

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: P934415

Luminaire Tested: SQ4-FA-050U-100D-835-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934415
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

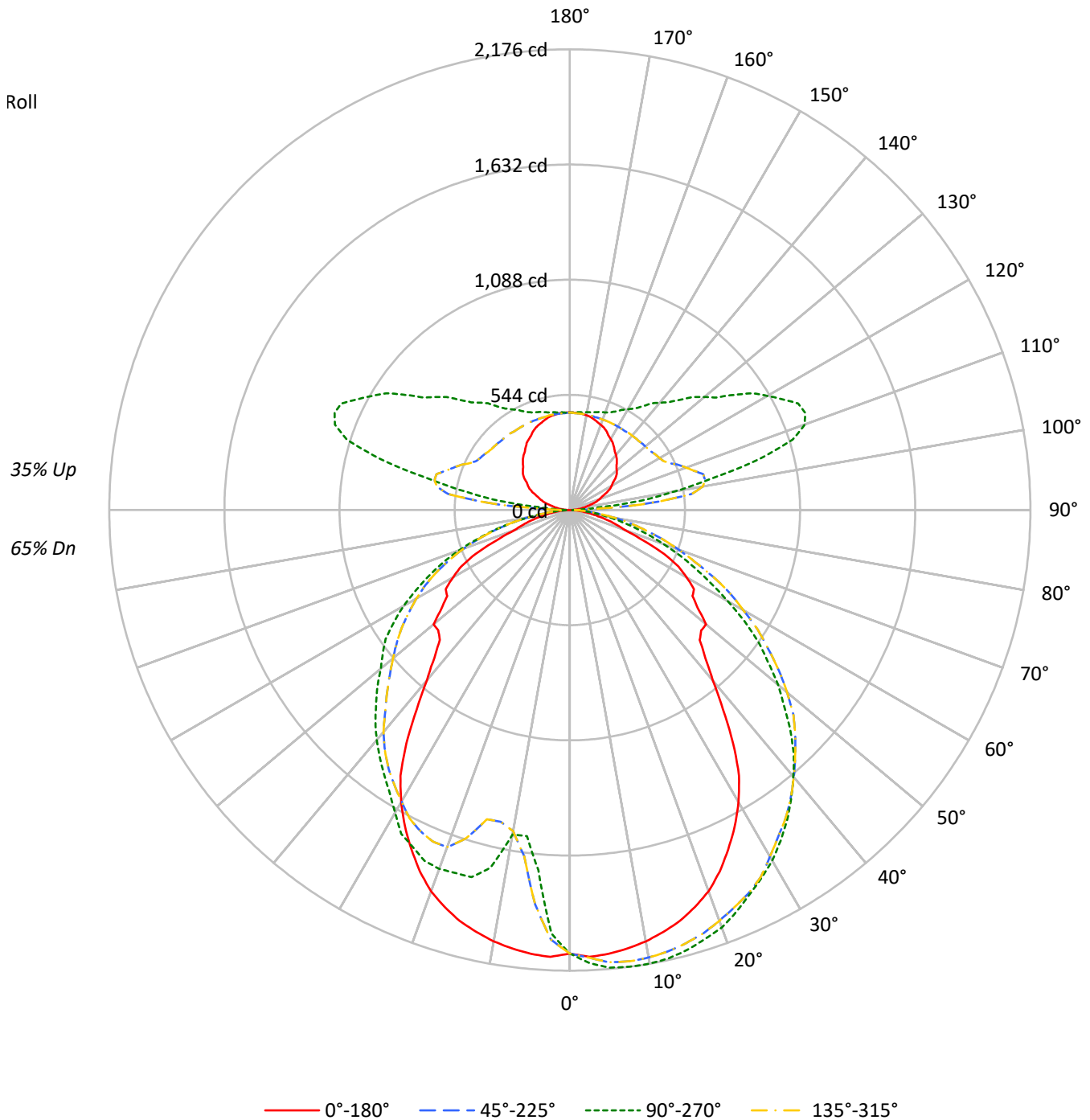
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8419.0 lumens
Efficiency: N/A
Efficacy: 124.2 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): 67.8
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





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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	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12958	12958	12958	12958
5°	13049	13080	13049	10285
10°	12958	12885	12958	9212
15°	12812	12605	12812	10526
20°	12539	12275	12539	10548
25°	11986	11793	11986	10324
30°	11273	11392	11273	9833
35°	10045	10885	10045	9294
40°	8365	10289	8365	8887
45°	7469	9591	7469	8418
50°	7929	8759	7929	7948
55°	7453	7862	7453	7676
60°	7673	6677	7673	7030
65°	6946	5519	6946	6170
70°	4798	4399	4798	5171
75°	4192	3251	4192	3894
80°	3352	2150	3352	2341
85°	1890	1139	1890	968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11455 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	2.2
10°-20°	536.8	6.4
20°-30°	829.9	9.9
30°-40°	990.7	11.8
40°-50°	996.5	11.8
50°-60°	867.1	10.3
60°-70°	614.8	7.3
70°-80°	325.2	3.9
80°-90°	82.8	1.0
90°-100°	224.5	2.7
100°-110°	590.3	7.0
110°-120°	612.1	7.3
120°-130°	491.0	5.8
130°-140°	385.3	4.6
140°-150°	295.7	3.5
150°-160°	213.0	2.5
160°-170°	130.3	1.5
170°-180°	44.0	0.5
0°-30°	1555.8	18.5
0°-40°	2546.5	30.2
0°-60°	4410.0	52.4
0°-90°	5432.8	64.5
90°-120°	1427.0	17.0
90°-150°	2599.0	30.9
90°-180°	2986.0	35.5
0°-180°	8419.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2095	2095	2095	2095	2095	
5°	2104	2170	2104	1706	2104	200
15°	2009	2150	2009	1795	2009	565
25°	1770	2006	1770	1756	1770	813
35°	1346	1789	1346	1528	1346	832
45°	868	1474	868	1294	868	695
55°	708	1088	708	1062	708	650
65°	492	656	492	733	492	470
75°	186	311	186	373	186	196
85°	32	79	32	67	32	43
90°	3	12	3	12	3	4
95°	30	136	30	136	30	33
105°	106	924	106	924	106	113
115°	189	1190	189	1190	189	187
125°	263	948	263	948	263	233
135°	313	736	313	736	313	242
145°	363	597	363	597	363	228
155°	411	514	411	514	411	189
165°	443	479	443	479	443	125
175°	461	464	461	464	461	44
180°	461	461	461	461	461	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6
2.5°	2112.5	2112.5	2124.4	2128.3	2128.3	2122.4	2116.4	2122.4	2140.2	2146.2	2144.2
5°	2104.5	2120.4	2142.2	2146.2	2150.1	2148.1	2144.2	2148.1	2167.9	2171.9	2173.9
7.5°	2088.7	2118.4	2146.2	2152.1	2158.0	2152.1	2150.1	2154.1	2173.9	2177.9	2177.9
10°	2068.9	2110.5	2142.2	2146.2	2152.1	2146.2	2146.2	2154.1	2173.9	2177.9	2179.8
12.5°	2041.1	2098.6	2128.3	2132.3	2140.2	2138.2	2136.2	2144.2	2164.0	2167.9	2167.9
15°	2009.4	2076.8	2104.5	2108.5	2122.4	2118.4	2118.4	2126.3	2148.1	2154.1	2152.1
17.5°	1965.8	2049.0	2080.8	2086.7	2096.6	2094.6	2096.6	2104.5	2124.4	2128.3	2130.3
20°	1916.3	2011.4	2049.0	2055.0	2064.9	2064.9	2064.9	2074.8	2094.6	2102.6	2102.6
22.5°	1848.9	1971.8	2011.4	2015.4	2027.3	2027.3	2031.2	2045.1	2062.9	2064.9	2064.9
25°	1769.6	1928.2	1961.9	1973.7	1985.6	1991.6	1997.5	2005.5	2011.4	2009.4	2011.4
27.5°	1686.4	1872.7	1916.3	1924.2	1940.1	1946.0	1953.9	1955.9	1957.9	1963.8	1959.9
30°	1593.3	1795.4	1860.8	1868.7	1894.5	1898.4	1890.5	1894.5	1904.4	1908.4	1912.3
32.5°	1488.2	1680.5	1803.3	1821.2	1844.9	1833.0	1831.1	1837.0	1852.9	1852.9	1856.8
35°	1345.6	1591.3	1749.8	1765.7	1783.5	1769.6	1777.6	1779.5	1789.4	1795.4	1793.4
37.5°	1189.0	1514.0	1694.3	1706.2	1720.1	1702.3	1714.1	1720.1	1728.0	1724.1	1724.1
40°	1050.3	1393.1	1628.9	1636.9	1648.8	1634.9	1646.8	1650.7	1654.7	1650.7	1648.8
42.5°	947.2	1260.3	1559.6	1569.5	1561.6	1571.5	1575.4	1583.4	1577.4	1569.5	1569.5
45°	868.0	1224.7	1484.3	1496.2	1484.3	1500.1	1506.1	1506.1	1488.2	1484.3	1482.3
47.5°	842.2	1153.3	1409.0	1409.0	1403.0	1422.8	1432.7	1418.9	1401.0	1395.1	1395.1
50°	840.2	1074.1	1305.9	1298.0	1325.7	1349.5	1339.6	1325.7	1311.9	1290.1	1290.1
52.5°	762.9	977.0	1173.1	1202.9	1246.5	1260.3	1244.5	1230.6	1206.8	1196.9	1189.0
55°	707.5	875.9	1052.3	1111.7	1157.3	1175.1	1145.4	1131.5	1095.9	1089.9	1086.0
57.5°	695.6	729.3	941.3	1016.6	1072.1	1070.1	1052.3	1026.5	996.8	990.8	988.9
60°	638.1	527.1	822.4	911.6	969.0	963.1	947.2	923.5	895.7	891.8	887.8
62.5°	578.6	382.5	687.6	788.7	870.0	868.0	854.1	818.4	798.6	788.7	780.8
65°	491.5	321.0	489.5	655.9	772.9	776.8	747.1	721.3	699.5	687.6	685.7
67.5°	374.5	261.6	330.9	546.9	679.7	675.8	638.1	626.2	598.5	592.5	580.6
70°	277.4	174.4	229.9	443.9	588.6	578.6	548.9	535.1	509.3	495.4	487.5
72.5°	229.9	140.7	168.4	344.8	495.4	483.5	457.8	441.9	420.1	408.2	400.3
75°	186.3	148.6	128.8	255.6	402.3	394.4	370.6	354.7	336.9	321.0	323.0
77.5°	136.7	138.7	103.0	188.3	319.0	307.2	293.3	273.5	265.5	249.7	249.7
80°	103.0	109.0	77.3	128.8	229.9	229.9	218.0	204.1	190.2	182.3	182.3
82.5°	69.4	69.4	57.5	81.2	156.6	150.6	142.7	138.7	130.8	126.8	126.8
85°	31.7	39.6	35.7	49.5	85.2	89.2	89.2	85.2	83.2	79.3	81.2
87.5°	9.9	17.8	21.8	27.7	43.6	45.6	47.6	47.6	47.6	49.5	49.5
90°	3.1	5.6	8.1	8.7	13.6	20.2	23.5	20.9	15.6	11.7	11.7
92.5°	12.4	33.4	54.4	59.7	83.9	116.2	132.3	115.9	83.2	58.7	56.4
95°	29.7	68.1	106.6	116.2	206.4	326.7	386.8	345.2	261.9	199.4	192.3
97.5°	51.3	85.3	119.2	127.7	278.1	478.6	578.8	552.5	499.8	460.3	446.8
100°	68.0	98.8	129.6	137.3	304.1	526.6	637.8	639.7	643.6	646.5	630.5
102.5°	82.2	111.0	139.7	146.9	316.1	541.7	654.5	688.0	755.1	805.4	791.7
105°	106.4	130.7	155.0	161.1	324.9	543.4	652.6	727.8	878.1	990.9	983.5
107.5°	131.1	153.8	176.4	182.1	326.6	519.2	615.5	720.3	930.0	1087.3	1089.1
110°	147.8	168.2	188.7	193.8	324.1	497.8	584.6	701.8	936.3	1112.1	1119.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	164.2	183.7	203.2	208.1	324.2	479.1	556.5	676.5	916.4	1096.3	1108.1
115°	188.9	206.9	224.9	229.4	327.2	457.6	522.8	638.4	869.5	1042.8	1059.2
117.5°	213.3	229.7	246.0	250.1	333.3	444.2	499.6	603.9	812.5	968.9	987.1
120°	227.5	242.9	258.3	262.2	338.2	439.6	490.3	585.6	776.2	919.1	936.8
122.5°	241.5	257.0	272.5	276.4	345.3	437.2	483.2	569.0	740.7	869.4	886.8
125°	262.8	276.9	291.1	294.6	354.9	435.3	475.5	548.4	694.2	803.5	819.5
127.5°	280.1	294.4	308.7	312.3	364.5	434.2	469.0	531.6	656.7	750.6	764.1
130°	289.4	304.8	320.2	324.0	371.5	434.8	466.5	522.2	633.7	717.3	729.8
132.5°	299.0	314.4	329.8	333.6	377.2	435.3	464.4	514.3	614.0	688.8	700.0
135°	313.2	327.2	341.2	344.7	383.4	434.9	460.7	502.5	586.0	648.6	658.3
137.5°	327.7	341.6	355.4	358.9	392.6	437.5	460.0	495.3	565.9	618.9	626.8
140°	339.8	352.6	365.3	368.5	398.3	438.0	457.9	488.4	549.4	595.1	602.5
142.5°	349.0	360.8	372.6	375.6	403.0	439.6	457.9	484.7	538.2	578.4	584.8
145°	363.3	373.6	383.9	386.5	409.3	439.6	454.8	476.7	520.5	553.4	558.2
147.5°	377.5	387.5	397.6	400.1	418.3	442.6	454.8	472.0	506.5	532.4	536.4
150°	386.8	395.9	404.9	407.2	423.1	444.2	454.8	469.4	498.5	520.3	523.5
152.5°	396.3	403.2	410.1	411.8	426.1	445.2	454.8	467.2	492.1	510.7	513.1
155°	410.6	415.7	420.7	422.0	432.9	447.5	454.8	464.7	484.5	499.3	500.9
157.5°	421.1	426.0	431.0	432.2	439.7	449.8	454.8	462.5	477.9	489.4	490.5
160°	428.2	432.0	435.8	436.8	442.8	450.8	454.8	461.4	474.6	484.5	485.1
162.5°	435.3	438.2	441.1	441.8	446.1	451.9	454.8	460.4	471.5	479.8	480.4
165°	443.0	445.6	448.2	448.9	450.9	453.5	454.8	458.8	466.7	472.7	473.4
167.5°	450.1	451.3	452.6	452.9	454.6	456.8	457.9	460.5	465.7	469.6	469.9
170°	454.8	456.0	457.3	457.6	457.7	457.8	457.9	460.5	465.7	469.6	469.6
172.5°	457.3	457.6	457.8	457.9	457.9	457.9	457.9	459.9	464.0	467.1	466.9
175°	460.7	460.7	460.7	460.7	459.8	458.5	457.9	459.2	461.8	463.7	463.7
177.5°	460.7	460.7	460.7	460.7	460.0	459.0	458.5	459.5	461.6	463.1	462.8
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6
2.5°	2148.1	2142.2	2148.1	2144.2	2146.2	2140.2	2122.4	2116.4	2122.4	2128.3	2128.3
5°	2173.9	2169.9	2173.9	2173.9	2171.9	2167.9	2148.1	2144.2	2148.1	2150.1	2146.2
7.5°	2181.8	2175.9	2181.8	2177.9	2177.9	2173.9	2154.1	2150.1	2152.1	2158.0	2152.1
10°	2181.8	2175.9	2181.8	2179.8	2177.9	2173.9	2154.1	2146.2	2146.2	2152.1	2146.2
12.5°	2171.9	2167.9	2171.9	2167.9	2167.9	2164.0	2144.2	2136.2	2138.2	2140.2	2132.3
15°	2156.1	2150.1	2156.1	2152.1	2154.1	2148.1	2126.3	2118.4	2118.4	2122.4	2108.5
17.5°	2132.3	2124.4	2132.3	2130.3	2128.3	2124.4	2104.5	2096.6	2094.6	2096.6	2086.7
20°	2104.5	2098.6	2104.5	2102.6	2102.6	2094.6	2074.8	2064.9	2064.9	2064.9	2055.0
22.5°	2060.9	2055.0	2060.9	2064.9	2064.9	2062.9	2045.1	2031.2	2027.3	2027.3	2015.4
25°	2011.4	2005.5	2011.4	2011.4	2009.4	2011.4	2005.5	1997.5	1991.6	1985.6	1973.7
27.5°	1963.8	1959.9	1963.8	1959.9	1963.8	1957.9	1955.9	1953.9	1946.0	1940.1	1924.2
30°	1916.3	1912.3	1916.3	1912.3	1908.4	1904.4	1894.5	1890.5	1898.4	1894.5	1868.7
32.5°	1856.8	1852.9	1856.8	1856.8	1852.9	1852.9	1837.0	1831.1	1833.0	1844.9	1821.2
35°	1795.4	1789.4	1795.4	1793.4	1795.4	1789.4	1779.5	1777.6	1769.6	1783.5	1765.7
37.5°	1724.1	1718.1	1724.1	1724.1	1724.1	1728.0	1720.1	1714.1	1702.3	1720.1	1706.2
40°	1650.7	1642.8	1650.7	1648.8	1650.7	1654.7	1650.7	1646.8	1634.9	1648.8	1636.9
42.5°	1567.5	1565.5	1567.5	1569.5	1569.5	1577.4	1583.4	1575.4	1571.5	1561.6	1569.5
45°	1478.3	1474.4	1478.3	1482.3	1484.3	1488.2	1506.1	1506.1	1500.1	1484.3	1496.2
47.5°	1383.2	1373.3	1383.2	1395.1	1395.1	1401.0	1418.9	1432.7	1422.8	1403.0	1409.0
50°	1282.1	1284.1	1282.1	1290.1	1290.1	1311.9	1325.7	1339.6	1349.5	1325.7	1298.0
52.5°	1183.1	1181.1	1183.1	1189.0	1196.9	1206.8	1230.6	1244.5	1260.3	1246.5	1202.9
55°	1084.0	1087.9	1084.0	1086.0	1089.9	1095.9	1131.5	1145.4	1175.1	1157.3	1111.7
57.5°	984.9	978.9	984.9	988.9	990.8	996.8	1026.5	1052.3	1070.1	1072.1	1016.6
60°	870.0	862.0	870.0	887.8	891.8	895.7	923.5	947.2	963.1	969.0	911.6
62.5°	768.9	755.0	768.9	780.8	788.7	798.6	818.4	854.1	868.0	870.0	788.7
65°	661.9	655.9	661.9	685.7	687.6	699.5	721.3	747.1	776.8	772.9	655.9
67.5°	564.8	564.8	564.8	580.6	592.5	598.5	626.2	638.1	675.8	679.7	546.9
70°	475.6	473.6	475.6	487.5	495.4	509.3	535.1	548.9	578.6	588.6	443.9
72.5°	390.4	388.4	390.4	400.3	408.2	420.1	441.9	457.8	483.5	495.4	344.8
75°	315.1	311.1	315.1	323.0	321.0	336.9	354.7	370.6	394.4	402.3	255.6
77.5°	241.8	241.8	241.8	249.7	249.7	265.5	273.5	293.3	307.2	319.0	188.3
80°	180.3	178.4	180.3	182.3	182.3	190.2	204.1	218.0	229.9	229.9	128.8
82.5°	126.8	122.9	126.8	126.8	126.8	130.8	138.7	142.7	150.6	156.6	81.2
85°	79.3	79.3	79.3	81.2	79.3	83.2	85.2	89.2	89.2	85.2	49.5
87.5°	51.5	49.5	51.5	49.5	49.5	47.6	47.6	47.6	45.6	43.6	27.7
90°	11.7	11.7	11.7	11.7	11.7	15.6	20.9	23.5	20.2	13.6	8.7
92.5°	47.0	37.7	47.0	56.4	58.7	83.2	115.9	132.3	116.2	83.9	59.7
95°	164.0	135.7	164.0	192.3	199.4	261.9	345.2	386.8	326.7	206.4	116.2
97.5°	393.0	339.2	393.0	446.8	460.3	499.8	552.5	578.8	478.6	278.1	127.7
100°	566.3	502.1	566.3	630.5	646.5	643.6	639.7	637.8	526.6	304.1	137.3
102.5°	736.7	681.7	736.7	791.7	805.4	755.1	688.0	654.5	541.7	316.1	146.9
105°	954.0	924.4	954.0	983.5	990.9	878.1	727.8	652.6	543.4	324.9	161.1
107.5°	1096.2	1103.4	1096.2	1089.1	1087.3	930.0	720.3	615.5	519.2	326.6	182.1
110°	1150.5	1181.3	1150.5	1119.8	1112.1	936.3	701.8	584.6	497.8	324.1	193.8



TEST NUMBER: P934415

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1155.4	1202.6	1155.4	1108.1	1096.3	916.4	676.5	556.5	479.1	324.2	208.1
115°	1124.7	1190.3	1124.7	1059.2	1042.8	869.5	638.4	522.8	457.6	327.2	229.4
117.5°	1059.8	1132.5	1059.8	987.1	968.9	812.5	603.9	499.6	444.2	333.3	250.1
120°	1007.4	1078.1	1007.4	936.8	919.1	776.2	585.6	490.3	439.6	338.2	262.2
122.5°	956.5	1026.1	956.5	886.8	869.4	740.7	569.0	483.2	437.2	345.3	276.4
125°	883.7	947.9	883.7	819.5	803.5	694.2	548.4	475.5	435.3	354.9	294.6
127.5°	818.3	872.5	818.3	764.1	750.6	656.7	531.6	469.0	434.2	364.5	312.3
130°	779.8	829.8	779.8	729.8	717.3	633.7	522.2	466.5	434.8	371.5	324.0
132.5°	744.8	789.6	744.8	700.0	688.8	614.0	514.3	464.4	435.3	377.2	333.6
135°	696.9	735.5	696.9	658.3	648.6	586.0	502.5	460.7	434.9	383.4	344.7
137.5°	658.5	690.1	658.5	626.8	618.9	565.9	495.3	460.0	437.5	392.6	358.9
140°	632.0	661.6	632.0	602.5	595.1	549.4	488.4	457.9	438.0	398.3	368.5
142.5°	610.2	635.6	610.2	584.8	578.4	538.2	484.7	457.9	439.6	403.0	375.6
145°	577.5	596.7	577.5	558.2	553.4	520.5	476.7	454.8	439.6	409.3	386.5
147.5°	552.3	568.2	552.3	536.4	532.4	506.5	472.0	454.8	442.6	418.3	400.1
150°	536.5	549.4	536.5	523.5	520.3	498.5	469.4	454.8	444.2	423.1	407.2
152.5°	522.9	532.7	522.9	513.1	510.7	492.1	467.2	454.8	445.2	426.1	411.8
155°	507.4	513.8	507.4	500.9	499.3	484.5	464.7	454.8	447.5	432.9	422.0
157.5°	495.1	499.6	495.1	490.5	489.4	477.9	462.5	454.8	449.8	439.7	432.2
160°	487.7	490.3	487.7	485.1	484.5	474.6	461.4	454.8	450.8	442.8	436.8
162.5°	482.9	485.4	482.9	480.4	479.8	471.5	460.4	454.8	451.9	446.1	441.8
165°	476.0	478.6	476.0	473.4	472.7	466.7	458.8	454.8	453.5	450.9	448.9
167.5°	471.0	472.1	471.0	469.9	469.6	465.7	460.5	457.9	456.8	454.6	452.9
170°	469.6	469.6	469.6	469.6	469.6	465.7	460.5	457.9	457.8	457.7	457.6
172.5°	465.9	465.0	465.9	466.9	467.1	464.0	459.9	457.9	457.9	457.9	457.9
175°	463.7	463.7	463.7	463.7	463.7	461.8	459.2	457.9	458.5	459.8	460.7
177.5°	461.8	460.7	461.8	462.8	463.1	461.6	459.5	458.5	459.0	460.0	460.7
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



TEST NUMBER: P934415
 CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6
2.5°	2124.4	2112.5	2112.5	2092.6	2084.7	2078.8	2068.9	2039.1	2031.2	2023.3	2035.2
5°	2142.2	2120.4	2104.5	2068.9	2039.1	2027.3	1989.6	1918.3	1870.7	1835.0	1815.2
7.5°	2146.2	2118.4	2088.7	2033.2	1961.9	1930.1	1815.2	1684.4	1648.8	1617.0	1597.2
10°	2142.2	2110.5	2068.9	1985.6	1817.2	1761.7	1646.8	1561.6	1539.8	1533.8	1539.8
12.5°	2128.3	2098.6	2041.1	1902.4	1666.6	1628.9	1561.6	1512.0	1508.1	1518.0	1571.5
15°	2104.5	2076.8	2009.4	1791.4	1583.4	1555.6	1508.1	1490.2	1512.0	1581.4	1741.9
17.5°	2080.8	2049.0	1965.8	1682.4	1519.9	1500.1	1466.4	1502.1	1625.0	1718.1	1771.6
20°	2049.0	2011.4	1916.3	1603.2	1474.4	1456.5	1440.7	1601.2	1694.3	1728.0	1757.7
22.5°	2011.4	1971.8	1848.9	1547.7	1426.8	1412.9	1422.8	1656.7	1694.3	1718.1	1743.9
25°	1961.9	1928.2	1769.6	1504.1	1389.2	1373.3	1411.0	1650.7	1672.5	1678.5	1730.0
27.5°	1916.3	1872.7	1686.4	1464.5	1343.6	1337.6	1420.9	1625.0	1640.8	1646.8	1702.3
30°	1860.8	1795.4	1593.3	1422.8	1296.0	1294.0	1422.8	1593.3	1589.3	1605.2	1660.6
32.5°	1803.3	1680.5	1488.2	1371.3	1250.4	1248.5	1409.0	1545.7	1541.7	1563.5	1605.2
35°	1749.8	1591.3	1345.6	1311.9	1193.0	1194.9	1375.3	1490.2	1492.2	1512.0	1537.8
37.5°	1694.3	1514.0	1189.0	1246.5	1137.5	1137.5	1329.7	1438.7	1434.7	1440.7	1476.3
40°	1628.9	1393.1	1050.3	1161.3	1086.0	1080.0	1274.2	1383.2	1369.3	1367.4	1416.9
42.5°	1559.6	1260.3	947.2	1048.3	1026.5	1018.6	1206.8	1315.8	1290.1	1296.0	1359.4
45°	1484.3	1224.7	868.0	885.8	965.1	959.1	1133.5	1238.5	1220.7	1236.6	1302.0
47.5°	1409.0	1153.3	842.2	735.2	899.7	897.7	1052.3	1163.2	1153.3	1169.2	1238.5
50°	1305.9	1074.1	840.2	630.2	826.4	834.3	955.2	1089.9	1089.9	1103.8	1177.1
52.5°	1173.1	977.0	762.9	570.7	741.1	764.9	870.0	1026.5	1030.5	1044.3	1109.7
55°	1052.3	875.9	707.5	525.1	640.1	691.6	786.7	961.1	969.0	982.9	1042.4
57.5°	941.3	729.3	695.6	471.6	546.9	596.5	713.4	897.7	901.7	913.6	971.0
60°	822.4	527.1	638.1	414.2	465.7	503.3	646.0	822.4	836.3	844.2	893.7
62.5°	687.6	382.5	578.6	374.5	426.1	434.0	590.5	751.1	768.9	774.8	804.6
65°	489.5	321.0	491.5	340.8	384.4	386.4	531.1	677.7	693.6	703.5	725.3
67.5°	330.9	261.6	374.5	309.1	352.7	354.7	473.6	592.5	614.3	622.2	636.1
70°	229.9	174.4	277.4	275.5	317.1	321.0	412.2	515.2	535.1	541.0	548.9
72.5°	168.4	140.7	229.9	247.7	279.4	283.4	348.8	428.0	447.9	453.8	457.8
75°	128.8	148.6	186.3	216.0	237.8	239.8	285.4	348.8	362.6	366.6	368.6
77.5°	103.0	138.7	136.7	174.4	194.2	190.2	223.9	269.5	281.4	281.4	281.4
80°	77.3	109.0	103.0	124.8	142.7	138.7	160.5	192.2	196.2	200.1	198.2
82.5°	57.5	69.4	69.4	79.3	95.1	91.2	107.0	124.8	124.8	124.8	128.8
85°	35.7	39.6	31.7	41.6	53.5	51.5	59.5	67.4	69.4	69.4	65.4
87.5°	21.8	17.8	9.9	15.9	23.8	23.8	27.7	29.7	27.7	27.7	27.7
90°	8.1	5.6	3.1	5.6	8.1	8.7	13.6	20.2	23.5	20.9	15.6
92.5°	54.4	33.4	12.4	33.4	54.4	59.7	83.9	116.2	132.3	115.9	83.2
95°	106.6	68.1	29.7	68.1	106.6	116.2	206.4	326.7	386.8	345.2	261.9
97.5°	119.2	85.3	51.3	85.3	119.2	127.7	278.1	478.6	578.8	552.5	499.8
100°	129.6	98.8	68.0	98.8	129.6	137.3	304.1	526.6	637.8	639.7	643.6
102.5°	139.7	111.0	82.2	111.0	139.7	146.9	316.1	541.7	654.5	688.0	755.1
105°	155.0	130.7	106.4	130.7	155.0	161.1	324.9	543.4	652.6	727.8	878.1
107.5°	176.4	153.8	131.1	153.8	176.4	182.1	326.6	519.2	615.5	720.3	930.0
110°	188.7	168.2	147.8	168.2	188.7	193.8	324.1	497.8	584.6	701.8	936.3



TEST NUMBER: P934415

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	203.2	183.7	164.2	183.7	203.2	208.1	324.2	479.1	556.5	676.5	916.4
115°	224.9	206.9	188.9	206.9	224.9	229.4	327.2	457.6	522.8	638.4	869.5
117.5°	246.0	229.7	213.3	229.7	246.0	250.1	333.3	444.2	499.6	603.9	812.5
120°	258.3	242.9	227.5	242.9	258.3	262.2	338.2	439.6	490.3	585.6	776.2
122.5°	272.5	257.0	241.5	257.0	272.5	276.4	345.3	437.2	483.2	569.0	740.7
125°	291.1	276.9	262.8	276.9	291.1	294.6	354.9	435.3	475.5	548.4	694.2
127.5°	308.7	294.4	280.1	294.4	308.7	312.3	364.5	434.2	469.0	531.6	656.7
130°	320.2	304.8	289.4	304.8	320.2	324.0	371.5	434.8	466.5	522.2	633.7
132.5°	329.8	314.4	299.0	314.4	329.8	333.6	377.2	435.3	464.4	514.3	614.0
135°	341.2	327.2	313.2	327.2	341.2	344.7	383.4	434.9	460.7	502.5	586.0
137.5°	355.4	341.6	327.7	341.6	355.4	358.9	392.6	437.5	460.0	495.3	565.9
140°	365.3	352.6	339.8	352.6	365.3	368.5	398.3	438.0	457.9	488.4	549.4
142.5°	372.6	360.8	349.0	360.8	372.6	375.6	403.0	439.6	457.9	484.7	538.2
145°	383.9	373.6	363.3	373.6	383.9	386.5	409.3	439.6	454.8	476.7	520.5
147.5°	397.6	387.5	377.5	387.5	397.6	400.1	418.3	442.6	454.8	472.0	506.5
150°	404.9	395.9	386.8	395.9	404.9	407.2	423.1	444.2	454.8	469.4	498.5
152.5°	410.1	403.2	396.3	403.2	410.1	411.8	426.1	445.2	454.8	467.2	492.1
155°	420.7	415.7	410.6	415.7	420.7	422.0	432.9	447.5	454.8	464.7	484.5
157.5°	431.0	426.0	421.1	426.0	431.0	432.2	439.7	449.8	454.8	462.5	477.9
160°	435.8	432.0	428.2	432.0	435.8	436.8	442.8	450.8	454.8	461.4	474.6
162.5°	441.1	438.2	435.3	438.2	441.1	441.8	446.1	451.9	454.8	460.4	471.5
165°	448.2	445.6	443.0	445.6	448.2	448.9	450.9	453.5	454.8	458.8	466.7
167.5°	452.6	451.3	450.1	451.3	452.6	452.9	454.6	456.8	457.9	460.5	465.7
170°	457.3	456.0	454.8	456.0	457.3	457.6	457.7	457.8	457.9	460.5	465.7
172.5°	457.8	457.6	457.3	457.6	457.8	457.9	457.9	457.9	457.9	459.9	464.0
175°	460.7	460.7	460.7	460.7	460.7	460.7	459.8	458.5	457.9	459.2	461.8
177.5°	460.7	460.7	460.7	460.7	460.7	460.7	460.0	459.0	458.5	459.5	461.6
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



TEST NUMBER: P934415

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6	2094.6
2.5°	2021.3	2015.4	2023.3	2001.5	2023.3	2015.4	2021.3	2035.2	2023.3	2031.2	2039.1
5°	1773.6	1763.7	1732.0	1706.2	1732.0	1763.7	1773.6	1815.2	1835.0	1870.7	1918.3
7.5°	1585.3	1577.4	1569.5	1553.6	1569.5	1577.4	1585.3	1597.2	1617.0	1648.8	1684.4
10°	1543.7	1545.7	1557.6	1555.6	1557.6	1545.7	1543.7	1539.8	1533.8	1539.8	1561.6
12.5°	1650.7	1668.6	1734.0	1730.0	1734.0	1668.6	1650.7	1571.5	1518.0	1508.1	1512.0
15°	1773.6	1779.5	1793.4	1795.4	1793.4	1779.5	1773.6	1741.9	1581.4	1512.0	1490.2
17.5°	1785.5	1787.5	1797.4	1797.4	1797.4	1787.5	1785.5	1771.6	1718.1	1625.0	1502.1
20°	1775.6	1779.5	1799.4	1803.3	1799.4	1779.5	1775.6	1757.7	1728.0	1694.3	1601.2
22.5°	1771.6	1779.5	1795.4	1793.4	1795.4	1779.5	1771.6	1743.9	1718.1	1694.3	1656.7
25°	1751.8	1751.8	1753.8	1755.8	1753.8	1751.8	1751.8	1730.0	1678.5	1672.5	1650.7
27.5°	1710.2	1714.1	1726.0	1724.1	1726.0	1714.1	1710.2	1702.3	1646.8	1640.8	1625.0
30°	1672.5	1668.6	1658.7	1650.7	1658.7	1668.6	1672.5	1660.6	1605.2	1589.3	1593.3
32.5°	1609.1	1599.2	1589.3	1583.4	1589.3	1599.2	1609.1	1605.2	1563.5	1541.7	1545.7
35°	1533.8	1535.8	1533.8	1527.9	1533.8	1535.8	1533.8	1537.8	1512.0	1492.2	1490.2
37.5°	1480.3	1484.3	1482.3	1474.4	1482.3	1484.3	1480.3	1476.3	1440.7	1434.7	1438.7
40°	1424.8	1426.8	1424.8	1418.9	1424.8	1426.8	1424.8	1416.9	1367.4	1369.3	1383.2
42.5°	1371.3	1369.3	1363.4	1359.4	1363.4	1369.3	1371.3	1359.4	1296.0	1290.1	1315.8
45°	1309.9	1311.9	1300.0	1294.0	1300.0	1311.9	1309.9	1302.0	1236.6	1220.7	1238.5
47.5°	1248.5	1248.5	1238.5	1232.6	1238.5	1248.5	1248.5	1238.5	1169.2	1153.3	1163.2
50°	1183.1	1181.1	1167.2	1165.2	1167.2	1181.1	1183.1	1177.1	1103.8	1089.9	1089.9
52.5°	1107.8	1107.8	1109.7	1113.7	1109.7	1107.8	1107.8	1109.7	1044.3	1030.5	1026.5
55°	1042.4	1044.3	1058.2	1062.2	1058.2	1044.3	1042.4	1042.4	982.9	969.0	961.1
57.5°	975.0	975.0	984.9	984.9	984.9	975.0	975.0	971.0	913.6	901.7	897.7
60°	897.7	901.7	909.6	907.6	909.6	901.7	897.7	893.7	844.2	836.3	822.4
62.5°	816.4	820.4	822.4	818.4	822.4	820.4	816.4	804.6	774.8	768.9	751.1
65°	731.2	735.2	737.2	733.2	737.2	735.2	731.2	725.3	703.5	693.6	677.7
67.5°	644.0	642.1	640.1	648.0	640.1	642.1	644.0	636.1	622.2	614.3	592.5
70°	554.9	554.9	552.9	556.8	552.9	554.9	554.9	548.9	541.0	535.1	515.2
72.5°	459.7	457.8	465.7	459.7	465.7	457.8	459.7	457.8	453.8	447.9	428.0
75°	366.6	370.6	366.6	372.6	366.6	370.6	366.6	368.6	366.6	362.6	348.8
77.5°	279.4	283.4	279.4	279.4	279.4	283.4	279.4	281.4	281.4	281.4	269.5
80°	198.2	196.2	196.2	194.2	196.2	196.2	198.2	198.2	200.1	196.2	192.2
82.5°	126.8	124.8	124.8	128.8	124.8	124.8	126.8	128.8	124.8	124.8	124.8
85°	69.4	71.3	67.4	67.4	67.4	71.3	69.4	65.4	69.4	69.4	67.4
87.5°	25.8	23.8	23.8	23.8	23.8	23.8	25.8	27.7	27.7	27.7	29.7
90°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	15.6	20.9	23.5	20.2
92.5°	58.7	56.4	47.0	37.7	47.0	56.4	58.7	83.2	115.9	132.3	116.2
95°	199.4	192.3	164.0	135.7	164.0	192.3	199.4	261.9	345.2	386.8	326.7
97.5°	460.3	446.8	393.0	339.2	393.0	446.8	460.3	499.8	552.5	578.8	478.6
100°	646.5	630.5	566.3	502.1	566.3	630.5	646.5	643.6	639.7	637.8	526.6
102.5°	805.4	791.7	736.7	681.7	736.7	791.7	805.4	755.1	688.0	654.5	541.7
105°	990.9	983.5	954.0	924.4	954.0	983.5	990.9	878.1	727.8	652.6	543.4
107.5°	1087.3	1089.1	1096.2	1103.4	1096.2	1089.1	1087.3	930.0	720.3	615.5	519.2
110°	1112.1	1119.8	1150.5	1181.3	1150.5	1119.8	1112.1	936.3	701.8	584.6	497.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1096.3	1108.1	1155.4	1202.6	1155.4	1108.1	1096.3	916.4	676.5	556.5	479.1
115°	1042.8	1059.2	1124.7	1190.3	1124.7	1059.2	1042.8	869.5	638.4	522.8	457.6
117.5°	968.9	987.1	1059.8	1132.5	1059.8	987.1	968.9	812.5	603.9	499.6	444.2
120°	919.1	936.8	1007.4	1078.1	1007.4	936.8	919.1	776.2	585.6	490.3	439.6
122.5°	869.4	886.8	956.5	1026.1	956.5	886.8	869.4	740.7	569.0	483.2	437.2
125°	803.5	819.5	883.7	947.9	883.7	819.5	803.5	694.2	548.4	475.5	435.3
127.5°	750.6	764.1	818.3	872.5	818.3	764.1	750.6	656.7	531.6	469.0	434.2
130°	717.3	729.8	779.8	829.8	779.8	729.8	717.3	633.7	522.2	466.5	434.8
132.5°	688.8	700.0	744.8	789.6	744.8	700.0	688.8	614.0	514.3	464.4	435.3
135°	648.6	658.3	696.9	735.5	696.9	658.3	648.6	586.0	502.5	460.7	434.9
137.5°	618.9	626.8	658.5	690.1	658.5	626.8	618.9	565.9	495.3	460.0	437.5
140°	595.1	602.5	632.0	661.6	632.0	602.5	595.1	549.4	488.4	457.9	438.0
142.5°	578.4	584.8	610.2	635.6	610.2	584.8	578.4	538.2	484.7	457.9	439.6
145°	553.4	558.2	577.5	596.7	577.5	558.2	553.4	520.5	476.7	454.8	439.6
147.5°	532.4	536.4	552.3	568.2	552.3	536.4	532.4	506.5	472.0	454.8	442.6
150°	520.3	523.5	536.5	549.4	536.5	523.5	520.3	498.5	469.4	454.8	444.2
152.5°	510.7	513.1	522.9	532.7	522.9	513.1	510.7	492.1	467.2	454.8	445.2
155°	499.3	500.9	507.4	513.8	507.4	500.9	499.3	484.5	464.7	454.8	447.5
157.5°	489.4	490.5	495.1	499.6	495.1	490.5	489.4	477.9	462.5	454.8	449.8
160°	484.5	485.1	487.7	490.3	487.7	485.1	484.5	474.6	461.4	454.8	450.8
162.5°	479.8	480.4	482.9	485.4	482.9	480.4	479.8	471.5	460.4	454.8	451.9
165°	472.7	473.4	476.0	478.6	476.0	473.4	472.7	466.7	458.8	454.8	453.5
167.5°	469.6	469.9	471.0	472.1	471.0	469.9	469.6	465.7	460.5	457.9	456.8
170°	469.6	469.6	469.6	469.6	469.6	469.6	469.6	465.7	460.5	457.9	457.8
172.5°	467.1	466.9	465.9	465.0	465.9	466.9	467.1	464.0	459.9	457.9	457.9
175°	463.7	463.7	463.7	463.7	463.7	463.7	463.7	461.8	459.2	457.9	458.5
177.5°	463.1	462.8	461.8	460.7	461.8	462.8	463.1	461.6	459.5	458.5	459.0
180°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2094.6	2094.6	2094.6	2094.6	2094.6
2.5°	2068.9	2078.8	2084.7	2092.6	2112.5
5°	1989.6	2027.3	2039.1	2068.9	2104.5
7.5°	1815.2	1930.1	1961.9	2033.2	2088.7
10°	1646.8	1761.7	1817.2	1985.6	2068.9
12.5°	1561.6	1628.9	1666.6	1902.4	2041.1
15°	1508.1	1555.6	1583.4	1791.4	2009.4
17.5°	1466.4	1500.1	1519.9	1682.4	1965.8
20°	1440.7	1456.5	1474.4	1603.2	1916.3
22.5°	1422.8	1412.9	1426.8	1547.7	1848.9
25°	1411.0	1373.3	1389.2	1504.1	1769.6
27.5°	1420.9	1337.6	1343.6	1464.5	1686.4
30°	1422.8	1294.0	1296.0	1422.8	1593.3
32.5°	1409.0	1248.5	1250.4	1371.3	1488.2
35°	1375.3	1194.9	1193.0	1311.9	1345.6
37.5°	1329.7	1137.5	1137.5	1246.5	1189.0
40°	1274.2	1080.0	1086.0	1161.3	1050.3
42.5°	1206.8	1018.6	1026.5	1048.3	947.2
45°	1133.5	959.1	965.1	885.8	868.0
47.5°	1052.3	897.7	899.7	735.2	842.2
50°	955.2	834.3	826.4	630.2	840.2
52.5°	870.0	764.9	741.1	570.7	762.9
55°	786.7	691.6	640.1	525.1	707.5
57.5°	713.4	596.5	546.9	471.6	695.6
60°	646.0	503.3	465.7	414.2	638.1
62.5°	590.5	434.0	426.1	374.5	578.6
65°	531.1	386.4	384.4	340.8	491.5
67.5°	473.6	354.7	352.7	309.1	374.5
70°	412.2	321.0	317.1	275.5	277.4
72.5°	348.8	283.4	279.4	247.7	229.9
75°	285.4	239.8	237.8	216.0	186.3
77.5°	223.9	190.2	194.2	174.4	136.7
80°	160.5	138.7	142.7	124.8	103.0
82.5°	107.0	91.2	95.1	79.3	69.4
85°	59.5	51.5	53.5	41.6	31.7
87.5°	27.7	23.8	23.8	15.9	9.9
90°	13.6	8.7	8.1	5.6	3.1
92.5°	83.9	59.7	54.4	33.4	12.4
95°	206.4	116.2	106.6	68.1	29.7
97.5°	278.1	127.7	119.2	85.3	51.3
100°	304.1	137.3	129.6	98.8	68.0
102.5°	316.1	146.9	139.7	111.0	82.2
105°	324.9	161.1	155.0	130.7	106.4
107.5°	326.6	182.1	176.4	153.8	131.1
110°	324.1	193.8	188.7	168.2	147.8



TEST NUMBER: P934415

CATALOG NUMBER: SQ4-FA-050U-100D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	324.2	208.1	203.2	183.7	164.2
115°	327.2	229.4	224.9	206.9	188.9
117.5°	333.3	250.1	246.0	229.7	213.3
120°	338.2	262.2	258.3	242.9	227.5
122.5°	345.3	276.4	272.5	257.0	241.5
125°	354.9	294.6	291.1	276.9	262.8
127.5°	364.5	312.3	308.7	294.4	280.1
130°	371.5	324.0	320.2	304.8	289.4
132.5°	377.2	333.6	329.8	314.4	299.0
135°	383.4	344.7	341.2	327.2	313.2
137.5°	392.6	358.9	355.4	341.6	327.7
140°	398.3	368.5	365.3	352.6	339.8
142.5°	403.0	375.6	372.6	360.8	349.0
145°	409.3	386.5	383.9	373.6	363.3
147.5°	418.3	400.1	397.6	387.5	377.5
150°	423.1	407.2	404.9	395.9	386.8
152.5°	426.1	411.8	410.1	403.2	396.3
155°	432.9	422.0	420.7	415.7	410.6
157.5°	439.7	432.2	431.0	426.0	421.1
160°	442.8	436.8	435.8	432.0	428.2
162.5°	446.1	441.8	441.1	438.2	435.3
165°	450.9	448.9	448.2	445.6	443.0
167.5°	454.6	452.9	452.6	451.3	450.1
170°	457.7	457.6	457.3	456.0	454.8
172.5°	457.9	457.9	457.8	457.6	457.3
175°	459.8	460.7	460.7	460.7	460.7
177.5°	460.0	460.7	460.7	460.7	460.7
180°	460.7	460.7	460.7	460.7	460.7



TEST NUMBER: P934415
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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	14.95	15.95	15.77	16.80	17.85	17.77	18.78	18.59	19.62	20.67
	3H	15.43	16.34	16.27	17.19	18.27	19.12	20.03	19.96	20.88	21.96
	4H	15.63	16.49	16.48	17.35	18.43	19.57	20.43	20.43	21.29	22.38
	6H	15.76	16.55	16.62	17.41	18.51	19.87	20.65	20.73	21.52	22.62
	8H	15.76	16.51	16.64	17.40	18.50	19.94	20.69	20.82	21.58	22.68
	12H	15.74	16.46	16.62	17.34	18.46	19.99	20.70	20.86	21.58	22.71
4H	2H	15.99	16.85	16.85	17.71	18.80	18.20	19.05	19.05	19.91	21.00
	3H	17.04	17.75	17.90	18.64	19.74	19.72	20.43	20.58	21.32	22.42
	4H	17.32	17.97	18.20	18.86	19.98	20.25	20.90	21.13	21.79	22.92
	6H	17.45	18.01	18.35	18.93	20.06	20.62	21.18	21.52	22.10	23.23
	8H	17.46	17.98	18.36	18.89	20.04	20.73	21.25	21.63	22.16	23.31
	12H	17.43	17.91	18.35	18.83	19.98	20.79	21.26	21.71	22.19	23.34
8H	4H	17.78	18.31	18.68	19.21	20.36	20.38	20.91	21.28	21.82	22.96
	6H	18.05	18.48	18.98	19.43	20.58	20.83	21.26	21.75	22.21	23.35
	8H	18.09	18.48	19.03	19.42	20.58	20.98	21.36	21.91	22.30	23.47
	12H	18.08	18.42	19.02	19.36	20.57	21.08	21.42	22.02	22.36	23.57
12H	4H	17.80	18.27	18.71	19.19	20.34	20.36	20.83	21.27	21.76	22.91
	6H	18.11	18.50	19.05	19.44	20.60	20.82	21.21	21.76	22.15	23.31
	8H	18.19	18.52	19.12	19.46	20.67	20.99	21.33	21.93	22.26	23.48