

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: P935209

Luminaire Tested: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935209
REPORT IS A COMBINATION OF REPORTS P933745 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

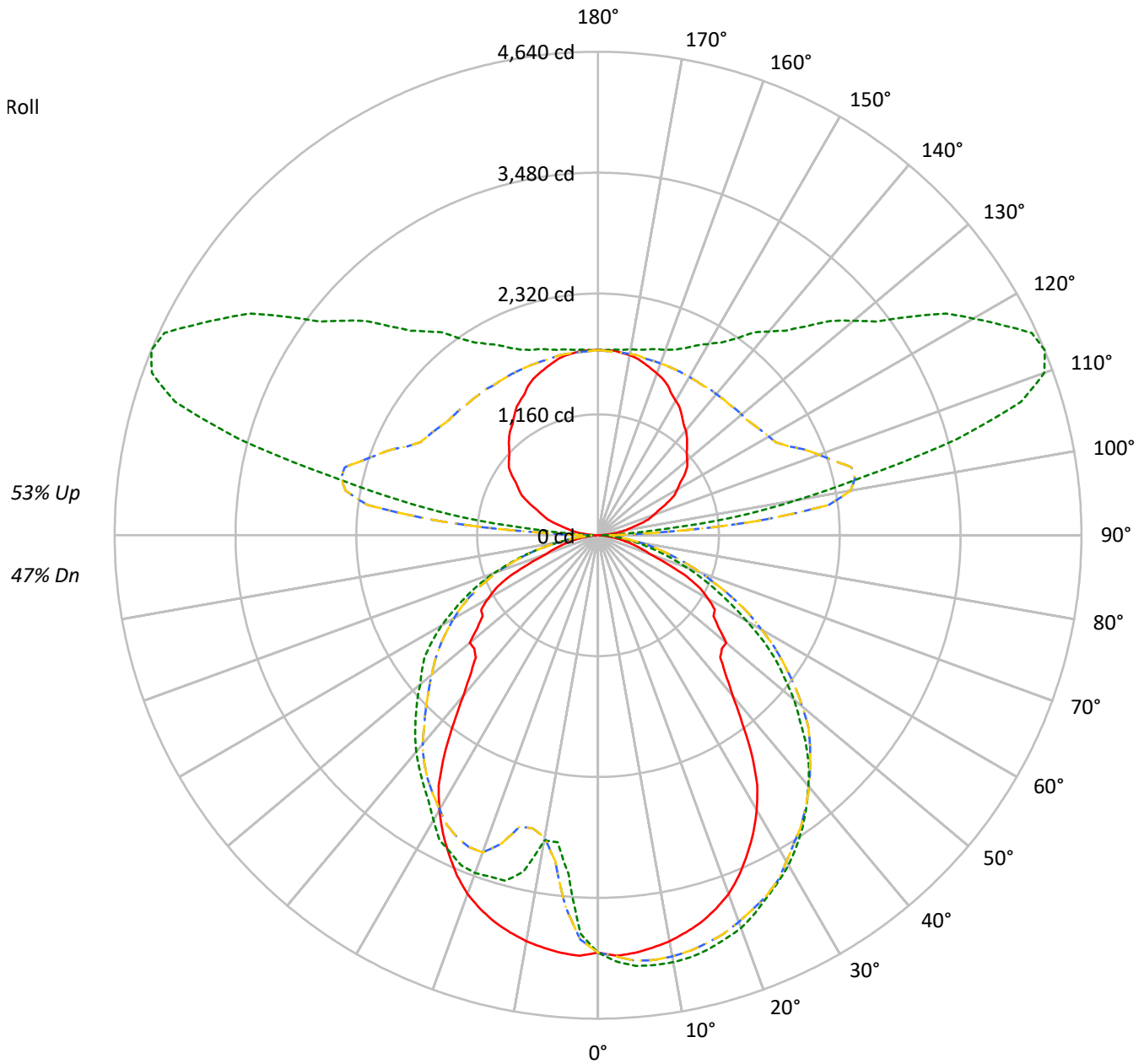
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21914.4 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 174
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: P935209
CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

Luminous Intensity Polar Plot



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



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12389	12389	12389	12389
5°	12486	12506	12486	9833
10°	12407	12319	12407	8807
15°	12277	12052	12277	10064
20°	12025	11736	12025	10085
25°	11504	11275	11504	9871
30°	10829	10892	10829	9402
35°	9659	10407	9659	8886
40°	8053	9837	8053	8496
45°	7200	9170	7200	8048
50°	7655	8374	7655	7599
55°	7209	7517	7209	7338
60°	7440	6384	7440	6722
65°	6757	5277	6757	5899
70°	4690	4206	4690	4945
75°	4128	3109	4128	3723
80°	3351	2055	3351	2238
85°	1964	1088	1964	926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11028 cd/sqm



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	1.6
10°-20°	1026.5	4.7
20°-30°	1586.8	7.2
30°-40°	1894.3	8.6
40°-50°	1905.5	8.7
50°-60°	1658.0	7.6
60°-70°	1175.5	5.4
70°-80°	621.9	2.8
80°-90°	161.7	0.7
90°-100°	866.4	4.0
100°-110°	2277.9	10.4
110°-120°	2361.9	10.8
120°-130°	1894.6	8.6
130°-140°	1486.5	6.8
140°-150°	1141.0	5.2
150°-160°	821.7	3.7
160°-170°	502.8	2.3
170°-180°	169.9	0.8
0°-30°	2974.9	13.6
0°-40°	4869.3	22.2
0°-60°	8432.7	38.5
0°-90°	10391.8	47.4
90°-120°	5506.2	25.1
90°-150°	10028.3	45.8
90°-180°	11523.0	52.6
0°-180°	21914.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4005	4005	4005	4005	4005	
5°	4024	4149	4024	3263	4024	382
15°	3842	4111	3842	3433	3842	1081
25°	3384	3835	3384	3357	3384	1554
35°	2573	3422	2573	2922	2573	1592
45°	1660	2819	1660	2474	1660	1330
55°	1353	2080	1353	2031	1353	1243
65°	940	1254	940	1402	940	898
75°	356	595	356	712	356	375
85°	61	152	61	129	61	82
90°	12	45	12	45	12	12
95°	114	524	114	524	114	127
105°	410	3567	410	3567	410	435
115°	729	4593	729	4593	729	720
125°	1014	3658	1014	3658	1014	900
135°	1208	2838	1208	2838	1208	935
145°	1402	2302	1402	2302	1402	878
155°	1584	1983	1584	1983	1584	728
165°	1709	1847	1709	1847	1709	482
175°	1778	1789	1778	1789	1778	169
180°	1778	1778	1778	1778	1778	



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	4039.4	4039.4	4062.1	4069.7	4069.7	4058.3	4046.9	4058.3	4092.4	4103.8	4100.0
5°	4024.3	4054.6	4096.3	4103.8	4111.4	4107.6	4100.0	4107.6	4145.5	4153.1	4156.9
7.5°	3993.9	4050.8	4103.8	4115.2	4126.6	4115.2	4111.4	4119.0	4156.9	4164.4	4164.4
10°	3956.0	4035.7	4096.3	4103.8	4115.2	4103.8	4103.8	4119.0	4156.9	4164.4	4168.3
12.5°	3903.0	4012.9	4069.7	4077.3	4092.4	4088.6	4084.9	4100.0	4138.0	4145.5	4145.5
15°	3842.4	3971.2	4024.3	4031.8	4058.3	4050.8	4050.8	4066.0	4107.6	4119.0	4115.2
17.5°	3759.0	3918.2	3978.8	3990.2	4009.1	4005.3	4009.1	4024.3	4062.1	4069.7	4073.5
20°	3664.3	3846.2	3918.2	3929.5	3948.5	3948.5	3948.5	3967.4	4005.3	4020.5	4020.5
22.5°	3535.4	3770.4	3846.2	3853.7	3876.5	3876.5	3884.0	3910.5	3944.6	3948.5	3948.5
25°	3383.9	3687.0	3751.4	3774.2	3796.8	3808.2	3819.6	3834.8	3846.2	3842.4	3846.2
27.5°	3224.7	3580.9	3664.3	3679.5	3709.8	3721.1	3736.2	3740.1	3743.8	3755.2	3747.6
30°	3046.6	3433.1	3558.1	3573.3	3622.6	3630.1	3615.0	3622.6	3641.5	3649.1	3656.7
32.5°	2845.7	3213.3	3448.3	3482.3	3527.8	3505.1	3501.4	3512.7	3543.0	3543.0	3550.6
35°	2573.0	3042.9	3346.0	3376.3	3410.3	3383.9	3399.0	3402.8	3421.7	3433.1	3429.4
37.5°	2273.6	2895.1	3239.9	3262.6	3289.1	3255.0	3277.7	3289.1	3304.3	3296.7	3296.7
40°	2008.4	2663.9	3114.8	3129.9	3152.7	3126.2	3148.9	3156.5	3164.1	3156.5	3152.7
42.5°	1811.3	2410.0	2982.1	3001.2	2986.0	3004.9	3012.5	3027.7	3016.3	3001.2	3001.2
45°	1659.7	2341.8	2838.2	2860.9	2838.2	2868.5	2879.9	2879.9	2845.7	2838.2	2834.4
47.5°	1610.5	2205.4	2694.2	2694.2	2682.8	2720.7	2739.7	2713.1	2679.0	2667.7	2667.7
50°	1606.7	2053.8	2497.2	2482.0	2535.0	2580.5	2561.6	2535.0	2508.5	2466.9	2466.9
52.5°	1458.9	1868.1	2243.3	2300.1	2383.5	2410.0	2379.7	2353.2	2307.7	2288.8	2273.6
55°	1352.7	1674.9	2012.1	2125.8	2212.9	2247.1	2190.2	2163.7	2095.5	2084.1	2076.5
57.5°	1330.1	1394.4	1800.0	1943.9	2050.0	2046.2	2012.1	1962.9	1906.0	1894.7	1890.9
60°	1220.1	1007.9	1572.5	1743.1	1853.0	1841.6	1811.3	1765.8	1712.8	1705.2	1697.6
62.5°	1106.5	731.3	1314.9	1508.2	1663.5	1659.7	1633.2	1565.0	1527.1	1508.2	1493.0
65°	939.7	613.8	935.9	1254.3	1477.8	1485.4	1428.6	1379.3	1337.6	1314.9	1311.1
67.5°	716.1	500.2	632.8	1045.9	1299.8	1292.1	1220.1	1197.4	1144.3	1133.0	1110.3
70°	530.5	333.5	439.6	848.8	1125.4	1106.5	1049.6	1023.1	973.9	947.3	932.2
72.5°	439.6	269.0	322.1	659.4	947.3	924.5	875.3	845.0	803.3	780.6	765.5
75°	356.2	284.2	246.3	488.8	769.2	754.1	708.6	678.3	644.2	613.8	617.7
77.5°	261.5	265.3	197.0	360.0	610.1	587.4	560.8	522.9	507.7	477.4	477.4
80°	197.0	208.4	147.8	246.3	439.6	439.6	416.8	390.3	363.8	348.7	348.7
82.5°	132.6	132.6	109.8	155.4	299.3	287.9	272.8	265.3	250.1	242.5	242.5
85°	60.6	75.8	68.2	94.7	162.9	170.6	170.6	162.9	159.2	151.5	155.4
87.5°	18.9	34.1	41.7	53.1	83.4	87.2	90.9	90.9	90.9	94.7	94.7
90°	12.0	21.5	31.0	33.4	52.5	77.9	90.6	80.6	60.4	45.3	45.3
92.5°	47.7	128.8	209.9	230.2	323.7	448.3	510.6	447.5	321.3	226.7	217.7
95°	114.5	263.0	411.5	448.6	796.4	1260.4	1492.3	1331.7	1010.4	769.4	742.0
97.5°	198.0	329.0	459.9	492.7	1072.8	1846.3	2233.1	2131.6	1928.5	1776.2	1724.3
100°	262.4	381.2	499.9	529.6	1173.4	2031.8	2461.0	2468.5	2483.3	2494.4	2432.5
102.5°	317.3	428.1	538.9	566.6	1219.6	2090.2	2525.5	2654.8	2913.5	3107.6	3054.5
105°	410.4	504.2	598.1	621.5	1253.8	2096.8	2518.3	2808.3	3388.4	3823.3	3794.8
107.5°	505.8	593.3	680.8	702.7	1260.1	2003.4	2375.1	2779.7	3588.7	4195.5	4202.4
110°	570.3	649.2	728.2	748.0	1250.5	1920.7	2255.8	2708.1	3612.5	4290.9	4320.6



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	633.4	708.8	784.0	802.8	1251.0	1848.5	2147.3	2610.2	3535.9	4230.1	4275.7
115°	728.9	798.4	867.8	885.2	1262.5	1765.6	2017.3	2463.1	3354.9	4023.7	4086.9
117.5°	823.1	886.2	949.3	965.1	1286.0	1713.8	1927.8	2330.2	3135.0	3738.6	3808.7
120°	878.0	937.4	996.8	1011.6	1305.1	1696.4	1892.0	2259.7	2995.1	3546.6	3614.7
122.5°	931.7	991.7	1051.5	1066.5	1332.6	1687.2	1864.6	2195.6	2857.9	3354.5	3421.7
125°	1014.0	1068.6	1123.2	1136.9	1369.5	1679.7	1834.8	2116.0	2678.5	3100.4	3162.3
127.5°	1080.8	1135.9	1191.1	1204.8	1406.5	1675.3	1809.7	2051.2	2534.2	2896.4	2948.6
130°	1116.6	1176.0	1235.3	1250.2	1433.5	1678.0	1800.1	2015.2	2445.2	2767.6	2815.9
132.5°	1153.6	1213.0	1272.3	1287.2	1455.3	1679.6	1791.7	1984.2	2369.2	2657.9	2701.1
135°	1208.5	1262.5	1316.6	1330.1	1479.2	1678.1	1777.5	1938.7	2260.9	2502.7	2540.0
137.5°	1264.5	1318.0	1371.6	1385.0	1515.0	1688.4	1775.1	1911.3	2183.9	2388.3	2418.8
140°	1311.1	1360.4	1409.6	1422.0	1536.9	1690.1	1766.7	1884.4	2119.8	2296.4	2324.9
142.5°	1346.8	1392.4	1438.0	1449.4	1555.1	1696.1	1766.7	1870.1	2076.9	2232.0	2256.4
145°	1401.7	1441.5	1481.2	1491.2	1579.0	1696.2	1754.8	1839.3	2008.5	2135.3	2153.9
147.5°	1456.6	1495.3	1534.0	1543.7	1614.0	1707.9	1754.8	1821.4	1954.4	2054.3	2069.6
150°	1492.3	1527.3	1562.3	1571.1	1632.4	1714.0	1754.8	1811.0	1923.4	2007.7	2020.1
152.5°	1529.3	1555.8	1582.4	1589.0	1644.2	1717.9	1754.8	1802.8	1898.7	1970.7	1980.1
155°	1584.2	1603.8	1623.5	1628.4	1670.5	1726.7	1754.8	1793.0	1869.3	1926.5	1932.7
157.5°	1624.7	1643.8	1663.0	1667.7	1696.8	1735.5	1754.8	1784.5	1843.8	1888.4	1892.8
160°	1652.2	1667.1	1681.9	1685.6	1708.7	1739.4	1754.8	1780.3	1831.1	1869.3	1871.8
162.5°	1679.6	1690.7	1701.9	1704.6	1721.4	1743.6	1754.8	1776.2	1819.2	1851.4	1853.8
165°	1709.4	1719.5	1729.6	1732.1	1739.6	1749.8	1754.8	1770.2	1800.9	1824.0	1826.4
167.5°	1736.9	1741.6	1746.4	1747.7	1754.0	1762.5	1766.7	1776.8	1797.0	1812.1	1813.1
170°	1754.8	1759.6	1764.4	1765.5	1765.9	1766.4	1766.7	1776.8	1797.0	1812.1	1812.1
172.5°	1764.3	1765.3	1766.4	1766.7	1766.7	1766.7	1766.7	1774.6	1790.6	1802.5	1801.6
175°	1777.5	1777.5	1777.5	1777.5	1773.9	1769.1	1766.7	1771.8	1781.8	1789.3	1789.3
177.5°	1777.5	1777.5	1777.5	1777.5	1774.7	1771.0	1769.1	1773.1	1781.0	1787.0	1785.9
180°	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	4107.6	4096.3	4107.6	4100.0	4103.8	4092.4	4058.3	4046.9	4058.3	4069.7	4069.7
5°	4156.9	4149.3	4156.9	4156.9	4153.1	4145.5	4107.6	4100.0	4107.6	4111.4	4103.8
7.5°	4172.0	4160.7	4172.0	4164.4	4164.4	4156.9	4119.0	4111.4	4115.2	4126.6	4115.2
10°	4172.0	4160.7	4172.0	4168.3	4164.4	4156.9	4119.0	4103.8	4103.8	4115.2	4103.8
12.5°	4153.1	4145.5	4153.1	4145.5	4145.5	4138.0	4100.0	4084.9	4088.6	4092.4	4077.3
15°	4122.8	4111.4	4122.8	4115.2	4119.0	4107.6	4066.0	4050.8	4050.8	4058.3	4031.8
17.5°	4077.3	4062.1	4077.3	4073.5	4069.7	4062.1	4024.3	4009.1	4005.3	4009.1	3990.2
20°	4024.3	4012.9	4024.3	4020.5	4020.5	4005.3	3967.4	3948.5	3948.5	3948.5	3929.5
22.5°	3940.9	3929.5	3940.9	3948.5	3948.5	3944.6	3910.5	3884.0	3876.5	3876.5	3853.7
25°	3846.2	3834.8	3846.2	3846.2	3842.4	3846.2	3834.8	3819.6	3808.2	3796.8	3774.2
27.5°	3755.2	3747.6	3755.2	3747.6	3755.2	3743.8	3740.1	3736.2	3721.1	3709.8	3679.5
30°	3664.3	3656.7	3664.3	3656.7	3649.1	3641.5	3622.6	3615.0	3630.1	3622.6	3573.3
32.5°	3550.6	3543.0	3550.6	3550.6	3543.0	3543.0	3512.7	3501.4	3505.1	3527.8	3482.3
35°	3433.1	3421.7	3433.1	3429.4	3433.1	3421.7	3402.8	3399.0	3383.9	3410.3	3376.3
37.5°	3296.7	3285.3	3296.7	3296.7	3296.7	3304.3	3289.1	3277.7	3255.0	3289.1	3262.6
40°	3156.5	3141.3	3156.5	3152.7	3156.5	3164.1	3156.5	3148.9	3126.2	3152.7	3129.9
42.5°	2997.3	2993.5	2997.3	3001.2	3001.2	3016.3	3027.7	3012.5	3004.9	2986.0	3001.2
45°	2826.8	2819.2	2826.8	2834.4	2838.2	2845.7	2879.9	2879.9	2868.5	2838.2	2860.9
47.5°	2645.0	2626.0	2645.0	2667.7	2667.7	2679.0	2713.1	2739.7	2720.7	2682.8	2694.2
50°	2451.7	2455.5	2451.7	2466.9	2466.9	2508.5	2535.0	2561.6	2580.5	2535.0	2482.0
52.5°	2262.2	2258.5	2262.2	2273.6	2288.8	2307.7	2353.2	2379.7	2410.0	2383.5	2300.1
55°	2072.7	2080.4	2072.7	2076.5	2084.1	2095.5	2163.7	2190.2	2247.1	2212.9	2125.8
57.5°	1883.3	1871.9	1883.3	1890.9	1894.7	1906.0	1962.9	2012.1	2046.2	2050.0	1943.9
60°	1663.5	1648.3	1663.5	1697.6	1705.2	1712.8	1765.8	1811.3	1841.6	1853.0	1743.1
62.5°	1470.2	1443.8	1470.2	1493.0	1508.2	1527.1	1565.0	1633.2	1659.7	1663.5	1508.2
65°	1265.6	1254.3	1265.6	1311.1	1314.9	1337.6	1379.3	1428.6	1485.4	1477.8	1254.3
67.5°	1080.0	1080.0	1080.0	1110.3	1133.0	1144.3	1197.4	1220.1	1292.1	1299.8	1045.9
70°	909.4	905.6	909.4	932.2	947.3	973.9	1023.1	1049.6	1106.5	1125.4	848.8
72.5°	746.5	742.7	746.5	765.5	780.6	803.3	845.0	875.3	924.5	947.3	659.4
75°	602.5	594.9	602.5	617.7	613.8	644.2	678.3	708.6	754.1	769.2	488.8
77.5°	462.3	462.3	462.3	477.4	477.4	507.7	522.9	560.8	587.4	610.1	360.0
80°	344.8	341.0	344.8	348.7	348.7	363.8	390.3	416.8	439.6	439.6	246.3
82.5°	242.5	234.9	242.5	242.5	242.5	250.1	265.3	272.8	287.9	299.3	155.4
85°	151.5	151.5	151.5	155.4	151.5	159.2	162.9	170.6	170.6	162.9	94.7
87.5°	98.6	94.7	98.6	94.7	94.7	90.9	90.9	90.9	87.2	83.4	53.1
90°	45.3	45.3	45.3	45.3	45.3	60.4	80.6	90.6	77.9	52.5	33.4
92.5°	181.5	145.5	181.5	217.7	226.7	321.3	447.5	510.6	448.3	323.7	230.2
95°	632.9	523.7	632.9	742.0	769.4	1010.4	1331.7	1492.3	1260.4	796.4	448.6
97.5°	1516.5	1308.7	1516.5	1724.3	1776.2	1928.5	2131.6	2233.1	1846.3	1072.8	492.7
100°	2184.9	1937.3	2184.9	2432.5	2494.4	2483.3	2468.5	2461.0	2031.8	1173.4	529.6
102.5°	2842.5	2630.4	2842.5	3054.5	3107.6	2913.5	2654.8	2525.5	2090.2	1219.6	566.6
105°	3680.8	3566.8	3680.8	3794.8	3823.3	3388.4	2808.3	2518.3	2096.8	1253.8	621.5
107.5°	4230.0	4257.5	4230.0	4202.4	4195.5	3588.7	2779.7	2375.1	2003.4	1260.1	702.7
110°	4439.4	4558.2	4439.4	4320.6	4290.9	3612.5	2708.1	2255.8	1920.7	1250.5	748.0



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4458.1	4640.5	4458.1	4275.7	4230.1	3535.9	2610.2	2147.3	1848.5	1251.0	802.8
115°	4339.9	4592.7	4339.9	4086.9	4023.7	3354.9	2463.1	2017.3	1765.6	1262.5	885.2
117.5°	4089.2	4369.7	4089.2	3808.7	3738.6	3135.0	2330.2	1927.8	1713.8	1286.0	965.1
120°	3887.2	4159.7	3887.2	3614.7	3546.6	2995.1	2259.7	1892.0	1696.4	1305.1	1011.6
122.5°	3690.4	3959.3	3690.4	3421.7	3354.5	2857.9	2195.6	1864.6	1687.2	1332.6	1066.5
125°	3409.9	3657.5	3409.9	3162.3	3100.4	2678.5	2116.0	1834.8	1679.7	1369.5	1136.9
127.5°	3157.6	3366.5	3157.6	2948.6	2896.4	2534.2	2051.2	1809.7	1675.3	1406.5	1204.8
130°	3008.8	3201.8	3008.8	2815.9	2767.6	2445.2	2015.2	1800.1	1678.0	1433.5	1250.2
132.5°	2873.9	3046.8	2873.9	2701.1	2657.9	2369.2	1984.2	1791.7	1679.6	1455.3	1287.2
135°	2688.9	2838.0	2688.9	2540.0	2502.7	2260.9	1938.7	1777.5	1678.1	1479.2	1330.1
137.5°	2540.7	2662.7	2540.7	2418.8	2388.3	2183.9	1911.3	1775.1	1688.4	1515.0	1385.0
140°	2438.9	2552.9	2438.9	2324.9	2296.4	2119.8	1884.4	1766.7	1690.1	1536.9	1422.0
142.5°	2354.5	2452.6	2354.5	2256.4	2232.0	2076.9	1870.1	1766.7	1696.1	1555.1	1449.4
145°	2228.1	2302.3	2228.1	2153.9	2135.3	2008.5	1839.3	1754.8	1696.2	1579.0	1491.2
147.5°	2131.1	2192.6	2131.1	2069.6	2054.3	1954.4	1821.4	1754.8	1707.9	1614.0	1543.7
150°	2070.0	2119.8	2070.0	2020.1	2007.7	1923.4	1811.0	1754.8	1714.0	1632.4	1571.1
152.5°	2017.7	2055.4	2017.7	1980.1	1970.7	1898.7	1802.8	1754.8	1717.9	1644.2	1589.0
155°	1957.7	1982.6	1957.7	1932.7	1926.5	1869.3	1793.0	1754.8	1726.7	1670.5	1628.4
157.5°	1910.3	1927.8	1910.3	1892.8	1888.4	1843.8	1784.5	1754.8	1735.5	1696.8	1667.7
160°	1881.9	1892.0	1881.9	1871.8	1869.3	1831.1	1780.3	1754.8	1739.4	1708.7	1685.6
162.5°	1863.3	1872.9	1863.3	1853.8	1851.4	1819.2	1776.2	1754.8	1743.6	1721.4	1704.6
165°	1836.6	1846.6	1836.6	1826.4	1824.0	1800.9	1770.2	1754.8	1749.8	1739.6	1732.1
167.5°	1817.4	1821.6	1817.4	1813.1	1812.1	1797.0	1776.8	1766.7	1762.5	1754.0	1747.7
170°	1812.1	1812.1	1812.1	1812.1	1812.1	1797.0	1776.8	1766.7	1766.4	1765.9	1765.5
172.5°	1797.9	1794.1	1797.9	1801.6	1802.5	1790.6	1774.6	1766.7	1766.7	1766.7	1766.7
175°	1789.3	1789.3	1789.3	1789.3	1789.3	1781.8	1771.8	1766.7	1769.1	1773.9	1777.5
177.5°	1781.7	1777.5	1781.7	1785.9	1787.0	1781.0	1773.1	1769.1	1771.0	1774.7	1777.5
180°	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	4062.1	4039.4	4039.4	4001.5	3986.3	3975.0	3956.0	3899.2	3884.0	3868.8	3891.6
5°	4096.3	4054.6	4024.3	3956.0	3899.2	3876.5	3804.5	3668.1	3577.1	3508.9	3471.0
7.5°	4103.8	4050.8	3993.9	3887.9	3751.4	3690.8	3471.0	3221.0	3152.7	3092.1	3054.1
10°	4096.3	4035.7	3956.0	3796.8	3474.8	3368.7	3148.9	2986.0	2944.3	2932.9	2944.3
12.5°	4069.7	4012.9	3903.0	3637.8	3186.8	3114.8	2986.0	2891.2	2883.7	2902.6	3004.9
15°	4024.3	3971.2	3842.4	3425.5	3027.7	2974.6	2883.7	2849.5	2891.2	3023.8	3330.8
17.5°	3978.8	3918.2	3759.0	3217.1	2906.4	2868.5	2804.0	2872.3	3107.2	3285.3	3387.7
20°	3918.2	3846.2	3664.3	3065.5	2819.2	2785.1	2754.8	3061.8	3239.9	3304.3	3361.1
22.5°	3846.2	3770.4	3535.4	2959.5	2728.3	2701.8	2720.7	3167.9	3239.9	3285.3	3334.6
25°	3751.4	3687.0	3383.9	2876.1	2656.3	2626.0	2698.0	3156.5	3198.2	3209.6	3308.0
27.5°	3664.3	3580.9	3224.7	2800.3	2569.2	2557.8	2717.0	3107.2	3137.6	3148.9	3255.0
30°	3558.1	3433.1	3046.6	2720.7	2478.2	2474.4	2720.7	3046.6	3039.0	3069.3	3175.4
32.5°	3448.3	3213.3	2845.7	2622.2	2391.1	2387.2	2694.2	2955.7	2948.1	2989.8	3069.3
35°	3346.0	3042.9	2573.0	2508.5	2281.2	2284.9	2629.8	2849.5	2853.4	2891.2	2940.5
37.5°	3239.9	2895.1	2273.6	2383.5	2175.1	2175.1	2542.6	2751.1	2743.4	2754.8	2823.1
40°	3114.8	2663.9	2008.4	2220.5	2076.5	2065.2	2436.6	2645.0	2618.4	2614.7	2709.4
42.5°	2982.1	2410.0	1811.3	2004.5	1962.9	1947.7	2307.7	2516.1	2466.9	2478.2	2599.5
45°	2838.2	2341.8	1659.7	1693.8	1845.4	1834.0	2167.4	2368.3	2334.2	2364.6	2489.6
47.5°	2694.2	2205.4	1610.5	1405.8	1720.3	1716.6	2012.1	2224.3	2205.4	2235.7	2368.3
50°	2497.2	2053.8	1606.7	1205.0	1580.2	1595.3	1826.4	2084.1	2084.1	2110.7	2250.8
52.5°	2243.3	1868.1	1458.9	1091.3	1417.2	1462.7	1663.5	1962.9	1970.4	1997.0	2122.0
55°	2012.1	1674.9	1352.7	1004.2	1224.0	1322.4	1504.4	1837.8	1853.0	1879.5	1993.2
57.5°	1800.0	1394.4	1330.1	901.9	1045.9	1140.6	1364.1	1716.6	1724.1	1746.9	1856.7
60°	1572.5	1007.9	1220.1	792.0	890.5	962.5	1235.3	1572.5	1599.1	1614.2	1708.9
62.5°	1314.9	731.3	1106.5	716.1	814.7	829.9	1129.2	1436.1	1470.2	1481.6	1538.5
65°	935.9	613.8	939.7	651.8	735.2	738.9	1015.6	1296.0	1326.3	1345.2	1386.9
67.5°	632.8	500.2	716.1	591.1	674.5	678.3	905.6	1133.0	1174.6	1189.8	1216.4
70°	439.6	333.5	530.5	526.8	606.3	613.8	788.2	985.3	1023.1	1034.5	1049.6
72.5°	322.1	269.0	439.6	473.7	534.3	541.9	666.9	818.5	856.4	867.8	875.3
75°	246.3	284.2	356.2	413.0	454.7	458.5	545.7	666.9	693.5	701.0	704.8
77.5°	197.0	265.3	261.5	333.5	371.3	363.8	428.2	515.4	538.0	538.0	538.0
80°	147.8	208.4	197.0	238.7	272.8	265.3	307.0	367.6	375.1	382.7	379.0
82.5°	109.8	132.6	132.6	151.5	181.9	174.3	204.6	238.7	238.7	238.7	246.3
85°	68.2	75.8	60.6	79.5	102.3	98.6	113.7	128.9	132.6	132.6	125.0
87.5°	41.7	34.1	18.9	30.3	45.5	45.5	53.1	56.9	53.1	53.1	53.1
90°	31.0	21.5	12.0	21.5	31.0	33.4	52.5	77.9	90.6	80.6	60.4
92.5°	209.9	128.8	47.7	128.8	209.9	230.2	323.7	448.3	510.6	447.5	321.3
95°	411.5	263.0	114.5	263.0	411.5	448.6	796.4	1260.4	1492.3	1331.7	1010.4
97.5°	459.9	329.0	198.0	329.0	459.9	492.7	1072.8	1846.3	2233.1	2131.6	1928.5
100°	499.9	381.2	262.4	381.2	499.9	529.6	1173.4	2031.8	2461.0	2468.5	2483.3
102.5°	538.9	428.1	317.3	428.1	538.9	566.6	1219.6	2090.2	2525.5	2654.8	2913.5
105°	598.1	504.2	410.4	504.2	598.1	621.5	1253.8	2096.8	2518.3	2808.3	3388.4
107.5°	680.8	593.3	505.8	593.3	680.8	702.7	1260.1	2003.4	2375.1	2779.7	3588.7
110°	728.2	649.2	570.3	649.2	728.2	748.0	1250.5	1920.7	2255.8	2708.1	3612.5



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	784.0	708.8	633.4	708.8	784.0	802.8	1251.0	1848.5	2147.3	2610.2	3535.9
115°	867.8	798.4	728.9	798.4	867.8	885.2	1262.5	1765.6	2017.3	2463.1	3354.9
117.5°	949.3	886.2	823.1	886.2	949.3	965.1	1286.0	1713.8	1927.8	2330.2	3135.0
120°	996.8	937.4	878.0	937.4	996.8	1011.6	1305.1	1696.4	1892.0	2259.7	2995.1
122.5°	1051.5	991.7	931.7	991.7	1051.5	1066.5	1332.6	1687.2	1864.6	2195.6	2857.9
125°	1123.2	1068.6	1014.0	1068.6	1123.2	1136.9	1369.5	1679.7	1834.8	2116.0	2678.5
127.5°	1191.1	1135.9	1080.8	1135.9	1191.1	1204.8	1406.5	1675.3	1809.7	2051.2	2534.2
130°	1235.3	1176.0	1116.6	1176.0	1235.3	1250.2	1433.5	1678.0	1800.1	2015.2	2445.2
132.5°	1272.3	1213.0	1153.6	1213.0	1272.3	1287.2	1455.3	1679.6	1791.7	1984.2	2369.2
135°	1316.6	1262.5	1208.5	1262.5	1316.6	1330.1	1479.2	1678.1	1777.5	1938.7	2260.9
137.5°	1371.6	1318.0	1264.5	1318.0	1371.6	1385.0	1515.0	1688.4	1775.1	1911.3	2183.9
140°	1409.6	1360.4	1311.1	1360.4	1409.6	1422.0	1536.9	1690.1	1766.7	1884.4	2119.8
142.5°	1438.0	1392.4	1346.8	1392.4	1438.0	1449.4	1555.1	1696.1	1766.7	1870.1	2076.9
145°	1481.2	1441.5	1401.7	1441.5	1481.2	1491.2	1579.0	1696.2	1754.8	1839.3	2008.5
147.5°	1534.0	1495.3	1456.6	1495.3	1534.0	1543.7	1614.0	1707.9	1754.8	1821.4	1954.4
150°	1562.3	1527.3	1492.3	1527.3	1562.3	1571.1	1632.4	1714.0	1754.8	1811.0	1923.4
152.5°	1582.4	1555.8	1529.3	1555.8	1582.4	1589.0	1644.2	1717.9	1754.8	1802.8	1898.7
155°	1623.5	1603.8	1584.2	1603.8	1623.5	1628.4	1670.5	1726.7	1754.8	1793.0	1869.3
157.5°	1663.0	1643.8	1624.7	1643.8	1663.0	1667.7	1696.8	1735.5	1754.8	1784.5	1843.8
160°	1681.9	1667.1	1652.2	1667.1	1681.9	1685.6	1708.7	1739.4	1754.8	1780.3	1831.1
162.5°	1701.9	1690.7	1679.6	1690.7	1701.9	1704.6	1721.4	1743.6	1754.8	1776.2	1819.2
165°	1729.6	1719.5	1709.4	1719.5	1729.6	1732.1	1739.6	1749.8	1754.8	1770.2	1800.9
167.5°	1746.4	1741.6	1736.9	1741.6	1746.4	1747.7	1754.0	1762.5	1766.7	1776.8	1797.0
170°	1764.4	1759.6	1754.8	1759.6	1764.4	1765.5	1765.9	1766.4	1766.7	1776.8	1797.0
172.5°	1766.4	1765.3	1764.3	1765.3	1766.4	1766.7	1766.7	1766.7	1766.7	1774.6	1790.6
175°	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1773.9	1769.1	1766.7	1771.8	1781.8
177.5°	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1774.7	1771.0	1769.1	1773.1	1781.0
180°	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	3865.1	3853.7	3868.8	3827.2	3868.8	3853.7	3865.1	3891.6	3868.8	3884.0	3899.2
5°	3391.4	3372.5	3311.9	3262.6	3311.9	3372.5	3391.4	3471.0	3508.9	3577.1	3668.1
7.5°	3031.5	3016.3	3001.2	2970.8	3001.2	3016.3	3031.5	3054.1	3092.1	3152.7	3221.0
10°	2951.8	2955.7	2978.4	2974.6	2978.4	2955.7	2951.8	2944.3	2932.9	2944.3	2986.0
12.5°	3156.5	3190.6	3315.6	3308.0	3315.6	3190.6	3156.5	3004.9	2902.6	2883.7	2891.2
15°	3391.4	3402.8	3429.4	3433.1	3429.4	3402.8	3391.4	3330.8	3023.8	2891.2	2849.5
17.5°	3414.2	3418.0	3436.9	3436.9	3436.9	3418.0	3414.2	3387.7	3285.3	3107.2	2872.3
20°	3395.2	3402.8	3440.6	3448.3	3440.6	3402.8	3395.2	3361.1	3304.3	3239.9	3061.8
22.5°	3387.7	3402.8	3433.1	3429.4	3433.1	3402.8	3387.7	3334.6	3285.3	3239.9	3167.9
25°	3349.7	3349.7	3353.6	3357.3	3353.6	3349.7	3349.7	3308.0	3209.6	3198.2	3156.5
27.5°	3270.2	3277.7	3300.5	3296.7	3300.5	3277.7	3270.2	3255.0	3148.9	3137.6	3107.2
30°	3198.2	3190.6	3171.6	3156.5	3171.6	3190.6	3198.2	3175.4	3069.3	3039.0	3046.6
32.5°	3076.9	3058.0	3039.0	3027.7	3039.0	3058.0	3076.9	3069.3	2989.8	2948.1	2955.7
35°	2932.9	2936.7	2932.9	2921.5	2932.9	2936.7	2932.9	2940.5	2891.2	2853.4	2849.5
37.5°	2830.6	2838.2	2834.4	2819.2	2834.4	2838.2	2830.6	2823.1	2754.8	2743.4	2751.1
40°	2724.5	2728.3	2724.5	2713.1	2724.5	2728.3	2724.5	2709.4	2614.7	2618.4	2645.0
42.5°	2622.2	2618.4	2607.0	2599.5	2607.0	2618.4	2622.2	2599.5	2478.2	2466.9	2516.1
45°	2504.7	2508.5	2485.8	2474.4	2485.8	2508.5	2504.7	2489.6	2364.6	2334.2	2368.3
47.5°	2387.2	2387.2	2368.3	2356.9	2368.3	2387.2	2387.2	2368.3	2235.7	2205.4	2224.3
50°	2262.2	2258.5	2231.9	2228.1	2231.9	2258.5	2262.2	2250.8	2110.7	2084.1	2084.1
52.5°	2118.2	2118.2	2122.0	2129.6	2122.0	2118.2	2118.2	2122.0	1997.0	1970.4	1962.9
55°	1993.2	1997.0	2023.5	2031.0	2023.5	1997.0	1993.2	1993.2	1879.5	1853.0	1837.8
57.5°	1864.3	1864.3	1883.3	1883.3	1883.3	1864.3	1864.3	1856.7	1746.9	1724.1	1716.6
60°	1716.6	1724.1	1739.3	1735.5	1739.3	1724.1	1716.6	1708.9	1614.2	1599.1	1572.5
62.5°	1561.1	1568.8	1572.5	1565.0	1572.5	1568.8	1561.1	1538.5	1481.6	1470.2	1436.1
65°	1398.2	1405.8	1409.6	1402.1	1409.6	1405.8	1398.2	1386.9	1345.2	1326.3	1296.0
67.5°	1231.5	1227.7	1224.0	1239.1	1224.0	1227.7	1231.5	1216.4	1189.8	1174.6	1133.0
70°	1061.0	1061.0	1057.2	1064.8	1057.2	1061.0	1061.0	1049.6	1034.5	1023.1	985.3
72.5°	879.1	875.3	890.5	879.1	890.5	875.3	879.1	875.3	867.8	856.4	818.5
75°	701.0	708.6	701.0	712.4	701.0	708.6	701.0	704.8	701.0	693.5	666.9
77.5°	534.3	541.9	534.3	534.3	534.3	541.9	534.3	538.0	538.0	538.0	515.4
80°	379.0	375.1	375.1	371.3	375.1	375.1	379.0	379.0	382.7	375.1	367.6
82.5°	242.5	238.7	238.7	246.3	238.7	238.7	242.5	246.3	238.7	238.7	238.7
85°	132.6	136.4	128.9	128.9	128.9	136.4	132.6	125.0	132.6	132.6	128.9
87.5°	49.2	45.5	45.5	45.5	45.5	45.5	49.2	53.1	53.1	53.1	56.9
90°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	60.4	80.6	90.6	77.9
92.5°	226.7	217.7	181.5	145.5	181.5	217.7	226.7	321.3	447.5	510.6	448.3
95°	769.4	742.0	632.9	523.7	632.9	742.0	769.4	1010.4	1331.7	1492.3	1260.4
97.5°	1776.2	1724.3	1516.5	1308.7	1516.5	1724.3	1776.2	1928.5	2131.6	2233.1	1846.3
100°	2494.4	2432.5	2184.9	1937.3	2184.9	2432.5	2494.4	2483.3	2468.5	2461.0	2031.8
102.5°	3107.6	3054.5	2842.5	2630.4	2842.5	3054.5	3107.6	2913.5	2654.8	2525.5	2090.2
105°	3823.3	3794.8	3680.8	3566.8	3680.8	3794.8	3823.3	3388.4	2808.3	2518.3	2096.8
107.5°	4195.5	4202.4	4230.0	4257.5	4230.0	4202.4	4195.5	3588.7	2779.7	2375.1	2003.4
110°	4290.9	4320.6	4439.4	4558.2	4439.4	4320.6	4290.9	3612.5	2708.1	2255.8	1920.7



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4230.1	4275.7	4458.1	4640.5	4458.1	4275.7	4230.1	3535.9	2610.2	2147.3	1848.5
115°	4023.7	4086.9	4339.9	4592.7	4339.9	4086.9	4023.7	3354.9	2463.1	2017.3	1765.6
117.5°	3738.6	3808.7	4089.2	4369.7	4089.2	3808.7	3738.6	3135.0	2330.2	1927.8	1713.8
120°	3546.6	3614.7	3887.2	4159.7	3887.2	3614.7	3546.6	2995.1	2259.7	1892.0	1696.4
122.5°	3354.5	3421.7	3690.4	3959.3	3690.4	3421.7	3354.5	2857.9	2195.6	1864.6	1687.2
125°	3100.4	3162.3	3409.9	3657.5	3409.9	3162.3	3100.4	2678.5	2116.0	1834.8	1679.7
127.5°	2896.4	2948.6	3157.6	3366.5	3157.6	2948.6	2896.4	2534.2	2051.2	1809.7	1675.3
130°	2767.6	2815.9	3008.8	3201.8	3008.8	2815.9	2767.6	2445.2	2015.2	1800.1	1678.0
132.5°	2657.9	2701.1	2873.9	3046.8	2873.9	2701.1	2657.9	2369.2	1984.2	1791.7	1679.6
135°	2502.7	2540.0	2688.9	2838.0	2688.9	2540.0	2502.7	2260.9	1938.7	1777.5	1678.1
137.5°	2388.3	2418.8	2540.7	2662.7	2540.7	2418.8	2388.3	2183.9	1911.3	1775.1	1688.4
140°	2296.4	2324.9	2438.9	2552.9	2438.9	2324.9	2296.4	2119.8	1884.4	1766.7	1690.1
142.5°	2232.0	2256.4	2354.5	2452.6	2354.5	2256.4	2232.0	2076.9	1870.1	1766.7	1696.1
145°	2135.3	2153.9	2228.1	2302.3	2228.1	2153.9	2135.3	2008.5	1839.3	1754.8	1696.2
147.5°	2054.3	2069.6	2131.1	2192.6	2131.1	2069.6	2054.3	1954.4	1821.4	1754.8	1707.9
150°	2007.7	2020.1	2070.0	2119.8	2070.0	2020.1	2007.7	1923.4	1811.0	1754.8	1714.0
152.5°	1970.7	1980.1	2017.7	2055.4	2017.7	1980.1	1970.7	1898.7	1802.8	1754.8	1717.9
155°	1926.5	1932.7	1957.7	1982.6	1957.7	1932.7	1926.5	1869.3	1793.0	1754.8	1726.7
157.5°	1888.4	1892.8	1910.3	1927.8	1910.3	1892.8	1888.4	1843.8	1784.5	1754.8	1735.5
160°	1869.3	1871.8	1881.9	1892.0	1881.9	1871.8	1869.3	1831.1	1780.3	1754.8	1739.4
162.5°	1851.4	1853.8	1863.3	1872.9	1863.3	1853.8	1851.4	1819.2	1776.2	1754.8	1743.6
165°	1824.0	1826.4	1836.6	1846.6	1836.6	1826.4	1824.0	1800.9	1770.2	1754.8	1749.8
167.5°	1812.1	1813.1	1817.4	1821.6	1817.4	1813.1	1812.1	1797.0	1776.8	1766.7	1762.5
170°	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1812.1	1797.0	1776.8	1766.7	1766.4
172.5°	1802.5	1801.6	1797.9	1794.1	1797.9	1801.6	1802.5	1790.6	1774.6	1766.7	1766.7
175°	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1789.3	1781.8	1771.8	1766.7	1769.1
177.5°	1787.0	1785.9	1781.7	1777.5	1781.7	1785.9	1787.0	1781.0	1773.1	1769.1	1771.0
180°	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5	1777.5



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	3956.0	3975.0	3986.3	4001.5	4039.4
5°	3804.5	3876.5	3899.2	3956.0	4024.3
7.5°	3471.0	3690.8	3751.4	3887.9	3993.9
10°	3148.9	3368.7	3474.8	3796.8	3956.0
12.5°	2986.0	3114.8	3186.8	3637.8	3903.0
15°	2883.7	2974.6	3027.7	3425.5	3842.4
17.5°	2804.0	2868.5	2906.4	3217.1	3759.0
20°	2754.8	2785.1	2819.2	3065.5	3664.3
22.5°	2720.7	2701.8	2728.3	2959.5	3535.4
25°	2698.0	2626.0	2656.3	2876.1	3383.9
27.5°	2717.0	2557.8	2569.2	2800.3	3224.7
30°	2720.7	2474.4	2478.2	2720.7	3046.6
32.5°	2694.2	2387.2	2391.1	2622.2	2845.7
35°	2629.8	2284.9	2281.2	2508.5	2573.0
37.5°	2542.6	2175.1	2175.1	2383.5	2273.6
40°	2436.6	2065.2	2076.5	2220.5	2008.4
42.5°	2307.7	1947.7	1962.9	2004.5	1811.3
45°	2167.4	1834.0	1845.4	1693.8	1659.7
47.5°	2012.1	1716.6	1720.3	1405.8	1610.5
50°	1826.4	1595.3	1580.2	1205.0	1606.7
52.5°	1663.5	1462.7	1417.2	1091.3	1458.9
55°	1504.4	1322.4	1224.0	1004.2	1352.7
57.5°	1364.1	1140.6	1045.9	901.9	1330.1
60°	1235.3	962.5	890.5	792.0	1220.1
62.5°	1129.2	829.9	814.7	716.1	1106.5
65°	1015.6	738.9	735.2	651.8	939.7
67.5°	905.6	678.3	674.5	591.1	716.1
70°	788.2	613.8	606.3	526.8	530.5
72.5°	666.9	541.9	534.3	473.7	439.6
75°	545.7	458.5	454.7	413.0	356.2
77.5°	428.2	363.8	371.3	333.5	261.5
80°	307.0	265.3	272.8	238.7	197.0
82.5°	204.6	174.3	181.9	151.5	132.6
85°	113.7	98.6	102.3	79.5	60.6
87.5°	53.1	45.5	45.5	30.3	18.9
90°	52.5	33.4	31.0	21.5	12.0
92.5°	323.7	230.2	209.9	128.8	47.7
95°	796.4	448.6	411.5	263.0	114.5
97.5°	1072.8	492.7	459.9	329.0	198.0
100°	1173.4	529.6	499.9	381.2	262.4
102.5°	1219.6	566.6	538.9	428.1	317.3
105°	1253.8	621.5	598.1	504.2	410.4
107.5°	1260.1	702.7	680.8	593.3	505.8
110°	1250.5	748.0	728.2	649.2	570.3



TEST NUMBER: P935209

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1251.0	802.8	784.0	708.8	633.4
115°	1262.5	885.2	867.8	798.4	728.9
117.5°	1286.0	965.1	949.3	886.2	823.1
120°	1305.1	1011.6	996.8	937.4	878.0
122.5°	1332.6	1066.5	1051.5	991.7	931.7
125°	1369.5	1136.9	1123.2	1068.6	1014.0
127.5°	1406.5	1204.8	1191.1	1135.9	1080.8
130°	1433.5	1250.2	1235.3	1176.0	1116.6
132.5°	1455.3	1287.2	1272.3	1213.0	1153.6
135°	1479.2	1330.1	1316.6	1262.5	1208.5
137.5°	1515.0	1385.0	1371.6	1318.0	1264.5
140°	1536.9	1422.0	1409.6	1360.4	1311.1
142.5°	1555.1	1449.4	1438.0	1392.4	1346.8
145°	1579.0	1491.2	1481.2	1441.5	1401.7
147.5°	1614.0	1543.7	1534.0	1495.3	1456.6
150°	1632.4	1571.1	1562.3	1527.3	1492.3
152.5°	1644.2	1589.0	1582.4	1555.8	1529.3
155°	1670.5	1628.4	1623.5	1603.8	1584.2
157.5°	1696.8	1667.7	1663.0	1643.8	1624.7
160°	1708.7	1685.6	1681.9	1667.1	1652.2
162.5°	1721.4	1704.6	1701.9	1690.7	1679.6
165°	1739.6	1732.1	1729.6	1719.5	1709.4
167.5°	1754.0	1747.7	1746.4	1741.6	1736.9
170°	1765.9	1765.5	1764.4	1759.6	1754.8
172.5°	1766.7	1766.7	1766.4	1765.3	1764.3
175°	1773.9	1777.5	1777.5	1777.5	1777.5
177.5°	1774.7	1777.5	1777.5	1777.5	1777.5
180°	1777.5	1777.5	1777.5	1777.5	1777.5



TEST NUMBER: P935209
 CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-12

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	13.31	14.15	14.29	15.14	16.45	16.16	17.00	17.14	17.99	19.30
	3H	13.79	14.54	14.78	15.54	16.87	17.51	18.27	18.50	19.27	20.60
	4H	13.98	14.69	14.98	15.69	17.03	17.96	18.67	18.97	19.68	21.02
	6H	14.10	14.75	15.11	15.76	17.11	18.25	18.91	19.26	19.92	21.27
	8H	14.10	14.72	15.12	15.75	17.09	18.33	18.95	19.35	19.98	21.32
	12H	14.07	14.66	15.09	15.68	17.05	18.37	18.96	19.39	19.98	21.35
4H	2H	14.35	15.06	15.36	16.06	17.40	16.57	17.28	17.58	18.29	19.62
	3H	15.37	15.97	16.39	17.00	18.35	18.08	18.67	19.10	19.71	21.06
	4H	15.65	16.19	16.67	17.22	18.59	18.61	19.15	19.64	20.18	21.55
	6H	15.77	16.24	16.81	17.29	18.66	18.98	19.45	20.02	20.50	21.87
	8H	15.78	16.21	16.81	17.25	18.64	19.09	19.53	20.13	20.57	21.95
	12H	15.74	16.14	16.80	17.19	18.58	19.15	19.54	20.21	20.60	21.99
8H	4H	16.10	16.54	17.14	17.58	18.97	18.73	19.17	19.77	20.21	21.60
	6H	16.36	16.72	17.43	17.81	19.19	19.17	19.53	20.24	20.62	22.00
	8H	16.41	16.72	17.47	17.79	19.19	19.33	19.65	20.40	20.71	22.12
	12H	16.39	16.67	17.46	17.73	19.17	19.43	19.71	20.50	20.77	22.22
12H	4H	16.11	16.50	17.16	17.56	18.95	18.70	19.09	19.75	20.15	21.54
	6H	16.43	16.74	17.49	17.81	19.21	19.17	19.49	20.24	20.56	21.96
	8H	16.49	16.77	17.56	17.83	19.28	19.33	19.61	20.41	20.68	22.12