

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: P934203

Luminaire Tested: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934203
REPORT IS A COMBINATION OF REPORTS P933687 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

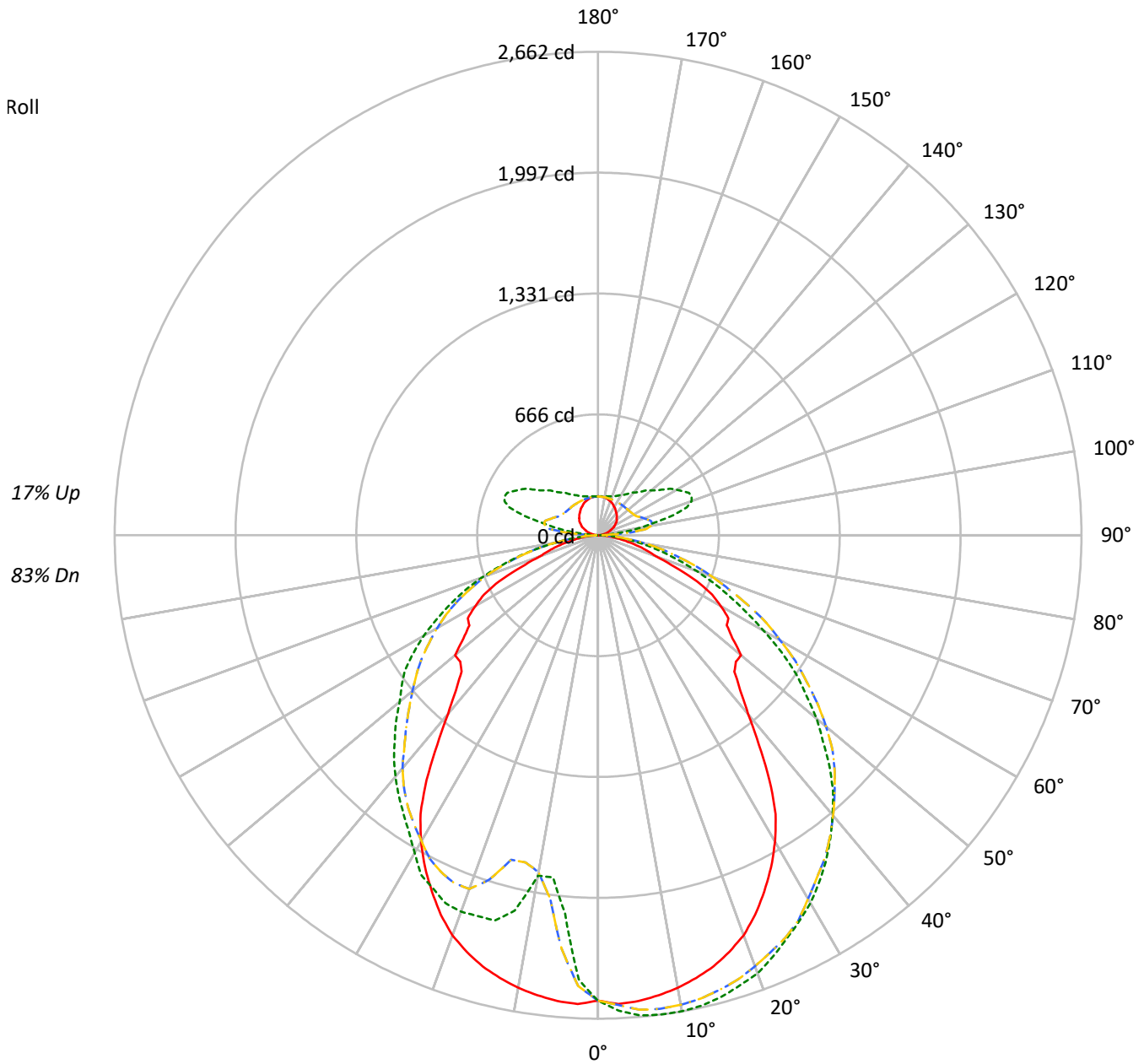
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8029.6 lumens
Efficiency: N/A
Efficacy: 107.9 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): 74.4
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				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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15850	15850	15850	15850
5°	15962	15999	15962	12580
10°	15850	15760	15850	11267
15°	15671	15419	15671	12874
20°	15338	15014	15338	12902
25°	14660	14424	14660	12628
30°	13788	13934	13788	12029
35°	12286	13315	12286	11368
40°	10231	12585	10231	10870
45°	9136	11732	9136	10297
50°	9699	10714	9699	9721
55°	9115	9616	9115	9389
60°	9386	8167	9386	8600
65°	8497	6751	8497	7547
70°	5868	5380	5868	6326
75°	5128	3978	5128	4763
80°	4104	2629	4104	2863
85°	2313	1392	2313	1184

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 14011 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	2.9
10°-20°	656.6	8.2
20°-30°	1015.1	12.6
30°-40°	1211.8	15.1
40°-50°	1218.9	15.2
50°-60°	1060.5	13.2
60°-70°	751.9	9.4
70°-80°	397.8	5.0
80°-90°	99.9	1.2
90°-100°	104.2	1.3
100°-110°	274.0	3.4
110°-120°	284.1	3.5
120°-130°	227.9	2.8
130°-140°	178.8	2.2
140°-150°	137.2	1.7
150°-160°	98.8	1.2
160°-170°	60.5	0.8
170°-180°	20.4	0.3
0°-30°	1903.0	23.7
0°-40°	3114.7	38.8
0°-60°	5394.1	67.2
0°-90°	6643.8	82.7
90°-120°	662.2	8.2
90°-150°	1206.1	15.0
90°-180°	1386.0	17.3
0°-180°	8029.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2562	2562	2562	2562	2562	
5°	2574	2654	2574	2087	2574	244
15°	2458	2630	2458	2196	2458	692
25°	2164	2453	2164	2148	2164	994
35°	1646	2189	1646	1869	1646	1018
45°	1062	1803	1062	1583	1062	850
55°	865	1331	865	1299	865	795
65°	601	802	601	897	601	575
75°	228	381	228	456	228	240
85°	39	97	39	82	39	52
90°	1	5	1	5	1	3
95°	14	63	14	63	14	15
105°	49	429	49	429	49	52
115°	88	552	88	552	88	87
125°	122	440	122	440	122	108
135°	145	341	145	341	145	112
145°	169	277	169	277	169	106
155°	190	238	190	238	190	88
165°	206	222	206	222	206	58
175°	214	215	214	215	214	20
180°	214	214	214	214	214	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2583.8	2583.8	2598.5	2603.2	2603.2	2596.0	2588.7	2596.0	2617.8	2625.1	2622.6
5°	2574.2	2593.6	2620.2	2625.1	2630.0	2627.5	2622.6	2627.5	2651.7	2656.6	2659.0
7.5°	2554.8	2591.1	2625.1	2632.4	2639.6	2632.4	2630.0	2634.7	2659.0	2663.9	2663.9
10°	2530.6	2581.5	2620.2	2625.1	2632.4	2625.1	2625.1	2634.7	2659.0	2663.9	2666.3
12.5°	2496.7	2566.9	2603.2	2608.1	2617.8	2615.4	2613.0	2622.6	2646.9	2651.7	2651.7
15°	2457.9	2540.2	2574.2	2579.1	2596.0	2591.1	2591.1	2600.8	2627.5	2634.7	2632.4
17.5°	2404.5	2506.3	2545.1	2552.3	2564.5	2562.1	2564.5	2574.2	2598.5	2603.2	2605.7
20°	2344.0	2460.3	2506.3	2513.6	2525.7	2525.7	2525.7	2537.8	2562.1	2571.7	2571.7
22.5°	2261.5	2411.8	2460.3	2465.1	2479.7	2479.7	2484.5	2501.4	2523.3	2525.7	2525.7
25°	2164.5	2358.5	2399.6	2414.2	2428.8	2436.0	2443.3	2453.0	2460.3	2457.9	2460.3
27.5°	2062.7	2290.6	2344.0	2353.6	2373.0	2380.2	2390.0	2392.4	2394.9	2402.1	2397.2
30°	1948.8	2196.0	2276.1	2285.7	2317.2	2322.1	2312.4	2317.2	2329.3	2334.2	2339.1
32.5°	1820.3	2055.4	2205.8	2227.5	2256.7	2242.1	2239.7	2246.9	2266.3	2266.3	2271.2
35°	1645.8	1946.4	2140.3	2159.7	2181.5	2164.5	2174.2	2176.6	2188.8	2196.0	2193.6
37.5°	1454.4	1851.8	2072.4	2087.0	2104.0	2082.1	2096.7	2104.0	2113.6	2108.8	2108.8
40°	1284.7	1704.0	1992.4	2002.2	2016.7	1999.7	2014.3	2019.2	2023.9	2019.2	2016.7
42.5°	1158.6	1541.6	1907.6	1919.7	1910.0	1922.1	1927.0	1936.7	1929.4	1919.7	1919.7
45°	1061.7	1498.0	1815.5	1830.1	1815.5	1834.9	1842.2	1842.2	1820.3	1815.5	1813.1
47.5°	1030.2	1410.7	1723.4	1723.4	1716.1	1740.4	1752.5	1735.5	1713.7	1706.4	1706.4
50°	1027.8	1313.8	1597.3	1587.7	1621.6	1650.7	1638.6	1621.6	1604.6	1577.9	1577.9
52.5°	933.2	1195.0	1435.0	1471.3	1524.7	1541.6	1522.2	1505.3	1476.1	1464.0	1454.4
55°	865.3	1071.3	1287.1	1359.8	1415.6	1437.4	1401.0	1384.1	1340.4	1333.2	1328.3
57.5°	850.8	892.0	1151.3	1243.5	1311.3	1308.9	1287.1	1255.5	1219.2	1212.0	1209.5
60°	780.5	644.7	1005.9	1115.0	1185.3	1178.0	1158.6	1129.6	1095.6	1090.8	1085.9
62.5°	707.8	467.9	841.1	964.7	1064.1	1061.7	1044.7	1001.0	976.9	964.7	955.0
65°	601.2	392.7	598.7	802.3	945.4	950.1	913.8	882.3	855.7	841.1	838.7
67.5°	458.1	319.9	404.8	669.0	831.4	826.6	780.5	765.9	732.0	724.7	710.2
70°	339.3	213.3	281.2	542.9	719.9	707.8	671.5	654.5	622.9	605.9	596.3
72.5°	281.2	172.1	206.0	421.7	605.9	591.4	559.9	540.5	513.9	499.4	489.6
75°	227.9	181.8	157.6	312.7	492.0	482.4	453.2	433.9	412.1	392.7	395.1
77.5°	167.2	169.7	126.1	230.3	390.2	375.7	358.7	334.5	324.8	305.4	305.4
80°	126.1	133.3	94.5	157.6	281.2	281.2	266.6	249.6	232.7	223.0	223.0
82.5°	84.8	84.8	70.3	99.4	191.5	184.2	174.5	169.7	160.0	155.1	155.1
85°	38.8	48.5	43.6	60.6	104.2	109.1	109.1	104.2	101.8	96.9	99.4
87.5°	12.1	21.8	26.6	33.9	53.3	55.8	58.2	58.2	58.2	60.6	60.6
90°	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.6	7.3	5.4	5.4
92.5°	5.7	15.5	25.2	27.7	39.0	54.0	61.4	53.8	38.6	27.2	26.2
95°	13.8	31.6	49.5	54.0	95.8	151.6	179.4	160.2	121.5	92.5	89.3
97.5°	23.8	39.5	55.3	59.2	129.0	222.0	268.5	256.3	232.0	213.6	207.4
100°	31.6	45.8	60.2	63.7	141.1	244.4	296.0	296.8	298.6	300.0	292.5
102.5°	38.2	51.6	64.8	68.2	146.7	251.4	303.7	319.3	350.4	373.8	367.4
105°	49.4	60.6	71.9	74.8	150.8	252.1	302.8	337.7	407.5	459.8	456.4
107.5°	60.8	71.3	81.8	84.5	151.6	240.9	285.6	334.3	431.7	504.6	505.5
110°	68.6	78.1	87.6	90.0	150.4	231.0	271.3	325.8	434.5	516.1	519.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	76.2	85.3	94.3	96.6	150.4	222.3	258.2	313.9	425.3	508.7	514.2
115°	87.7	96.1	104.4	106.5	151.8	212.3	242.6	296.2	403.5	483.9	491.5
117.5°	99.0	106.6	114.1	116.0	154.6	206.1	231.9	280.3	377.0	449.6	458.0
120°	105.6	112.8	119.9	121.7	157.0	204.1	227.6	271.8	360.2	426.6	434.8
122.5°	112.0	119.3	126.4	128.3	160.2	202.9	224.2	264.1	343.7	403.5	411.6
125°	122.0	128.5	135.1	136.8	164.7	202.1	220.7	254.5	322.2	372.9	380.4
127.5°	130.0	136.6	143.2	144.9	169.1	201.5	217.6	246.7	304.8	348.4	354.7
130°	134.3	141.4	148.5	150.3	172.4	201.8	216.5	242.4	294.0	332.8	338.6
132.5°	138.8	145.9	153.0	154.8	175.1	202.1	215.5	238.7	285.0	319.6	324.8
135°	145.4	151.8	158.3	160.0	177.9	201.9	213.8	233.2	272.0	301.0	305.5
137.5°	152.1	158.5	164.9	166.6	182.2	203.1	213.5	230.0	262.7	287.3	290.9
140°	157.7	163.6	169.5	171.0	184.9	203.3	212.5	226.6	255.0	276.2	279.6
142.5°	162.0	167.4	173.0	174.3	187.0	204.0	212.5	224.9	249.8	268.5	271.4
145°	168.6	173.3	178.1	179.3	189.9	204.0	211.1	221.2	241.5	256.8	259.0
147.5°	175.1	179.8	184.5	185.7	194.2	205.4	211.1	219.1	235.0	247.1	248.9
150°	179.4	183.6	187.9	189.0	196.3	206.2	211.1	217.8	231.3	241.4	243.0
152.5°	183.9	187.1	190.3	191.1	197.8	206.7	211.1	216.8	228.3	237.0	238.2
155°	190.5	192.9	195.3	195.9	200.9	207.7	211.1	215.6	224.8	231.7	232.4
157.5°	195.4	197.7	200.0	200.5	204.1	208.8	211.1	214.6	221.8	227.1	227.7
160°	198.7	200.5	202.3	202.7	205.5	209.2	211.1	214.1	220.2	224.8	225.1
162.5°	202.0	203.3	204.7	205.0	207.0	209.7	211.1	213.6	218.8	222.7	223.0
165°	205.6	206.8	208.0	208.3	209.2	210.5	211.1	212.9	216.6	219.4	219.6
167.5°	208.9	209.4	210.0	210.2	211.0	212.0	212.5	213.7	216.1	217.9	218.0
170°	211.1	211.6	212.2	212.3	212.4	212.5	212.5	213.7	216.1	217.9	217.9
172.5°	212.2	212.3	212.5	212.5	212.5	212.5	212.5	213.4	215.4	216.8	216.7
175°	213.8	213.8	213.8	213.8	213.3	212.8	212.5	213.1	214.3	215.3	215.3
177.5°	213.8	213.8	213.8	213.8	213.4	213.0	212.8	213.3	214.2	215.0	214.9
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2627.5	2620.2	2627.5	2622.6	2625.1	2617.8	2596.0	2588.7	2596.0	2603.2	2603.2
5°	2659.0	2654.1	2659.0	2659.0	2656.6	2651.7	2627.5	2622.6	2627.5	2630.0	2625.1
7.5°	2668.7	2661.5	2668.7	2663.9	2663.9	2659.0	2634.7	2630.0	2632.4	2639.6	2632.4
10°	2668.7	2661.5	2668.7	2666.3	2663.9	2659.0	2634.7	2625.1	2625.1	2632.4	2625.1
12.5°	2656.6	2651.7	2656.6	2651.7	2651.7	2646.9	2622.6	2613.0	2615.4	2617.8	2608.1
15°	2637.2	2630.0	2637.2	2632.4	2634.7	2627.5	2600.8	2591.1	2591.1	2596.0	2579.1
17.5°	2608.1	2598.5	2608.1	2605.7	2603.2	2598.5	2574.2	2564.5	2562.1	2564.5	2552.3
20°	2574.2	2566.9	2574.2	2571.7	2571.7	2562.1	2537.8	2525.7	2525.7	2525.7	2513.6
22.5°	2520.8	2513.6	2520.8	2525.7	2525.7	2523.3	2501.4	2484.5	2479.7	2479.7	2465.1
25°	2460.3	2453.0	2460.3	2460.3	2457.9	2460.3	2453.0	2443.3	2436.0	2428.8	2414.2
27.5°	2402.1	2397.2	2402.1	2397.2	2402.1	2394.9	2392.4	2390.0	2380.2	2373.0	2353.6
30°	2344.0	2339.1	2344.0	2339.1	2334.2	2329.3	2317.2	2312.4	2322.1	2317.2	2285.7
32.5°	2271.2	2266.3	2271.2	2271.2	2266.3	2266.3	2246.9	2239.7	2242.1	2256.7	2227.5
35°	2196.0	2188.8	2196.0	2193.6	2196.0	2188.8	2176.6	2174.2	2164.5	2181.5	2159.7
37.5°	2108.8	2101.5	2108.8	2108.8	2108.8	2113.6	2104.0	2096.7	2082.1	2104.0	2087.0
40°	2019.2	2009.4	2019.2	2016.7	2019.2	2023.9	2019.2	2014.3	1999.7	2016.7	2002.2
42.5°	1917.4	1914.9	1917.4	1919.7	1919.7	1929.4	1936.7	1927.0	1922.1	1910.0	1919.7
45°	1808.2	1803.4	1808.2	1813.1	1815.5	1820.3	1842.2	1842.2	1834.9	1815.5	1830.1
47.5°	1691.9	1679.7	1691.9	1706.4	1706.4	1713.7	1735.5	1752.5	1740.4	1716.1	1723.4
50°	1568.3	1570.7	1568.3	1577.9	1577.9	1604.6	1621.6	1638.6	1650.7	1621.6	1587.7
52.5°	1447.1	1444.6	1447.1	1454.4	1464.0	1476.1	1505.3	1522.2	1541.6	1524.7	1471.3
55°	1325.8	1330.7	1325.8	1328.3	1333.2	1340.4	1384.1	1401.0	1437.4	1415.6	1359.8
57.5°	1204.6	1197.4	1204.6	1209.5	1212.0	1219.2	1255.5	1287.1	1308.9	1311.3	1243.5
60°	1064.1	1054.4	1064.1	1085.9	1090.8	1095.6	1129.6	1158.6	1178.0	1185.3	1115.0
62.5°	940.5	923.5	940.5	955.0	964.7	976.9	1001.0	1044.7	1061.7	1064.1	964.7
65°	809.6	802.3	809.6	838.7	841.1	855.7	882.3	913.8	950.1	945.4	802.3
67.5°	690.8	690.8	690.8	710.2	724.7	732.0	765.9	780.5	826.6	831.4	669.0
70°	581.7	579.3	581.7	596.3	605.9	622.9	654.5	671.5	707.8	719.9	542.9
72.5°	477.5	475.1	477.5	489.6	499.4	513.9	540.5	559.9	591.4	605.9	421.7
75°	385.4	380.6	385.4	395.1	392.7	412.1	433.9	453.2	482.4	492.0	312.7
77.5°	295.8	295.8	295.8	305.4	305.4	324.8	334.5	358.7	375.7	390.2	230.3
80°	220.6	218.1	220.6	223.0	223.0	232.7	249.6	266.6	281.2	281.2	157.6
82.5°	155.1	150.3	155.1	155.1	155.1	160.0	169.7	174.5	184.2	191.5	99.4
85°	96.9	96.9	96.9	99.4	96.9	101.8	104.2	109.1	109.1	104.2	60.6
87.5°	63.0	60.6	63.0	60.6	60.6	58.2	58.2	58.2	55.8	53.3	33.9
90°	5.4	5.4	5.4	5.4	5.4	7.3	9.6	10.9	9.4	6.3	4.0
92.5°	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.4	54.0	39.0	27.7
95°	76.1	63.0	76.1	89.3	92.5	121.5	160.2	179.4	151.6	95.8	54.0
97.5°	182.4	157.4	182.4	207.4	213.6	232.0	256.3	268.5	222.0	129.0	59.2
100°	262.8	233.0	262.8	292.5	300.0	298.6	296.8	296.0	244.4	141.1	63.7
102.5°	341.9	316.4	341.9	367.4	373.8	350.4	319.3	303.7	251.4	146.7	68.2
105°	442.7	429.0	442.7	456.4	459.8	407.5	337.7	302.8	252.1	150.8	74.8
107.5°	508.7	512.1	508.7	505.5	504.6	431.7	334.3	285.6	240.9	151.6	84.5
110°	533.9	548.3	533.9	519.6	516.1	434.5	325.8	271.3	231.0	150.4	90.0



TEST NUMBER: P934203

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	536.1	558.1	536.1	514.2	508.7	425.3	313.9	258.2	222.3	150.4	96.6
115°	521.9	552.4	521.9	491.5	483.9	403.5	296.2	242.6	212.3	151.8	106.5
117.5°	491.8	525.5	491.8	458.0	449.6	377.0	280.3	231.9	206.1	154.6	116.0
120°	467.6	500.3	467.6	434.8	426.6	360.2	271.8	227.6	204.1	157.0	121.7
122.5°	443.9	476.2	443.9	411.6	403.5	343.7	264.1	224.2	202.9	160.2	128.3
125°	410.1	439.9	410.1	380.4	372.9	322.2	254.5	220.7	202.1	164.7	136.8
127.5°	379.8	404.9	379.8	354.7	348.4	304.8	246.7	217.6	201.5	169.1	144.9
130°	361.8	385.1	361.8	338.6	332.8	294.0	242.4	216.5	201.8	172.4	150.3
132.5°	345.6	366.4	345.6	324.8	319.6	285.0	238.7	215.5	202.1	175.1	154.8
135°	323.4	341.3	323.4	305.5	301.0	272.0	233.2	213.8	201.9	177.9	160.0
137.5°	305.6	320.2	305.6	290.9	287.3	262.7	230.0	213.5	203.1	182.2	166.6
140°	293.3	307.0	293.3	279.6	276.2	255.0	226.6	212.5	203.3	184.9	171.0
142.5°	283.2	295.0	283.2	271.4	268.5	249.8	224.9	212.5	204.0	187.0	174.3
145°	268.0	277.0	268.0	259.0	256.8	241.5	221.2	211.1	204.0	189.9	179.3
147.5°	256.3	263.7	256.3	248.9	247.1	235.0	219.1	211.1	205.4	194.2	185.7
150°	249.0	255.0	249.0	243.0	241.4	231.3	217.8	211.1	206.2	196.3	189.0
152.5°	242.7	247.2	242.7	238.2	237.0	228.3	216.8	211.1	206.7	197.8	191.1
155°	235.4	238.5	235.4	232.4	231.7	224.8	215.6	211.1	207.7	200.9	195.9
157.5°	229.8	231.9	229.8	227.7	227.1	221.8	214.6	211.1	208.8	204.1	200.5
160°	226.3	227.6	226.3	225.1	224.8	220.2	214.1	211.1	209.2	205.5	202.7
162.5°	224.1	225.3	224.1	223.0	222.7	218.8	213.6	211.1	209.7	207.0	205.0
165°	220.9	222.1	220.9	219.6	219.4	216.6	212.9	211.1	210.5	209.2	208.3
167.5°	218.6	219.1	218.6	218.0	217.9	216.1	213.7	212.5	212.0	211.0	210.2
170°	217.9	217.9	217.9	217.9	217.9	216.1	213.7	212.5	212.5	212.4	212.3
172.5°	216.2	215.8	216.2	216.7	216.8	215.4	213.4	212.5	212.5	212.5	212.5
175°	215.3	215.3	215.3	215.3	215.3	214.3	213.1	212.5	212.8	213.3	213.8
177.5°	214.3	213.8	214.3	214.9	215.0	214.2	213.3	212.8	213.0	213.4	213.8
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P934203

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2598.5	2583.8	2583.8	2559.7	2549.9	2542.7	2530.6	2494.2	2484.5	2474.8	2489.3
5°	2620.2	2593.6	2574.2	2530.6	2494.2	2479.7	2433.6	2346.3	2288.2	2244.5	2220.3
7.5°	2625.1	2591.1	2554.8	2486.9	2399.6	2360.9	2220.3	2060.3	2016.7	1977.9	1953.6
10°	2620.2	2581.5	2530.6	2428.8	2222.8	2154.9	2014.3	1910.0	1883.4	1876.1	1883.4
12.5°	2603.2	2566.9	2496.7	2327.0	2038.5	1992.4	1910.0	1849.5	1844.6	1856.7	1922.1
15°	2574.2	2540.2	2457.9	2191.2	1936.7	1902.7	1844.6	1822.8	1849.5	1934.3	2130.6
17.5°	2545.1	2506.3	2404.5	2057.9	1859.1	1834.9	1793.7	1837.3	1987.6	2101.5	2167.0
20°	2506.3	2460.3	2344.0	1960.9	1803.4	1781.6	1762.2	1958.5	2072.4	2113.6	2150.0
22.5°	2460.3	2411.8	2261.5	1893.1	1745.2	1728.3	1740.4	2026.4	2072.4	2101.5	2133.0
25°	2399.6	2358.5	2164.5	1839.7	1699.1	1679.7	1725.8	2019.2	2045.8	2053.1	2116.1
27.5°	2344.0	2290.6	2062.7	1791.3	1643.4	1636.1	1737.9	1987.6	2007.0	2014.3	2082.1
30°	2276.1	2196.0	1948.8	1740.4	1585.2	1582.8	1740.4	1948.8	1944.0	1963.4	2031.2
32.5°	2205.8	2055.4	1820.3	1677.4	1529.5	1527.0	1723.4	1890.6	1885.8	1912.5	1963.4
35°	2140.3	1946.4	1645.8	1604.6	1459.1	1461.6	1682.2	1822.8	1825.2	1849.5	1881.0
37.5°	2072.4	1851.8	1454.4	1524.7	1391.3	1391.3	1626.5	1759.8	1754.9	1762.2	1805.8
40°	1992.4	1704.0	1284.7	1420.4	1328.3	1321.1	1558.6	1691.9	1674.9	1672.5	1733.1
42.5°	1907.6	1541.6	1158.6	1282.3	1255.5	1245.9	1476.1	1609.5	1577.9	1585.2	1662.8
45°	1815.5	1498.0	1061.7	1083.4	1180.5	1173.1	1386.5	1514.9	1493.1	1512.5	1592.5
47.5°	1723.4	1410.7	1030.2	899.2	1100.4	1098.1	1287.1	1422.9	1410.7	1430.1	1514.9
50°	1597.3	1313.8	1027.8	770.8	1010.8	1020.4	1168.3	1333.2	1333.2	1350.1	1439.8
52.5°	1435.0	1195.0	933.2	698.1	906.6	935.6	1064.1	1255.5	1260.4	1277.4	1357.3
55°	1287.1	1071.3	865.3	642.3	782.9	845.9	962.3	1175.6	1185.3	1202.2	1274.9
57.5°	1151.3	892.0	850.8	576.9	669.0	729.6	872.6	1098.1	1102.8	1117.4	1187.7
60°	1005.9	644.7	780.5	506.6	569.7	615.7	790.2	1005.9	1022.9	1032.5	1093.2
62.5°	841.1	467.9	707.8	458.1	521.1	530.8	722.4	918.6	940.5	947.7	984.1
65°	598.7	392.7	601.2	417.0	470.2	472.6	649.6	828.9	848.3	860.5	887.2
67.5°	404.8	319.9	458.1	378.1	431.5	433.9	579.3	724.7	751.4	761.1	778.0
70°	281.2	213.3	339.3	336.9	387.8	392.7	504.1	630.2	654.5	661.7	671.5
72.5°	206.0	172.1	281.2	303.0	341.8	346.7	426.6	523.5	547.8	555.0	559.9
75°	157.6	181.8	227.9	264.2	290.9	293.3	349.1	426.6	443.6	448.5	450.9
77.5°	126.1	169.7	167.2	213.3	237.5	232.7	273.9	329.7	344.2	344.2	344.2
80°	94.5	133.3	126.1	152.7	174.5	169.7	196.3	235.1	240.0	244.8	242.4
82.5°	70.3	84.8	84.8	96.9	116.3	111.5	130.9	152.7	152.7	152.7	157.6
85°	43.6	48.5	38.8	50.9	65.4	63.0	72.7	82.4	84.8	84.8	80.0
87.5°	26.6	21.8	12.1	19.4	29.1	29.1	33.9	36.4	33.9	33.9	33.9
90°	3.7	2.6	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.6	7.3
92.5°	25.2	15.5	5.7	15.5	25.2	27.7	39.0	54.0	61.4	53.8	38.6
95°	49.5	31.6	13.8	31.6	49.5	54.0	95.8	151.6	179.4	160.2	121.5
97.5°	55.3	39.5	23.8	39.5	55.3	59.2	129.0	222.0	268.5	256.3	232.0
100°	60.2	45.8	31.6	45.8	60.2	63.7	141.1	244.4	296.0	296.8	298.6
102.5°	64.8	51.6	38.2	51.6	64.8	68.2	146.7	251.4	303.7	319.3	350.4
105°	71.9	60.6	49.4	60.6	71.9	74.8	150.8	252.1	302.8	337.7	407.5
107.5°	81.8	71.3	60.8	71.3	81.8	84.5	151.6	240.9	285.6	334.3	431.7
110°	87.6	78.1	68.6	78.1	87.6	90.0	150.4	231.0	271.3	325.8	434.5



TEST NUMBER: P934203

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	94.3	85.3	76.2	85.3	94.3	96.6	150.4	222.3	258.2	313.9	425.3
115°	104.4	96.1	87.7	96.1	104.4	106.5	151.8	212.3	242.6	296.2	403.5
117.5°	114.1	106.6	99.0	106.6	114.1	116.0	154.6	206.1	231.9	280.3	377.0
120°	119.9	112.8	105.6	112.8	119.9	121.7	157.0	204.1	227.6	271.8	360.2
122.5°	126.4	119.3	112.0	119.3	126.4	128.3	160.2	202.9	224.2	264.1	343.7
125°	135.1	128.5	122.0	128.5	135.1	136.8	164.7	202.1	220.7	254.5	322.2
127.5°	143.2	136.6	130.0	136.6	143.2	144.9	169.1	201.5	217.6	246.7	304.8
130°	148.5	141.4	134.3	141.4	148.5	150.3	172.4	201.8	216.5	242.4	294.0
132.5°	153.0	145.9	138.8	145.9	153.0	154.8	175.1	202.1	215.5	238.7	285.0
135°	158.3	151.8	145.4	151.8	158.3	160.0	177.9	201.9	213.8	233.2	272.0
137.5°	164.9	158.5	152.1	158.5	164.9	166.6	182.2	203.1	213.5	230.0	262.7
140°	169.5	163.6	157.7	163.6	169.5	171.0	184.9	203.3	212.5	226.6	255.0
142.5°	173.0	167.4	162.0	167.4	173.0	174.3	187.0	204.0	212.5	224.9	249.8
145°	178.1	173.3	168.6	173.3	178.1	179.3	189.9	204.0	211.1	221.2	241.5
147.5°	184.5	179.8	175.1	179.8	184.5	185.7	194.2	205.4	211.1	219.1	235.0
150°	187.9	183.6	179.4	183.6	187.9	189.0	196.3	206.2	211.1	217.8	231.3
152.5°	190.3	187.1	183.9	187.1	190.3	191.1	197.8	206.7	211.1	216.8	228.3
155°	195.3	192.9	190.5	192.9	195.3	195.9	200.9	207.7	211.1	215.6	224.8
157.5°	200.0	197.7	195.4	197.7	200.0	200.5	204.1	208.8	211.1	214.6	221.8
160°	202.3	200.5	198.7	200.5	202.3	202.7	205.5	209.2	211.1	214.1	220.2
162.5°	204.7	203.3	202.0	203.3	204.7	205.0	207.0	209.7	211.1	213.6	218.8
165°	208.0	206.8	205.6	206.8	208.0	208.3	209.2	210.5	211.1	212.9	216.6
167.5°	210.0	209.4	208.9	209.4	210.0	210.2	211.0	212.0	212.5	213.7	216.1
170°	212.2	211.6	211.1	211.6	212.2	212.3	212.4	212.5	212.5	213.7	216.1
172.5°	212.5	212.3	212.2	212.3	212.5	212.5	212.5	212.5	212.5	213.4	215.4
175°	213.8	213.8	213.8	213.8	213.8	213.8	213.3	212.8	212.5	213.1	214.3
177.5°	213.8	213.8	213.8	213.8	213.8	213.8	213.4	213.0	212.8	213.3	214.2
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P934203

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2472.4	2465.1	2474.8	2448.1	2474.8	2465.1	2472.4	2489.3	2474.8	2484.5	2494.2
5°	2169.4	2157.2	2118.5	2087.0	2118.5	2157.2	2169.4	2220.3	2244.5	2288.2	2346.3
7.5°	1939.1	1929.4	1919.7	1900.4	1919.7	1929.4	1939.1	1953.6	1977.9	2016.7	2060.3
10°	1888.2	1890.6	1905.2	1902.7	1905.2	1890.6	1888.2	1883.4	1876.1	1883.4	1910.0
12.5°	2019.2	2040.9	2121.0	2116.1	2121.0	2040.9	2019.2	1922.1	1856.7	1844.6	1849.5
15°	2169.4	2176.6	2193.6	2196.0	2193.6	2176.6	2169.4	2130.6	1934.3	1849.5	1822.8
17.5°	2183.9	2186.4	2198.5	2198.5	2198.5	2186.4	2183.9	2167.0	2101.5	1987.6	1837.3
20°	2171.9	2176.6	2200.9	2205.8	2200.9	2176.6	2171.9	2150.0	2113.6	2072.4	1958.5
22.5°	2167.0	2176.6	2196.0	2193.6	2196.0	2176.6	2167.0	2133.0	2101.5	2072.4	2026.4
25°	2142.7	2142.7	2145.1	2147.6	2145.1	2142.7	2142.7	2116.1	2053.1	2045.8	2019.2
27.5°	2091.8	2096.7	2111.2	2108.8	2111.2	2096.7	2091.8	2082.1	2014.3	2007.0	1987.6
30°	2045.8	2040.9	2028.8	2019.2	2028.8	2040.9	2045.8	2031.2	1963.4	1944.0	1948.8
32.5°	1968.3	1956.1	1944.0	1936.7	1944.0	1956.1	1968.3	1963.4	1912.5	1885.8	1890.6
35°	1876.1	1878.5	1876.1	1868.8	1876.1	1878.5	1876.1	1881.0	1849.5	1825.2	1822.8
37.5°	1810.7	1815.5	1813.1	1803.4	1813.1	1815.5	1810.7	1805.8	1762.2	1754.9	1759.8
40°	1742.8	1745.2	1742.8	1735.5	1742.8	1745.2	1742.8	1733.1	1672.5	1674.9	1691.9
42.5°	1677.4	1674.9	1667.6	1662.8	1667.6	1674.9	1677.4	1662.8	1585.2	1577.9	1609.5
45°	1602.2	1604.6	1590.1	1582.8	1590.1	1604.6	1602.2	1592.5	1512.5	1493.1	1514.9
47.5°	1527.0	1527.0	1514.9	1507.7	1514.9	1527.0	1527.0	1514.9	1430.1	1410.7	1422.9
50°	1447.1	1444.6	1427.7	1425.2	1427.7	1444.6	1447.1	1439.8	1350.1	1333.2	1333.2
52.5°	1355.0	1355.0	1357.3	1362.2	1357.3	1355.0	1355.0	1357.3	1277.4	1260.4	1255.5
55°	1274.9	1277.4	1294.4	1299.2	1294.4	1277.4	1274.9	1274.9	1202.2	1185.3	1175.6
57.5°	1192.6	1192.6	1204.6	1204.6	1204.6	1192.6	1192.6	1187.7	1117.4	1102.8	1098.1
60°	1098.1	1102.8	1112.6	1110.2	1112.6	1102.8	1098.1	1093.2	1032.5	1022.9	1005.9
62.5°	998.6	1003.5	1005.9	1001.0	1005.9	1003.5	998.6	984.1	947.7	940.5	918.6
65°	894.5	899.2	901.7	896.8	901.7	899.2	894.5	887.2	860.5	848.3	828.9
67.5°	787.8	785.3	782.9	792.6	782.9	785.3	787.8	778.0	761.1	751.4	724.7
70°	678.7	678.7	676.2	681.1	676.2	678.7	678.7	671.5	661.7	654.5	630.2
72.5°	562.3	559.9	569.7	562.3	569.7	559.9	562.3	559.9	555.0	547.8	523.5
75°	448.5	453.2	448.5	455.7	448.5	453.2	448.5	450.9	448.5	443.6	426.6
77.5°	341.8	346.7	341.8	341.8	341.8	346.7	341.8	344.2	344.2	344.2	329.7
80°	242.4	240.0	240.0	237.5	240.0	240.0	242.4	242.4	244.8	240.0	235.1
82.5°	155.1	152.7	152.7	157.6	152.7	152.7	155.1	157.6	152.7	152.7	152.7
85°	84.8	87.3	82.4	82.4	82.4	87.3	84.8	80.0	84.8	84.8	82.4
87.5°	31.5	29.1	29.1	29.1	29.1	29.1	31.5	33.9	33.9	33.9	36.4
90°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.3	9.6	10.9	9.4
92.5°	27.2	26.2	21.8	17.5	21.8	26.2	27.2	38.6	53.8	61.4	54.0
95°	92.5	89.3	76.1	63.0	76.1	89.3	92.5	121.5	160.2	179.4	151.6
97.5°	213.6	207.4	182.4	157.4	182.4	207.4	213.6	232.0	256.3	268.5	222.0
100°	300.0	292.5	262.8	233.0	262.8	292.5	300.0	298.6	296.8	296.0	244.4
102.5°	373.8	367.4	341.9	316.4	341.9	367.4	373.8	350.4	319.3	303.7	251.4
105°	459.8	456.4	442.7	429.0	442.7	456.4	459.8	407.5	337.7	302.8	252.1
107.5°	504.6	505.5	508.7	512.1	508.7	505.5	504.6	431.7	334.3	285.6	240.9
110°	516.1	519.6	533.9	548.3	533.9	519.6	516.1	434.5	325.8	271.3	231.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	508.7	514.2	536.1	558.1	536.1	514.2	508.7	425.3	313.9	258.2	222.3
115°	483.9	491.5	521.9	552.4	521.9	491.5	483.9	403.5	296.2	242.6	212.3
117.5°	449.6	458.0	491.8	525.5	491.8	458.0	449.6	377.0	280.3	231.9	206.1
120°	426.6	434.8	467.6	500.3	467.6	434.8	426.6	360.2	271.8	227.6	204.1
122.5°	403.5	411.6	443.9	476.2	443.9	411.6	403.5	343.7	264.1	224.2	202.9
125°	372.9	380.4	410.1	439.9	410.1	380.4	372.9	322.2	254.5	220.7	202.1
127.5°	348.4	354.7	379.8	404.9	379.8	354.7	348.4	304.8	246.7	217.6	201.5
130°	332.8	338.6	361.8	385.1	361.8	338.6	332.8	294.0	242.4	216.5	201.8
132.5°	319.6	324.8	345.6	366.4	345.6	324.8	319.6	285.0	238.7	215.5	202.1
135°	301.0	305.5	323.4	341.3	323.4	305.5	301.0	272.0	233.2	213.8	201.9
137.5°	287.3	290.9	305.6	320.2	305.6	290.9	287.3	262.7	230.0	213.5	203.1
140°	276.2	279.6	293.3	307.0	293.3	279.6	276.2	255.0	226.6	212.5	203.3
142.5°	268.5	271.4	283.2	295.0	283.2	271.4	268.5	249.8	224.9	212.5	204.0
145°	256.8	259.0	268.0	277.0	268.0	259.0	256.8	241.5	221.2	211.1	204.0
147.5°	247.1	248.9	256.3	263.7	256.3	248.9	247.1	235.0	219.1	211.1	205.4
150°	241.4	243.0	249.0	255.0	249.0	243.0	241.4	231.3	217.8	211.1	206.2
152.5°	237.0	238.2	242.7	247.2	242.7	238.2	237.0	228.3	216.8	211.1	206.7
155°	231.7	232.4	235.4	238.5	235.4	232.4	231.7	224.8	215.6	211.1	207.7
157.5°	227.1	227.7	229.8	231.9	229.8	227.7	227.1	221.8	214.6	211.1	208.8
160°	224.8	225.1	226.3	227.6	226.3	225.1	224.8	220.2	214.1	211.1	209.2
162.5°	222.7	223.0	224.1	225.3	224.1	223.0	222.7	218.8	213.6	211.1	209.7
165°	219.4	219.6	220.9	222.1	220.9	219.6	219.4	216.6	212.9	211.1	210.5
167.5°	217.9	218.0	218.6	219.1	218.6	218.0	217.9	216.1	213.7	212.5	212.0
170°	217.9	217.9	217.9	217.9	217.9	217.9	217.9	216.1	213.7	212.5	212.5
172.5°	216.8	216.7	216.2	215.8	216.2	216.7	216.8	215.4	213.4	212.5	212.5
175°	215.3	215.3	215.3	215.3	215.3	215.3	215.3	214.3	213.1	212.5	212.8
177.5°	215.0	214.9	214.3	213.8	214.3	214.9	215.0	214.2	213.3	212.8	213.0
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2530.6	2542.7	2549.9	2559.7	2583.8
5°	2433.6	2479.7	2494.2	2530.6	2574.2
7.5°	2220.3	2360.9	2399.6	2486.9	2554.8
10°	2014.3	2154.9	2222.8	2428.8	2530.6
12.5°	1910.0	1992.4	2038.5	2327.0	2496.7
15°	1844.6	1902.7	1936.7	2191.2	2457.9
17.5°	1793.7	1834.9	1859.1	2057.9	2404.5
20°	1762.2	1781.6	1803.4	1960.9	2344.0
22.5°	1740.4	1728.3	1745.2	1893.1	2261.5
25°	1725.8	1679.7	1699.1	1839.7	2164.5
27.5°	1737.9	1636.1	1643.4	1791.3	2062.7
30°	1740.4	1582.8	1585.2	1740.4	1948.8
32.5°	1723.4	1527.0	1529.5	1677.4	1820.3
35°	1682.2	1461.6	1459.1	1604.6	1645.8
37.5°	1626.5	1391.3	1391.3	1524.7	1454.4
40°	1558.6	1321.1	1328.3	1420.4	1284.7
42.5°	1476.1	1245.9	1255.5	1282.3	1158.6
45°	1386.5	1173.1	1180.5	1083.4	1061.7
47.5°	1287.1	1098.1	1100.4	899.2	1030.2
50°	1168.3	1020.4	1010.8	770.8	1027.8
52.5°	1064.1	935.6	906.6	698.1	933.2
55°	962.3	845.9	782.9	642.3	865.3
57.5°	872.6	729.6	669.0	576.9	850.8
60°	790.2	615.7	569.7	506.6	780.5
62.5°	722.4	530.8	521.1	458.1	707.8
65°	649.6	472.6	470.2	417.0	601.2
67.5°	579.3	433.9	431.5	378.1	458.1
70°	504.1	392.7	387.8	336.9	339.3
72.5°	426.6	346.7	341.8	303.0	281.2
75°	349.1	293.3	290.9	264.2	227.9
77.5°	273.9	232.7	237.5	213.3	167.2
80°	196.3	169.7	174.5	152.7	126.1
82.5°	130.9	111.5	116.3	96.9	84.8
85°	72.7	63.0	65.4	50.9	38.8
87.5°	33.9	29.1	29.1	19.4	12.1
90°	6.3	4.0	3.7	2.6	1.4
92.5°	39.0	27.7	25.2	15.5	5.7
95°	95.8	54.0	49.5	31.6	13.8
97.5°	129.0	59.2	55.3	39.5	23.8
100°	141.1	63.7	60.2	45.8	31.6
102.5°	146.7	68.2	64.8	51.6	38.2
105°	150.8	74.8	71.9	60.6	49.4
107.5°	151.6	84.5	81.8	71.3	60.8
110°	150.4	90.0	87.6	78.1	68.6



TEST NUMBER: P934203

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	150.4	96.6	94.3	85.3	76.2
115°	151.8	106.5	104.4	96.1	87.7
117.5°	154.6	116.0	114.1	106.6	99.0
120°	157.0	121.7	119.9	112.8	105.6
122.5°	160.2	128.3	126.4	119.3	112.0
125°	164.7	136.8	135.1	128.5	122.0
127.5°	169.1	144.9	143.2	136.6	130.0
130°	172.4	150.3	148.5	141.4	134.3
132.5°	175.1	154.8	153.0	145.9	138.8
135°	177.9	160.0	158.3	151.8	145.4
137.5°	182.2	166.6	164.9	158.5	152.1
140°	184.9	171.0	169.5	163.6	157.7
142.5°	187.0	174.3	173.0	167.4	162.0
145°	189.9	179.3	178.1	173.3	168.6
147.5°	194.2	185.7	184.5	179.8	175.1
150°	196.3	189.0	187.9	183.6	179.4
152.5°	197.8	191.1	190.3	187.1	183.9
155°	200.9	195.9	195.3	192.9	190.5
157.5°	204.1	200.5	200.0	197.7	195.4
160°	205.5	202.7	202.3	200.5	198.7
162.5°	207.0	205.0	204.7	203.3	202.0
165°	209.2	208.3	208.0	206.8	205.6
167.5°	211.0	210.2	210.0	209.4	208.9
170°	212.4	212.3	212.2	211.6	211.1
172.5°	212.5	212.5	212.5	212.3	212.2
175°	213.3	213.8	213.8	213.8	213.8
177.5°	213.4	213.8	213.8	213.8	213.8
180°	213.8	213.8	213.8	213.8	213.8



TEST NUMBER: P934203
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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	17.01	18.27	17.63	18.90	19.61	19.84	21.10	20.45	21.72	22.43
	3H	17.52	18.65	18.15	19.29	20.03	21.21	22.34	21.84	22.98	23.73
	4H	17.73	18.80	18.38	19.44	20.20	21.67	22.74	22.32	23.39	24.15
	6H	17.87	18.85	18.53	19.51	20.29	21.98	22.96	22.64	23.62	24.40
	8H	17.88	18.82	18.55	19.50	20.28	22.06	23.00	22.73	23.68	24.46
	12H	17.86	18.76	18.54	19.44	20.24	22.11	23.01	22.79	23.68	24.49
4H	2H	18.09	19.16	18.74	19.81	20.57	20.29	21.36	20.94	22.01	22.77
	3H	19.15	20.04	19.82	20.73	21.51	21.83	22.72	22.50	23.41	24.19
	4H	19.45	20.25	20.13	20.94	21.76	22.38	23.18	23.06	23.88	24.69
	6H	19.59	20.29	20.30	21.01	21.83	22.76	23.46	23.46	24.18	25.00
	8H	19.61	20.26	20.32	20.98	21.81	22.88	23.53	23.58	24.25	25.08
	12H	19.60	20.18	20.32	20.92	21.76	22.95	23.54	23.68	24.28	25.12
8H	4H	19.93	20.59	20.64	21.30	22.13	22.53	23.19	23.24	23.90	24.73
	6H	20.21	20.75	20.95	21.51	22.34	22.99	23.53	23.72	24.28	25.12
	8H	20.26	20.74	21.00	21.50	22.35	23.14	23.62	23.89	24.38	25.23
	12H	20.26	20.68	21.01	21.43	22.35	23.26	23.68	24.01	24.43	25.34
12H	4H	19.96	20.54	20.68	21.28	22.12	22.52	23.10	23.24	23.84	24.68
	6H	20.27	20.76	21.02	21.52	22.37	22.99	23.47	23.73	24.23	25.08
	8H	20.36	20.78	21.11	21.53	22.45	23.16	23.59	23.91	24.34	25.25