SQ4-FA-025U-100D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	92.2	83.4	74.5	83.4	92.2	94.4	147.1	217.4	252.6	307.0	415.9
115°	102.1	94.0	85.7	94.0	102.1	104.1	148.5	207.6	237.2	289.7	394.6
117.5°	111.6	104.2	96.9	104.2	111.6	113.5	151.2	201.6	226.8	274.1	368.7
120°	117.2	110.3	103.3	110.3	117.2	119.0	153.5	199.6	222.6	265.8	352.3
122.5°	123.7	116.7	109.6	116.7	123.7	125.4	156.7	198.5	219.3	258.3	336.1
125°	132.2	125.7	119.3	125.7	132.2	133.7	161.1	197.6	215.8	248.9	315.1
127.5°	140.1	133.6	127.1	133.6	140.1	141.7	165.4	197.1	212.9	241.3	298.1
130°	145.2	138.3	131.3	138.3	145.2	147.0	168.6	197.4	211.7	237.0	287.6
132.5°	149.6	142.7	135.7	142.7	149.6	151.4	171.2	197.6	210.8	233.4	278.7
135°	154.9	148.5	142.2	148.5	154.9	156.4	174.0	197.4	209.1	228.1	266.0
137.5°	161.3	155.0	148.8	155.0	161.3	162.9	178.2	198.7	208.8	224.9	256.9
140°	165.8	160.0	154.2	160.0	165.8	167.3	180.8	198.8	207.8	221.6	249.4
142.5°	169.1	163.7	158.4	163.7	169.1	170.5	182.9	199.5	207.8	220.0	244.3
145°	174.2	169.5	164.9	169.5	174.2	175.4	185.8	199.5	206.4	216.3	236.2
147.5°	180.4	175.9	171.3	175.9	180.4	181.6	189.9	200.9	206.4	214.3	229.9
150°	183.8	179.6	175.5	179.6	183.8	184.8	192.0	201.7	206.4	213.0	226.2
152.5°	186.1	183.0	179.9	183.0	186.1	186.9	193.4	202.1	206.4	212.0	223.3
155°	191.0	188.7	186.3	188.7	191.0	191.6	196.5	203.1	206.4	210.9	219.9
157.5°	195.6	193.3	191.1	193.3	195.6	196.1	199.6	204.2	206.4	209.9	216.9
160°	197.8	196.1	194.4	196.1	197.8	198.3	201.0	204.6	206.4	209.4	215.4
162.5°	200.2	198.8	197.5	198.8	200.2	200.5	202.5	205.1	206.4	208.9	214.0
165°	203.4	202.2	201.1	202.2	203.4	203.7	204.6	205.9	206.4	208.2	211.8
167.5°	205.4	204.8	204.3	204.8	205.4	205.6	206.3	207.3	207.8	209.0	211.4
170°	207.5	207.0	206.4	207.0	207.5	207.6	207.7	207.8	207.8	209.0	211.4
172.5°	207.8	207.6	207.5	207.6	207.8	207.8	207.8	207.8	207.8	208.7	210.6
175°	209.1	209.1	209.1	209.1	209.1	209.1	208.7	208.1	207.8	208.4	209.6
177.5°	209.1	209.1	209.1	209.1	209.1	209.1	208.7	208.3	208.1	208.6	209.5
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



TEST NUMBER: P934107

CATALOG NUMBER: SQ4-FA-025U-100D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4	1956.4
2.5°	1887.9	1882.4	1889.8	1869.4	1889.8	1882.4	1887.9	1900.9	1889.8	1897.1	1904.5
5°	1656.5	1647.3	1617.7	1593.6	1617.7	1647.3	1656.5	1695.4	1713.9	1747.2	1791.7
7.5°	1480.7	1473.3	1465.9	1451.1	1465.9	1473.3	1480.7	1491.8	1510.3	1540.0	1573.2
10°	1441.8	1443.7	1454.8	1452.9	1454.8	1443.7	1441.8	1438.2	1432.6	1438.2	1458.5
12.5°	1541.8	1558.5	1619.6	1615.8	1619.6	1558.5	1541.8	1467.8	1417.8	1408.6	1412.2
15°	1656.5	1662.1	1675.0	1676.9	1675.0	1662.1	1656.5	1626.9	1477.0	1412.2	1391.8
17.5°	1667.7	1669.5	1678.8	1678.8	1678.8	1669.5	1667.7	1654.7	1604.7	1517.8	1403.0
20°	1658.4	1662.1	1680.6	1684.3	1680.6	1662.1	1658.4	1641.7	1614.0	1582.5	1495.5
22.5°	1654.7	1662.1	1676.9	1675.0	1676.9	1662.1	1654.7	1628.8	1604.7	1582.5	1547.4
25°	1636.2	1636.2	1638.0	1639.9	1638.0	1636.2	1636.2	1615.8	1567.7	1562.1	1541.8
27.5°	1597.3	1601.0	1612.1	1610.3	1612.1	1601.0	1597.3	1589.9	1538.1	1532.5	1517.8
30°	1562.1	1558.5	1549.2	1541.8	1549.2	1558.5	1562.1	1551.0	1499.3	1484.4	1488.1
32.5°	1502.9	1493.7	1484.4	1478.9	1484.4	1493.7	1502.9	1499.3	1460.3	1439.9	1443.7
35°	1432.6	1434.4	1432.6	1427.1	1432.6	1434.4	1432.6	1436.3	1412.2	1393.7	1391.8
37.5°	1382.6	1386.3	1384.5	1377.1	1384.5	1386.3	1382.6	1378.9	1345.6	1340.0	1343.7
40°	1330.8	1332.6	1330.8	1325.3	1330.8	1332.6	1330.8	1323.4	1277.2	1278.9	1291.9
42.5°	1280.8	1278.9	1273.4	1269.7	1273.4	1278.9	1280.8	1269.7	1210.5	1205.0	1229.0
45°	1223.4	1225.3	1214.2	1208.6	1214.2	1225.3	1223.4	1216.1	1155.0	1140.1	1156.8
47.5°	1166.1	1166.1	1156.8	1151.2	1156.8	1166.1	1166.1	1156.8	1092.0	1077.2	1086.4
50°	1105.0	1103.1	1090.2	1088.3	1090.2	1103.1	1105.0	1099.4	1030.9	1018.0	1018.0
52.5°	1034.7	1034.7	1036.5	1040.2	1036.5	1034.7	1034.7	1036.5	975.4	962.5	958.8
55°	973.6	975.4	988.4	992.1	988.4	975.4	973.6	973.6	918.0	905.0	897.7
57.5°	910.6	910.6	919.9	919.9	919.9	910.6	910.6	906.9	853.3	842.2	838.5
60°	838.5	842.2	849.6	847.7	849.6	842.2	838.5	834.7	788.5	781.1	768.1
62.5°	762.5	766.3	768.1	764.4	768.1	766.3	762.5	751.5	723.7	718.2	701.5
65°	682.9	686.7	688.5	684.8	688.5	686.7	682.9	677.4	657.1	647.8	633.0
67.5°	601.5	599.7	597.9	605.2	597.9	599.7	601.5	594.1	581.1	573.8	553.4
70°	518.3	518.3	516.4	520.1	516.4	518.3	518.3	512.7	505.3	499.8	481.2
72.5°	429.4	427.6	435.0	429.4	435.0	427.6	429.4	427.6	423.8	418.3	399.8
75°	342.4	346.1	342.4	348.0	342.4	346.1	342.4	344.3	342.4	338.7	325.8
77.5°	261.0	264.7	261.0	261.0	261.0	264.7	261.0	262.8	262.8	262.8	251.7
80°	185.1	183.3	183.3	181.4	183.3	183.3	185.1	185.1	186.9	183.3	179.5
82.5°	118.4	116.6	116.6	120.3	116.6	116.6	118.4	120.3	116.6	116.6	116.6
85°	64.8	66.6	63.0	63.0	63.0	66.6	64.8	61.1	64.8	64.8	63.0
87.5°	24.1	22.2	22.2	22.2	22.2	22.2	24.1	25.9	25.9	25.9	27.7
90°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.1	9.4	10.6	9.2
92.5°	26.6	25.6	21.3	17.1	21.3	25.6	26.6	37.7	52.6	60.1	52.8
95°	90.5	87.3	74.4	61.6	74.4	87.3	90.5	118.8	156.6	175.5	148.2
97.5°	208.9	202.9	178.4	153.9	178.4	202.9	208.9	226.9	250.7	262.6	217.2
100°	293.4	286.1	257.0	227.9	257.0	286.1	293.4	292.1	290.3	289.4	239.0
102.5°	365.6	359.3	334.4	309.4	334.4	359.3	365.6	342.7	312.2	297.0	245.8
105°	449.7	446.4	433.0	419.6	433.0	446.4	449.7	398.5	330.3	296.2	246.6
107.5°	493.5	494.4	497.5	500.8	497.5	494.4	493.5	422.2	327.0	279.4	235.6
110°	504.7	508.2	522.2	536.2	522.2	508.2	504.7	425.0	318.6	265.3	225.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	497.5	502.9	524.3	545.8	524.3	502.9	497.5	415.9	307.0	252.6	217.4
115°	473.3	480.7	510.4	540.2	510.4	480.7	473.3	394.6	289.7	237.2	207.6
117.5°	439.7	447.9	481.0	514.0	481.0	447.9	439.7	368.7	274.1	226.8	201.6
120°	417.2	425.3	457.3	489.3	457.3	425.3	417.2	352.3	265.8	222.6	199.6
122.5°	394.6	402.6	434.1	465.7	434.1	402.6	394.6	336.1	258.3	219.3	198.5
125°	364.7	372.0	401.1	430.2	401.1	372.0	364.7	315.1	248.9	215.8	197.6
127.5°	340.7	346.9	371.5	396.0	371.5	346.9	340.7	298.1	241.3	212.9	197.1
130°	325.5	331.2	353.9	376.6	353.9	331.2	325.5	287.6	237.0	211.7	197.4
132.5°	312.6	317.7	338.0	358.4	338.0	317.7	312.6	278.7	233.4	210.8	197.6
135°	294.4	298.8	316.3	333.8	316.3	298.8	294.4	266.0	228.1	209.1	197.4
137.5°	280.9	284.5	298.9	313.2	298.9	284.5	280.9	256.9	224.9	208.8	198.7
140°	270.1	273.5	286.8	300.3	286.8	273.5	270.1	249.4	221.6	207.8	198.8
142.5°	262.5	265.4	276.9	288.5	276.9	265.4	262.5	244.3	220.0	207.8	199.5
145°	251.2	253.3	262.1	270.9	262.1	253.3	251.2	236.2	216.3	206.4	199.5
147.5°	241.6	243.4	250.7	257.9	250.7	243.4	241.6	229.9	214.3	206.4	200.9
150°	236.1	237.6	243.5	249.4	243.5	237.6	236.1	226.2	213.0	206.4	201.7
152.5°	231.8	232.9	237.3	241.8	237.3	232.9	231.8	223.3	212.0	206.4	202.1
155°	226.6	227.3	230.2	233.2	230.2	227.3	226.6	219.9	210.9	206.4	203.1
157.5°	222.1	222.7	224.7	226.8	224.7	222.7	222.1	216.9	209.9	206.4	204.2
160°	219.9	220.1	221.4	222.6	221.4	220.1	219.9	215.4	209.4	206.4	204.6
162.5°	217.8	218.1	219.2	220.3	219.2	218.1	217.8	214.0	208.9	206.4	205.1
165°	214.5	214.8	216.0	217.2	216.0	214.8	214.5	211.8	208.2	206.4	205.9
167.5°	213.1	213.2	213.8	214.3	213.8	213.2	213.1	211.4	209.0	207.8	207.3
170°	213.1	213.1	213.1	213.1	213.1	213.1	213.1	211.4	209.0	207.8	207.8
172.5°	212.0	211.9	211.5	211.1	211.5	211.9	212.0	210.6	208.7	207.8	207.8
175°	210.5	210.5	210.5	210.5	210.5	210.5	210.5	209.6	208.4	207.8	208.1
177.5°	210.2	210.2	209.6	209.1	209.6	210.2	210.2	209.5	208.6	208.1	208.3
180°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1956.4	1956.4	1956.4	1956.4	1956.4
2.5°	1932.4	1941.6	1947.1	1954.5	1973.1
5°	1858.3	1893.5	1904.5	1932.4	1965.6
7.5°	1695.4	1802.7	1832.4	1899.0	1950.8
10°	1538.1	1645.4	1697.3	1854.6	1932.4
12.5°	1458.5	1521.4	1556.6	1776.8	1906.4
15°	1408.6	1452.9	1478.9	1673.2	1876.8
17.5°	1369.6	1401.1	1419.6	1571.4	1836.1
20°	1345.6	1360.4	1377.1	1497.4	1789.8
22.5°	1328.9	1319.6	1332.6	1445.6	1726.9
25°	1317.9	1282.7	1297.5	1404.8	1652.8
27.5°	1327.1	1249.3	1254.9	1367.8	1575.1
30°	1328.9	1208.6	1210.5	1328.9	1488.1
32.5°	1316.0	1166.1	1167.9	1280.8	1390.0
35°	1284.5	1116.0	1114.3	1225.3	1256.8
37.5°	1241.9	1062.4	1062.4	1164.2	1110.5
40°	1190.1	1008.7	1014.3	1084.7	981.0
42.5°	1127.2	951.4	958.8	979.1	884.7
45°	1058.7	895.8	901.4	827.3	810.7
47.5°	982.8	838.5	840.3	686.7	786.6
50°	892.2	779.2	771.9	588.6	784.7
52.5°	812.6	714.4	692.2	533.0	712.5
55°	734.8	646.0	597.9	490.4	660.8
57.5°	666.3	557.1	510.8	440.5	649.7
60°	603.4	470.1	435.0	386.9	596.0
62.5°	551.5	405.4	398.0	349.8	540.4
65°	496.0	360.9	359.0	318.3	459.1
67.5°	442.3	331.3	329.4	288.7	349.8
70°	385.0	299.8	296.2	257.3	259.1
72.5°	325.8	264.7	261.0	231.4	214.7
75°	266.6	224.0	222.1	201.7	174.0
77.5°	209.1	177.6	181.4	162.9	127.7
80°	149.9	129.5	133.3	116.6	96.2
82.5°	99.9	85.2	88.8	74.1	64.8
85°	55.6	48.1	50.0	38.9	29.6
87.5°	25.9	22.2	22.2	14.9	9.2
90°	6.2	3.9	3.6	2.5	1.4
92.5°	38.1	27.1	24.7	15.1	5.6
95°	93.7	52.8	48.4	30.9	13.4
97.5°	126.2	57.9	54.1	38.7	23.3
100°	138.0	62.3	58.8	44.8	30.9
102.5°	143.5	66.7	63.4	50.4	37.4
105°	147.5	73.1	70.3	59.3	48.3
107.5°	148.2	82.7	80.0	69.8	59.5
110°	147.1	88.0	85.6	76.4	67.1



TEST NUMBER: P934107

CATALOG NUMBER: SQ4-FA-025U-100D-B50-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	147.1	94.4	92.2	83.4	74.5
115°	148.5	104.1	102.1	94.0	85.7
117.5°	151.2	113.5	111.6	104.2	96.9
120°	153.5	119.0	117.2	110.3	103.3
122.5°	156.7	125.4	123.7	116.7	109.6
125°	161.1	133.7	132.2	125.7	119.3
127.5°	165.4	141.7	140.1	133.6	127.1
130°	168.6	147.0	145.2	138.3	131.3
132.5°	171.2	151.4	149.6	142.7	135.7
135°	174.0	156.4	154.9	148.5	142.2
137.5°	178.2	162.9	161.3	155.0	148.8
140°	180.8	167.3	165.8	160.0	154.2
142.5°	182.9	170.5	169.1	163.7	158.4
145°	185.8	175.4	174.2	169.5	164.9
147.5°	189.9	181.6	180.4	175.9	171.3
150°	192.0	184.8	183.8	179.6	175.5
152.5°	193.4	186.9	186.1	183.0	179.9
155°	196.5	191.6	191.0	188.7	186.3
157.5°	199.6	196.1	195.6	193.3	191.1
160°	201.0	198.3	197.8	196.1	194.4
162.5°	202.5	200.5	200.2	198.8	197.5
165°	204.6	203.7	203.4	202.2	201.1
167.5°	206.3	205.6	205.4	204.8	204.3
170°	207.7	207.6	207.5	207.0	206.4
172.5°	207.8	207.8	207.8	207.6	207.5
175°	208.7	209.1	209.1	209.1	209.1
177.5°	208.7	209.1	209.1	209.1	209.1
180°	209.1	209.1	209.1	209.1	209.1



TEST NUMBER: P934107
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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	15.80	17.00	16.46	17.68	18.46	18.62	19.82	19.29	20.50	21.29
	3H	16.30	17.38	16.98	18.07	18.89	19.99	21.07	20.67	21.76	22.58
	4H	16.51	17.52	17.20	18.22	19.06	20.45	21.47	21.15	22.17	23.00
	6H	16.64	17.58	17.35	18.29	19.14	20.75	21.69	21.46	22.40	23.25
	8H	16.66	17.55	17.37	18.28	19.13	20.84	21.73	21.55	22.46	23.31
	12H	16.64	17.49	17.36	18.21	19.09	20.88	21.74	21.61	22.46	23.34
4H	2H	16.87	17.89	17.57	18.59	19.42	19.07	20.09	19.77	20.79	21.62
	3H	17.93	18.78	18.64	19.51	20.37	20.61	21.46	21.32	22.19	23.05
	4H	18.22	18.99	18.95	19.73	20.61	21.15	21.92	21.88	22.66	23.54
	6H	18.36	19.03	19.11	19.79	20.69	21.53	22.20	22.28	22.96	23.85
	8H	18.38	19.00	19.13	19.76	20.66	21.65	22.27	22.40	23.03	23.93
	12H	18.36	18.92	19.13	19.70	20.61	21.72	22.28	22.49	23.06	23.97
8H	4H	18.70	19.32	19.45	20.08	20.99	21.30	21.92	22.05	22.68	23.59
	6H	18.97	19.49	19.75	20.29	21.20	21.75	22.27	22.53	23.07	23.97
	8H	19.02	19.48	19.81	20.28	21.20	21.90	22.36	22.70	23.17	24.09
	12H	19.02	19.42	19.81	20.22	21.20	22.02	22.42	22.81	23.21	24.20
12H	4H	18.72	19.28	19.49	20.06	20.97	21.28	21.84	22.05	22.63	23.53
	6H	19.04	19.50	19.83	20.30	21.22	21.75	22.21	22.54	23.01	23.93
	8H	19.12	19.52	19.91	20.32	21.30	21.93	22.33	22.72	23.12	24.10