

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: P934320

Luminaire Tested: SQ4-FA-050U-075D-840-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

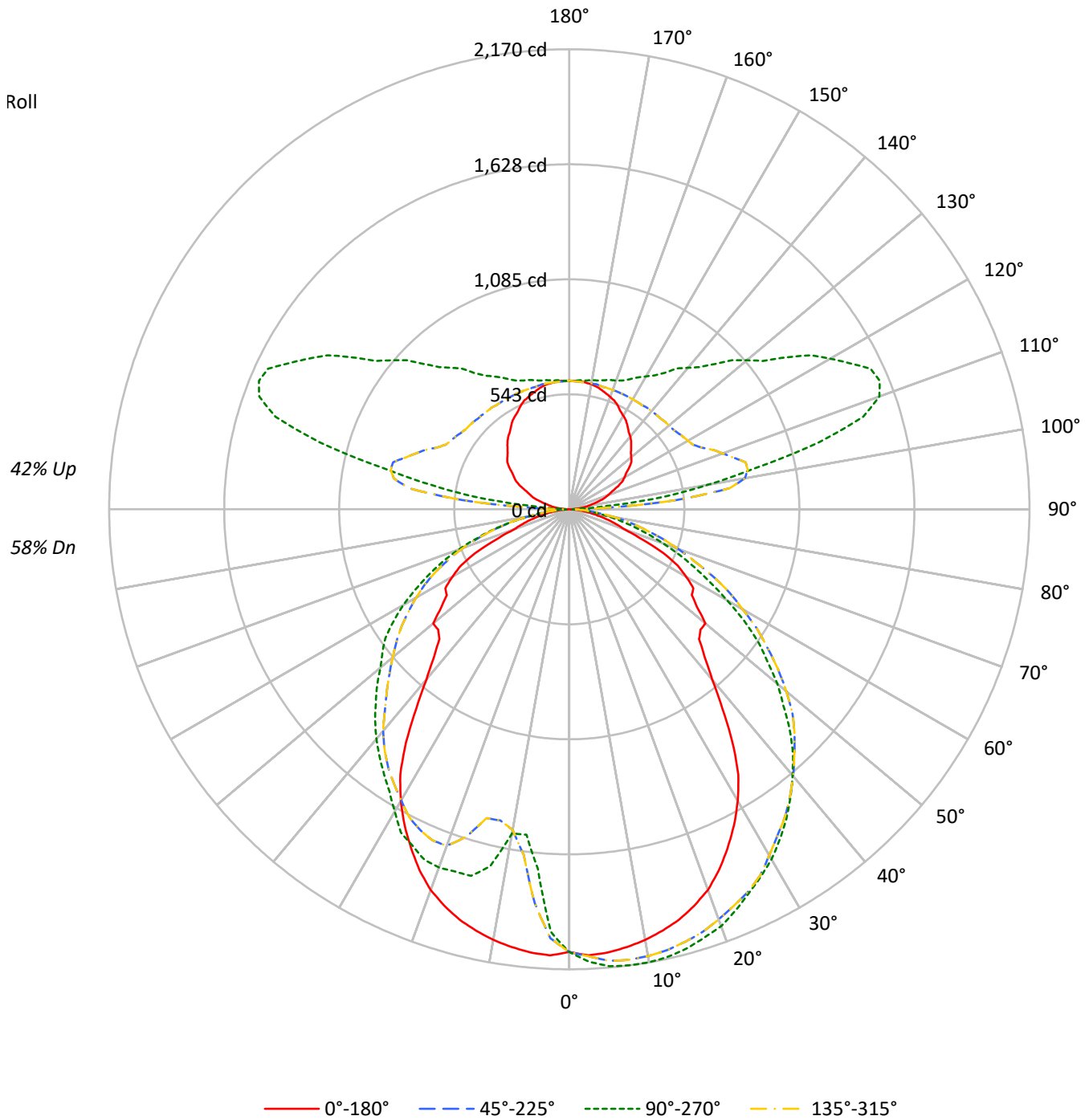
Test Method: LM-79-2019  
Report Number: P934320  
REPORT IS A COMBINATION OF REPORTS P933696 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9351.5 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 72.8  
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9690	9690	9690	9690
5°	9762	9782	9762	7691
10°	9697	9635	9697	6889
15°	9592	9427	9592	7872
20°	9391	9179	9391	7888
25°	8981	8818	8981	7720
30°	8450	8519	8450	7354
35°	7533	8140	7533	6950
40°	6277	7694	6277	6645
45°	5609	7172	5609	6295
50°	5958	6550	5958	5944
55°	5606	5879	5606	5740
60°	5779	4994	5779	5258
65°	5239	4128	5239	4614
70°	3628	3290	3628	3868
75°	3181	2432	3181	2912
80°	2565	1607	2565	1750
85°	1472	851	1472	724

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8596 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.5	2.0
10°-20°	535.3	5.7
20°-30°	827.4	8.8
30°-40°	987.8	10.6
40°-50°	993.6	10.6
50°-60°	864.6	9.2
60°-70°	613.0	6.6
70°-80°	324.3	3.5
80°-90°	83.1	0.9
90°-100°	295.8	3.2
100°-110°	777.7	8.3
110°-120°	806.4	8.6
120°-130°	646.8	6.9
130°-140°	507.5	5.4
140°-150°	389.5	4.2
150°-160°	280.5	3.0
160°-170°	171.6	1.8
170°-180°	58.0	0.6
0°-30°	1551.2	16.6
0°-40°	2539.0	27.2
0°-60°	4397.2	47.0
0°-90°	5417.6	57.9
90°-120°	1879.9	20.1
90°-150°	3423.7	36.6
90°-180°	3934.0	42.1
0°-180°	9351.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2088	2088	2088	2088	2088	
5°	2098	2164	2098	1701	2098	199
15°	2004	2144	2004	1790	2004	564
25°	1764	2000	1764	1751	1764	810
35°	1342	1784	1342	1523	1342	830
45°	866	1470	866	1290	866	693
55°	705	1085	705	1059	705	648
65°	490	654	490	731	490	468
75°	186	310	186	372	186	195
85°	32	79	32	67	32	43
90°	4	16	4	16	4	5
95°	39	179	39	179	39	43
105°	140	1218	140	1218	140	149
115°	249	1568	249	1568	249	246
125°	346	1249	346	1249	346	307
135°	413	969	413	969	413	319
145°	479	786	479	786	479	300
155°	541	677	541	677	541	249
165°	584	630	584	630	584	165
175°	607	611	607	611	607	58
180°	607	607	607	607	607	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2106.3	2106.3	2118.2	2122.1	2122.1	2116.2	2110.3	2116.2	2134.0	2139.9	2137.9
5°	2098.4	2114.2	2136.0	2139.9	2143.9	2141.9	2137.9	2141.9	2161.6	2165.6	2167.6
7.5°	2082.6	2112.2	2139.9	2145.8	2151.8	2145.8	2143.9	2147.8	2167.6	2171.5	2171.5
10°	2062.8	2104.3	2136.0	2139.9	2145.8	2139.9	2139.9	2147.8	2167.6	2171.5	2173.5
12.5°	2035.2	2092.5	2122.1	2126.1	2134.0	2132.0	2130.0	2137.9	2157.7	2161.6	2161.6
15°	2003.6	2070.7	2098.4	2102.4	2116.2	2112.2	2112.2	2120.1	2141.9	2147.8	2145.8
17.5°	1960.1	2043.1	2074.7	2080.6	2090.5	2088.5	2090.5	2098.4	2118.2	2122.1	2124.1
20°	1910.7	2005.5	2043.1	2049.0	2058.9	2058.9	2058.9	2068.8	2088.5	2096.4	2096.4
22.5°	1843.5	1966.0	2005.5	2009.5	2021.3	2021.3	2025.3	2039.1	2056.9	2058.9	2058.9
25°	1764.5	1922.5	1956.1	1968.0	1979.9	1985.8	1991.7	1999.6	2005.5	2003.6	2005.5
27.5°	1681.5	1867.2	1910.7	1918.6	1934.4	1940.3	1948.2	1950.2	1952.2	1958.1	1954.2
30°	1588.6	1790.2	1855.4	1863.3	1889.0	1892.9	1885.0	1889.0	1898.8	1902.8	1906.7
32.5°	1483.9	1675.5	1798.1	1815.8	1839.6	1827.7	1825.7	1831.7	1847.5	1847.5	1851.4
35°	1341.6	1586.6	1744.7	1760.5	1778.3	1764.5	1772.4	1774.3	1784.2	1790.2	1788.2
37.5°	1185.5	1509.6	1689.4	1701.2	1715.1	1697.3	1709.1	1715.1	1723.0	1719.0	1719.0
40°	1047.3	1389.0	1624.2	1632.1	1643.9	1630.1	1642.0	1645.9	1649.9	1645.9	1643.9
42.5°	944.5	1256.6	1555.0	1564.9	1557.0	1566.9	1570.8	1578.7	1572.8	1564.9	1564.9
45°	865.5	1221.1	1479.9	1491.8	1479.9	1495.7	1501.7	1501.7	1483.9	1479.9	1477.9
47.5°	839.8	1150.0	1404.8	1404.8	1398.9	1418.7	1428.5	1414.7	1396.9	1391.0	1391.0
50°	837.8	1071.0	1302.1	1294.2	1321.8	1345.6	1335.7	1321.8	1308.0	1286.3	1286.3
52.5°	760.8	974.2	1169.8	1199.3	1242.8	1256.6	1240.8	1227.0	1203.3	1193.4	1185.5
55°	705.4	873.4	1049.3	1108.5	1154.0	1171.8	1142.1	1128.3	1092.7	1086.8	1082.8
57.5°	693.6	727.2	938.6	1013.7	1069.0	1067.0	1049.3	1023.6	993.9	988.0	986.0
60°	636.3	525.6	820.0	909.0	966.3	960.3	944.5	920.8	893.2	889.2	885.2
62.5°	577.0	381.4	685.7	786.4	867.5	865.5	851.7	816.1	796.3	786.4	778.5
65°	490.0	320.1	488.1	654.1	770.6	774.6	745.0	719.3	697.5	685.7	683.7
67.5°	373.5	260.8	330.0	545.4	677.8	673.8	636.3	624.4	596.8	590.8	579.0
70°	276.6	173.9	229.2	442.6	586.9	577.0	547.4	533.5	507.8	494.0	486.1
72.5°	229.2	140.3	168.0	343.8	494.0	482.1	456.5	440.6	418.9	407.1	399.2
75°	185.7	148.2	128.4	254.9	401.1	393.2	369.5	353.7	335.9	320.1	322.1
77.5°	136.3	138.3	102.8	187.7	318.1	306.3	292.4	272.7	264.8	249.0	249.0
80°	102.8	108.7	77.1	128.4	229.2	229.2	217.4	203.5	189.7	181.8	181.8
82.5°	69.2	69.2	57.3	81.0	156.1	150.2	142.3	138.3	130.4	126.5	126.5
85°	31.6	39.5	35.6	49.4	85.0	88.9	88.9	85.0	83.0	79.0	81.0
87.5°	9.9	17.8	21.7	27.7	43.5	45.4	47.4	47.4	47.4	49.4	49.4
90°	4.1	7.3	10.6	11.4	17.9	26.6	30.9	27.5	20.6	15.5	15.5
92.5°	16.3	44.0	71.7	78.6	110.6	153.0	174.3	152.7	109.7	77.4	74.3
95°	39.1	89.8	140.5	153.1	271.9	430.3	509.5	454.7	345.0	262.7	253.4
97.5°	67.6	112.2	157.0	168.2	366.3	630.3	762.4	727.8	658.4	606.4	588.7
100°	89.6	130.1	170.6	180.8	400.6	693.7	840.2	842.8	847.8	851.6	830.4
102.5°	108.4	146.2	184.0	193.5	416.3	713.6	862.2	906.4	994.7	1060.9	1042.8
105°	140.1	172.1	204.2	212.2	428.1	715.9	859.8	958.8	1156.8	1305.3	1295.6
107.5°	172.7	202.5	232.4	239.9	430.2	684.0	810.9	949.0	1225.2	1432.4	1434.8
110°	194.6	221.6	248.7	255.4	427.0	655.7	770.1	924.6	1233.3	1464.9	1475.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	216.3	242.0	267.6	274.1	427.1	631.1	733.1	891.1	1207.1	1444.2	1459.8
115°	248.9	272.6	296.3	302.2	431.1	602.9	688.7	841.0	1145.4	1373.7	1395.3
117.5°	281.0	302.5	324.1	329.5	439.1	585.1	658.1	795.5	1070.3	1276.4	1300.3
120°	299.8	320.0	340.4	345.4	445.6	579.2	646.0	771.4	1022.5	1210.8	1234.0
122.5°	318.0	338.5	358.9	364.1	454.9	576.0	636.6	749.6	975.7	1145.3	1168.2
125°	346.2	364.8	383.4	388.1	467.5	573.4	626.4	722.4	914.5	1058.5	1079.7
127.5°	369.0	387.8	406.6	411.3	480.2	572.0	617.8	700.3	865.2	988.9	1006.7
130°	381.2	401.4	421.8	426.8	489.4	572.8	614.5	687.9	834.8	944.8	961.3
132.5°	393.8	414.1	434.4	439.5	496.9	573.4	611.8	677.5	808.9	907.4	922.1
135°	412.6	431.1	449.4	454.1	505.0	572.8	606.8	661.9	771.9	854.4	867.2
137.5°	431.8	450.0	468.3	472.9	517.2	576.4	606.0	652.6	745.6	815.4	825.8
140°	447.6	464.5	481.3	485.5	524.7	577.0	603.2	643.4	723.7	784.0	793.7
142.5°	459.8	475.3	490.9	494.8	531.0	579.1	603.2	638.4	709.1	762.0	770.4
145°	478.6	492.1	505.8	509.1	539.2	579.2	599.1	628.0	685.8	729.0	735.4
147.5°	497.3	510.5	523.7	527.0	551.0	583.1	599.1	621.8	667.2	701.3	706.5
150°	509.5	521.5	533.4	536.4	557.3	585.2	599.1	618.3	656.7	685.5	689.7
152.5°	522.2	531.2	540.2	542.5	561.4	586.6	599.1	615.5	648.2	672.8	676.1
155°	540.8	547.5	554.3	555.9	570.4	589.5	599.1	612.2	638.1	657.7	659.9
157.5°	554.7	561.2	567.7	569.4	579.3	592.5	599.1	609.2	629.5	644.7	646.2
160°	564.0	569.2	574.2	575.5	583.4	593.9	599.1	607.8	625.1	638.1	639.0
162.5°	573.4	577.3	581.0	582.0	587.8	595.4	599.1	606.4	621.2	632.1	632.9
165°	583.6	587.1	590.4	591.3	593.9	597.3	599.1	604.4	614.8	622.7	623.6
167.5°	593.0	594.6	596.3	596.7	598.8	601.7	603.2	606.6	613.5	618.7	619.1
170°	599.1	600.7	602.4	602.8	602.9	603.1	603.2	606.6	613.5	618.7	618.7
172.5°	602.4	602.8	603.1	603.2	603.2	603.2	603.2	605.9	611.4	615.4	615.1
175°	606.8	606.8	606.8	606.8	605.6	604.0	603.2	604.9	608.3	610.9	610.9
177.5°	606.8	606.8	606.8	606.8	605.8	604.6	604.0	605.3	608.0	610.1	609.7
180°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2141.9	2136.0	2141.9	2137.9	2139.9	2134.0	2116.2	2110.3	2116.2	2122.1	2122.1
5°	2167.6	2163.6	2167.6	2167.6	2165.6	2161.6	2141.9	2137.9	2141.9	2143.9	2139.9
7.5°	2175.5	2169.5	2175.5	2171.5	2171.5	2167.6	2147.8	2143.9	2145.8	2151.8	2145.8
10°	2175.5	2169.5	2175.5	2173.5	2171.5	2167.6	2147.8	2139.9	2139.9	2145.8	2139.9
12.5°	2165.6	2161.6	2165.6	2161.6	2161.6	2157.7	2137.9	2130.0	2132.0	2134.0	2126.1
15°	2149.8	2143.9	2149.8	2145.8	2147.8	2141.9	2120.1	2112.2	2112.2	2116.2	2102.4
17.5°	2126.1	2118.2	2126.1	2124.1	2122.1	2118.2	2098.4	2090.5	2088.5	2090.5	2080.6
20°	2098.4	2092.5	2098.4	2096.4	2096.4	2088.5	2068.8	2058.9	2058.9	2058.9	2049.0
22.5°	2054.9	2049.0	2054.9	2058.9	2058.9	2056.9	2039.1	2025.3	2021.3	2021.3	2009.5
25°	2005.5	1999.6	2005.5	2005.5	2003.6	2005.5	1999.6	1991.7	1985.8	1979.9	1968.0
27.5°	1958.1	1954.2	1958.1	1954.2	1958.1	1952.2	1950.2	1948.2	1940.3	1934.4	1918.6
30°	1910.7	1906.7	1910.7	1906.7	1902.8	1898.8	1889.0	1885.0	1892.9	1889.0	1863.3
32.5°	1851.4	1847.5	1851.4	1851.4	1847.5	1847.5	1831.7	1825.7	1827.7	1839.6	1815.8
35°	1790.2	1784.2	1790.2	1788.2	1790.2	1784.2	1774.3	1772.4	1764.5	1778.3	1760.5
37.5°	1719.0	1713.1	1719.0	1719.0	1719.0	1723.0	1715.1	1709.1	1697.3	1715.1	1701.2
40°	1645.9	1638.0	1645.9	1643.9	1645.9	1649.9	1645.9	1642.0	1630.1	1643.9	1632.1
42.5°	1562.9	1560.9	1562.9	1564.9	1564.9	1572.8	1578.7	1570.8	1566.9	1557.0	1564.9
45°	1474.0	1470.0	1474.0	1477.9	1479.9	1483.9	1501.7	1501.7	1495.7	1479.9	1491.8
47.5°	1379.1	1369.3	1379.1	1391.0	1391.0	1396.9	1414.7	1428.5	1418.7	1398.9	1404.8
50°	1278.4	1280.3	1278.4	1286.3	1286.3	1308.0	1321.8	1335.7	1345.6	1321.8	1294.2
52.5°	1179.6	1177.7	1179.6	1185.5	1193.4	1203.3	1227.0	1240.8	1256.6	1242.8	1199.3
55°	1080.9	1084.8	1080.9	1082.8	1086.8	1092.7	1128.3	1142.1	1171.8	1154.0	1108.5
57.5°	982.1	976.1	982.1	986.0	988.0	993.9	1023.6	1049.3	1067.0	1069.0	1013.7
60°	867.5	859.6	867.5	885.2	889.2	893.2	920.8	944.5	960.3	966.3	909.0
62.5°	766.7	752.9	766.7	778.5	786.4	796.3	816.1	851.7	865.5	867.5	786.4
65°	660.0	654.1	660.0	683.7	685.7	697.5	719.3	745.0	774.6	770.6	654.1
67.5°	563.2	563.2	563.2	579.0	590.8	596.8	624.4	636.3	673.8	677.8	545.4
70°	474.2	472.3	474.2	486.1	494.0	507.8	533.5	547.4	577.0	586.9	442.6
72.5°	389.3	387.3	389.3	399.2	407.1	418.9	440.6	456.5	482.1	494.0	343.8
75°	314.2	310.2	314.2	322.1	320.1	335.9	353.7	369.5	393.2	401.1	254.9
77.5°	241.1	241.1	241.1	249.0	249.0	264.8	272.7	292.4	306.3	318.1	187.7
80°	179.8	177.8	179.8	181.8	181.8	189.7	203.5	217.4	229.2	229.2	128.4
82.5°	126.5	122.5	126.5	126.5	126.5	130.4	138.3	142.3	150.2	156.1	81.0
85°	79.0	79.0	79.0	81.0	79.0	83.0	85.0	88.9	88.9	85.0	49.4
87.5°	51.4	49.4	51.4	49.4	49.4	47.4	47.4	47.4	45.4	43.5	27.7
90°	15.5	15.5	15.5	15.5	15.5	20.6	27.5	30.9	26.6	17.9	11.4
92.5°	61.9	49.7	61.9	74.3	77.4	109.7	152.7	174.3	153.0	110.6	78.6
95°	216.1	178.8	216.1	253.4	262.7	345.0	454.7	509.5	430.3	271.9	153.1
97.5°	517.7	446.8	517.7	588.7	606.4	658.4	727.8	762.4	630.3	366.3	168.2
100°	745.9	661.4	745.9	830.4	851.6	847.8	842.8	840.2	693.7	400.6	180.8
102.5°	970.4	898.0	970.4	1042.8	1060.9	994.7	906.4	862.2	713.6	416.3	193.5
105°	1256.6	1217.7	1256.6	1295.6	1305.3	1156.8	958.8	859.8	715.9	428.1	212.2
107.5°	1444.2	1453.5	1444.2	1434.8	1432.4	1225.2	949.0	810.9	684.0	430.2	239.9
110°	1515.6	1556.2	1515.6	1475.1	1464.9	1233.3	924.6	770.1	655.7	427.0	255.4





TEST NUMBER: P934320

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1522.0	1584.3	1522.0	1459.8	1444.2	1207.1	891.1	733.1	631.1	427.1	274.1
115°	1481.6	1568.0	1481.6	1395.3	1373.7	1145.4	841.0	688.7	602.9	431.1	302.2
117.5°	1396.1	1491.9	1396.1	1300.3	1276.4	1070.3	795.5	658.1	585.1	439.1	329.5
120°	1327.1	1420.2	1327.1	1234.0	1210.8	1022.5	771.4	646.0	579.2	445.6	345.4
122.5°	1260.0	1351.8	1260.0	1168.2	1145.3	975.7	749.6	636.6	576.0	454.9	364.1
125°	1164.2	1248.7	1164.2	1079.7	1058.5	914.5	722.4	626.4	573.4	467.5	388.1
127.5°	1078.0	1149.3	1078.0	1006.7	988.9	865.2	700.3	617.8	572.0	480.2	411.3
130°	1027.2	1093.1	1027.2	961.3	944.8	834.8	687.9	614.5	572.8	489.4	426.8
132.5°	981.2	1040.2	981.2	922.1	907.4	808.9	677.5	611.8	573.4	496.9	439.5
135°	918.0	968.9	918.0	867.2	854.4	771.9	661.9	606.8	572.8	505.0	454.1
137.5°	867.5	909.1	867.5	825.8	815.4	745.6	652.6	606.0	576.4	517.2	472.9
140°	832.6	871.5	832.6	793.7	784.0	723.7	643.4	603.2	577.0	524.7	485.5
142.5°	803.8	837.3	803.8	770.4	762.0	709.1	638.4	603.2	579.1	531.0	494.8
145°	760.8	786.1	760.8	735.4	729.0	685.8	628.0	599.1	579.2	539.2	509.1
147.5°	727.6	748.6	727.6	706.5	701.3	667.2	621.8	599.1	583.1	551.0	527.0
150°	706.7	723.7	706.7	689.7	685.5	656.7	618.3	599.1	585.2	557.3	536.4
152.5°	688.9	701.8	688.9	676.1	672.8	648.2	615.5	599.1	586.6	561.4	542.5
155°	668.4	676.9	668.4	659.9	657.7	638.1	612.2	599.1	589.5	570.4	555.9
157.5°	652.2	658.1	652.2	646.2	644.7	629.5	609.2	599.1	592.5	579.3	569.4
160°	642.5	646.0	642.5	639.0	638.1	625.1	607.8	599.1	593.9	583.4	575.5
162.5°	636.2	639.4	636.2	632.9	632.1	621.2	606.4	599.1	595.4	587.8	582.0
165°	627.0	630.4	627.0	623.6	622.7	614.8	604.4	599.1	597.3	593.9	591.3
167.5°	620.5	621.9	620.5	619.1	618.7	613.5	606.6	603.2	601.7	598.8	596.7
170°	618.7	618.7	618.7	618.7	618.7	613.5	606.6	603.2	603.1	602.9	602.8
172.5°	613.8	612.6	613.8	615.1	615.4	611.4	605.9	603.2	603.2	603.2	603.2
175°	610.9	610.9	610.9	610.9	610.9	608.3	604.9	603.2	604.0	605.6	606.8
177.5°	608.3	606.8	608.3	609.7	610.1	608.0	605.3	604.0	604.6	605.8	606.8
180°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8



TEST NUMBER: P934320

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2118.2	2106.3	2106.3	2086.6	2078.7	2072.7	2062.8	2033.2	2025.3	2017.4	2029.3
5°	2136.0	2114.2	2098.4	2062.8	2033.2	2021.3	1983.8	1912.7	1865.2	1829.7	1809.9
7.5°	2139.9	2112.2	2082.6	2027.3	1956.1	1924.5	1809.9	1679.5	1643.9	1612.3	1592.6
10°	2136.0	2104.3	2062.8	1979.9	1811.9	1756.6	1642.0	1557.0	1535.3	1529.3	1535.3
12.5°	2122.1	2092.5	2035.2	1896.9	1661.7	1624.2	1557.0	1507.6	1503.6	1513.5	1566.9
15°	2098.4	2070.7	2003.6	1786.2	1578.7	1551.1	1503.6	1485.9	1507.6	1576.7	1736.8
17.5°	2074.7	2043.1	1960.1	1677.5	1515.5	1495.7	1462.1	1497.7	1620.2	1713.1	1766.4
20°	2043.1	2005.5	1910.7	1598.5	1470.0	1452.3	1436.5	1596.5	1689.4	1723.0	1752.6
22.5°	2005.5	1966.0	1843.5	1543.2	1422.6	1408.8	1418.7	1651.8	1689.4	1713.1	1738.8
25°	1956.1	1922.5	1764.5	1499.7	1385.1	1369.3	1406.8	1645.9	1667.6	1673.6	1724.9
27.5°	1910.7	1867.2	1681.5	1460.2	1339.6	1333.7	1416.7	1620.2	1636.0	1642.0	1697.3
30°	1855.4	1790.2	1588.6	1418.7	1292.2	1290.2	1418.7	1588.6	1584.7	1600.5	1655.8
32.5°	1798.1	1675.5	1483.9	1367.3	1246.8	1244.8	1404.8	1541.2	1537.2	1559.0	1600.5
35°	1744.7	1586.6	1341.6	1308.0	1189.5	1191.4	1371.2	1485.9	1487.8	1507.6	1533.3
37.5°	1689.4	1509.6	1185.5	1242.8	1134.2	1134.2	1325.8	1434.5	1430.5	1436.5	1472.0
40°	1624.2	1389.0	1047.3	1157.9	1082.8	1076.9	1270.5	1379.1	1365.3	1363.3	1412.7
42.5°	1555.0	1256.6	944.5	1045.3	1023.6	1015.7	1203.3	1312.0	1286.3	1292.2	1355.4
45°	1479.9	1221.1	865.5	883.3	962.3	956.4	1130.3	1234.9	1217.1	1232.9	1298.1
47.5°	1404.8	1150.0	839.8	733.1	897.1	895.1	1049.3	1159.9	1150.0	1165.8	1234.9
50°	1302.1	1071.0	837.8	628.4	824.0	831.9	952.4	1086.8	1086.8	1100.6	1173.7
52.5°	1169.8	974.2	760.8	569.1	739.0	762.7	867.5	1023.6	1027.5	1041.4	1106.6
55°	1049.3	873.4	705.4	523.6	638.2	689.6	784.5	958.4	966.3	980.1	1039.4
57.5°	938.6	727.2	693.6	470.3	545.4	594.8	711.4	895.1	899.1	910.9	968.2
60°	820.0	525.6	636.3	413.0	464.4	501.9	644.2	820.0	833.9	841.8	891.2
62.5°	685.7	381.4	577.0	373.5	424.8	432.7	588.8	748.9	766.7	772.6	802.3
65°	488.1	320.1	490.0	339.9	383.3	385.3	529.6	675.8	691.6	701.5	723.2
67.5°	330.0	260.8	373.5	308.3	351.7	353.7	472.3	590.8	612.6	620.5	634.3
70°	229.2	173.9	276.6	274.7	316.2	320.1	411.0	513.8	533.5	539.4	547.4
72.5°	168.0	140.3	229.2	247.0	278.6	282.6	347.8	426.8	446.6	452.5	456.5
75°	128.4	148.2	185.7	215.4	237.1	239.1	284.5	347.8	361.6	365.6	367.5
77.5°	102.8	138.3	136.3	173.9	193.6	189.7	223.3	268.7	280.6	280.6	280.6
80°	77.1	108.7	102.8	124.5	142.3	138.3	160.1	191.7	195.6	199.6	197.6
82.5°	57.3	69.2	69.2	79.0	94.8	90.9	106.7	124.5	124.5	124.5	128.4
85°	35.6	39.5	31.6	41.5	53.4	51.4	59.3	67.2	69.2	69.2	65.2
87.5°	21.7	17.8	9.9	15.8	23.7	23.7	27.7	29.6	27.7	27.7	27.7
90°	10.6	7.3	4.1	7.3	10.6	11.4	17.9	26.6	30.9	27.5	20.6
92.5°	71.7	44.0	16.3	44.0	71.7	78.6	110.6	153.0	174.3	152.7	109.7
95°	140.5	89.8	39.1	89.8	140.5	153.1	271.9	430.3	509.5	454.7	345.0
97.5°	157.0	112.2	67.6	112.2	157.0	168.2	366.3	630.3	762.4	727.8	658.4
100°	170.6	130.1	89.6	130.1	170.6	180.8	400.6	693.7	840.2	842.8	847.8
102.5°	184.0	146.2	108.4	146.2	184.0	193.5	416.3	713.6	862.2	906.4	994.7
105°	204.2	172.1	140.1	172.1	204.2	212.2	428.1	715.9	859.8	958.8	1156.8
107.5°	232.4	202.5	172.7	202.5	232.4	239.9	430.2	684.0	810.9	949.0	1225.2
110°	248.7	221.6	194.6	221.6	248.7	255.4	427.0	655.7	770.1	924.6	1233.3



TEST NUMBER: P934320

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	267.6	242.0	216.3	242.0	267.6	274.1	427.1	631.1	733.1	891.1	1207.1
115°	296.3	272.6	248.9	272.6	296.3	302.2	431.1	602.9	688.7	841.0	1145.4
117.5°	324.1	302.5	281.0	302.5	324.1	329.5	439.1	585.1	658.1	795.5	1070.3
120°	340.4	320.0	299.8	320.0	340.4	345.4	445.6	579.2	646.0	771.4	1022.5
122.5°	358.9	338.5	318.0	338.5	358.9	364.1	454.9	576.0	636.6	749.6	975.7
125°	383.4	364.8	346.2	364.8	383.4	388.1	467.5	573.4	626.4	722.4	914.5
127.5°	406.6	387.8	369.0	387.8	406.6	411.3	480.2	572.0	617.8	700.3	865.2
130°	421.8	401.4	381.2	401.4	421.8	426.8	489.4	572.8	614.5	687.9	834.8
132.5°	434.4	414.1	393.8	414.1	434.4	439.5	496.9	573.4	611.8	677.5	808.9
135°	449.4	431.1	412.6	431.1	449.4	454.1	505.0	572.8	606.8	661.9	771.9
137.5°	468.3	450.0	431.8	450.0	468.3	472.9	517.2	576.4	606.0	652.6	745.6
140°	481.3	464.5	447.6	464.5	481.3	485.5	524.7	577.0	603.2	643.4	723.7
142.5°	490.9	475.3	459.8	475.3	490.9	494.8	531.0	579.1	603.2	638.4	709.1
145°	505.8	492.1	478.6	492.1	505.8	509.1	539.2	579.2	599.1	628.0	685.8
147.5°	523.7	510.5	497.3	510.5	523.7	527.0	551.0	583.1	599.1	621.8	667.2
150°	533.4	521.5	509.5	521.5	533.4	536.4	557.3	585.2	599.1	618.3	656.7
152.5°	540.2	531.2	522.2	531.2	540.2	542.5	561.4	586.6	599.1	615.5	648.2
155°	554.3	547.5	540.8	547.5	554.3	555.9	570.4	589.5	599.1	612.2	638.1
157.5°	567.7	561.2	554.7	561.2	567.7	569.4	579.3	592.5	599.1	609.2	629.5
160°	574.2	569.2	564.0	569.2	574.2	575.5	583.4	593.9	599.1	607.8	625.1
162.5°	581.0	577.3	573.4	577.3	581.0	582.0	587.8	595.4	599.1	606.4	621.2
165°	590.4	587.1	583.6	587.1	590.4	591.3	593.9	597.3	599.1	604.4	614.8
167.5°	596.3	594.6	593.0	594.6	596.3	596.7	598.8	601.7	603.2	606.6	613.5
170°	602.4	600.7	599.1	600.7	602.4	602.8	602.9	603.1	603.2	606.6	613.5
172.5°	603.1	602.8	602.4	602.8	603.1	603.2	603.2	603.2	603.2	605.9	611.4
175°	606.8	606.8	606.8	606.8	606.8	606.8	605.6	604.0	603.2	604.9	608.3
177.5°	606.8	606.8	606.8	606.8	606.8	606.8	605.8	604.6	604.0	605.3	608.0
180°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8



TEST NUMBER: P934320  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2015.4	2009.5	2017.4	1995.7	2017.4	2009.5	2015.4	2029.3	2017.4	2025.3	2033.2
5°	1768.4	1758.5	1726.9	1701.2	1726.9	1758.5	1768.4	1809.9	1829.7	1865.2	1912.7
7.5°	1580.7	1572.8	1564.9	1549.1	1564.9	1572.8	1580.7	1592.6	1612.3	1643.9	1679.5
10°	1539.2	1541.2	1553.0	1551.1	1553.0	1541.2	1539.2	1535.3	1529.3	1535.3	1557.0
12.5°	1645.9	1663.7	1728.9	1724.9	1728.9	1663.7	1645.9	1566.9	1513.5	1503.6	1507.6
15°	1768.4	1774.3	1788.2	1790.2	1788.2	1774.3	1768.4	1736.8	1576.7	1507.6	1485.9
17.5°	1780.3	1782.3	1792.1	1792.1	1792.1	1782.3	1780.3	1766.4	1713.1	1620.2	1497.7
20°	1770.4	1774.3	1794.1	1798.1	1794.1	1774.3	1770.4	1752.6	1723.0	1689.4	1596.5
22.5°	1766.4	1774.3	1790.2	1788.2	1790.2	1774.3	1766.4	1738.8	1713.1	1689.4	1651.8
25°	1746.7	1746.7	1748.7	1750.6	1748.7	1746.7	1746.7	1724.9	1673.6	1667.6	1645.9
27.5°	1705.2	1709.1	1721.0	1719.0	1721.0	1709.1	1705.2	1697.3	1642.0	1636.0	1620.2
30°	1667.6	1663.7	1653.8	1645.9	1653.8	1663.7	1667.6	1655.8	1600.5	1584.7	1588.6
32.5°	1604.4	1594.5	1584.7	1578.7	1584.7	1594.5	1604.4	1600.5	1559.0	1537.2	1541.2
35°	1529.3	1531.3	1529.3	1523.4	1529.3	1531.3	1529.3	1533.3	1507.6	1487.8	1485.9
37.5°	1476.0	1479.9	1477.9	1470.0	1477.9	1479.9	1476.0	1472.0	1436.5	1430.5	1434.5
40°	1420.6	1422.6	1420.6	1414.7	1420.6	1422.6	1420.6	1412.7	1363.3	1365.3	1379.1
42.5°	1367.3	1365.3	1359.4	1355.4	1359.4	1365.3	1367.3	1355.4	1292.2	1286.3	1312.0
45°	1306.0	1308.0	1296.2	1290.2	1296.2	1308.0	1306.0	1298.1	1232.9	1217.1	1234.9
47.5°	1244.8	1244.8	1234.9	1229.0	1234.9	1244.8	1244.8	1234.9	1165.8	1150.0	1159.9
50°	1179.6	1177.7	1163.9	1161.9	1163.9	1177.7	1179.6	1173.7	1100.6	1086.8	1086.8
52.5°	1104.6	1104.6	1106.6	1110.5	1106.6	1104.6	1104.6	1106.6	1041.4	1027.5	1023.6
55°	1039.4	1041.4	1055.2	1059.1	1055.2	1041.4	1039.4	1039.4	980.1	966.3	958.4
57.5°	972.2	972.2	982.1	982.1	982.1	972.2	972.2	968.2	910.9	899.1	895.1
60°	895.1	899.1	907.0	905.0	907.0	899.1	895.1	891.2	841.8	833.9	820.0
62.5°	814.1	818.1	820.0	816.1	820.0	818.1	814.1	802.3	772.6	766.7	748.9
65°	729.1	733.1	735.1	731.1	735.1	733.1	729.1	723.2	701.5	691.6	675.8
67.5°	642.2	640.2	638.2	646.2	638.2	640.2	642.2	634.3	620.5	612.6	590.8
70°	553.3	553.3	551.3	555.3	551.3	553.3	553.3	547.4	539.4	533.5	513.8
72.5°	458.4	456.5	464.4	458.4	464.4	456.5	458.4	456.5	452.5	446.6	426.8
75°	365.6	369.5	365.6	371.5	365.6	369.5	365.6	367.5	365.6	361.6	347.8
77.5°	278.6	282.6	278.6	278.6	278.6	282.6	278.6	280.6	280.6	280.6	268.7
80°	197.6	195.6	195.6	193.6	195.6	195.6	197.6	197.6	199.6	195.6	191.7
82.5°	126.5	124.5	124.5	128.4	124.5	124.5	126.5	128.4	124.5	124.5	124.5
85°	69.2	71.1	67.2	67.2	67.2	71.1	69.2	65.2	69.2	69.2	67.2
87.5°	25.7	23.7	23.7	23.7	23.7	23.7	25.7	27.7	27.7	27.7	29.6
90°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	20.6	27.5	30.9	26.6
92.5°	77.4	74.3	61.9	49.7	61.9	74.3	77.4	109.7	152.7	174.3	153.0
95°	262.7	253.4	216.1	178.8	216.1	253.4	262.7	345.0	454.7	509.5	430.3
97.5°	606.4	588.7	517.7	446.8	517.7	588.7	606.4	658.4	727.8	762.4	630.3
100°	851.6	830.4	745.9	661.4	745.9	830.4	851.6	847.8	842.8	840.2	693.7
102.5°	1060.9	1042.8	970.4	898.0	970.4	1042.8	1060.9	994.7	906.4	862.2	713.6
105°	1305.3	1295.6	1256.6	1217.7	1256.6	1295.6	1305.3	1156.8	958.8	859.8	715.9
107.5°	1432.4	1434.8	1444.2	1453.5	1444.2	1434.8	1432.4	1225.2	949.0	810.9	684.0
110°	1464.9	1475.1	1515.6	1556.2	1515.6	1475.1	1464.9	1233.3	924.6	770.1	655.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1444.2	1459.8	1522.0	1584.3	1522.0	1459.8	1444.2	1207.1	891.1	733.1	631.1
115°	1373.7	1395.3	1481.6	1568.0	1481.6	1395.3	1373.7	1145.4	841.0	688.7	602.9
117.5°	1276.4	1300.3	1396.1	1491.9	1396.1	1300.3	1276.4	1070.3	795.5	658.1	585.1
120°	1210.8	1234.0	1327.1	1420.2	1327.1	1234.0	1210.8	1022.5	771.4	646.0	579.2
122.5°	1145.3	1168.2	1260.0	1351.8	1260.0	1168.2	1145.3	975.7	749.6	636.6	576.0
125°	1058.5	1079.7	1164.2	1248.7	1164.2	1079.7	1058.5	914.5	722.4	626.4	573.4
127.5°	988.9	1006.7	1078.0	1149.3	1078.0	1006.7	988.9	865.2	700.3	617.8	572.0
130°	944.8	961.3	1027.2	1093.1	1027.2	961.3	944.8	834.8	687.9	614.5	572.8
132.5°	907.4	922.1	981.2	1040.2	981.2	922.1	907.4	808.9	677.5	611.8	573.4
135°	854.4	867.2	918.0	968.9	918.0	867.2	854.4	771.9	661.9	606.8	572.8
137.5°	815.4	825.8	867.5	909.1	867.5	825.8	815.4	745.6	652.6	606.0	576.4
140°	784.0	793.7	832.6	871.5	832.6	793.7	784.0	723.7	643.4	603.2	577.0
142.5°	762.0	770.4	803.8	837.3	803.8	770.4	762.0	709.1	638.4	603.2	579.1
145°	729.0	735.4	760.8	786.1	760.8	735.4	729.0	685.8	628.0	599.1	579.2
147.5°	701.3	706.5	727.6	748.6	727.6	706.5	701.3	667.2	621.8	599.1	583.1
150°	685.5	689.7	706.7	723.7	706.7	689.7	685.5	656.7	618.3	599.1	585.2
152.5°	672.8	676.1	688.9	701.8	688.9	676.1	672.8	648.2	615.5	599.1	586.6
155°	657.7	659.9	668.4	676.9	668.4	659.9	657.7	638.1	612.2	599.1	589.5
157.5°	644.7	646.2	652.2	658.1	652.2	646.2	644.7	629.5	609.2	599.1	592.5
160°	638.1	639.0	642.5	646.0	642.5	639.0	638.1	625.1	607.8	599.1	593.9
162.5°	632.1	632.9	636.2	639.4	636.2	632.9	632.1	621.2	606.4	599.1	595.4
165°	622.7	623.6	627.0	630.4	627.0	623.6	622.7	614.8	604.4	599.1	597.3
167.5°	618.7	619.1	620.5	621.9	620.5	619.1	618.7	613.5	606.6	603.2	601.7
170°	618.7	618.7	618.7	618.7	618.7	618.7	618.7	613.5	606.6	603.2	603.1
172.5°	615.4	615.1	613.8	612.6	613.8	615.1	615.4	611.4	605.9	603.2	603.2
175°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	608.3	604.9	603.2	604.0
177.5°	610.1	609.7	608.3	606.8	608.3	609.7	610.1	608.0	605.3	604.0	604.6
180°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2062.8	2072.7	2078.7	2086.6	2106.3
5°	1983.8	2021.3	2033.2	2062.8	2098.4
7.5°	1809.9	1924.5	1956.1	2027.3	2082.6
10°	1642.0	1756.6	1811.9	1979.9	2062.8
12.5°	1557.0	1624.2	1661.7	1896.9	2035.2
15°	1503.6	1551.1	1578.7	1786.2	2003.6
17.5°	1462.1	1495.7	1515.5	1677.5	1960.1
20°	1436.5	1452.3	1470.0	1598.5	1910.7
22.5°	1418.7	1408.8	1422.6	1543.2	1843.5
25°	1406.8	1369.3	1385.1	1499.7	1764.5
27.5°	1416.7	1333.7	1339.6	1460.2	1681.5
30°	1418.7	1290.2	1292.2	1418.7	1588.6
32.5°	1404.8	1244.8	1246.8	1367.3	1483.9
35°	1371.2	1191.4	1189.5	1308.0	1341.6
37.5°	1325.8	1134.2	1134.2	1242.8	1185.5
40°	1270.5	1076.9	1082.8	1157.9	1047.3
42.5°	1203.3	1015.7	1023.6	1045.3	944.5
45°	1130.3	956.4	962.3	883.3	865.5
47.5°	1049.3	895.1	897.1	733.1	839.8
50°	952.4	831.9	824.0	628.4	837.8
52.5°	867.5	762.7	739.0	569.1	760.8
55°	784.5	689.6	638.2	523.6	705.4
57.5°	711.4	594.8	545.4	470.3	693.6
60°	644.2	501.9	464.4	413.0	636.3
62.5°	588.8	432.7	424.8	373.5	577.0
65°	529.6	385.3	383.3	339.9	490.0
67.5°	472.3	353.7	351.7	308.3	373.5
70°	411.0	320.1	316.2	274.7	276.6
72.5°	347.8	282.6	278.6	247.0	229.2
75°	284.5	239.1	237.1	215.4	185.7
77.5°	223.3	189.7	193.6	173.9	136.3
80°	160.1	138.3	142.3	124.5	102.8
82.5°	106.7	90.9	94.8	79.0	69.2
85°	59.3	51.4	53.4	41.5	31.6
87.5°	27.7	23.7	23.7	15.8	9.9
90°	17.9	11.4	10.6	7.3	4.1
92.5°	110.6	78.6	71.7	44.0	16.3
95°	271.9	153.1	140.5	89.8	39.1
97.5°	366.3	168.2	157.0	112.2	67.6
100°	400.6	180.8	170.6	130.1	89.6
102.5°	416.3	193.5	184.0	146.2	108.4
105°	428.1	212.2	204.2	172.1	140.1
107.5°	430.2	239.9	232.4	202.5	172.7
110°	427.0	255.4	248.7	221.6	194.6



TEST NUMBER: P934320

CATALOG NUMBER: SQ4-FA-050U-075D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	427.1	274.1	267.6	242.0	216.3
115°	431.1	302.2	296.3	272.6	248.9
117.5°	439.1	329.5	324.1	302.5	281.0
120°	445.6	345.4	340.4	320.0	299.8
122.5°	454.9	364.1	358.9	338.5	318.0
125°	467.5	388.1	383.4	364.8	346.2
127.5°	480.2	411.3	406.6	387.8	369.0
130°	489.4	426.8	421.8	401.4	381.2
132.5°	496.9	439.5	434.4	414.1	393.8
135°	505.0	454.1	449.4	431.1	412.6
137.5°	517.2	472.9	468.3	450.0	431.8
140°	524.7	485.5	481.3	464.5	447.6
142.5°	531.0	494.8	490.9	475.3	459.8
145°	539.2	509.1	505.8	492.1	478.6
147.5°	551.0	527.0	523.7	510.5	497.3
150°	557.3	536.4	533.4	521.5	509.5
152.5°	561.4	542.5	540.2	531.2	522.2
155°	570.4	555.9	554.3	547.5	540.8
157.5°	579.3	569.4	567.7	561.2	554.7
160°	583.4	575.5	574.2	569.2	564.0
162.5°	587.8	582.0	581.0	577.3	573.4
165°	593.9	591.3	590.4	587.1	583.6
167.5°	598.8	596.7	596.3	594.6	593.0
170°	602.9	602.8	602.4	600.7	599.1
172.5°	603.2	603.2	603.1	602.8	602.4
175°	605.6	606.8	606.8	606.8	606.8
177.5°	605.8	606.8	606.8	606.8	606.8
180°	606.8	606.8	606.8	606.8	606.8



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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	13.40	14.34	14.29	15.24	16.40	16.24	17.17	17.12	18.08	19.23
	3H	13.88	14.72	14.78	15.64	16.82	17.59	18.43	18.49	19.35	20.53
	4H	14.08	14.87	14.99	15.79	16.98	18.04	18.84	18.95	19.76	20.94
	6H	14.20	14.93	15.13	15.86	17.06	18.33	19.06	19.26	19.99	21.19
	8H	14.20	14.90	15.14	15.85	17.05	18.41	19.11	19.34	20.05	21.25
	12H	14.18	14.84	15.12	15.78	17.01	18.45	19.12	19.39	20.05	21.28
4H	2H	14.44	15.24	15.36	16.16	17.35	16.66	17.45	17.57	18.37	19.56
	3H	15.48	16.14	16.41	17.09	18.30	18.17	18.83	19.10	19.79	20.99
	4H	15.76	16.36	16.70	17.31	18.54	18.70	19.31	19.64	20.25	21.48
	6H	15.89	16.41	16.84	17.38	18.61	19.08	19.60	20.03	20.57	21.80
	8H	15.89	16.38	16.85	17.35	18.59	19.19	19.67	20.14	20.64	21.88
	12H	15.87	16.30	16.84	17.29	18.53	19.25	19.69	20.22	20.67	21.91
8H	4H	16.22	16.70	17.17	17.67	18.91	18.83	19.32	19.79	20.29	21.53
	6H	16.48	16.89	17.46	17.89	19.13	19.28	19.68	20.26	20.68	21.93
	8H	16.53	16.88	17.52	17.88	19.14	19.43	19.79	20.42	20.78	22.04
	12H	16.51	16.83	17.51	17.82	19.12	19.53	19.85	20.53	20.83	22.14
12H	4H	16.23	16.67	17.20	17.65	18.90	18.80	19.24	19.78	20.22	21.47
	6H	16.54	16.90	17.54	17.90	19.15	19.27	19.63	20.26	20.62	21.88
	8H	16.62	16.93	17.61	17.92	19.22	19.44	19.75	20.43	20.74	22.05