

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: P933817

Luminaire Tested: SQ4-FA-025U-050D-840-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933817
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-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

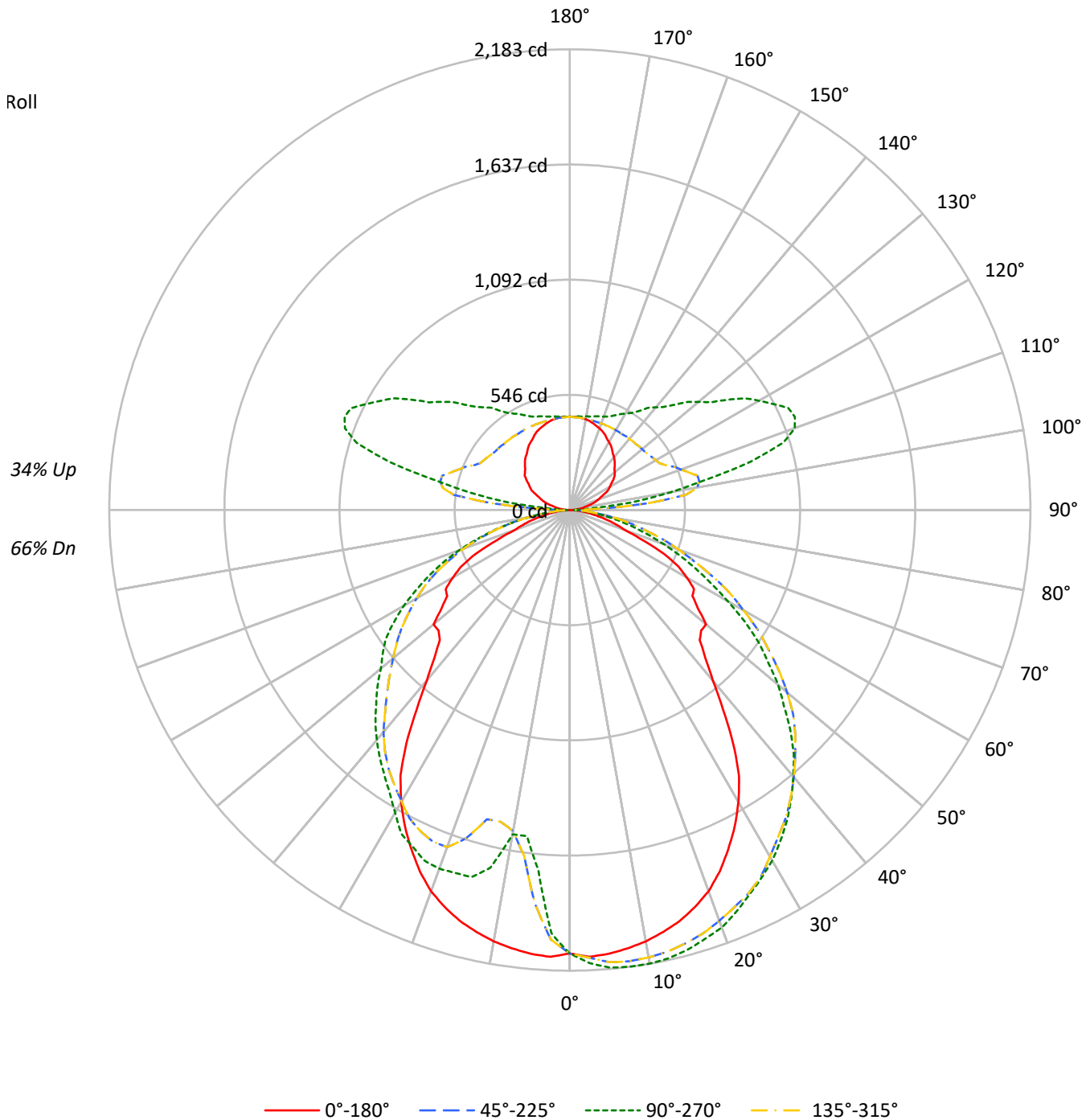
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8317.0 lumens
Efficiency: N/A
Efficacy: 126.0 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





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6499	6499	6499	6499
5°	6550	6561	6550	5158
10°	6509	6462	6509	4620
15°	6440	6322	6440	5279
20°	6308	6156	6308	5290
25°	6035	5915	6035	5178
30°	5681	5714	5681	4932
35°	5067	5460	5067	4662
40°	4224	5161	4224	4457
45°	3777	4810	3777	4222
50°	4016	4393	4016	3986
55°	3782	3943	3782	3850
60°	3903	3349	3903	3526
65°	3545	2769	3545	3095
70°	2460	2206	2460	2594
75°	2165	1631	2165	1953
80°	1757	1078	1757	1174
85°	1030	571	1030	486

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5785 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	2.3
10°-20°	538.5	6.5
20°-30°	832.4	10.0
30°-40°	993.7	11.9
40°-50°	999.6	12.0
50°-60°	869.7	10.5
60°-70°	616.7	7.4
70°-80°	326.3	3.9
80°-90°	83.0	1.0
90°-100°	215.6	2.6
100°-110°	566.9	6.8
110°-120°	587.8	7.1
120°-130°	471.5	5.7
130°-140°	369.9	4.4
140°-150°	283.9	3.4
150°-160°	204.5	2.5
160°-170°	125.1	1.5
170°-180°	42.3	0.5
0°-30°	1560.6	18.8
0°-40°	2554.3	30.7
0°-60°	4423.7	53.2
0°-90°	5449.5	65.5
90°-120°	1370.3	16.5
90°-150°	2495.6	30.0
90°-180°	2867.0	34.5
0°-180°	8317.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2101	2101	2101	2101	2101	
5°	2111	2177	2111	1712	2111	200
15°	2016	2157	2016	1801	2016	567
25°	1775	2012	1775	1761	1775	815
35°	1350	1795	1350	1533	1350	835
45°	871	1479	871	1298	871	697
55°	710	1091	710	1066	710	652
65°	493	658	493	736	493	471
75°	187	312	187	374	187	196
85°	32	80	32	68	32	43
90°	3	11	3	11	3	4
95°	28	130	28	130	28	32
105°	102	888	102	888	102	108
115°	181	1143	181	1143	181	179
125°	252	910	252	910	252	224
135°	301	706	301	706	301	233
145°	349	573	349	573	349	219
155°	394	493	394	493	394	181
165°	425	460	425	460	425	120
175°	442	445	442	445	442	42
180°	442	442	442	442	442	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2119.0	2119.0	2130.9	2134.9	2134.9	2128.9	2123.0	2128.9	2146.8	2152.8	2150.8
5°	2111.1	2127.0	2148.8	2152.8	2156.8	2154.8	2150.8	2154.8	2174.7	2178.6	2180.6
7.5°	2095.2	2125.0	2152.8	2158.8	2164.7	2158.8	2156.8	2160.8	2180.6	2184.6	2184.6
10°	2075.3	2117.0	2148.8	2152.8	2158.8	2152.8	2152.8	2160.8	2180.6	2184.6	2186.6
12.5°	2047.4	2105.1	2134.9	2138.9	2146.8	2144.8	2142.9	2150.8	2170.7	2174.7	2174.7
15°	2015.6	2083.2	2111.1	2115.0	2128.9	2125.0	2125.0	2132.9	2154.8	2160.8	2158.8
17.5°	1971.9	2055.4	2087.2	2093.2	2103.2	2101.1	2103.2	2111.1	2130.9	2134.9	2136.9
20°	1922.3	2017.6	2055.4	2061.4	2071.3	2071.3	2071.3	2081.2	2101.1	2109.1	2109.1
22.5°	1854.7	1977.9	2017.6	2021.6	2033.5	2033.5	2037.6	2051.4	2069.3	2071.3	2071.3
25°	1775.1	1934.1	1967.9	1979.9	1991.8	1997.7	2003.8	2011.7	2017.6	2015.6	2017.6
27.5°	1691.7	1878.5	1922.3	1930.2	1946.1	1952.0	1960.0	1962.0	1963.9	1969.9	1965.9
30°	1598.2	1800.9	1866.5	1874.5	1900.3	1904.4	1896.4	1900.3	1910.3	1914.2	1918.2
32.5°	1492.9	1685.6	1808.9	1826.8	1850.6	1838.8	1836.7	1842.7	1858.6	1858.6	1862.6
35°	1349.7	1596.2	1755.3	1771.2	1789.1	1775.1	1783.0	1785.0	1795.0	1800.9	1799.0
37.5°	1192.7	1518.7	1699.6	1711.5	1725.4	1707.6	1719.4	1725.4	1733.3	1729.4	1729.4
40°	1053.5	1397.4	1634.0	1642.0	1653.8	1640.0	1651.8	1655.9	1659.8	1655.9	1653.8
42.5°	950.2	1264.2	1564.4	1574.4	1566.4	1576.4	1580.3	1588.3	1582.3	1574.4	1574.4
45°	870.6	1228.5	1488.9	1500.8	1488.9	1504.8	1510.8	1510.8	1492.9	1488.9	1486.8
47.5°	844.8	1156.9	1413.3	1413.3	1407.4	1427.3	1437.1	1423.3	1405.4	1399.4	1399.4
50°	842.9	1077.4	1310.0	1302.0	1329.8	1353.7	1343.8	1329.8	1315.9	1294.1	1294.1
52.5°	765.3	980.0	1176.8	1206.6	1250.3	1264.2	1248.3	1234.4	1210.6	1200.6	1192.7
55°	709.7	878.6	1055.5	1115.2	1160.9	1178.8	1148.9	1135.0	1099.2	1093.3	1089.4
57.5°	697.7	731.5	944.2	1019.7	1075.4	1073.5	1055.5	1029.7	999.9	993.9	992.0
60°	640.1	528.8	825.0	914.4	972.0	966.1	950.2	926.3	898.5	894.5	890.6
62.5°	580.4	383.6	689.7	791.2	872.6	870.6	856.8	820.9	801.1	791.2	783.2
65°	493.0	322.0	491.0	658.0	775.3	779.2	749.4	723.6	701.7	689.7	687.7
67.5°	375.7	262.4	332.0	548.6	681.8	677.9	640.1	628.2	600.3	594.4	582.4
70°	278.3	175.0	230.6	445.3	590.4	580.4	550.6	536.7	510.9	497.0	489.0
72.5°	230.6	141.1	168.9	345.9	497.0	485.0	459.2	443.3	421.4	409.5	401.5
75°	186.8	149.1	129.2	256.4	403.5	395.6	371.7	355.8	337.9	322.0	324.0
77.5°	137.1	139.1	103.3	188.8	320.0	308.2	294.2	274.4	266.4	250.5	250.5
80°	103.3	109.4	77.6	129.2	230.6	230.6	218.6	204.7	190.8	182.9	182.9
82.5°	69.6	69.6	57.6	81.5	157.0	151.1	143.2	139.1	131.2	127.3	127.3
85°	31.8	39.7	35.8	49.7	85.5	89.4	89.4	85.5	83.5	79.5	81.5
87.5°	10.0	17.9	21.8	27.9	43.8	45.7	47.7	47.7	47.7	49.7	49.7
90°	3.0	5.3	7.7	8.3	13.0	19.4	22.5	20.1	15.0	11.3	11.3
92.5°	11.9	32.0	52.3	57.3	80.5	111.5	127.1	111.3	79.9	56.4	54.1
95°	28.5	65.4	102.4	111.6	198.2	313.7	371.4	331.4	251.4	191.5	184.7
97.5°	49.3	81.9	114.5	122.6	267.0	459.5	555.8	530.5	480.0	442.0	429.1
100°	65.3	94.8	124.4	131.8	292.1	505.7	612.5	614.3	618.0	620.8	605.3
102.5°	78.9	106.5	134.1	141.0	303.5	520.2	628.5	660.7	725.0	773.3	760.1
105°	102.2	125.5	148.8	154.6	312.0	521.8	626.7	698.8	843.2	951.4	944.3
107.5°	125.9	147.6	169.4	174.9	313.6	498.5	591.0	691.7	893.1	1044.1	1045.8
110°	141.9	161.5	181.2	186.1	311.2	478.0	561.4	673.9	899.0	1067.8	1075.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.7	176.4	195.1	199.8	311.3	460.0	534.4	649.6	879.9	1052.7	1064.1
115°	181.4	198.7	216.0	220.3	314.2	439.4	502.0	613.0	834.9	1001.3	1017.0
117.5°	204.8	220.5	236.2	240.2	320.0	426.5	479.8	580.0	780.2	930.4	947.9
120°	218.4	233.3	248.1	251.7	324.8	422.1	470.8	562.3	745.3	882.6	899.6
122.5°	231.9	246.8	261.6	265.4	331.6	419.8	464.0	546.4	711.2	834.8	851.5
125°	252.3	266.0	279.6	283.0	340.9	418.0	456.6	526.5	666.5	771.5	786.9
127.5°	268.9	282.7	296.4	299.9	350.0	416.9	450.3	510.4	630.6	720.7	733.8
130°	277.8	292.6	307.5	311.1	356.8	417.5	448.0	501.5	608.5	688.7	700.8
132.5°	287.1	301.8	316.7	320.3	362.2	418.0	445.9	493.8	589.6	661.5	672.2
135°	300.7	314.2	327.6	331.0	368.1	417.6	442.3	482.4	562.7	622.8	632.1
137.5°	314.7	328.0	341.3	344.6	377.0	420.2	441.7	475.6	543.4	594.3	601.9
140°	326.2	338.5	350.8	353.9	382.5	420.6	439.7	468.9	527.5	571.5	578.6
142.5°	335.1	346.5	357.9	360.7	387.0	422.1	439.7	465.3	516.8	555.5	561.6
145°	348.9	358.7	368.6	371.1	392.9	422.1	436.7	457.7	499.8	531.3	536.0
147.5°	362.5	372.1	381.8	384.1	401.6	425.0	436.7	453.3	486.4	511.2	515.0
150°	371.4	380.1	388.8	391.0	406.2	426.5	436.7	450.7	478.7	499.6	502.7
152.5°	380.6	387.2	393.7	395.4	409.1	427.5	436.7	448.7	472.6	490.4	492.8
155°	394.2	399.1	404.0	405.2	415.7	429.7	436.7	446.2	465.2	479.5	481.1
157.5°	404.3	409.0	413.9	415.1	422.3	431.9	436.7	444.1	458.8	469.9	471.0
160°	411.2	414.9	418.6	419.5	425.2	432.8	436.7	443.0	455.7	465.2	465.7
162.5°	418.0	420.8	423.6	424.2	428.4	433.9	436.7	442.0	452.7	460.7	461.3
165°	425.4	427.9	430.5	431.1	432.9	435.4	436.7	440.5	448.2	453.9	454.5
167.5°	432.2	433.4	434.6	434.9	436.5	438.6	439.7	442.1	447.2	450.9	451.2
170°	436.7	437.9	439.1	439.4	439.5	439.6	439.7	442.1	447.2	450.9	450.9
172.5°	439.1	439.4	439.6	439.7	439.7	439.7	439.7	441.6	445.6	448.6	448.4
175°	442.3	442.3	442.3	442.3	441.4	440.3	439.7	440.9	443.4	445.3	445.3
177.5°	442.3	442.3	442.3	442.3	441.6	440.7	440.3	441.2	443.2	444.7	444.4
180°	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2154.8	2148.8	2154.8	2150.8	2152.8	2146.8	2128.9	2123.0	2128.9	2134.9	2134.9
5°	2180.6	2176.7	2180.6	2180.6	2178.6	2174.7	2154.8	2150.8	2154.8	2156.8	2152.8
7.5°	2188.6	2182.6	2188.6	2184.6	2184.6	2180.6	2160.8	2156.8	2158.8	2164.7	2158.8
10°	2188.6	2182.6	2188.6	2186.6	2184.6	2180.6	2160.8	2152.8	2152.8	2158.8	2152.8
12.5°	2178.6	2174.7	2178.6	2174.7	2174.7	2170.7	2150.8	2142.9	2144.8	2146.8	2138.9
15°	2162.7	2156.8	2162.7	2158.8	2160.8	2154.8	2132.9	2125.0	2125.0	2128.9	2115.0
17.5°	2138.9	2130.9	2138.9	2136.9	2134.9	2130.9	2111.1	2103.2	2101.1	2103.2	2093.2
20°	2111.1	2105.1	2111.1	2109.1	2109.1	2101.1	2081.2	2071.3	2071.3	2071.3	2061.4
22.5°	2067.3	2061.4	2067.3	2071.3	2071.3	2069.3	2051.4	2037.6	2033.5	2033.5	2021.6
25°	2017.6	2011.7	2017.6	2017.6	2015.6	2017.6	2011.7	2003.8	1997.7	1991.8	1979.9
27.5°	1969.9	1965.9	1969.9	1965.9	1969.9	1963.9	1962.0	1960.0	1952.0	1946.1	1930.2
30°	1922.3	1918.2	1922.3	1918.2	1914.2	1910.3	1900.3	1896.4	1904.4	1900.3	1874.5
32.5°	1862.6	1858.6	1862.6	1862.6	1858.6	1858.6	1842.7	1836.7	1838.8	1850.6	1826.8
35°	1800.9	1795.0	1800.9	1799.0	1800.9	1795.0	1785.0	1783.0	1775.1	1789.1	1771.2
37.5°	1729.4	1723.5	1729.4	1729.4	1729.4	1733.3	1725.4	1719.4	1707.6	1725.4	1711.5
40°	1655.9	1647.9	1655.9	1653.8	1655.9	1659.8	1655.9	1651.8	1640.0	1653.8	1642.0
42.5°	1572.4	1570.3	1572.4	1574.4	1574.4	1582.3	1588.3	1580.3	1576.4	1566.4	1574.4
45°	1482.9	1478.9	1482.9	1486.8	1488.9	1492.9	1510.8	1510.8	1504.8	1488.9	1500.8
47.5°	1387.4	1377.6	1387.4	1399.4	1399.4	1405.4	1423.3	1437.1	1427.3	1407.4	1413.3
50°	1286.1	1288.1	1286.1	1294.1	1294.1	1315.9	1329.8	1343.8	1353.7	1329.8	1302.0
52.5°	1186.7	1184.7	1186.7	1192.7	1200.6	1210.6	1234.4	1248.3	1264.2	1250.3	1206.6
55°	1087.3	1091.3	1087.3	1089.4	1093.3	1099.2	1135.0	1148.9	1178.8	1160.9	1115.2
57.5°	987.9	982.0	987.9	992.0	993.9	999.9	1029.7	1055.5	1073.5	1075.4	1019.7
60°	872.6	864.7	872.6	890.6	894.5	898.5	926.3	950.2	966.1	972.0	914.4
62.5°	771.2	757.4	771.2	783.2	791.2	801.1	820.9	856.8	870.6	872.6	791.2
65°	663.9	658.0	663.9	687.7	689.7	701.7	723.6	749.4	779.2	775.3	658.0
67.5°	566.5	566.5	566.5	582.4	594.4	600.3	628.2	640.1	677.9	681.8	548.6
70°	477.1	475.1	477.1	489.0	497.0	510.9	536.7	550.6	580.4	590.4	445.3
72.5°	391.6	389.6	391.6	401.5	409.5	421.4	443.3	459.2	485.0	497.0	345.9
75°	316.1	312.1	316.1	324.0	322.0	337.9	355.8	371.7	395.6	403.5	256.4
77.5°	242.6	242.6	242.6	250.5	250.5	266.4	274.4	294.2	308.2	320.0	188.8
80°	180.9	178.9	180.9	182.9	182.9	190.8	204.7	218.6	230.6	230.6	129.2
82.5°	127.3	123.2	127.3	127.3	127.3	131.2	139.1	143.2	151.1	157.0	81.5
85°	79.5	79.5	79.5	81.5	79.5	83.5	85.5	89.4	89.4	85.5	49.7
87.5°	51.7	49.7	51.7	49.7	49.7	47.7	47.7	47.7	45.7	43.8	27.9
90°	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.5	19.4	13.0	8.3
92.5°	45.3	36.3	45.3	54.1	56.4	79.9	111.3	127.1	111.5	80.5	57.3
95°	157.5	130.3	157.5	184.7	191.5	251.4	331.4	371.4	313.7	198.2	111.6
97.5°	377.4	325.6	377.4	429.1	442.0	480.0	530.5	555.8	459.5	267.0	122.6
100°	543.8	482.1	543.8	605.3	620.8	618.0	614.3	612.5	505.7	292.1	131.8
102.5°	707.3	654.6	707.3	760.1	773.3	725.0	660.7	628.5	520.2	303.5	141.0
105°	916.0	887.6	916.0	944.3	951.4	843.2	698.8	626.7	521.8	312.0	154.6
107.5°	1052.7	1059.5	1052.7	1045.8	1044.1	893.1	691.7	591.0	498.5	313.6	174.9
110°	1104.8	1134.3	1104.8	1075.2	1067.8	899.0	673.9	561.4	478.0	311.2	186.1



TEST NUMBER: P933817

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1109.4	1154.8	1109.4	1064.1	1052.7	879.9	649.6	534.4	460.0	311.3	199.8
115°	1080.0	1142.9	1080.0	1017.0	1001.3	834.9	613.0	502.0	439.4	314.2	220.3
117.5°	1017.6	1087.4	1017.6	947.9	930.4	780.2	580.0	479.8	426.5	320.0	240.2
120°	967.4	1035.1	967.4	899.6	882.6	745.3	562.3	470.8	422.1	324.8	251.7
122.5°	918.4	985.3	918.4	851.5	834.8	711.2	546.4	464.0	419.8	331.6	265.4
125°	848.5	910.1	848.5	786.9	771.5	666.5	526.5	456.6	418.0	340.9	283.0
127.5°	785.8	837.7	785.8	733.8	720.7	630.6	510.4	450.3	416.9	350.0	299.9
130°	748.8	796.8	748.8	700.8	688.7	608.5	501.5	448.0	417.5	356.8	311.1
132.5°	715.2	758.2	715.2	672.2	661.5	589.6	493.8	445.9	418.0	362.2	320.3
135°	669.2	706.2	669.2	632.1	622.8	562.7	482.4	442.3	417.6	368.1	331.0
137.5°	632.2	662.7	632.2	601.9	594.3	543.4	475.6	441.7	420.2	377.0	344.6
140°	606.9	635.3	606.9	578.6	571.5	527.5	468.9	439.7	420.6	382.5	353.9
142.5°	586.0	610.4	586.0	561.6	555.5	516.8	465.3	439.7	422.1	387.0	360.7
145°	554.5	572.9	554.5	536.0	531.3	499.8	457.7	436.7	422.1	392.9	371.1
147.5°	530.4	545.7	530.4	515.0	511.2	486.4	453.3	436.7	425.0	401.6	384.1
150°	515.1	527.5	515.1	502.7	499.6	478.7	450.7	436.7	426.5	406.2	391.0
152.5°	502.1	511.5	502.1	492.8	490.4	472.6	448.7	436.7	427.5	409.1	395.4
155°	487.2	493.4	487.2	481.1	479.5	465.2	446.2	436.7	429.7	415.7	405.2
157.5°	475.4	479.8	475.4	471.0	469.9	458.8	444.1	436.7	431.9	422.3	415.1
160°	468.3	470.8	468.3	465.7	465.2	455.7	443.0	436.7	432.8	425.2	419.5
162.5°	463.7	466.0	463.7	461.3	460.7	452.7	442.0	436.7	433.9	428.4	424.2
165°	457.0	459.5	457.0	454.5	453.9	448.2	440.5	436.7	435.4	432.9	431.1
167.5°	452.2	453.3	452.2	451.2	450.9	447.2	442.1	439.7	438.6	436.5	434.9
170°	450.9	450.9	450.9	450.9	450.9	447.2	442.1	439.7	439.6	439.5	439.4
172.5°	447.4	446.5	447.4	448.4	448.6	445.6	441.6	439.7	439.7	439.7	439.7
175°	445.3	445.3	445.3	445.3	445.3	443.4	440.9	439.7	440.3	441.4	442.3
177.5°	443.4	442.3	443.4	444.4	444.7	443.2	441.2	440.3	440.7	441.6	442.3
180°	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3



TEST NUMBER: P933817

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2130.9	2119.0	2119.0	2099.1	2091.2	2085.2	2075.3	2045.5	2037.6	2029.5	2041.5
5°	2148.8	2127.0	2111.1	2075.3	2045.5	2033.5	1995.8	1924.2	1876.5	1840.7	1820.9
7.5°	2152.8	2125.0	2095.2	2039.5	1967.9	1936.1	1820.9	1689.7	1653.8	1622.1	1602.1
10°	2148.8	2117.0	2075.3	1991.8	1822.9	1767.1	1651.8	1566.4	1544.5	1538.6	1544.5
12.5°	2134.9	2105.1	2047.4	1908.3	1671.8	1634.0	1566.4	1516.7	1512.7	1522.7	1576.4
15°	2111.1	2083.2	2015.6	1797.0	1588.3	1560.4	1512.7	1494.8	1516.7	1586.2	1747.3
17.5°	2087.2	2055.4	1971.9	1687.7	1524.7	1504.8	1470.9	1506.8	1630.0	1723.5	1777.1
20°	2055.4	2017.6	1922.3	1608.2	1478.9	1461.1	1445.1	1606.2	1699.6	1733.3	1763.2
22.5°	2017.6	1977.9	1854.7	1552.4	1431.2	1417.3	1427.3	1661.8	1699.6	1723.5	1749.3
25°	1967.9	1934.1	1775.1	1508.8	1393.5	1377.6	1415.3	1655.9	1677.7	1683.7	1735.3
27.5°	1922.3	1878.5	1691.7	1469.0	1347.7	1341.8	1425.3	1630.0	1645.9	1651.8	1707.6
30°	1866.5	1800.9	1598.2	1427.3	1300.0	1298.0	1427.3	1598.2	1594.2	1610.1	1665.8
32.5°	1808.9	1685.6	1492.9	1375.6	1254.3	1252.3	1413.3	1550.5	1546.5	1568.4	1610.1
35°	1755.3	1596.2	1349.7	1315.9	1196.7	1198.6	1379.5	1494.8	1496.8	1516.7	1542.6
37.5°	1699.6	1518.7	1192.7	1250.3	1141.0	1141.0	1333.8	1443.2	1439.2	1445.1	1480.9
40°	1634.0	1397.4	1053.5	1164.9	1089.4	1083.3	1278.2	1387.4	1373.6	1371.6	1421.2
42.5°	1564.4	1264.2	950.2	1051.5	1029.7	1021.7	1210.6	1319.9	1294.1	1300.0	1363.6
45°	1488.9	1228.5	870.6	888.5	968.0	962.1	1137.0	1242.4	1224.5	1240.4	1306.0
47.5°	1413.3	1156.9	844.8	737.4	902.4	900.5	1055.5	1166.8	1156.9	1172.9	1242.4
50°	1310.0	1077.4	842.9	632.1	828.9	836.8	958.2	1093.3	1093.3	1107.3	1180.8
52.5°	1176.8	980.0	765.3	572.4	743.5	767.3	872.6	1029.7	1033.6	1047.6	1113.2
55°	1055.5	878.6	709.7	526.8	642.1	693.8	789.1	964.1	972.0	985.9	1045.6
57.5°	944.2	731.5	697.7	473.1	548.6	598.3	715.6	900.5	904.4	916.4	974.1
60°	825.0	528.8	640.1	415.5	467.1	504.9	648.0	825.0	838.8	846.8	896.5
62.5°	689.7	383.6	580.4	375.7	427.4	435.3	592.4	753.4	771.2	777.3	807.1
65°	491.0	322.0	493.0	341.9	385.6	387.6	532.7	679.8	695.7	705.6	727.6
67.5°	332.0	262.4	375.7	310.1	353.8	355.8	475.1	594.4	616.2	624.2	638.1
70°	230.6	175.0	278.3	276.3	318.0	322.0	413.5	516.8	536.7	542.7	550.6
72.5°	168.9	141.1	230.6	248.5	280.3	284.2	349.9	429.4	449.2	455.2	459.2
75°	129.2	149.1	186.8	216.7	238.5	240.5	286.2	349.9	363.8	367.7	369.7
77.5°	103.3	139.1	137.1	175.0	194.8	190.8	224.7	270.3	282.3	282.3	282.3
80°	77.6	109.4	103.3	125.3	143.2	139.1	161.0	192.9	196.8	200.8	198.8
82.5°	57.6	69.6	69.6	79.5	95.4	91.5	107.3	125.3	125.3	125.3	129.2
85°	35.8	39.7	31.8	41.8	53.6	51.7	59.7	67.6	69.6	69.6	65.6
87.5°	21.8	17.9	10.0	15.9	23.8	23.8	27.9	29.8	27.9	27.9	27.9
90°	7.7	5.3	3.0	5.3	7.7	8.3	13.0	19.4	22.5	20.1	15.0
92.5°	52.3	32.0	11.9	32.0	52.3	57.3	80.5	111.5	127.1	111.3	79.9
95°	102.4	65.4	28.5	65.4	102.4	111.6	198.2	313.7	371.4	331.4	251.4
97.5°	114.5	81.9	49.3	81.9	114.5	122.6	267.0	459.5	555.8	530.5	480.0
100°	124.4	94.8	65.3	94.8	124.4	131.8	292.1	505.7	612.5	614.3	618.0
102.5°	134.1	106.5	78.9	106.5	134.1	141.0	303.5	520.2	628.5	660.7	725.0
105°	148.8	125.5	102.2	125.5	148.8	154.6	312.0	521.8	626.7	698.8	843.2
107.5°	169.4	147.6	125.9	147.6	169.4	174.9	313.6	498.5	591.0	691.7	893.1
110°	181.2	161.5	141.9	161.5	181.2	186.1	311.2	478.0	561.4	673.9	899.0



TEST NUMBER: P933817

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	195.1	176.4	157.7	176.4	195.1	199.8	311.3	460.0	534.4	649.6	879.9
115°	216.0	198.7	181.4	198.7	216.0	220.3	314.2	439.4	502.0	613.0	834.9
117.5°	236.2	220.5	204.8	220.5	236.2	240.2	320.0	426.5	479.8	580.0	780.2
120°	248.1	233.3	218.4	233.3	248.1	251.7	324.8	422.1	470.8	562.3	745.3
122.5°	261.6	246.8	231.9	246.8	261.6	265.4	331.6	419.8	464.0	546.4	711.2
125°	279.6	266.0	252.3	266.0	279.6	283.0	340.9	418.0	456.6	526.5	666.5
127.5°	296.4	282.7	268.9	282.7	296.4	299.9	350.0	416.9	450.3	510.4	630.6
130°	307.5	292.6	277.8	292.6	307.5	311.1	356.8	417.5	448.0	501.5	608.5
132.5°	316.7	301.8	287.1	301.8	316.7	320.3	362.2	418.0	445.9	493.8	589.6
135°	327.6	314.2	300.7	314.2	327.6	331.0	368.1	417.6	442.3	482.4	562.7
137.5°	341.3	328.0	314.7	328.0	341.3	344.6	377.0	420.2	441.7	475.6	543.4
140°	350.8	338.5	326.2	338.5	350.8	353.9	382.5	420.6	439.7	468.9	527.5
142.5°	357.9	346.5	335.1	346.5	357.9	360.7	387.0	422.1	439.7	465.3	516.8
145°	368.6	358.7	348.9	358.7	368.6	371.1	392.9	422.1	436.7	457.7	499.8
147.5°	381.8	372.1	362.5	372.1	381.8	384.1	401.6	425.0	436.7	453.3	486.4
150°	388.8	380.1	371.4	380.1	388.8	391.0	406.2	426.5	436.7	450.7	478.7
152.5°	393.7	387.2	380.6	387.2	393.7	395.4	409.1	427.5	436.7	448.7	472.6
155°	404.0	399.1	394.2	399.1	404.0	405.2	415.7	429.7	436.7	446.2	465.2
157.5°	413.9	409.0	404.3	409.0	413.9	415.1	422.3	431.9	436.7	444.1	458.8
160°	418.6	414.9	411.2	414.9	418.6	419.5	425.2	432.8	436.7	443.0	455.7
162.5°	423.6	420.8	418.0	420.8	423.6	424.2	428.4	433.9	436.7	442.0	452.7
165°	430.5	427.9	425.4	427.9	430.5	431.1	432.9	435.4	436.7	440.5	448.2
167.5°	434.6	433.4	432.2	433.4	434.6	434.9	436.5	438.6	439.7	442.1	447.2
170°	439.1	437.9	436.7	437.9	439.1	439.4	439.5	439.6	439.7	442.1	447.2
172.5°	439.6	439.4	439.1	439.4	439.6	439.7	439.7	439.7	439.7	441.6	445.6
175°	442.3	442.3	442.3	442.3	442.3	442.3	441.4	440.3	439.7	440.9	443.4
177.5°	442.3	442.3	442.3	442.3	442.3	442.3	441.6	440.7	440.3	441.2	443.2
180°	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3



TEST NUMBER: P933817

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2027.6	2021.6	2029.5	2007.7	2029.5	2021.6	2027.6	2041.5	2029.5	2037.6	2045.5
5°	1779.1	1769.1	1737.4	1711.5	1737.4	1769.1	1779.1	1820.9	1840.7	1876.5	1924.2
7.5°	1590.3	1582.3	1574.4	1558.5	1574.4	1582.3	1590.3	1602.1	1622.1	1653.8	1689.7
10°	1548.5	1550.5	1562.4	1560.4	1562.4	1550.5	1548.5	1544.5	1538.6	1544.5	1566.4
12.5°	1655.9	1673.8	1739.4	1735.3	1739.4	1673.8	1655.9	1576.4	1522.7	1512.7	1516.7
15°	1779.1	1785.0	1799.0	1800.9	1799.0	1785.0	1779.1	1747.3	1586.2	1516.7	1494.8
17.5°	1791.0	1793.0	1802.9	1802.9	1802.9	1793.0	1791.0	1777.1	1723.5	1630.0	1506.8
20°	1781.1	1785.0	1805.0	1808.9	1805.0	1785.0	1781.1	1763.2	1733.3	1699.6	1606.2
22.5°	1777.1	1785.0	1800.9	1799.0	1800.9	1785.0	1777.1	1749.3	1723.5	1699.6	1661.8
25°	1757.3	1757.3	1759.2	1761.2	1759.2	1757.3	1757.3	1735.3	1683.7	1677.7	1655.9
27.5°	1715.5	1719.4	1731.4	1729.4	1731.4	1719.4	1715.5	1707.6	1651.8	1645.9	1630.0
30°	1677.7	1673.8	1663.8	1655.9	1663.8	1673.8	1677.7	1665.8	1610.1	1594.2	1598.2
32.5°	1614.1	1604.1	1594.2	1588.3	1594.2	1604.1	1614.1	1610.1	1568.4	1546.5	1550.5
35°	1538.6	1540.6	1538.6	1532.6	1538.6	1540.6	1538.6	1542.6	1516.7	1496.8	1494.8
37.5°	1484.9	1488.9	1486.8	1478.9	1486.8	1488.9	1484.9	1480.9	1445.1	1439.2	1443.2
40°	1429.2	1431.2	1429.2	1423.3	1429.2	1431.2	1429.2	1421.2	1371.6	1373.6	1387.4
42.5°	1375.6	1373.6	1367.6	1363.6	1367.6	1373.6	1375.6	1363.6	1300.0	1294.1	1319.9
45°	1313.9	1315.9	1304.0	1298.0	1304.0	1315.9	1313.9	1306.0	1240.4	1224.5	1242.4
47.5°	1252.3	1252.3	1242.4	1236.4	1242.4	1252.3	1252.3	1242.4	1172.9	1156.9	1166.8
50°	1186.7	1184.7	1170.8	1168.8	1170.8	1184.7	1186.7	1180.8	1107.3	1093.3	1093.3
52.5°	1111.2	1111.2	1113.2	1117.1	1113.2	1111.2	1111.2	1113.2	1047.6	1033.6	1029.7
55°	1045.6	1047.6	1061.5	1065.5	1061.5	1047.6	1045.6	1045.6	985.9	972.0	964.1
57.5°	978.0	978.0	987.9	987.9	987.9	978.0	978.0	974.1	916.4	904.4	900.5
60°	900.5	904.4	912.4	910.4	912.4	904.4	900.5	896.5	846.8	838.8	825.0
62.5°	819.0	823.0	825.0	820.9	825.0	823.0	819.0	807.1	777.3	771.2	753.4
65°	733.5	737.4	739.4	735.5	739.4	737.4	733.5	727.6	705.6	695.7	679.8
67.5°	646.1	644.1	642.1	650.0	642.1	644.1	646.1	638.1	624.2	616.2	594.4
70°	556.5	556.5	554.6	558.6	554.6	556.5	556.5	550.6	542.7	536.7	516.8
72.5°	461.2	459.2	467.1	461.2	467.1	459.2	461.2	459.2	455.2	449.2	429.4
75°	367.7	371.7	367.7	373.7	367.7	371.7	367.7	369.7	367.7	363.8	349.9
77.5°	280.3	284.2	280.3	280.3	280.3	284.2	280.3	282.3	282.3	282.3	270.3
80°	198.8	196.8	196.8	194.8	196.8	196.8	198.8	198.8	200.8	196.8	192.9
82.5°	127.3	125.3	125.3	129.2	125.3	125.3	127.3	129.2	125.3	125.3	125.3
85°	69.6	71.5	67.6	67.6	67.6	71.5	69.6	65.6	69.6	69.6	67.6
87.5°	25.9	23.8	23.8	23.8	23.8	23.8	25.9	27.9	27.9	27.9	29.8
90°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.5	19.4
92.5°	56.4	54.1	45.3	36.3	45.3	54.1	56.4	79.9	111.3	127.1	111.5
95°	191.5	184.7	157.5	130.3	157.5	184.7	191.5	251.4	331.4	371.4	313.7
97.5°	442.0	429.1	377.4	325.6	377.4	429.1	442.0	480.0	530.5	555.8	459.5
100°	620.8	605.3	543.8	482.1	543.8	605.3	620.8	618.0	614.3	612.5	505.7
102.5°	773.3	760.1	707.3	654.6	707.3	760.1	773.3	725.0	660.7	628.5	520.2
105°	951.4	944.3	916.0	887.6	916.0	944.3	951.4	843.2	698.8	626.7	521.8
107.5°	1044.1	1045.8	1052.7	1059.5	1052.7	1045.8	1044.1	893.1	691.7	591.0	498.5
110°	1067.8	1075.2	1104.8	1134.3	1104.8	1075.2	1067.8	899.0	673.9	561.4	478.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1052.7	1064.1	1109.4	1154.8	1109.4	1064.1	1052.7	879.9	649.6	534.4	460.0
115°	1001.3	1017.0	1080.0	1142.9	1080.0	1017.0	1001.3	834.9	613.0	502.0	439.4
117.5°	930.4	947.9	1017.6	1087.4	1017.6	947.9	930.4	780.2	580.0	479.8	426.5
120°	882.6	899.6	967.4	1035.1	967.4	899.6	882.6	745.3	562.3	470.8	422.1
122.5°	834.8	851.5	918.4	985.3	918.4	851.5	834.8	711.2	546.4	464.0	419.8
125°	771.5	786.9	848.5	910.1	848.5	786.9	771.5	666.5	526.5	456.6	418.0
127.5°	720.7	733.8	785.8	837.7	785.8	733.8	720.7	630.6	510.4	450.3	416.9
130°	688.7	700.8	748.8	796.8	748.8	700.8	688.7	608.5	501.5	448.0	417.5
132.5°	661.5	672.2	715.2	758.2	715.2	672.2	661.5	589.6	493.8	445.9	418.0
135°	622.8	632.1	669.2	706.2	669.2	632.1	622.8	562.7	482.4	442.3	417.6
137.5°	594.3	601.9	632.2	662.7	632.2	601.9	594.3	543.4	475.6	441.7	420.2
140°	571.5	578.6	606.9	635.3	606.9	578.6	571.5	527.5	468.9	439.7	420.6
142.5°	555.5	561.6	586.0	610.4	586.0	561.6	555.5	516.8	465.3	439.7	422.1
145°	531.3	536.0	554.5	572.9	554.5	536.0	531.3	499.8	457.7	436.7	422.1
147.5°	511.2	515.0	530.4	545.7	530.4	515.0	511.2	486.4	453.3	436.7	425.0
150°	499.6	502.7	515.1	527.5	515.1	502.7	499.6	478.7	450.7	436.7	426.5
152.5°	490.4	492.8	502.1	511.5	502.1	492.8	490.4	472.6	448.7	436.7	427.5
155°	479.5	481.1	487.2	493.4	487.2	481.1	479.5	465.2	446.2	436.7	429.7
157.5°	469.9	471.0	475.4	479.8	475.4	471.0	469.9	458.8	444.1	436.7	431.9
160°	465.2	465.7	468.3	470.8	468.3	465.7	465.2	455.7	443.0	436.7	432.8
162.5°	460.7	461.3	463.7	466.0	463.7	461.3	460.7	452.7	442.0	436.7	433.9
165°	453.9	454.5	457.0	459.5	457.0	454.5	453.9	448.2	440.5	436.7	435.4
167.5°	450.9	451.2	452.2	453.3	452.2	451.2	450.9	447.2	442.1	439.7	438.6
170°	450.9	450.9	450.9	450.9	450.9	450.9	450.9	447.2	442.1	439.7	439.6
172.5°	448.6	448.4	447.4	446.5	447.4	448.4	448.6	445.6	441.6	439.7	439.7
175°	445.3	445.3	445.3	445.3	445.3	445.3	445.3	443.4	440.9	439.7	440.3
177.5°	444.7	444.4	443.4	442.3	443.4	444.4	444.7	443.2	441.2	440.3	440.7
180°	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3	442.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2075.3	2085.2	2091.2	2099.1	2119.0
5°	1995.8	2033.5	2045.5	2075.3	2111.1
7.5°	1820.9	1936.1	1967.9	2039.5	2095.2
10°	1651.8	1767.1	1822.9	1991.8	2075.3
12.5°	1566.4	1634.0	1671.8	1908.3	2047.4
15°	1512.7	1560.4	1588.3	1797.0	2015.6
17.5°	1470.9	1504.8	1524.7	1687.7	1971.9
20°	1445.1	1461.1	1478.9	1608.2	1922.3
22.5°	1427.3	1417.3	1431.2	1552.4	1854.7
25°	1415.3	1377.6	1393.5	1508.8	1775.1
27.5°	1425.3	1341.8	1347.7	1469.0	1691.7
30°	1427.3	1298.0	1300.0	1427.3	1598.2
32.5°	1413.3	1252.3	1254.3	1375.6	1492.9
35°	1379.5	1198.6	1196.7	1315.9	1349.7
37.5°	1333.8	1141.0	1141.0	1250.3	1192.7
40°	1278.2	1083.3	1089.4	1164.9	1053.5
42.5°	1210.6	1021.7	1029.7	1051.5	950.2
45°	1137.0	962.1	968.0	888.5	870.6
47.5°	1055.5	900.5	902.4	737.4	844.8
50°	958.2	836.8	828.9	632.1	842.9
52.5°	872.6	767.3	743.5	572.4	765.3
55°	789.1	693.8	642.1	526.8	709.7
57.5°	715.6	598.3	548.6	473.1	697.7
60°	648.0	504.9	467.1	415.5	640.1
62.5°	592.4	435.3	427.4	375.7	580.4
65°	532.7	387.6	385.6	341.9	493.0
67.5°	475.1	355.8	353.8	310.1	375.7
70°	413.5	322.0	318.0	276.3	278.3
72.5°	349.9	284.2	280.3	248.5	230.6
75°	286.2	240.5	238.5	216.7	186.8
77.5°	224.7	190.8	194.8	175.0	137.1
80°	161.0	139.1	143.2	125.3	103.3
82.5°	107.3	91.5	95.4	79.5	69.6
85°	59.7	51.7	53.6	41.8	31.8
87.5°	27.9	23.8	23.8	15.9	10.0
90°	13.0	8.3	7.7	5.3	3.0
92.5°	80.5	57.3	52.3	32.0	11.9
95°	198.2	111.6	102.4	65.4	28.5
97.5°	267.0	122.6	114.5	81.9	49.3
100°	292.1	131.8	124.4	94.8	65.3
102.5°	303.5	141.0	134.1	106.5	78.9
105°	312.0	154.6	148.8	125.5	102.2
107.5°	313.6	174.9	169.4	147.6	125.9
110°	311.2	186.1	181.2	161.5	141.9



TEST NUMBER: P933817

CATALOG NUMBER: SQ4-FA-025U-050D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	311.3	199.8	195.1	176.4	157.7
115°	314.2	220.3	216.0	198.7	181.4
117.5°	320.0	240.2	236.2	220.5	204.8
120°	324.8	251.7	248.1	233.3	218.4
122.5°	331.6	265.4	261.6	246.8	231.9
125°	340.9	283.0	279.6	266.0	252.3
127.5°	350.0	299.9	296.4	282.7	268.9
130°	356.8	311.1	307.5	292.6	277.8
132.5°	362.2	320.3	316.7	301.8	287.1
135°	368.1	331.0	327.6	314.2	300.7
137.5°	377.0	344.6	341.3	328.0	314.7
140°	382.5	353.9	350.8	338.5	326.2
142.5°	387.0	360.7	357.9	346.5	335.1
145°	392.9	371.1	368.6	358.7	348.9
147.5°	401.6	384.1	381.8	372.1	362.5
150°	406.2	391.0	388.8	380.1	371.4
152.5°	409.1	395.4	393.7	387.2	380.6
155°	415.7	405.2	404.0	399.1	394.2
157.5°	422.3	415.1	413.9	409.0	404.3
160°	425.2	419.5	418.6	414.9	411.2
162.5°	428.4	424.2	423.6	420.8	418.0
165°	432.9	431.1	430.5	427.9	425.4
167.5°	436.5	434.9	434.6	433.4	432.2
170°	439.5	439.4	439.1	437.9	436.7
172.5°	439.7	439.7	439.6	439.4	439.1
175°	441.4	442.3	442.3	442.3	442.3
177.5°	441.6	442.3	442.3	442.3	442.3
180°	442.3	442.3	442.3	442.3	442.3



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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	12.64	13.66	13.45	14.49	15.52	15.49	16.51	16.30	17.34	18.37
	3H	13.13	14.04	13.95	14.88	15.94	16.85	17.77	17.68	18.61	19.67
	4H	13.32	14.19	14.16	15.04	16.11	17.31	18.17	18.15	19.02	20.09
	6H	13.45	14.25	14.30	15.11	16.19	17.61	18.40	18.46	19.26	20.35
	8H	13.46	14.22	14.32	15.09	16.18	17.69	18.45	18.55	19.32	20.41
	12H	13.43	14.16	14.30	15.03	16.14	17.74	18.46	18.60	19.33	20.44
4H	2H	13.69	14.56	14.54	15.41	16.48	15.92	16.78	16.76	17.63	18.70
	3H	14.74	15.46	15.59	16.34	17.43	17.44	18.16	18.30	19.05	20.13
	4H	15.02	15.67	15.89	16.55	17.67	17.98	18.64	18.85	19.52	20.63
	6H	15.15	15.72	16.04	16.62	17.74	18.36	18.93	19.25	19.83	20.95
	8H	15.16	15.69	16.05	16.59	17.72	18.47	19.00	19.36	19.90	21.03
	12H	15.14	15.61	16.04	16.53	17.67	18.54	19.02	19.45	19.94	21.07
8H	4H	15.49	16.02	16.38	16.92	18.05	18.12	18.65	19.01	19.55	20.68
	6H	15.76	16.19	16.67	17.14	18.26	18.57	19.01	19.48	19.95	21.07
	8H	15.80	16.19	16.73	17.12	18.27	18.72	19.11	19.65	20.05	21.19
	12H	15.79	16.13	16.72	17.06	18.26	18.83	19.18	19.76	20.10	21.30
12H	4H	15.50	15.98	16.41	16.90	18.03	18.09	18.57	19.00	19.49	20.62
	6H	15.82	16.21	16.74	17.14	18.29	18.57	18.95	19.49	19.89	21.03
	8H	15.89	16.24	16.82	17.16	18.36	18.74	19.08	19.67	20.01	21.20