

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: P934523

Luminaire Tested: SQ4-FA-050U-125D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

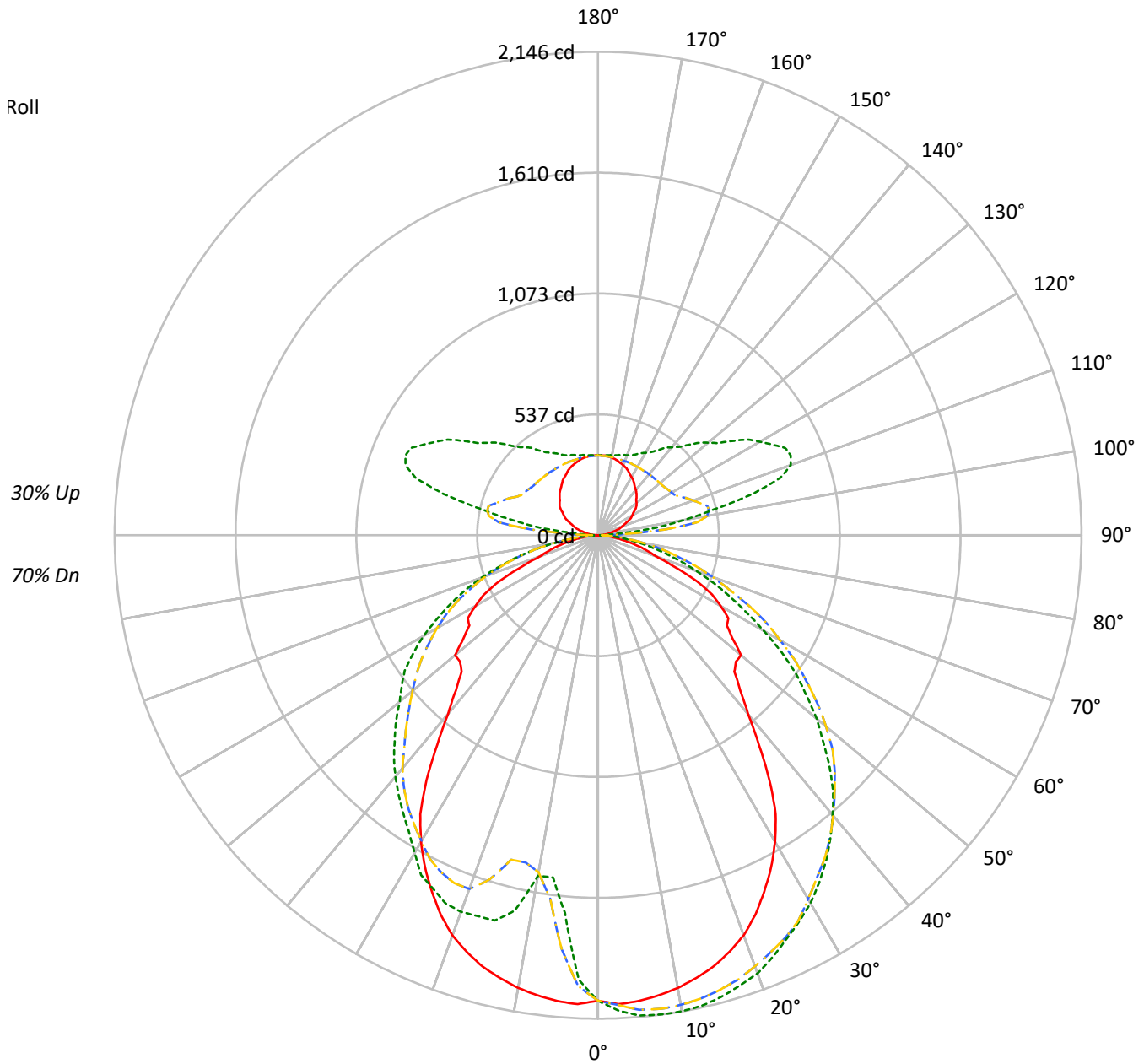
Test Method: LM-79-2019  
Report Number: P934523  
REPORT IS A COMBINATION OF REPORTS P933703 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-125D-927-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7656.9 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 84  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	29	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

**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	2.4
10°-20°	529.4	6.9
20°-30°	818.4	10.7
30°-40°	977.0	12.8
40°-50°	982.7	12.8
50°-60°	855.1	11.2
60°-70°	606.3	7.9
70°-80°	320.8	4.2
80°-90°	81.2	1.1
90°-100°	172.9	2.3
100°-110°	454.6	5.9
110°-120°	471.3	6.2
120°-130°	378.1	4.9
130°-140°	296.6	3.9
140°-150°	227.7	3.0
150°-160°	164.0	2.1
160°-170°	100.3	1.3
170°-180°	33.9	0.4
0°-30°	1534.3	20.0
0°-40°	2511.3	32.8
0°-60°	4349.2	56.8
0°-90°	5357.5	70.0
90°-120°	1098.8	14.4
90°-150°	2001.2	26.1
90°-180°	2299.0	30.0
0°-180°	7656.9	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°	2	9	2	9	2	3
95°	23	104	23	104	23	25
105°	82	712	82	712	82	87
115°	146	916	146	916	146	144
125°	202	730	202	730	202	180
135°	241	566	241	566	241	187
145°	280	460	280	460	280	175
155°	316	396	316	396	316	145
165°	341	368	341	368	341	96
175°	355	357	355	357	355	34
180°	355	355	355	355	355	



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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°	2.4	4.3	6.2	6.7	10.5	15.6	18.1	16.1	12.0	9.0	9.0
92.5°	9.5	25.7	41.9	46.0	64.6	89.5	101.9	89.2	64.1	45.2	43.4
95°	22.9	52.4	82.1	89.5	158.9	251.6	297.8	265.8	201.7	153.5	148.1
97.5°	39.5	65.7	91.8	98.3	214.1	368.5	445.7	425.4	384.8	354.4	344.0
100°	52.4	76.1	99.8	105.7	234.2	405.5	491.1	492.6	495.6	497.8	485.5
102.5°	63.3	85.5	107.6	113.1	243.4	417.1	504.0	529.8	581.4	620.2	609.6
105°	81.9	100.6	119.4	124.0	250.2	418.4	502.5	560.4	676.1	763.0	757.3
107.5°	100.9	118.4	135.8	140.2	251.5	399.8	473.9	554.6	716.1	837.2	838.6
110°	113.8	129.5	145.3	149.2	249.6	383.3	450.1	540.4	721.0	856.3	862.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	126.4	141.4	156.5	160.2	249.6	368.9	428.5	520.9	705.6	844.2	853.2
115°	145.5	159.3	173.2	176.6	251.9	352.4	402.6	491.6	669.5	803.0	815.6
117.5°	164.2	176.9	189.4	192.6	256.6	342.0	384.7	465.0	625.6	746.1	760.1
120°	175.2	187.0	198.9	201.9	260.4	338.5	377.5	450.9	597.7	707.7	721.3
122.5°	186.0	197.9	209.8	212.8	265.9	336.6	372.1	438.1	570.3	669.4	682.8
125°	202.4	213.2	224.1	226.8	273.3	335.2	366.1	422.3	534.5	618.7	631.0
127.5°	215.7	226.7	237.7	240.5	280.7	334.3	361.1	409.3	505.7	578.0	588.4
130°	222.8	234.7	246.6	249.5	286.1	334.8	359.2	402.1	487.9	552.3	561.9
132.5°	230.2	242.1	253.9	256.9	290.4	335.2	357.6	396.0	472.8	530.4	539.0
135°	241.2	251.9	262.7	265.4	295.2	334.9	354.7	386.9	451.2	499.4	506.9
137.5°	252.3	263.0	273.7	276.4	302.3	336.9	354.2	381.4	435.7	476.6	482.6
140°	261.6	271.5	281.3	283.7	306.7	337.3	352.6	376.1	423.0	458.2	463.9
142.5°	268.7	277.8	286.9	289.2	310.3	338.5	352.6	373.2	414.4	445.4	450.3
145°	279.7	287.7	295.6	297.6	315.2	338.5	350.2	367.1	400.8	426.1	429.8
147.5°	290.7	298.4	306.2	308.1	322.1	340.8	350.2	363.4	390.0	409.9	413.0
150°	297.8	304.8	311.8	313.5	325.8	342.0	350.2	361.4	383.8	400.6	403.1
152.5°	305.2	310.5	315.8	317.1	328.1	342.8	350.2	359.7	378.9	393.2	395.1
155°	316.2	320.1	323.9	324.9	333.3	344.6	350.2	357.8	373.1	384.5	385.7
157.5°	324.2	328.0	331.9	332.8	338.6	346.3	350.2	356.1	368.0	376.8	377.7
160°	329.7	332.6	335.6	336.3	341.0	347.1	350.2	355.3	365.4	373.1	373.5
162.5°	335.2	337.4	339.6	340.2	343.5	348.0	350.2	354.5	363.1	369.4	369.9
165°	341.1	343.1	345.1	345.7	347.2	349.2	350.2	353.3	359.4	364.0	364.5
167.5°	346.6	347.5	348.5	348.7	350.0	351.7	352.6	354.6	358.6	361.6	361.8
170°	350.2	351.1	352.1	352.4	352.4	352.5	352.6	354.6	358.6	361.6	361.6
172.5°	352.1	352.4	352.5	352.6	352.6	352.6	352.6	354.1	357.3	359.7	359.5
175°	354.7	354.7	354.7	354.7	354.0	353.0	352.6	353.6	355.6	357.0	357.0
177.5°	354.7	354.7	354.7	354.7	354.2	353.4	353.0	353.8	355.4	356.6	356.4
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



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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°	9.0	9.0	9.0	9.0	9.0	12.0	16.1	18.1	15.6	10.5	6.7
92.5°	36.2	29.0	36.2	43.4	45.2	64.1	89.2	101.9	89.5	64.6	46.0
95°	126.3	104.5	126.3	148.1	153.5	201.7	265.8	297.8	251.6	158.9	89.5
97.5°	302.6	261.2	302.6	344.0	354.4	384.8	425.4	445.7	368.5	214.1	98.3
100°	436.1	386.6	436.1	485.5	497.8	495.6	492.6	491.1	405.5	234.2	105.7
102.5°	567.3	524.9	567.3	609.6	620.2	581.4	529.8	504.0	417.1	243.4	113.1
105°	734.6	711.8	734.6	757.3	763.0	676.1	560.4	502.5	418.4	250.2	124.0
107.5°	844.1	849.6	844.1	838.6	837.2	716.1	554.6	473.9	399.8	251.5	140.2
110°	885.9	909.6	885.9	862.2	856.3	721.0	540.4	450.1	383.3	249.6	149.2





TEST NUMBER: P934523

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	889.7	926.0	889.7	853.2	844.2	705.6	520.9	428.5	368.9	249.6	160.2
115°	866.0	916.5	866.0	815.6	803.0	669.5	491.6	402.6	352.4	251.9	176.6
117.5°	816.0	872.0	816.0	760.1	746.1	625.6	465.0	384.7	342.0	256.6	192.6
120°	775.7	830.1	775.7	721.3	707.7	597.7	450.9	377.5	338.5	260.4	201.9
122.5°	736.5	790.1	736.5	682.8	669.4	570.3	438.1	372.1	336.6	265.9	212.8
125°	680.4	729.9	680.4	631.0	618.7	534.5	422.3	366.1	335.2	273.3	226.8
127.5°	630.1	671.8	630.1	588.4	578.0	505.7	409.3	361.1	334.3	280.7	240.5
130°	600.4	638.9	600.4	561.9	552.3	487.9	402.1	359.2	334.8	286.1	249.5
132.5°	573.5	608.0	573.5	539.0	530.4	472.8	396.0	357.6	335.2	290.4	256.9
135°	536.6	566.3	536.6	506.9	499.4	451.2	386.9	354.7	334.9	295.2	265.4
137.5°	507.0	531.4	507.0	482.6	476.6	435.7	381.4	354.2	336.9	302.3	276.4
140°	486.6	509.4	486.6	463.9	458.2	423.0	376.1	352.6	337.3	306.7	283.7
142.5°	469.9	489.4	469.9	450.3	445.4	414.4	373.2	352.6	338.5	310.3	289.2
145°	444.7	459.5	444.7	429.8	426.1	400.8	367.1	350.2	338.5	315.2	297.6
147.5°	425.3	437.5	425.3	413.0	409.9	390.0	363.4	350.2	340.8	322.1	308.1
150°	413.1	423.0	413.1	403.1	400.6	383.8	361.4	350.2	342.0	325.8	313.5
152.5°	402.6	410.2	402.6	395.1	393.2	378.9	359.7	350.2	342.8	328.1	317.1
155°	390.7	395.6	390.7	385.7	384.5	373.1	357.8	350.2	344.6	333.3	324.9
157.5°	381.2	384.7	381.2	377.7	376.8	368.0	356.1	350.2	346.3	338.6	332.8
160°	375.5	377.5	375.5	373.5	373.1	365.4	355.3	350.2	347.1	341.0	336.3
162.5°	371.8	373.8	371.8	369.9	369.4	363.1	354.5	350.2	348.0	343.5	340.2
165°	366.5	368.5	366.5	364.5	364.0	359.4	353.3	350.2	349.2	347.2	345.7
167.5°	362.7	363.5	362.7	361.8	361.6	358.6	354.6	352.6	351.7	350.0	348.7
170°	361.6	361.6	361.6	361.6	361.6	358.6	354.6	352.6	352.5	352.4	352.4
172.5°	358.7	358.0	358.7	359.5	359.7	357.3	354.1	352.6	352.6	352.6	352.6
175°	357.0	357.0	357.0	357.0	357.0	355.6	353.6	352.6	353.0	354.0	354.7
177.5°	355.6	354.7	355.6	356.4	356.6	355.4	353.8	353.0	353.4	354.2	354.7
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



TEST NUMBER: P934523

CATALOG NUMBER: SQ4-FA-050U-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°	6.2	4.3	2.4	4.3	6.2	6.7	10.5	15.6	18.1	16.1	12.0
92.5°	41.9	25.7	9.5	25.7	41.9	46.0	64.6	89.5	101.9	89.2	64.1
95°	82.1	52.4	22.9	52.4	82.1	89.5	158.9	251.6	297.8	265.8	201.7
97.5°	91.8	65.7	39.5	65.7	91.8	98.3	214.1	368.5	445.7	425.4	384.8
100°	99.8	76.1	52.4	76.1	99.8	105.7	234.2	405.5	491.1	492.6	495.6
102.5°	107.6	85.5	63.3	85.5	107.6	113.1	243.4	417.1	504.0	529.8	581.4
105°	119.4	100.6	81.9	100.6	119.4	124.0	250.2	418.4	502.5	560.4	676.1
107.5°	135.8	118.4	100.9	118.4	135.8	140.2	251.5	399.8	473.9	554.6	716.1
110°	145.3	129.5	113.8	129.5	145.3	149.2	249.6	383.3	450.1	540.4	721.0



TEST NUMBER: P934523

CATALOG NUMBER: SQ4-FA-050U-125D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	156.5	141.4	126.4	141.4	156.5	160.2	249.6	368.9	428.5	520.9	705.6
115°	173.2	159.3	145.5	159.3	173.2	176.6	251.9	352.4	402.6	491.6	669.5
117.5°	189.4	176.9	164.2	176.9	189.4	192.6	256.6	342.0	384.7	465.0	625.6
120°	198.9	187.0	175.2	187.0	198.9	201.9	260.4	338.5	377.5	450.9	597.7
122.5°	209.8	197.9	186.0	197.9	209.8	212.8	265.9	336.6	372.1	438.1	570.3
125°	224.1	213.2	202.4	213.2	224.1	226.8	273.3	335.2	366.1	422.3	534.5
127.5°	237.7	226.7	215.7	226.7	237.7	240.5	280.7	334.3	361.1	409.3	505.7
130°	246.6	234.7	222.8	234.7	246.6	249.5	286.1	334.8	359.2	402.1	487.9
132.5°	253.9	242.1	230.2	242.1	253.9	256.9	290.4	335.2	357.6	396.0	472.8
135°	262.7	251.9	241.2	251.9	262.7	265.4	295.2	334.9	354.7	386.9	451.2
137.5°	273.7	263.0	252.3	263.0	273.7	276.4	302.3	336.9	354.2	381.4	435.7
140°	281.3	271.5	261.6	271.5	281.3	283.7	306.7	337.3	352.6	376.1	423.0
142.5°	286.9	277.8	268.7	277.8	286.9	289.2	310.3	338.5	352.6	373.2	414.4
145°	295.6	287.7	279.7	287.7	295.6	297.6	315.2	338.5	350.2	367.1	400.8
147.5°	306.2	298.4	290.7	298.4	306.2	308.1	322.1	340.8	350.2	363.4	390.0
150°	311.8	304.8	297.8	304.8	311.8	313.5	325.8	342.0	350.2	361.4	383.8
152.5°	315.8	310.5	305.2	310.5	315.8	317.1	328.1	342.8	350.2	359.7	378.9
155°	323.9	320.1	316.2	320.1	323.9	324.9	333.3	344.6	350.2	357.8	373.1
157.5°	331.9	328.0	324.2	328.0	331.9	332.8	338.6	346.3	350.2	356.1	368.0
160°	335.6	332.6	329.7	332.6	335.6	336.3	341.0	347.1	350.2	355.3	365.4
162.5°	339.6	337.4	335.2	337.4	339.6	340.2	343.5	348.0	350.2	354.5	363.1
165°	345.1	343.1	341.1	343.1	345.1	345.7	347.2	349.2	350.2	353.3	359.4
167.5°	348.5	347.5	346.6	347.5	348.5	348.7	350.0	351.7	352.6	354.6	358.6
170°	352.1	351.1	350.2	351.1	352.1	352.4	352.4	352.5	352.6	354.6	358.6
172.5°	352.5	352.4	352.1	352.4	352.5	352.6	352.6	352.6	352.6	354.1	357.3
175°	354.7	354.7	354.7	354.7	354.7	354.7	354.0	353.0	352.6	353.6	355.6
177.5°	354.7	354.7	354.7	354.7	354.7	354.7	354.2	353.4	353.0	353.8	355.4
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



TEST NUMBER: P934523  
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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°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	16.1	18.1	15.6
92.5°	45.2	43.4	36.2	29.0	36.2	43.4	45.2	64.1	89.2	101.9	89.5
95°	153.5	148.1	126.3	104.5	126.3	148.1	153.5	201.7	265.8	297.8	251.6
97.5°	354.4	344.0	302.6	261.2	302.6	344.0	354.4	384.8	425.4	445.7	368.5
100°	497.8	485.5	436.1	386.6	436.1	485.5	497.8	495.6	492.6	491.1	405.5
102.5°	620.2	609.6	567.3	524.9	567.3	609.6	620.2	581.4	529.8	504.0	417.1
105°	763.0	757.3	734.6	711.8	734.6	757.3	763.0	676.1	560.4	502.5	418.4
107.5°	837.2	838.6	844.1	849.6	844.1	838.6	837.2	716.1	554.6	473.9	399.8
110°	856.3	862.2	885.9	909.6	885.9	862.2	856.3	721.0	540.4	450.1	383.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	844.2	853.2	889.7	926.0	889.7	853.2	844.2	705.6	520.9	428.5	368.9
115°	803.0	815.6	866.0	916.5	866.0	815.6	803.0	669.5	491.6	402.6	352.4
117.5°	746.1	760.1	816.0	872.0	816.0	760.1	746.1	625.6	465.0	384.7	342.0
120°	707.7	721.3	775.7	830.1	775.7	721.3	707.7	597.7	450.9	377.5	338.5
122.5°	669.4	682.8	736.5	790.1	736.5	682.8	669.4	570.3	438.1	372.1	336.6
125°	618.7	631.0	680.4	729.9	680.4	631.0	618.7	534.5	422.3	366.1	335.2
127.5°	578.0	588.4	630.1	671.8	630.1	588.4	578.0	505.7	409.3	361.1	334.3
130°	552.3	561.9	600.4	638.9	600.4	561.9	552.3	487.9	402.1	359.2	334.8
132.5°	530.4	539.0	573.5	608.0	573.5	539.0	530.4	472.8	396.0	357.6	335.2
135°	499.4	506.9	536.6	566.3	536.6	506.9	499.4	451.2	386.9	354.7	334.9
137.5°	476.6	482.6	507.0	531.4	507.0	482.6	476.6	435.7	381.4	354.2	336.9
140°	458.2	463.9	486.6	509.4	486.6	463.9	458.2	423.0	376.1	352.6	337.3
142.5°	445.4	450.3	469.9	489.4	469.9	450.3	445.4	414.4	373.2	352.6	338.5
145°	426.1	429.8	444.7	459.5	444.7	429.8	426.1	400.8	367.1	350.2	338.5
147.5°	409.9	413.0	425.3	437.5	425.3	413.0	409.9	390.0	363.4	350.2	340.8
150°	400.6	403.1	413.1	423.0	413.1	403.1	400.6	383.8	361.4	350.2	342.0
152.5°	393.2	395.1	402.6	410.2	402.6	395.1	393.2	378.9	359.7	350.2	342.8
155°	384.5	385.7	390.7	395.6	390.7	385.7	384.5	373.1	357.8	350.2	344.6
157.5°	376.8	377.7	381.2	384.7	381.2	377.7	376.8	368.0	356.1	350.2	346.3
160°	373.1	373.5	375.5	377.5	375.5	373.5	373.1	365.4	355.3	350.2	347.1
162.5°	369.4	369.9	371.8	373.8	371.8	369.9	369.4	363.1	354.5	350.2	348.0
165°	364.0	364.5	366.5	368.5	366.5	364.5	364.0	359.4	353.3	350.2	349.2
167.5°	361.6	361.8	362.7	363.5	362.7	361.8	361.6	358.6	354.6	352.6	351.7
170°	361.6	361.6	361.6	361.6	361.6	361.6	361.6	358.6	354.6	352.6	352.5
172.5°	359.7	359.5	358.7	358.0	358.7	359.5	359.7	357.3	354.1	352.6	352.6
175°	357.0	357.0	357.0	357.0	357.0	357.0	357.0	355.6	353.6	352.6	353.0
177.5°	356.6	356.4	355.6	354.7	355.6	356.4	356.6	355.4	353.8	353.0	353.4
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



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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°	10.5	6.7	6.2	4.3	2.4
92.5°	64.6	46.0	41.9	25.7	9.5
95°	158.9	89.5	82.1	52.4	22.9
97.5°	214.1	98.3	91.8	65.7	39.5
100°	234.2	105.7	99.8	76.1	52.4
102.5°	243.4	113.1	107.6	85.5	63.3
105°	250.2	124.0	119.4	100.6	81.9
107.5°	251.5	140.2	135.8	118.4	100.9
110°	249.6	149.2	145.3	129.5	113.8



TEST NUMBER: P934523

CATALOG NUMBER: SQ4-FA-050U-125D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	249.6	160.2	156.5	141.4	126.4
115°	251.9	176.6	173.2	159.3	145.5
117.5°	256.6	192.6	189.4	176.9	164.2
120°	260.4	201.9	198.9	187.0	175.2
122.5°	265.9	212.8	209.8	197.9	186.0
125°	273.3	226.8	224.1	213.2	202.4
127.5°	280.7	240.5	237.7	226.7	215.7
130°	286.1	249.5	246.6	234.7	222.8
132.5°	290.4	256.9	253.9	242.1	230.2
135°	295.2	265.4	262.7	251.9	241.2
137.5°	302.3	276.4	273.7	263.0	252.3
140°	306.7	283.7	281.3	271.5	261.6
142.5°	310.3	289.2	286.9	277.8	268.7
145°	315.2	297.6	295.6	287.7	279.7
147.5°	322.1	308.1	306.2	298.4	290.7
150°	325.8	313.5	311.8	304.8	297.8
152.5°	328.1	317.1	315.8	310.5	305.2
155°	333.3	324.9	323.9	320.1	316.2
157.5°	338.6	332.8	331.9	328.0	324.2
160°	341.0	336.3	335.6	332.6	329.7
162.5°	343.5	340.2	339.6	337.4	335.2
165°	347.2	345.7	345.1	343.1	341.1
167.5°	350.0	348.7	348.5	347.5	346.6
170°	352.4	352.4	352.1	351.1	350.2
172.5°	352.6	352.6	352.5	352.4	352.1
175°	354.0	354.7	354.7	354.7	354.7
177.5°	354.2	354.7	354.7	354.7	354.7
180°	354.7	354.7	354.7	354.7	354.7



TEST NUMBER: P934523  
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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	15.32	16.40	16.09	17.18	18.14	18.15	19.22	18.91	20.01	20.96
	3H	15.81	16.78	16.59	17.58	18.56	19.51	20.47	20.28	21.27	22.25
	4H	16.02	16.93	16.81	17.73	18.73	19.96	20.87	20.75	21.67	22.67
	6H	16.15	16.99	16.95	17.80	18.81	20.25	21.09	21.06	21.91	22.92
	8H	16.15	16.95	16.97	17.79	18.80	20.33	21.13	21.15	21.97	22.98
	12H	16.13	16.89	16.96	17.72	18.76	20.38	21.14	21.20	21.97	23.00
4H	2H	16.38	17.29	17.18	18.09	19.09	18.58	19.49	19.38	20.30	21.29
	3H	17.43	18.18	18.24	19.02	20.04	20.10	20.86	20.92	21.70	22.72
	4H	17.71	18.40	18.54	19.24	20.28	20.64	21.33	21.47	22.17	23.21
	6H	17.85	18.44	18.69	19.31	20.35	21.02	21.61	21.86	22.48	23.52
	8H	17.86	18.42	18.70	19.27	20.33	21.13	21.68	21.97	22.54	23.60
	12H	17.84	18.34	18.70	19.22	20.28	21.19	21.70	22.06	22.57	23.64
8H	4H	18.18	18.74	19.03	19.60	20.65	20.78	21.34	21.63	22.20	23.26
	6H	18.45	18.91	19.32	19.81	20.87	21.23	21.69	22.10	22.59	23.65
	8H	18.50	18.90	19.38	19.80	20.87	21.38	21.79	22.26	22.68	23.76
	12H	18.49	18.85	19.38	19.74	20.86	21.49	21.85	22.37	22.73	23.86
12H	4H	18.20	18.70	19.06	19.58	20.64	20.76	21.26	21.62	22.14	23.20
	6H	18.51	18.92	19.40	19.82	20.89	21.23	21.64	22.11	22.53	23.60
	8H	18.59	18.95	19.48	19.84	20.96	21.40	21.76	22.28	22.64	23.77