

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: P934065

Luminaire Tested: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934065
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-93050-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

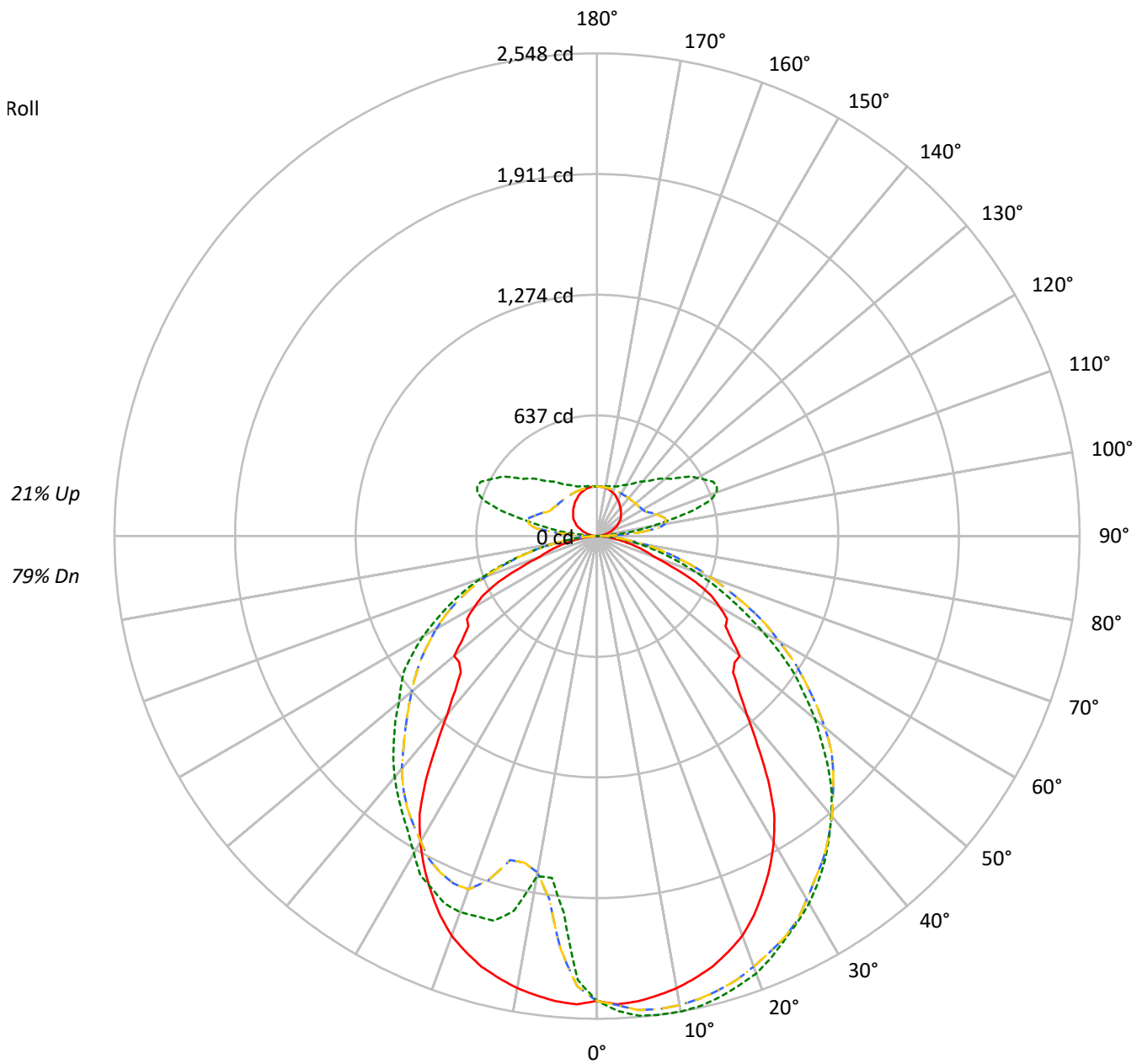
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8061.1 lumens
Efficiency: N/A
Efficacy: 103.9 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°	11382	11382	11382	11382
5°	11467	11490	11467	9034
10°	11390	11317	11390	8091
15°	11266	11073	11266	9246
20°	11031	10782	11031	9265
25°	10548	10358	10548	9069
30°	9925	10007	9925	8638
35°	8848	9562	8848	8164
40°	7373	9038	7373	7806
45°	6587	8425	6587	7394
50°	6998	7693	6998	6981
55°	6585	6906	6585	6742
60°	6787	5865	6787	6175
65°	6154	4848	6154	5419
70°	4261	3864	4261	4542
75°	3737	2856	3737	3420
80°	3011	1888	3011	2057
85°	1733	1000	1733	850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10096 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	2.7
10°-20°	628.7	7.8
20°-30°	971.9	12.1
30°-40°	1160.3	14.4
40°-50°	1167.1	14.5
50°-60°	1015.5	12.6
60°-70°	720.0	8.9
70°-80°	380.9	4.7
80°-90°	95.9	1.2
90°-100°	127.8	1.6
100°-110°	336.0	4.2
110°-120°	348.3	4.3
120°-130°	279.4	3.5
130°-140°	219.2	2.7
140°-150°	168.3	2.1
150°-160°	121.2	1.5
160°-170°	74.2	0.9
170°-180°	25.1	0.3
0°-30°	1822.1	22.6
0°-40°	2982.3	37.0
0°-60°	5164.9	64.1
0°-90°	6361.6	78.9
90°-120°	812.1	10.1
90°-150°	1479.0	18.3
90°-180°	1699.0	21.1
0°-180°	8061.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2453	2453	2453	2453	2453	
5°	2465	2541	2465	1998	2465	234
15°	2353	2518	2353	2103	2353	662
25°	2072	2349	2072	2056	2072	952
35°	1576	2096	1576	1789	1576	975
45°	1016	1727	1016	1516	1016	814
55°	829	1274	829	1244	829	761
65°	576	768	576	859	576	550
75°	218	364	218	436	218	229
85°	37	93	37	79	37	50
90°	2	7	2	7	2	3
95°	17	77	17	77	17	19
105°	60	526	60	526	60	64
115°	108	677	108	677	108	106
125°	150	540	150	540	150	133
135°	178	418	178	418	178	138
145°	207	340	207	340	207	130
155°	234	292	234	292	234	107
165°	252	272	252	272	252	71
175°	262	264	262	264	262	25
180°	262	262	262	262	262	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2
2.5°	2474.1	2474.1	2488.0	2492.6	2492.6	2485.7	2478.7	2485.7	2506.6	2513.5	2511.2
5°	2464.8	2483.3	2508.9	2513.5	2518.2	2515.8	2511.2	2515.8	2539.1	2543.7	2546.0
7.5°	2446.2	2481.0	2513.5	2520.5	2527.5	2520.5	2518.2	2522.8	2546.0	2550.7	2550.7
10°	2423.0	2471.7	2508.9	2513.5	2520.5	2513.5	2513.5	2522.8	2546.0	2550.7	2553.0
12.5°	2390.5	2457.8	2492.6	2497.3	2506.6	2504.2	2501.9	2511.2	2534.4	2539.1	2539.1
15°	2353.4	2432.3	2464.8	2469.4	2485.7	2481.0	2481.0	2490.3	2515.8	2522.8	2520.5
17.5°	2302.3	2399.8	2436.9	2443.9	2455.5	2453.2	2455.5	2464.8	2488.0	2492.6	2495.0
20°	2244.3	2355.7	2399.8	2406.7	2418.4	2418.4	2418.4	2430.0	2453.2	2462.5	2462.5
22.5°	2165.4	2309.3	2355.7	2360.3	2374.2	2374.2	2378.9	2395.1	2416.0	2418.4	2418.4
25°	2072.5	2258.2	2297.6	2311.6	2325.6	2332.5	2339.4	2348.8	2355.7	2353.4	2355.7
27.5°	1975.0	2193.2	2244.3	2253.5	2272.2	2279.1	2288.4	2290.7	2293.1	2300.0	2295.4
30°	1866.0	2102.7	2179.3	2188.6	2218.8	2223.4	2214.1	2218.8	2230.4	2235.0	2239.7
32.5°	1743.0	1968.1	2112.1	2132.9	2160.7	2146.8	2144.5	2151.5	2170.0	2170.0	2174.7
35°	1575.8	1863.7	2049.3	2067.9	2088.8	2072.5	2081.8	2084.1	2095.8	2102.7	2100.4
37.5°	1392.5	1773.1	1984.3	1998.3	2014.6	1993.7	2007.5	2014.6	2023.8	2019.2	2019.2
40°	1230.1	1631.6	1907.8	1917.1	1930.9	1914.7	1928.7	1933.3	1938.0	1933.3	1930.9
42.5°	1109.4	1476.1	1826.5	1838.1	1828.9	1840.5	1845.1	1854.4	1847.4	1838.1	1838.1
45°	1016.5	1434.3	1738.3	1752.3	1738.3	1757.0	1763.9	1763.9	1743.0	1738.3	1736.0
47.5°	986.4	1350.7	1650.2	1650.2	1643.2	1666.4	1678.0	1661.7	1640.8	1633.9	1633.9
50°	984.0	1257.9	1529.5	1520.2	1552.7	1580.5	1568.9	1552.7	1536.4	1510.9	1510.9
52.5°	893.6	1144.2	1373.9	1408.8	1459.8	1476.1	1457.5	1441.3	1413.4	1401.9	1392.5
55°	828.6	1025.9	1232.4	1302.0	1355.4	1376.3	1341.4	1325.3	1283.5	1276.5	1271.9
57.5°	814.6	854.1	1102.4	1190.6	1255.6	1253.2	1232.4	1202.2	1167.4	1160.4	1158.1
60°	747.3	617.4	963.1	1067.6	1134.9	1127.9	1109.4	1081.5	1049.0	1044.4	1039.7
62.5°	677.7	447.9	805.3	923.7	1018.8	1016.5	1000.3	958.5	935.3	923.7	914.4
65°	575.6	376.0	573.3	768.2	905.2	909.7	875.0	844.8	819.3	805.3	803.0
67.5°	438.6	306.4	387.6	640.5	796.1	791.4	747.3	733.4	700.9	693.9	680.0
70°	324.9	204.2	269.2	519.9	689.3	677.7	642.9	626.7	596.5	580.2	570.9
72.5°	269.2	164.8	197.3	403.8	580.2	566.3	536.1	517.6	492.0	478.1	468.8
75°	218.2	174.1	150.9	299.4	471.1	461.9	434.0	415.4	394.5	376.0	378.3
77.5°	160.1	162.5	120.7	220.5	373.6	359.8	343.5	320.3	311.0	292.5	292.5
80°	120.7	127.6	90.6	150.9	269.2	269.2	255.3	239.1	222.8	213.5	213.5
82.5°	81.2	81.2	67.3	95.1	183.4	176.4	167.1	162.5	153.2	148.5	148.5
85°	37.2	46.4	41.8	58.1	99.8	104.4	104.4	99.8	97.5	92.8	95.1
87.5°	11.6	20.9	25.6	32.5	51.0	53.4	55.7	55.7	55.7	58.1	58.1
90°	1.8	3.2	4.6	4.9	7.7	11.5	13.4	11.9	8.9	6.7	6.7
92.5°	7.0	19.0	31.0	34.0	47.8	66.1	75.3	66.0	47.4	33.5	32.1
95°	16.9	38.7	60.7	66.1	117.4	185.8	220.1	196.4	149.0	113.5	109.4
97.5°	29.2	48.6	67.8	72.6	158.2	272.3	329.4	314.4	284.5	262.0	254.4
100°	38.7	56.2	73.7	78.1	173.0	299.6	362.9	364.1	366.3	367.9	358.8
102.5°	46.8	63.1	79.5	83.5	179.9	308.3	372.5	391.5	429.7	458.3	450.5
105°	60.5	74.4	88.3	91.7	185.0	309.2	371.4	414.2	499.8	563.9	559.7
107.5°	74.6	87.5	100.4	103.6	185.8	295.5	350.3	409.9	529.3	618.8	619.8
110°	84.1	95.7	107.4	110.3	184.4	283.3	332.7	399.4	532.8	632.8	637.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	93.5	104.5	115.6	118.4	184.5	272.6	316.7	385.0	521.4	623.9	630.6
115°	107.5	117.7	128.0	130.5	186.2	260.4	297.5	363.3	494.8	593.5	602.8
117.5°	121.4	130.7	140.0	142.4	189.7	252.8	284.3	343.7	462.3	551.4	561.8
120°	129.5	138.2	147.0	149.2	192.5	250.2	279.0	333.2	441.7	523.0	533.0
122.5°	137.4	146.2	155.1	157.3	196.6	248.8	275.0	323.8	421.5	494.7	504.7
125°	149.6	157.7	165.6	167.7	202.0	247.8	270.6	312.1	395.1	457.2	466.4
127.5°	159.4	167.5	175.7	177.7	207.5	247.1	266.9	302.6	373.8	427.2	434.9
130°	164.7	173.5	182.2	184.4	211.4	247.5	265.5	297.2	360.6	408.1	415.3
132.5°	170.1	178.9	187.6	189.8	214.7	247.8	264.3	292.6	349.4	392.0	398.4
135°	178.2	186.2	194.2	196.2	218.2	247.5	262.2	286.0	333.5	369.1	374.6
137.5°	186.5	194.4	202.3	204.3	223.4	249.0	261.8	281.9	322.1	352.2	356.7
140°	193.3	200.6	207.9	209.7	226.7	249.3	260.6	278.0	312.7	338.7	342.9
142.5°	198.7	205.3	212.1	213.8	229.4	250.2	260.6	275.9	306.4	329.2	332.8
145°	206.8	212.6	218.4	219.9	232.9	250.2	258.8	271.3	296.3	315.0	317.7
147.5°	214.8	220.5	226.3	227.7	238.0	251.9	258.8	268.7	288.3	302.9	305.2
150°	220.1	225.3	230.4	231.7	240.7	252.8	258.8	267.1	283.7	296.1	297.9
152.5°	225.5	229.4	233.4	234.3	242.5	253.4	258.8	265.9	280.0	290.6	292.0
155°	233.6	236.5	239.4	240.1	246.4	254.7	258.8	264.5	275.7	284.1	285.0
157.5°	239.6	242.4	245.2	245.9	250.2	255.9	258.8	263.2	271.9	278.5	279.1
160°	243.6	245.8	248.0	248.6	252.0	256.6	258.8	262.6	270.1	275.7	276.1
162.5°	247.7	249.3	250.9	251.4	253.8	257.2	258.8	262.0	268.3	273.1	273.4
165°	252.2	253.7	255.1	255.5	256.6	258.1	258.8	261.1	265.6	269.0	269.4
167.5°	256.2	256.9	257.6	257.8	258.7	260.0	260.6	262.1	265.1	267.3	267.4
170°	258.8	259.5	260.2	260.4	260.5	260.6	260.6	262.1	265.1	267.3	267.3
172.5°	260.2	260.4	260.6	260.6	260.6	260.6	260.6	261.7	264.1	265.9	265.7
175°	262.2	262.2	262.2	262.2	261.6	260.9	260.6	261.3	262.8	263.9	263.9
177.5°	262.2	262.2	262.2	262.2	261.7	261.2	260.9	261.6	262.7	263.6	263.4
180°	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2
2.5°	2515.8	2508.9	2515.8	2511.2	2513.5	2506.6	2485.7	2478.7	2485.7	2492.6	2492.6
5°	2546.0	2541.4	2546.0	2546.0	2543.7	2539.1	2515.8	2511.2	2515.8	2518.2	2513.5
7.5°	2555.3	2548.3	2555.3	2550.7	2550.7	2546.0	2522.8	2518.2	2520.5	2527.5	2520.5
10°	2555.3	2548.3	2555.3	2553.0	2550.7	2546.0	2522.8	2513.5	2513.5	2520.5	2513.5
12.5°	2543.7	2539.1	2543.7	2539.1	2539.1	2534.4	2511.2	2501.9	2504.2	2506.6	2497.3
15°	2525.1	2518.2	2525.1	2520.5	2522.8	2515.8	2490.3	2481.0	2481.0	2485.7	2469.4
17.5°	2497.3	2488.0	2497.3	2495.0	2492.6	2488.0	2464.8	2455.5	2453.2	2455.5	2443.9
20°	2464.8	2457.8	2464.8	2462.5	2462.5	2453.2	2430.0	2418.4	2418.4	2418.4	2406.7
22.5°	2413.7	2406.7	2413.7	2418.4	2418.4	2416.0	2395.1	2378.9	2374.2	2374.2	2360.3
25°	2355.7	2348.8	2355.7	2355.7	2353.4	2355.7	2348.8	2339.4	2332.5	2325.6	2311.6
27.5°	2300.0	2295.4	2300.0	2295.4	2300.0	2293.1	2290.7	2288.4	2279.1	2272.2	2253.5
30°	2244.3	2239.7	2244.3	2239.7	2235.0	2230.4	2218.8	2214.1	2223.4	2218.8	2188.6
32.5°	2174.7	2170.0	2174.7	2174.7	2170.0	2170.0	2151.5	2144.5	2146.8	2160.7	2132.9
35°	2102.7	2095.8	2102.7	2100.4	2102.7	2095.8	2084.1	2081.8	2072.5	2088.8	2067.9
37.5°	2019.2	2012.2	2019.2	2019.2	2019.2	2023.8	2014.6	2007.5	1993.7	2014.6	1998.3
40°	1933.3	1924.0	1933.3	1930.9	1933.3	1938.0	1933.3	1928.7	1914.7	1930.9	1917.1
42.5°	1835.8	1833.5	1835.8	1838.1	1838.1	1847.4	1854.4	1845.1	1840.5	1828.9	1838.1
45°	1731.4	1726.7	1731.4	1736.0	1738.3	1743.0	1763.9	1763.9	1757.0	1738.3	1752.3
47.5°	1619.9	1608.3	1619.9	1633.9	1633.9	1640.8	1661.7	1678.0	1666.4	1643.2	1650.2
50°	1501.6	1503.9	1501.6	1510.9	1510.9	1536.4	1552.7	1568.9	1580.5	1552.7	1520.2
52.5°	1385.6	1383.2	1385.6	1392.5	1401.9	1413.4	1441.3	1457.5	1476.1	1459.8	1408.8
55°	1269.5	1274.2	1269.5	1271.9	1276.5	1283.5	1325.3	1341.4	1376.3	1355.4	1302.0
57.5°	1153.5	1146.5	1153.5	1158.1	1160.4	1167.4	1202.2	1232.4	1253.2	1255.6	1190.6
60°	1018.8	1009.6	1018.8	1039.7	1044.4	1049.0	1081.5	1109.4	1127.9	1134.9	1067.6
62.5°	900.5	884.3	900.5	914.4	923.7	935.3	958.5	1000.3	1016.5	1018.8	923.7
65°	775.2	768.2	775.2	803.0	805.3	819.3	844.8	875.0	909.7	905.2	768.2
67.5°	661.4	661.4	661.4	680.0	693.9	700.9	733.4	747.3	791.4	796.1	640.5
70°	557.0	554.7	557.0	570.9	580.2	596.5	626.7	642.9	677.7	689.3	519.9
72.5°	457.2	454.9	457.2	468.8	478.1	492.0	517.6	536.1	566.3	580.2	403.8
75°	369.1	364.4	369.1	378.3	376.0	394.5	415.4	434.0	461.9	471.1	299.4
77.5°	283.2	283.2	283.2	292.5	292.5	311.0	320.3	343.5	359.8	373.6	220.5
80°	211.2	208.9	211.2	213.5	213.5	222.8	239.1	255.3	269.2	269.2	150.9
82.5°	148.5	143.9	148.5	148.5	148.5	153.2	162.5	167.1	176.4	183.4	95.1
85°	92.8	92.8	92.8	95.1	92.8	97.5	99.8	104.4	104.4	99.8	58.1
87.5°	60.3	58.1	60.3	58.1	58.1	55.7	55.7	55.7	53.4	51.0	32.5
90°	6.7	6.7	6.7	6.7	6.7	8.9	11.9	13.4	11.5	7.7	4.9
92.5°	26.8	21.4	26.8	32.1	33.5	47.4	66.0	75.3	66.1	47.8	34.0
95°	93.4	77.2	93.4	109.4	113.5	149.0	196.4	220.1	185.8	117.4	66.1
97.5°	223.6	193.0	223.6	254.4	262.0	284.5	314.4	329.4	272.3	158.2	72.6
100°	322.2	285.7	322.2	358.8	367.9	366.3	364.1	362.9	299.6	173.0	78.1
102.5°	419.2	387.9	419.2	450.5	458.3	429.7	391.5	372.5	308.3	179.9	83.5
105°	542.9	526.0	542.9	559.7	563.9	499.8	414.2	371.4	309.2	185.0	91.7
107.5°	623.9	627.9	623.9	619.8	618.8	529.3	409.9	350.3	295.5	185.8	103.6
110°	654.7	672.3	654.7	637.2	632.8	532.8	399.4	332.7	283.3	184.4	110.3



TEST NUMBER: P934065

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	657.5	684.4	657.5	630.6	623.9	521.4	385.0	316.7	272.6	184.5	118.4
115°	640.1	677.3	640.1	602.8	593.5	494.8	363.3	297.5	260.4	186.2	130.5
117.5°	603.1	644.5	603.1	561.8	551.4	462.3	343.7	284.3	252.8	189.7	142.4
120°	573.3	613.5	573.3	533.0	523.0	441.7	333.2	279.0	250.2	192.5	149.2
122.5°	544.3	583.9	544.3	504.7	494.7	421.5	323.8	275.0	248.8	196.6	157.3
125°	502.9	539.5	502.9	466.4	457.2	395.1	312.1	270.6	247.8	202.0	167.7
127.5°	465.7	496.5	465.7	434.9	427.2	373.8	302.6	266.9	247.1	207.5	177.7
130°	443.7	472.2	443.7	415.3	408.1	360.6	297.2	265.5	247.5	211.4	184.4
132.5°	423.9	449.3	423.9	398.4	392.0	349.4	292.6	264.3	247.8	214.7	189.8
135°	396.6	418.5	396.6	374.6	369.1	333.5	286.0	262.2	247.5	218.2	196.2
137.5°	374.7	392.7	374.7	356.7	352.2	322.1	281.9	261.8	249.0	223.4	204.3
140°	359.7	376.5	359.7	342.9	338.7	312.7	278.0	260.6	249.3	226.7	209.7
142.5°	347.3	361.7	347.3	332.8	329.2	306.4	275.9	260.6	250.2	229.4	213.8
145°	328.7	339.6	328.7	317.7	315.0	296.3	271.3	258.8	250.2	232.9	219.9
147.5°	314.3	323.4	314.3	305.2	302.9	288.3	268.7	258.8	251.9	238.0	227.7
150°	305.3	312.7	305.3	297.9	296.1	283.7	267.1	258.8	252.8	240.7	231.7
152.5°	297.6	303.1	297.6	292.0	290.6	280.0	265.9	258.8	253.4	242.5	234.3
155°	288.7	292.4	288.7	285.0	284.1	275.7	264.5	258.8	254.7	246.4	240.1
157.5°	281.8	284.3	281.8	279.1	278.5	271.9	263.2	258.8	255.9	250.2	245.9
160°	277.5	279.0	277.5	276.1	275.7	270.1	262.6	258.8	256.6	252.0	248.6
162.5°	274.8	276.2	274.8	273.4	273.1	268.3	262.0	258.8	257.2	253.8	251.4
165°	270.9	272.4	270.9	269.4	269.0	265.6	261.1	258.8	258.1	256.6	255.5
167.5°	268.1	268.7	268.1	267.4	267.3	265.1	262.1	260.6	260.0	258.7	257.8
170°	267.3	267.3	267.3	267.3	267.3	265.1	262.1	260.6	260.6	260.5	260.4
172.5°	265.2	264.6	265.2	265.7	265.9	264.1	261.7	260.6	260.6	260.6	260.6
175°	263.9	263.9	263.9	263.9	263.9	262.8	261.3	260.6	260.9	261.6	262.2
177.5°	262.8	262.2	262.8	263.4	263.6	262.7	261.6	260.9	261.2	261.7	262.2
180°	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2



TEST NUMBER: P934065

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2
2.5°	2488.0	2474.1	2474.1	2450.9	2441.6	2434.7	2423.0	2388.2	2378.9	2369.7	2383.5
5°	2508.9	2483.3	2464.8	2423.0	2388.2	2374.2	2330.1	2246.6	2190.9	2149.1	2125.9
7.5°	2513.5	2481.0	2446.2	2381.2	2297.6	2260.6	2125.9	1972.8	1930.9	1893.9	1870.6
10°	2508.9	2471.7	2423.0	2325.6	2128.2	2063.3	1928.7	1828.9	1803.3	1796.4	1803.3
12.5°	2492.6	2457.8	2390.5	2228.1	1951.8	1907.8	1828.9	1770.8	1766.2	1777.8	1840.5
15°	2464.8	2432.3	2353.4	2098.1	1854.4	1821.9	1766.2	1745.3	1770.8	1852.1	2040.0
17.5°	2436.9	2399.8	2302.3	1970.5	1780.1	1757.0	1717.4	1759.2	1903.1	2012.2	2074.9
20°	2399.8	2355.7	2244.3	1877.6	1726.7	1705.8	1687.3	1875.3	1984.3	2023.8	2058.6
22.5°	2355.7	2309.3	2165.4	1812.6	1671.1	1654.8	1666.4	1940.3	1984.3	2012.2	2042.4
25°	2297.6	2258.2	2072.5	1761.5	1627.0	1608.3	1652.4	1933.3	1958.8	1965.8	2026.2
27.5°	2244.3	2193.2	1975.0	1715.1	1573.6	1566.6	1664.1	1903.1	1921.7	1928.7	1993.7
30°	2179.3	2102.7	1866.0	1666.4	1517.9	1515.5	1666.4	1866.0	1861.4	1879.9	1944.9
32.5°	2112.1	1968.1	1743.0	1606.1	1464.5	1462.2	1650.2	1810.3	1805.6	1831.2	1879.9
35°	2049.3	1863.7	1575.8	1536.4	1397.2	1399.5	1610.7	1745.3	1747.6	1770.8	1801.0
37.5°	1984.3	1773.1	1392.5	1459.8	1332.2	1332.2	1557.3	1684.9	1680.4	1687.3	1729.0
40°	1907.8	1631.6	1230.1	1360.0	1271.9	1264.8	1492.3	1619.9	1603.7	1601.4	1659.5
42.5°	1826.5	1476.1	1109.4	1227.8	1202.2	1192.9	1413.4	1541.1	1510.9	1517.9	1592.1
45°	1738.3	1434.3	1016.5	1037.4	1130.3	1123.3	1327.6	1450.5	1429.7	1448.2	1524.8
47.5°	1650.2	1350.7	986.4	861.1	1053.7	1051.3	1232.4	1362.3	1350.7	1369.4	1450.5
50°	1529.5	1257.9	984.0	738.0	967.8	977.1	1118.7	1276.5	1276.5	1292.8	1378.6
52.5°	1373.9	1144.2	893.6	668.4	868.0	895.9	1018.8	1202.2	1206.9	1223.1	1299.7
55°	1232.4	1025.9	828.6	615.1	749.6	810.0	921.4	1125.6	1134.9	1151.2	1220.8
57.5°	1102.4	854.1	814.6	552.4	640.5	698.6	835.5	1051.3	1056.0	1069.9	1137.2
60°	963.1	617.4	747.3	485.1	545.4	589.5	756.6	963.1	979.4	988.7	1046.8
62.5°	805.3	447.9	677.7	438.6	499.0	508.3	691.7	879.6	900.5	907.5	942.2
65°	573.3	376.0	575.6	399.2	450.2	452.6	622.0	793.7	812.3	823.9	849.4
67.5°	387.6	306.4	438.6	362.0	413.2	415.4	554.7	693.9	719.5	728.7	745.0
70°	269.2	204.2	324.9	322.6	371.3	376.0	482.7	603.4	626.7	633.6	642.9
72.5°	197.3	164.8	269.2	290.1	327.3	331.9	408.5	501.3	524.5	531.5	536.1
75°	150.9	174.1	218.2	253.0	278.5	280.8	334.2	408.5	424.7	429.4	431.7
77.5°	120.7	162.5	160.1	204.2	227.5	222.8	262.3	315.7	329.5	329.5	329.5
80°	90.6	127.6	120.7	146.2	167.1	162.5	188.0	225.1	229.8	234.4	232.0
82.5°	67.3	81.2	81.2	92.8	111.4	106.8	125.3	146.2	146.2	146.2	150.9
85°	41.8	46.4	37.2	48.7	62.6	60.3	69.6	78.9	81.2	81.2	76.6
87.5°	25.6	20.9	11.6	18.5	27.8	27.8	32.5	34.8	32.5	32.5	32.5
90°	4.6	3.2	1.8	3.2	4.6	4.9	7.7	11.5	13.4	11.9	8.9
92.5°	31.0	19.0	7.0	19.0	31.0	34.0	47.8	66.1	75.3	66.0	47.4
95°	60.7	38.7	16.9	38.7	60.7	66.1	117.4	185.8	220.1	196.4	149.0
97.5°	67.8	48.6	29.2	48.6	67.8	72.6	158.2	272.3	329.4	314.4	284.5
100°	73.7	56.2	38.7	56.2	73.7	78.1	173.0	299.6	362.9	364.1	366.3
102.5°	79.5	63.1	46.8	63.1	79.5	83.5	179.9	308.3	372.5	391.5	429.7
105°	88.3	74.4	60.5	74.4	88.3	91.7	185.0	309.2	371.4	414.2	499.8
107.5°	100.4	87.5	74.6	87.5	100.4	103.6	185.8	295.5	350.3	409.9	529.3
110°	107.4	95.7	84.1	95.7	107.4	110.3	184.4	283.3	332.7	399.4	532.8



TEST NUMBER: P934065

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	115.6	104.5	93.5	104.5	115.6	118.4	184.5	272.6	316.7	385.0	521.4
115°	128.0	117.7	107.5	117.7	128.0	130.5	186.2	260.4	297.5	363.3	494.8
117.5°	140.0	130.7	121.4	130.7	140.0	142.4	189.7	252.8	284.3	343.7	462.3
120°	147.0	138.2	129.5	138.2	147.0	149.2	192.5	250.2	279.0	333.2	441.7
122.5°	155.1	146.2	137.4	146.2	155.1	157.3	196.6	248.8	275.0	323.8	421.5
125°	165.6	157.7	149.6	157.7	165.6	167.7	202.0	247.8	270.6	312.1	395.1
127.5°	175.7	167.5	159.4	167.5	175.7	177.7	207.5	247.1	266.9	302.6	373.8
130°	182.2	173.5	164.7	173.5	182.2	184.4	211.4	247.5	265.5	297.2	360.6
132.5°	187.6	178.9	170.1	178.9	187.6	189.8	214.7	247.8	264.3	292.6	349.4
135°	194.2	186.2	178.2	186.2	194.2	196.2	218.2	247.5	262.2	286.0	333.5
137.5°	202.3	194.4	186.5	194.4	202.3	204.3	223.4	249.0	261.8	281.9	322.1
140°	207.9	200.6	193.3	200.6	207.9	209.7	226.7	249.3	260.6	278.0	312.7
142.5°	212.1	205.3	198.7	205.3	212.1	213.8	229.4	250.2	260.6	275.9	306.4
145°	218.4	212.6	206.8	212.6	218.4	219.9	232.9	250.2	258.8	271.3	296.3
147.5°	226.3	220.5	214.8	220.5	226.3	227.7	238.0	251.9	258.8	268.7	288.3
150°	230.4	225.3	220.1	225.3	230.4	231.7	240.7	252.8	258.8	267.1	283.7
152.5°	233.4	229.4	225.5	229.4	233.4	234.3	242.5	253.4	258.8	265.9	280.0
155°	239.4	236.5	233.6	236.5	239.4	240.1	246.4	254.7	258.8	264.5	275.7
157.5°	245.2	242.4	239.6	242.4	245.2	245.9	250.2	255.9	258.8	263.2	271.9
160°	248.0	245.8	243.6	245.8	248.0	248.6	252.0	256.6	258.8	262.6	270.1
162.5°	250.9	249.3	247.7	249.3	250.9	251.4	253.8	257.2	258.8	262.0	268.3
165°	255.1	253.7	252.2	253.7	255.1	255.5	256.6	258.1	258.8	261.1	265.6
167.5°	257.6	256.9	256.2	256.9	257.6	257.8	258.7	260.0	260.6	262.1	265.1
170°	260.2	259.5	258.8	259.5	260.2	260.4	260.5	260.6	260.6	262.1	265.1
172.5°	260.6	260.4	260.2	260.4	260.6	260.6	260.6	260.6	260.6	261.7	264.1
175°	262.2	262.2	262.2	262.2	262.2	262.2	261.6	260.9	260.6	261.3	262.8
177.5°	262.2	262.2	262.2	262.2	262.2	262.2	261.7	261.2	260.9	261.6	262.7
180°	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2



TEST NUMBER: P934065

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2
2.5°	2367.3	2360.3	2369.7	2344.1	2369.7	2360.3	2367.3	2383.5	2369.7	2378.9	2388.2
5°	2077.2	2065.6	2028.4	1998.3	2028.4	2065.6	2077.2	2125.9	2149.1	2190.9	2246.6
7.5°	1856.7	1847.4	1838.1	1819.6	1838.1	1847.4	1856.7	1870.6	1893.9	1930.9	1972.8
10°	1808.0	1810.3	1824.2	1821.9	1824.2	1810.3	1808.0	1803.3	1796.4	1803.3	1828.9
12.5°	1933.3	1954.2	2030.8	2026.2	2030.8	1954.2	1933.3	1840.5	1777.8	1766.2	1770.8
15°	2077.2	2084.1	2100.4	2102.7	2100.4	2084.1	2077.2	2040.0	1852.1	1770.8	1745.3
17.5°	2091.1	2093.4	2105.0	2105.0	2105.0	2093.4	2091.1	2074.9	2012.2	1903.1	1759.2
20°	2079.6	2084.1	2107.4	2112.1	2107.4	2084.1	2079.6	2058.6	2023.8	1984.3	1875.3
22.5°	2074.9	2084.1	2102.7	2100.4	2102.7	2084.1	2074.9	2042.4	2012.2	1984.3	1940.3
25°	2051.6	2051.6	2054.0	2056.3	2054.0	2051.6	2051.6	2026.2	1965.8	1958.8	1933.3
27.5°	2003.0	2007.5	2021.5	2019.2	2021.5	2007.5	2003.0	1993.7	1928.7	1921.7	1903.1
30°	1958.8	1954.2	1942.5	1933.3	1942.5	1954.2	1958.8	1944.9	1879.9	1861.4	1866.0
32.5°	1884.6	1873.0	1861.4	1854.4	1861.4	1873.0	1884.6	1879.9	1831.2	1805.6	1810.3
35°	1796.4	1798.7	1796.4	1789.4	1796.4	1798.7	1796.4	1801.0	1770.8	1747.6	1745.3
37.5°	1733.7	1738.3	1736.0	1726.7	1736.0	1738.3	1733.7	1729.0	1687.3	1680.4	1684.9
40°	1668.7	1671.1	1668.7	1661.7	1668.7	1671.1	1668.7	1659.5	1601.4	1603.7	1619.9
42.5°	1606.1	1603.7	1596.8	1592.1	1596.8	1603.7	1606.1	1592.1	1517.9	1510.9	1541.1
45°	1534.1	1536.4	1522.5	1515.5	1522.5	1536.4	1534.1	1524.8	1448.2	1429.7	1450.5
47.5°	1462.2	1462.2	1450.5	1443.6	1450.5	1462.2	1462.2	1450.5	1369.4	1350.7	1362.3
50°	1385.6	1383.2	1367.0	1364.7	1367.0	1383.2	1385.6	1378.6	1292.8	1276.5	1276.5
52.5°	1297.3	1297.3	1299.7	1304.4	1299.7	1297.3	1297.3	1299.7	1223.1	1206.9	1202.2
55°	1220.8	1223.1	1239.4	1244.0	1239.4	1223.1	1220.8	1220.8	1151.2	1134.9	1125.6
57.5°	1141.9	1141.9	1153.5	1153.5	1153.5	1141.9	1141.9	1137.2	1069.9	1056.0	1051.3
60°	1051.3	1056.0	1065.3	1063.0	1065.3	1056.0	1051.3	1046.8	988.7	979.4	963.1
62.5°	956.2	960.9	963.1	958.5	963.1	960.9	956.2	942.2	907.5	900.5	879.6
65°	856.4	861.1	863.4	858.7	863.4	861.1	856.4	849.4	823.9	812.3	793.7
67.5°	754.3	752.0	749.6	758.9	749.6	752.0	754.3	745.0	728.7	719.5	693.9
70°	649.9	649.9	647.5	652.1	647.5	649.9	649.9	642.9	633.6	626.7	603.4
72.5°	538.5	536.1	545.4	538.5	545.4	536.1	538.5	536.1	531.5	524.5	501.3
75°	429.4	434.0	429.4	436.3	429.4	434.0	429.4	431.7	429.4	424.7	408.5
77.5°	327.3	331.9	327.3	327.3	327.3	331.9	327.3	329.5	329.5	329.5	315.7
80°	232.0	229.8	229.8	227.5	229.8	229.8	232.0	232.0	234.4	229.8	225.1
82.5°	148.5	146.2	146.2	150.9	146.2	146.2	148.5	150.9	146.2	146.2	146.2
85°	81.2	83.5	78.9	78.9	78.9	83.5	81.2	76.6	81.2	81.2	78.9
87.5°	30.2	27.8	27.8	27.8	27.8	27.8	30.2	32.5	32.5	32.5	34.8
90°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.9	11.9	13.4	11.5
92.5°	33.5	32.1	26.8	21.4	26.8	32.1	33.5	47.4	66.0	75.3	66.1
95°	113.5	109.4	93.4	77.2	93.4	109.4	113.5	149.0	196.4	220.1	185.8
97.5°	262.0	254.4	223.6	193.0	223.6	254.4	262.0	284.5	314.4	329.4	272.3
100°	367.9	358.8	322.2	285.7	322.2	358.8	367.9	366.3	364.1	362.9	299.6
102.5°	458.3	450.5	419.2	387.9	419.2	450.5	458.3	429.7	391.5	372.5	308.3
105°	563.9	559.7	542.9	526.0	542.9	559.7	563.9	499.8	414.2	371.4	309.2
107.5°	618.8	619.8	623.9	627.9	623.9	619.8	618.8	529.3	409.9	350.3	295.5
110°	632.8	637.2	654.7	672.3	654.7	637.2	632.8	532.8	399.4	332.7	283.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	623.9	630.6	657.5	684.4	657.5	630.6	623.9	521.4	385.0	316.7	272.6
115°	593.5	602.8	640.1	677.3	640.1	602.8	593.5	494.8	363.3	297.5	260.4
117.5°	551.4	561.8	603.1	644.5	603.1	561.8	551.4	462.3	343.7	284.3	252.8
120°	523.0	533.0	573.3	613.5	573.3	533.0	523.0	441.7	333.2	279.0	250.2
122.5°	494.7	504.7	544.3	583.9	544.3	504.7	494.7	421.5	323.8	275.0	248.8
125°	457.2	466.4	502.9	539.5	502.9	466.4	457.2	395.1	312.1	270.6	247.8
127.5°	427.2	434.9	465.7	496.5	465.7	434.9	427.2	373.8	302.6	266.9	247.1
130°	408.1	415.3	443.7	472.2	443.7	415.3	408.1	360.6	297.2	265.5	247.5
132.5°	392.0	398.4	423.9	449.3	423.9	398.4	392.0	349.4	292.6	264.3	247.8
135°	369.1	374.6	396.6	418.5	396.6	374.6	369.1	333.5	286.0	262.2	247.5
137.5°	352.2	356.7	374.7	392.7	374.7	356.7	352.2	322.1	281.9	261.8	249.0
140°	338.7	342.9	359.7	376.5	359.7	342.9	338.7	312.7	278.0	260.6	249.3
142.5°	329.2	332.8	347.3	361.7	347.3	332.8	329.2	306.4	275.9	260.6	250.2
145°	315.0	317.7	328.7	339.6	328.7	317.7	315.0	296.3	271.3	258.8	250.2
147.5°	302.9	305.2	314.3	323.4	314.3	305.2	302.9	288.3	268.7	258.8	251.9
150°	296.1	297.9	305.3	312.7	305.3	297.9	296.1	283.7	267.1	258.8	252.8
152.5°	290.6	292.0	297.6	303.1	297.6	292.0	290.6	280.0	265.9	258.8	253.4
155°	284.1	285.0	288.7	292.4	288.7	285.0	284.1	275.7	264.5	258.8	254.7
157.5°	278.5	279.1	281.8	284.3	281.8	279.1	278.5	271.9	263.2	258.8	255.9
160°	275.7	276.1	277.5	279.0	277.5	276.1	275.7	270.1	262.6	258.8	256.6
162.5°	273.1	273.4	274.8	276.2	274.8	273.4	273.1	268.3	262.0	258.8	257.2
165°	269.0	269.4	270.9	272.4	270.9	269.4	269.0	265.6	261.1	258.8	258.1
167.5°	267.3	267.4	268.1	268.7	268.1	267.4	267.3	265.1	262.1	260.6	260.0
170°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	265.1	262.1	260.6	260.6
172.5°	265.9	265.7	265.2	264.6	265.2	265.7	265.9	264.1	261.7	260.6	260.6
175°	263.9	263.9	263.9	263.9	263.9	263.9	263.9	262.8	261.3	260.6	260.9
177.5°	263.6	263.4	262.8	262.2	262.8	263.4	263.6	262.7	261.6	260.9	261.2
180°	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2453.2	2453.2	2453.2	2453.2	2453.2
2.5°	2423.0	2434.7	2441.6	2450.9	2474.1
5°	2330.1	2374.2	2388.2	2423.0	2464.8
7.5°	2125.9	2260.6	2297.6	2381.2	2446.2
10°	1928.7	2063.3	2128.2	2325.6	2423.0
12.5°	1828.9	1907.8	1951.8	2228.1	2390.5
15°	1766.2	1821.9	1854.4	2098.1	2353.4
17.5°	1717.4	1757.0	1780.1	1970.5	2302.3
20°	1687.3	1705.8	1726.7	1877.6	2244.3
22.5°	1666.4	1654.8	1671.1	1812.6	2165.4
25°	1652.4	1608.3	1627.0	1761.5	2072.5
27.5°	1664.1	1566.6	1573.6	1715.1	1975.0
30°	1666.4	1515.5	1517.9	1666.4	1866.0
32.5°	1650.2	1462.2	1464.5	1606.1	1743.0
35°	1610.7	1399.5	1397.2	1536.4	1575.8
37.5°	1557.3	1332.2	1332.2	1459.8	1392.5
40°	1492.3	1264.8	1271.9	1360.0	1230.1
42.5°	1413.4	1192.9	1202.2	1227.8	1109.4
45°	1327.6	1123.3	1130.3	1037.4	1016.5
47.5°	1232.4	1051.3	1053.7	861.1	986.4
50°	1118.7	977.1	967.8	738.0	984.0
52.5°	1018.8	895.9	868.0	668.4	893.6
55°	921.4	810.0	749.6	615.1	828.6
57.5°	835.5	698.6	640.5	552.4	814.6
60°	756.6	589.5	545.4	485.1	747.3
62.5°	691.7	508.3	499.0	438.6	677.7
65°	622.0	452.6	450.2	399.2	575.6
67.5°	554.7	415.4	413.2	362.0	438.6
70°	482.7	376.0	371.3	322.6	324.9
72.5°	408.5	331.9	327.3	290.1	269.2
75°	334.2	280.8	278.5	253.0	218.2
77.5°	262.3	222.8	227.5	204.2	160.1
80°	188.0	162.5	167.1	146.2	120.7
82.5°	125.3	106.8	111.4	92.8	81.2
85°	69.6	60.3	62.6	48.7	37.2
87.5°	32.5	27.8	27.8	18.5	11.6
90°	7.7	4.9	4.6	3.2	1.8
92.5°	47.8	34.0	31.0	19.0	7.0
95°	117.4	66.1	60.7	38.7	16.9
97.5°	158.2	72.6	67.8	48.6	29.2
100°	173.0	78.1	73.7	56.2	38.7
102.5°	179.9	83.5	79.5	63.1	46.8
105°	185.0	91.7	88.3	74.4	60.5
107.5°	185.8	103.6	100.4	87.5	74.6
110°	184.4	110.3	107.4	95.7	84.1



TEST NUMBER: P934065
CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	184.5	118.4	115.6	104.5	93.5
115°	186.2	130.5	128.0	117.7	107.5
117.5°	189.7	142.4	140.0	130.7	121.4
120°	192.5	149.2	147.0	138.2	129.5
122.5°	196.6	157.3	155.1	146.2	137.4
125°	202.0	167.7	165.6	157.7	149.6
127.5°	207.5	177.7	175.7	167.5	159.4
130°	211.4	184.4	182.2	173.5	164.7
132.5°	214.7	189.8	187.6	178.9	170.1
135°	218.2	196.2	194.2	186.2	178.2
137.5°	223.4	204.3	202.3	194.4	186.5
140°	226.7	209.7	207.9	200.6	193.3
142.5°	229.4	213.8	212.1	205.3	198.7
145°	232.9	219.9	218.4	212.6	206.8
147.5°	238.0	227.7	226.3	220.5	214.8
150°	240.7	231.7	230.4	225.3	220.1
152.5°	242.5	234.3	233.4	229.4	225.5
155°	246.4	240.1	239.4	236.5	233.6
157.5°	250.2	245.9	245.2	242.4	239.6
160°	252.0	248.6	248.0	245.8	243.6
162.5°	253.8	251.4	250.9	249.3	247.7
165°	256.6	255.5	255.1	253.7	252.2
167.5°	258.7	257.8	257.6	256.9	256.2
170°	260.5	260.4	260.2	259.5	258.8
172.5°	260.6	260.6	260.6	260.4	260.2
175°	261.6	262.2	262.2	262.2	262.2
177.5°	261.7	262.2	262.2	262.2	262.2
180°	262.2	262.2	262.2	262.2	262.2



TEST NUMBER: P934065
 CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-3000K

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	15.59	16.79	16.25	17.47	18.26	18.43	19.63	19.09	20.31	21.09
	3H	16.09	17.17	16.77	17.86	18.68	19.80	20.88	20.48	21.57	22.39
	4H	16.30	17.32	16.99	18.01	18.85	20.26	21.28	20.96	21.98	22.81
	6H	16.44	17.37	17.14	18.08	18.93	20.57	21.50	21.28	22.21	23.06
	8H	16.45	17.34	17.17	18.07	18.92	20.65	21.55	21.37	22.28	23.13
	12H	16.43	17.28	17.15	18.00	18.88	20.70	21.56	21.43	22.28	23.16
4H	2H	16.67	17.68	17.36	18.38	19.22	18.88	19.89	19.58	20.59	21.43
	3H	17.72	18.57	18.43	19.31	20.16	20.42	21.26	21.13	22.00	22.85
	4H	18.01	18.78	18.74	19.52	20.40	20.96	21.73	21.69	22.47	23.35
	6H	18.16	18.82	18.90	19.59	20.48	21.35	22.01	22.09	22.78	23.67
	8H	18.17	18.79	18.92	19.55	20.46	21.46	22.08	22.21	22.85	23.75
	12H	18.15	18.71	18.93	19.50	20.41	21.54	22.10	22.31	22.88	23.79
8H	4H	18.50	19.12	19.25	19.88	20.78	21.11	21.73	21.86	22.49	23.40
	6H	18.77	19.29	19.55	20.09	21.00	21.56	22.08	22.34	22.88	23.79
	8H	18.82	19.28	19.61	20.08	21.00	21.72	22.18	22.51	22.98	23.90
	12H	18.82	19.22	19.61	20.01	20.99	21.84	22.24	22.63	23.03	24.01
12H	4H	18.52	19.08	19.29	19.86	20.77	21.09	21.65	21.86	22.44	23.35
	6H	18.83	19.29	19.63	20.10	21.02	21.56	22.02	22.36	22.83	23.75
	8H	18.92	19.32	19.71	20.12	21.10	21.74	22.15	22.54	22.94	23.92