

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: P934171

Luminaire Tested: SQ4-FA-025U-125D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934171
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-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

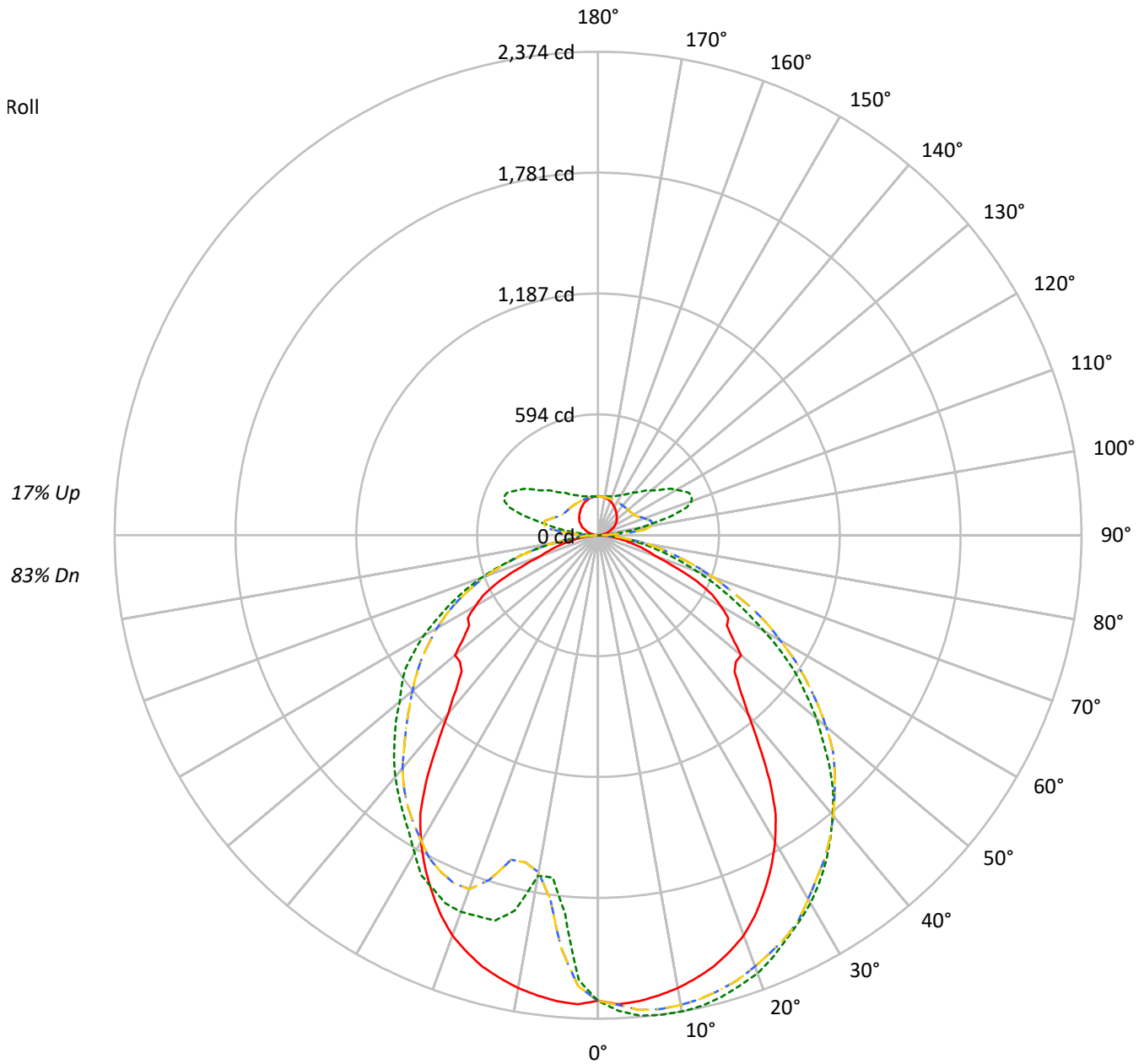
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7163.6 lumens
Efficiency: N/A
Efficacy: 96.3 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				
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°	14140	14140	14140	14140
5°	14241	14274	14241	11223
10°	14140	14060	14140	10052
15°	13981	13756	13981	11486
20°	13683	13395	13683	11510
25°	13079	12868	13079	11266
30°	12301	12431	12301	10731
35°	10961	11879	10961	10142
40°	9128	11228	9128	9697
45°	8151	10466	8151	9186
50°	8652	9558	8652	8673
55°	8133	8579	8133	8376
60°	8373	7287	8373	7672
65°	7579	6023	7579	6733
70°	5235	4800	5235	5643
75°	4575	3548	4575	4250
80°	3662	2346	3662	2554
85°	2063	1242	2063	1056

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12500 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	2.9
10°-20°	585.8	8.2
20°-30°	905.6	12.6
30°-40°	1081.1	15.1
40°-50°	1087.4	15.2
50°-60°	946.2	13.2
60°-70°	670.8	9.4
70°-80°	354.9	5.0
80°-90°	89.1	1.2
90°-100°	93.0	1.3
100°-110°	244.4	3.4
110°-120°	253.4	3.5
120°-130°	203.3	2.8
130°-140°	159.5	2.2
140°-150°	122.4	1.7
150°-160°	88.2	1.2
160°-170°	53.9	0.8
170°-180°	18.2	0.3
0°-30°	1697.7	23.7
0°-40°	2778.8	38.8
0°-60°	4812.3	67.2
0°-90°	5927.2	82.7
90°-120°	590.8	8.2
90°-150°	1076.0	15.0
90°-180°	1236.0	17.3
0°-180°	7163.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2286	2286	2286	2286	2286	
5°	2297	2368	2297	1862	2297	218
15°	2193	2346	2193	1959	2193	617
25°	1931	2188	1931	1916	1931	887
35°	1468	1953	1468	1667	1468	908
45°	947	1609	947	1412	947	759
55°	772	1187	772	1159	772	709
65°	536	716	536	800	536	513
75°	203	340	203	407	203	214
85°	35	86	35	74	35	47
90°	1	5	1	5	1	3
95°	12	56	12	56	12	14
105°	44	383	44	383	44	47
115°	78	493	78	493	78	77
125°	109	392	109	392	109	97
135°	130	304	130	304	130	100
145°	150	247	150	247	150	94
155°	170	213	170	213	170	78
165°	183	198	183	198	183	52
175°	191	192	191	192	191	18
180°	191	191	191	191	191	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2305.2	2305.2	2318.2	2322.5	2322.5	2316.0	2309.5	2316.0	2335.5	2342.0	2339.8
5°	2296.6	2313.9	2337.6	2342.0	2346.3	2344.1	2339.8	2344.1	2365.7	2370.1	2372.2
7.5°	2279.3	2311.6	2342.0	2348.5	2354.9	2348.5	2346.3	2350.6	2372.2	2376.6	2376.6
10°	2257.6	2303.0	2337.6	2342.0	2348.5	2342.0	2342.0	2350.6	2372.2	2376.6	2378.7
12.5°	2227.4	2290.1	2322.5	2326.8	2335.5	2333.3	2331.2	2339.8	2361.4	2365.7	2365.7
15°	2192.8	2266.2	2296.6	2300.9	2316.0	2311.6	2311.6	2320.3	2344.1	2350.6	2348.5
17.5°	2145.2	2236.0	2270.6	2277.1	2287.9	2285.7	2287.9	2296.6	2318.2	2322.5	2324.7
20°	2091.1	2194.9	2236.0	2242.5	2253.3	2253.3	2253.3	2264.1	2285.7	2294.4	2294.4
22.5°	2017.6	2151.6	2194.9	2199.3	2212.2	2212.2	2216.6	2231.6	2251.2	2253.3	2253.3
25°	1931.1	2104.1	2140.8	2153.9	2166.8	2173.3	2179.8	2188.4	2194.9	2192.8	2194.9
27.5°	1840.2	2043.5	2091.1	2099.8	2117.0	2123.5	2132.2	2134.3	2136.6	2143.0	2138.7
30°	1738.6	1959.2	2030.6	2039.2	2067.3	2071.6	2063.0	2067.3	2078.1	2082.5	2086.8
32.5°	1624.0	1833.8	1967.9	1987.3	2013.3	2000.3	1998.1	2004.6	2021.9	2021.9	2026.2
35°	1468.3	1736.5	1909.5	1926.8	1946.2	1931.1	1939.7	1941.9	1952.7	1959.2	1957.0
37.5°	1297.5	1652.1	1848.9	1861.9	1877.0	1857.5	1870.6	1877.0	1885.6	1881.4	1881.4
40°	1146.1	1520.2	1777.5	1786.2	1799.2	1784.0	1797.0	1801.4	1805.6	1801.4	1799.2
42.5°	1033.6	1375.3	1701.9	1712.7	1704.0	1714.8	1719.2	1727.9	1721.3	1712.7	1712.7
45°	947.2	1336.4	1619.7	1632.7	1619.7	1637.0	1643.5	1643.5	1624.0	1619.7	1617.5
47.5°	919.1	1258.6	1537.5	1537.5	1531.0	1552.7	1563.5	1548.3	1528.8	1522.4	1522.4
50°	916.9	1172.1	1425.1	1416.4	1446.7	1472.7	1461.9	1446.7	1431.5	1407.8	1407.8
52.5°	832.6	1066.1	1280.2	1312.6	1360.2	1375.3	1358.0	1342.9	1316.9	1306.1	1297.5
55°	772.0	955.8	1148.2	1213.2	1262.9	1282.3	1249.9	1234.8	1195.9	1189.4	1185.0
57.5°	759.0	795.8	1027.2	1109.4	1169.9	1167.8	1148.2	1120.1	1087.7	1081.3	1079.1
60°	696.3	575.2	897.4	994.7	1057.4	1050.9	1033.6	1007.7	977.4	973.2	968.8
62.5°	631.4	417.4	750.4	860.7	949.3	947.2	932.0	893.1	871.5	860.7	852.0
65°	536.3	350.3	534.1	715.8	843.4	847.7	815.3	787.2	763.4	750.4	748.2
67.5°	408.7	285.4	361.2	596.8	741.8	737.4	696.3	683.3	653.1	646.6	633.6
70°	302.7	190.3	250.8	484.4	642.2	631.4	599.0	583.9	555.8	540.6	532.0
72.5°	250.8	153.5	183.8	376.2	540.6	527.6	499.5	482.2	458.5	445.5	436.8
75°	203.3	162.2	140.6	278.9	439.0	430.3	404.4	387.1	367.6	350.3	352.5
77.5°	149.2	151.4	112.5	205.4	348.1	335.2	320.0	298.5	289.8	272.5	272.5
80°	112.5	118.9	84.3	140.6	250.8	250.8	237.9	222.7	207.6	198.9	198.9
82.5°	75.7	75.7	62.7	88.7	170.8	164.4	155.7	151.4	142.7	138.4	138.4
85°	34.6	43.3	38.9	54.1	93.0	97.3	97.3	93.0	90.8	86.5	88.7
87.5°	10.8	19.4	23.8	30.2	47.5	49.8	51.9	51.9	51.9	54.1	54.1
90°	1.3	2.3	3.3	3.6	5.6	8.3	9.7	8.6	6.5	4.9	4.9
92.5°	5.1	13.8	22.5	24.7	34.8	48.1	54.8	48.0	34.4	24.3	23.3
95°	12.3	28.2	44.1	48.1	85.5	135.2	160.1	142.9	108.4	82.6	79.7
97.5°	21.2	35.3	49.3	52.8	115.1	198.1	239.6	228.7	207.0	190.6	185.1
100°	28.2	40.9	53.7	56.8	125.9	218.0	264.0	264.8	266.4	267.6	261.0
102.5°	34.1	46.0	57.9	60.8	130.9	224.2	270.9	284.8	312.6	333.5	327.8
105°	44.0	54.1	64.2	66.7	134.5	224.9	270.2	301.3	363.5	410.2	407.2
107.5°	54.3	63.6	73.0	75.4	135.2	215.0	254.8	298.3	385.1	450.2	451.0
110°	61.2	69.7	78.1	80.3	134.2	206.1	242.1	290.6	387.7	460.4	463.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	68.0	76.1	84.1	86.1	134.2	198.3	230.4	280.1	379.4	453.9	458.7
115°	78.2	85.7	93.1	95.0	135.5	189.4	216.4	264.3	360.0	431.7	438.5
117.5°	88.4	95.1	101.8	103.5	137.9	183.9	206.9	250.1	336.4	401.1	408.6
120°	94.2	100.6	106.9	108.5	140.1	182.1	203.0	242.5	321.4	380.6	387.9
122.5°	99.9	106.4	112.8	114.4	143.0	181.0	200.0	235.6	306.6	360.0	367.2
125°	108.8	114.7	120.6	122.0	147.0	180.3	196.9	227.1	287.5	332.7	339.4
127.5°	116.0	121.8	127.8	129.2	150.9	179.8	194.2	220.1	272.0	310.8	316.4
130°	119.8	126.2	132.5	134.1	153.8	180.0	193.1	216.2	262.3	296.9	302.1
132.5°	123.8	130.2	136.5	138.1	156.2	180.3	192.3	212.9	254.2	285.2	289.8
135°	129.7	135.5	141.3	142.7	158.7	180.1	190.8	208.1	242.6	268.6	272.6
137.5°	135.7	141.4	147.1	148.6	162.6	181.2	190.5	205.2	234.4	256.3	259.5
140°	140.7	145.9	151.2	152.6	164.9	181.4	189.6	202.2	227.5	246.4	249.5
142.5°	144.5	149.4	154.3	155.5	166.8	182.0	189.6	200.6	222.9	239.5	242.1
145°	150.4	154.6	158.9	160.0	169.5	182.0	188.3	197.3	215.5	229.1	231.1
147.5°	156.3	160.4	164.6	165.6	173.2	183.3	188.3	195.4	209.7	220.4	222.0
150°	160.1	163.8	167.7	168.6	175.2	183.9	188.3	194.3	206.4	215.4	216.7
152.5°	164.1	166.9	169.8	170.5	176.4	184.4	188.3	193.4	203.7	211.5	212.5
155°	170.0	172.1	174.2	174.7	179.3	185.3	188.3	192.4	200.6	206.7	207.4
157.5°	174.3	176.4	178.4	178.9	182.1	186.2	188.3	191.4	197.8	202.6	203.1
160°	177.3	178.9	180.5	180.9	183.4	186.7	188.3	191.0	196.5	200.6	200.8
162.5°	180.2	181.4	182.6	182.9	184.7	187.1	188.3	190.6	195.2	198.7	198.9
165°	183.4	184.5	185.6	185.8	186.7	187.8	188.3	189.9	193.2	195.7	196.0
167.5°	186.3	186.8	187.4	187.5	188.2	189.1	189.6	190.7	192.8	194.4	194.5
170°	188.3	188.8	189.3	189.4	189.5	189.6	189.6	190.7	192.8	194.4	194.4
172.5°	189.3	189.4	189.6	189.6	189.6	189.6	189.6	190.4	192.1	193.4	193.3
175°	190.8	190.8	190.8	190.8	190.3	189.8	189.6	190.1	191.2	192.0	192.0
177.5°	190.8	190.8	190.8	190.8	190.4	190.0	189.8	190.3	191.1	191.8	191.7
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2344.1	2337.6	2344.1	2339.8	2342.0	2335.5	2316.0	2309.5	2316.0	2322.5	2322.5
5°	2372.2	2367.9	2372.2	2372.2	2370.1	2365.7	2344.1	2339.8	2344.1	2346.3	2342.0
7.5°	2380.9	2374.4	2380.9	2376.6	2376.6	2372.2	2350.6	2346.3	2348.5	2354.9	2348.5
10°	2380.9	2374.4	2380.9	2378.7	2376.6	2372.2	2350.6	2342.0	2342.0	2348.5	2342.0
12.5°	2370.1	2365.7	2370.1	2365.7	2365.7	2361.4	2339.8	2331.2	2333.3	2335.5	2326.8
15°	2352.8	2346.3	2352.8	2348.5	2350.6	2344.1	2320.3	2311.6	2311.6	2316.0	2300.9
17.5°	2326.8	2318.2	2326.8	2324.7	2322.5	2318.2	2296.6	2287.9	2285.7	2287.9	2277.1
20°	2296.6	2290.1	2296.6	2294.4	2294.4	2285.7	2264.1	2253.3	2253.3	2253.3	2242.5
22.5°	2248.9	2242.5	2248.9	2253.3	2253.3	2251.2	2231.6	2216.6	2212.2	2212.2	2199.3
25°	2194.9	2188.4	2194.9	2194.9	2192.8	2194.9	2188.4	2179.8	2173.3	2166.8	2153.9
27.5°	2143.0	2138.7	2143.0	2138.7	2143.0	2136.6	2134.3	2132.2	2123.5	2117.0	2099.8
30°	2091.1	2086.8	2091.1	2086.8	2082.5	2078.1	2067.3	2063.0	2071.6	2067.3	2039.2
32.5°	2026.2	2021.9	2026.2	2026.2	2021.9	2021.9	2004.6	1998.1	2000.3	2013.3	1987.3
35°	1959.2	1952.7	1959.2	1957.0	1959.2	1952.7	1941.9	1939.7	1931.1	1946.2	1926.8
37.5°	1881.4	1874.8	1881.4	1881.4	1881.4	1885.6	1877.0	1870.6	1857.5	1877.0	1861.9
40°	1801.4	1792.7	1801.4	1799.2	1801.4	1805.6	1801.4	1797.0	1784.0	1799.2	1786.2
42.5°	1710.6	1708.3	1710.6	1712.7	1712.7	1721.3	1727.9	1719.2	1714.8	1704.0	1712.7
45°	1613.2	1608.9	1613.2	1617.5	1619.7	1624.0	1643.5	1643.5	1637.0	1619.7	1632.7
47.5°	1509.4	1498.6	1509.4	1522.4	1522.4	1528.8	1548.3	1563.5	1552.7	1531.0	1537.5
50°	1399.2	1401.3	1399.2	1407.8	1407.8	1431.5	1446.7	1461.9	1472.7	1446.7	1416.4
52.5°	1291.0	1288.8	1291.0	1297.5	1306.1	1316.9	1342.9	1358.0	1375.3	1360.2	1312.6
55°	1182.8	1187.2	1182.8	1185.0	1189.4	1195.9	1234.8	1249.9	1282.3	1262.9	1213.2
57.5°	1074.7	1068.2	1074.7	1079.1	1081.3	1087.7	1120.1	1148.2	1167.8	1169.9	1109.4
60°	949.3	940.7	949.3	968.8	973.2	977.4	1007.7	1033.6	1050.9	1057.4	994.7
62.5°	839.0	823.9	839.0	852.0	860.7	871.5	893.1	932.0	947.2	949.3	860.7
65°	722.2	715.8	722.2	748.2	750.4	763.4	787.2	815.3	847.7	843.4	715.8
67.5°	616.3	616.3	616.3	633.6	646.6	653.1	683.3	696.3	737.4	741.8	596.8
70°	519.0	516.8	519.0	532.0	540.6	555.8	583.9	599.0	631.4	642.2	484.4
72.5°	426.0	423.9	426.0	436.8	445.5	458.5	482.2	499.5	527.6	540.6	376.2
75°	343.9	339.5	343.9	352.5	350.3	367.6	387.1	404.4	430.3	439.0	278.9
77.5°	263.9	263.9	263.9	272.5	272.5	289.8	298.5	320.0	335.2	348.1	205.4
80°	196.8	194.6	196.8	198.9	198.9	207.6	222.7	237.9	250.8	250.8	140.6
82.5°	138.4	134.1	138.4	138.4	138.4	142.7	151.4	155.7	164.4	170.8	88.7
85°	86.5	86.5	86.5	88.7	86.5	90.8	93.0	97.3	97.3	93.0	54.1
87.5°	56.2	54.1	56.2	54.1	54.1	51.9	51.9	51.9	49.8	47.5	30.2
90°	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.3	5.6	3.6
92.5°	19.4	15.6	19.4	23.3	24.3	34.4	48.0	54.8	48.1	34.8	24.7
95°	67.9	56.2	67.9	79.7	82.6	108.4	142.9	160.1	135.2	85.5	48.1
97.5°	162.7	140.4	162.7	185.1	190.6	207.0	228.7	239.6	198.1	115.1	52.8
100°	234.5	207.9	234.5	261.0	267.6	266.4	264.8	264.0	218.0	125.9	56.8
102.5°	305.0	282.3	305.0	327.8	333.5	312.6	284.8	270.9	224.2	130.9	60.8
105°	395.0	382.7	395.0	407.2	410.2	363.5	301.3	270.2	224.9	134.5	66.7
107.5°	453.9	456.8	453.9	451.0	450.2	385.1	298.3	254.8	215.0	135.2	75.4
110°	476.4	489.1	476.4	463.6	460.4	387.7	290.6	242.1	206.1	134.2	80.3



TEST NUMBER: P934171

CATALOG NUMBER: SQ4-FA-025U-125D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	478.3	497.9	478.3	458.7	453.9	379.4	280.1	230.4	198.3	134.2	86.1
115°	465.6	492.8	465.6	438.5	431.7	360.0	264.3	216.4	189.4	135.5	95.0
117.5°	438.8	468.9	438.8	408.6	401.1	336.4	250.1	206.9	183.9	137.9	103.5
120°	417.1	446.4	417.1	387.9	380.6	321.4	242.5	203.0	182.1	140.1	108.5
122.5°	396.0	424.8	396.0	367.2	360.0	306.6	235.6	200.0	181.0	143.0	114.4
125°	365.8	392.4	365.8	339.4	332.7	287.5	227.1	196.9	180.3	147.0	122.0
127.5°	338.8	361.2	338.8	316.4	310.8	272.0	220.1	194.2	179.8	150.9	129.2
130°	322.8	343.5	322.8	302.1	296.9	262.3	216.2	193.1	180.0	153.8	134.1
132.5°	308.3	326.9	308.3	289.8	285.2	254.2	212.9	192.3	180.3	156.2	138.1
135°	288.5	304.5	288.5	272.6	268.6	242.6	208.1	190.8	180.1	158.7	142.7
137.5°	272.6	285.7	272.6	259.5	256.3	234.4	205.2	190.5	181.2	162.6	148.6
140°	261.6	273.9	261.6	249.5	246.4	227.5	202.2	189.6	181.4	164.9	152.6
142.5°	252.6	263.2	252.6	242.1	239.5	222.9	200.6	189.6	182.0	166.8	155.5
145°	239.1	247.1	239.1	231.1	229.1	215.5	197.3	188.3	182.0	169.5	160.0
147.5°	228.7	235.2	228.7	222.0	220.4	209.7	195.4	188.3	183.3	173.2	165.6
150°	222.1	227.5	222.1	216.7	215.4	206.4	194.3	188.3	183.9	175.2	168.6
152.5°	216.5	220.6	216.5	212.5	211.5	203.7	193.4	188.3	184.4	176.4	170.5
155°	210.0	212.7	210.0	207.4	206.7	200.6	192.4	188.3	185.3	179.3	174.7
157.5°	205.0	206.9	205.0	203.1	202.6	197.8	191.4	188.3	186.2	182.1	178.9
160°	201.9	203.0	201.9	200.8	200.6	196.5	191.0	188.3	186.7	183.4	180.9
162.5°	200.0	201.0	200.0	198.9	198.7	195.2	190.6	188.3	187.1	184.7	182.9
165°	197.1	198.2	197.1	196.0	195.7	193.2	189.9	188.3	187.8	186.7	185.8
167.5°	195.0	195.4	195.0	194.5	194.4	192.8	190.7	189.6	189.1	188.2	187.5
170°	194.4	194.4	194.4	194.4	194.4	192.8	190.7	189.6	189.6	189.5	189.4
172.5°	192.9	192.6	192.9	193.3	193.4	192.1	190.4	189.6	189.6	189.6	189.6
175°	192.0	192.0	192.0	192.0	192.0	191.2	190.1	189.6	189.8	190.3	190.8
177.5°	191.2	190.8	191.2	191.7	191.8	191.1	190.3	189.8	190.0	190.4	190.8
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



TEST NUMBER: P934171
 CATALOG NUMBER: SQ4-FA-025U-125D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2318.2	2305.2	2305.2	2283.6	2274.9	2268.4	2257.6	2225.2	2216.6	2207.9	2220.8
5°	2337.6	2313.9	2296.6	2257.6	2225.2	2212.2	2171.2	2093.3	2041.4	2002.5	1980.8
7.5°	2342.0	2311.6	2279.3	2218.7	2140.8	2106.2	1980.8	1838.1	1799.2	1764.6	1742.9
10°	2337.6	2303.0	2257.6	2166.8	1983.0	1922.5	1797.0	1704.0	1680.2	1673.8	1680.2
12.5°	2322.5	2290.1	2227.4	2076.0	1818.7	1777.5	1704.0	1650.0	1645.6	1656.5	1714.8
15°	2296.6	2266.2	2192.8	1954.9	1727.9	1697.5	1645.6	1626.2	1650.0	1725.6	1900.8
17.5°	2270.6	2236.0	2145.2	1836.0	1658.6	1637.0	1600.2	1639.2	1773.3	1874.8	1933.3
20°	2236.0	2194.9	2091.1	1749.4	1608.9	1589.4	1572.1	1747.3	1848.9	1885.6	1918.1
22.5°	2194.9	2151.6	2017.6	1688.9	1556.9	1541.9	1552.7	1807.9	1848.9	1874.8	1902.9
25°	2140.8	2104.1	1931.1	1641.3	1515.9	1498.6	1539.6	1801.4	1825.2	1831.6	1887.9
27.5°	2091.1	2043.5	1840.2	1598.1	1466.1	1459.6	1550.5	1773.3	1790.6	1797.0	1857.5
30°	2030.6	1959.2	1738.6	1552.7	1414.2	1412.1	1552.7	1738.6	1734.3	1751.6	1812.1
32.5°	1967.9	1833.8	1624.0	1496.5	1364.6	1362.3	1537.5	1686.7	1682.4	1706.2	1751.6
35°	1909.5	1736.5	1468.3	1431.5	1301.8	1304.0	1500.8	1626.2	1628.3	1650.0	1678.1
37.5°	1848.9	1652.1	1297.5	1360.2	1241.3	1241.3	1451.0	1570.0	1565.6	1572.1	1611.0
40°	1777.5	1520.2	1146.1	1267.2	1185.0	1178.6	1390.5	1509.4	1494.2	1492.1	1546.2
42.5°	1701.9	1375.3	1033.6	1144.0	1120.1	1111.5	1316.9	1435.9	1407.8	1414.2	1483.4
45°	1619.7	1336.4	947.2	966.6	1053.2	1046.6	1236.9	1351.5	1332.1	1349.4	1420.7
47.5°	1537.5	1258.6	919.1	802.2	981.8	979.6	1148.2	1269.4	1258.6	1275.9	1351.5
50°	1425.1	1172.1	916.9	687.6	901.8	910.4	1042.3	1189.4	1189.4	1204.5	1284.5
52.5°	1280.2	1066.1	832.6	622.8	808.8	834.7	949.3	1120.1	1124.5	1139.6	1210.9
55°	1148.2	955.8	772.0	573.1	698.5	754.7	858.5	1048.8	1057.4	1072.6	1137.4
57.5°	1027.2	795.8	759.0	514.7	596.8	650.9	778.5	979.6	983.9	996.9	1059.6
60°	897.4	575.2	696.3	452.0	508.2	549.3	704.9	897.4	912.6	921.2	975.3
62.5°	750.4	417.4	631.4	408.7	464.9	473.5	644.5	819.5	839.0	845.5	878.0
65°	534.1	350.3	536.3	372.0	419.5	421.7	579.5	739.5	756.8	767.7	791.5
67.5°	361.2	285.4	408.7	337.3	384.9	387.1	516.8	646.6	670.4	679.0	694.1
70°	250.8	190.3	302.7	300.6	346.0	350.3	449.8	562.2	583.9	590.4	599.0
72.5°	183.8	153.5	250.8	270.3	304.9	309.3	380.6	467.1	488.7	495.2	499.5
75°	140.6	162.2	203.3	235.7	259.5	261.6	311.4	380.6	395.8	400.1	402.2
77.5°	112.5	151.4	149.2	190.3	211.9	207.6	244.4	294.1	307.1	307.1	307.1
80°	84.3	118.9	112.5	136.2	155.7	151.4	175.2	209.8	214.1	218.4	216.2
82.5°	62.7	75.7	75.7	86.5	103.8	99.5	116.8	136.2	136.2	136.2	140.6
85°	38.9	43.3	34.6	45.4	58.4	56.2	64.8	73.5	75.7	75.7	71.4
87.5°	23.8	19.4	10.8	17.3	26.0	26.0	30.2	32.5	30.2	30.2	30.2
90°	3.3	2.3	1.3	2.3	3.3	3.6	5.6	8.3	9.7	8.6	6.5
92.5°	22.5	13.8	5.1	13.8	22.5	24.7	34.8	48.1	54.8	48.0	34.4
95°	44.1	28.2	12.3	28.2	44.1	48.1	85.5	135.2	160.1	142.9	108.4
97.5°	49.3	35.3	21.2	35.3	49.3	52.8	115.1	198.1	239.6	228.7	207.0
100°	53.7	40.9	28.2	40.9	53.7	56.8	125.9	218.0	264.0	264.8	266.4
102.5°	57.9	46.0	34.1	46.0	57.9	60.8	130.9	224.2	270.9	284.8	312.6
105°	64.2	54.1	44.0	54.1	64.2	66.7	134.5	224.9	270.2	301.3	363.5
107.5°	73.0	63.6	54.3	63.6	73.0	75.4	135.2	215.0	254.8	298.3	385.1
110°	78.1	69.7	61.2	69.7	78.1	80.3	134.2	206.1	242.1	290.6	387.7



TEST NUMBER: P934171

CATALOG NUMBER: SQ4-FA-025U-125D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	84.1	76.1	68.0	76.1	84.1	86.1	134.2	198.3	230.4	280.1	379.4
115°	93.1	85.7	78.2	85.7	93.1	95.0	135.5	189.4	216.4	264.3	360.0
117.5°	101.8	95.1	88.4	95.1	101.8	103.5	137.9	183.9	206.9	250.1	336.4
120°	106.9	100.6	94.2	100.6	106.9	108.5	140.1	182.1	203.0	242.5	321.4
122.5°	112.8	106.4	99.9	106.4	112.8	114.4	143.0	181.0	200.0	235.6	306.6
125°	120.6	114.7	108.8	114.7	120.6	122.0	147.0	180.3	196.9	227.1	287.5
127.5°	127.8	121.8	116.0	121.8	127.8	129.2	150.9	179.8	194.2	220.1	272.0
130°	132.5	126.2	119.8	126.2	132.5	134.1	153.8	180.0	193.1	216.2	262.3
132.5°	136.5	130.2	123.8	130.2	136.5	138.1	156.2	180.3	192.3	212.9	254.2
135°	141.3	135.5	129.7	135.5	141.3	142.7	158.7	180.1	190.8	208.1	242.6
137.5°	147.1	141.4	135.7	141.4	147.1	148.6	162.6	181.2	190.5	205.2	234.4
140°	151.2	145.9	140.7	145.9	151.2	152.6	164.9	181.4	189.6	202.2	227.5
142.5°	154.3	149.4	144.5	149.4	154.3	155.5	166.8	182.0	189.6	200.6	222.9
145°	158.9	154.6	150.4	154.6	158.9	160.0	169.5	182.0	188.3	197.3	215.5
147.5°	164.6	160.4	156.3	160.4	164.6	165.6	173.2	183.3	188.3	195.4	209.7
150°	167.7	163.8	160.1	163.8	167.7	168.6	175.2	183.9	188.3	194.3	206.4
152.5°	169.8	166.9	164.1	166.9	169.8	170.5	176.4	184.4	188.3	193.4	203.7
155°	174.2	172.1	170.0	172.1	174.2	174.7	179.3	185.3	188.3	192.4	200.6
157.5°	178.4	176.4	174.3	176.4	178.4	178.9	182.1	186.2	188.3	191.4	197.8
160°	180.5	178.9	177.3	178.9	180.5	180.9	183.4	186.7	188.3	191.0	196.5
162.5°	182.6	181.4	180.2	181.4	182.6	182.9	184.7	187.1	188.3	190.6	195.2
165°	185.6	184.5	183.4	184.5	185.6	185.8	186.7	187.8	188.3	189.9	193.2
167.5°	187.4	186.8	186.3	186.8	187.4	187.5	188.2	189.1	189.6	190.7	192.8
170°	189.3	188.8	188.3	188.8	189.3	189.4	189.5	189.6	189.6	190.7	192.8
172.5°	189.6	189.4	189.3	189.4	189.6	189.6	189.6	189.6	189.6	190.4	192.1
175°	190.8	190.8	190.8	190.8	190.8	190.8	190.3	189.8	189.6	190.1	191.2
177.5°	190.8	190.8	190.8	190.8	190.8	190.8	190.4	190.0	189.8	190.3	191.1
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



TEST NUMBER: P934171
 CATALOG NUMBER: SQ4-FA-025U-125D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2205.7	2199.3	2207.9	2184.1	2207.9	2199.3	2205.7	2220.8	2207.9	2216.6	2225.2
5°	1935.4	1924.6	1890.0	1861.9	1890.0	1924.6	1935.4	1980.8	2002.5	2041.4	2093.3
7.5°	1730.0	1721.3	1712.7	1695.4	1712.7	1721.3	1730.0	1742.9	1764.6	1799.2	1838.1
10°	1684.6	1686.7	1699.7	1697.5	1699.7	1686.7	1684.6	1680.2	1673.8	1680.2	1704.0
12.5°	1801.4	1820.8	1892.2	1887.9	1892.2	1820.8	1801.4	1714.8	1656.5	1645.6	1650.0
15°	1935.4	1941.9	1957.0	1959.2	1957.0	1941.9	1935.4	1900.8	1725.6	1650.0	1626.2
17.5°	1948.4	1950.6	1961.4	1961.4	1961.4	1950.6	1948.4	1933.3	1874.8	1773.3	1639.2
20°	1937.6	1941.9	1963.5	1967.9	1963.5	1941.9	1937.6	1918.1	1885.6	1848.9	1747.3
22.5°	1933.3	1941.9	1959.2	1957.0	1959.2	1941.9	1933.3	1902.9	1874.8	1848.9	1807.9
25°	1911.6	1911.6	1913.8	1916.0	1913.8	1911.6	1911.6	1887.9	1831.6	1825.2	1801.4
27.5°	1866.2	1870.6	1883.5	1881.4	1883.5	1870.6	1866.2	1857.5	1797.0	1790.6	1773.3
30°	1825.2	1820.8	1810.0	1801.4	1810.0	1820.8	1825.2	1812.1	1751.6	1734.3	1738.6
32.5°	1756.0	1745.2	1734.3	1727.9	1734.3	1745.2	1756.0	1751.6	1706.2	1682.4	1686.7
35°	1673.8	1675.9	1673.8	1667.3	1673.8	1675.9	1673.8	1678.1	1650.0	1628.3	1626.2
37.5°	1615.4	1619.7	1617.5	1608.9	1617.5	1619.7	1615.4	1611.0	1572.1	1565.6	1570.0
40°	1554.8	1556.9	1554.8	1548.3	1554.8	1556.9	1554.8	1546.2	1492.1	1494.2	1509.4
42.5°	1496.5	1494.2	1487.8	1483.4	1487.8	1494.2	1496.5	1483.4	1414.2	1407.8	1435.9
45°	1429.4	1431.5	1418.6	1412.1	1418.6	1431.5	1429.4	1420.7	1349.4	1332.1	1351.5
47.5°	1362.3	1362.3	1351.5	1345.1	1351.5	1362.3	1362.3	1351.5	1275.9	1258.6	1269.4
50°	1291.0	1288.8	1273.7	1271.5	1273.7	1288.8	1291.0	1284.5	1204.5	1189.4	1189.4
52.5°	1208.8	1208.8	1210.9	1215.3	1210.9	1208.8	1208.8	1210.9	1139.6	1124.5	1120.1
55°	1137.4	1139.6	1154.8	1159.1	1154.8	1139.6	1137.4	1137.4	1072.6	1057.4	1048.8
57.5°	1064.0	1064.0	1074.7	1074.7	1074.7	1064.0	1064.0	1059.6	996.9	983.9	979.6
60°	979.6	983.9	992.6	990.4	992.6	983.9	979.6	975.3	921.2	912.6	897.4
62.5°	890.9	895.3	897.4	893.1	897.4	895.3	890.9	878.0	845.5	839.0	819.5
65°	798.0	802.2	804.5	800.1	804.5	802.2	798.0	791.5	767.7	756.8	739.5
67.5°	702.8	700.6	698.5	707.2	698.5	700.6	702.8	694.1	679.0	670.4	646.6
70°	605.5	605.5	603.3	607.6	603.3	605.5	605.5	599.0	590.4	583.9	562.2
72.5°	501.7	499.5	508.2	501.7	508.2	499.5	501.7	499.5	495.2	488.7	467.1
75°	400.1	404.4	400.1	406.6	400.1	404.4	400.1	402.2	400.1	395.8	380.6
77.5°	304.9	309.3	304.9	304.9	304.9	309.3	304.9	307.1	307.1	307.1	294.1
80°	216.2	214.1	214.1	211.9	214.1	214.1	216.2	216.2	218.4	214.1	209.8
82.5°	138.4	136.2	136.2	140.6	136.2	136.2	138.4	140.6	136.2	136.2	136.2
85°	75.7	77.9	73.5	73.5	73.5	77.9	75.7	71.4	75.7	75.7	73.5
87.5°	28.1	26.0	26.0	26.0	26.0	26.0	28.1	30.2	30.2	30.2	32.5
90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.3
92.5°	24.3	23.3	19.4	15.6	19.4	23.3	24.3	34.4	48.0	54.8	48.1
95°	82.6	79.7	67.9	56.2	67.9	79.7	82.6	108.4	142.9	160.1	135.2
97.5°	190.6	185.1	162.7	140.4	162.7	185.1	190.6	207.0	228.7	239.6	198.1
100°	267.6	261.0	234.5	207.9	234.5	261.0	267.6	266.4	264.8	264.0	218.0
102.5°	333.5	327.8	305.0	282.3	305.0	327.8	333.5	312.6	284.8	270.9	224.2
105°	410.2	407.2	395.0	382.7	395.0	407.2	410.2	363.5	301.3	270.2	224.9
107.5°	450.2	451.0	453.9	456.8	453.9	451.0	450.2	385.1	298.3	254.8	215.0
110°	460.4	463.6	476.4	489.1	476.4	463.6	460.4	387.7	290.6	242.1	206.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	453.9	458.7	478.3	497.9	478.3	458.7	453.9	379.4	280.1	230.4	198.3
115°	431.7	438.5	465.6	492.8	465.6	438.5	431.7	360.0	264.3	216.4	189.4
117.5°	401.1	408.6	438.8	468.9	438.8	408.6	401.1	336.4	250.1	206.9	183.9
120°	380.6	387.9	417.1	446.4	417.1	387.9	380.6	321.4	242.5	203.0	182.1
122.5°	360.0	367.2	396.0	424.8	396.0	367.2	360.0	306.6	235.6	200.0	181.0
125°	332.7	339.4	365.8	392.4	365.8	339.4	332.7	287.5	227.1	196.9	180.3
127.5°	310.8	316.4	338.8	361.2	338.8	316.4	310.8	272.0	220.1	194.2	179.8
130°	296.9	302.1	322.8	343.5	322.8	302.1	296.9	262.3	216.2	193.1	180.0
132.5°	285.2	289.8	308.3	326.9	308.3	289.8	285.2	254.2	212.9	192.3	180.3
135°	268.6	272.6	288.5	304.5	288.5	272.6	268.6	242.6	208.1	190.8	180.1
137.5°	256.3	259.5	272.6	285.7	272.6	259.5	256.3	234.4	205.2	190.5	181.2
140°	246.4	249.5	261.6	273.9	261.6	249.5	246.4	227.5	202.2	189.6	181.4
142.5°	239.5	242.1	252.6	263.2	252.6	242.1	239.5	222.9	200.6	189.6	182.0
145°	229.1	231.1	239.1	247.1	239.1	231.1	229.1	215.5	197.3	188.3	182.0
147.5°	220.4	222.0	228.7	235.2	228.7	222.0	220.4	209.7	195.4	188.3	183.3
150°	215.4	216.7	222.1	227.5	222.1	216.7	215.4	206.4	194.3	188.3	183.9
152.5°	211.5	212.5	216.5	220.6	216.5	212.5	211.5	203.7	193.4	188.3	184.4
155°	206.7	207.4	210.0	212.7	210.0	207.4	206.7	200.6	192.4	188.3	185.3
157.5°	202.6	203.1	205.0	206.9	205.0	203.1	202.6	197.8	191.4	188.3	186.2
160°	200.6	200.8	201.9	203.0	201.9	200.8	200.6	196.5	191.0	188.3	186.7
162.5°	198.7	198.9	200.0	201.0	200.0	198.9	198.7	195.2	190.6	188.3	187.1
165°	195.7	196.0	197.1	198.2	197.1	196.0	195.7	193.2	189.9	188.3	187.8
167.5°	194.4	194.5	195.0	195.4	195.0	194.5	194.4	192.8	190.7	189.6	189.1
170°	194.4	194.4	194.4	194.4	194.4	194.4	194.4	192.8	190.7	189.6	189.6
172.5°	193.4	193.3	192.9	192.6	192.9	193.3	193.4	192.1	190.4	189.6	189.6
175°	192.0	192.0	192.0	192.0	192.0	192.0	192.0	191.2	190.1	189.6	189.8
177.5°	191.8	191.7	191.2	190.8	191.2	191.7	191.8	191.1	190.3	189.8	190.0
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2285.7	2285.7	2285.7	2285.7	2285.7
2.5°	2257.6	2268.4	2274.9	2283.6	2305.2
5°	2171.2	2212.2	2225.2	2257.6	2296.6
7.5°	1980.8	2106.2	2140.8	2218.7	2279.3
10°	1797.0	1922.5	1983.0	2166.8	2257.6
12.5°	1704.0	1777.5	1818.7	2076.0	2227.4
15°	1645.6	1697.5	1727.9	1954.9	2192.8
17.5°	1600.2	1637.0	1658.6	1836.0	2145.2
20°	1572.1	1589.4	1608.9	1749.4	2091.1
22.5°	1552.7	1541.9	1556.9	1688.9	2017.6
25°	1539.6	1498.6	1515.9	1641.3	1931.1
27.5°	1550.5	1459.6	1466.1	1598.1	1840.2
30°	1552.7	1412.1	1414.2	1552.7	1738.6
32.5°	1537.5	1362.3	1364.6	1496.5	1624.0
35°	1500.8	1304.0	1301.8	1431.5	1468.3
37.5°	1451.0	1241.3	1241.3	1360.2	1297.5
40°	1390.5	1178.6	1185.0	1267.2	1146.1
42.5°	1316.9	1111.5	1120.1	1144.0	1033.6
45°	1236.9	1046.6	1053.2	966.6	947.2
47.5°	1148.2	979.6	981.8	802.2	919.1
50°	1042.3	910.4	901.8	687.6	916.9
52.5°	949.3	834.7	808.8	622.8	832.6
55°	858.5	754.7	698.5	573.1	772.0
57.5°	778.5	650.9	596.8	514.7	759.0
60°	704.9	549.3	508.2	452.0	696.3
62.5°	644.5	473.5	464.9	408.7	631.4
65°	579.5	421.7	419.5	372.0	536.3
67.5°	516.8	387.1	384.9	337.3	408.7
70°	449.8	350.3	346.0	300.6	302.7
72.5°	380.6	309.3	304.9	270.3	250.8
75°	311.4	261.6	259.5	235.7	203.3
77.5°	244.4	207.6	211.9	190.3	149.2
80°	175.2	151.4	155.7	136.2	112.5
82.5°	116.8	99.5	103.8	86.5	75.7
85°	64.8	56.2	58.4	45.4	34.6
87.5°	30.2	26.0	26.0	17.3	10.8
90°	5.6	3.6	3.3	2.3	1.3
92.5°	34.8	24.7	22.5	13.8	5.1
95°	85.5	48.1	44.1	28.2	12.3
97.5°	115.1	52.8	49.3	35.3	21.2
100°	125.9	56.8	53.7	40.9	28.2
102.5°	130.9	60.8	57.9	46.0	34.1
105°	134.5	66.7	64.2	54.1	44.0
107.5°	135.2	75.4	73.0	63.6	54.3
110°	134.2	80.3	78.1	69.7	61.2



TEST NUMBER: P934171

CATALOG NUMBER: SQ4-FA-025U-125D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	134.2	86.1	84.1	76.1	68.0
115°	135.5	95.0	93.1	85.7	78.2
117.5°	137.9	103.5	101.8	95.1	88.4
120°	140.1	108.5	106.9	100.6	94.2
122.5°	143.0	114.4	112.8	106.4	99.9
125°	147.0	122.0	120.6	114.7	108.8
127.5°	150.9	129.2	127.8	121.8	116.0
130°	153.8	134.1	132.5	126.2	119.8
132.5°	156.2	138.1	136.5	130.2	123.8
135°	158.7	142.7	141.3	135.5	129.7
137.5°	162.6	148.6	147.1	141.4	135.7
140°	164.9	152.6	151.2	145.9	140.7
142.5°	166.8	155.5	154.3	149.4	144.5
145°	169.5	160.0	158.9	154.6	150.4
147.5°	173.2	165.6	164.6	160.4	156.3
150°	175.2	168.6	167.7	163.8	160.1
152.5°	176.4	170.5	169.8	166.9	164.1
155°	179.3	174.7	174.2	172.1	170.0
157.5°	182.1	178.9	178.4	176.4	174.3
160°	183.4	180.9	180.5	178.9	177.3
162.5°	184.7	182.9	182.6	181.4	180.2
165°	186.7	185.8	185.6	184.5	183.4
167.5°	188.2	187.5	187.4	186.8	186.3
170°	189.5	189.4	189.3	188.8	188.3
172.5°	189.6	189.6	189.6	189.4	189.3
175°	190.3	190.8	190.8	190.8	190.8
177.5°	190.4	190.8	190.8	190.8	190.8
180°	190.8	190.8	190.8	190.8	190.8



TEST NUMBER: P934171
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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	16.62	17.88	17.23	18.50	19.21	19.44	20.70	20.06	21.33	22.04
	3H	17.12	18.26	17.75	18.89	19.64	20.81	21.95	21.44	22.58	23.33
	4H	17.33	18.40	17.98	19.05	19.81	21.28	22.34	21.92	22.99	23.75
	6H	17.47	18.46	18.13	19.12	19.89	21.58	22.56	22.24	23.22	24.00
	8H	17.48	18.42	18.16	19.10	19.88	21.66	22.60	22.34	23.28	24.06
	12H	17.47	18.37	18.15	19.04	19.85	21.71	22.61	22.39	23.29	24.09
4H	2H	17.70	18.76	18.35	19.41	20.17	19.90	20.96	20.55	21.61	22.37
	3H	18.76	19.65	19.42	20.33	21.11	21.44	22.33	22.10	23.01	23.79
	4H	19.05	19.86	19.73	20.55	21.36	21.98	22.79	22.66	23.48	24.29
	6H	19.20	19.90	19.90	20.61	21.44	22.37	23.07	23.07	23.78	24.61
	8H	19.21	19.87	19.92	20.58	21.41	22.48	23.14	23.19	23.85	24.68
	12H	19.20	19.79	19.93	20.53	21.36	22.56	23.15	23.28	23.88	24.72
8H	4H	19.53	20.19	20.24	20.90	21.74	22.14	22.79	22.84	23.51	24.34
	6H	19.81	20.36	20.55	21.11	21.95	22.59	23.13	23.33	23.89	24.72
	8H	19.86	20.34	20.61	21.10	21.95	22.74	23.23	23.49	23.99	24.84
	12H	19.86	20.29	20.61	21.04	21.95	22.86	23.29	23.61	24.03	24.95
12H	4H	19.56	20.15	20.29	20.89	21.72	22.12	22.71	22.85	23.45	24.29
	6H	19.88	20.36	20.63	21.12	21.97	22.59	23.07	23.34	23.83	24.68
	8H	19.96	20.39	20.71	21.14	22.05	22.77	23.19	23.52	23.94	24.86