

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: P933905

Luminaire Tested: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933905
REPORT IS A COMBINATION OF REPORTS P933673 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

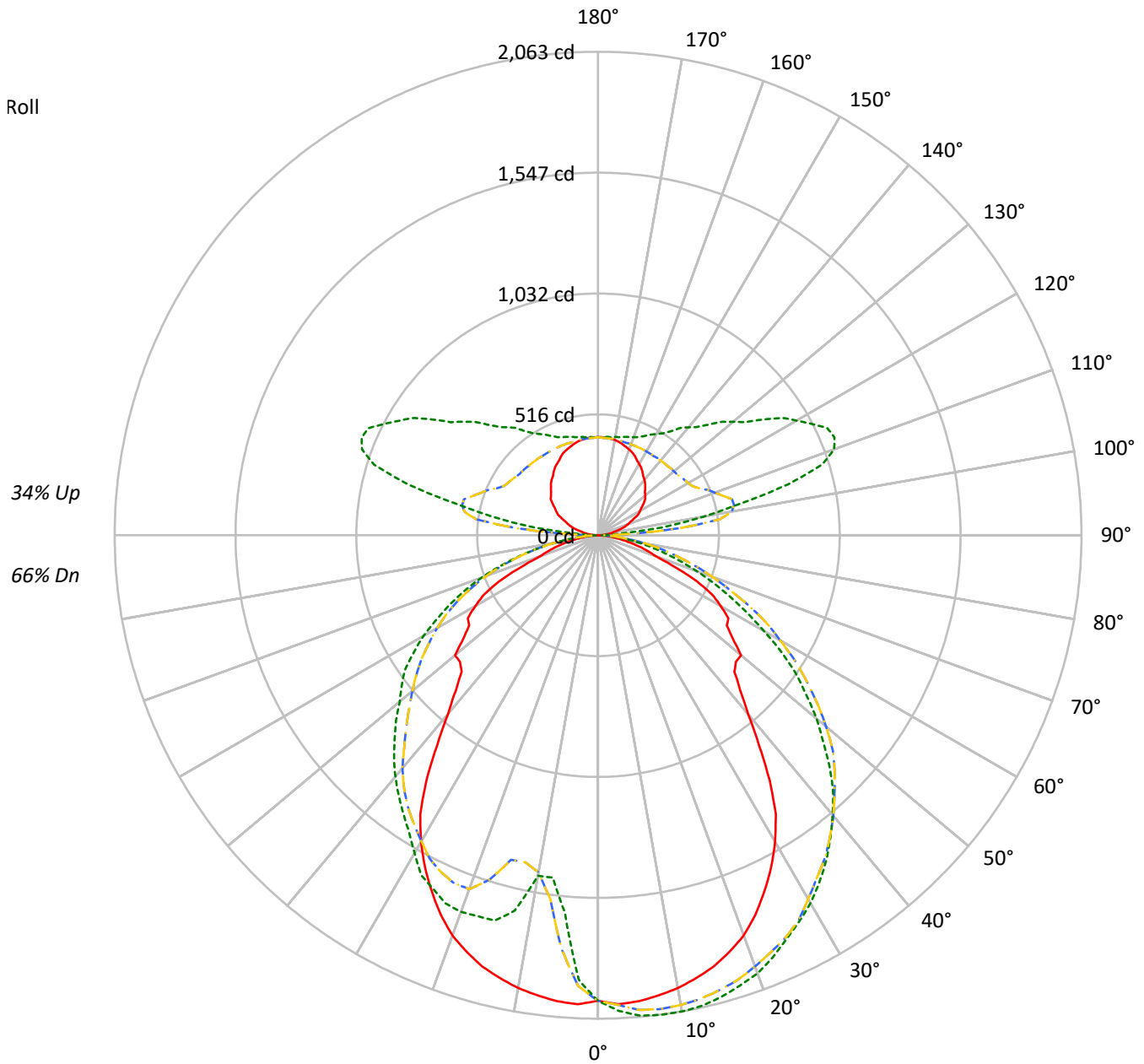
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7862.4 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 66
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	70	70	70	66
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	60	60	60	55
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	50	50	50	46
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	43	43	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	37	37	37	34
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	32	32	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	28	28	28	26
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	25	25	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	20	20	20	18
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6143	6143	6143	6143
5°	6192	6202	6192	4877
10°	6153	6109	6153	4368
15°	6088	5977	6088	4991
20°	5963	5820	5963	5001
25°	5705	5591	5705	4895
30°	5370	5401	5370	4663
35°	4790	5161	4790	4407
40°	3993	4878	3993	4214
45°	3570	4548	3570	3991
50°	3796	4153	3796	3768
55°	3575	3728	3575	3639
60°	3690	3166	3690	3333
65°	3351	2617	3351	2925
70°	2326	2086	2326	2452
75°	2047	1542	2047	1846
80°	1662	1019	1662	1110
85°	975	540	975	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5469 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	2.3
10°-20°	509.1	6.5
20°-30°	786.9	10.0
30°-40°	939.4	11.9
40°-50°	944.9	12.0
50°-60°	822.2	10.5
60°-70°	583.0	7.4
70°-80°	308.4	3.9
80°-90°	78.4	1.0
90°-100°	203.8	2.6
100°-110°	535.9	6.8
110°-120°	555.7	7.1
120°-130°	445.7	5.7
130°-140°	349.7	4.4
140°-150°	268.4	3.4
150°-160°	193.3	2.5
160°-170°	118.3	1.5
170°-180°	40.0	0.5
0°-30°	1475.3	18.8
0°-40°	2414.7	30.7
0°-60°	4181.9	53.2
0°-90°	5151.7	65.5
90°-120°	1295.4	16.5
90°-150°	2359.2	30.0
90°-180°	2711.0	34.5
0°-180°	7862.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1986	1986	1986	1986	1986	
5°	1996	2058	1996	1618	1996	189
15°	1906	2039	1906	1702	1906	536
25°	1678	1902	1678	1665	1678	771
35°	1276	1697	1276	1449	1276	789
45°	823	1398	823	1227	823	659
55°	671	1032	671	1007	671	616
65°	466	622	466	695	466	445
75°	177	295	177	353	177	186
85°	30	75	30	64	30	41
90°	3	11	3	11	3	4
95°	27	123	27	123	27	30
105°	97	839	97	839	97	102
115°	172	1080	172	1080	172	169
125°	238	860	238	860	238	212
135°	284	668	284	668	284	220
145°	330	542	330	542	330	207
155°	373	466	373	466	373	171
165°	402	434	402	434	402	114
175°	418	421	418	421	418	40
180°	418	418	418	418	418	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2
2.5°	2003.1	2003.1	2014.5	2018.2	2018.2	2012.6	2007.0	2012.6	2029.5	2035.1	2033.2
5°	1995.7	2010.7	2031.4	2035.1	2038.9	2037.1	2033.2	2037.1	2055.8	2059.6	2061.4
7.5°	1980.6	2008.8	2035.1	2040.8	2046.4	2040.8	2038.9	2042.7	2061.4	2065.2	2065.2
10°	1961.9	2001.3	2031.4	2035.1	2040.8	2035.1	2035.1	2042.7	2061.4	2065.2	2067.1
12.5°	1935.5	1990.1	2018.2	2022.0	2029.5	2027.6	2025.8	2033.2	2052.1	2055.8	2055.8
15°	1905.5	1969.3	1995.7	1999.4	2012.6	2008.8	2008.8	2016.3	2037.1	2042.7	2040.8
17.5°	1864.2	1943.1	1973.2	1978.8	1988.2	1986.2	1988.2	1995.7	2014.5	2018.2	2020.1
20°	1817.2	1907.3	1943.1	1948.7	1958.1	1958.1	1958.1	1967.5	1986.2	1993.8	1993.8
22.5°	1753.3	1869.8	1907.3	1911.2	1922.4	1922.4	1926.2	1939.3	1956.2	1958.1	1958.1
25°	1678.1	1828.4	1860.3	1871.6	1882.9	1888.5	1894.2	1901.7	1907.3	1905.5	1907.3
27.5°	1599.2	1775.8	1817.2	1824.7	1839.7	1845.3	1852.9	1854.7	1856.6	1862.2	1858.5
30°	1510.8	1702.5	1764.5	1772.1	1796.5	1800.3	1792.7	1796.5	1805.9	1809.6	1813.4
32.5°	1411.3	1593.5	1710.1	1727.0	1749.5	1738.3	1736.3	1742.0	1757.0	1757.0	1760.8
35°	1275.9	1509.0	1659.3	1674.4	1691.3	1678.1	1685.6	1687.5	1696.9	1702.5	1700.6
37.5°	1127.5	1435.7	1606.7	1618.0	1631.1	1614.2	1625.4	1631.1	1638.6	1634.9	1634.9
40°	995.9	1321.0	1544.6	1552.2	1563.4	1550.3	1561.6	1565.4	1569.1	1565.4	1563.4
42.5°	898.2	1195.1	1478.9	1488.3	1480.8	1490.2	1493.9	1501.5	1495.8	1488.3	1488.3
45°	823.0	1161.3	1407.5	1418.7	1407.5	1422.6	1428.2	1428.2	1411.3	1407.5	1405.6
47.5°	798.7	1093.7	1336.1	1336.1	1330.5	1349.3	1358.6	1345.5	1328.6	1322.9	1322.9
50°	796.8	1018.5	1238.4	1230.8	1257.2	1279.7	1270.3	1257.2	1244.0	1223.4	1223.4
52.5°	723.5	926.4	1112.5	1140.7	1182.0	1195.1	1180.1	1166.9	1144.4	1135.0	1127.5
55°	670.9	830.6	997.8	1054.2	1097.4	1114.4	1086.1	1073.0	1039.2	1033.6	1029.8
57.5°	659.6	691.5	892.6	964.0	1016.7	1014.8	997.8	973.4	945.2	939.6	937.7
60°	605.1	499.9	779.9	864.4	918.9	913.3	898.2	875.7	849.4	845.6	841.9
62.5°	548.7	362.7	652.0	747.9	824.9	823.0	810.0	776.1	757.3	747.9	740.4
65°	466.1	304.4	464.2	622.0	732.9	736.6	708.4	684.1	663.3	652.0	650.2
67.5°	355.2	248.1	313.8	518.7	644.6	640.8	605.1	593.8	567.5	561.9	550.6
70°	263.1	165.4	218.0	421.0	558.2	548.7	520.5	507.3	483.0	469.8	462.2
72.5°	218.0	133.4	159.7	327.0	469.8	458.5	434.1	419.1	398.4	387.1	379.6
75°	176.6	140.9	122.2	242.4	381.4	374.0	351.4	336.3	319.4	304.4	306.3
77.5°	129.6	131.5	97.7	178.5	302.5	291.3	278.1	259.4	251.8	236.8	236.8
80°	97.7	103.4	73.3	122.2	218.0	218.0	206.7	193.5	180.4	172.9	172.9
82.5°	65.8	65.8	54.5	77.1	148.4	142.8	135.3	131.5	124.0	120.3	120.3
85°	30.1	37.5	33.8	47.0	80.8	84.5	84.5	80.8	78.9	75.2	77.1
87.5°	9.4	16.9	20.6	26.3	41.4	43.2	45.1	45.1	45.1	47.0	47.0
90°	2.8	5.0	7.3	7.8	12.3	18.3	21.3	19.0	14.2	10.6	10.6
92.5°	11.2	30.3	49.4	54.2	76.1	105.4	120.1	105.3	75.6	53.3	51.2
95°	26.9	61.8	96.8	105.5	187.4	296.5	351.1	313.3	237.7	181.0	174.6
97.5°	46.6	77.4	108.3	115.9	252.4	434.4	525.4	501.5	453.7	417.9	405.6
100°	61.7	89.7	117.6	124.6	276.1	478.0	579.0	580.8	584.2	586.8	572.3
102.5°	74.6	100.7	126.7	133.3	286.9	491.8	594.1	624.6	685.4	731.0	718.5
105°	96.6	118.6	140.7	146.2	295.0	493.2	592.4	660.6	797.1	899.4	892.7
107.5°	119.0	139.5	160.2	165.3	296.5	471.3	558.7	653.9	844.2	987.1	988.6
110°	134.1	152.7	171.3	176.0	294.2	451.9	530.7	637.1	849.8	1009.5	1016.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.1	166.7	184.5	188.9	294.3	434.9	505.2	614.1	831.8	995.2	1005.9
115°	171.5	187.8	204.2	208.3	297.0	415.3	474.6	579.5	789.2	946.6	961.5
117.5°	193.6	208.5	223.3	227.1	302.5	403.2	453.6	548.3	737.6	879.5	896.1
120°	206.5	220.5	234.5	238.0	307.0	399.0	445.1	531.5	704.6	834.3	850.4
122.5°	219.2	233.3	247.3	250.9	313.5	396.9	438.6	516.5	672.3	789.1	804.9
125°	238.5	251.4	264.3	267.5	322.2	395.2	431.6	497.7	630.1	729.4	743.9
127.5°	254.2	267.2	280.2	283.5	330.9	394.1	425.7	482.5	596.2	681.4	693.7
130°	262.6	276.7	290.7	294.1	337.3	394.7	423.5	474.1	575.3	651.1	662.5
132.5°	271.4	285.3	299.3	302.8	342.4	395.2	421.5	466.8	557.4	625.3	635.5
135°	284.3	297.0	309.7	312.9	348.0	394.8	418.2	456.1	531.9	588.8	597.6
137.5°	297.5	310.1	322.6	325.8	356.4	397.2	417.6	449.6	513.7	561.8	569.0
140°	308.4	320.0	331.7	334.6	361.6	397.6	415.6	443.3	498.7	540.2	547.0
142.5°	316.8	327.6	338.3	341.0	365.8	399.0	415.6	439.9	488.6	525.1	530.9
145°	329.8	339.1	348.5	350.8	371.5	399.0	412.8	432.7	472.5	502.3	506.7
147.5°	342.7	351.7	360.9	363.1	379.7	401.8	412.8	428.5	459.8	483.3	486.9
150°	351.1	359.3	367.5	369.6	384.0	403.2	412.8	426.1	452.5	472.3	475.2
152.5°	359.8	366.0	372.2	373.8	386.8	404.1	412.8	424.1	446.7	463.6	465.9
155°	372.7	377.2	381.9	383.0	392.9	406.2	412.8	421.8	439.8	453.3	454.8
157.5°	382.2	386.7	391.3	392.4	399.2	408.3	412.8	419.8	433.7	444.2	445.2
160°	388.7	392.2	395.7	396.6	402.0	409.2	412.8	418.8	430.8	439.7	440.3
162.5°	395.2	397.8	400.4	401.1	405.0	410.2	412.8	417.9	428.0	435.5	436.1
165°	402.2	404.5	406.9	407.5	409.3	411.6	412.8	416.5	423.7	429.1	429.6
167.5°	408.6	409.7	410.9	411.1	412.6	414.6	415.6	418.0	422.7	426.3	426.6
170°	412.8	413.9	415.1	415.3	415.4	415.5	415.6	418.0	422.7	426.3	426.3
172.5°	415.1	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2	424.0	423.8
175°	418.2	418.2	418.2	418.2	417.3	416.2	415.6	416.8	419.2	421.0	421.0
177.5°	418.2	418.2	418.2	418.2	417.5	416.7	416.2	417.1	419.0	420.4	420.1
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2
2.5°	2037.1	2031.4	2037.1	2033.2	2035.1	2029.5	2012.6	2007.0	2012.6	2018.2	2018.2
5°	2061.4	2057.7	2061.4	2061.4	2059.6	2055.8	2037.1	2033.2	2037.1	2038.9	2035.1
7.5°	2069.0	2063.3	2069.0	2065.2	2065.2	2061.4	2042.7	2038.9	2040.8	2046.4	2040.8
10°	2069.0	2063.3	2069.0	2067.1	2065.2	2061.4	2042.7	2035.1	2035.1	2040.8	2035.1
12.5°	2059.6	2055.8	2059.6	2055.8	2055.8	2052.1	2033.2	2025.8	2027.6	2029.5	2022.0
15°	2044.5	2038.9	2044.5	2040.8	2042.7	2037.1	2016.3	2008.8	2008.8	2012.6	1999.4
17.5°	2022.0	2014.5	2022.0	2020.1	2018.2	2014.5	1995.7	1988.2	1986.2	1988.2	1978.8
20°	1995.7	1990.1	1995.7	1993.8	1993.8	1986.2	1967.5	1958.1	1958.1	1958.1	1948.7
22.5°	1954.3	1948.7	1954.3	1958.1	1958.1	1956.2	1939.3	1926.2	1922.4	1922.4	1911.2
25°	1907.3	1901.7	1907.3	1907.3	1905.5	1907.3	1901.7	1894.2	1888.5	1882.9	1871.6
27.5°	1862.2	1858.5	1862.2	1858.5	1862.2	1856.6	1854.7	1852.9	1845.3	1839.7	1824.7
30°	1817.2	1813.4	1817.2	1813.4	1809.6	1805.9	1796.5	1792.7	1800.3	1796.5	1772.1
32.5°	1760.8	1757.0	1760.8	1760.8	1757.0	1757.0	1742.0	1736.3	1738.3	1749.5	1727.0
35°	1702.5	1696.9	1702.5	1700.6	1702.5	1696.9	1687.5	1685.6	1678.1	1691.3	1674.4
37.5°	1634.9	1629.3	1634.9	1634.9	1634.9	1638.6	1631.1	1625.4	1614.2	1631.1	1618.0
40°	1565.4	1557.8	1565.4	1563.4	1565.4	1569.1	1565.4	1561.6	1550.3	1563.4	1552.2
42.5°	1486.5	1484.5	1486.5	1488.3	1488.3	1495.8	1501.5	1493.9	1490.2	1480.8	1488.3
45°	1401.8	1398.1	1401.8	1405.6	1407.5	1411.3	1428.2	1428.2	1422.6	1407.5	1418.7
47.5°	1311.6	1302.3	1311.6	1322.9	1322.9	1328.6	1345.5	1358.6	1349.3	1330.5	1336.1
50°	1215.8	1217.7	1215.8	1223.4	1223.4	1244.0	1257.2	1270.3	1279.7	1257.2	1230.8
52.5°	1121.8	1120.0	1121.8	1127.5	1135.0	1144.4	1166.9	1180.1	1195.1	1182.0	1140.7
55°	1027.9	1031.7	1027.9	1029.8	1033.6	1039.2	1073.0	1086.1	1114.4	1097.4	1054.2
57.5°	933.9	928.3	933.9	937.7	939.6	945.2	973.4	997.8	1014.8	1016.7	964.0
60°	824.9	817.4	824.9	841.9	845.6	849.4	875.7	898.2	913.3	918.9	864.4
62.5°	729.1	716.0	729.1	740.4	747.9	757.3	776.1	810.0	823.0	824.9	747.9
65°	627.6	622.0	627.6	650.2	652.0	663.3	684.1	708.4	736.6	732.9	622.0
67.5°	535.6	535.6	535.6	550.6	561.9	567.5	593.8	605.1	640.8	644.6	518.7
70°	451.0	449.2	451.0	462.2	469.8	483.0	507.3	520.5	548.7	558.2	421.0
72.5°	370.2	368.3	370.2	379.6	387.1	398.4	419.1	434.1	458.5	469.8	327.0
75°	298.8	295.1	298.8	306.3	304.4	319.4	336.3	351.4	374.0	381.4	242.4
77.5°	229.3	229.3	229.3	236.8	236.8	251.8	259.4	278.1	291.3	302.5	178.5
80°	171.0	169.1	171.0	172.9	172.9	180.4	193.5	206.7	218.0	218.0	122.2
82.5°	120.3	116.5	120.3	120.3	120.3	124.0	131.5	135.3	142.8	148.4	77.1
85°	75.2	75.2	75.2	77.1	75.2	78.9	80.8	84.5	84.5	80.8	47.0
87.5°	48.8	47.0	48.8	47.0	47.0	45.1	45.1	45.1	43.2	41.4	26.3
90°	10.6	10.6	10.6	10.6	10.6	14.2	19.0	21.3	18.3	12.3	7.8
92.5°	42.8	34.3	42.8	51.2	53.3	75.6	105.3	120.1	105.4	76.1	54.2
95°	148.9	123.2	148.9	174.6	181.0	237.7	313.3	351.1	296.5	187.4	105.5
97.5°	356.8	307.8	356.8	405.6	417.9	453.7	501.5	525.4	434.4	252.4	115.9
100°	514.1	455.8	514.1	572.3	586.8	584.2	580.8	579.0	478.0	276.1	124.6
102.5°	668.7	618.8	668.7	718.5	731.0	685.4	624.6	594.1	491.8	286.9	133.3
105°	865.9	839.1	865.9	892.7	899.4	797.1	660.6	592.4	493.2	295.0	146.2
107.5°	995.2	1001.6	995.2	988.6	987.1	844.2	653.9	558.7	471.3	296.5	165.3
110°	1044.4	1072.3	1044.4	1016.5	1009.5	849.8	637.1	530.7	451.9	294.2	176.0



TEST NUMBER: P933905

CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1048.8	1091.7	1048.8	1005.9	995.2	831.8	614.1	505.2	434.9	294.3	188.9
115°	1021.0	1080.5	1021.0	961.5	946.6	789.2	579.5	474.6	415.3	297.0	208.3
117.5°	962.0	1028.0	962.0	896.1	879.5	737.6	548.3	453.6	403.2	302.5	227.1
120°	914.5	978.6	914.5	850.4	834.3	704.6	531.5	445.1	399.0	307.0	238.0
122.5°	868.2	931.5	868.2	804.9	789.1	672.3	516.5	438.6	396.9	313.5	250.9
125°	802.1	860.4	802.1	743.9	729.4	630.1	497.7	431.6	395.2	322.2	267.5
127.5°	742.8	791.9	742.8	693.7	681.4	596.2	482.5	425.7	394.1	330.9	283.5
130°	707.9	753.3	707.9	662.5	651.1	575.3	474.1	423.5	394.7	337.3	294.1
132.5°	676.1	716.8	676.1	635.5	625.3	557.4	466.8	421.5	395.2	342.4	302.8
135°	632.6	667.6	632.6	597.6	588.8	531.9	456.1	418.2	394.8	348.0	312.9
137.5°	597.7	626.4	597.7	569.0	561.8	513.7	449.6	417.6	397.2	356.4	325.8
140°	573.8	600.6	573.8	547.0	540.2	498.7	443.3	415.6	397.6	361.6	334.6
142.5°	554.0	577.0	554.0	530.9	525.1	488.6	439.9	415.6	399.0	365.8	341.0
145°	524.2	541.6	524.2	506.7	502.3	472.5	432.7	412.8	399.0	371.5	350.8
147.5°	501.4	515.8	501.4	486.9	483.3	459.8	428.5	412.8	401.8	379.7	363.1
150°	487.0	498.7	487.0	475.2	472.3	452.5	426.1	412.8	403.2	384.0	369.6
152.5°	474.7	483.5	474.7	465.9	463.6	446.7	424.1	412.8	404.1	386.8	373.8
155°	460.6	466.4	460.6	454.8	453.3	439.8	421.8	412.8	406.2	392.9	383.0
157.5°	449.4	453.6	449.4	445.2	444.2	433.7	419.8	412.8	408.3	399.2	392.4
160°	442.7	445.1	442.7	440.3	439.7	430.8	418.8	412.8	409.2	402.0	396.6
162.5°	438.3	440.6	438.3	436.1	435.5	428.0	417.9	412.8	410.2	405.0	401.1
165°	432.1	434.4	432.1	429.6	429.1	423.7	416.5	412.8	411.6	409.3	407.5
167.5°	427.5	428.5	427.5	426.6	426.3	422.7	418.0	415.6	414.6	412.6	411.1
170°	426.3	426.3	426.3	426.3	426.3	422.7	418.0	415.6	415.5	415.4	415.3
172.5°	422.9	422.1	422.9	423.8	424.0	421.2	417.5	415.6	415.6	415.6	415.6
175°	421.0	421.0	421.0	421.0	421.0	419.2	416.8	415.6	416.2	417.3	418.2
177.5°	419.2	418.2	419.2	420.1	420.4	419.0	417.1	416.2	416.7	417.5	418.2
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2



TEST NUMBER: P933905

CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2
2.5°	2014.5	2003.1	2003.1	1984.4	1976.9	1971.2	1961.9	1933.7	1926.2	1918.6	1929.9
5°	2031.4	2010.7	1995.7	1961.9	1933.7	1922.4	1886.7	1819.1	1773.9	1740.1	1721.4
7.5°	2035.1	2008.8	1980.6	1928.1	1860.3	1830.3	1721.4	1597.3	1563.4	1533.4	1514.6
10°	2031.4	2001.3	1961.9	1882.9	1723.2	1670.6	1561.6	1480.8	1460.1	1454.5	1460.1
12.5°	2018.2	1990.1	1935.5	1804.0	1580.4	1544.6	1480.8	1433.8	1430.0	1439.5	1490.2
15°	1995.7	1969.3	1905.5	1698.8	1501.5	1475.2	1430.0	1413.1	1433.8	1499.5	1651.8
17.5°	1973.2	1943.1	1864.2	1595.5	1441.3	1422.6	1390.5	1424.4	1540.9	1629.3	1680.0
20°	1943.1	1907.3	1817.2	1520.3	1398.1	1381.2	1366.2	1518.4	1606.7	1638.6	1666.8
22.5°	1907.3	1869.8	1753.3	1467.6	1353.0	1339.8	1349.3	1571.0	1606.7	1629.3	1653.6
25°	1860.3	1828.4	1678.1	1426.3	1317.3	1302.3	1338.0	1565.4	1586.0	1591.6	1640.5
27.5°	1817.2	1775.8	1599.2	1388.7	1274.1	1268.5	1347.4	1540.9	1556.0	1561.6	1614.2
30°	1764.5	1702.5	1510.8	1349.3	1229.0	1227.1	1349.3	1510.8	1507.1	1522.1	1574.7
32.5°	1710.1	1593.5	1411.3	1300.4	1185.7	1183.8	1336.1	1465.7	1462.0	1482.6	1522.1
35°	1659.3	1509.0	1275.9	1244.0	1131.3	1133.1	1304.1	1413.1	1415.0	1433.8	1458.3
37.5°	1606.7	1435.7	1127.5	1182.0	1078.7	1078.7	1260.9	1364.3	1360.6	1366.2	1400.0
40°	1544.6	1321.0	995.9	1101.2	1029.8	1024.1	1208.3	1311.6	1298.5	1296.7	1343.6
42.5°	1478.9	1195.1	898.2	994.1	973.4	965.8	1144.4	1247.7	1223.4	1229.0	1289.1
45°	1407.5	1161.3	823.0	839.9	915.1	909.5	1074.8	1174.5	1157.6	1172.6	1234.7
47.5°	1336.1	1093.7	798.7	697.1	853.1	851.2	997.8	1103.1	1093.7	1108.8	1174.5
50°	1238.4	1018.5	796.8	597.6	783.6	791.1	905.8	1033.6	1033.6	1046.7	1116.2
52.5°	1112.5	926.4	723.5	541.2	702.8	725.3	824.9	973.4	977.2	990.3	1052.3
55°	997.8	830.6	670.9	498.0	607.0	655.9	746.0	911.4	918.9	932.0	988.5
57.5°	892.6	691.5	659.6	447.2	518.7	565.6	676.5	851.2	855.0	866.3	920.8
60°	779.9	499.9	605.1	392.7	441.6	477.3	612.6	779.9	793.0	800.5	847.5
62.5°	652.0	362.7	548.7	355.2	404.0	411.5	560.0	712.2	729.1	734.8	763.0
65°	464.2	304.4	466.1	323.3	364.5	366.4	503.6	642.7	657.7	667.1	687.8
67.5°	313.8	248.1	355.2	293.2	334.5	336.3	449.2	561.9	582.5	590.1	603.2
70°	218.0	165.4	263.1	261.2	300.7	304.4	390.9	488.6	507.3	513.0	520.5
72.5°	159.7	133.4	218.0	234.9	265.0	268.7	330.7	405.9	424.7	430.3	434.1
75°	122.2	140.9	176.6	204.8	225.5	227.3	270.6	330.7	343.9	347.6	349.5
77.5°	97.7	131.5	129.6	165.4	184.2	180.4	212.4	255.5	266.8	266.8	266.8
80°	73.3	103.4	97.7	118.4	135.3	131.5	152.2	182.3	186.1	189.8	187.9
82.5°	54.5	65.8	65.8	75.2	90.2	86.5	101.4	118.4	118.4	118.4	122.2
85°	33.8	37.5	30.1	39.5	50.7	48.8	56.4	63.9	65.8	65.8	62.0
87.5°	20.6	16.9	9.4	15.0	22.5	22.5	26.3	28.2	26.3	26.3	26.3
90°	7.3	5.0	2.8	5.0	7.3	7.8	12.3	18.3	21.3	19.0	14.2
92.5°	49.4	30.3	11.2	30.3	49.4	54.2	76.1	105.4	120.1	105.3	75.6
95°	96.8	61.8	26.9	61.8	96.8	105.5	187.4	296.5	351.1	313.3	237.7
97.5°	108.3	77.4	46.6	77.4	108.3	115.9	252.4	434.4	525.4	501.5	453.7
100°	117.6	89.7	61.7	89.7	117.6	124.6	276.1	478.0	579.0	580.8	584.2
102.5°	126.7	100.7	74.6	100.7	126.7	133.3	286.9	491.8	594.1	624.6	685.4
105°	140.7	118.6	96.6	118.6	140.7	146.2	295.0	493.2	592.4	660.6	797.1
107.5°	160.2	139.5	119.0	139.5	160.2	165.3	296.5	471.3	558.7	653.9	844.2
110°	171.3	152.7	134.1	152.7	171.3	176.0	294.2	451.9	530.7	637.1	849.8



TEST NUMBER: P933905

CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	184.5	166.7	149.1	166.7	184.5	188.9	294.3	434.9	505.2	614.1	831.8
115°	204.2	187.8	171.5	187.8	204.2	208.3	297.0	415.3	474.6	579.5	789.2
117.5°	223.3	208.5	193.6	208.5	223.3	227.1	302.5	403.2	453.6	548.3	737.6
120°	234.5	220.5	206.5	220.5	234.5	238.0	307.0	399.0	445.1	531.5	704.6
122.5°	247.3	233.3	219.2	233.3	247.3	250.9	313.5	396.9	438.6	516.5	672.3
125°	264.3	251.4	238.5	251.4	264.3	267.5	322.2	395.2	431.6	497.7	630.1
127.5°	280.2	267.2	254.2	267.2	280.2	283.5	330.9	394.1	425.7	482.5	596.2
130°	290.7	276.7	262.6	276.7	290.7	294.1	337.3	394.7	423.5	474.1	575.3
132.5°	299.3	285.3	271.4	285.3	299.3	302.8	342.4	395.2	421.5	466.8	557.4
135°	309.7	297.0	284.3	297.0	309.7	312.9	348.0	394.8	418.2	456.1	531.9
137.5°	322.6	310.1	297.5	310.1	322.6	325.8	356.4	397.2	417.6	449.6	513.7
140°	331.7	320.0	308.4	320.0	331.7	334.6	361.6	397.6	415.6	443.3	498.7
142.5°	338.3	327.6	316.8	327.6	338.3	341.0	365.8	399.0	415.6	439.9	488.6
145°	348.5	339.1	329.8	339.1	348.5	350.8	371.5	399.0	412.8	432.7	472.5
147.5°	360.9	351.7	342.7	351.7	360.9	363.1	379.7	401.8	412.8	428.5	459.8
150°	367.5	359.3	351.1	359.3	367.5	369.6	384.0	403.2	412.8	426.1	452.5
152.5°	372.2	366.0	359.8	366.0	372.2	373.8	386.8	404.1	412.8	424.1	446.7
155°	381.9	377.2	372.7	377.2	381.9	383.0	392.9	406.2	412.8	421.8	439.8
157.5°	391.3	386.7	382.2	386.7	391.3	392.4	399.2	408.3	412.8	419.8	433.7
160°	395.7	392.2	388.7	392.2	395.7	396.6	402.0	409.2	412.8	418.8	430.8
162.5°	400.4	397.8	395.2	397.8	400.4	401.1	405.0	410.2	412.8	417.9	428.0
165°	406.9	404.5	402.2	404.5	406.9	407.5	409.3	411.6	412.8	416.5	423.7
167.5°	410.9	409.7	408.6	409.7	410.9	411.1	412.6	414.6	415.6	418.0	422.7
170°	415.1	413.9	412.8	413.9	415.1	415.3	415.4	415.5	415.6	418.0	422.7
172.5°	415.5	415.3	415.1	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2
175°	418.2	418.2	418.2	418.2	418.2	418.2	417.3	416.2	415.6	416.8	419.2
177.5°	418.2	418.2	418.2	418.2	418.2	418.2	417.5	416.7	416.2	417.1	419.0
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2



TEST NUMBER: P933905
 CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2	1986.2
2.5°	1916.8	1911.2	1918.6	1898.0	1918.6	1911.2	1916.8	1929.9	1918.6	1926.2	1933.7
5°	1681.9	1672.4	1642.4	1618.0	1642.4	1672.4	1681.9	1721.4	1740.1	1773.9	1819.1
7.5°	1503.4	1495.8	1488.3	1473.3	1488.3	1495.8	1503.4	1514.6	1533.4	1563.4	1597.3
10°	1463.9	1465.7	1477.0	1475.2	1477.0	1465.7	1463.9	1460.1	1454.5	1460.1	1480.8
12.5°	1565.4	1582.3	1644.3	1640.5	1644.3	1582.3	1565.4	1490.2	1439.5	1430.0	1433.8
15°	1681.9	1687.5	1700.6	1702.5	1700.6	1687.5	1681.9	1651.8	1499.5	1433.8	1413.1
17.5°	1693.2	1695.0	1704.4	1704.4	1704.4	1695.0	1693.2	1680.0	1629.3	1540.9	1424.4
20°	1683.7	1687.5	1706.3	1710.1	1706.3	1687.5	1683.7	1666.8	1638.6	1606.7	1518.4
22.5°	1680.0	1687.5	1702.5	1700.6	1702.5	1687.5	1680.0	1653.6	1629.3	1606.7	1571.0
25°	1661.2	1661.2	1663.1	1664.9	1663.1	1661.2	1661.2	1640.5	1591.6	1586.0	1565.4
27.5°	1621.7	1625.4	1636.7	1634.9	1636.7	1625.4	1621.7	1614.2	1561.6	1556.0	1540.9
30°	1586.0	1582.3	1572.9	1565.4	1572.9	1582.3	1586.0	1574.7	1522.1	1507.1	1510.8
32.5°	1525.9	1516.4	1507.1	1501.5	1507.1	1516.4	1525.9	1522.1	1482.6	1462.0	1465.7
35°	1454.5	1456.4	1454.5	1448.8	1454.5	1456.4	1454.5	1458.3	1433.8	1415.0	1413.1
37.5°	1403.7	1407.5	1405.6	1398.1	1405.6	1407.5	1403.7	1400.0	1366.2	1360.6	1364.3
40°	1351.1	1353.0	1351.1	1345.5	1351.1	1353.0	1351.1	1343.6	1296.7	1298.5	1311.6
42.5°	1300.4	1298.5	1292.8	1289.1	1292.8	1298.5	1300.4	1289.1	1229.0	1223.4	1247.7
45°	1242.1	1244.0	1232.7	1227.1	1232.7	1244.0	1242.1	1234.7	1172.6	1157.6	1174.5
47.5°	1183.8	1183.8	1174.5	1168.8	1174.5	1183.8	1183.8	1174.5	1108.8	1093.7	1103.1
50°	1121.8	1120.0	1106.8	1104.9	1106.8	1120.0	1121.8	1116.2	1046.7	1033.6	1033.6
52.5°	1050.5	1050.5	1052.3	1056.1	1052.3	1050.5	1050.5	1052.3	990.3	977.2	973.4
55°	988.5	990.3	1003.5	1007.2	1003.5	990.3	988.5	988.5	932.0	918.9	911.4
57.5°	924.6	924.6	933.9	933.9	933.9	924.6	924.6	920.8	866.3	855.0	851.2
60°	851.2	855.0	862.5	860.7	862.5	855.0	851.2	847.5	800.5	793.0	779.9
62.5°	774.2	778.0	779.9	776.1	779.9	778.0	774.2	763.0	734.8	729.1	712.2
65°	693.4	697.1	699.0	695.3	699.0	697.1	693.4	687.8	667.1	657.7	642.7
67.5°	610.7	608.9	607.0	614.5	607.0	608.9	610.7	603.2	590.1	582.5	561.9
70°	526.1	526.1	524.3	528.1	524.3	526.1	526.1	520.5	513.0	507.3	488.6
72.5°	436.0	434.1	441.6	436.0	441.6	434.1	436.0	434.1	430.3	424.7	405.9
75°	347.6	351.4	347.6	353.2	347.6	351.4	347.6	349.5	347.6	343.9	330.7
77.5°	265.0	268.7	265.0	265.0	265.0	268.7	265.0	266.8	266.8	266.8	255.5
80°	187.9	186.1	186.1	184.2	186.1	186.1	187.9	187.9	189.8	186.1	182.3
82.5°	120.3	118.4	118.4	122.2	118.4	118.4	120.3	122.2	118.4	118.4	118.4
85°	65.8	67.6	63.9	63.9	63.9	67.6	65.8	62.0	65.8	65.8	63.9
87.5°	24.5	22.5	22.5	22.5	22.5	22.5	24.5	26.3	26.3	26.3	28.2
90°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	14.2	19.0	21.3	18.3
92.5°	53.3	51.2	42.8	34.3	42.8	51.2	53.3	75.6	105.3	120.1	105.4
95°	181.0	174.6	148.9	123.2	148.9	174.6	181.0	237.7	313.3	351.1	296.5
97.5°	417.9	405.6	356.8	307.8	356.8	405.6	417.9	453.7	501.5	525.4	434.4
100°	586.8	572.3	514.1	455.8	514.1	572.3	586.8	584.2	580.8	579.0	478.0
102.5°	731.0	718.5	668.7	618.8	668.7	718.5	731.0	685.4	624.6	594.1	491.8
105°	899.4	892.7	865.9	839.1	865.9	892.7	899.4	797.1	660.6	592.4	493.2
107.5°	987.1	988.6	995.2	1001.6	995.2	988.6	987.1	844.2	653.9	558.7	471.3
110°	1009.5	1016.5	1044.4	1072.3	1044.4	1016.5	1009.5	849.8	637.1	530.7	451.9



TEST NUMBER: P933905

CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	995.2	1005.9	1048.8	1091.7	1048.8	1005.9	995.2	831.8	614.1	505.2	434.9
115°	946.6	961.5	1021.0	1080.5	1021.0	961.5	946.6	789.2	579.5	474.6	415.3
117.5°	879.5	896.1	962.0	1028.0	962.0	896.1	879.5	737.6	548.3	453.6	403.2
120°	834.3	850.4	914.5	978.6	914.5	850.4	834.3	704.6	531.5	445.1	399.0
122.5°	789.1	804.9	868.2	931.5	868.2	804.9	789.1	672.3	516.5	438.6	396.9
125°	729.4	743.9	802.1	860.4	802.1	743.9	729.4	630.1	497.7	431.6	395.2
127.5°	681.4	693.7	742.8	791.9	742.8	693.7	681.4	596.2	482.5	425.7	394.1
130°	651.1	662.5	707.9	753.3	707.9	662.5	651.1	575.3	474.1	423.5	394.7
132.5°	625.3	635.5	676.1	716.8	676.1	635.5	625.3	557.4	466.8	421.5	395.2
135°	588.8	597.6	632.6	667.6	632.6	597.6	588.8	531.9	456.1	418.2	394.8
137.5°	561.8	569.0	597.7	626.4	597.7	569.0	561.8	513.7	449.6	417.6	397.2
140°	540.2	547.0	573.8	600.6	573.8	547.0	540.2	498.7	443.3	415.6	397.6
142.5°	525.1	530.9	554.0	577.0	554.0	530.9	525.1	488.6	439.9	415.6	399.0
145°	502.3	506.7	524.2	541.6	524.2	506.7	502.3	472.5	432.7	412.8	399.0
147.5°	483.3	486.9	501.4	515.8	501.4	486.9	483.3	459.8	428.5	412.8	401.8
150°	472.3	475.2	487.0	498.7	487.0	475.2	472.3	452.5	426.1	412.8	403.2
152.5°	463.6	465.9	474.7	483.5	474.7	465.9	463.6	446.7	424.1	412.8	404.1
155°	453.3	454.8	460.6	466.4	460.6	454.8	453.3	439.8	421.8	412.8	406.2
157.5°	444.2	445.2	449.4	453.6	449.4	445.2	444.2	433.7	419.8	412.8	408.3
160°	439.7	440.3	442.7	445.1	442.7	440.3	439.7	430.8	418.8	412.8	409.2
162.5°	435.5	436.1	438.3	440.6	438.3	436.1	435.5	428.0	417.9	412.8	410.2
165°	429.1	429.6	432.1	434.4	432.1	429.6	429.1	423.7	416.5	412.8	411.6
167.5°	426.3	426.6	427.5	428.5	427.5	426.6	426.3	422.7	418.0	415.6	414.6
170°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	422.7	418.0	415.6	415.5
172.5°	424.0	423.8	422.9	422.1	422.9	423.8	424.0	421.2	417.5	415.6	415.6
175°	421.0	421.0	421.0	421.0	421.0	421.0	421.0	419.2	416.8	415.6	416.2
177.5°	420.4	420.1	419.2	418.2	419.2	420.1	420.4	419.0	417.1	416.2	416.7
180°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2



TEST NUMBER: P933905

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1986.2	1986.2	1986.2	1986.2	1986.2
2.5°	1961.9	1971.2	1976.9	1984.4	2003.1
5°	1886.7	1922.4	1933.7	1961.9	1995.7
7.5°	1721.4	1830.3	1860.3	1928.1	1980.6
10°	1561.6	1670.6	1723.2	1882.9	1961.9
12.5°	1480.8	1544.6	1580.4	1804.0	1935.5
15°	1430.0	1475.2	1501.5	1698.8	1905.5
17.5°	1390.5	1422.6	1441.3	1595.5	1864.2
20°	1366.2	1381.2	1398.1	1520.3	1817.2
22.5°	1349.3	1339.8	1353.0	1467.6	1753.3
25°	1338.0	1302.3	1317.3	1426.3	1678.1
27.5°	1347.4	1268.5	1274.1	1388.7	1599.2
30°	1349.3	1227.1	1229.0	1349.3	1510.8
32.5°	1336.1	1183.8	1185.7	1300.4	1411.3
35°	1304.1	1133.1	1131.3	1244.0	1275.9
37.5°	1260.9	1078.7	1078.7	1182.0	1127.5
40°	1208.3	1024.1	1029.8	1101.2	995.9
42.5°	1144.4	965.8	973.4	994.1	898.2
45°	1074.8	909.5	915.1	839.9	823.0
47.5°	997.8	851.2	853.1	697.1	798.7
50°	905.8	791.1	783.6	597.6	796.8
52.5°	824.9	725.3	702.8	541.2	723.5
55°	746.0	655.9	607.0	498.0	670.9
57.5°	676.5	565.6	518.7	447.2	659.6
60°	612.6	477.3	441.6	392.7	605.1
62.5°	560.0	411.5	404.0	355.2	548.7
65°	503.6	366.4	364.5	323.3	466.1
67.5°	449.2	336.3	334.5	293.2	355.2
70°	390.9	304.4	300.7	261.2	263.1
72.5°	330.7	268.7	265.0	234.9	218.0
75°	270.6	227.3	225.5	204.8	176.6
77.5°	212.4	180.4	184.2	165.4	129.6
80°	152.2	131.5	135.3	118.4	97.7
82.5°	101.4	86.5	90.2	75.2	65.8
85°	56.4	48.8	50.7	39.5	30.1
87.5°	26.3	22.5	22.5	15.0	9.4
90°	12.3	7.8	7.3	5.0	2.8
92.5°	76.1	54.2	49.4	30.3	11.2
95°	187.4	105.5	96.8	61.8	26.9
97.5°	252.4	115.9	108.3	77.4	46.6
100°	276.1	124.6	117.6	89.7	61.7
102.5°	286.9	133.3	126.7	100.7	74.6
105°	295.0	146.2	140.7	118.6	96.6
107.5°	296.5	165.3	160.2	139.5	119.0
110°	294.2	176.0	171.3	152.7	134.1



TEST NUMBER: P933905

CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	294.3	188.9	184.5	166.7	149.1
115°	297.0	208.3	204.2	187.8	171.5
117.5°	302.5	227.1	223.3	208.5	193.6
120°	307.0	238.0	234.5	220.5	206.5
122.5°	313.5	250.9	247.3	233.3	219.2
125°	322.2	267.5	264.3	251.4	238.5
127.5°	330.9	283.5	280.2	267.2	254.2
130°	337.3	294.1	290.7	276.7	262.6
132.5°	342.4	302.8	299.3	285.3	271.4
135°	348.0	312.9	309.7	297.0	284.3
137.5°	356.4	325.8	322.6	310.1	297.5
140°	361.6	334.6	331.7	320.0	308.4
142.5°	365.8	341.0	338.3	327.6	316.8
145°	371.5	350.8	348.5	339.1	329.8
147.5°	379.7	363.1	360.9	351.7	342.7
150°	384.0	369.6	367.5	359.3	351.1
152.5°	386.8	373.8	372.2	366.0	359.8
155°	392.9	383.0	381.9	377.2	372.7
157.5°	399.2	392.4	391.3	386.7	382.2
160°	402.0	396.6	395.7	392.2	388.7
162.5°	405.0	401.1	400.4	397.8	395.2
165°	409.3	407.5	406.9	404.5	402.2
167.5°	412.6	411.1	410.9	409.7	408.6
170°	415.4	415.3	415.1	413.9	412.8
172.5°	415.6	415.6	415.5	415.3	415.1
175°	417.3	418.2	418.2	418.2	418.2
177.5°	417.5	418.2	418.2	418.2	418.2
180°	418.2	418.2	418.2	418.2	418.2



TEST NUMBER: P933905
 CATALOG NUMBER: SQ4-FA-025U-050D-B50-1D-UNV-STD-W-12

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	12.44	13.46	13.25	14.30	15.33	15.29	16.31	16.10	17.15	18.18
	3H	12.93	13.85	13.75	14.69	15.75	16.66	17.57	17.48	18.42	19.47
	4H	13.13	13.99	13.97	14.84	15.91	17.11	17.98	17.95	18.83	19.90
	6H	13.26	14.05	14.11	14.91	15.99	17.41	18.21	18.26	19.07	20.15
	8H	13.26	14.02	14.12	14.90	15.98	17.49	18.25	18.36	19.13	20.21
	12H	13.24	13.96	14.11	14.83	15.94	17.54	18.26	18.41	19.13	20.24
4H	2H	13.50	14.36	14.34	15.21	16.28	15.72	16.58	16.57	17.44	18.51
	3H	14.54	15.26	15.40	16.14	17.23	17.25	17.97	18.10	18.85	19.94
	4H	14.82	15.48	15.69	16.36	17.47	17.79	18.44	18.66	19.32	20.44
	6H	14.96	15.52	15.84	16.43	17.54	18.17	18.73	19.05	19.64	20.75
	8H	14.97	15.50	15.85	16.40	17.52	18.28	18.81	19.17	19.71	20.84
	12H	14.94	15.42	15.85	16.34	17.47	18.35	18.82	19.26	19.74	20.88
8H	4H	15.29	15.82	16.18	16.72	17.85	17.92	18.45	18.81	19.35	20.48
	6H	15.56	16.00	16.48	16.94	18.07	18.37	18.81	19.29	19.75	20.88
	8H	15.60	15.99	16.53	16.93	18.07	18.53	18.92	19.45	19.85	21.00
	12H	15.60	15.94	16.53	16.86	18.06	18.64	18.98	19.57	19.91	21.10
12H	4H	15.31	15.78	16.22	16.70	17.84	17.89	18.37	18.80	19.29	20.42
	6H	15.62	16.01	16.55	16.95	18.09	18.37	18.76	19.30	19.69	20.84
	8H	15.70	16.04	16.63	16.97	18.16	18.54	18.88	19.47	19.81	21.01