

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: P936020

Luminaire Tested: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

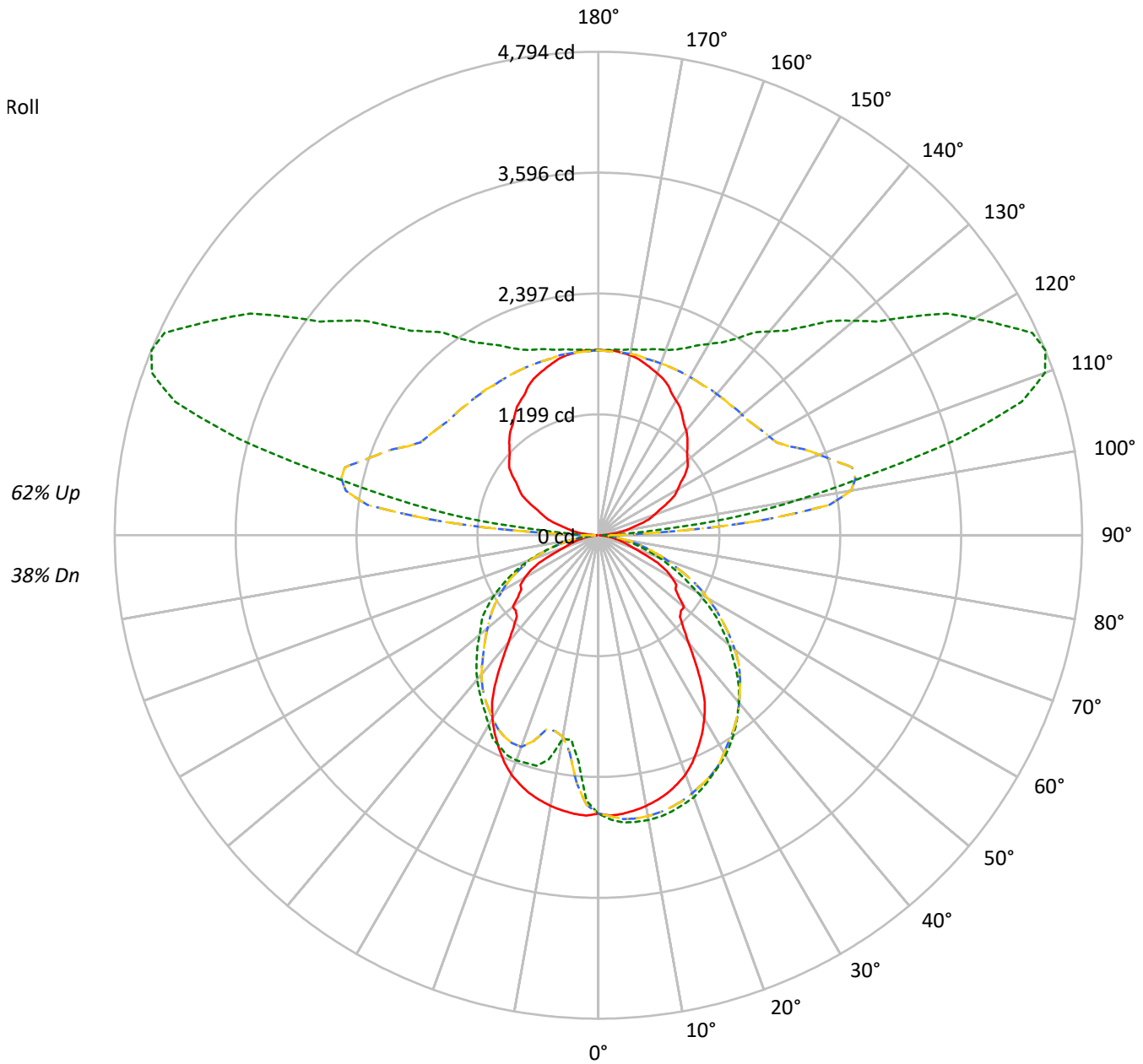
Test Method: LM-79-2019  
Report Number: P936020  
REPORT IS A COMBINATION OF REPORTS P933780 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19066.4 lumens  
Efficiency: N/A  
Efficacy: 131.7 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: Semi-Indirect  
  
Input Watts (W): 144.8  
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

TEST NUMBER: P936020  
CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot



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



TEST NUMBER: P936020

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38			38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32			32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27			27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23			23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19			19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17			17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15			15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13			13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12			12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10			10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9			9

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

	0°	90°	180°	270°
0°	12803	12803	12803	12803
5°	12899	12924	12899	10163
10°	12813	12731	12813	9102
15°	12673	12455	12673	10401
20°	12408	12129	12408	10422
25°	11866	11652	11866	10201
30°	11165	11256	11165	9717
35°	9953	10756	9953	9184
40°	8294	10167	8294	8781
45°	7410	9477	7410	8318
50°	7873	8655	7873	7854
55°	7407	7768	7407	7585
60°	7636	6598	7636	6947
65°	6922	5454	6922	6097
70°	4794	4347	4794	5110
75°	4203	3213	4203	3847
80°	3388	2123	3388	2313
85°	1947	1125	1947	956

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11357 cd/sqm



TEST NUMBER: P936020

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.1	1.3
10°-20°	707.3	3.7
20°-30°	1093.3	5.7
30°-40°	1305.2	6.8
40°-50°	1312.8	6.9
50°-60°	1142.3	6.0
60°-70°	809.9	4.2
70°-80°	428.5	2.2
80°-90°	113.7	0.6
90°-100°	895.1	4.7
100°-110°	2353.4	12.3
110°-120°	2440.2	12.8
120°-130°	1957.3	10.3
130°-140°	1535.8	8.1
140°-150°	1178.8	6.2
150°-160°	848.9	4.5
160°-170°	519.4	2.7
170°-180°	175.5	0.9
0°-30°	2049.7	10.8
0°-40°	3354.8	17.6
0°-60°	5810.0	30.5
0°-90°	7162.1	37.6
90°-120°	5688.7	29.8
90°-150°	10360.5	54.3
90°-180°	11904.0	62.4
0°-180°	19066.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2760	2760	2760	2760	2760	
5°	2773	2859	2773	2248	2773	263
15°	2647	2833	2647	2365	2647	745
25°	2331	2642	2331	2313	2331	1070
35°	1773	2358	1773	2013	1773	1097
45°	1144	1942	1144	1705	1144	916
55°	932	1433	932	1399	932	856
65°	647	864	647	966	647	619
75°	245	410	245	491	245	258
85°	42	104	42	89	42	56
90°	12	47	12	47	12	12
95°	118	541	118	541	118	131
105°	424	3685	424	3685	424	449
115°	753	4745	753	4745	753	744
125°	1048	3779	1048	3779	1048	930
135°	1248	2932	1248	2932	1248	966
145°	1448	2379	1448	2379	1448	907
155°	1637	2048	1637	2048	1637	752
165°	1766	1908	1766	1908	1766	498
175°	1836	1849	1836	1849	1836	174
180°	1836	1836	1836	1836	1836	



TEST NUMBER: P936020

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6
2.5°	2783.1	2783.1	2798.7	2803.9	2803.9	2796.1	2788.3	2796.1	2819.7	2827.5	2824.9
5°	2772.6	2793.5	2822.2	2827.5	2832.7	2830.0	2824.9	2830.0	2856.2	2861.4	2864.0
7.5°	2751.8	2790.9	2827.5	2835.3	2843.2	2835.3	2832.7	2837.9	2864.0	2869.3	2869.3
10°	2725.6	2780.4	2822.2	2827.5	2835.3	2827.5	2827.5	2837.9	2864.0	2869.3	2871.8
12.5°	2689.0	2764.8	2803.9	2809.2	2819.7	2817.0	2814.4	2824.9	2851.0	2856.2	2856.2
15°	2647.3	2736.1	2772.6	2777.9	2796.1	2790.9	2790.9	2801.4	2830.0	2837.9	2835.3
17.5°	2589.8	2699.5	2741.3	2749.1	2762.2	2759.6	2762.2	2772.6	2798.7	2803.9	2806.6
20°	2524.6	2649.9	2699.5	2707.3	2720.5	2720.5	2720.5	2733.5	2759.6	2770.1	2770.1
22.5°	2435.8	2597.7	2649.9	2655.2	2670.8	2670.8	2676.0	2694.3	2717.8	2720.5	2720.5
25°	2331.4	2540.2	2584.6	2600.3	2616.0	2623.8	2631.6	2642.1	2649.9	2647.3	2649.9
27.5°	2221.7	2467.1	2524.6	2535.0	2556.0	2563.8	2574.2	2576.8	2579.5	2587.3	2582.0
30°	2099.0	2365.4	2451.5	2462.0	2495.9	2501.1	2490.6	2495.9	2508.9	2514.2	2519.4
32.5°	1960.7	2213.9	2375.8	2399.3	2430.6	2415.0	2412.3	2420.2	2441.1	2441.1	2446.3
35°	1772.7	2096.4	2305.3	2326.1	2349.7	2331.4	2341.9	2344.4	2357.6	2365.4	2362.7
37.5°	1566.5	1994.6	2232.2	2247.9	2266.2	2242.7	2258.3	2266.2	2276.5	2271.4	2271.4
40°	1383.7	1835.4	2146.0	2156.5	2172.1	2153.8	2169.5	2174.8	2180.0	2174.8	2172.1
42.5°	1247.9	1660.4	2054.6	2067.7	2057.3	2070.4	2075.6	2086.0	2078.2	2067.7	2067.7
45°	1143.5	1613.4	1955.4	1971.2	1955.4	1976.4	1984.2	1984.2	1960.7	1955.4	1952.9
47.5°	1109.6	1519.4	1856.3	1856.3	1848.4	1874.5	1887.6	1869.3	1845.8	1838.0	1838.0
50°	1107.0	1415.0	1720.5	1710.0	1746.6	1777.9	1764.9	1746.6	1728.3	1699.6	1699.6
52.5°	1005.2	1287.1	1545.5	1584.8	1642.2	1660.4	1639.6	1621.3	1590.0	1576.9	1566.5
55°	932.1	1154.0	1386.4	1464.6	1524.7	1548.2	1509.0	1490.8	1443.8	1436.0	1430.7
57.5°	916.4	960.7	1240.1	1339.3	1412.4	1409.8	1386.4	1352.4	1313.2	1305.3	1302.8
60°	840.7	694.5	1083.4	1200.9	1276.7	1268.8	1247.9	1216.6	1180.1	1174.8	1169.6
62.5°	762.3	503.9	905.9	1039.1	1146.1	1143.5	1125.2	1078.2	1052.1	1039.1	1028.6
65°	647.4	423.0	644.9	864.2	1018.2	1023.4	984.2	950.4	921.6	905.9	903.3
67.5°	493.4	344.6	436.0	720.5	895.5	890.3	840.7	825.0	788.4	780.6	764.9
70°	365.5	229.7	302.8	584.8	775.4	762.3	723.2	704.9	671.0	652.7	642.2
72.5°	302.8	185.3	221.9	454.3	652.7	637.1	603.1	582.2	553.5	537.8	527.4
75°	245.4	195.8	169.7	336.8	530.0	519.6	488.2	467.3	443.8	423.0	425.5
77.5°	180.1	182.8	135.8	248.0	420.3	404.7	386.4	360.3	349.9	329.0	329.0
80°	135.8	143.6	101.9	169.7	302.8	302.8	287.2	268.9	250.7	240.2	240.2
82.5°	91.4	91.4	75.7	107.0	206.3	198.4	188.0	182.8	172.3	167.1	167.1
85°	41.8	52.2	47.0	65.3	112.2	117.5	117.5	112.2	109.7	104.4	107.0
87.5°	13.0	23.5	28.8	36.6	57.4	60.1	62.6	62.6	62.6	65.3	65.3
90°	12.4	22.2	32.0	34.5	54.2	80.5	93.7	83.3	62.4	46.8	46.8
92.5°	49.3	133.1	217.0	237.9	334.4	463.2	527.5	462.3	332.0	234.2	224.9
95°	118.4	271.7	425.0	463.4	822.8	1302.1	1541.8	1375.8	1043.9	794.9	766.7
97.5°	204.6	339.9	475.2	509.0	1108.4	1907.6	2307.2	2202.3	1992.5	1835.1	1781.5
100°	271.1	393.8	516.5	547.3	1212.4	2099.1	2542.5	2550.2	2565.5	2577.0	2513.1
102.5°	327.8	442.3	556.7	585.4	1260.0	2159.4	2609.1	2742.8	3010.0	3210.5	3155.8
105°	424.0	520.9	617.9	642.1	1295.3	2166.2	2601.7	2901.4	3500.6	3950.0	3920.6
107.5°	522.6	613.0	703.3	725.9	1301.9	2069.9	2453.8	2871.7	3707.7	4334.6	4341.7
110°	589.1	670.8	752.4	772.7	1292.0	1984.4	2330.6	2797.8	3732.3	4433.2	4463.8



TEST NUMBER: P936020

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	654.5	732.2	810.0	829.4	1292.4	1909.7	2218.4	2696.5	3652.9	4370.2	4417.3
115°	753.1	824.8	896.5	914.5	1304.4	1824.1	2084.1	2544.7	3466.0	4157.0	4222.3
117.5°	850.4	915.6	980.8	997.1	1328.6	1770.6	1991.6	2407.4	3238.9	3862.5	3934.9
120°	907.1	968.4	1029.8	1045.1	1348.3	1752.5	1954.7	2334.5	3094.3	3664.1	3734.4
122.5°	962.5	1024.5	1086.3	1101.8	1376.7	1743.1	1926.3	2268.3	2952.5	3465.6	3535.1
125°	1047.6	1104.0	1160.4	1174.5	1414.8	1735.2	1895.5	2186.0	2767.2	3203.1	3267.0
127.5°	1116.6	1173.5	1230.6	1244.8	1453.1	1730.8	1869.6	2119.1	2618.1	2992.4	3046.3
130°	1153.6	1214.9	1276.3	1291.6	1481.0	1733.4	1859.7	2081.8	2526.1	2859.3	2909.2
132.5°	1191.8	1253.2	1314.5	1329.8	1503.6	1735.3	1851.1	2049.9	2447.6	2745.8	2790.5
135°	1248.4	1304.4	1360.3	1374.2	1528.2	1733.6	1836.3	2002.9	2335.9	2585.7	2624.1
137.5°	1306.4	1361.8	1417.0	1430.8	1565.2	1744.3	1833.9	1974.7	2256.2	2467.3	2498.8
140°	1354.4	1405.4	1456.3	1469.1	1587.8	1746.1	1825.2	1946.9	2190.1	2372.5	2401.9
142.5°	1391.4	1438.5	1485.7	1497.4	1606.7	1752.4	1825.2	1932.0	2145.6	2305.9	2331.2
145°	1448.1	1489.2	1530.3	1540.6	1631.4	1752.4	1812.9	1900.2	2075.0	2206.1	2225.3
147.5°	1504.8	1544.8	1584.9	1594.8	1667.5	1764.5	1812.9	1881.6	2019.1	2122.2	2138.1
150°	1541.8	1577.9	1614.1	1623.1	1686.3	1770.7	1812.9	1871.0	1987.1	2074.2	2087.1
152.5°	1580.0	1607.4	1634.8	1641.7	1698.8	1774.8	1812.9	1862.5	1961.6	2036.0	2045.7
155°	1636.7	1657.0	1677.2	1682.3	1725.8	1783.8	1812.9	1852.3	1931.2	1990.4	1996.8
157.5°	1678.6	1698.4	1718.0	1723.0	1752.9	1792.9	1812.9	1843.6	1905.0	1951.0	1955.5
160°	1707.0	1722.3	1737.6	1741.4	1765.3	1797.0	1812.9	1839.2	1891.8	1931.2	1933.8
162.5°	1735.3	1746.8	1758.3	1761.2	1778.4	1801.4	1812.9	1835.1	1879.5	1912.8	1915.2
165°	1766.0	1776.4	1786.9	1789.5	1797.3	1807.6	1812.9	1828.8	1860.6	1884.4	1887.0
167.5°	1794.4	1799.3	1804.3	1805.6	1812.1	1820.9	1825.2	1835.6	1856.5	1872.1	1873.1
170°	1812.9	1817.8	1822.8	1824.0	1824.4	1824.9	1825.2	1835.6	1856.5	1872.1	1872.1
172.5°	1822.8	1823.8	1824.9	1825.2	1825.2	1825.2	1825.2	1833.4	1849.8	1862.2	1861.2
175°	1836.3	1836.3	1836.3	1836.3	1832.6	1827.7	1825.2	1830.5	1840.8	1848.6	1848.6
177.5°	1836.3	1836.3	1836.3	1836.3	1833.4	1829.6	1827.7	1831.9	1840.1	1846.2	1845.1
180°	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3



TEST NUMBER: P936020

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6
2.5°	2830.0	2822.2	2830.0	2824.9	2827.5	2819.7	2796.1	2788.3	2796.1	2803.9	2803.9
5°	2864.0	2858.8	2864.0	2864.0	2861.4	2856.2	2830.0	2824.9	2830.0	2832.7	2827.5
7.5°	2874.5	2866.6	2874.5	2869.3	2869.3	2864.0	2837.9	2832.7	2835.3	2843.2	2835.3
10°	2874.5	2866.6	2874.5	2871.8	2869.3	2864.0	2837.9	2827.5	2827.5	2835.3	2827.5
12.5°	2861.4	2856.2	2861.4	2856.2	2856.2	2851.0	2824.9	2814.4	2817.0	2819.7	2809.2
15°	2840.5	2832.7	2840.5	2835.3	2837.9	2830.0	2801.4	2790.9	2790.9	2796.1	2777.9
17.5°	2809.2	2798.7	2809.2	2806.6	2803.9	2798.7	2772.6	2762.2	2759.6	2762.2	2749.1
20°	2772.6	2764.8	2772.6	2770.1	2770.1	2759.6	2733.5	2720.5	2720.5	2720.5	2707.3
22.5°	2715.2	2707.3	2715.2	2720.5	2720.5	2717.8	2694.3	2676.0	2670.8	2670.8	2655.2
25°	2649.9	2642.1	2649.9	2649.9	2647.3	2649.9	2642.1	2631.6	2623.8	2616.0	2600.3
27.5°	2587.3	2582.0	2587.3	2582.0	2587.3	2579.5	2576.8	2574.2	2563.8	2556.0	2535.0
30°	2524.6	2519.4	2524.6	2519.4	2514.2	2508.9	2495.9	2490.6	2501.1	2495.9	2462.0
32.5°	2446.3	2441.1	2446.3	2446.3	2441.1	2441.1	2420.2	2412.3	2415.0	2430.6	2399.3
35°	2365.4	2357.6	2365.4	2362.7	2365.4	2357.6	2344.4	2341.9	2331.4	2349.7	2326.1
37.5°	2271.4	2263.5	2271.4	2271.4	2271.4	2276.5	2266.2	2258.3	2242.7	2266.2	2247.9
40°	2174.8	2164.3	2174.8	2172.1	2174.8	2180.0	2174.8	2169.5	2153.8	2172.1	2156.5
42.5°	2065.1	2062.5	2065.1	2067.7	2067.7	2078.2	2086.0	2075.6	2070.4	2057.3	2067.7
45°	1947.6	1942.4	1947.6	1952.9	1955.4	1960.7	1984.2	1984.2	1976.4	1955.4	1971.2
47.5°	1822.3	1809.2	1822.3	1838.0	1838.0	1845.8	1869.3	1887.6	1874.5	1848.4	1856.3
50°	1689.2	1691.8	1689.2	1699.6	1699.6	1728.3	1746.6	1764.9	1777.9	1746.6	1710.0
52.5°	1558.7	1556.0	1558.7	1566.5	1576.9	1590.0	1621.3	1639.6	1660.4	1642.2	1584.8
55°	1428.1	1433.3	1428.1	1430.7	1436.0	1443.8	1490.8	1509.0	1548.2	1524.7	1464.6
57.5°	1297.5	1289.7	1297.5	1302.8	1305.3	1313.2	1352.4	1386.4	1409.8	1412.4	1339.3
60°	1146.1	1135.7	1146.1	1169.6	1174.8	1180.1	1216.6	1247.9	1268.8	1276.7	1200.9
62.5°	1013.0	994.7	1013.0	1028.6	1039.1	1052.1	1078.2	1125.2	1143.5	1146.1	1039.1
65°	872.0	864.2	872.0	903.3	905.9	921.6	950.4	984.2	1023.4	1018.2	864.2
67.5°	744.1	744.1	744.1	764.9	780.6	788.4	825.0	840.7	890.3	895.5	720.5
70°	626.6	624.0	626.6	642.2	652.7	671.0	704.9	723.2	762.3	775.4	584.8
72.5°	514.4	511.7	514.4	527.4	537.8	553.5	582.2	603.1	637.1	652.7	454.3
75°	415.2	409.9	415.2	425.5	423.0	443.8	467.3	488.2	519.6	530.0	336.8
77.5°	318.5	318.5	318.5	329.0	329.0	349.9	360.3	386.4	404.7	420.3	248.0
80°	237.6	234.9	237.6	240.2	240.2	250.7	268.9	287.2	302.8	302.8	169.7
82.5°	167.1	161.8	167.1	167.1	167.1	172.3	182.8	188.0	198.4	206.3	107.0
85°	104.4	104.4	104.4	107.0	104.4	109.7	112.2	117.5	117.5	112.2	65.3
87.5°	67.9	65.3	67.9	65.3	65.3	62.6	62.6	62.6	60.1	57.4	36.6
90°	46.8	46.8	46.8	46.8	46.8	62.4	83.3	93.7	80.5	54.2	34.5
92.5°	187.6	150.4	187.6	224.9	234.2	332.0	462.3	527.5	463.2	334.4	237.9
95°	653.9	541.0	653.9	766.7	794.9	1043.9	1375.8	1541.8	1302.1	822.8	463.4
97.5°	1566.7	1352.0	1566.7	1781.5	1835.1	1992.5	2202.3	2307.2	1907.6	1108.4	509.0
100°	2257.3	2001.5	2257.3	2513.1	2577.0	2565.5	2550.2	2542.5	2099.1	1212.4	547.3
102.5°	2936.6	2717.6	2936.6	3155.8	3210.5	3010.0	2742.8	2609.1	2159.4	1260.0	585.4
105°	3802.8	3685.0	3802.8	3920.6	3950.0	3500.6	2901.4	2601.7	2166.2	1295.3	642.1
107.5°	4370.1	4398.6	4370.1	4341.7	4334.6	3707.7	2871.7	2453.8	2069.9	1301.9	725.9
110°	4586.5	4709.2	4586.5	4463.8	4433.2	3732.3	2797.8	2330.6	1984.4	1292.0	772.7





TEST NUMBER: P936020

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4605.8	4794.2	4605.8	4417.3	4370.2	3652.9	2696.5	2218.4	1909.7	1292.4	829.4
115°	4483.6	4744.9	4483.6	4222.3	4157.0	3466.0	2544.7	2084.1	1824.1	1304.4	914.5
117.5°	4224.7	4514.5	4224.7	3934.9	3862.5	3238.9	2407.4	1991.6	1770.6	1328.6	997.1
120°	4016.0	4297.5	4016.0	3734.4	3664.1	3094.3	2334.5	1954.7	1752.5	1348.3	1045.1
122.5°	3812.8	4090.5	3812.8	3535.1	3465.6	2952.5	2268.3	1926.3	1743.1	1376.7	1101.8
125°	3522.9	3778.7	3522.9	3267.0	3203.1	2767.2	2186.0	1895.5	1735.2	1414.8	1174.5
127.5°	3262.2	3478.0	3262.2	3046.3	2992.4	2618.1	2119.1	1869.6	1730.8	1453.1	1244.8
130°	3108.5	3307.9	3108.5	2909.2	2859.3	2526.1	2081.8	1859.7	1733.4	1481.0	1291.6
132.5°	2969.0	3147.7	2969.0	2790.5	2745.8	2447.6	2049.9	1851.1	1735.3	1503.6	1329.8
135°	2778.1	2932.0	2778.1	2624.1	2585.7	2335.9	2002.9	1836.3	1733.6	1528.2	1374.2
137.5°	2624.8	2750.8	2624.8	2498.8	2467.3	2256.2	1974.7	1833.9	1744.3	1565.2	1430.8
140°	2519.7	2637.5	2519.7	2401.9	2372.5	2190.1	1946.9	1825.2	1746.1	1587.8	1469.1
142.5°	2432.6	2533.9	2432.6	2331.2	2305.9	2145.6	1932.0	1825.2	1752.4	1606.7	1497.4
145°	2301.9	2378.6	2301.9	2225.3	2206.1	2075.0	1900.2	1812.9	1752.4	1631.4	1540.6
147.5°	2201.7	2265.2	2201.7	2138.1	2122.2	2019.1	1881.6	1812.9	1764.5	1667.5	1594.8
150°	2138.6	2190.1	2138.6	2087.1	2074.2	1987.1	1871.0	1812.9	1770.7	1686.3	1623.1
152.5°	2084.6	2123.5	2084.6	2045.7	2036.0	1961.6	1862.5	1812.9	1774.8	1698.8	1641.7
155°	2022.6	2048.3	2022.6	1996.8	1990.4	1931.2	1852.3	1812.9	1783.8	1725.8	1682.3
157.5°	1973.5	1991.6	1973.5	1955.5	1951.0	1905.0	1843.6	1812.9	1792.9	1752.9	1723.0
160°	1944.3	1954.7	1944.3	1933.8	1931.2	1891.8	1839.2	1812.9	1797.0	1765.3	1741.4
162.5°	1925.0	1934.9	1925.0	1915.2	1912.8	1879.5	1835.1	1812.9	1801.4	1778.4	1761.2
165°	1897.5	1907.8	1897.5	1887.0	1884.4	1860.6	1828.8	1812.9	1807.6	1797.3	1789.5
167.5°	1877.6	1881.9	1877.6	1873.1	1872.1	1856.5	1835.6	1825.2	1820.9	1812.1	1805.6
170°	1872.1	1872.1	1872.1	1872.1	1872.1	1856.5	1835.6	1825.2	1824.9	1824.4	1824.0
172.5°	1857.4	1853.6	1857.4	1861.2	1862.2	1849.8	1833.4	1825.2	1825.2	1825.2	1825.2
175°	1848.6	1848.6	1848.6	1848.6	1848.6	1840.8	1830.5	1825.2	1827.7	1832.6	1836.3
177.5°	1840.6	1836.3	1840.6	1845.1	1846.2	1840.1	1831.9	1827.7	1829.6	1833.4	1836.3
180°	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3



TEST NUMBER: P936020

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6
2.5°	2798.7	2783.1	2783.1	2757.0	2746.5	2738.7	2725.6	2686.5	2676.0	2665.6	2681.2
5°	2822.2	2793.5	2772.6	2725.6	2686.5	2670.8	2621.2	2527.2	2464.6	2417.5	2391.5
7.5°	2827.5	2790.9	2751.8	2678.7	2584.6	2542.9	2391.5	2219.1	2172.1	2130.4	2104.2
10°	2822.2	2780.4	2725.6	2616.0	2394.0	2321.0	2169.5	2057.3	2028.6	2020.8	2028.6
12.5°	2803.9	2764.8	2689.0	2506.4	2195.6	2146.0	2057.3	1992.0	1986.8	1999.8	2070.4
15°	2772.6	2736.1	2647.3	2360.1	2086.0	2049.4	1986.8	1963.3	1992.0	2083.4	2294.8
17.5°	2741.3	2699.5	2589.8	2216.6	2002.5	1976.4	1931.9	1979.0	2140.8	2263.5	2334.1
20°	2699.5	2649.9	2524.6	2112.1	1942.4	1918.9	1898.0	2109.5	2232.2	2276.5	2315.8
22.5°	2649.9	2597.7	2435.8	2039.0	1879.8	1861.5	1874.5	2182.6	2232.2	2263.5	2297.5
25°	2584.6	2540.2	2331.4	1981.5	1830.2	1809.2	1858.8	2174.8	2203.4	2211.3	2279.2
27.5°	2524.6	2467.1	2221.7	1929.4	1770.1	1762.3	1872.0	2140.8	2161.7	2169.5	2242.7
30°	2451.5	2365.4	2099.0	1874.5	1707.5	1704.8	1874.5	2099.0	2093.9	2114.7	2187.8
32.5°	2375.8	2213.9	1960.7	1806.7	1647.4	1644.8	1856.3	2036.4	2031.1	2059.9	2114.7
35°	2305.3	2096.4	1772.7	1728.3	1571.7	1574.3	1811.9	1963.3	1965.9	1992.0	2026.0
37.5°	2232.2	1994.6	1566.5	1642.2	1498.6	1498.6	1751.8	1895.4	1890.2	1898.0	1945.0
40°	2146.0	1835.4	1383.7	1529.9	1430.7	1422.8	1678.7	1822.3	1804.0	1801.4	1866.7
42.5°	2054.6	1660.4	1247.9	1381.1	1352.4	1341.9	1590.0	1733.5	1699.6	1707.5	1790.9
45°	1955.4	1613.4	1143.5	1167.0	1271.5	1263.7	1493.4	1631.7	1608.3	1629.1	1715.3
47.5°	1856.3	1519.4	1109.6	968.6	1185.3	1182.6	1386.4	1532.5	1519.4	1540.4	1631.7
50°	1720.5	1415.0	1107.0	830.2	1088.7	1099.2	1258.4	1436.0	1436.0	1454.2	1550.8
52.5°	1545.5	1287.1	1005.2	751.9	976.4	1007.8	1146.1	1352.4	1357.6	1375.9	1462.0
55°	1386.4	1154.0	932.1	691.9	843.3	911.1	1036.5	1266.2	1276.7	1295.0	1373.2
57.5°	1240.1	960.7	916.4	621.4	720.5	785.9	939.9	1182.6	1187.9	1203.6	1279.3
60°	1083.4	694.5	840.7	545.7	613.5	663.1	851.1	1083.4	1101.7	1112.2	1177.5
62.5°	905.9	503.9	762.3	493.4	561.3	571.8	778.0	989.5	1013.0	1020.8	1059.9
65°	644.9	423.0	647.4	449.0	506.4	509.1	699.7	892.9	913.8	926.8	955.5
67.5°	436.0	344.6	493.4	407.3	464.8	467.3	624.0	780.6	809.4	819.7	838.0
70°	302.8	229.7	365.5	362.9	417.7	423.0	543.0	678.8	704.9	712.7	723.2
72.5°	221.9	185.3	302.8	326.3	368.1	373.4	459.5	564.0	590.0	597.8	603.1
75°	169.7	195.8	245.4	284.5	313.3	315.9	375.9	459.5	477.8	483.0	485.6
77.5°	135.8	182.8	180.1	229.7	255.9	250.7	295.0	355.1	370.7	370.7	370.7
80°	101.9	143.6	135.8	164.5	188.0	182.8	211.4	253.2	258.5	263.7	261.0
82.5°	75.7	91.4	91.4	104.4	125.3	120.1	141.0	164.5	164.5	164.5	169.7
85°	47.0	52.2	41.8	54.8	70.4	67.9	78.3	88.7	91.4	91.4	86.2
87.5°	28.8	23.5	13.0	20.8	31.3	31.3	36.6	39.1	36.6	36.6	36.6
90°	32.0	22.2	12.4	22.2	32.0	34.5	54.2	80.5	93.7	83.3	62.4
92.5°	217.0	133.1	49.3	133.1	217.0	237.9	334.4	463.2	527.5	462.3	332.0
95°	425.0	271.7	118.4	271.7	425.0	463.4	822.8	1302.1	1541.8	1375.8	1043.9
97.5°	475.2	339.9	204.6	339.9	475.2	509.0	1108.4	1907.6	2307.2	2202.3	1992.5
100°	516.5	393.8	271.1	393.8	516.5	547.3	1212.4	2099.1	2542.5	2550.2	2565.5
102.5°	556.7	442.3	327.8	442.3	556.7	585.4	1260.0	2159.4	2609.1	2742.8	3010.0
105°	617.9	520.9	424.0	520.9	617.9	642.1	1295.3	2166.2	2601.7	2901.4	3500.6
107.5°	703.3	613.0	522.6	613.0	703.3	725.9	1301.9	2069.9	2453.8	2871.7	3707.7
110°	752.4	670.8	589.1	670.8	752.4	772.7	1292.0	1984.4	2330.6	2797.8	3732.3



TEST NUMBER: P936020

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	810.0	732.2	654.5	732.2	810.0	829.4	1292.4	1909.7	2218.4	2696.5	3652.9
115°	896.5	824.8	753.1	824.8	896.5	914.5	1304.4	1824.1	2084.1	2544.7	3466.0
117.5°	980.8	915.6	850.4	915.6	980.8	997.1	1328.6	1770.6	1991.6	2407.4	3238.9
120°	1029.8	968.4	907.1	968.4	1029.8	1045.1	1348.3	1752.5	1954.7	2334.5	3094.3
122.5°	1086.3	1024.5	962.5	1024.5	1086.3	1101.8	1376.7	1743.1	1926.3	2268.3	2952.5
125°	1160.4	1104.0	1047.6	1104.0	1160.4	1174.5	1414.8	1735.2	1895.5	2186.0	2767.2
127.5°	1230.6	1173.5	1116.6	1173.5	1230.6	1244.8	1453.1	1730.8	1869.6	2119.1	2618.1
130°	1276.3	1214.9	1153.6	1214.9	1276.3	1291.6	1481.0	1733.4	1859.7	2081.8	2526.1
132.5°	1314.5	1253.2	1191.8	1253.2	1314.5	1329.8	1503.6	1735.3	1851.1	2049.9	2447.6
135°	1360.3	1304.4	1248.4	1304.4	1360.3	1374.2	1528.2	1733.6	1836.3	2002.9	2335.9
137.5°	1417.0	1361.8	1306.4	1361.8	1417.0	1430.8	1565.2	1744.3	1833.9	1974.7	2256.2
140°	1456.3	1405.4	1354.4	1405.4	1456.3	1469.1	1587.8	1746.1	1825.2	1946.9	2190.1
142.5°	1485.7	1438.5	1391.4	1438.5	1485.7	1497.4	1606.7	1752.4	1825.2	1932.0	2145.6
145°	1530.3	1489.2	1448.1	1489.2	1530.3	1540.6	1631.4	1752.4	1812.9	1900.2	2075.0
147.5°	1584.9	1544.8	1504.8	1544.8	1584.9	1594.8	1667.5	1764.5	1812.9	1881.6	2019.1
150°	1614.1	1577.9	1541.8	1577.9	1614.1	1623.1	1686.3	1770.7	1812.9	1871.0	1987.1
152.5°	1634.8	1607.4	1580.0	1607.4	1634.8	1641.7	1698.8	1774.8	1812.9	1862.5	1961.6
155°	1677.2	1657.0	1636.7	1657.0	1677.2	1682.3	1725.8	1783.8	1812.9	1852.3	1931.2
157.5°	1718.0	1698.4	1678.6	1698.4	1718.0	1723.0	1752.9	1792.9	1812.9	1843.6	1905.0
160°	1737.6	1722.3	1707.0	1722.3	1737.6	1741.4	1765.3	1797.0	1812.9	1839.2	1891.8
162.5°	1758.3	1746.8	1735.3	1746.8	1758.3	1761.2	1778.4	1801.4	1812.9	1835.1	1879.5
165°	1786.9	1776.4	1766.0	1776.4	1786.9	1789.5	1797.3	1807.6	1812.9	1828.8	1860.6
167.5°	1804.3	1799.3	1794.4	1799.3	1804.3	1805.6	1812.1	1820.9	1825.2	1835.6	1856.5
170°	1822.8	1817.8	1812.9	1817.8	1822.8	1824.0	1824.4	1824.9	1825.2	1835.6	1856.5
172.5°	1824.9	1823.8	1822.8	1823.8	1824.9	1825.2	1825.2	1825.2	1825.2	1833.4	1849.8
175°	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1832.6	1827.7	1825.2	1830.5	1840.8
177.5°	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1833.4	1829.6	1827.7	1831.9	1840.1
180°	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3



TEST NUMBER: P936020  
 CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6	2759.6
2.5°	2663.0	2655.2	2665.6	2636.9	2665.6	2655.2	2663.0	2681.2	2665.6	2676.0	2686.5
5°	2336.6	2323.6	2281.8	2247.9	2281.8	2323.6	2336.6	2391.5	2417.5	2464.6	2527.2
7.5°	2088.6	2078.2	2067.7	2046.8	2067.7	2078.2	2088.6	2104.2	2130.4	2172.1	2219.1
10°	2033.8	2036.4	2052.1	2049.4	2052.1	2036.4	2033.8	2028.6	2020.8	2028.6	2057.3
12.5°	2174.8	2198.3	2284.5	2279.2	2284.5	2198.3	2174.8	2070.4	1999.8	1986.8	1992.0
15°	2336.6	2344.4	2362.7	2365.4	2362.7	2344.4	2336.6	2294.8	2083.4	1992.0	1963.3
17.5°	2352.3	2354.9	2367.9	2367.9	2367.9	2354.9	2352.3	2334.1	2263.5	2140.8	1979.0
20°	2339.3	2344.4	2370.6	2375.8	2370.6	2344.4	2339.3	2315.8	2276.5	2232.2	2109.5
22.5°	2334.1	2344.4	2365.4	2362.7	2365.4	2344.4	2334.1	2297.5	2263.5	2232.2	2182.6
25°	2307.9	2307.9	2310.5	2313.1	2310.5	2307.9	2307.9	2279.2	2211.3	2203.4	2174.8
27.5°	2253.1	2258.3	2274.0	2271.4	2274.0	2258.3	2253.1	2242.7	2169.5	2161.7	2140.8
30°	2203.4	2198.3	2185.2	2174.8	2185.2	2198.3	2203.4	2187.8	2114.7	2093.9	2099.0
32.5°	2120.0	2106.9	2093.9	2086.0	2093.9	2106.9	2120.0	2114.7	2059.9	2031.1	2036.4
35°	2020.8	2023.3	2020.8	2012.9	2020.8	2023.3	2020.8	2026.0	1992.0	1965.9	1963.3
37.5°	1950.2	1955.4	1952.9	1942.4	1952.9	1955.4	1950.2	1945.0	1898.0	1890.2	1895.4
40°	1877.1	1879.8	1877.1	1869.3	1877.1	1879.8	1877.1	1866.7	1801.4	1804.0	1822.3
42.5°	1806.7	1804.0	1796.2	1790.9	1796.2	1804.0	1806.7	1790.9	1707.5	1699.6	1733.5
45°	1725.7	1728.3	1712.7	1704.8	1712.7	1728.3	1725.7	1715.3	1629.1	1608.3	1631.7
47.5°	1644.8	1644.8	1631.7	1623.9	1631.7	1644.8	1644.8	1631.7	1540.4	1519.4	1532.5
50°	1558.7	1556.0	1537.7	1535.2	1537.7	1556.0	1558.7	1550.8	1454.2	1436.0	1436.0
52.5°	1459.4	1459.4	1462.0	1467.3	1462.0	1459.4	1459.4	1462.0	1375.9	1357.6	1352.4
55°	1373.2	1375.9	1394.2	1399.4	1394.2	1375.9	1373.2	1373.2	1295.0	1276.7	1266.2
57.5°	1284.5	1284.5	1297.5	1297.5	1297.5	1284.5	1284.5	1279.3	1203.6	1187.9	1182.6
60°	1182.6	1187.9	1198.3	1195.8	1198.3	1187.9	1182.6	1177.5	1112.2	1101.7	1083.4
62.5°	1075.6	1080.9	1083.4	1078.2	1083.4	1080.9	1075.6	1059.9	1020.8	1013.0	989.5
65°	963.4	968.6	971.2	966.0	971.2	968.6	963.4	955.5	926.8	913.8	892.9
67.5°	848.5	845.9	843.3	853.7	843.3	845.9	848.5	838.0	819.7	809.4	780.6
70°	731.0	731.0	728.4	733.6	728.4	731.0	731.0	723.2	712.7	704.9	678.8
72.5°	605.7	603.1	613.5	605.7	613.5	603.1	605.7	603.1	597.8	590.0	564.0
75°	483.0	488.2	483.0	490.8	483.0	488.2	483.0	485.6	483.0	477.8	459.5
77.5°	368.1	373.4	368.1	368.1	368.1	373.4	368.1	370.7	370.7	370.7	355.1
80°	261.0	258.5	258.5	255.9	258.5	258.5	261.0	261.0	263.7	258.5	253.2
82.5°	167.1	164.5	164.5	169.7	164.5	164.5	167.1	169.7	164.5	164.5	164.5
85°	91.4	94.0	88.7	88.7	88.7	94.0	91.4	86.2	91.4	91.4	88.7
87.5°	34.0	31.3	31.3	31.3	31.3	31.3	34.0	36.6	36.6	36.6	39.1
90°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	62.4	83.3	93.7	80.5
92.5°	234.2	224.9	187.6	150.4	187.6	224.9	234.2	332.0	462.3	527.5	463.2
95°	794.9	766.7	653.9	541.0	653.9	766.7	794.9	1043.9	1375.8	1541.8	1302.1
97.5°	1835.1	1781.5	1566.7	1352.0	1566.7	1781.5	1835.1	1992.5	2202.3	2307.2	1907.6
100°	2577.0	2513.1	2257.3	2001.5	2257.3	2513.1	2577.0	2565.5	2550.2	2542.5	2099.1
102.5°	3210.5	3155.8	2936.6	2717.6	2936.6	3155.8	3210.5	3010.0	2742.8	2609.1	2159.4
105°	3950.0	3920.6	3802.8	3685.0	3802.8	3920.6	3950.0	3500.6	2901.4	2601.7	2166.2
107.5°	4334.6	4341.7	4370.1	4398.6	4370.1	4341.7	4334.6	3707.7	2871.7	2453.8	2069.9
110°	4433.2	4463.8	4586.5	4709.2	4586.5	4463.8	4433.2	3732.3	2797.8	2330.6	1984.4



TEST NUMBER: P936020

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4370.2	4417.3	4605.8	4794.2	4605.8	4417.3	4370.2	3652.9	2696.5	2218.4	1909.7
115°	4157.0	4222.3	4483.6	4744.9	4483.6	4222.3	4157.0	3466.0	2544.7	2084.1	1824.1
117.5°	3862.5	3934.9	4224.7	4514.5	4224.7	3934.9	3862.5	3238.9	2407.4	1991.6	1770.6
120°	3664.1	3734.4	4016.0	4297.5	4016.0	3734.4	3664.1	3094.3	2334.5	1954.7	1752.5
122.5°	3465.6	3535.1	3812.8	4090.5	3812.8	3535.1	3465.6	2952.5	2268.3	1926.3	1743.1
125°	3203.1	3267.0	3522.9	3778.7	3522.9	3267.0	3203.1	2767.2	2186.0	1895.5	1735.2
127.5°	2992.4	3046.3	3262.2	3478.0	3262.2	3046.3	2992.4	2618.1	2119.1	1869.6	1730.8
130°	2859.3	2909.2	3108.5	3307.9	3108.5	2909.2	2859.3	2526.1	2081.8	1859.7	1733.4
132.5°	2745.8	2790.5	2969.0	3147.7	2969.0	2790.5	2745.8	2447.6	2049.9	1851.1	1735.3
135°	2585.7	2624.1	2778.1	2932.0	2778.1	2624.1	2585.7	2335.9	2002.9	1836.3	1733.6
137.5°	2467.3	2498.8	2624.8	2750.8	2624.8	2498.8	2467.3	2256.2	1974.7	1833.9	1744.3
140°	2372.5	2401.9	2519.7	2637.5	2519.7	2401.9	2372.5	2190.1	1946.9	1825.2	1746.1
142.5°	2305.9	2331.2	2432.6	2533.9	2432.6	2331.2	2305.9	2145.6	1932.0	1825.2	1752.4
145°	2206.1	2225.3	2301.9	2378.6	2301.9	2225.3	2206.1	2075.0	1900.2	1812.9	1752.4
147.5°	2122.2	2138.1	2201.7	2265.2	2201.7	2138.1	2122.2	2019.1	1881.6	1812.9	1764.5
150°	2074.2	2087.1	2138.6	2190.1	2138.6	2087.1	2074.2	1987.1	1871.0	1812.9	1770.7
152.5°	2036.0	2045.7	2084.6	2123.5	2084.6	2045.7	2036.0	1961.6	1862.5	1812.9	1774.8
155°	1990.4	1996.8	2022.6	2048.3	2022.6	1996.8	1990.4	1931.2	1852.3	1812.9	1783.8
157.5°	1951.0	1955.5	1973.5	1991.6	1973.5	1955.5	1951.0	1905.0	1843.6	1812.9	1792.9
160°	1931.2	1933.8	1944.3	1954.7	1944.3	1933.8	1931.2	1891.8	1839.2	1812.9	1797.0
162.5°	1912.8	1915.2	1925.0	1934.9	1925.0	1915.2	1912.8	1879.5	1835.1	1812.9	1801.4
165°	1884.4	1887.0	1897.5	1907.8	1897.5	1887.0	1884.4	1860.6	1828.8	1812.9	1807.6
167.5°	1872.1	1873.1	1877.6	1881.9	1877.6	1873.1	1872.1	1856.5	1835.6	1825.2	1820.9
170°	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1872.1	1856.5	1835.6	1825.2	1824.9
172.5°	1862.2	1861.2	1857.4	1853.6	1857.4	1861.2	1862.2	1849.8	1833.4	1825.2	1825.2
175°	1848.6	1848.6	1848.6	1848.6	1848.6	1848.6	1848.6	1840.8	1830.5	1825.2	1827.7
177.5°	1846.2	1845.1	1840.6	1836.3	1840.6	1845.1	1846.2	1840.1	1831.9	1827.7	1829.6
180°	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3



TEST NUMBER: P936020

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2759.6	2759.6	2759.6	2759.6	2759.6
2.5°	2725.6	2738.7	2746.5	2757.0	2783.1
5°	2621.2	2670.8	2686.5	2725.6	2772.6
7.5°	2391.5	2542.9	2584.6	2678.7	2751.8
10°	2169.5	2321.0	2394.0	2616.0	2725.6
12.5°	2057.3	2146.0	2195.6	2506.4	2689.0
15°	1986.8	2049.4	2086.0	2360.1	2647.3
17.5°	1931.9	1976.4	2002.5	2216.6	2589.8
20°	1898.0	1918.9	1942.4	2112.1	2524.6
22.5°	1874.5	1861.5	1879.8	2039.0	2435.8
25°	1858.8	1809.2	1830.2	1981.5	2331.4
27.5°	1872.0	1762.3	1770.1	1929.4	2221.7
30°	1874.5	1704.8	1707.5	1874.5	2099.0
32.5°	1856.3	1644.8	1647.4	1806.7	1960.7
35°	1811.9	1574.3	1571.7	1728.3	1772.7
37.5°	1751.8	1498.6	1498.6	1642.2	1566.5
40°	1678.7	1422.8	1430.7	1529.9	1383.7
42.5°	1590.0	1341.9	1352.4	1381.1	1247.9
45°	1493.4	1263.7	1271.5	1167.0	1143.5
47.5°	1386.4	1182.6	1185.3	968.6	1109.6
50°	1258.4	1099.2	1088.7	830.2	1107.0
52.5°	1146.1	1007.8	976.4	751.9	1005.2
55°	1036.5	911.1	843.3	691.9	932.1
57.5°	939.9	785.9	720.5	621.4	916.4
60°	851.1	663.1	613.5	545.7	840.7
62.5°	778.0	571.8	561.3	493.4	762.3
65°	699.7	509.1	506.4	449.0	647.4
67.5°	624.0	467.3	464.8	407.3	493.4
70°	543.0	423.0	417.7	362.9	365.5
72.5°	459.5	373.4	368.1	326.3	302.8
75°	375.9	315.9	313.3	284.5	245.4
77.5°	295.0	250.7	255.9	229.7	180.1
80°	211.4	182.8	188.0	164.5	135.8
82.5°	141.0	120.1	125.3	104.4	91.4
85°	78.3	67.9	70.4	54.8	41.8
87.5°	36.6	31.3	31.3	20.8	13.0
90°	54.2	34.5	32.0	22.2	12.4
92.5°	334.4	237.9	217.0	133.1	49.3
95°	822.8	463.4	425.0	271.7	118.4
97.5°	1108.4	509.0	475.2	339.9	204.6
100°	1212.4	547.3	516.5	393.8	271.1
102.5°	1260.0	585.4	556.7	442.3	327.8
105°	1295.3	642.1	617.9	520.9	424.0
107.5°	1301.9	725.9	703.3	613.0	522.6
110°	1292.0	772.7	752.4	670.8	589.1



TEST NUMBER: P936020

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1292.4	829.4	810.0	732.2	654.5
115°	1304.4	914.5	896.5	824.8	753.1
117.5°	1328.6	997.1	980.8	915.6	850.4
120°	1348.3	1045.1	1029.8	968.4	907.1
122.5°	1376.7	1101.8	1086.3	1024.5	962.5
125°	1414.8	1174.5	1160.4	1104.0	1047.6
127.5°	1453.1	1244.8	1230.6	1173.5	1116.6
130°	1481.0	1291.6	1276.3	1214.9	1153.6
132.5°	1503.6	1329.8	1314.5	1253.2	1191.8
135°	1528.2	1374.2	1360.3	1304.4	1248.4
137.5°	1565.2	1430.8	1417.0	1361.8	1306.4
140°	1587.8	1469.1	1456.3	1405.4	1354.4
142.5°	1606.7	1497.4	1485.7	1438.5	1391.4
145°	1631.4	1540.6	1530.3	1489.2	1448.1
147.5°	1667.5	1594.8	1584.9	1544.8	1504.8
150°	1686.3	1623.1	1614.1	1577.9	1541.8
152.5°	1698.8	1641.7	1634.8	1607.4	1580.0
155°	1725.8	1682.3	1677.2	1657.0	1636.7
157.5°	1752.9	1723.0	1718.0	1698.4	1678.6
160°	1765.3	1741.4	1737.6	1722.3	1707.0
162.5°	1778.4	1761.2	1758.3	1746.8	1735.3
165°	1797.3	1789.5	1786.9	1776.4	1766.0
167.5°	1812.1	1805.6	1804.3	1799.3	1794.4
170°	1824.4	1824.0	1822.8	1817.8	1812.9
172.5°	1825.2	1825.2	1824.9	1823.8	1822.8
175°	1832.6	1836.3	1836.3	1836.3	1836.3
177.5°	1833.4	1836.3	1836.3	1836.3	1836.3
180°	1836.3	1836.3	1836.3	1836.3	1836.3



TEST NUMBER: P936020  
 CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-8

**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	12.39	13.15	13.45	14.21	15.65	15.23	15.99	16.29	17.05	18.49
	3H	12.86	13.54	13.93	14.61	16.07	16.57	17.25	17.64	18.32	19.78
	4H	13.05	13.69	14.13	14.76	16.23	17.01	17.66	18.09	18.73	20.19
	6H	13.16	13.76	14.25	14.83	16.31	17.29	17.89	18.38	18.96	20.44
	8H	13.16	13.73	14.25	14.82	16.29	17.37	17.93	18.46	19.02	20.49
	12H	13.13	13.66	14.22	14.75	16.24	17.40	17.94	18.50	19.02	20.52
4H	2H	13.41	14.06	14.50	15.13	16.59	15.63	16.27	16.71	17.34	18.81
	3H	14.43	14.97	15.52	16.07	17.54	17.13	17.66	18.22	18.76	20.24
	4H	14.70	15.20	15.80	16.29	17.78	17.65	18.14	18.75	19.23	20.73
	6H	14.82	15.25	15.93	16.36	17.85	18.01	18.44	19.12	19.55	21.04
	8H	14.83	15.22	15.93	16.33	17.83	18.12	18.51	19.22	19.62	21.12
	12H	14.79	15.15	15.91	16.26	17.77	18.17	18.53	19.29	19.65	21.16
8H	4H	15.15	15.55	16.26	16.65	18.16	17.77	18.16	18.87	19.27	20.77
	6H	15.41	15.73	16.54	16.88	18.38	18.20	18.53	19.33	19.67	21.18
	8H	15.45	15.74	16.58	16.86	18.39	18.35	18.64	19.49	19.77	21.29
	12H	15.43	15.68	16.57	16.80	18.36	18.45	18.70	19.59	19.82	21.38
12H	4H	15.15	15.51	16.28	16.63	18.14	17.73	18.08	18.85	19.20	20.71
	6H	15.47	15.75	16.60	16.88	18.40	18.20	18.48	19.33	19.61	21.13
	8H	15.53	15.78	16.67	16.90	18.46	18.36	18.61	19.49	19.73	21.29