

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: P934140

Luminaire Tested: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934140
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-92765-1D-UNV-STD-W-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

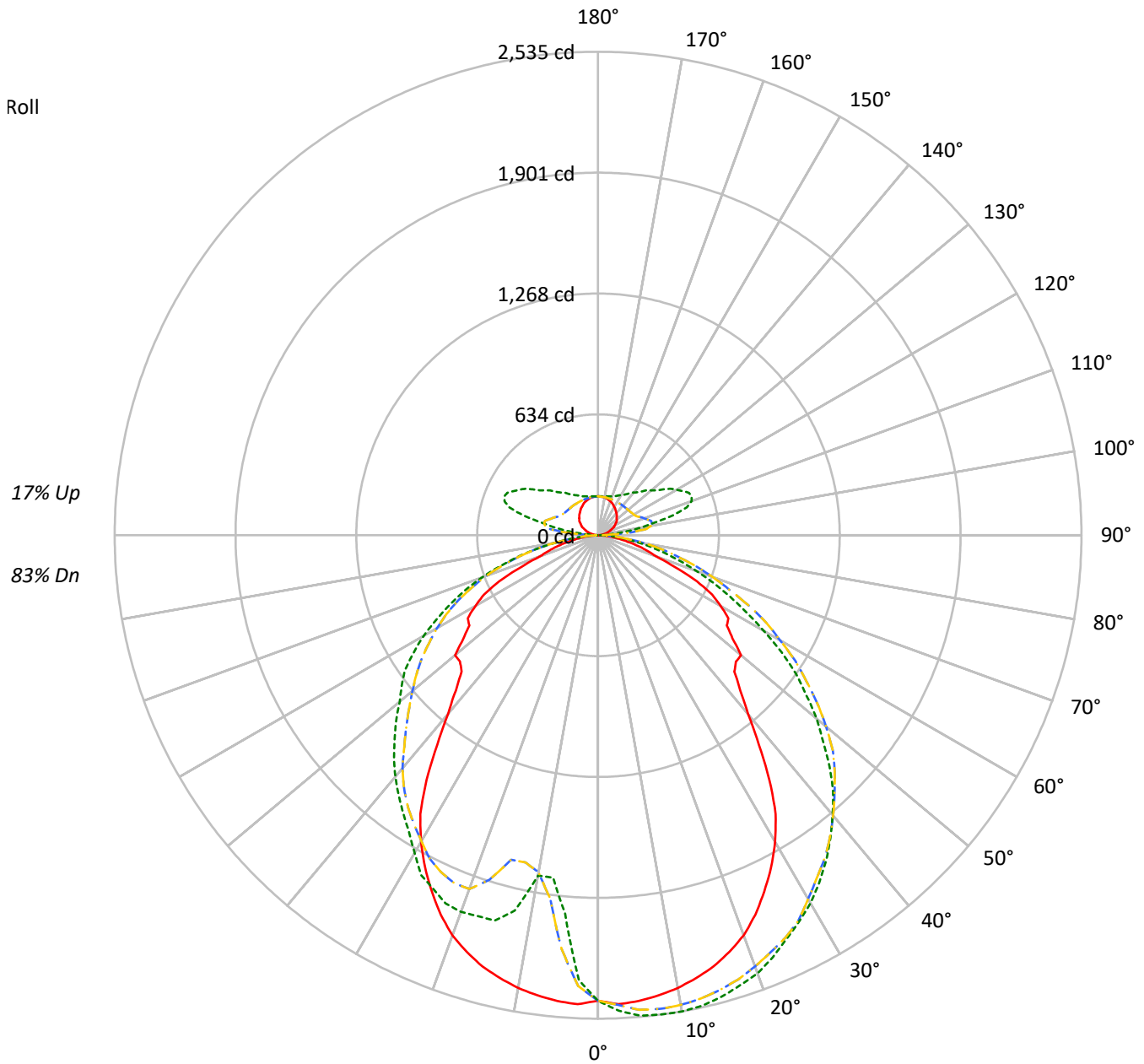
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7648.2 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15097	15097	15097	15097
5°	15204	15239	15204	11982
10°	15097	15012	15097	10732
15°	14927	14686	14927	12263
20°	14609	14301	14609	12289
25°	13964	13739	13964	12028
30°	13133	13273	13133	11457
35°	11703	12682	11703	10829
40°	9745	11988	9745	10354
45°	8702	11175	8702	9807
50°	9238	10205	9238	9259
55°	8683	9160	8683	8943
60°	8940	7779	8940	8191
65°	8092	6431	8092	7188
70°	5590	5125	5590	6026
75°	4883	3789	4883	4537
80°	3909	2505	3909	2726
85°	2200	1326	2200	1128

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13345 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	2.9
10°-20°	625.5	8.2
20°-30°	966.8	12.6
30°-40°	1154.2	15.1
40°-50°	1161.0	15.2
50°-60°	1010.2	13.2
60°-70°	716.2	9.4
70°-80°	378.9	5.0
80°-90°	95.1	1.2
90°-100°	99.2	1.3
100°-110°	260.9	3.4
110°-120°	270.6	3.5
120°-130°	217.0	2.8
130°-140°	170.3	2.2
140°-150°	130.7	1.7
150°-160°	94.1	1.2
160°-170°	57.6	0.8
170°-180°	19.5	0.3
0°-30°	1812.6	23.7
0°-40°	2966.8	38.8
0°-60°	5137.9	67.2
0°-90°	6328.2	82.7
90°-120°	630.8	8.2
90°-150°	1148.8	15.0
90°-180°	1320.0	17.3
0°-180°	7648.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2440	2440	2440	2440	2440	
5°	2452	2528	2452	1988	2452	233
15°	2341	2505	2341	2092	2341	659
25°	2062	2336	2062	2046	2062	947
35°	1568	2085	1568	1780	1568	970
45°	1011	1718	1011	1508	1011	810
55°	824	1268	824	1238	824	757
65°	573	764	573	854	573	547
75°	217	362	217	434	217	228
85°	37	92	37	78	37	50
90°	1	5	1	5	1	3
95°	13	60	13	60	13	15
105°	47	409	47	409	47	50
115°	84	526	84	526	84	82
125°	116	419	116	419	116	103
135°	138	325	138	325	138	107
145°	161	264	161	264	161	101
155°	182	227	182	227	182	83
165°	196	212	196	212	196	55
175°	204	205	204	205	204	19
180°	204	204	204	204	204	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4
2.5°	2461.1	2461.1	2475.0	2479.6	2479.6	2472.7	2465.8	2472.7	2493.5	2500.4	2498.0
5°	2451.9	2470.4	2495.8	2500.4	2505.0	2502.7	2498.0	2502.7	2525.8	2530.4	2532.7
7.5°	2433.5	2468.0	2500.4	2507.3	2514.2	2507.3	2505.0	2509.6	2532.7	2537.3	2537.3
10°	2410.4	2458.8	2495.8	2500.4	2507.3	2500.4	2500.4	2509.6	2532.7	2537.3	2539.6
12.5°	2378.1	2445.0	2479.6	2484.2	2493.5	2491.1	2488.9	2498.0	2521.1	2525.8	2525.8
15°	2341.1	2419.5	2451.9	2456.6	2472.7	2468.0	2468.0	2477.3	2502.7	2509.6	2507.3
17.5°	2290.3	2387.3	2424.2	2431.1	2442.6	2440.4	2442.6	2451.9	2475.0	2479.6	2481.9
20°	2232.6	2343.4	2387.3	2394.2	2405.7	2405.7	2405.7	2417.3	2440.4	2449.6	2449.6
22.5°	2154.1	2297.2	2343.4	2348.0	2361.9	2361.9	2366.5	2382.6	2403.4	2405.7	2405.7
25°	2061.7	2246.4	2285.6	2299.6	2313.4	2320.3	2327.2	2336.5	2343.4	2341.1	2343.4
27.5°	1964.7	2181.8	2232.6	2241.8	2260.3	2267.2	2276.5	2278.7	2281.1	2288.0	2283.4
30°	1856.2	2091.7	2167.9	2177.1	2207.1	2211.8	2202.6	2207.1	2218.7	2223.3	2228.0
32.5°	1733.9	1957.8	2101.0	2121.7	2149.5	2135.6	2133.3	2140.2	2158.7	2158.7	2163.3
35°	1567.7	1853.9	2038.7	2057.1	2077.9	2061.7	2071.0	2073.2	2084.8	2091.7	2089.4
37.5°	1385.3	1763.9	1974.0	1987.8	2004.0	1983.2	1997.1	2004.0	2013.2	2008.7	2008.7
40°	1223.6	1623.1	1897.8	1907.1	1920.9	1904.7	1918.6	1923.2	1927.8	1923.2	1920.9
42.5°	1103.6	1468.3	1817.0	1828.6	1819.3	1830.8	1835.5	1844.7	1837.7	1828.6	1828.6
45°	1011.2	1426.9	1729.2	1743.1	1729.2	1747.8	1754.7	1754.7	1733.9	1729.2	1726.9
47.5°	981.2	1343.7	1641.5	1641.5	1634.6	1657.7	1669.3	1653.1	1632.3	1625.3	1625.3
50°	979.0	1251.4	1521.5	1512.3	1544.6	1572.3	1560.8	1544.6	1528.4	1503.0	1503.0
52.5°	888.9	1138.2	1366.8	1401.4	1452.2	1468.3	1449.9	1433.8	1406.0	1394.5	1385.3
55°	824.2	1020.4	1225.9	1295.2	1348.4	1369.1	1334.4	1318.3	1276.8	1269.9	1265.2
57.5°	810.4	849.6	1096.7	1184.4	1249.0	1246.7	1225.9	1195.9	1161.3	1154.4	1152.1
60°	743.4	614.1	958.1	1062.0	1129.0	1122.0	1103.6	1075.9	1043.5	1039.0	1034.3
62.5°	674.1	445.6	801.1	918.9	1013.5	1011.2	995.1	953.5	930.5	918.9	909.6
65°	572.6	374.0	570.3	764.2	900.4	905.0	870.4	840.4	815.0	801.1	798.8
67.5°	436.4	304.7	385.6	637.2	791.9	787.3	743.4	729.5	697.2	690.3	676.5
70°	323.2	203.2	267.8	517.1	685.7	674.1	639.6	623.4	593.4	577.2	568.0
72.5°	267.8	163.9	196.2	401.7	577.2	563.3	533.3	514.9	489.5	475.6	466.4
75°	217.0	173.2	150.1	297.8	468.6	459.5	431.7	413.2	392.5	374.0	376.3
77.5°	159.3	161.6	120.1	219.3	371.7	357.9	341.7	318.6	309.4	290.9	290.9
80°	120.1	127.0	90.1	150.1	267.8	267.8	254.0	237.8	221.7	212.4	212.4
82.5°	80.8	80.8	66.9	94.7	182.4	175.5	166.2	161.6	152.4	147.7	147.7
85°	36.9	46.2	41.6	57.8	99.2	103.9	103.9	99.2	97.0	92.3	94.7
87.5°	11.6	20.7	25.4	32.3	50.8	53.1	55.4	55.4	55.4	57.8	57.8
90°	1.4	2.5	3.5	3.8	6.0	8.9	10.4	9.2	6.9	5.2	5.2
92.5°	5.5	14.7	24.0	26.4	37.1	51.4	58.5	51.2	36.7	25.9	24.9
95°	13.1	30.1	47.1	51.4	91.2	144.4	170.9	152.5	115.7	88.1	85.1
97.5°	22.6	37.7	52.7	56.4	122.9	211.5	255.8	244.1	221.0	203.5	197.6
100°	30.1	43.7	57.3	60.7	134.4	232.8	281.9	282.7	284.4	285.7	278.6
102.5°	36.4	49.1	61.8	64.9	139.7	239.4	289.3	304.1	333.7	356.0	349.9
105°	47.0	57.8	68.5	71.2	143.6	240.1	288.4	321.6	388.1	438.0	434.7
107.5°	57.9	67.9	78.0	80.5	144.4	229.5	272.1	318.5	411.2	480.7	481.5
110°	65.3	74.4	83.4	85.7	143.3	220.0	258.4	310.3	413.9	491.6	494.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	72.6	81.2	89.8	92.0	143.3	211.8	246.0	299.0	405.1	484.6	489.7
115°	83.5	91.5	99.4	101.4	144.6	202.2	231.0	282.2	384.3	460.9	468.2
117.5°	94.3	101.5	108.7	110.5	147.3	196.3	220.9	267.0	359.1	428.3	436.3
120°	100.6	107.4	114.2	115.9	149.5	194.4	216.8	258.9	343.1	406.3	414.2
122.5°	106.7	113.6	120.4	122.2	152.6	193.3	213.6	251.5	327.4	384.3	392.1
125°	116.2	122.4	128.7	130.3	156.9	192.5	210.2	242.4	306.9	355.2	362.3
127.5°	123.8	130.1	136.4	138.0	161.1	191.9	207.3	235.0	290.4	331.8	337.8
130°	127.9	134.7	141.4	143.2	164.2	192.2	206.2	230.9	280.1	317.0	322.6
132.5°	132.2	139.0	145.7	147.5	166.7	192.5	205.3	227.3	271.4	304.5	309.4
135°	138.4	144.6	150.8	152.4	169.5	192.3	203.7	222.1	259.1	286.7	291.0
137.5°	144.9	151.0	157.1	158.6	173.6	193.5	203.4	219.0	250.2	273.6	277.1
140°	150.2	155.8	161.5	162.9	176.1	193.7	202.4	215.9	242.9	263.1	266.3
142.5°	154.3	159.5	164.7	166.0	178.1	194.3	202.4	214.2	238.0	255.7	258.5
145°	160.6	165.1	169.6	170.8	180.9	194.3	201.0	210.7	230.0	244.6	246.7
147.5°	166.8	171.3	175.7	176.8	184.9	195.7	201.0	208.7	223.9	235.3	237.1
150°	170.9	174.9	179.0	180.0	187.0	196.4	201.0	207.5	220.3	230.0	231.4
152.5°	175.2	178.2	181.3	182.0	188.4	196.8	201.0	206.5	217.5	225.8	226.9
155°	181.5	183.7	186.0	186.6	191.4	197.8	201.0	205.4	214.1	220.7	221.4
157.5°	186.1	188.3	190.5	191.0	194.4	198.8	201.0	204.4	211.2	216.3	216.9
160°	189.3	191.0	192.7	193.1	195.8	199.3	201.0	203.9	209.8	214.1	214.4
162.5°	192.4	193.7	194.9	195.3	197.2	199.8	201.0	203.5	208.4	212.1	212.4
165°	195.8	196.9	198.1	198.4	199.3	200.5	201.0	202.8	206.3	208.9	209.2
167.5°	198.9	199.5	200.0	200.2	200.9	201.9	202.4	203.6	205.9	207.6	207.7
170°	201.0	201.6	202.1	202.2	202.3	202.4	202.4	203.6	205.9	207.6	207.6
172.5°	202.1	202.2	202.4	202.4	202.4	202.4	202.4	203.3	205.1	206.5	206.4
175°	203.7	203.7	203.7	203.7	203.2	202.7	202.4	202.9	204.1	205.0	205.0
177.5°	203.7	203.7	203.7	203.7	203.3	202.8	202.7	203.1	204.0	204.8	204.7
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4
2.5°	2502.7	2495.8	2502.7	2498.0	2500.4	2493.5	2472.7	2465.8	2472.7	2479.6	2479.6
5°	2532.7	2528.1	2532.7	2532.7	2530.4	2525.8	2502.7	2498.0	2502.7	2505.0	2500.4
7.5°	2542.0	2535.1	2542.0	2537.3	2537.3	2532.7	2509.6	2505.0	2507.3	2514.2	2507.3
10°	2542.0	2535.1	2542.0	2539.6	2537.3	2532.7	2509.6	2500.4	2500.4	2507.3	2500.4
12.5°	2530.4	2525.8	2530.4	2525.8	2525.8	2521.1	2498.0	2488.9	2491.1	2493.5	2484.2
15°	2512.0	2505.0	2512.0	2507.3	2509.6	2502.7	2477.3	2468.0	2468.0	2472.7	2456.6
17.5°	2484.2	2475.0	2484.2	2481.9	2479.6	2475.0	2451.9	2442.6	2440.4	2442.6	2431.1
20°	2451.9	2445.0	2451.9	2449.6	2449.6	2440.4	2417.3	2405.7	2405.7	2405.7	2394.2
22.5°	2401.1	2394.2	2401.1	2405.7	2405.7	2403.4	2382.6	2366.5	2361.9	2361.9	2348.0
25°	2343.4	2336.5	2343.4	2343.4	2341.1	2343.4	2336.5	2327.2	2320.3	2313.4	2299.6
27.5°	2288.0	2283.4	2288.0	2283.4	2288.0	2281.1	2278.7	2276.5	2267.2	2260.3	2241.8
30°	2232.6	2228.0	2232.6	2228.0	2223.3	2218.7	2207.1	2202.6	2211.8	2207.1	2177.1
32.5°	2163.3	2158.7	2163.3	2163.3	2158.7	2158.7	2140.2	2133.3	2135.6	2149.5	2121.7
35°	2091.7	2084.8	2091.7	2089.4	2091.7	2084.8	2073.2	2071.0	2061.7	2077.9	2057.1
37.5°	2008.7	2001.7	2008.7	2008.7	2008.7	2013.2	2004.0	1997.1	1983.2	2004.0	1987.8
40°	1923.2	1914.0	1923.2	1920.9	1923.2	1927.8	1923.2	1918.6	1904.7	1920.9	1907.1
42.5°	1826.3	1823.9	1826.3	1828.6	1828.6	1837.7	1844.7	1835.5	1830.8	1819.3	1828.6
45°	1722.3	1717.8	1722.3	1726.9	1729.2	1733.9	1754.7	1754.7	1747.8	1729.2	1743.1
47.5°	1611.5	1600.0	1611.5	1625.3	1625.3	1632.3	1653.1	1669.3	1657.7	1634.6	1641.5
50°	1493.8	1496.1	1493.8	1503.0	1503.0	1528.4	1544.6	1560.8	1572.3	1544.6	1512.3
52.5°	1378.4	1376.0	1378.4	1385.3	1394.5	1406.0	1433.8	1449.9	1468.3	1452.2	1401.4
55°	1262.8	1267.5	1262.8	1265.2	1269.9	1276.8	1318.3	1334.4	1369.1	1348.4	1295.2
57.5°	1147.4	1140.5	1147.4	1152.1	1154.4	1161.3	1195.9	1225.9	1246.7	1249.0	1184.4
60°	1013.5	1004.3	1013.5	1034.3	1039.0	1043.5	1075.9	1103.6	1122.0	1129.0	1062.0
62.5°	895.8	879.6	895.8	909.6	918.9	930.5	953.5	995.1	1011.2	1013.5	918.9
65°	771.1	764.2	771.1	798.8	801.1	815.0	840.4	870.4	905.0	900.4	764.2
67.5°	658.0	658.0	658.0	676.5	690.3	697.2	729.5	743.4	787.3	791.9	637.2
70°	554.1	551.8	554.1	568.0	577.2	593.4	623.4	639.6	674.1	685.7	517.1
72.5°	454.8	452.5	454.8	466.4	475.6	489.5	514.9	533.3	563.3	577.2	401.7
75°	367.1	362.5	367.1	376.3	374.0	392.5	413.2	431.7	459.5	468.6	297.8
77.5°	281.7	281.7	281.7	290.9	290.9	309.4	318.6	341.7	357.9	371.7	219.3
80°	210.1	207.8	210.1	212.4	212.4	221.7	237.8	254.0	267.8	267.8	150.1
82.5°	147.7	143.2	147.7	147.7	147.7	152.4	161.6	166.2	175.5	182.4	94.7
85°	92.3	92.3	92.3	94.7	92.3	97.0	99.2	103.9	103.9	99.2	57.8
87.5°	60.0	57.8	60.0	57.8	57.8	55.4	55.4	55.4	53.1	50.8	32.3
90°	5.2	5.2	5.2	5.2	5.2	6.9	9.2	10.4	8.9	6.0	3.8
92.5°	20.7	16.6	20.7	24.9	25.9	36.7	51.2	58.5	51.4	37.1	26.4
95°	72.5	60.0	72.5	85.1	88.1	115.7	152.5	170.9	144.4	91.2	51.4
97.5°	173.7	149.9	173.7	197.6	203.5	221.0	244.1	255.8	211.5	122.9	56.4
100°	250.3	222.0	250.3	278.6	285.7	284.4	282.7	281.9	232.8	134.4	60.7
102.5°	325.7	301.4	325.7	349.9	356.0	333.7	304.1	289.3	239.4	139.7	64.9
105°	421.7	408.6	421.7	434.7	438.0	388.1	321.6	288.4	240.1	143.6	71.2
107.5°	484.6	487.7	484.6	481.5	480.7	411.2	318.5	272.1	229.5	144.4	80.5
110°	508.6	522.2	508.6	494.9	491.6	413.9	310.3	258.4	220.0	143.3	85.7



TEST NUMBER: P934140

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	510.7	531.6	510.7	489.7	484.6	405.1	299.0	246.0	211.8	143.3	92.0
115°	497.1	526.1	497.1	468.2	460.9	384.3	282.2	231.0	202.2	144.6	101.4
117.5°	468.5	500.6	468.5	436.3	428.3	359.1	267.0	220.9	196.3	147.3	110.5
120°	445.4	476.6	445.4	414.2	406.3	343.1	258.9	216.8	194.4	149.5	115.9
122.5°	422.8	453.5	422.8	392.1	384.3	327.4	251.5	213.6	193.3	152.6	122.2
125°	390.6	419.0	390.6	362.3	355.2	306.9	242.4	210.2	192.5	156.9	130.3
127.5°	361.8	385.7	361.8	337.8	331.8	290.4	235.0	207.3	191.9	161.1	138.0
130°	344.7	366.8	344.7	322.6	317.0	280.1	230.9	206.2	192.2	164.2	143.2
132.5°	329.2	349.0	329.2	309.4	304.5	271.4	227.3	205.3	192.5	166.7	147.5
135°	308.0	325.1	308.0	291.0	286.7	259.1	222.1	203.7	192.3	169.5	152.4
137.5°	291.1	305.0	291.1	277.1	273.6	250.2	219.0	203.4	193.5	173.6	158.6
140°	279.3	292.4	279.3	266.3	263.1	242.9	215.9	202.4	193.7	176.1	162.9
142.5°	269.7	281.0	269.7	258.5	255.7	238.0	214.2	202.4	194.3	178.1	166.0
145°	255.2	263.8	255.2	246.7	244.6	230.0	210.7	201.0	194.3	180.9	170.8
147.5°	244.1	251.2	244.1	237.1	235.3	223.9	208.7	201.0	195.7	184.9	176.8
150°	237.1	242.9	237.1	231.4	230.0	220.3	207.5	201.0	196.4	187.0	180.0
152.5°	231.1	235.5	231.1	226.9	225.8	217.5	206.5	201.0	196.8	188.4	182.0
155°	224.2	227.1	224.2	221.4	220.7	214.1	205.4	201.0	197.8	191.4	186.6
157.5°	218.9	220.9	218.9	216.9	216.3	211.2	204.4	201.0	198.8	194.4	191.0
160°	215.6	216.8	215.6	214.4	214.1	209.8	203.9	201.0	199.3	195.8	193.1
162.5°	213.5	214.6	213.5	212.4	212.1	208.4	203.5	201.0	199.8	197.2	195.3
165°	210.4	211.6	210.4	209.2	208.9	206.3	202.8	201.0	200.5	199.3	198.4
167.5°	208.2	208.7	208.2	207.7	207.6	205.9	203.6	202.4	201.9	200.9	200.2
170°	207.6	207.6	207.6	207.6	207.6	205.9	203.6	202.4	202.4	202.3	202.2
172.5°	205.9	205.6	205.9	206.4	206.5	205.1	203.3	202.4	202.4	202.4	202.4
175°	205.0	205.0	205.0	205.0	205.0	204.1	202.9	202.4	202.7	203.2	203.7
177.5°	204.1	203.7	204.1	204.7	204.8	204.0	203.1	202.7	202.8	203.3	203.7
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P934140

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4
2.5°	2475.0	2461.1	2461.1	2438.1	2428.8	2421.9	2410.4	2375.7	2366.5	2357.2	2371.1
5°	2495.8	2470.4	2451.9	2410.4	2375.7	2361.9	2318.0	2234.9	2179.5	2137.9	2114.8
7.5°	2500.4	2468.0	2433.5	2368.8	2285.6	2248.7	2114.8	1962.5	1920.9	1883.9	1860.8
10°	2495.8	2458.8	2410.4	2313.4	2117.2	2052.5	1918.6	1819.3	1793.9	1787.0	1793.9
12.5°	2479.6	2445.0	2378.1	2216.4	1941.7	1897.8	1819.3	1761.6	1757.0	1768.5	1830.8
15°	2451.9	2419.5	2341.1	2087.2	1844.7	1812.4	1757.0	1736.2	1761.6	1842.4	2029.4
17.5°	2424.2	2387.3	2290.3	1960.2	1770.8	1747.8	1708.5	1750.1	1893.2	2001.7	2064.1
20°	2387.3	2343.4	2232.6	1867.8	1717.8	1696.9	1678.5	1865.5	1974.0	2013.2	2047.9
22.5°	2343.4	2297.2	2154.1	1803.2	1662.3	1646.2	1657.7	1930.2	1974.0	2001.7	2031.7
25°	2285.6	2246.4	2061.7	1752.3	1618.4	1600.0	1643.8	1923.2	1948.6	1955.5	2015.6
27.5°	2232.6	2181.8	1964.7	1706.2	1565.3	1558.4	1655.4	1893.2	1911.7	1918.6	1983.2
30°	2167.9	2091.7	1856.2	1657.7	1509.9	1507.6	1657.7	1856.2	1851.7	1870.1	1934.7
32.5°	2101.0	1957.8	1733.9	1597.7	1456.9	1454.5	1641.5	1800.8	1796.3	1821.6	1870.1
35°	2038.7	1853.9	1567.7	1528.4	1389.8	1392.2	1602.3	1736.2	1738.5	1761.6	1791.6
37.5°	1974.0	1763.9	1385.3	1452.2	1325.3	1325.3	1549.2	1676.2	1671.5	1678.5	1720.0
40°	1897.8	1623.1	1223.6	1352.9	1265.2	1258.3	1484.5	1611.5	1595.3	1593.0	1650.8
42.5°	1817.0	1468.3	1103.6	1221.4	1195.9	1186.7	1406.0	1533.0	1503.0	1509.9	1583.8
45°	1729.2	1426.9	1011.2	1032.0	1124.4	1117.4	1320.6	1443.0	1422.2	1440.7	1516.8
47.5°	1641.5	1343.7	981.2	856.5	1048.2	1045.9	1225.9	1355.3	1343.7	1362.2	1443.0
50°	1521.5	1251.4	979.0	734.2	962.8	971.9	1112.8	1269.9	1269.9	1286.0	1371.4
52.5°	1366.8	1138.2	888.9	664.9	863.5	891.2	1013.5	1195.9	1200.5	1216.7	1292.9
55°	1225.9	1020.4	824.2	611.8	745.7	805.8	916.6	1119.8	1129.0	1145.1	1214.4
57.5°	1096.7	849.6	810.4	549.5	637.2	695.0	831.1	1045.9	1050.4	1064.4	1131.3
60°	958.1	614.1	743.4	482.6	542.6	586.4	752.6	958.1	974.3	983.5	1041.3
62.5°	801.1	445.6	674.1	436.4	496.4	505.6	688.0	875.0	895.8	902.7	937.4
65°	570.3	374.0	572.6	397.1	447.9	450.2	618.7	789.6	808.0	819.6	845.1
67.5°	385.6	304.7	436.4	360.1	411.0	413.2	551.8	690.3	715.7	725.0	741.1
70°	267.8	203.2	323.2	320.9	369.4	374.0	480.2	600.3	623.4	630.3	639.6
72.5°	196.2	163.9	267.8	288.6	325.6	330.2	406.3	498.7	521.8	528.7	533.3
75°	150.1	173.2	217.0	251.7	277.1	279.3	332.5	406.3	422.5	427.2	429.4
77.5°	120.1	161.6	159.3	203.2	226.2	221.7	260.9	314.0	327.8	327.8	327.8
80°	90.1	127.0	120.1	145.5	166.2	161.6	187.0	224.0	228.6	233.1	230.9
82.5°	66.9	80.8	80.8	92.3	110.8	106.2	124.7	145.5	145.5	145.5	150.1
85°	41.6	46.2	36.9	48.5	62.3	60.0	69.2	78.5	80.8	80.8	76.2
87.5°	25.4	20.7	11.6	18.5	27.7	27.7	32.3	34.7	32.3	32.3	32.3
90°	3.5	2.5	1.4	2.5	3.5	3.8	6.0	8.9	10.4	9.2	6.9
92.5°	24.0	14.7	5.5	14.7	24.0	26.4	37.1	51.4	58.5	51.2	36.7
95°	47.1	30.1	13.1	30.1	47.1	51.4	91.2	144.4	170.9	152.5	115.7
97.5°	52.7	37.7	22.6	37.7	52.7	56.4	122.9	211.5	255.8	244.1	221.0
100°	57.3	43.7	30.1	43.7	57.3	60.7	134.4	232.8	281.9	282.7	284.4
102.5°	61.8	49.1	36.4	49.1	61.8	64.9	139.7	239.4	289.3	304.1	333.7
105°	68.5	57.8	47.0	57.8	68.5	71.2	143.6	240.1	288.4	321.6	388.1
107.5°	78.0	67.9	57.9	67.9	78.0	80.5	144.4	229.5	272.1	318.5	411.2
110°	83.4	74.4	65.3	74.4	83.4	85.7	143.3	220.0	258.4	310.3	413.9



TEST NUMBER: P934140

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	89.8	81.2	72.6	81.2	89.8	92.0	143.3	211.8	246.0	299.0	405.1
115°	99.4	91.5	83.5	91.5	99.4	101.4	144.6	202.2	231.0	282.2	384.3
117.5°	108.7	101.5	94.3	101.5	108.7	110.5	147.3	196.3	220.9	267.0	359.1
120°	114.2	107.4	100.6	107.4	114.2	115.9	149.5	194.4	216.8	258.9	343.1
122.5°	120.4	113.6	106.7	113.6	120.4	122.2	152.6	193.3	213.6	251.5	327.4
125°	128.7	122.4	116.2	122.4	128.7	130.3	156.9	192.5	210.2	242.4	306.9
127.5°	136.4	130.1	123.8	130.1	136.4	138.0	161.1	191.9	207.3	235.0	290.4
130°	141.4	134.7	127.9	134.7	141.4	143.2	164.2	192.2	206.2	230.9	280.1
132.5°	145.7	139.0	132.2	139.0	145.7	147.5	166.7	192.5	205.3	227.3	271.4
135°	150.8	144.6	138.4	144.6	150.8	152.4	169.5	192.3	203.7	222.1	259.1
137.5°	157.1	151.0	144.9	151.0	157.1	158.6	173.6	193.5	203.4	219.0	250.2
140°	161.5	155.8	150.2	155.8	161.5	162.9	176.1	193.7	202.4	215.9	242.9
142.5°	164.7	159.5	154.3	159.5	164.7	166.0	178.1	194.3	202.4	214.2	238.0
145°	169.6	165.1	160.6	165.1	169.6	170.8	180.9	194.3	201.0	210.7	230.0
147.5°	175.7	171.3	166.8	171.3	175.7	176.8	184.9	195.7	201.0	208.7	223.9
150°	179.0	174.9	170.9	174.9	179.0	180.0	187.0	196.4	201.0	207.5	220.3
152.5°	181.3	178.2	175.2	178.2	181.3	182.0	188.4	196.8	201.0	206.5	217.5
155°	186.0	183.7	181.5	183.7	186.0	186.6	191.4	197.8	201.0	205.4	214.1
157.5°	190.5	188.3	186.1	188.3	190.5	191.0	194.4	198.8	201.0	204.4	211.2
160°	192.7	191.0	189.3	191.0	192.7	193.1	195.8	199.3	201.0	203.9	209.8
162.5°	194.9	193.7	192.4	193.7	194.9	195.3	197.2	199.8	201.0	203.5	208.4
165°	198.1	196.9	195.8	196.9	198.1	198.4	199.3	200.5	201.0	202.8	206.3
167.5°	200.0	199.5	198.9	199.5	200.0	200.2	200.9	201.9	202.4	203.6	205.9
170°	202.1	201.6	201.0	201.6	202.1	202.2	202.3	202.4	202.4	203.6	205.9
172.5°	202.4	202.2	202.1	202.2	202.4	202.4	202.4	202.4	202.4	203.3	205.1
175°	203.7	203.7	203.7	203.7	203.7	203.7	203.2	202.7	202.4	202.9	204.1
177.5°	203.7	203.7	203.7	203.7	203.7	203.7	203.3	202.8	202.7	203.1	204.0
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P934140
 CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4	2440.4
2.5°	2355.0	2348.0	2357.2	2331.9	2357.2	2348.0	2355.0	2371.1	2357.2	2366.5	2375.7
5°	2066.3	2054.8	2017.8	1987.8	2017.8	2054.8	2066.3	2114.8	2137.9	2179.5	2234.9
7.5°	1847.0	1837.7	1828.6	1810.1	1828.6	1837.7	1847.0	1860.8	1883.9	1920.9	1962.5
10°	1798.5	1800.8	1814.7	1812.4	1814.7	1800.8	1798.5	1793.9	1787.0	1793.9	1819.3
12.5°	1923.2	1944.0	2020.2	2015.6	2020.2	1944.0	1923.2	1830.8	1768.5	1757.0	1761.6
15°	2066.3	2073.2	2089.4	2091.7	2089.4	2073.2	2066.3	2029.4	1842.4	1761.6	1736.2
17.5°	2080.2	2082.5	2094.1	2094.1	2094.1	2082.5	2080.2	2064.1	2001.7	1893.2	1750.1
20°	2068.7	2073.2	2096.3	2101.0	2096.3	2073.2	2068.7	2047.9	2013.2	1974.0	1865.5
22.5°	2064.1	2073.2	2091.7	2089.4	2091.7	2073.2	2064.1	2031.7	2001.7	1974.0	1930.2
25°	2041.0	2041.0	2043.2	2045.6	2043.2	2041.0	2041.0	2015.6	1955.5	1948.6	1923.2
27.5°	1992.5	1997.1	2010.9	2008.7	2010.9	1997.1	1992.5	1983.2	1918.6	1911.7	1893.2
30°	1948.6	1944.0	1932.4	1923.2	1932.4	1944.0	1948.6	1934.7	1870.1	1851.7	1856.2
32.5°	1874.8	1863.2	1851.7	1844.7	1851.7	1863.2	1874.8	1870.1	1821.6	1796.3	1800.8
35°	1787.0	1789.3	1787.0	1780.1	1787.0	1789.3	1787.0	1791.6	1761.6	1738.5	1736.2
37.5°	1724.7	1729.2	1726.9	1717.8	1726.9	1729.2	1724.7	1720.0	1678.5	1671.5	1676.2
40°	1660.0	1662.3	1660.0	1653.1	1660.0	1662.3	1660.0	1650.8	1593.0	1595.3	1611.5
42.5°	1597.7	1595.3	1588.4	1583.8	1588.4	1595.3	1597.7	1583.8	1509.9	1503.0	1533.0
45°	1526.1	1528.4	1514.5	1507.6	1514.5	1528.4	1526.1	1516.8	1440.7	1422.2	1443.0
47.5°	1454.5	1454.5	1443.0	1436.0	1443.0	1454.5	1454.5	1443.0	1362.2	1343.7	1355.3
50°	1378.4	1376.0	1359.9	1357.5	1359.9	1376.0	1378.4	1371.4	1286.0	1269.9	1269.9
52.5°	1290.6	1290.6	1292.9	1297.5	1292.9	1290.6	1290.6	1292.9	1216.7	1200.5	1195.9
55°	1214.4	1216.7	1232.9	1237.5	1232.9	1216.7	1214.4	1214.4	1145.1	1129.0	1119.8
57.5°	1136.0	1136.0	1147.4	1147.4	1147.4	1136.0	1136.0	1131.3	1064.4	1050.4	1045.9
60°	1045.9	1050.4	1059.7	1057.5	1059.7	1050.4	1045.9	1041.3	983.5	974.3	958.1
62.5°	951.2	955.8	958.1	953.5	958.1	955.8	951.2	937.4	902.7	895.8	875.0
65°	852.0	856.5	858.9	854.2	858.9	856.5	852.0	845.1	819.6	808.0	789.6
67.5°	750.4	748.0	745.7	755.0	745.7	748.0	750.4	741.1	725.0	715.7	690.3
70°	646.5	646.5	644.1	648.8	644.1	646.5	646.5	639.6	630.3	623.4	600.3
72.5°	535.6	533.3	542.6	535.6	542.6	533.3	535.6	533.3	528.7	521.8	498.7
75°	427.2	431.7	427.2	434.1	427.2	431.7	427.2	429.4	427.2	422.5	406.3
77.5°	325.6	330.2	325.6	325.6	325.6	330.2	325.6	327.8	327.8	327.8	314.0
80°	230.9	228.6	228.6	226.2	228.6	228.6	230.9	230.9	233.1	228.6	224.0
82.5°	147.7	145.5	145.5	150.1	145.5	145.5	147.7	150.1	145.5	145.5	145.5
85°	80.8	83.1	78.5	78.5	78.5	83.1	80.8	76.2	80.8	80.8	78.5
87.5°	30.0	27.7	27.7	27.7	27.7	27.7	30.0	32.3	32.3	32.3	34.7
90°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.9	9.2	10.4	8.9
92.5°	25.9	24.9	20.7	16.6	20.7	24.9	25.9	36.7	51.2	58.5	51.4
95°	88.1	85.1	72.5	60.0	72.5	85.1	88.1	115.7	152.5	170.9	144.4
97.5°	203.5	197.6	173.7	149.9	173.7	197.6	203.5	221.0	244.1	255.8	211.5
100°	285.7	278.6	250.3	222.0	250.3	278.6	285.7	284.4	282.7	281.9	232.8
102.5°	356.0	349.9	325.7	301.4	325.7	349.9	356.0	333.7	304.1	289.3	239.4
105°	438.0	434.7	421.7	408.6	421.7	434.7	438.0	388.1	321.6	288.4	240.1
107.5°	480.7	481.5	484.6	487.7	484.6	481.5	480.7	411.2	318.5	272.1	229.5
110°	491.6	494.9	508.6	522.2	508.6	494.9	491.6	413.9	310.3	258.4	220.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	484.6	489.7	510.7	531.6	510.7	489.7	484.6	405.1	299.0	246.0	211.8
115°	460.9	468.2	497.1	526.1	497.1	468.2	460.9	384.3	282.2	231.0	202.2
117.5°	428.3	436.3	468.5	500.6	468.5	436.3	428.3	359.1	267.0	220.9	196.3
120°	406.3	414.2	445.4	476.6	445.4	414.2	406.3	343.1	258.9	216.8	194.4
122.5°	384.3	392.1	422.8	453.5	422.8	392.1	384.3	327.4	251.5	213.6	193.3
125°	355.2	362.3	390.6	419.0	390.6	362.3	355.2	306.9	242.4	210.2	192.5
127.5°	331.8	337.8	361.8	385.7	361.8	337.8	331.8	290.4	235.0	207.3	191.9
130°	317.0	322.6	344.7	366.8	344.7	322.6	317.0	280.1	230.9	206.2	192.2
132.5°	304.5	309.4	329.2	349.0	329.2	309.4	304.5	271.4	227.3	205.3	192.5
135°	286.7	291.0	308.0	325.1	308.0	291.0	286.7	259.1	222.1	203.7	192.3
137.5°	273.6	277.1	291.1	305.0	291.1	277.1	273.6	250.2	219.0	203.4	193.5
140°	263.1	266.3	279.3	292.4	279.3	266.3	263.1	242.9	215.9	202.4	193.7
142.5°	255.7	258.5	269.7	281.0	269.7	258.5	255.7	238.0	214.2	202.4	194.3
145°	244.6	246.7	255.2	263.8	255.2	246.7	244.6	230.0	210.7	201.0	194.3
147.5°	235.3	237.1	244.1	251.2	244.1	237.1	235.3	223.9	208.7	201.0	195.7
150°	230.0	231.4	237.1	242.9	237.1	231.4	230.0	220.3	207.5	201.0	196.4
152.5°	225.8	226.9	231.1	235.5	231.1	226.9	225.8	217.5	206.5	201.0	196.8
155°	220.7	221.4	224.2	227.1	224.2	221.4	220.7	214.1	205.4	201.0	197.8
157.5°	216.3	216.9	218.9	220.9	218.9	216.9	216.3	211.2	204.4	201.0	198.8
160°	214.1	214.4	215.6	216.8	215.6	214.4	214.1	209.8	203.9	201.0	199.3
162.5°	212.1	212.4	213.5	214.6	213.5	212.4	212.1	208.4	203.5	201.0	199.8
165°	208.9	209.2	210.4	211.6	210.4	209.2	208.9	206.3	202.8	201.0	200.5
167.5°	207.6	207.7	208.2	208.7	208.2	207.7	207.6	205.9	203.6	202.4	201.9
170°	207.6	207.6	207.6	207.6	207.6	207.6	207.6	205.9	203.6	202.4	202.4
172.5°	206.5	206.4	205.9	205.6	205.9	206.4	206.5	205.1	203.3	202.4	202.4
175°	205.0	205.0	205.0	205.0	205.0	205.0	205.0	204.1	202.9	202.4	202.7
177.5°	204.8	204.7	204.1	203.7	204.1	204.7	204.8	204.0	203.1	202.7	202.8
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2440.4	2440.4	2440.4	2440.4	2440.4
2.5°	2410.4	2421.9	2428.8	2438.1	2461.1
5°	2318.0	2361.9	2375.7	2410.4	2451.9
7.5°	2114.8	2248.7	2285.6	2368.8	2433.5
10°	1918.6	2052.5	2117.2	2313.4	2410.4
12.5°	1819.3	1897.8	1941.7	2216.4	2378.1
15°	1757.0	1812.4	1844.7	2087.2	2341.1
17.5°	1708.5	1747.8	1770.8	1960.2	2290.3
20°	1678.5	1696.9	1717.8	1867.8	2232.6
22.5°	1657.7	1646.2	1662.3	1803.2	2154.1
25°	1643.8	1600.0	1618.4	1752.3	2061.7
27.5°	1655.4	1558.4	1565.3	1706.2	1964.7
30°	1657.7	1507.6	1509.9	1657.7	1856.2
32.5°	1641.5	1454.5	1456.9	1597.7	1733.9
35°	1602.3	1392.2	1389.8	1528.4	1567.7
37.5°	1549.2	1325.3	1325.3	1452.2	1385.3
40°	1484.5	1258.3	1265.2	1352.9	1223.6
42.5°	1406.0	1186.7	1195.9	1221.4	1103.6
45°	1320.6	1117.4	1124.4	1032.0	1011.2
47.5°	1225.9	1045.9	1048.2	856.5	981.2
50°	1112.8	971.9	962.8	734.2	979.0
52.5°	1013.5	891.2	863.5	664.9	888.9
55°	916.6	805.8	745.7	611.8	824.2
57.5°	831.1	695.0	637.2	549.5	810.4
60°	752.6	586.4	542.6	482.6	743.4
62.5°	688.0	505.6	496.4	436.4	674.1
65°	618.7	450.2	447.9	397.1	572.6
67.5°	551.8	413.2	411.0	360.1	436.4
70°	480.2	374.0	369.4	320.9	323.2
72.5°	406.3	330.2	325.6	288.6	267.8
75°	332.5	279.3	277.1	251.7	217.0
77.5°	260.9	221.7	226.2	203.2	159.3
80°	187.0	161.6	166.2	145.5	120.1
82.5°	124.7	106.2	110.8	92.3	80.8
85°	69.2	60.0	62.3	48.5	36.9
87.5°	32.3	27.7	27.7	18.5	11.6
90°	6.0	3.8	3.5	2.5	1.4
92.5°	37.1	26.4	24.0	14.7	5.5
95°	91.2	51.4	47.1	30.1	13.1
97.5°	122.9	56.4	52.7	37.7	22.6
100°	134.4	60.7	57.3	43.7	30.1
102.5°	139.7	64.9	61.8	49.1	36.4
105°	143.6	71.2	68.5	57.8	47.0
107.5°	144.4	80.5	78.0	67.9	57.9
110°	143.3	85.7	83.4	74.4	65.3



TEST NUMBER: P934140

CATALOG NUMBER: SQ4-FA-025U-125D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	143.3	92.0	89.8	81.2	72.6
115°	144.6	101.4	99.4	91.5	83.5
117.5°	147.3	110.5	108.7	101.5	94.3
120°	149.5	115.9	114.2	107.4	100.6
122.5°	152.6	122.2	120.4	113.6	106.7
125°	156.9	130.3	128.7	122.4	116.2
127.5°	161.1	138.0	136.4	130.1	123.8
130°	164.2	143.2	141.4	134.7	127.9
132.5°	166.7	147.5	145.7	139.0	132.2
135°	169.5	152.4	150.8	144.6	138.4
137.5°	173.6	158.6	157.1	151.0	144.9
140°	176.1	162.9	161.5	155.8	150.2
142.5°	178.1	166.0	164.7	159.5	154.3
145°	180.9	170.8	169.6	165.1	160.6
147.5°	184.9	176.8	175.7	171.3	166.8
150°	187.0	180.0	179.0	174.9	170.9
152.5°	188.4	182.0	181.3	178.2	175.2
155°	191.4	186.6	186.0	183.7	181.5
157.5°	194.4	191.0	190.5	188.3	186.1
160°	195.8	193.1	192.7	191.0	189.3
162.5°	197.2	195.3	194.9	193.7	192.4
165°	199.3	198.4	198.1	196.9	195.8
167.5°	200.9	200.2	200.0	199.5	198.9
170°	202.3	202.2	202.1	201.6	201.0
172.5°	202.4	202.4	202.4	202.2	202.1
175°	203.2	203.7	203.7	203.7	203.7
177.5°	203.3	203.7	203.7	203.7	203.7
180°	203.7	203.7	203.7	203.7	203.7



TEST NUMBER: P934140
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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	16.84	18.10	17.46	18.73	19.44	19.67	20.93	20.28	21.55	22.26
	3H	17.35	18.48	17.98	19.12	19.87	21.04	22.17	21.67	22.81	23.56
	4H	17.56	18.63	18.21	19.27	20.04	21.50	22.57	22.15	23.22	23.98
	6H	17.70	18.68	18.36	19.34	20.12	21.81	22.79	22.47	23.45	24.23
	8H	17.71	18.65	18.38	19.33	20.11	21.89	22.83	22.56	23.51	24.29
	12H	17.70	18.59	18.37	19.27	20.07	21.94	22.84	22.62	23.51	24.32
4H	2H	17.92	18.99	18.57	19.64	20.40	20.13	21.19	20.78	21.84	22.60
	3H	18.99	19.88	19.65	20.56	21.34	21.67	22.56	22.33	23.24	24.02
	4H	19.28	20.08	19.96	20.78	21.59	22.21	23.01	22.89	23.71	24.52
	6H	19.43	20.13	20.13	20.84	21.66	22.59	23.29	23.30	24.01	24.83
	8H	19.44	20.09	20.15	20.81	21.64	22.71	23.36	23.42	24.08	24.91
	12H	19.43	20.01	20.15	20.75	21.59	22.78	23.37	23.51	24.11	24.95
8H	4H	19.76	20.42	20.47	21.13	21.96	22.36	23.02	23.07	23.73	24.57
	6H	20.04	20.58	20.78	21.34	22.18	22.82	23.36	23.55	24.11	24.95
	8H	20.09	20.57	20.84	21.33	22.18	22.97	23.45	23.72	24.21	25.06
	12H	20.09	20.52	20.84	21.26	22.18	23.09	23.51	23.84	24.26	25.17
12H	4H	19.79	20.38	20.51	21.11	21.95	22.35	22.94	23.07	23.67	24.51
	6H	20.10	20.59	20.85	21.35	22.20	22.82	23.30	23.57	24.06	24.91
	8H	20.19	20.62	20.94	21.36	22.28	23.00	23.42	23.75	24.17	25.08