

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: P934044

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934044
REPORT IS A COMBINATION OF REPORTS P933684 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

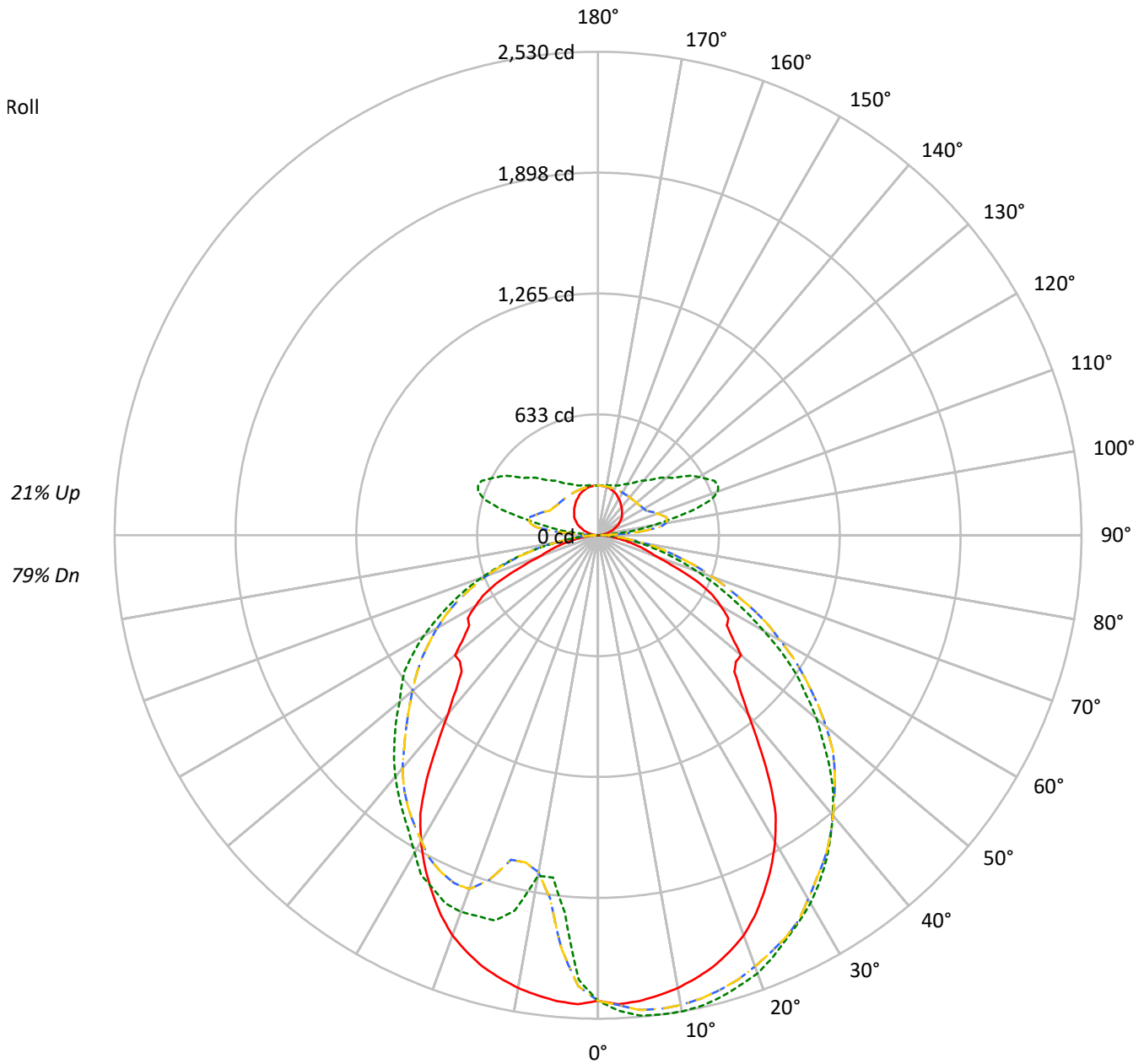
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8003.5 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 77.6
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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79			79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67			67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56			56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47			47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41			41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35			35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27			27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24			24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22			22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20			20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11301	11301	11301	11301
5°	11385	11407	11385	8970
10°	11309	11237	11309	8034
15°	11186	10993	11186	9180
20°	10952	10705	10952	9199
25°	10473	10284	10473	9004
30°	9854	9935	9854	8576
35°	8785	9493	8785	8105
40°	7320	8973	7320	7750
45°	6541	8365	6541	7341
50°	6948	7639	6948	6932
55°	6538	6857	6538	6694
60°	6739	5823	6739	6131
65°	6109	4814	6109	5381
70°	4231	3837	4231	4510
75°	3710	2836	3710	3396
80°	2989	1875	2989	2042
85°	1719	993	1719	844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10024 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	2.7
10°-20°	624.2	7.8
20°-30°	965.0	12.1
30°-40°	1152.0	14.4
40°-50°	1158.7	14.5
50°-60°	1008.2	12.6
60°-70°	714.9	8.9
70°-80°	378.2	4.7
80°-90°	95.2	1.2
90°-100°	126.9	1.6
100°-110°	333.6	4.2
110°-120°	345.9	4.3
120°-130°	277.4	3.5
130°-140°	217.7	2.7
140°-150°	167.1	2.1
150°-160°	120.3	1.5
160°-170°	73.6	0.9
170°-180°	24.9	0.3
0°-30°	1809.1	22.6
0°-40°	2961.1	37.0
0°-60°	5128.0	64.1
0°-90°	6316.2	78.9
90°-120°	806.3	10.1
90°-150°	1468.5	18.3
90°-180°	1687.0	21.1
0°-180°	8003.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2436	2436	2436	2436	2436	
5°	2447	2523	2447	1984	2447	232
15°	2337	2500	2337	2088	2337	657
25°	2058	2332	2058	2042	2058	945
35°	1565	2081	1565	1777	1565	968
45°	1009	1714	1009	1505	1009	809
55°	823	1265	823	1235	823	756
65°	571	763	571	853	571	546
75°	217	362	217	433	217	228
85°	37	92	37	78	37	50
90°	2	7	2	7	2	3
95°	17	77	17	77	17	19
105°	60	522	60	522	60	64
115°	107	672	107	672	107	105
125°	148	536	148	536	148	132
135°	177	416	177	416	177	137
145°	205	337	205	337	205	129
155°	232	290	232	290	232	107
165°	250	270	250	270	250	71
175°	260	262	260	262	260	25
180°	260	260	260	260	260	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7
2.5°	2456.4	2456.4	2470.2	2474.8	2474.8	2467.9	2461.1	2467.9	2488.7	2495.6	2493.3
5°	2447.2	2465.6	2491.0	2495.6	2500.2	2497.9	2493.3	2497.9	2521.0	2525.6	2527.9
7.5°	2428.8	2463.3	2495.6	2502.5	2509.5	2502.5	2500.2	2504.8	2527.9	2532.5	2532.5
10°	2405.7	2454.1	2491.0	2495.6	2502.5	2495.6	2495.6	2504.8	2527.9	2532.5	2534.7
12.5°	2373.4	2440.3	2474.8	2479.5	2488.7	2486.3	2484.1	2493.3	2516.3	2521.0	2521.0
15°	2336.6	2414.9	2447.2	2451.8	2467.9	2463.3	2463.3	2472.6	2497.9	2504.8	2502.5
17.5°	2285.9	2382.7	2419.5	2426.4	2437.9	2435.7	2437.9	2447.2	2470.2	2474.8	2477.2
20°	2228.3	2338.9	2382.7	2389.5	2401.1	2401.1	2401.1	2412.7	2435.7	2444.9	2444.9
22.5°	2149.9	2292.8	2338.9	2343.5	2357.3	2357.3	2361.9	2378.0	2398.8	2401.1	2401.1
25°	2057.7	2242.1	2281.2	2295.1	2309.0	2315.9	2322.7	2332.0	2338.9	2336.6	2338.9
27.5°	1960.9	2177.6	2228.3	2237.5	2256.0	2262.8	2272.1	2274.4	2276.7	2283.6	2279.0
30°	1852.6	2087.7	2163.8	2173.0	2202.9	2207.6	2198.3	2202.9	2214.4	2219.1	2223.7
32.5°	1730.6	1954.1	2097.0	2117.6	2145.3	2131.5	2129.2	2136.1	2154.5	2154.5	2159.2
35°	1564.6	1850.4	2034.7	2053.1	2073.9	2057.7	2067.0	2069.2	2080.8	2087.7	2085.4
37.5°	1382.6	1760.5	1970.2	1984.1	2000.2	1979.4	1993.2	2000.2	2009.3	2004.8	2004.8
40°	1221.3	1620.0	1894.1	1903.4	1917.2	1901.0	1914.9	1919.5	1924.1	1919.5	1917.2
42.5°	1101.5	1465.5	1813.5	1825.0	1815.8	1827.3	1832.0	1841.1	1834.2	1825.0	1825.0
45°	1009.3	1424.0	1725.9	1739.8	1725.9	1744.4	1751.3	1751.3	1730.6	1725.9	1723.7
47.5°	979.4	1341.1	1638.4	1638.4	1631.5	1654.5	1666.0	1649.9	1629.1	1622.2	1622.2
50°	977.0	1248.9	1518.6	1509.3	1541.6	1569.2	1557.7	1541.6	1525.4	1500.1	1500.1
52.5°	887.2	1136.0	1364.1	1398.7	1449.4	1465.5	1447.1	1431.0	1403.4	1391.9	1382.6
55°	822.7	1018.5	1223.6	1292.7	1345.7	1366.5	1331.9	1315.8	1274.3	1267.4	1262.8
57.5°	808.8	848.0	1094.6	1182.1	1246.7	1244.3	1223.6	1193.6	1159.1	1152.1	1149.9
60°	742.0	613.0	956.3	1060.0	1126.8	1119.9	1101.5	1073.8	1041.6	1036.9	1032.3
62.5°	672.9	444.7	799.6	917.1	1011.6	1009.3	993.2	951.7	928.6	917.1	907.9
65°	571.4	373.3	569.2	762.8	898.7	903.3	868.7	838.8	813.4	799.6	797.3
67.5°	435.5	304.2	384.8	636.0	790.4	785.8	742.0	728.1	695.9	689.0	675.1
70°	322.6	202.7	267.3	516.2	684.4	672.9	638.3	622.2	592.2	576.1	566.8
72.5°	267.3	163.6	195.9	401.0	576.1	562.3	532.3	513.9	488.5	474.6	465.5
75°	216.6	172.8	149.8	297.3	467.8	458.6	430.9	412.5	391.7	373.3	375.6
77.5°	159.0	161.3	119.8	218.9	371.0	357.2	341.1	318.0	308.8	290.4	290.4
80°	119.8	126.7	89.9	149.8	267.3	267.3	253.5	237.4	221.2	212.0	212.0
82.5°	80.7	80.7	66.8	94.4	182.1	175.1	165.9	161.3	152.1	147.5	147.5
85°	36.9	46.0	41.5	57.6	99.1	103.7	103.7	99.1	96.8	92.2	94.4
87.5°	11.5	20.8	25.4	32.3	50.7	53.0	55.3	55.3	55.3	57.6	57.6
90°	1.7	3.1	4.5	4.9	7.7	11.4	13.3	11.8	8.8	6.6	6.6
92.5°	7.0	18.8	30.8	33.7	47.4	65.7	74.7	65.5	47.1	33.2	31.9
95°	16.7	38.5	60.3	65.7	116.6	184.5	218.5	195.0	148.0	112.7	108.7
97.5°	29.0	48.2	67.3	72.1	157.1	270.3	327.0	312.2	282.5	260.1	252.5
100°	38.5	55.8	73.2	77.5	171.8	297.5	360.3	361.5	363.6	365.3	356.2
102.5°	46.5	62.7	78.9	82.9	178.6	306.1	369.8	388.8	426.6	455.0	447.3
105°	60.1	73.9	87.6	91.0	183.7	307.0	368.8	411.3	496.2	559.8	555.7
107.5°	74.0	86.9	99.7	102.9	184.5	293.4	347.8	407.0	525.5	614.3	615.4
110°	83.5	95.1	106.6	109.5	183.1	281.2	330.3	396.5	529.0	628.3	632.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	92.8	103.8	114.8	117.6	183.2	270.7	314.5	382.2	517.7	619.4	626.1
115°	106.7	116.9	127.1	129.6	184.9	258.6	295.4	360.7	491.3	589.2	598.5
117.5°	120.5	129.8	139.0	141.4	188.4	251.0	282.3	341.2	459.0	547.5	557.8
120°	128.5	137.3	146.0	148.2	191.1	248.4	277.0	330.8	438.5	519.3	529.2
122.5°	136.4	145.2	154.0	156.2	195.2	247.0	273.0	321.5	418.5	491.2	501.1
125°	148.5	156.5	164.5	166.5	200.6	246.0	268.7	309.8	392.2	454.0	463.1
127.5°	158.3	166.3	174.4	176.4	206.0	245.3	265.0	300.4	371.1	424.2	431.8
130°	163.5	172.2	180.9	183.0	209.9	245.7	263.6	295.1	358.1	405.2	412.3
132.5°	168.9	177.6	186.3	188.4	213.1	246.0	262.4	290.6	346.9	389.2	395.6
135°	176.9	184.9	192.8	194.8	216.6	245.7	260.3	283.9	331.1	366.5	371.9
137.5°	185.1	193.0	200.8	202.8	221.8	247.2	260.0	279.9	319.8	349.7	354.1
140°	191.9	199.2	206.4	208.2	225.1	247.5	258.7	276.0	310.4	336.3	340.4
142.5°	197.3	203.9	210.6	212.3	227.8	248.4	258.7	273.9	304.2	326.8	330.4
145°	205.3	211.1	216.9	218.4	231.3	248.4	257.0	269.4	294.1	312.7	315.4
147.5°	213.3	219.0	224.6	226.0	236.3	250.1	257.0	266.8	286.2	300.8	303.0
150°	218.5	223.7	228.7	230.0	239.0	251.0	257.0	265.2	281.7	294.0	295.8
152.5°	223.9	227.8	231.7	232.7	240.8	251.6	257.0	264.0	278.0	288.6	290.0
155°	232.0	234.8	237.7	238.4	244.6	252.9	257.0	262.6	273.7	282.1	283.0
157.5°	237.9	240.7	243.5	244.2	248.4	254.1	257.0	261.3	270.0	276.5	277.1
160°	241.9	244.1	246.3	246.8	250.2	254.7	257.0	260.7	268.2	273.7	274.1
162.5°	245.9	247.6	249.1	249.6	252.0	255.3	257.0	260.1	266.4	271.1	271.5
165°	250.4	251.8	253.3	253.7	254.8	256.3	257.0	259.3	263.7	267.1	267.5
167.5°	254.4	255.1	255.8	255.9	256.9	258.1	258.7	260.2	263.2	265.4	265.5
170°	257.0	257.7	258.4	258.6	258.6	258.7	258.7	260.2	263.2	265.4	265.4
172.5°	258.4	258.6	258.7	258.7	258.7	258.7	258.7	259.9	262.2	264.0	263.8
175°	260.3	260.3	260.3	260.3	259.8	259.1	258.7	259.4	260.9	262.0	262.0
177.5°	260.3	260.3	260.3	260.3	259.9	259.3	259.1	259.7	260.8	261.7	261.5
180°	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7
2.5°	2497.9	2491.0	2497.9	2493.3	2495.6	2488.7	2467.9	2461.1	2467.9	2474.8	2474.8
5°	2527.9	2523.2	2527.9	2527.9	2525.6	2521.0	2497.9	2493.3	2497.9	2500.2	2495.6
7.5°	2537.1	2530.1	2537.1	2532.5	2532.5	2527.9	2504.8	2500.2	2502.5	2509.5	2502.5
10°	2537.1	2530.1	2537.1	2534.7	2532.5	2527.9	2504.8	2495.6	2495.6	2502.5	2495.6
12.5°	2525.6	2521.0	2525.6	2521.0	2521.0	2516.3	2493.3	2484.1	2486.3	2488.7	2479.5
15°	2507.1	2500.2	2507.1	2502.5	2504.8	2497.9	2472.6	2463.3	2463.3	2467.9	2451.8
17.5°	2479.5	2470.2	2479.5	2477.2	2474.8	2470.2	2447.2	2437.9	2435.7	2437.9	2426.4
20°	2447.2	2440.3	2447.2	2444.9	2444.9	2435.7	2412.7	2401.1	2401.1	2401.1	2389.5
22.5°	2396.5	2389.5	2396.5	2401.1	2401.1	2398.8	2378.0	2361.9	2357.3	2357.3	2343.5
25°	2338.9	2332.0	2338.9	2338.9	2336.6	2338.9	2332.0	2322.7	2315.9	2309.0	2295.1
27.5°	2283.6	2279.0	2283.6	2279.0	2283.6	2276.7	2274.4	2272.1	2262.8	2256.0	2237.5
30°	2228.3	2223.7	2228.3	2223.7	2219.1	2214.4	2202.9	2198.3	2207.6	2202.9	2173.0
32.5°	2159.2	2154.5	2159.2	2159.2	2154.5	2154.5	2136.1	2129.2	2131.5	2145.3	2117.6
35°	2087.7	2080.8	2087.7	2085.4	2087.7	2080.8	2069.2	2067.0	2057.7	2073.9	2053.1
37.5°	2004.8	1997.8	2004.8	2004.8	2004.8	2009.3	2000.2	1993.2	1979.4	2000.2	1984.1
40°	1919.5	1910.3	1919.5	1917.2	1919.5	1924.1	1919.5	1914.9	1901.0	1917.2	1903.4
42.5°	1822.7	1820.5	1822.7	1825.0	1825.0	1834.2	1841.1	1832.0	1827.3	1815.8	1825.0
45°	1719.0	1714.4	1719.0	1723.7	1725.9	1730.6	1751.3	1751.3	1744.4	1725.9	1739.8
47.5°	1608.4	1596.9	1608.4	1622.2	1622.2	1629.1	1649.9	1666.0	1654.5	1631.5	1638.4
50°	1490.9	1493.2	1490.9	1500.1	1500.1	1525.4	1541.6	1557.7	1569.2	1541.6	1509.3
52.5°	1375.7	1373.4	1375.7	1382.6	1391.9	1403.4	1431.0	1447.1	1465.5	1449.4	1398.7
55°	1260.4	1265.1	1260.4	1262.8	1267.4	1274.3	1315.8	1331.9	1366.5	1345.7	1292.7
57.5°	1145.2	1138.4	1145.2	1149.9	1152.1	1159.1	1193.6	1223.6	1244.3	1246.7	1182.1
60°	1011.6	1002.4	1011.6	1032.3	1036.9	1041.6	1073.8	1101.5	1119.9	1126.8	1060.0
62.5°	894.1	878.0	894.1	907.9	917.1	928.6	951.7	993.2	1009.3	1011.6	917.1
65°	769.7	762.8	769.7	797.3	799.6	813.4	838.8	868.7	903.3	898.7	762.8
67.5°	656.7	656.7	656.7	675.1	689.0	695.9	728.1	742.0	785.8	790.4	636.0
70°	553.0	550.8	553.0	566.8	576.1	592.2	622.2	638.3	672.9	684.4	516.2
72.5°	454.0	451.6	454.0	465.5	474.6	488.5	513.9	532.3	562.3	576.1	401.0
75°	366.4	361.8	366.4	375.6	373.3	391.7	412.5	430.9	458.6	467.8	297.3
77.5°	281.1	281.1	281.1	290.4	290.4	308.8	318.0	341.1	357.2	371.0	218.9
80°	209.7	207.4	209.7	212.0	212.0	221.2	237.4	253.5	267.3	267.3	149.8
82.5°	147.5	142.8	147.5	147.5	147.5	152.1	161.3	165.9	175.1	182.1	94.4
85°	92.2	92.2	92.2	94.4	92.2	96.8	99.1	103.7	103.7	99.1	57.6
87.5°	59.9	57.6	59.9	57.6	57.6	55.3	55.3	55.3	53.0	50.7	32.3
90°	6.6	6.6	6.6	6.6	6.6	8.8	11.8	13.3	11.4	7.7	4.9
92.5°	26.6	21.3	26.6	31.9	33.2	47.1	65.5	74.7	65.7	47.4	33.7
95°	92.7	76.7	92.7	108.7	112.7	148.0	195.0	218.5	184.5	116.6	65.7
97.5°	222.0	191.6	222.0	252.5	260.1	282.5	312.2	327.0	270.3	157.1	72.1
100°	319.9	283.7	319.9	356.2	365.3	363.6	361.5	360.3	297.5	171.8	77.5
102.5°	416.2	385.2	416.2	447.3	455.0	426.6	388.8	369.8	306.1	178.6	82.9
105°	539.0	522.3	539.0	555.7	559.8	496.2	411.3	368.8	307.0	183.7	91.0
107.5°	619.4	623.4	619.4	615.4	614.3	525.5	407.0	347.8	293.4	184.5	102.9
110°	650.0	667.5	650.0	632.7	628.3	529.0	396.5	330.3	281.2	183.1	109.5



TEST NUMBER: P934044

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	652.8	679.5	652.8	626.1	619.4	517.7	382.2	314.5	270.7	183.2	117.6
115°	635.5	672.5	635.5	598.5	589.2	491.3	360.7	295.4	258.6	184.9	129.6
117.5°	598.8	639.9	598.8	557.8	547.5	459.0	341.2	282.3	251.0	188.4	141.4
120°	569.2	609.1	569.2	529.2	519.3	438.5	330.8	277.0	248.4	191.1	148.2
122.5°	540.4	579.7	540.4	501.1	491.2	418.5	321.5	273.0	247.0	195.2	156.2
125°	499.3	535.6	499.3	463.1	454.0	392.2	309.8	268.7	246.0	200.6	166.5
127.5°	462.4	493.0	462.4	431.8	424.2	371.1	300.4	265.0	245.3	206.0	176.4
130°	440.6	468.8	440.6	412.3	405.2	358.1	295.1	263.6	245.7	209.9	183.0
132.5°	420.8	446.1	420.8	395.6	389.2	346.9	290.6	262.4	246.0	213.1	188.4
135°	393.7	415.5	393.7	371.9	366.5	331.1	283.9	260.3	245.7	216.6	194.8
137.5°	372.0	389.9	372.0	354.1	349.7	319.8	279.9	260.0	247.2	221.8	202.8
140°	357.1	373.8	357.1	340.4	336.3	310.4	276.0	258.7	247.5	225.1	208.2
142.5°	344.8	359.1	344.8	330.4	326.8	304.2	273.9	258.7	248.4	227.8	212.3
145°	326.3	337.1	326.3	315.4	312.7	294.1	269.4	257.0	248.4	231.3	218.4
147.5°	312.0	321.1	312.0	303.0	300.8	286.2	266.8	257.0	250.1	236.3	226.0
150°	303.1	310.4	303.1	295.8	294.0	281.7	265.2	257.0	251.0	239.0	230.0
152.5°	295.4	300.9	295.4	290.0	288.6	278.0	264.0	257.0	251.6	240.8	232.7
155°	286.6	290.3	286.6	283.0	282.1	273.7	262.6	257.0	252.9	244.6	238.4
157.5°	279.7	282.3	279.7	277.1	276.5	270.0	261.3	257.0	254.1	248.4	244.2
160°	275.6	277.0	275.6	274.1	273.7	268.2	260.7	257.0	254.7	250.2	246.8
162.5°	272.9	274.3	272.9	271.5	271.1	266.4	260.1	257.0	255.3	252.0	249.6
165°	268.9	270.4	268.9	267.5	267.1	263.7	259.3	257.0	256.3	254.8	253.7
167.5°	266.1	266.8	266.1	265.5	265.4	263.2	260.2	258.7	258.1	256.9	255.9
170°	265.4	265.4	265.4	265.4	265.4	263.2	260.2	258.7	258.7	258.6	258.6
172.5°	263.3	262.7	263.3	263.8	264.0	262.2	259.9	258.7	258.7	258.7	258.7
175°	262.0	262.0	262.0	262.0	262.0	260.9	259.4	258.7	259.1	259.8	260.3
177.5°	260.9	260.3	260.9	261.5	261.7	260.8	259.7	259.1	259.3	259.9	260.3
180°	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3



TEST NUMBER: P934044

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7
2.5°	2470.2	2456.4	2456.4	2433.4	2424.2	2417.3	2405.7	2371.1	2361.9	2352.7	2366.5
5°	2491.0	2465.6	2447.2	2405.7	2371.1	2357.3	2313.5	2230.6	2175.3	2133.8	2110.8
7.5°	2495.6	2463.3	2428.8	2364.3	2281.2	2244.4	2110.8	1958.7	1917.2	1880.4	1857.3
10°	2491.0	2454.1	2405.7	2309.0	2113.0	2048.6	1914.9	1815.8	1790.5	1783.6	1790.5
12.5°	2474.8	2440.3	2373.4	2212.2	1937.9	1894.1	1815.8	1758.2	1753.6	1765.1	1827.3
15°	2447.2	2414.9	2336.6	2083.1	1841.1	1808.9	1753.6	1732.8	1758.2	1838.9	2025.5
17.5°	2419.5	2382.7	2285.9	1956.4	1767.4	1744.4	1705.2	1746.7	1889.5	1997.8	2060.1
20°	2382.7	2338.9	2228.3	1864.2	1714.4	1693.7	1675.3	1861.9	1970.2	2009.3	2044.0
22.5°	2338.9	2292.8	2149.9	1799.7	1659.1	1643.0	1654.5	1926.4	1970.2	1997.8	2027.8
25°	2281.2	2242.1	2057.7	1749.0	1615.4	1596.9	1640.6	1919.5	1944.8	1951.8	2011.7
27.5°	2228.3	2177.6	1960.9	1702.9	1562.3	1555.4	1652.2	1889.5	1908.0	1914.9	1979.4
30°	2163.8	2087.7	1852.6	1654.5	1507.0	1504.7	1654.5	1852.6	1848.1	1866.5	1931.0
32.5°	2097.0	1954.1	1730.6	1594.6	1454.0	1451.8	1638.4	1797.3	1792.7	1818.1	1866.5
35°	2034.7	1850.4	1564.6	1525.4	1387.2	1389.5	1599.2	1732.8	1735.2	1758.2	1788.2
37.5°	1970.2	1760.5	1382.6	1449.4	1322.7	1322.7	1546.2	1672.9	1668.4	1675.3	1716.7
40°	1894.1	1620.0	1221.3	1350.3	1262.8	1255.8	1481.7	1608.4	1592.2	1590.0	1647.6
42.5°	1813.5	1465.5	1101.5	1219.0	1193.6	1184.4	1403.4	1530.1	1500.1	1507.0	1580.7
45°	1725.9	1424.0	1009.3	1030.0	1122.2	1115.3	1318.1	1440.2	1419.5	1437.9	1513.9
47.5°	1638.4	1341.1	979.4	854.9	1046.2	1043.8	1223.6	1352.6	1341.1	1359.6	1440.2
50°	1518.6	1248.9	977.0	732.8	960.9	970.1	1110.7	1267.4	1267.4	1283.5	1368.7
52.5°	1364.1	1136.0	887.2	663.6	861.8	889.5	1011.6	1193.6	1198.3	1214.4	1290.4
55°	1223.6	1018.5	822.7	610.7	744.3	804.2	914.9	1117.6	1126.8	1143.0	1212.0
57.5°	1094.6	848.0	808.8	548.4	636.0	693.6	829.6	1043.8	1048.4	1062.3	1129.1
60°	956.3	613.0	742.0	481.6	541.5	585.3	751.2	956.3	972.4	981.6	1039.3
62.5°	799.6	444.7	672.9	435.5	495.4	504.6	686.7	873.3	894.1	901.0	935.5
65°	569.2	373.3	571.4	396.3	447.0	449.4	617.6	788.1	806.5	818.1	843.3
67.5°	384.8	304.2	435.5	359.5	410.2	412.5	550.8	689.0	714.4	723.5	739.7
70°	267.3	202.7	322.6	320.3	368.7	373.3	479.3	599.1	622.2	629.1	638.3
72.5°	195.9	163.6	267.3	288.0	324.9	329.5	405.6	497.8	520.8	527.7	532.3
75°	149.8	172.8	216.6	251.1	276.5	278.8	331.8	405.6	421.7	426.3	428.6
77.5°	119.8	161.3	159.0	202.7	225.9	221.2	260.4	313.4	327.2	327.2	327.2
80°	89.9	126.7	119.8	145.2	165.9	161.3	186.6	223.5	228.1	232.7	230.4
82.5°	66.8	80.7	80.7	92.2	110.6	106.0	124.4	145.2	145.2	145.2	149.8
85°	41.5	46.0	36.9	48.4	62.2	59.9	69.2	78.3	80.7	80.7	76.0
87.5°	25.4	20.8	11.5	18.4	27.6	27.6	32.3	34.5	32.3	32.3	32.3
90°	4.5	3.1	1.7	3.1	4.5	4.9	7.7	11.4	13.3	11.8	8.8
92.5°	30.8	18.8	7.0	18.8	30.8	33.7	47.4	65.7	74.7	65.5	47.1
95°	60.3	38.5	16.7	38.5	60.3	65.7	116.6	184.5	218.5	195.0	148.0
97.5°	67.3	48.2	29.0	48.2	67.3	72.1	157.1	270.3	327.0	312.2	282.5
100°	73.2	55.8	38.5	55.8	73.2	77.5	171.8	297.5	360.3	361.5	363.6
102.5°	78.9	62.7	46.5	62.7	78.9	82.9	178.6	306.1	369.8	388.8	426.6
105°	87.6	73.9	60.1	73.9	87.6	91.0	183.7	307.0	368.8	411.3	496.2
107.5°	99.7	86.9	74.0	86.9	99.7	102.9	184.5	293.4	347.8	407.0	525.5
110°	106.6	95.1	83.5	95.1	106.6	109.5	183.1	281.2	330.3	396.5	529.0



TEST NUMBER: P934044

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	114.8	103.8	92.8	103.8	114.8	117.6	183.2	270.7	314.5	382.2	517.7
115°	127.1	116.9	106.7	116.9	127.1	129.6	184.9	258.6	295.4	360.7	491.3
117.5°	139.0	129.8	120.5	129.8	139.0	141.4	188.4	251.0	282.3	341.2	459.0
120°	146.0	137.3	128.5	137.3	146.0	148.2	191.1	248.4	277.0	330.8	438.5
122.5°	154.0	145.2	136.4	145.2	154.0	156.2	195.2	247.0	273.0	321.5	418.5
125°	164.5	156.5	148.5	156.5	164.5	166.5	200.6	246.0	268.7	309.8	392.2
127.5°	174.4	166.3	158.3	166.3	174.4	176.4	206.0	245.3	265.0	300.4	371.1
130°	180.9	172.2	163.5	172.2	180.9	183.0	209.9	245.7	263.6	295.1	358.1
132.5°	186.3	177.6	168.9	177.6	186.3	188.4	213.1	246.0	262.4	290.6	346.9
135°	192.8	184.9	176.9	184.9	192.8	194.8	216.6	245.7	260.3	283.9	331.1
137.5°	200.8	193.0	185.1	193.0	200.8	202.8	221.8	247.2	260.0	279.9	319.8
140°	206.4	199.2	191.9	199.2	206.4	208.2	225.1	247.5	258.7	276.0	310.4
142.5°	210.6	203.9	197.3	203.9	210.6	212.3	227.8	248.4	258.7	273.9	304.2
145°	216.9	211.1	205.3	211.1	216.9	218.4	231.3	248.4	257.0	269.4	294.1
147.5°	224.6	219.0	213.3	219.0	224.6	226.0	236.3	250.1	257.0	266.8	286.2
150°	228.7	223.7	218.5	223.7	228.7	230.0	239.0	251.0	257.0	265.2	281.7
152.5°	231.7	227.8	223.9	227.8	231.7	232.7	240.8	251.6	257.0	264.0	278.0
155°	237.7	234.8	232.0	234.8	237.7	238.4	244.6	252.9	257.0	262.6	273.7
157.5°	243.5	240.7	237.9	240.7	243.5	244.2	248.4	254.1	257.0	261.3	270.0
160°	246.3	244.1	241.9	244.1	246.3	246.8	250.2	254.7	257.0	260.7	268.2
162.5°	249.1	247.6	245.9	247.6	249.1	249.6	252.0	255.3	257.0	260.1	266.4
165°	253.3	251.8	250.4	251.8	253.3	253.7	254.8	256.3	257.0	259.3	263.7
167.5°	255.8	255.1	254.4	255.1	255.8	255.9	256.9	258.1	258.7	260.2	263.2
170°	258.4	257.7	257.0	257.7	258.4	258.6	258.6	258.7	258.7	260.2	263.2
172.5°	258.7	258.6	258.4	258.6	258.7	258.7	258.7	258.7	258.7	259.9	262.2
175°	260.3	260.3	260.3	260.3	260.3	260.3	259.8	259.1	258.7	259.4	260.9
177.5°	260.3	260.3	260.3	260.3	260.3	260.3	259.9	259.3	259.1	259.7	260.8
180°	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3



TEST NUMBER: P934044

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7
2.5°	2350.4	2343.5	2352.7	2327.4	2352.7	2343.5	2350.4	2366.5	2352.7	2361.9	2371.1
5°	2062.4	2050.8	2014.0	1984.1	2014.0	2050.8	2062.4	2110.8	2133.8	2175.3	2230.6
7.5°	1843.5	1834.2	1825.0	1806.6	1825.0	1834.2	1843.5	1857.3	1880.4	1917.2	1958.7
10°	1795.1	1797.3	1811.2	1808.9	1811.2	1797.3	1795.1	1790.5	1783.6	1790.5	1815.8
12.5°	1919.5	1940.3	2016.3	2011.7	2016.3	1940.3	1919.5	1827.3	1765.1	1753.6	1758.2
15°	2062.4	2069.2	2085.4	2087.7	2085.4	2069.2	2062.4	2025.5	1838.9	1758.2	1732.8
17.5°	2076.2	2078.5	2090.0	2090.0	2090.0	2078.5	2076.2	2060.1	1997.8	1889.5	1746.7
20°	2064.7	2069.2	2092.4	2097.0	2092.4	2069.2	2064.7	2044.0	2009.3	1970.2	1861.9
22.5°	2060.1	2069.2	2087.7	2085.4	2087.7	2069.2	2060.1	2027.8	1997.8	1970.2	1926.4
25°	2037.0	2037.0	2039.3	2041.6	2039.3	2037.0	2037.0	2011.7	1951.8	1944.8	1919.5
27.5°	1988.7	1993.2	2007.1	2004.8	2007.1	1993.2	1988.7	1979.4	1914.9	1908.0	1889.5
30°	1944.8	1940.3	1928.7	1919.5	1928.7	1940.3	1944.8	1931.0	1866.5	1848.1	1852.6
32.5°	1871.1	1859.6	1848.1	1841.1	1848.1	1859.6	1871.1	1866.5	1818.1	1792.7	1797.3
35°	1783.6	1785.8	1783.6	1776.6	1783.6	1785.8	1783.6	1788.2	1758.2	1735.2	1732.8
37.5°	1721.3	1725.9	1723.7	1714.4	1723.7	1725.9	1721.3	1716.7	1675.3	1668.4	1672.9
40°	1656.8	1659.1	1656.8	1649.9	1656.8	1659.1	1656.8	1647.6	1590.0	1592.2	1608.4
42.5°	1594.6	1592.2	1585.4	1580.7	1585.4	1592.2	1594.6	1580.7	1507.0	1500.1	1530.1
45°	1523.2	1525.4	1511.7	1504.7	1511.7	1525.4	1523.2	1513.9	1437.9	1419.5	1440.2
47.5°	1451.8	1451.8	1440.2	1433.3	1440.2	1451.8	1451.8	1440.2	1359.6	1341.1	1352.6
50°	1375.7	1373.4	1357.2	1355.0	1357.2	1373.4	1375.7	1368.7	1283.5	1267.4	1267.4
52.5°	1288.1	1288.1	1290.4	1295.1	1290.4	1288.1	1288.1	1290.4	1214.4	1198.3	1193.6
55°	1212.0	1214.4	1230.5	1235.1	1230.5	1214.4	1212.0	1212.0	1143.0	1126.8	1117.6
57.5°	1133.7	1133.7	1145.2	1145.2	1145.2	1133.7	1133.7	1129.1	1062.3	1048.4	1043.8
60°	1043.8	1048.4	1057.7	1055.4	1057.7	1048.4	1043.8	1039.3	981.6	972.4	956.3
62.5°	949.4	954.0	956.3	951.7	956.3	954.0	949.4	935.5	901.0	894.1	873.3
65°	850.3	854.9	857.2	852.6	857.2	854.9	850.3	843.3	818.1	806.5	788.1
67.5°	748.9	746.6	744.3	753.5	744.3	746.6	748.9	739.7	723.5	714.4	689.0
70°	645.2	645.2	642.9	647.5	642.9	645.2	645.2	638.3	629.1	622.2	599.1
72.5°	534.6	532.3	541.5	534.6	541.5	532.3	534.6	532.3	527.7	520.8	497.8
75°	426.3	430.9	426.3	433.2	426.3	430.9	426.3	428.6	426.3	421.7	405.6
77.5°	324.9	329.5	324.9	324.9	324.9	329.5	324.9	327.2	327.2	327.2	313.4
80°	230.4	228.1	228.1	225.9	228.1	228.1	230.4	230.4	232.7	228.1	223.5
82.5°	147.5	145.2	145.2	149.8	145.2	145.2	147.5	149.8	145.2	145.2	145.2
85°	80.7	82.9	78.3	78.3	78.3	82.9	80.7	76.0	80.7	80.7	78.3
87.5°	30.0	27.6	27.6	27.6	27.6	27.6	30.0	32.3	32.3	32.3	34.5
90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.8	11.8	13.3	11.4
92.5°	33.2	31.9	26.6	21.3	26.6	31.9	33.2	47.1	65.5	74.7	65.7
95°	112.7	108.7	92.7	76.7	92.7	108.7	112.7	148.0	195.0	218.5	184.5
97.5°	260.1	252.5	222.0	191.6	222.0	252.5	260.1	282.5	312.2	327.0	270.3
100°	365.3	356.2	319.9	283.7	319.9	356.2	365.3	363.6	361.5	360.3	297.5
102.5°	455.0	447.3	416.2	385.2	416.2	447.3	455.0	426.6	388.8	369.8	306.1
105°	559.8	555.7	539.0	522.3	539.0	555.7	559.8	496.2	411.3	368.8	307.0
107.5°	614.3	615.4	619.4	623.4	619.4	615.4	614.3	525.5	407.0	347.8	293.4
110°	628.3	632.7	650.0	667.5	650.0	632.7	628.3	529.0	396.5	330.3	281.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	619.4	626.1	652.8	679.5	652.8	626.1	619.4	517.7	382.2	314.5	270.7
115°	589.2	598.5	635.5	672.5	635.5	598.5	589.2	491.3	360.7	295.4	258.6
117.5°	547.5	557.8	598.8	639.9	598.8	557.8	547.5	459.0	341.2	282.3	251.0
120°	519.3	529.2	569.2	609.1	569.2	529.2	519.3	438.5	330.8	277.0	248.4
122.5°	491.2	501.1	540.4	579.7	540.4	501.1	491.2	418.5	321.5	273.0	247.0
125°	454.0	463.1	499.3	535.6	499.3	463.1	454.0	392.2	309.8	268.7	246.0
127.5°	424.2	431.8	462.4	493.0	462.4	431.8	424.2	371.1	300.4	265.0	245.3
130°	405.2	412.3	440.6	468.8	440.6	412.3	405.2	358.1	295.1	263.6	245.7
132.5°	389.2	395.6	420.8	446.1	420.8	395.6	389.2	346.9	290.6	262.4	246.0
135°	366.5	371.9	393.7	415.5	393.7	371.9	366.5	331.1	283.9	260.3	245.7
137.5°	349.7	354.1	372.0	389.9	372.0	354.1	349.7	319.8	279.9	260.0	247.2
140°	336.3	340.4	357.1	373.8	357.1	340.4	336.3	310.4	276.0	258.7	247.5
142.5°	326.8	330.4	344.8	359.1	344.8	330.4	326.8	304.2	273.9	258.7	248.4
145°	312.7	315.4	326.3	337.1	326.3	315.4	312.7	294.1	269.4	257.0	248.4
147.5°	300.8	303.0	312.0	321.1	312.0	303.0	300.8	286.2	266.8	257.0	250.1
150°	294.0	295.8	303.1	310.4	303.1	295.8	294.0	281.7	265.2	257.0	251.0
152.5°	288.6	290.0	295.4	300.9	295.4	290.0	288.6	278.0	264.0	257.0	251.6
155°	282.1	283.0	286.6	290.3	286.6	283.0	282.1	273.7	262.6	257.0	252.9
157.5°	276.5	277.1	279.7	282.3	279.7	277.1	276.5	270.0	261.3	257.0	254.1
160°	273.7	274.1	275.6	277.0	275.6	274.1	273.7	268.2	260.7	257.0	254.7
162.5°	271.1	271.5	272.9	274.3	272.9	271.5	271.1	266.4	260.1	257.0	255.3
165°	267.1	267.5	268.9	270.4	268.9	267.5	267.1	263.7	259.3	257.0	256.3
167.5°	265.4	265.5	266.1	266.8	266.1	265.5	265.4	263.2	260.2	258.7	258.1
170°	265.4	265.4	265.4	265.4	265.4	265.4	265.4	263.2	260.2	258.7	258.7
172.5°	264.0	263.8	263.3	262.7	263.3	263.8	264.0	262.2	259.9	258.7	258.7
175°	262.0	262.0	262.0	262.0	262.0	262.0	262.0	260.9	259.4	258.7	259.1
177.5°	261.7	261.5	260.9	260.3	260.9	261.5	261.7	260.8	259.7	259.1	259.3
180°	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2435.7	2435.7	2435.7	2435.7	2435.7
2.5°	2405.7	2417.3	2424.2	2433.4	2456.4
5°	2313.5	2357.3	2371.1	2405.7	2447.2
7.5°	2110.8	2244.4	2281.2	2364.3	2428.8
10°	1914.9	2048.6	2113.0	2309.0	2405.7
12.5°	1815.8	1894.1	1937.9	2212.2	2373.4
15°	1753.6	1808.9	1841.1	2083.1	2336.6
17.5°	1705.2	1744.4	1767.4	1956.4	2285.9
20°	1675.3	1693.7	1714.4	1864.2	2228.3
22.5°	1654.5	1643.0	1659.1	1799.7	2149.9
25°	1640.6	1596.9	1615.4	1749.0	2057.7
27.5°	1652.2	1555.4	1562.3	1702.9	1960.9
30°	1654.5	1504.7	1507.0	1654.5	1852.6
32.5°	1638.4	1451.8	1454.0	1594.6	1730.6
35°	1599.2	1389.5	1387.2	1525.4	1564.6
37.5°	1546.2	1322.7	1322.7	1449.4	1382.6
40°	1481.7	1255.8	1262.8	1350.3	1221.3
42.5°	1403.4	1184.4	1193.6	1219.0	1101.5
45°	1318.1	1115.3	1122.2	1030.0	1009.3
47.5°	1223.6	1043.8	1046.2	854.9	979.4
50°	1110.7	970.1	960.9	732.8	977.0
52.5°	1011.6	889.5	861.8	663.6	887.2
55°	914.9	804.2	744.3	610.7	822.7
57.5°	829.6	693.6	636.0	548.4	808.8
60°	751.2	585.3	541.5	481.6	742.0
62.5°	686.7	504.6	495.4	435.5	672.9
65°	617.6	449.4	447.0	396.3	571.4
67.5°	550.8	412.5	410.2	359.5	435.5
70°	479.3	373.3	368.7	320.3	322.6
72.5°	405.6	329.5	324.9	288.0	267.3
75°	331.8	278.8	276.5	251.1	216.6
77.5°	260.4	221.2	225.9	202.7	159.0
80°	186.6	161.3	165.9	145.2	119.8
82.5°	124.4	106.0	110.6	92.2	80.7
85°	69.2	59.9	62.2	48.4	36.9
87.5°	32.3	27.6	27.6	18.4	11.5
90°	7.7	4.9	4.5	3.1	1.7
92.5°	47.4	33.7	30.8	18.8	7.0
95°	116.6	65.7	60.3	38.5	16.7
97.5°	157.1	72.1	67.3	48.2	29.0
100°	171.8	77.5	73.2	55.8	38.5
102.5°	178.6	82.9	78.9	62.7	46.5
105°	183.7	91.0	87.6	73.9	60.1
107.5°	184.5	102.9	99.7	86.9	74.0
110°	183.1	109.5	106.6	95.1	83.5



TEST NUMBER: P934044

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	183.2	117.6	114.8	103.8	92.8
115°	184.9	129.6	127.1	116.9	106.7
117.5°	188.4	141.4	139.0	129.8	120.5
120°	191.1	148.2	146.0	137.3	128.5
122.5°	195.2	156.2	154.0	145.2	136.4
125°	200.6	166.5	164.5	156.5	148.5
127.5°	206.0	176.4	174.4	166.3	158.3
130°	209.9	183.0	180.9	172.2	163.5
132.5°	213.1	188.4	186.3	177.6	168.9
135°	216.6	194.8	192.8	184.9	176.9
137.5°	221.8	202.8	200.8	193.0	185.1
140°	225.1	208.2	206.4	199.2	191.9
142.5°	227.8	212.3	210.6	203.9	197.3
145°	231.3	218.4	216.9	211.1	205.3
147.5°	236.3	226.0	224.6	219.0	213.3
150°	239.0	230.0	228.7	223.7	218.5
152.5°	240.8	232.7	231.7	227.8	223.9
155°	244.6	238.4	237.7	234.8	232.0
157.5°	248.4	244.2	243.5	240.7	237.9
160°	250.2	246.8	246.3	244.1	241.9
162.5°	252.0	249.6	249.1	247.6	245.9
165°	254.8	253.7	253.3	251.8	250.4
167.5°	256.9	255.9	255.8	255.1	254.4
170°	258.6	258.6	258.4	257.7	257.0
172.5°	258.7	258.7	258.7	258.6	258.4
175°	259.8	260.3	260.3	260.3	260.3
177.5°	259.9	260.3	260.3	260.3	260.3
180°	260.3	260.3	260.3	260.3	260.3



TEST NUMBER: P934044
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.57	16.77	16.23	17.44	18.23	18.40	19.60	19.07	20.28	21.07
	3H	16.07	17.15	16.74	17.83	18.66	19.78	20.85	20.45	21.54	22.36
	4H	16.27	17.29	16.97	17.99	18.82	20.24	21.25	20.93	21.95	22.79
	6H	16.41	17.35	17.12	18.06	18.91	20.54	21.48	21.25	22.19	23.04
	8H	16.42	17.32	17.14	18.05	18.90	20.63	21.52	21.35	22.25	23.10
	12H	16.40	17.26	17.13	17.98	18.86	20.68	21.53	21.40	22.25	23.13
4H	2H	16.64	17.66	17.34	18.36	19.19	18.85	19.87	19.55	20.57	21.40
	3H	17.70	18.55	18.41	19.28	20.14	20.39	21.24	21.10	21.98	22.83
	4H	17.99	18.76	18.72	19.50	20.38	20.94	21.70	21.66	22.44	23.33
	6H	18.13	18.80	18.88	19.56	20.46	21.32	21.99	22.07	22.75	23.64
	8H	18.15	18.77	18.90	19.53	20.43	21.44	22.06	22.19	22.82	23.72
	12H	18.13	18.69	18.90	19.47	20.38	21.51	22.07	22.28	22.86	23.76
8H	4H	18.47	19.09	19.22	19.85	20.76	21.09	21.71	21.84	22.47	23.37
	6H	18.75	19.26	19.53	20.06	20.97	21.54	22.05	22.32	22.86	23.76
	8H	18.79	19.25	19.58	20.05	20.98	21.70	22.15	22.49	22.96	23.88
	12H	18.79	19.20	19.59	19.99	20.97	21.81	22.22	22.61	23.01	23.99
12H	4H	18.49	19.05	19.26	19.84	20.75	21.07	21.63	21.84	22.41	23.32
	6H	18.81	19.27	19.60	20.07	20.99	21.54	22.00	22.33	22.80	23.72
	8H	18.89	19.30	19.69	20.09	21.07	21.72	22.12	22.51	22.92	23.90