

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: P934047

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934047
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-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

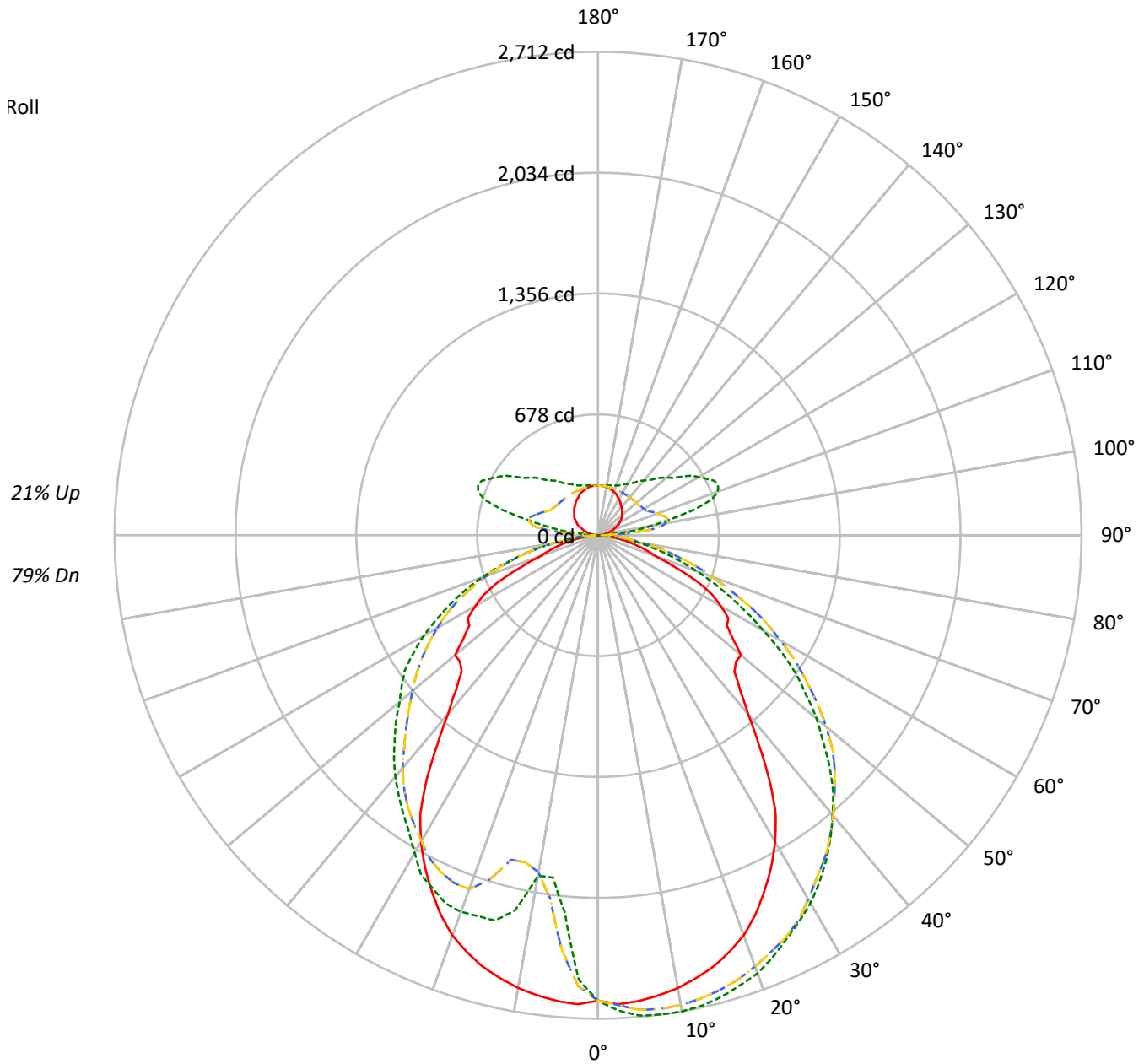
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8578.8 lumens
Efficiency: N/A
Efficacy: 110.6 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°	12113	12113	12113	12113
5°	12203	12227	12203	9614
10°	12122	12044	12122	8611
15°	11990	11784	11990	9840
20°	11740	11475	11740	9860
25°	11226	11024	11226	9651
30°	10562	10649	10562	9193
35°	9416	10176	9416	8688
40°	7846	9618	7846	8307
45°	7011	8966	7011	7869
50°	7448	8188	7448	7430
55°	7008	7349	7008	7175
60°	7223	6242	7223	6572
65°	6549	5160	6549	5768
70°	4534	4113	4534	4834
75°	3977	3040	3977	3640
80°	3204	2010	3204	2189
85°	1840	1064	1840	904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10745 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	2.7
10°-20°	669.1	7.8
20°-30°	1034.3	12.1
30°-40°	1234.8	14.4
40°-50°	1242.0	14.5
50°-60°	1080.7	12.6
60°-70°	766.2	8.9
70°-80°	405.4	4.7
80°-90°	102.0	1.2
90°-100°	136.0	1.6
100°-110°	357.5	4.2
110°-120°	370.7	4.3
120°-130°	297.4	3.5
130°-140°	233.3	2.7
140°-150°	179.1	2.1
150°-160°	129.0	1.5
160°-170°	78.9	0.9
170°-180°	26.7	0.3
0°-30°	1939.1	22.6
0°-40°	3173.9	37.0
0°-60°	5496.6	64.1
0°-90°	6770.2	78.9
90°-120°	864.2	10.1
90°-150°	1574.0	18.3
90°-180°	1809.0	21.1
0°-180°	8578.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2611	2611	2611	2611	2611	
5°	2623	2705	2623	2127	2623	249
15°	2504	2680	2504	2238	2504	705
25°	2206	2500	2206	2188	2206	1013
35°	1677	2230	1677	1904	1677	1038
45°	1082	1838	1082	1613	1082	867
55°	882	1356	882	1324	882	810
65°	612	818	612	914	612	585
75°	232	388	232	464	232	244
85°	40	99	40	84	40	53
90°	2	7	2	7	2	3
95°	18	82	18	82	18	20
105°	64	560	64	560	64	68
115°	114	721	114	721	114	113
125°	159	574	159	574	159	141
135°	190	445	190	445	190	147
145°	220	361	220	361	220	138
155°	249	311	249	311	249	114
165°	268	290	268	290	268	76
175°	279	281	279	281	279	26
180°	279	279	279	279	279	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2633.0	2633.0	2647.7	2652.7	2652.7	2645.3	2637.9	2645.3	2667.6	2674.9	2672.5
5°	2623.1	2642.8	2670.0	2674.9	2679.9	2677.4	2672.5	2677.4	2702.1	2707.1	2709.5
7.5°	2603.3	2640.4	2674.9	2682.3	2689.8	2682.3	2679.9	2684.8	2709.5	2714.5	2714.5
10°	2578.6	2630.4	2670.0	2674.9	2682.3	2674.9	2674.9	2684.8	2709.5	2714.5	2716.9
12.5°	2544.0	2615.7	2652.7	2657.6	2667.6	2665.0	2662.6	2672.5	2697.2	2702.1	2702.1
15°	2504.5	2588.5	2623.1	2628.0	2645.3	2640.4	2640.4	2650.3	2677.4	2684.8	2682.3
17.5°	2450.1	2553.9	2593.4	2600.8	2613.2	2610.7	2613.2	2623.1	2647.7	2652.7	2655.2
20°	2388.5	2507.0	2553.9	2561.3	2573.7	2573.7	2573.7	2586.1	2610.7	2620.6	2620.6
22.5°	2304.4	2457.6	2507.0	2511.9	2526.7	2526.7	2531.7	2548.9	2571.2	2573.7	2573.7
25°	2205.6	2403.2	2445.2	2460.1	2474.9	2482.3	2489.7	2499.6	2507.0	2504.5	2507.0
27.5°	2101.9	2334.1	2388.5	2398.3	2418.1	2425.5	2435.4	2437.8	2440.3	2447.7	2442.8
30°	1985.8	2237.8	2319.3	2329.2	2361.3	2366.2	2356.3	2361.3	2373.6	2378.5	2383.5
32.5°	1854.9	2094.5	2247.7	2269.8	2299.5	2284.7	2282.2	2289.7	2309.4	2309.4	2314.3
35°	1677.0	1983.4	2180.9	2200.7	2222.9	2205.6	2215.5	2218.0	2230.4	2237.8	2235.3
37.5°	1482.0	1887.0	2111.8	2126.6	2143.9	2121.7	2136.5	2143.9	2153.7	2148.9	2148.9
40°	1309.1	1736.4	2030.3	2040.2	2055.0	2037.7	2052.5	2057.5	2062.4	2057.5	2055.0
42.5°	1180.6	1570.9	1943.8	1956.2	1946.3	1958.7	1963.6	1973.4	1966.1	1956.2	1956.2
45°	1081.8	1526.4	1850.0	1864.8	1850.0	1869.8	1877.2	1877.2	1854.9	1850.0	1847.5
47.5°	1049.8	1437.5	1756.1	1756.1	1748.7	1773.4	1785.8	1768.5	1746.2	1738.8	1738.8
50°	1047.2	1338.7	1627.7	1617.8	1652.4	1682.0	1669.7	1652.4	1635.1	1607.9	1607.9
52.5°	951.0	1217.6	1462.2	1499.3	1553.6	1570.9	1551.1	1533.9	1504.2	1491.9	1482.0
55°	881.8	1091.7	1311.6	1385.6	1442.4	1464.7	1427.6	1410.4	1365.9	1358.5	1353.5
57.5°	866.9	908.9	1173.2	1267.1	1336.3	1333.7	1311.6	1279.4	1242.4	1234.9	1232.5
60°	795.3	657.0	1025.0	1136.1	1207.8	1200.3	1180.6	1151.0	1116.4	1111.5	1106.5
62.5°	721.2	476.7	857.0	983.0	1084.3	1081.8	1064.5	1020.0	995.4	983.0	973.1
65°	612.5	400.1	610.1	817.6	963.3	968.2	931.2	899.1	871.9	857.0	854.6
67.5°	466.8	326.0	412.5	681.7	847.2	842.3	795.3	780.5	745.9	738.5	723.6
70°	345.7	217.3	286.5	553.3	733.6	721.2	684.2	666.9	634.8	617.5	607.6
72.5°	286.5	175.4	209.9	429.8	617.5	602.7	570.5	550.8	523.6	508.8	498.9
75°	232.2	185.3	160.6	318.6	501.4	491.6	461.8	442.1	419.9	400.1	402.6
77.5°	170.4	172.9	128.4	234.6	397.6	382.9	365.6	340.9	331.0	311.3	311.3
80°	128.4	135.8	96.4	160.6	286.5	286.5	271.7	254.4	237.1	227.2	227.2
82.5°	86.5	86.5	71.6	101.2	195.2	187.7	177.9	172.9	163.0	158.1	158.1
85°	39.5	49.4	44.5	61.8	106.2	111.1	111.1	106.2	103.8	98.8	101.2
87.5°	12.3	22.2	27.2	34.6	54.3	56.8	59.3	59.3	59.3	61.8	61.8
90°	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4	7.1	7.1
92.5°	7.5	20.2	33.0	36.2	50.8	70.4	80.1	70.2	50.5	35.6	34.2
95°	17.9	41.2	64.6	70.4	125.0	197.8	234.2	209.0	158.6	120.8	116.5
97.5°	31.1	51.7	72.2	77.3	168.3	289.8	350.5	334.6	302.8	278.8	270.7
100°	41.2	59.8	78.4	83.1	184.1	318.8	386.2	387.4	389.8	391.5	381.8
102.5°	49.8	67.2	84.6	88.9	191.4	328.1	396.4	416.7	457.3	487.7	479.4
105°	64.4	79.2	93.9	97.6	196.8	329.1	395.3	440.8	531.8	600.1	595.6
107.5°	79.4	93.1	106.8	110.3	197.8	314.4	372.8	436.2	563.3	658.5	659.6
110°	89.5	101.9	114.3	117.4	196.3	301.4	354.1	425.0	567.0	673.5	678.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	99.5	111.2	123.0	126.0	196.4	290.1	337.1	409.7	554.9	663.9	671.1
115°	114.4	125.3	136.2	138.9	198.2	277.1	316.6	386.6	526.6	631.6	641.5
117.5°	129.2	139.1	149.0	151.5	201.9	269.0	302.6	365.8	492.0	586.8	597.8
120°	137.8	147.1	156.5	158.8	204.9	266.3	297.0	354.6	470.1	556.6	567.3
122.5°	146.2	155.6	165.1	167.4	209.2	264.8	292.7	344.6	448.6	526.5	537.1
125°	159.2	167.8	176.3	178.4	215.0	263.7	288.0	332.1	420.4	486.6	496.3
127.5°	169.6	178.2	186.9	189.1	220.8	262.9	284.1	322.0	397.8	454.6	462.9
130°	175.3	184.6	193.9	196.2	225.0	263.4	282.6	316.3	383.8	434.4	441.9
132.5°	181.1	190.4	199.7	202.0	228.4	263.7	281.3	311.4	371.8	417.2	424.0
135°	189.7	198.2	206.7	208.8	232.2	263.4	279.0	304.3	354.9	392.9	398.7
137.5°	198.4	206.9	215.3	217.4	237.8	265.0	278.6	300.0	342.8	374.8	379.6
140°	205.7	213.5	221.2	223.2	241.2	265.3	277.3	295.8	332.8	360.4	364.9
142.5°	211.4	218.5	225.7	227.5	244.1	266.3	277.3	293.6	326.0	350.3	354.2
145°	220.0	226.3	232.5	234.1	247.9	266.3	275.5	288.7	315.3	335.2	338.1
147.5°	228.6	234.7	240.8	242.3	253.3	268.1	275.5	285.9	306.8	322.4	324.8
150°	234.2	239.8	245.2	246.6	256.2	269.0	275.5	284.2	301.9	315.1	317.1
152.5°	240.0	244.1	248.4	249.4	258.1	269.7	275.5	282.9	298.0	309.3	310.8
155°	248.6	251.7	254.8	255.5	262.2	271.1	275.5	281.4	293.4	302.4	303.3
157.5°	255.0	258.0	261.0	261.7	266.3	272.4	275.5	280.1	289.4	296.4	297.0
160°	259.3	261.6	264.0	264.5	268.2	273.0	275.5	279.5	287.4	293.4	293.8
162.5°	263.6	265.4	267.0	267.5	270.1	273.7	275.5	278.8	285.6	290.6	291.0
165°	268.4	269.9	271.5	271.9	273.1	274.7	275.5	277.9	282.7	286.3	286.7
167.5°	272.7	273.4	274.1	274.3	275.4	276.7	277.3	278.9	282.1	284.4	284.6
170°	275.5	276.2	277.0	277.1	277.2	277.3	277.3	278.9	282.1	284.4	284.4
172.5°	277.0	277.1	277.3	277.3	277.3	277.3	277.3	278.5	281.1	282.9	282.7
175°	279.0	279.0	279.0	279.0	278.4	277.7	277.3	278.1	279.7	280.9	280.9
177.5°	279.0	279.0	279.0	279.0	278.5	278.0	277.7	278.4	279.6	280.5	280.3
180°	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2677.4	2670.0	2677.4	2672.5	2674.9	2667.6	2645.3	2637.9	2645.3	2652.7	2652.7
5°	2709.5	2704.6	2709.5	2709.5	2707.1	2702.1	2677.4	2672.5	2677.4	2679.9	2674.9
7.5°	2719.4	2712.0	2719.4	2714.5	2714.5	2709.5	2684.8	2679.9	2682.3	2689.8	2682.3
10°	2719.4	2712.0	2719.4	2716.9	2714.5	2709.5	2684.8	2674.9	2674.9	2682.3	2674.9
12.5°	2707.1	2702.1	2707.1	2702.1	2702.1	2697.2	2672.5	2662.6	2665.0	2667.6	2657.6
15°	2687.3	2679.9	2687.3	2682.3	2684.8	2677.4	2650.3	2640.4	2640.4	2645.3	2628.0
17.5°	2657.6	2647.7	2657.6	2655.2	2652.7	2647.7	2623.1	2613.2	2610.7	2613.2	2600.8
20°	2623.1	2615.7	2623.1	2620.6	2620.6	2610.7	2586.1	2573.7	2573.7	2573.7	2561.3
22.5°	2568.8	2561.3	2568.8	2573.7	2573.7	2571.2	2548.9	2531.7	2526.7	2526.7	2511.9
25°	2507.0	2499.6	2507.0	2507.0	2504.5	2507.0	2499.6	2489.7	2482.3	2474.9	2460.1
27.5°	2447.7	2442.8	2447.7	2442.8	2447.7	2440.3	2437.8	2435.4	2425.5	2418.1	2398.3
30°	2388.5	2383.5	2388.5	2383.5	2378.5	2373.6	2361.3	2356.3	2366.2	2361.3	2329.2
32.5°	2314.3	2309.4	2314.3	2314.3	2309.4	2309.4	2289.7	2282.2	2284.7	2299.5	2269.8
35°	2237.8	2230.4	2237.8	2235.3	2237.8	2230.4	2218.0	2215.5	2205.6	2222.9	2200.7
37.5°	2148.9	2141.4	2148.9	2148.9	2148.9	2153.7	2143.9	2136.5	2121.7	2143.9	2126.6
40°	2057.5	2047.6	2057.5	2055.0	2057.5	2062.4	2057.5	2052.5	2037.7	2055.0	2040.2
42.5°	1953.7	1951.3	1953.7	1956.2	1956.2	1966.1	1973.4	1963.6	1958.7	1946.3	1956.2
45°	1842.6	1837.6	1842.6	1847.5	1850.0	1854.9	1877.2	1877.2	1869.8	1850.0	1864.8
47.5°	1724.0	1711.6	1724.0	1738.8	1738.8	1746.2	1768.5	1785.8	1773.4	1748.7	1756.1
50°	1598.1	1600.5	1598.1	1607.9	1607.9	1635.1	1652.4	1669.7	1682.0	1652.4	1617.8
52.5°	1474.6	1472.1	1474.6	1482.0	1491.9	1504.2	1533.9	1551.1	1570.9	1553.6	1499.3
55°	1351.0	1356.0	1351.0	1353.5	1358.5	1365.9	1410.4	1427.6	1464.7	1442.4	1385.6
57.5°	1227.5	1220.2	1227.5	1232.5	1234.9	1242.4	1279.4	1311.6	1333.7	1336.3	1267.1
60°	1084.3	1074.4	1084.3	1106.5	1111.5	1116.4	1151.0	1180.6	1200.3	1207.8	1136.1
62.5°	958.4	941.1	958.4	973.1	983.0	995.4	1020.0	1064.5	1081.8	1084.3	983.0
65°	825.0	817.6	825.0	854.6	857.0	871.9	899.1	931.2	968.2	963.3	817.6
67.5°	703.9	703.9	703.9	723.6	738.5	745.9	780.5	795.3	842.3	847.2	681.7
70°	592.8	590.4	592.8	607.6	617.5	634.8	666.9	684.2	721.2	733.6	553.3
72.5°	486.6	484.1	486.6	498.9	508.8	523.6	550.8	570.5	602.7	617.5	429.8
75°	392.8	387.8	392.8	402.6	400.1	419.9	442.1	461.8	491.6	501.4	318.6
77.5°	301.3	301.3	301.3	311.3	311.3	331.0	340.9	365.6	382.9	397.6	234.6
80°	224.8	222.3	224.8	227.2	227.2	237.1	254.4	271.7	286.5	286.5	160.6
82.5°	158.1	153.1	158.1	158.1	158.1	163.0	172.9	177.9	187.7	195.2	101.2
85°	98.8	98.8	98.8	101.2	98.8	103.8	106.2	111.1	111.1	106.2	61.8
87.5°	64.2	61.8	64.2	61.8	61.8	59.3	59.3	59.3	56.8	54.3	34.6
90°	7.1	7.1	7.1	7.1	7.1	9.4	12.6	14.2	12.2	8.2	5.2
92.5°	28.5	22.8	28.5	34.2	35.6	50.5	70.2	80.1	70.4	50.8	36.2
95°	99.4	82.2	99.4	116.5	120.8	158.6	209.0	234.2	197.8	125.0	70.4
97.5°	238.0	205.4	238.0	270.7	278.8	302.8	334.6	350.5	289.8	168.3	77.3
100°	342.9	304.1	342.9	381.8	391.5	389.8	387.4	386.2	318.8	184.1	83.1
102.5°	446.1	412.9	446.1	479.4	487.7	457.3	416.7	396.4	328.1	191.4	88.9
105°	577.7	559.8	577.7	595.6	600.1	531.8	440.8	395.3	329.1	196.8	97.6
107.5°	663.9	668.2	663.9	659.6	658.5	563.3	436.2	372.8	314.4	197.8	110.3
110°	696.7	715.4	696.7	678.1	673.5	567.0	425.0	354.1	301.4	196.3	117.4



TEST NUMBER: P934047

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	699.7	728.3	699.7	671.1	663.9	554.9	409.7	337.1	290.1	196.4	126.0
115°	681.2	720.8	681.2	641.5	631.6	526.6	386.6	316.6	277.1	198.2	138.9
117.5°	641.9	685.9	641.9	597.8	586.8	492.0	365.8	302.6	269.0	201.9	151.5
120°	610.1	652.9	610.1	567.3	556.6	470.1	354.6	297.0	266.3	204.9	158.8
122.5°	579.2	621.4	579.2	537.1	526.5	448.6	344.6	292.7	264.8	209.2	167.4
125°	535.2	574.1	535.2	496.3	486.6	420.4	332.1	288.0	263.7	215.0	178.4
127.5°	495.6	528.4	495.6	462.9	454.6	397.8	322.0	284.1	262.9	220.8	189.1
130°	472.2	502.5	472.2	441.9	434.4	383.8	316.3	282.6	263.4	225.0	196.2
132.5°	451.1	478.2	451.1	424.0	417.2	371.8	311.4	281.3	263.7	228.4	202.0
135°	422.0	445.4	422.0	398.7	392.9	354.9	304.3	279.0	263.4	232.2	208.8
137.5°	398.7	417.9	398.7	379.6	374.8	342.8	300.0	278.6	265.0	237.8	217.4
140°	382.8	400.7	382.8	364.9	360.4	332.8	295.8	277.3	265.3	241.2	223.2
142.5°	369.6	384.9	369.6	354.2	350.3	326.0	293.6	277.3	266.3	244.1	227.5
145°	349.8	361.4	349.8	338.1	335.2	315.3	288.7	275.5	266.3	247.9	234.1
147.5°	334.4	344.2	334.4	324.8	322.4	306.8	285.9	275.5	268.1	253.3	242.3
150°	324.9	332.8	324.9	317.1	315.1	301.9	284.2	275.5	269.0	256.2	246.6
152.5°	316.7	322.6	316.7	310.8	309.3	298.0	282.9	275.5	269.7	258.1	249.4
155°	307.2	311.2	307.2	303.3	302.4	293.4	281.4	275.5	271.1	262.2	255.5
157.5°	299.9	302.6	299.9	297.0	296.4	289.4	280.1	275.5	272.4	266.3	261.7
160°	295.4	297.0	295.4	293.8	293.4	287.4	279.5	275.5	273.0	268.2	264.5
162.5°	292.5	294.0	292.5	291.0	290.6	285.6	278.8	275.5	273.7	270.1	267.5
165°	288.3	289.9	288.3	286.7	286.3	282.7	277.9	275.5	274.7	273.1	271.9
167.5°	285.3	285.9	285.3	284.6	284.4	282.1	278.9	277.3	276.7	275.4	274.3
170°	284.4	284.4	284.4	284.4	284.4	282.1	278.9	277.3	277.3	277.2	277.1
172.5°	282.2	281.6	282.2	282.7	282.9	281.1	278.5	277.3	277.3	277.3	277.3
175°	280.9	280.9	280.9	280.9	280.9	279.7	278.1	277.3	277.7	278.4	279.0
177.5°	279.7	279.0	279.7	280.3	280.5	279.6	278.4	277.7	278.0	278.5	279.0
180°	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0



TEST NUMBER: P934047

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2647.7	2633.0	2633.0	2608.3	2598.4	2591.0	2578.6	2541.6	2531.7	2521.8	2536.6
5°	2670.0	2642.8	2623.1	2578.6	2541.6	2526.7	2479.8	2390.9	2331.6	2287.1	2262.5
7.5°	2674.9	2640.4	2603.3	2534.2	2445.2	2405.7	2262.5	2099.4	2055.0	2015.5	1990.7
10°	2670.0	2630.4	2578.6	2474.9	2264.9	2195.8	2052.5	1946.3	1919.1	1911.8	1919.1
12.5°	2652.7	2615.7	2544.0	2371.2	2077.2	2030.3	1946.3	1884.6	1879.6	1891.9	1958.7
15°	2623.1	2588.5	2504.5	2232.8	1973.4	1938.9	1879.6	1857.4	1884.6	1971.0	2171.0
17.5°	2593.4	2553.9	2450.1	2097.0	1894.5	1869.8	1827.7	1872.2	2025.3	2141.4	2208.1
20°	2553.9	2507.0	2388.5	1998.2	1837.6	1815.4	1795.7	1995.7	2111.8	2153.7	2190.9
22.5°	2507.0	2457.6	2304.4	1929.0	1778.4	1761.1	1773.4	2064.9	2111.8	2141.4	2173.6
25°	2445.2	2403.2	2205.6	1874.6	1731.4	1711.6	1758.6	2057.5	2084.6	2092.1	2156.3
27.5°	2388.5	2334.1	2101.9	1825.3	1674.6	1667.2	1771.0	2025.3	2045.1	2052.5	2121.7
30°	2319.3	2237.8	1985.8	1773.4	1615.4	1612.8	1773.4	1985.8	1980.9	2000.6	2069.8
32.5°	2247.7	2094.5	1854.9	1709.2	1558.5	1556.1	1756.1	1926.5	1921.6	1948.8	2000.6
35°	2180.9	1983.4	1677.0	1635.1	1486.9	1489.4	1714.2	1857.4	1859.9	1884.6	1916.7
37.5°	2111.8	1887.0	1482.0	1553.6	1417.8	1417.8	1657.3	1793.1	1788.3	1795.7	1840.1
40°	2030.3	1736.4	1309.1	1447.4	1353.5	1346.1	1588.2	1724.0	1706.7	1704.2	1766.0
42.5°	1943.8	1570.9	1180.6	1306.6	1279.4	1269.5	1504.2	1640.0	1607.9	1615.4	1694.3
45°	1850.0	1526.4	1081.8	1104.1	1202.9	1195.5	1412.8	1543.7	1521.5	1541.2	1622.7
47.5°	1756.1	1437.5	1049.8	916.4	1121.4	1118.8	1311.6	1449.8	1437.5	1457.3	1543.7
50°	1627.7	1338.7	1047.2	785.4	1030.0	1039.9	1190.5	1358.5	1358.5	1375.8	1467.1
52.5°	1462.2	1217.6	951.0	711.3	923.8	953.4	1084.3	1279.4	1284.4	1301.7	1383.2
55°	1311.6	1091.7	881.8	654.6	797.8	862.0	980.6	1197.9	1207.8	1225.1	1299.1
57.5°	1173.2	908.9	866.9	587.8	681.7	743.5	889.2	1118.8	1123.8	1138.7	1210.3
60°	1025.0	657.0	795.3	516.2	580.5	627.4	805.2	1025.0	1042.3	1052.2	1114.0
62.5°	857.0	476.7	721.2	466.8	531.0	540.9	736.1	936.1	958.4	965.7	1002.8
65°	610.1	400.1	612.5	424.8	479.1	481.7	662.0	844.7	864.5	876.8	904.0
67.5°	412.5	326.0	466.8	385.3	439.7	442.1	590.4	738.5	765.7	775.5	792.8
70°	286.5	217.3	345.7	343.3	395.2	400.1	513.7	642.1	666.9	674.3	684.2
72.5°	209.9	175.4	286.5	308.7	348.3	353.2	434.7	533.5	558.2	565.6	570.5
75°	160.6	185.3	232.2	269.2	296.4	298.8	355.7	434.7	452.0	457.0	459.4
77.5°	128.4	172.9	170.4	217.3	242.1	237.1	279.1	335.9	350.7	350.7	350.7
80°	96.4	135.8	128.4	155.6	177.9	172.9	200.0	239.6	244.5	249.5	246.9
82.5°	71.6	86.5	86.5	98.8	118.5	113.7	133.4	155.6	155.6	155.6	160.6
85°	44.5	49.4	39.5	51.9	66.6	64.2	74.1	83.9	86.5	86.5	81.5
87.5°	27.2	22.2	12.3	19.7	29.6	29.6	34.6	37.0	34.6	34.6	34.6
90°	4.9	3.4	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4
92.5°	33.0	20.2	7.5	20.2	33.0	36.2	50.8	70.4	80.1	70.2	50.5
95°	64.6	41.2	17.9	41.2	64.6	70.4	125.0	197.8	234.2	209.0	158.6
97.5°	72.2	51.7	31.1	51.7	72.2	77.3	168.3	289.8	350.5	334.6	302.8
100°	78.4	59.8	41.2	59.8	78.4	83.1	184.1	318.8	386.2	387.4	389.8
102.5°	84.6	67.2	49.8	67.2	84.6	88.9	191.4	328.1	396.4	416.7	457.3
105°	93.9	79.2	64.4	79.2	93.9	97.6	196.8	329.1	395.3	440.8	531.8
107.5°	106.8	93.1	79.4	93.1	106.8	110.3	197.8	314.4	372.8	436.2	563.3
110°	114.3	101.9	89.5	101.9	114.3	117.4	196.3	301.4	354.1	425.0	567.0



TEST NUMBER: P934047

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	123.0	111.2	99.5	111.2	123.0	126.0	196.4	290.1	337.1	409.7	554.9
115°	136.2	125.3	114.4	125.3	136.2	138.9	198.2	277.1	316.6	386.6	526.6
117.5°	149.0	139.1	129.2	139.1	149.0	151.5	201.9	269.0	302.6	365.8	492.0
120°	156.5	147.1	137.8	147.1	156.5	158.8	204.9	266.3	297.0	354.6	470.1
122.5°	165.1	155.6	146.2	155.6	165.1	167.4	209.2	264.8	292.7	344.6	448.6
125°	176.3	167.8	159.2	167.8	176.3	178.4	215.0	263.7	288.0	332.1	420.4
127.5°	186.9	178.2	169.6	178.2	186.9	189.1	220.8	262.9	284.1	322.0	397.8
130°	193.9	184.6	175.3	184.6	193.9	196.2	225.0	263.4	282.6	316.3	383.8
132.5°	199.7	190.4	181.1	190.4	199.7	202.0	228.4	263.7	281.3	311.4	371.8
135°	206.7	198.2	189.7	198.2	206.7	208.8	232.2	263.4	279.0	304.3	354.9
137.5°	215.3	206.9	198.4	206.9	215.3	217.4	237.8	265.0	278.6	300.0	342.8
140°	221.2	213.5	205.7	213.5	221.2	223.2	241.2	265.3	277.3	295.8	332.8
142.5°	225.7	218.5	211.4	218.5	225.7	227.5	244.1	266.3	277.3	293.6	326.0
145°	232.5	226.3	220.0	226.3	232.5	234.1	247.9	266.3	275.5	288.7	315.3
147.5°	240.8	234.7	228.6	234.7	240.8	242.3	253.3	268.1	275.5	285.9	306.8
150°	245.2	239.8	234.2	239.8	245.2	246.6	256.2	269.0	275.5	284.2	301.9
152.5°	248.4	244.1	240.0	244.1	248.4	249.4	258.1	269.7	275.5	282.9	298.0
155°	254.8	251.7	248.6	251.7	254.8	255.5	262.2	271.1	275.5	281.4	293.4
157.5°	261.0	258.0	255.0	258.0	261.0	261.7	266.3	272.4	275.5	280.1	289.4
160°	264.0	261.6	259.3	261.6	264.0	264.5	268.2	273.0	275.5	279.5	287.4
162.5°	267.0	265.4	263.6	265.4	267.0	267.5	270.1	273.7	275.5	278.8	285.6
165°	271.5	269.9	268.4	269.9	271.5	271.9	273.1	274.7	275.5	277.9	282.7
167.5°	274.1	273.4	272.7	273.4	274.1	274.3	275.4	276.7	277.3	278.9	282.1
170°	277.0	276.2	275.5	276.2	277.0	277.1	277.2	277.3	277.3	278.9	282.1
172.5°	277.3	277.1	277.0	277.1	277.3	277.3	277.3	277.3	277.3	278.5	281.1
175°	279.0	279.0	279.0	279.0	279.0	279.0	278.4	277.7	277.3	278.1	279.7
177.5°	279.0	279.0	279.0	279.0	279.0	279.0	278.5	278.0	277.7	278.4	279.6
180°	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0



TEST NUMBER: P934047

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2519.3	2511.9	2521.8	2494.6	2521.8	2511.9	2519.3	2536.6	2521.8	2531.7	2541.6
5°	2210.6	2198.2	2158.7	2126.6	2158.7	2198.2	2210.6	2262.5	2287.1	2331.6	2390.9
7.5°	1976.0	1966.1	1956.2	1936.4	1956.2	1966.1	1976.0	1990.7	2015.5	2055.0	2099.4
10°	1924.1	1926.5	1941.4	1938.9	1941.4	1926.5	1924.1	1919.1	1911.8	1919.1	1946.3
12.5°	2057.5	2079.7	2161.2	2156.3	2161.2	2079.7	2057.5	1958.7	1891.9	1879.6	1884.6
15°	2210.6	2218.0	2235.3	2237.8	2235.3	2218.0	2210.6	2171.0	1971.0	1884.6	1857.4
17.5°	2225.4	2227.9	2240.2	2240.2	2240.2	2227.9	2225.4	2208.1	2141.4	2025.3	1872.2
20°	2213.1	2218.0	2242.7	2247.7	2242.7	2218.0	2213.1	2190.9	2153.7	2111.8	1995.7
22.5°	2208.1	2218.0	2237.8	2235.3	2237.8	2218.0	2208.1	2173.6	2141.4	2111.8	2064.9
25°	2183.4	2183.4	2185.9	2188.3	2185.9	2183.4	2183.4	2156.3	2092.1	2084.6	2057.5
27.5°	2131.6	2136.5	2151.3	2148.9	2151.3	2136.5	2131.6	2121.7	2052.5	2045.1	2025.3
30°	2084.6	2079.7	2067.3	2057.5	2067.3	2079.7	2084.6	2069.8	2000.6	1980.9	1985.8
32.5°	2005.6	1993.3	1980.9	1973.4	1980.9	1993.3	2005.6	2000.6	1948.8	1921.6	1926.5
35°	1911.8	1914.2	1911.8	1904.3	1911.8	1914.2	1911.8	1916.7	1884.6	1859.9	1857.4
37.5°	1845.0	1850.0	1847.5	1837.6	1847.5	1850.0	1845.0	1840.1	1795.7	1788.3	1793.1
40°	1775.8	1778.4	1775.8	1768.5	1775.8	1778.4	1775.8	1766.0	1704.2	1706.7	1724.0
42.5°	1709.2	1706.7	1699.3	1694.3	1699.3	1706.7	1709.2	1694.3	1615.4	1607.9	1640.0
45°	1632.7	1635.1	1620.3	1612.8	1620.3	1635.1	1632.7	1622.7	1541.2	1521.5	1543.7
47.5°	1556.1	1556.1	1543.7	1536.3	1543.7	1556.1	1556.1	1543.7	1457.3	1437.5	1449.8
50°	1474.6	1472.1	1454.8	1452.3	1454.8	1472.1	1474.6	1467.1	1375.8	1358.5	1358.5
52.5°	1380.7	1380.7	1383.2	1388.1	1383.2	1380.7	1380.7	1383.2	1301.7	1284.4	1279.4
55°	1299.1	1301.7	1319.0	1323.9	1319.0	1301.7	1299.1	1299.1	1225.1	1207.8	1197.9
57.5°	1215.2	1215.2	1227.5	1227.5	1227.5	1215.2	1215.2	1210.3	1138.7	1123.8	1118.8
60°	1118.8	1123.8	1133.7	1131.3	1133.7	1123.8	1118.8	1114.0	1052.2	1042.3	1025.0
62.5°	1017.6	1022.6	1025.0	1020.0	1025.0	1022.6	1017.6	1002.8	965.7	958.4	936.1
65°	911.4	916.4	918.8	913.9	918.8	916.4	911.4	904.0	876.8	864.5	844.7
67.5°	802.7	800.3	797.8	807.7	797.8	800.3	802.7	792.8	775.5	765.7	738.5
70°	691.6	691.6	689.1	694.0	689.1	691.6	691.6	684.2	674.3	666.9	642.1
72.5°	573.1	570.5	580.5	573.1	580.5	570.5	573.1	570.5	565.6	558.2	533.5
75°	457.0	461.8	457.0	464.4	457.0	461.8	457.0	459.4	457.0	452.0	434.7
77.5°	348.3	353.2	348.3	348.3	348.3	353.2	348.3	350.7	350.7	350.7	335.9
80°	246.9	244.5	244.5	242.1	244.5	244.5	246.9	246.9	249.5	244.5	239.6
82.5°	158.1	155.6	155.6	160.6	155.6	155.6	158.1	160.6	155.6	155.6	155.6
85°	86.5	88.9	83.9	83.9	83.9	88.9	86.5	81.5	86.5	86.5	83.9
87.5°	32.2	29.6	29.6	29.6	29.6	29.6	32.2	34.6	34.6	34.6	37.0
90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.4	12.6	14.2	12.2
92.5°	35.6	34.2	28.5	22.8	28.5	34.2	35.6	50.5	70.2	80.1	70.4
95°	120.8	116.5	99.4	82.2	99.4	116.5	120.8	158.6	209.0	234.2	197.8
97.5°	278.8	270.7	238.0	205.4	238.0	270.7	278.8	302.8	334.6	350.5	289.8
100°	391.5	381.8	342.9	304.1	342.9	381.8	391.5	389.8	387.4	386.2	318.8
102.5°	487.7	479.4	446.1	412.9	446.1	479.4	487.7	457.3	416.7	396.4	328.1
105°	600.1	595.6	577.7	559.8	577.7	595.6	600.1	531.8	440.8	395.3	329.1
107.5°	658.5	659.6	663.9	668.2	663.9	659.6	658.5	563.3	436.2	372.8	314.4
110°	673.5	678.1	696.7	715.4	696.7	678.1	673.5	567.0	425.0	354.1	301.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	663.9	671.1	699.7	728.3	699.7	671.1	663.9	554.9	409.7	337.1	290.1
115°	631.6	641.5	681.2	720.8	681.2	641.5	631.6	526.6	386.6	316.6	277.1
117.5°	586.8	597.8	641.9	685.9	641.9	597.8	586.8	492.0	365.8	302.6	269.0
120°	556.6	567.3	610.1	652.9	610.1	567.3	556.6	470.1	354.6	297.0	266.3
122.5°	526.5	537.1	579.2	621.4	579.2	537.1	526.5	448.6	344.6	292.7	264.8
125°	486.6	496.3	535.2	574.1	535.2	496.3	486.6	420.4	332.1	288.0	263.7
127.5°	454.6	462.9	495.6	528.4	495.6	462.9	454.6	397.8	322.0	284.1	262.9
130°	434.4	441.9	472.2	502.5	472.2	441.9	434.4	383.8	316.3	282.6	263.4
132.5°	417.2	424.0	451.1	478.2	451.1	424.0	417.2	371.8	311.4	281.3	263.7
135°	392.9	398.7	422.0	445.4	422.0	398.7	392.9	354.9	304.3	279.0	263.4
137.5°	374.8	379.6	398.7	417.9	398.7	379.6	374.8	342.8	300.0	278.6	265.0
140°	360.4	364.9	382.8	400.7	382.8	364.9	360.4	332.8	295.8	277.3	265.3
142.5°	350.3	354.2	369.6	384.9	369.6	354.2	350.3	326.0	293.6	277.3	266.3
145°	335.2	338.1	349.8	361.4	349.8	338.1	335.2	315.3	288.7	275.5	266.3
147.5°	322.4	324.8	334.4	344.2	334.4	324.8	322.4	306.8	285.9	275.5	268.1
150°	315.1	317.1	324.9	332.8	324.9	317.1	315.1	301.9	284.2	275.5	269.0
152.5°	309.3	310.8	316.7	322.6	316.7	310.8	309.3	298.0	282.9	275.5	269.7
155°	302.4	303.3	307.2	311.2	307.2	303.3	302.4	293.4	281.4	275.5	271.1
157.5°	296.4	297.0	299.9	302.6	299.9	297.0	296.4	289.4	280.1	275.5	272.4
160°	293.4	293.8	295.4	297.0	295.4	293.8	293.4	287.4	279.5	275.5	273.0
162.5°	290.6	291.0	292.5	294.0	292.5	291.0	290.6	285.6	278.8	275.5	273.7
165°	286.3	286.7	288.3	289.9	288.3	286.7	286.3	282.7	277.9	275.5	274.7
167.5°	284.4	284.6	285.3	285.9	285.3	284.6	284.4	282.1	278.9	277.3	276.7
170°	284.4	284.4	284.4	284.4	284.4	284.4	284.4	282.1	278.9	277.3	277.3
172.5°	282.9	282.7	282.2	281.6	282.2	282.7	282.9	281.1	278.5	277.3	277.3
175°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	279.7	278.1	277.3	277.7
177.5°	280.5	280.3	279.7	279.0	279.7	280.3	280.5	279.6	278.4	277.7	278.0
180°	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2578.6	2591.0	2598.4	2608.3	2633.0
5°	2479.8	2526.7	2541.6	2578.6	2623.1
7.5°	2262.5	2405.7	2445.2	2534.2	2603.3
10°	2052.5	2195.8	2264.9	2474.9	2578.6
12.5°	1946.3	2030.3	2077.2	2371.2	2544.0
15°	1879.6	1938.9	1973.4	2232.8	2504.5
17.5°	1827.7	1869.8	1894.5	2097.0	2450.1
20°	1795.7	1815.4	1837.6	1998.2	2388.5
22.5°	1773.4	1761.1	1778.4	1929.0	2304.4
25°	1758.6	1711.6	1731.4	1874.6	2205.6
27.5°	1771.0	1667.2	1674.6	1825.3	2101.9
30°	1773.4	1612.8	1615.4	1773.4	1985.8
32.5°	1756.1	1556.1	1558.5	1709.2	1854.9
35°	1714.2	1489.4	1486.9	1635.1	1677.0
37.5°	1657.3	1417.8	1417.8	1553.6	1482.0
40°	1588.2	1346.1	1353.5	1447.4	1309.1
42.5°	1504.2	1269.5	1279.4	1306.6	1180.6
45°	1412.8	1195.5	1202.9	1104.1	1081.8
47.5°	1311.6	1118.8	1121.4	916.4	1049.8
50°	1190.5	1039.9	1030.0	785.4	1047.2
52.5°	1084.3	953.4	923.8	711.3	951.0
55°	980.6	862.0	797.8	654.6	881.8
57.5°	889.2	743.5	681.7	587.8	866.9
60°	805.2	627.4	580.5	516.2	795.3
62.5°	736.1	540.9	531.0	466.8	721.2
65°	662.0	481.7	479.1	424.8	612.5
67.5°	590.4	442.1	439.7	385.3	466.8
70°	513.7	400.1	395.2	343.3	345.7
72.5°	434.7	353.2	348.3	308.7	286.5
75°	355.7	298.8	296.4	269.2	232.2
77.5°	279.1	237.1	242.1	217.3	170.4
80°	200.0	172.9	177.9	155.6	128.4
82.5°	133.4	113.7	118.5	98.8	86.5
85°	74.1	64.2	66.6	51.9	39.5
87.5°	34.6	29.6	29.6	19.7	12.3
90°	8.2	5.2	4.9	3.4	1.9
92.5°	50.8	36.2	33.0	20.2	7.5
95°	125.0	70.4	64.6	41.2	17.9
97.5°	168.3	77.3	72.2	51.7	31.1
100°	184.1	83.1	78.4	59.8	41.2
102.5°	191.4	88.9	84.6	67.2	49.8
105°	196.8	97.6	93.9	79.2	64.4
107.5°	197.8	110.3	106.8	93.1	79.4
110°	196.3	117.4	114.3	101.9	89.5



TEST NUMBER: P934047

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	196.4	126.0	123.0	111.2	99.5
115°	198.2	138.9	136.2	125.3	114.4
117.5°	201.9	151.5	149.0	139.1	129.2
120°	204.9	158.8	156.5	147.1	137.8
122.5°	209.2	167.4	165.1	155.6	146.2
125°	215.0	178.4	176.3	167.8	159.2
127.5°	220.8	189.1	186.9	178.2	169.6
130°	225.0	196.2	193.9	184.6	175.3
132.5°	228.4	202.0	199.7	190.4	181.1
135°	232.2	208.8	206.7	198.2	189.7
137.5°	237.8	217.4	215.3	206.9	198.4
140°	241.2	223.2	221.2	213.5	205.7
142.5°	244.1	227.5	225.7	218.5	211.4
145°	247.9	234.1	232.5	226.3	220.0
147.5°	253.3	242.3	240.8	234.7	228.6
150°	256.2	246.6	245.2	239.8	234.2
152.5°	258.1	249.4	248.4	244.1	240.0
155°	262.2	255.5	254.8	251.7	248.6
157.5°	266.3	261.7	261.0	258.0	255.0
160°	268.2	264.5	264.0	261.6	259.3
162.5°	270.1	267.5	267.0	265.4	263.6
165°	273.1	271.9	271.5	269.9	268.4
167.5°	275.4	274.3	274.1	273.4	272.7
170°	277.2	277.1	277.0	276.2	275.5
172.5°	277.3	277.3	277.3	277.1	277.0
175°	278.4	279.0	279.0	279.0	279.0
177.5°	278.5	279.0	279.0	279.0	279.0
180°	279.0	279.0	279.0	279.0	279.0



TEST NUMBER: P934047
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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	15.81	17.01	16.47	17.68	18.47	18.64	19.84	19.31	20.52	21.31
	3H	16.31	17.39	16.98	18.07	18.90	20.02	21.10	20.69	21.78	22.61
	4H	16.52	17.53	17.21	18.23	19.07	20.48	21.49	21.17	22.19	23.03
	6H	16.65	17.59	17.36	18.30	19.15	20.78	21.72	21.49	22.43	23.28
	8H	16.66	17.56	17.38	18.29	19.14	20.87	21.76	21.59	22.49	23.34
	12H	16.64	17.50	17.37	18.22	19.10	20.92	21.77	21.64	22.50	23.38
4H	2H	16.88	17.90	17.58	18.60	19.43	19.09	20.11	19.79	20.81	21.64
	3H	17.94	18.79	18.65	19.52	20.38	20.63	21.48	21.34	22.22	23.07
	4H	18.23	19.00	18.96	19.74	20.62	21.18	21.94	21.90	22.68	23.57
	6H	18.37	19.04	19.12	19.80	20.70	21.56	22.23	22.31	22.99	23.89
	8H	18.39	19.01	19.14	19.77	20.67	21.68	22.30	22.43	23.06	23.97
	12H	18.37	18.93	19.14	19.71	20.62	21.75	22.31	22.52	23.10	24.01
8H	4H	18.71	19.33	19.46	20.09	21.00	21.33	21.95	22.08	22.71	23.61
	6H	18.99	19.50	19.77	20.31	21.21	21.78	22.30	22.56	23.10	24.01
	8H	19.03	19.49	19.83	20.30	21.22	21.94	22.40	22.73	23.20	24.12
	12H	19.03	19.44	19.83	20.23	21.21	22.05	22.46	22.85	23.25	24.23
12H	4H	18.73	19.29	19.51	20.08	20.99	21.31	21.87	22.08	22.65	23.56
	6H	19.05	19.51	19.84	20.31	21.24	21.78	22.24	22.57	23.04	23.96
	8H	19.13	19.54	19.93	20.33	21.31	21.96	22.36	22.75	23.16	24.14