

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: P934923

Luminaire Tested: SQ4-FA-075U-125D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934923
REPORT IS A COMBINATION OF REPORTS P933719 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

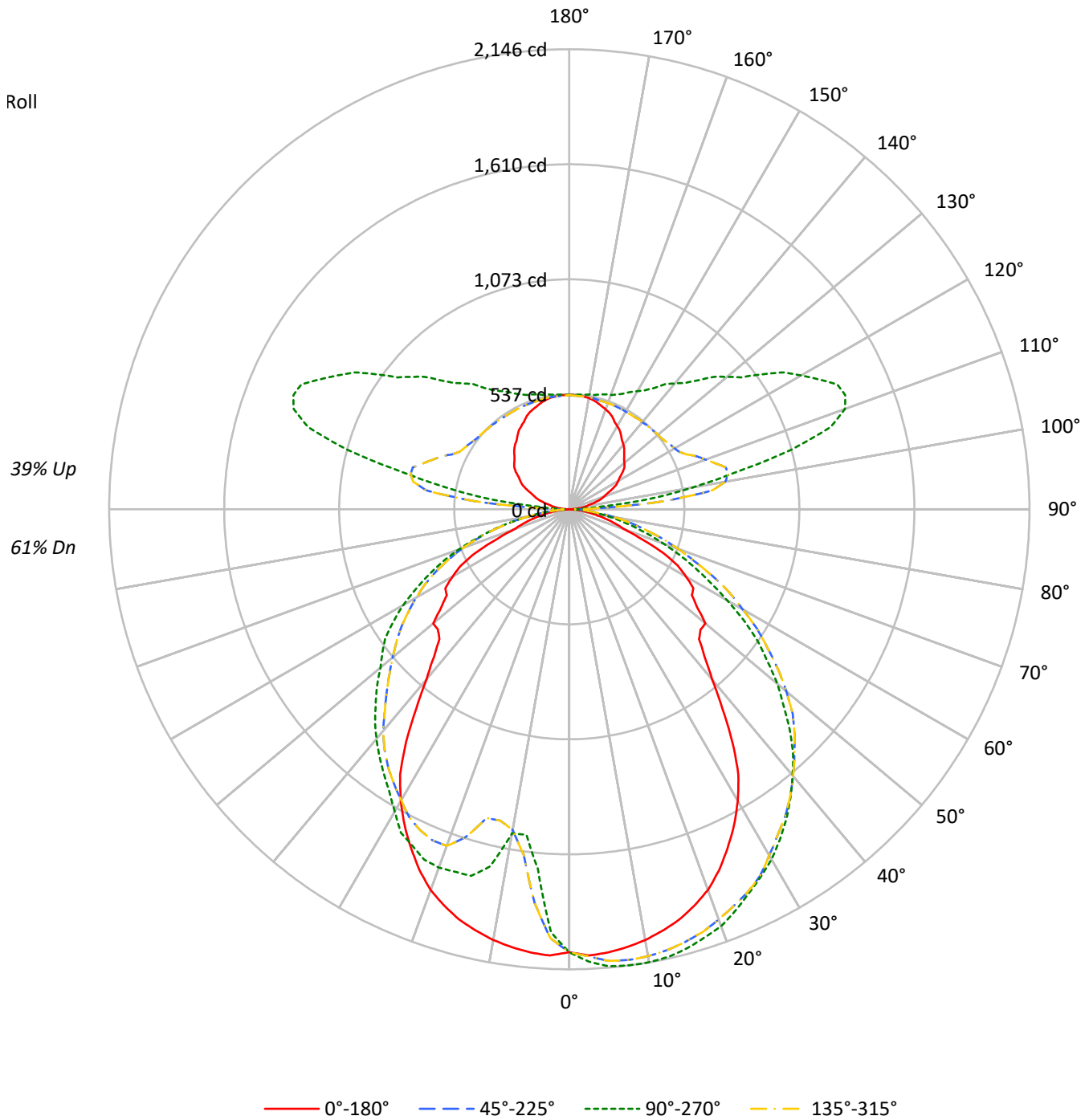
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8816.5 lumens
Efficiency: N/A
Efficacy: 94.8 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): 93
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				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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	56	56	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	52	49	47	47	47	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	40	40	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	35	35	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	30	30	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	33	30	33	29	26	26	26	26	24
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23	23	23	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	21	21	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	19	19	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12779	12779	12779	12779
5°	12870	12900	12870	10143
10°	12779	12707	12779	9084
15°	12635	12432	12635	10380
20°	12367	12106	12367	10403
25°	11820	11630	11820	10182
30°	11117	11235	11117	9698
35°	9906	10736	9906	9166
40°	8249	10148	8249	8764
45°	7366	9459	7366	8302
50°	7820	8638	7820	7838
55°	7350	7753	7350	7570
60°	7567	6586	7567	6933
65°	6850	5444	6850	6085
70°	4732	4338	4732	5101
75°	4134	3206	4134	3840
80°	3307	2120	3307	2308
85°	1866	1123	1866	955

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11297 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	2.1
10°-20°	529.4	6.0
20°-30°	818.4	9.3
30°-40°	977.0	11.1
40°-50°	982.7	11.1
50°-60°	855.1	9.7
60°-70°	606.3	6.9
70°-80°	320.8	3.6
80°-90°	81.9	0.9
90°-100°	260.0	2.9
100°-110°	683.7	7.8
110°-120°	708.9	8.0
120°-130°	568.6	6.4
130°-140°	446.2	5.1
140°-150°	342.4	3.9
150°-160°	246.6	2.8
160°-170°	150.9	1.7
170°-180°	51.0	0.6
0°-30°	1534.3	17.4
0°-40°	2511.3	28.5
0°-60°	4349.2	49.3
0°-90°	5358.1	60.8
90°-120°	1652.6	18.7
90°-150°	3009.8	34.1
90°-180°	3458.0	39.2
0°-180°	8816.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2066	2066	2066	2066	2066	
5°	2076	2140	2076	1683	2076	197
15°	1982	2120	1982	1771	1982	558
25°	1745	1978	1745	1732	1745	801
35°	1327	1765	1327	1507	1327	821
45°	856	1454	856	1276	856	686
55°	698	1073	698	1048	698	641
65°	485	647	485	723	485	463
75°	184	307	184	367	184	193
85°	31	78	31	66	31	42
90°	4	14	4	14	4	4
95°	34	157	34	157	34	38
105°	123	1070	123	1070	123	131
115°	219	1378	219	1378	219	216
125°	304	1098	304	1098	304	270
135°	363	852	363	852	363	281
145°	421	691	421	691	421	264
155°	476	595	476	595	476	218
165°	513	554	513	554	513	145
175°	534	537	534	537	534	51
180°	534	534	534	534	534	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	2083.3	2083.3	2095.1	2098.9	2098.9	2093.1	2087.2	2093.1	2110.7	2116.6	2114.6
5°	2075.5	2091.2	2112.6	2116.6	2120.5	2118.5	2114.6	2118.5	2138.1	2142.0	2143.9
7.5°	2059.9	2089.2	2116.6	2122.4	2128.3	2122.4	2120.5	2124.4	2143.9	2147.8	2147.8
10°	2040.3	2081.4	2112.6	2116.6	2122.4	2116.6	2116.6	2124.4	2143.9	2147.8	2149.8
12.5°	2013.0	2069.7	2098.9	2102.9	2110.7	2108.7	2106.8	2114.6	2134.1	2138.1	2138.1
15°	1981.7	2048.1	2075.5	2079.5	2093.1	2089.2	2089.2	2097.0	2118.5	2124.4	2122.4
17.5°	1938.7	2020.8	2052.0	2057.9	2067.7	2065.8	2067.7	2075.5	2095.1	2098.9	2100.9
20°	1889.9	1983.7	2020.8	2026.6	2036.4	2036.4	2036.4	2046.2	2065.8	2073.5	2073.5
22.5°	1823.4	1944.6	1983.7	1987.6	1999.3	1999.3	2003.2	2016.9	2034.5	2036.4	2036.4
25°	1745.2	1901.6	1934.8	1946.6	1958.3	1964.1	1970.0	1977.8	1983.7	1981.7	1983.7
27.5°	1663.1	1846.8	1889.9	1897.7	1913.3	1919.1	1927.0	1928.9	1930.9	1936.8	1932.9
30°	1571.3	1770.6	1835.1	1842.9	1868.3	1872.3	1864.5	1868.3	1878.1	1882.0	1886.0
32.5°	1467.7	1657.3	1778.5	1796.0	1819.5	1807.8	1805.8	1811.7	1827.3	1827.3	1831.2
35°	1327.0	1569.3	1725.7	1741.4	1758.9	1745.2	1753.1	1755.0	1764.8	1770.6	1768.7
37.5°	1172.6	1493.1	1671.0	1682.7	1696.4	1678.8	1690.5	1696.4	1704.2	1700.3	1700.3
40°	1035.8	1373.9	1606.5	1614.3	1626.0	1612.3	1624.1	1628.0	1631.9	1628.0	1626.0
42.5°	934.2	1242.9	1538.1	1547.9	1540.0	1549.8	1553.7	1561.6	1555.6	1547.9	1547.9
45°	856.0	1207.8	1463.8	1475.6	1463.8	1479.5	1485.3	1485.3	1467.7	1463.8	1461.8
47.5°	830.6	1137.4	1389.5	1389.5	1383.7	1403.2	1413.0	1399.3	1381.7	1375.8	1375.8
50°	828.7	1059.3	1287.9	1280.1	1307.5	1330.9	1321.2	1307.5	1293.8	1272.3	1272.3
52.5°	752.4	963.5	1157.0	1186.3	1229.3	1242.9	1227.3	1213.7	1190.2	1180.4	1172.6
55°	697.7	863.8	1037.7	1096.4	1141.4	1158.9	1129.6	1116.0	1080.8	1074.9	1071.0
57.5°	686.0	719.2	928.3	1002.6	1057.3	1055.4	1037.7	1012.3	983.1	977.2	975.2
60°	629.3	519.8	811.0	899.0	955.6	949.8	934.2	910.8	883.3	879.5	875.6
62.5°	570.6	377.2	678.1	777.9	857.9	856.0	842.3	807.1	787.6	777.9	770.0
65°	484.7	316.6	482.7	646.9	762.2	766.1	736.8	711.4	689.9	678.1	676.2
67.5°	369.4	258.0	326.4	539.4	670.4	666.4	629.3	617.5	590.2	584.4	572.6
70°	273.6	172.0	226.7	437.7	580.4	570.6	541.4	527.7	502.3	488.6	480.8
72.5°	226.7	138.8	166.1	340.0	488.6	476.9	451.5	435.8	414.3	402.6	394.8
75°	183.7	146.6	127.0	252.1	396.7	388.9	365.4	349.8	332.3	316.6	318.5
77.5°	134.8	136.8	101.6	185.6	314.6	302.9	289.2	269.7	261.9	246.2	246.2
80°	101.6	107.5	76.2	127.0	226.7	226.7	215.0	201.3	187.6	179.8	179.8
82.5°	68.4	68.4	56.7	80.2	154.4	148.5	140.7	136.8	129.0	125.0	125.0
85°	31.3	39.1	35.2	48.9	84.0	87.9	87.9	84.0	82.1	78.2	80.2
87.5°	9.8	17.6	21.5	27.3	43.0	45.0	46.9	46.9	46.9	48.9	48.9
90°	3.5	6.4	9.3	10.0	15.7	23.3	27.2	24.2	18.2	13.6	13.6
92.5°	14.3	38.7	63.0	69.1	97.1	134.5	153.2	134.3	96.4	68.0	65.3
95°	34.3	78.9	123.4	134.6	239.0	378.3	447.9	399.7	303.2	230.9	222.8
97.5°	59.4	98.7	138.0	147.8	322.0	554.2	670.3	639.8	578.9	533.1	517.5
100°	78.8	114.4	150.1	159.0	352.2	609.8	738.7	740.9	745.4	748.7	730.1
102.5°	95.2	128.5	161.8	170.1	366.1	627.3	758.0	796.8	874.5	932.7	916.8
105°	123.2	151.4	179.6	186.6	376.3	629.3	755.8	842.8	1016.9	1147.5	1139.0
107.5°	151.8	178.1	204.4	210.9	378.2	601.3	712.9	834.3	1077.2	1259.3	1261.3
110°	171.2	194.9	218.5	224.5	375.3	576.5	677.1	812.8	1084.3	1287.9	1296.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	190.1	212.7	235.3	240.9	375.5	554.8	644.5	783.4	1061.2	1269.6	1283.3
115°	218.8	239.6	260.4	265.7	378.9	529.9	605.5	739.3	1006.9	1207.7	1226.6
117.5°	247.0	266.0	284.9	289.7	386.0	514.4	578.6	699.4	940.9	1122.1	1143.1
120°	263.5	281.4	299.1	303.6	391.7	509.1	567.9	678.2	898.9	1064.4	1084.9
122.5°	279.7	297.6	315.6	320.1	399.9	506.4	559.6	659.0	857.7	1006.8	1026.9
125°	304.3	320.7	337.1	341.2	411.0	504.1	550.7	635.1	804.0	930.5	949.1
127.5°	324.4	341.0	357.4	361.6	422.1	502.8	543.2	615.6	760.6	869.3	885.0
130°	335.1	353.0	370.8	375.2	430.3	503.7	540.3	604.8	733.9	830.7	845.2
132.5°	346.2	364.1	381.8	386.3	436.8	504.1	537.8	595.5	711.1	797.7	810.7
135°	362.7	378.9	395.2	399.2	444.0	503.7	533.5	581.8	678.6	751.1	762.3
137.5°	379.5	395.5	411.6	415.6	454.7	506.7	532.8	573.6	655.4	716.8	726.0
140°	393.5	408.3	423.1	426.8	461.3	507.3	530.2	565.6	636.3	689.2	697.8
142.5°	404.2	418.0	431.7	435.0	466.8	509.0	530.2	561.3	623.3	669.9	677.3
145°	420.7	432.7	444.5	447.5	473.9	509.1	526.7	552.1	602.8	640.9	646.4
147.5°	437.1	448.8	460.4	463.3	484.4	512.6	526.7	546.6	586.6	616.5	621.2
150°	447.9	458.4	468.9	471.5	490.0	514.4	526.7	543.5	577.3	602.6	606.4
152.5°	459.0	467.0	474.9	476.9	493.5	515.6	526.7	541.1	569.9	591.5	594.4
155°	475.5	481.3	487.3	488.7	501.3	518.2	526.7	538.2	561.1	578.3	580.1
157.5°	487.6	493.4	499.1	500.6	509.3	520.9	526.7	535.6	553.4	566.8	568.1
160°	495.9	500.3	504.8	505.9	512.8	522.1	526.7	534.3	549.5	561.0	561.8
162.5°	504.1	507.5	510.8	511.7	516.7	523.4	526.7	533.1	546.0	555.7	556.4
165°	513.1	516.1	519.1	519.9	522.1	525.1	526.7	531.3	540.5	547.5	548.2
167.5°	521.3	522.8	524.1	524.5	526.4	529.0	530.2	533.2	539.3	543.9	544.2
170°	526.7	528.1	529.5	529.9	530.0	530.1	530.2	533.2	539.3	543.9	543.9
172.5°	529.5	529.8	530.1	530.2	530.2	530.2	530.2	532.6	537.4	541.0	540.7
175°	533.5	533.5	533.5	533.5	532.4	530.9	530.2	531.8	534.8	537.1	537.1
177.5°	533.5	533.5	533.5	533.5	532.6	531.5	531.0	532.2	534.6	536.4	536.1
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	2118.5	2112.6	2118.5	2114.6	2116.6	2110.7	2093.1	2087.2	2093.1	2098.9	2098.9
5°	2143.9	2140.0	2143.9	2143.9	2142.0	2138.1	2118.5	2114.6	2118.5	2120.5	2116.6
7.5°	2151.8	2145.9	2151.8	2147.8	2147.8	2143.9	2124.4	2120.5	2122.4	2128.3	2122.4
10°	2151.8	2145.9	2151.8	2149.8	2147.8	2143.9	2124.4	2116.6	2116.6	2122.4	2116.6
12.5°	2142.0	2138.1	2142.0	2138.1	2138.1	2134.1	2114.6	2106.8	2108.7	2110.7	2102.9
15°	2126.4	2120.5	2126.4	2122.4	2124.4	2118.5	2097.0	2089.2	2089.2	2093.1	2079.5
17.5°	2102.9	2095.1	2102.9	2100.9	2098.9	2095.1	2075.5	2067.7	2065.8	2067.7	2057.9
20°	2075.5	2069.7	2075.5	2073.5	2073.5	2065.8	2046.2	2036.4	2036.4	2036.4	2026.6
22.5°	2032.5	2026.6	2032.5	2036.4	2036.4	2034.5	2016.9	2003.2	1999.3	1999.3	1987.6
25°	1983.7	1977.8	1983.7	1983.7	1981.7	1983.7	1977.8	1970.0	1964.1	1958.3	1946.6
27.5°	1936.8	1932.9	1936.8	1932.9	1936.8	1930.9	1928.9	1927.0	1919.1	1913.3	1897.7
30°	1889.9	1886.0	1889.9	1886.0	1882.0	1878.1	1868.3	1864.5	1872.3	1868.3	1842.9
32.5°	1831.2	1827.3	1831.2	1831.2	1827.3	1827.3	1811.7	1805.8	1807.8	1819.5	1796.0
35°	1770.6	1764.8	1770.6	1768.7	1770.6	1764.8	1755.0	1753.1	1745.2	1758.9	1741.4
37.5°	1700.3	1694.4	1700.3	1700.3	1700.3	1704.2	1696.4	1690.5	1678.8	1696.4	1682.7
40°	1628.0	1620.2	1628.0	1626.0	1628.0	1631.9	1628.0	1624.1	1612.3	1626.0	1614.3
42.5°	1545.9	1543.9	1545.9	1547.9	1547.9	1555.6	1561.6	1553.7	1549.8	1540.0	1547.9
45°	1457.9	1454.1	1457.9	1461.8	1463.8	1467.7	1485.3	1485.3	1479.5	1463.8	1475.6
47.5°	1364.1	1354.4	1364.1	1375.8	1375.8	1381.7	1399.3	1413.0	1403.2	1383.7	1389.5
50°	1264.5	1266.4	1264.5	1272.3	1272.3	1293.8	1307.5	1321.2	1330.9	1307.5	1280.1
52.5°	1166.8	1164.8	1166.8	1172.6	1180.4	1190.2	1213.7	1227.3	1242.9	1229.3	1186.3
55°	1069.0	1072.9	1069.0	1071.0	1074.9	1080.8	1116.0	1129.6	1158.9	1141.4	1096.4
57.5°	971.3	965.4	971.3	975.2	977.2	983.1	1012.3	1037.7	1055.4	1057.3	1002.6
60°	857.9	850.2	857.9	875.6	879.5	883.3	910.8	934.2	949.8	955.6	899.0
62.5°	758.3	744.6	758.3	770.0	777.9	787.6	807.1	842.3	856.0	857.9	777.9
65°	652.7	646.9	652.7	676.2	678.1	689.9	711.4	736.8	766.1	762.2	646.9
67.5°	557.0	557.0	557.0	572.6	584.4	590.2	617.5	629.3	666.4	670.4	539.4
70°	469.0	467.1	469.0	480.8	488.6	502.3	527.7	541.4	570.6	580.4	437.7
72.5°	385.0	383.1	385.0	394.8	402.6	414.3	435.8	451.5	476.9	488.6	340.0
75°	310.8	306.8	310.8	318.5	316.6	332.3	349.8	365.4	388.9	396.7	252.1
77.5°	238.5	238.5	238.5	246.2	246.2	261.9	269.7	289.2	302.9	314.6	185.6
80°	177.9	175.9	177.9	179.8	179.8	187.6	201.3	215.0	226.7	226.7	127.0
82.5°	125.0	121.2	125.0	125.0	125.0	129.0	136.8	140.7	148.5	154.4	80.2
85°	78.2	78.2	78.2	80.2	78.2	82.1	84.0	87.9	87.9	84.0	48.9
87.5°	50.8	48.9	50.8	48.9	48.9	46.9	46.9	46.9	45.0	43.0	27.3
90°	13.6	13.6	13.6	13.6	13.6	18.2	24.2	27.2	23.3	15.7	10.0
92.5°	54.4	43.7	54.4	65.3	68.0	96.4	134.3	153.2	134.5	97.1	69.1
95°	190.0	157.2	190.0	222.8	230.9	303.2	399.7	447.9	378.3	239.0	134.6
97.5°	455.1	392.8	455.1	517.5	533.1	578.9	639.8	670.3	554.2	322.0	147.8
100°	655.7	581.4	655.7	730.1	748.7	745.4	740.9	738.7	609.8	352.2	159.0
102.5°	853.2	789.5	853.2	916.8	932.7	874.5	796.8	758.0	627.3	366.1	170.1
105°	1104.7	1070.5	1104.7	1139.0	1147.5	1016.9	842.8	755.8	629.3	376.3	186.6
107.5°	1269.6	1277.8	1269.6	1261.3	1259.3	1077.2	834.3	712.9	601.3	378.2	210.9
110°	1332.4	1368.1	1332.4	1296.8	1287.9	1084.3	812.8	677.1	576.5	375.3	224.5



TEST NUMBER: P934923

CATALOG NUMBER: SQ4-FA-075U-125D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1338.0	1392.8	1338.0	1283.3	1269.6	1061.2	783.4	644.5	554.8	375.5	240.9
115°	1302.5	1378.5	1302.5	1226.6	1207.7	1006.9	739.3	605.5	529.9	378.9	265.7
117.5°	1227.3	1311.5	1227.3	1143.1	1122.1	940.9	699.4	578.6	514.4	386.0	289.7
120°	1166.7	1248.5	1166.7	1084.9	1064.4	898.9	678.2	567.9	509.1	391.7	303.6
122.5°	1107.6	1188.3	1107.6	1026.9	1006.8	857.7	659.0	559.6	506.4	399.9	320.1
125°	1023.5	1097.8	1023.5	949.1	930.5	804.0	635.1	550.7	504.1	411.0	341.2
127.5°	947.7	1010.4	947.7	885.0	869.3	760.6	615.6	543.2	502.8	422.1	361.6
130°	903.1	961.0	903.1	845.2	830.7	733.9	604.8	540.3	503.7	430.3	375.2
132.5°	862.6	914.5	862.6	810.7	797.7	711.1	595.5	537.8	504.1	436.8	386.3
135°	807.0	851.8	807.0	762.3	751.1	678.6	581.8	533.5	503.7	444.0	399.2
137.5°	762.5	799.2	762.5	726.0	716.8	655.4	573.6	532.8	506.7	454.7	415.6
140°	732.0	766.2	732.0	697.8	689.2	636.3	565.6	530.2	507.3	461.3	426.8
142.5°	706.7	736.1	706.7	677.3	669.9	623.3	561.3	530.2	509.0	466.8	435.0
145°	668.7	691.0	668.7	646.4	640.9	602.8	552.1	526.7	509.1	473.9	447.5
147.5°	639.6	658.0	639.6	621.2	616.5	586.6	546.6	526.7	512.6	484.4	463.3
150°	621.3	636.3	621.3	606.4	602.6	577.3	543.5	526.7	514.4	490.0	471.5
152.5°	605.6	616.9	605.6	594.4	591.5	569.9	541.1	526.7	515.6	493.5	476.9
155°	587.6	595.1	587.6	580.1	578.3	561.1	538.2	526.7	518.2	501.3	488.7
157.5°	573.3	578.6	573.3	568.1	566.8	553.4	535.6	526.7	520.9	509.3	500.6
160°	564.8	567.9	564.8	561.8	561.0	549.5	534.3	526.7	522.1	512.8	505.9
162.5°	559.3	562.1	559.3	556.4	555.7	546.0	533.1	526.7	523.4	516.7	511.7
165°	551.2	554.2	551.2	548.2	547.5	540.5	531.3	526.7	525.1	522.1	519.9
167.5°	545.5	546.7	545.5	544.2	543.9	539.3	533.2	530.2	529.0	526.4	524.5
170°	543.9	543.9	543.9	543.9	543.9	539.3	533.2	530.2	530.1	530.0	529.9
172.5°	539.6	538.5	539.6	540.7	541.0	537.4	532.6	530.2	530.2	530.2	530.2
175°	537.1	537.1	537.1	537.1	537.1	534.8	531.8	530.2	530.9	532.4	533.5
177.5°	534.8	533.5	534.8	536.1	536.4	534.6	532.2	531.0	531.5	532.6	533.5
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



TEST NUMBER: P934923

CATALOG NUMBER: SQ4-FA-075U-125D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	2095.1	2083.3	2083.3	2063.8	2056.0	2050.1	2040.3	2011.0	2003.2	1995.4	2007.1
5°	2112.6	2091.2	2075.5	2040.3	2011.0	1999.3	1962.2	1891.8	1844.9	1809.7	1790.2
7.5°	2116.6	2089.2	2059.9	2005.2	1934.8	1903.5	1790.2	1661.2	1626.0	1594.7	1575.2
10°	2112.6	2081.4	2040.3	1958.3	1792.2	1737.4	1624.1	1540.0	1518.5	1512.7	1518.5
12.5°	2098.9	2069.7	2013.0	1876.2	1643.6	1606.5	1540.0	1491.2	1487.3	1497.0	1549.8
15°	2075.5	2048.1	1981.7	1766.8	1561.6	1534.1	1487.3	1469.7	1491.2	1559.6	1717.9
17.5°	2052.0	2020.8	1938.7	1659.3	1499.0	1479.5	1446.2	1481.4	1602.6	1694.4	1747.2
20°	2020.8	1983.7	1889.9	1581.0	1454.1	1436.4	1420.8	1579.1	1671.0	1704.2	1733.5
22.5°	1983.7	1944.6	1823.4	1526.4	1407.1	1393.5	1403.2	1633.9	1671.0	1694.4	1719.8
25°	1934.8	1901.6	1745.2	1483.3	1370.0	1354.4	1391.5	1628.0	1649.5	1655.3	1706.2
27.5°	1889.9	1846.8	1663.1	1444.3	1325.0	1319.2	1401.2	1602.6	1618.2	1624.1	1678.8
30°	1835.1	1770.6	1571.3	1403.2	1278.1	1276.2	1403.2	1571.3	1567.4	1583.0	1637.7
32.5°	1778.5	1657.3	1467.7	1352.4	1233.2	1231.2	1389.5	1524.4	1520.5	1542.0	1583.0
35°	1725.7	1569.3	1327.0	1293.8	1176.5	1178.5	1356.4	1469.7	1471.6	1491.2	1516.6
37.5°	1671.0	1493.1	1172.6	1229.3	1121.8	1121.8	1311.4	1418.9	1415.0	1420.8	1456.0
40°	1606.5	1373.9	1035.8	1145.2	1071.0	1065.1	1256.6	1364.1	1350.4	1348.5	1397.4
42.5°	1538.1	1242.9	934.2	1033.9	1012.3	1004.5	1190.2	1297.7	1272.3	1278.1	1340.6
45°	1463.8	1207.8	856.0	873.6	951.8	945.9	1117.9	1221.5	1203.9	1219.5	1284.0
47.5°	1389.5	1137.4	830.6	725.0	887.3	885.3	1037.7	1147.2	1137.4	1153.1	1221.5
50°	1287.9	1059.3	828.7	621.5	815.0	822.7	942.0	1074.9	1074.9	1088.5	1160.9
52.5°	1157.0	963.5	752.4	562.9	731.0	754.4	857.9	1012.3	1016.2	1030.0	1094.4
55°	1037.7	863.8	697.7	517.9	631.2	682.1	775.9	947.9	955.6	969.4	1028.0
57.5°	928.3	719.2	686.0	465.2	539.4	588.3	703.5	885.3	889.2	901.0	957.6
60°	811.0	519.8	629.3	408.5	459.3	496.4	637.1	811.0	824.7	832.5	881.4
62.5°	678.1	377.2	570.6	369.4	420.2	428.0	582.4	740.7	758.3	764.1	793.5
65°	482.7	316.6	484.7	336.2	379.1	381.1	523.8	668.4	684.0	693.8	715.3
67.5°	326.4	258.0	369.4	304.8	347.9	349.8	467.1	584.4	605.8	613.7	627.3
70°	226.7	172.0	273.6	271.7	312.7	316.6	406.5	508.1	527.7	533.5	541.4
72.5°	166.1	138.8	226.7	244.3	275.6	279.5	344.0	422.1	441.7	447.5	451.5
75°	127.0	146.6	183.7	213.1	234.5	236.5	281.4	344.0	357.7	361.6	363.5
77.5°	101.6	136.8	134.8	172.0	191.5	187.6	220.8	265.8	277.5	277.5	277.5
80°	76.2	107.5	101.6	123.1	140.7	136.8	158.3	189.6	193.5	197.4	195.4
82.5°	56.7	68.4	68.4	78.2	93.8	89.9	105.6	123.1	123.1	123.1	127.0
85°	35.2	39.1	31.3	41.0	52.7	50.8	58.6	66.5	68.4	68.4	64.5
87.5°	21.5	17.6	9.8	15.6	23.5	23.5	27.3	29.3	27.3	27.3	27.3
90°	9.3	6.4	3.5	6.4	9.3	10.0	15.7	23.3	27.2	24.2	18.2
92.5°	63.0	38.7	14.3	38.7	63.0	69.1	97.1	134.5	153.2	134.3	96.4
95°	123.4	78.9	34.3	78.9	123.4	134.6	239.0	378.3	447.9	399.7	303.2
97.5°	138.0	98.7	59.4	98.7	138.0	147.8	322.0	554.2	670.3	639.8	578.9
100°	150.1	114.4	78.8	114.4	150.1	159.0	352.2	609.8	738.7	740.9	745.4
102.5°	161.8	128.5	95.2	128.5	161.8	170.1	366.1	627.3	758.0	796.8	874.5
105°	179.6	151.4	123.2	151.4	179.6	186.6	376.3	629.3	755.8	842.8	1016.9
107.5°	204.4	178.1	151.8	178.1	204.4	210.9	378.2	601.3	712.9	834.3	1077.2
110°	218.5	194.9	171.2	194.9	218.5	224.5	375.3	576.5	677.1	812.8	1084.3



TEST NUMBER: P934923

CATALOG NUMBER: SQ4-FA-075U-125D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	235.3	212.7	190.1	212.7	235.3	240.9	375.5	554.8	644.5	783.4	1061.2
115°	260.4	239.6	218.8	239.6	260.4	265.7	378.9	529.9	605.5	739.3	1006.9
117.5°	284.9	266.0	247.0	266.0	284.9	289.7	386.0	514.4	578.6	699.4	940.9
120°	299.1	281.4	263.5	281.4	299.1	303.6	391.7	509.1	567.9	678.2	898.9
122.5°	315.6	297.6	279.7	297.6	315.6	320.1	399.9	506.4	559.6	659.0	857.7
125°	337.1	320.7	304.3	320.7	337.1	341.2	411.0	504.1	550.7	635.1	804.0
127.5°	357.4	341.0	324.4	341.0	357.4	361.6	422.1	502.8	543.2	615.6	760.6
130°	370.8	353.0	335.1	353.0	370.8	375.2	430.3	503.7	540.3	604.8	733.9
132.5°	381.8	364.1	346.2	364.1	381.8	386.3	436.8	504.1	537.8	595.5	711.1
135°	395.2	378.9	362.7	378.9	395.2	399.2	444.0	503.7	533.5	581.8	678.6
137.5°	411.6	395.5	379.5	395.5	411.6	415.6	454.7	506.7	532.8	573.6	655.4
140°	423.1	408.3	393.5	408.3	423.1	426.8	461.3	507.3	530.2	565.6	636.3
142.5°	431.7	418.0	404.2	418.0	431.7	435.0	466.8	509.0	530.2	561.3	623.3
145°	444.5	432.7	420.7	432.7	444.5	447.5	473.9	509.1	526.7	552.1	602.8
147.5°	460.4	448.8	437.1	448.8	460.4	463.3	484.4	512.6	526.7	546.6	586.6
150°	468.9	458.4	447.9	458.4	468.9	471.5	490.0	514.4	526.7	543.5	577.3
152.5°	474.9	467.0	459.0	467.0	474.9	476.9	493.5	515.6	526.7	541.1	569.9
155°	487.3	481.3	475.5	481.3	487.3	488.7	501.3	518.2	526.7	538.2	561.1
157.5°	499.1	493.4	487.6	493.4	499.1	500.6	509.3	520.9	526.7	535.6	553.4
160°	504.8	500.3	495.9	500.3	504.8	505.9	512.8	522.1	526.7	534.3	549.5
162.5°	510.8	507.5	504.1	507.5	510.8	511.7	516.7	523.4	526.7	533.1	546.0
165°	519.1	516.1	513.1	516.1	519.1	519.9	522.1	525.1	526.7	531.3	540.5
167.5°	524.1	522.8	521.3	522.8	524.1	524.5	526.4	529.0	530.2	533.2	539.3
170°	529.5	528.1	526.7	528.1	529.5	529.9	530.0	530.1	530.2	533.2	539.3
172.5°	530.1	529.8	529.5	529.8	530.1	530.2	530.2	530.2	530.2	532.6	537.4
175°	533.5	533.5	533.5	533.5	533.5	533.5	532.4	530.9	530.2	531.8	534.8
177.5°	533.5	533.5	533.5	533.5	533.5	533.5	532.6	531.5	531.0	532.2	534.6
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



TEST NUMBER: P934923
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	1993.5	1987.6	1995.4	1973.9	1995.4	1987.6	1993.5	2007.1	1995.4	2003.2	2011.0
5°	1749.1	1739.4	1708.1	1682.7	1708.1	1739.4	1749.1	1790.2	1809.7	1844.9	1891.8
7.5°	1563.5	1555.6	1547.9	1532.2	1547.9	1555.6	1563.5	1575.2	1594.7	1626.0	1661.2
10°	1522.4	1524.4	1536.2	1534.1	1536.2	1524.4	1522.4	1518.5	1512.7	1518.5	1540.0
12.5°	1628.0	1645.6	1710.1	1706.2	1710.1	1645.6	1628.0	1549.8	1497.0	1487.3	1491.2
15°	1749.1	1755.0	1768.7	1770.6	1768.7	1755.0	1749.1	1717.9	1559.6	1491.2	1469.7
17.5°	1760.8	1762.8	1772.6	1772.6	1772.6	1762.8	1760.8	1747.2	1694.4	1602.6	1481.4
20°	1751.1	1755.0	1774.5	1778.5	1774.5	1755.0	1751.1	1733.5	1704.2	1671.0	1579.1
22.5°	1747.2	1755.0	1770.6	1768.7	1770.6	1755.0	1747.2	1719.8	1694.4	1671.0	1633.9
25°	1727.6	1727.6	1729.6	1731.6	1729.6	1727.6	1727.6	1706.2	1655.3	1649.5	1628.0
27.5°	1686.6	1690.5	1702.2	1700.3	1702.2	1690.5	1686.6	1678.8	1624.1	1618.2	1602.6
30°	1649.5	1645.6	1635.8	1628.0	1635.8	1645.6	1649.5	1637.7	1583.0	1567.4	1571.3
32.5°	1587.0	1577.2	1567.4	1561.6	1567.4	1577.2	1587.0	1583.0	1542.0	1520.5	1524.4
35°	1512.7	1514.6	1512.7	1506.8	1512.7	1514.6	1512.7	1516.6	1491.2	1471.6	1469.7
37.5°	1459.9	1463.8	1461.8	1454.1	1461.8	1463.8	1459.9	1456.0	1420.8	1415.0	1418.9
40°	1405.2	1407.1	1405.2	1399.3	1405.2	1407.1	1405.2	1397.4	1348.5	1350.4	1364.1
42.5°	1352.4	1350.4	1344.6	1340.6	1344.6	1350.4	1352.4	1340.6	1278.1	1272.3	1297.7
45°	1291.8	1293.8	1282.0	1276.2	1282.0	1293.8	1291.8	1284.0	1219.5	1203.9	1221.5
47.5°	1231.2	1231.2	1221.5	1215.6	1221.5	1231.2	1231.2	1221.5	1153.1	1137.4	1147.2
50°	1166.8	1164.8	1151.2	1149.1	1151.2	1164.8	1166.8	1160.9	1088.5	1074.9	1074.9
52.5°	1092.5	1092.5	1094.4	1098.3	1094.4	1092.5	1092.5	1094.4	1030.0	1016.2	1012.3
55°	1028.0	1030.0	1043.7	1047.5	1043.7	1030.0	1028.0	1028.0	969.4	955.6	947.9
57.5°	961.6	961.6	971.3	971.3	971.3	961.6	961.6	957.6	901.0	889.2	885.3
60°	885.3	889.2	897.0	895.1	897.0	889.2	885.3	881.4	832.5	824.7	811.0
62.5°	805.2	809.1	811.0	807.1	811.0	809.1	805.2	793.5	764.1	758.3	740.7
65°	721.2	725.0	727.0	723.1	727.0	725.0	721.2	715.3	693.8	684.0	668.4
67.5°	635.2	633.2	631.2	639.1	631.2	633.2	635.2	627.3	613.7	605.8	584.4
70°	547.2	547.2	545.2	549.2	545.2	547.2	547.2	541.4	533.5	527.7	508.1
72.5°	453.4	451.5	459.3	453.4	459.3	451.5	453.4	451.5	447.5	441.7	422.1
75°	361.6	365.4	361.6	367.4	361.6	365.4	361.6	363.5	361.6	357.7	344.0
77.5°	275.6	279.5	275.6	275.6	275.6	279.5	275.6	277.5	277.5	277.5	265.8
80°	195.4	193.5	193.5	191.5	193.5	193.5	195.4	195.4	197.4	193.5	189.6
82.5°	125.0	123.1	123.1	127.0	123.1	123.1	125.0	127.0	123.1	123.1	123.1
85°	68.4	70.4	66.5	66.5	66.5	70.4	68.4	64.5	68.4	68.4	66.5
87.5°	25.4	23.5	23.5	23.5	23.5	23.5	25.4	27.3	27.3	27.3	29.3
90°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	18.2	24.2	27.2	23.3
92.5°	68.0	65.3	54.4	43.7	54.4	65.3	68.0	96.4	134.3	153.2	134.5
95°	230.9	222.8	190.0	157.2	190.0	222.8	230.9	303.2	399.7	447.9	378.3
97.5°	533.1	517.5	455.1	392.8	455.1	517.5	533.1	578.9	639.8	670.3	554.2
100°	748.7	730.1	655.7	581.4	655.7	730.1	748.7	745.4	740.9	738.7	609.8
102.5°	932.7	916.8	853.2	789.5	853.2	916.8	932.7	874.5	796.8	758.0	627.3
105°	1147.5	1139.0	1104.7	1070.5	1104.7	1139.0	1147.5	1016.9	842.8	755.8	629.3
107.5°	1259.3	1261.3	1269.6	1277.8	1269.6	1261.3	1259.3	1077.2	834.3	712.9	601.3
110°	1287.9	1296.8	1332.4	1368.1	1332.4	1296.8	1287.9	1084.3	812.8	677.1	576.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1269.6	1283.3	1338.0	1392.8	1338.0	1283.3	1269.6	1061.2	783.4	644.5	554.8
115°	1207.7	1226.6	1302.5	1378.5	1302.5	1226.6	1207.7	1006.9	739.3	605.5	529.9
117.5°	1122.1	1143.1	1227.3	1311.5	1227.3	1143.1	1122.1	940.9	699.4	578.6	514.4
120°	1064.4	1084.9	1166.7	1248.5	1166.7	1084.9	1064.4	898.9	678.2	567.9	509.1
122.5°	1006.8	1026.9	1107.6	1188.3	1107.6	1026.9	1006.8	857.7	659.0	559.6	506.4
125°	930.5	949.1	1023.5	1097.8	1023.5	949.1	930.5	804.0	635.1	550.7	504.1
127.5°	869.3	885.0	947.7	1010.4	947.7	885.0	869.3	760.6	615.6	543.2	502.8
130°	830.7	845.2	903.1	961.0	903.1	845.2	830.7	733.9	604.8	540.3	503.7
132.5°	797.7	810.7	862.6	914.5	862.6	810.7	797.7	711.1	595.5	537.8	504.1
135°	751.1	762.3	807.0	851.8	807.0	762.3	751.1	678.6	581.8	533.5	503.7
137.5°	716.8	726.0	762.5	799.2	762.5	726.0	716.8	655.4	573.6	532.8	506.7
140°	689.2	697.8	732.0	766.2	732.0	697.8	689.2	636.3	565.6	530.2	507.3
142.5°	669.9	677.3	706.7	736.1	706.7	677.3	669.9	623.3	561.3	530.2	509.0
145°	640.9	646.4	668.7	691.0	668.7	646.4	640.9	602.8	552.1	526.7	509.1
147.5°	616.5	621.2	639.6	658.0	639.6	621.2	616.5	586.6	546.6	526.7	512.6
150°	602.6	606.4	621.3	636.3	621.3	606.4	602.6	577.3	543.5	526.7	514.4
152.5°	591.5	594.4	605.6	616.9	605.6	594.4	591.5	569.9	541.1	526.7	515.6
155°	578.3	580.1	587.6	595.1	587.6	580.1	578.3	561.1	538.2	526.7	518.2
157.5°	566.8	568.1	573.3	578.6	573.3	568.1	566.8	553.4	535.6	526.7	520.9
160°	561.0	561.8	564.8	567.9	564.8	561.8	561.0	549.5	534.3	526.7	522.1
162.5°	555.7	556.4	559.3	562.1	559.3	556.4	555.7	546.0	533.1	526.7	523.4
165°	547.5	548.2	551.2	554.2	551.2	548.2	547.5	540.5	531.3	526.7	525.1
167.5°	543.9	544.2	545.5	546.7	545.5	544.2	543.9	539.3	533.2	530.2	529.0
170°	543.9	543.9	543.9	543.9	543.9	543.9	543.9	539.3	533.2	530.2	530.1
172.5°	541.0	540.7	539.6	538.5	539.6	540.7	541.0	537.4	532.6	530.2	530.2
175°	537.1	537.1	537.1	537.1	537.1	537.1	537.1	534.8	531.8	530.2	530.9
177.5°	536.4	536.1	534.8	533.5	534.8	536.1	536.4	534.6	532.2	531.0	531.5
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	2040.3	2050.1	2056.0	2063.8	2083.3
5°	1962.2	1999.3	2011.0	2040.3	2075.5
7.5°	1790.2	1903.5	1934.8	2005.2	2059.9
10°	1624.1	1737.4	1792.2	1958.3	2040.3
12.5°	1540.0	1606.5	1643.6	1876.2	2013.0
15°	1487.3	1534.1	1561.6	1766.8	1981.7
17.5°	1446.2	1479.5	1499.0	1659.3	1938.7
20°	1420.8	1436.4	1454.1	1581.0	1889.9
22.5°	1403.2	1393.5	1407.1	1526.4	1823.4
25°	1391.5	1354.4	1370.0	1483.3	1745.2
27.5°	1401.2	1319.2	1325.0	1444.3	1663.1
30°	1403.2	1276.2	1278.1	1403.2	1571.3
32.5°	1389.5	1231.2	1233.2	1352.4	1467.7
35°	1356.4	1178.5	1176.5	1293.8	1327.0
37.5°	1311.4	1121.8	1121.8	1229.3	1172.6
40°	1256.6	1065.1	1071.0	1145.2	1035.8
42.5°	1190.2	1004.5	1012.3	1033.9	934.2
45°	1117.9	945.9	951.8	873.6	856.0
47.5°	1037.7	885.3	887.3	725.0	830.6
50°	942.0	822.7	815.0	621.5	828.7
52.5°	857.9	754.4	731.0	562.9	752.4
55°	775.9	682.1	631.2	517.9	697.7
57.5°	703.5	588.3	539.4	465.2	686.0
60°	637.1	496.4	459.3	408.5	629.3
62.5°	582.4	428.0	420.2	369.4	570.6
65°	523.8	381.1	379.1	336.2	484.7
67.5°	467.1	349.8	347.9	304.8	369.4
70°	406.5	316.6	312.7	271.7	273.6
72.5°	344.0	279.5	275.6	244.3	226.7
75°	281.4	236.5	234.5	213.1	183.7
77.5°	220.8	187.6	191.5	172.0	134.8
80°	158.3	136.8	140.7	123.1	101.6
82.5°	105.6	89.9	93.8	78.2	68.4
85°	58.6	50.8	52.7	41.0	31.3
87.5°	27.3	23.5	23.5	15.6	9.8
90°	15.7	10.0	9.3	6.4	3.5
92.5°	97.1	69.1	63.0	38.7	14.3
95°	239.0	134.6	123.4	78.9	34.3
97.5°	322.0	147.8	138.0	98.7	59.4
100°	352.2	159.0	150.1	114.4	78.8
102.5°	366.1	170.1	161.8	128.5	95.2
105°	376.3	186.6	179.6	151.4	123.2
107.5°	378.2	210.9	204.4	178.1	151.8
110°	375.3	224.5	218.5	194.9	171.2



TEST NUMBER: P934923

CATALOG NUMBER: SQ4-FA-075U-125D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	375.5	240.9	235.3	212.7	190.1
115°	378.9	265.7	260.4	239.6	218.8
117.5°	386.0	289.7	284.9	266.0	247.0
120°	391.7	303.6	299.1	281.4	263.5
122.5°	399.9	320.1	315.6	297.6	279.7
125°	411.0	341.2	337.1	320.7	304.3
127.5°	422.1	361.6	357.4	341.0	324.4
130°	430.3	375.2	370.8	353.0	335.1
132.5°	436.8	386.3	381.8	364.1	346.2
135°	444.0	399.2	395.2	378.9	362.7
137.5°	454.7	415.6	411.6	395.5	379.5
140°	461.3	426.8	423.1	408.3	393.5
142.5°	466.8	435.0	431.7	418.0	404.2
145°	473.9	447.5	444.5	432.7	420.7
147.5°	484.4	463.3	460.4	448.8	437.1
150°	490.0	471.5	468.9	458.4	447.9
152.5°	493.5	476.9	474.9	467.0	459.0
155°	501.3	488.7	487.3	481.3	475.5
157.5°	509.3	500.6	499.1	493.4	487.6
160°	512.8	505.9	504.8	500.3	495.9
162.5°	516.7	511.7	510.8	507.5	504.1
165°	522.1	519.9	519.1	516.1	513.1
167.5°	526.4	524.5	524.1	522.8	521.3
170°	530.0	529.9	529.5	528.1	526.7
172.5°	530.2	530.2	530.1	529.8	529.5
175°	532.4	533.5	533.5	533.5	533.5
177.5°	532.6	533.5	533.5	533.5	533.5
180°	533.5	533.5	533.5	533.5	533.5



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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	14.59	15.56	15.45	16.44	17.55	17.42	18.38	18.28	19.27	20.37
	3H	15.08	15.95	15.95	16.84	17.97	18.77	19.64	19.64	20.53	21.66
	4H	15.27	16.09	16.16	16.99	18.14	19.22	20.04	20.10	20.93	22.08
	6H	15.40	16.15	16.30	17.06	18.22	19.51	20.26	20.41	21.16	22.32
	8H	15.40	16.12	16.31	17.04	18.20	19.58	20.30	20.49	21.22	22.38
	12H	15.38	16.06	16.29	16.98	18.16	19.62	20.31	20.54	21.22	22.41
4H	2H	15.64	16.46	16.53	17.35	18.50	17.84	18.66	18.73	19.56	20.70
	3H	16.67	17.36	17.58	18.29	19.45	19.35	20.04	20.26	20.96	22.12
	4H	16.96	17.58	17.87	18.50	19.69	19.89	20.51	20.80	21.43	22.62
	6H	17.09	17.62	18.02	18.57	19.76	20.26	20.79	21.18	21.74	22.93
	8H	17.09	17.60	18.03	18.54	19.74	20.36	20.87	21.30	21.81	23.01
	12H	17.07	17.52	18.02	18.48	19.68	20.42	20.88	21.38	21.84	23.04
8H	4H	17.42	17.92	18.35	18.86	20.06	20.02	20.52	20.95	21.46	22.66
	6H	17.68	18.10	18.64	19.08	20.28	20.46	20.87	21.42	21.86	23.06
	8H	17.73	18.09	18.69	19.07	20.28	20.61	20.98	21.58	21.95	23.17
	12H	17.71	18.04	18.69	19.00	20.27	20.71	21.04	21.68	22.00	23.27
12H	4H	17.43	17.88	18.38	18.84	20.05	19.99	20.44	20.94	21.40	22.61
	6H	17.74	18.11	18.71	19.08	20.30	20.46	20.82	21.42	21.80	23.01
	8H	17.82	18.14	18.79	19.10	20.37	20.62	20.94	21.59	21.91	23.18