

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: P933921

Luminaire Tested: SQ4-FA-025U-075D-927-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933921
REPORT IS A COMBINATION OF REPORTS P933677 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-927-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

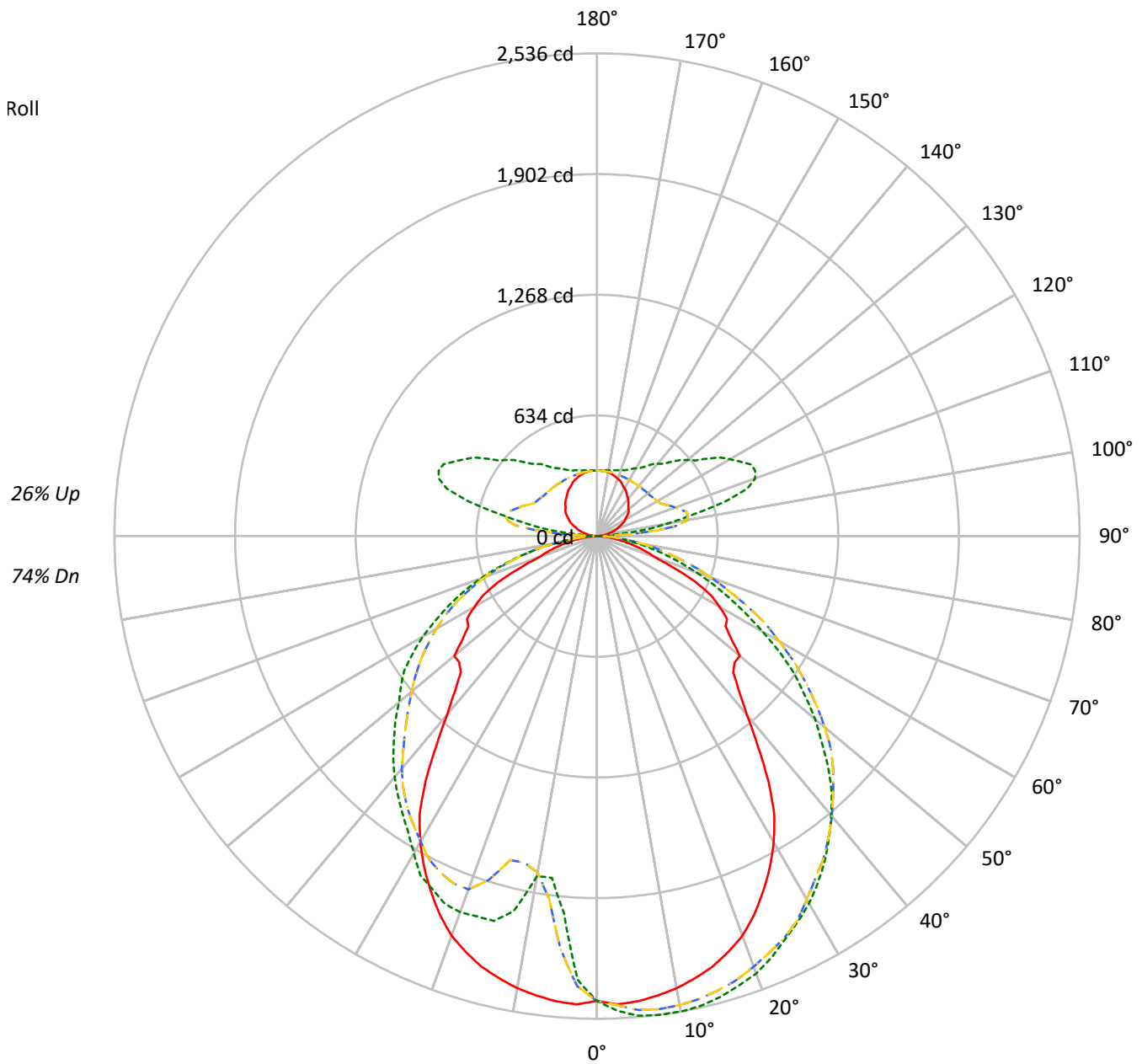
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8566.9 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 90
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										
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	50	30	10	0														
RCR																																						
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74																				
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62																				
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52																				
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44																				
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38																				
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33																				
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29																				
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26																				
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23																				
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21																				
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7552	7552	7552	7552
5°	7612	7624	7612	5994
10°	7564	7510	7564	5369
15°	7484	7347	7484	6135
20°	7331	7155	7331	6148
25°	7013	6873	7013	6017
30°	6601	6640	6601	5731
35°	5888	6345	5888	5417
40°	4909	5997	4909	5180
45°	4389	5590	4389	4906
50°	4667	5105	4667	4632
55°	4395	4582	4395	4474
60°	4536	3892	4536	4098
65°	4119	3217	4119	3596
70°	2859	2564	2859	3014
75°	2516	1895	2516	2270
80°	2043	1253	2043	1364
85°	1199	664	1199	564

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 6723 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	2.6
10°-20°	625.8	7.3
20°-30°	967.4	11.3
30°-40°	1154.8	13.5
40°-50°	1161.6	13.6
50°-60°	1010.7	11.8
60°-70°	716.6	8.4
70°-80°	379.1	4.4
80°-90°	95.7	1.1
90°-100°	168.0	2.0
100°-110°	441.8	5.2
110°-120°	458.1	5.3
120°-130°	367.4	4.3
130°-140°	288.3	3.4
140°-150°	221.3	2.6
150°-160°	159.4	1.9
160°-170°	97.5	1.1
170°-180°	32.9	0.4
0°-30°	1813.6	21.2
0°-40°	2968.4	34.6
0°-60°	5140.7	60.0
0°-90°	6332.2	73.9
90°-120°	1067.9	12.5
90°-150°	1944.9	22.7
90°-180°	2235.0	26.1
0°-180°	8566.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2442	2442	2442	2442	2442	
5°	2453	2530	2453	1989	2453	233
15°	2342	2506	2342	2093	2342	659
25°	2063	2338	2063	2047	2063	947
35°	1568	2086	1568	1781	1568	970
45°	1012	1719	1012	1508	1012	810
55°	825	1268	825	1238	825	758
65°	573	765	573	855	573	548
75°	217	363	217	434	217	228
85°	37	92	37	78	37	50
90°	2	9	2	9	2	3
95°	22	102	22	102	22	25
105°	80	692	80	692	80	84
115°	141	891	141	891	141	140
125°	197	709	197	709	197	175
135°	234	550	234	550	234	181
145°	272	446	272	446	272	170
155°	307	384	307	384	307	141
165°	332	358	332	358	332	94
175°	345	347	345	347	345	33
180°	345	345	345	345	345	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7
2.5°	2462.5	2462.5	2476.4	2481.0	2481.0	2474.1	2467.2	2474.1	2494.9	2501.8	2499.5
5°	2453.3	2471.8	2497.2	2501.8	2506.4	2504.1	2499.5	2504.1	2527.2	2531.8	2534.1
7.5°	2434.8	2469.5	2501.8	2508.7	2515.7	2508.7	2506.4	2511.0	2534.1	2538.8	2538.8
10°	2411.7	2460.2	2497.2	2501.8	2508.7	2501.8	2501.8	2511.0	2534.1	2538.8	2541.1
12.5°	2379.4	2446.4	2481.0	2485.6	2494.9	2492.6	2490.3	2499.5	2522.6	2527.2	2527.2
15°	2342.4	2421.0	2453.3	2457.9	2474.1	2469.5	2469.5	2478.7	2504.1	2511.0	2508.7
17.5°	2291.6	2388.6	2425.6	2432.5	2444.1	2441.7	2444.1	2453.3	2476.4	2481.0	2483.3
20°	2233.8	2344.7	2388.6	2395.5	2407.1	2407.1	2407.1	2418.6	2441.7	2451.0	2451.0
22.5°	2155.3	2298.5	2344.7	2349.3	2363.2	2363.2	2367.8	2384.0	2404.8	2407.1	2407.1
25°	2062.9	2247.7	2287.0	2300.8	2314.7	2321.6	2328.6	2337.8	2344.7	2342.4	2344.7
27.5°	1965.8	2183.0	2233.8	2243.1	2261.6	2268.5	2277.7	2280.0	2282.4	2289.3	2284.7
30°	1857.2	2092.9	2169.2	2178.4	2208.4	2213.1	2203.8	2208.4	2220.0	2224.6	2229.2
32.5°	1734.8	1958.9	2102.2	2123.0	2150.7	2136.8	2134.5	2141.4	2159.9	2159.9	2164.5
35°	1568.5	1854.9	2039.8	2058.3	2079.1	2062.9	2072.1	2074.5	2086.0	2092.9	2090.6
37.5°	1386.0	1764.8	1975.0	1988.9	2005.1	1984.3	1998.2	2005.1	2014.3	2009.7	2009.7
40°	1224.3	1623.9	1898.8	1908.1	1921.9	1905.8	1919.6	1924.2	1928.8	1924.2	1921.9
42.5°	1104.2	1469.2	1818.0	1829.5	1820.3	1831.8	1836.4	1845.7	1838.8	1829.5	1829.5
45°	1011.8	1427.6	1730.2	1744.0	1730.2	1748.7	1755.6	1755.6	1734.8	1730.2	1727.9
47.5°	981.8	1344.4	1642.4	1642.4	1635.5	1658.6	1670.1	1654.0	1633.2	1626.2	1626.2
50°	979.4	1252.0	1522.3	1513.0	1545.4	1573.1	1561.6	1545.4	1529.2	1503.8	1503.8
52.5°	889.4	1138.8	1367.5	1402.2	1453.0	1469.2	1450.7	1434.5	1406.8	1395.2	1386.0
55°	824.7	1021.0	1226.6	1295.9	1349.0	1369.8	1335.2	1319.0	1277.4	1270.5	1265.9
57.5°	810.8	850.1	1097.2	1185.0	1249.7	1247.4	1226.6	1196.6	1161.9	1155.0	1152.7
60°	743.8	614.5	958.6	1062.6	1129.6	1122.7	1104.2	1076.5	1044.1	1039.5	1034.9
62.5°	674.5	445.8	801.6	919.4	1014.1	1011.8	995.6	954.0	930.9	919.4	910.1
65°	572.9	374.2	570.6	764.6	900.9	905.5	870.9	840.8	815.4	801.6	799.3
67.5°	436.6	304.9	385.8	637.6	792.3	787.7	743.8	730.0	697.6	690.7	676.8
70°	323.4	203.3	268.0	517.4	686.1	674.5	639.9	623.7	593.7	577.5	568.3
72.5°	268.0	164.0	196.4	401.9	577.5	563.6	533.6	515.1	489.7	475.9	466.6
75°	217.1	173.2	150.2	298.0	468.9	459.7	432.0	413.5	392.7	374.2	376.5
77.5°	159.4	161.7	120.1	219.4	371.9	358.0	341.9	318.8	309.5	291.1	291.1
80°	120.1	127.0	90.1	150.2	268.0	268.0	254.1	237.9	221.8	212.5	212.5
82.5°	80.9	80.9	67.0	94.7	182.5	175.6	166.3	161.7	152.5	147.8	147.8
85°	37.0	46.2	41.6	57.8	99.3	104.0	104.0	99.3	97.0	92.4	94.7
87.5°	11.6	20.8	25.4	32.3	50.8	53.1	55.4	55.4	55.4	57.8	57.8
90°	2.3	4.2	6.0	6.5	10.2	15.1	17.6	15.6	11.7	8.8	8.8
92.5°	9.2	24.9	40.7	44.7	62.8	86.9	99.0	86.8	62.3	44.0	42.2
95°	22.2	51.0	79.8	87.0	154.5	244.5	289.4	258.3	196.0	149.2	143.9
97.5°	38.4	63.8	89.2	95.6	208.1	358.1	433.1	413.4	374.1	344.5	334.4
100°	50.9	73.9	96.9	102.7	227.6	394.1	477.3	478.8	481.6	483.8	471.8
102.5°	61.5	83.0	104.5	109.9	236.5	405.4	489.8	514.9	565.0	602.7	592.4
105°	79.6	97.8	116.0	120.5	243.2	406.6	488.4	544.6	657.1	741.5	736.0
107.5°	98.1	115.0	132.1	136.3	244.4	388.5	460.6	539.1	696.0	813.7	815.0
110°	110.6	125.9	141.2	145.1	242.6	372.5	437.5	525.2	700.6	832.2	838.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	122.9	137.4	152.1	155.7	242.6	358.5	416.5	506.3	685.8	820.4	829.3
115°	141.4	154.8	168.3	171.7	244.9	342.4	391.2	477.7	650.6	780.4	792.6
117.5°	159.6	171.9	184.1	187.2	249.4	332.4	373.9	452.0	608.1	725.1	738.7
120°	170.2	181.8	193.3	196.2	253.1	328.9	366.9	438.2	580.9	687.8	701.1
122.5°	180.7	192.3	203.9	206.8	258.4	327.2	361.6	425.8	554.2	650.6	663.6
125°	196.7	207.3	217.9	220.5	265.7	325.8	355.8	410.3	519.4	601.3	613.3
127.5°	209.6	220.3	231.0	233.7	272.8	324.9	351.0	397.8	491.5	561.7	571.9
130°	216.5	228.1	239.6	242.5	278.0	325.4	349.1	390.9	474.2	536.8	546.2
132.5°	223.8	235.2	246.8	249.6	282.3	325.8	347.5	384.8	459.5	515.5	523.9
135°	234.4	244.9	255.3	258.0	286.9	325.5	344.7	376.0	438.5	485.4	492.6
137.5°	245.2	255.6	266.0	268.6	293.8	327.5	344.3	370.7	423.5	463.2	469.1
140°	254.3	263.8	273.4	275.8	298.1	327.8	342.7	365.4	411.1	445.4	450.9
142.5°	261.2	270.0	278.9	281.1	301.6	328.9	342.7	362.7	402.8	432.9	437.7
145°	271.9	279.6	287.3	289.2	306.2	328.9	340.3	356.7	389.5	414.1	417.7
147.5°	282.5	290.0	297.5	299.4	313.0	331.3	340.3	353.3	379.1	398.4	401.4
150°	289.4	296.2	303.0	304.7	316.5	332.4	340.3	351.3	373.1	389.4	391.8
152.5°	296.6	301.8	306.8	308.2	318.9	333.2	340.3	349.7	368.3	382.2	384.1
155°	307.2	311.0	314.9	315.8	323.9	334.9	340.3	347.7	362.6	373.7	374.9
157.5°	315.1	318.8	322.6	323.5	329.1	336.6	340.3	346.1	357.6	366.2	367.1
160°	320.5	323.3	326.2	326.9	331.4	337.3	340.3	345.3	355.1	362.5	363.0
162.5°	325.8	327.9	330.1	330.6	333.9	338.2	340.3	344.5	352.8	359.1	359.5
165°	331.6	333.5	335.5	336.0	337.4	339.3	340.3	343.3	349.3	353.7	354.2
167.5°	336.9	337.8	338.7	339.0	340.2	341.8	342.7	344.6	348.5	351.4	351.7
170°	340.3	341.3	342.2	342.4	342.5	342.6	342.7	344.6	348.5	351.4	351.4
172.5°	342.2	342.4	342.6	342.7	342.7	342.7	342.7	344.2	347.3	349.6	349.4
175°	344.7	344.7	344.7	344.7	344.0	343.1	342.7	343.7	345.6	347.0	347.0
177.5°	344.7	344.7	344.7	344.7	344.2	343.5	343.1	343.9	345.4	346.6	346.3
180°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7
2.5°	2504.1	2497.2	2504.1	2499.5	2501.8	2494.9	2474.1	2467.2	2474.1	2481.0	2481.0
5°	2534.1	2529.5	2534.1	2534.1	2531.8	2527.2	2504.1	2499.5	2504.1	2506.4	2501.8
7.5°	2543.4	2536.5	2543.4	2538.8	2538.8	2534.1	2511.0	2506.4	2508.7	2515.7	2508.7
10°	2543.4	2536.5	2543.4	2541.1	2538.8	2534.1	2511.0	2501.8	2501.8	2508.7	2501.8
12.5°	2531.8	2527.2	2531.8	2527.2	2527.2	2522.6	2499.5	2490.3	2492.6	2494.9	2485.6
15°	2513.4	2506.4	2513.4	2508.7	2511.0	2504.1	2478.7	2469.5	2469.5	2474.1	2457.9
17.5°	2485.6	2476.4	2485.6	2483.3	2481.0	2476.4	2453.3	2444.1	2441.7	2444.1	2432.5
20°	2453.3	2446.4	2453.3	2451.0	2451.0	2441.7	2418.6	2407.1	2407.1	2407.1	2395.5
22.5°	2402.5	2395.5	2402.5	2407.1	2407.1	2404.8	2384.0	2367.8	2363.2	2363.2	2349.3
25°	2344.7	2337.8	2344.7	2344.7	2342.4	2344.7	2337.8	2328.6	2321.6	2314.7	2300.8
27.5°	2289.3	2284.7	2289.3	2284.7	2289.3	2282.4	2280.0	2277.7	2268.5	2261.6	2243.1
30°	2233.8	2229.2	2233.8	2229.2	2224.6	2220.0	2208.4	2203.8	2213.1	2208.4	2178.4
32.5°	2164.5	2159.9	2164.5	2164.5	2159.9	2159.9	2141.4	2134.5	2136.8	2150.7	2123.0
35°	2092.9	2086.0	2092.9	2090.6	2092.9	2086.0	2074.5	2072.1	2062.9	2079.1	2058.3
37.5°	2009.7	2002.8	2009.7	2009.7	2009.7	2014.3	2005.1	1998.2	1984.3	2005.1	1988.9
40°	1924.2	1915.0	1924.2	1921.9	1924.2	1928.8	1924.2	1919.6	1905.8	1921.9	1908.1
42.5°	1827.2	1824.9	1827.2	1829.5	1829.5	1838.8	1845.7	1836.4	1831.8	1820.3	1829.5
45°	1723.3	1718.6	1723.3	1727.9	1730.2	1734.8	1755.6	1755.6	1748.7	1730.2	1744.0
47.5°	1612.4	1600.8	1612.4	1626.2	1626.2	1633.2	1654.0	1670.1	1658.6	1635.5	1642.4
50°	1494.6	1496.9	1494.6	1503.8	1503.8	1529.2	1545.4	1561.6	1573.1	1545.4	1513.0
52.5°	1379.1	1376.8	1379.1	1386.0	1395.2	1406.8	1434.5	1450.7	1469.2	1453.0	1402.2
55°	1263.6	1268.2	1263.6	1265.9	1270.5	1277.4	1319.0	1335.2	1369.8	1349.0	1295.9
57.5°	1148.1	1141.1	1148.1	1152.7	1155.0	1161.9	1196.6	1226.6	1247.4	1249.7	1185.0
60°	1014.1	1004.8	1014.1	1034.9	1039.5	1044.1	1076.5	1104.2	1122.7	1129.6	1062.6
62.5°	896.3	880.1	896.3	910.1	919.4	930.9	954.0	995.6	1011.8	1014.1	919.4
65°	771.5	764.6	771.5	799.3	801.6	815.4	840.8	870.9	905.5	900.9	764.6
67.5°	658.4	658.4	658.4	676.8	690.7	697.6	730.0	743.8	787.7	792.3	637.6
70°	554.4	552.1	554.4	568.3	577.5	593.7	623.7	639.9	674.5	686.1	517.4
72.5°	455.1	452.8	455.1	466.6	475.9	489.7	515.1	533.6	563.6	577.5	401.9
75°	367.3	362.7	367.3	376.5	374.2	392.7	413.5	432.0	459.7	468.9	298.0
77.5°	281.8	281.8	281.8	291.1	291.1	309.5	318.8	341.9	358.0	371.9	219.4
80°	210.2	207.9	210.2	212.5	212.5	221.8	237.9	254.1	268.0	268.0	150.2
82.5°	147.8	143.2	147.8	147.8	147.8	152.5	161.7	166.3	175.6	182.5	94.7
85°	92.4	92.4	92.4	94.7	92.4	97.0	99.3	104.0	104.0	99.3	57.8
87.5°	60.1	57.8	60.1	57.8	57.8	55.4	55.4	55.4	53.1	50.8	32.3
90°	8.8	8.8	8.8	8.8	8.8	11.7	15.6	17.6	15.1	10.2	6.5
92.5°	35.3	28.3	35.3	42.2	44.0	62.3	86.8	99.0	86.9	62.8	44.7
95°	122.7	101.6	122.7	143.9	149.2	196.0	258.3	289.4	244.5	154.5	87.0
97.5°	294.1	253.8	294.1	334.4	344.5	374.1	413.4	433.1	358.1	208.1	95.6
100°	423.8	375.8	423.8	471.8	483.8	481.6	478.8	477.3	394.1	227.6	102.7
102.5°	551.2	510.1	551.2	592.4	602.7	565.0	514.9	489.8	405.4	236.5	109.9
105°	713.9	691.8	713.9	736.0	741.5	657.1	544.6	488.4	406.6	243.2	120.5
107.5°	820.4	825.7	820.4	815.0	813.7	696.0	539.1	460.6	388.5	244.4	136.3
110°	861.0	884.0	861.0	838.0	832.2	700.6	525.2	437.5	372.5	242.6	145.1



TEST NUMBER: P933921

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	864.6	900.0	864.6	829.3	820.4	685.8	506.3	416.5	358.5	242.6	155.7
115°	841.7	890.7	841.7	792.6	780.4	650.6	477.7	391.2	342.4	244.9	171.7
117.5°	793.1	847.5	793.1	738.7	725.1	608.1	452.0	373.9	332.4	249.4	187.2
120°	753.9	806.7	753.9	701.1	687.8	580.9	438.2	366.9	328.9	253.1	196.2
122.5°	715.8	767.9	715.8	663.6	650.6	554.2	425.8	361.6	327.2	258.4	206.8
125°	661.3	709.3	661.3	613.3	601.3	519.4	410.3	355.8	325.8	265.7	220.5
127.5°	612.4	652.9	612.4	571.9	561.7	491.5	397.8	351.0	324.9	272.8	233.7
130°	583.6	621.0	583.6	546.2	536.8	474.2	390.9	349.1	325.4	278.0	242.5
132.5°	557.4	590.9	557.4	523.9	515.5	459.5	384.8	347.5	325.8	282.3	249.6
135°	521.5	550.4	521.5	492.6	485.4	438.5	376.0	344.7	325.5	286.9	258.0
137.5°	492.7	516.4	492.7	469.1	463.2	423.5	370.7	344.3	327.5	293.8	268.6
140°	473.0	495.1	473.0	450.9	445.4	411.1	365.4	342.7	327.8	298.1	275.8
142.5°	456.7	475.7	456.7	437.7	432.9	402.8	362.7	342.7	328.9	301.6	281.1
145°	432.1	446.5	432.1	417.7	414.1	389.5	356.7	340.3	328.9	306.2	289.2
147.5°	413.3	425.3	413.3	401.4	398.4	379.1	353.3	340.3	331.3	313.0	299.4
150°	401.5	411.1	401.5	391.8	389.4	373.1	351.3	340.3	332.4	316.5	304.7
152.5°	391.3	398.6	391.3	384.1	382.2	368.3	349.7	340.3	333.2	318.9	308.2
155°	379.7	384.5	379.7	374.9	373.7	362.6	347.7	340.3	334.9	323.9	315.8
157.5°	370.5	373.9	370.5	367.1	366.2	357.6	346.1	340.3	336.6	329.1	323.5
160°	365.0	366.9	365.0	363.0	362.5	355.1	345.3	340.3	337.3	331.4	326.9
162.5°	361.4	363.2	361.4	359.5	359.1	352.8	344.5	340.3	338.2	333.9	330.6
165°	356.2	358.1	356.2	354.2	353.7	349.3	343.3	340.3	339.3	337.4	336.0
167.5°	352.4	353.3	352.4	351.7	351.4	348.5	344.6	342.7	341.8	340.2	339.0
170°	351.4	351.4	351.4	351.4	351.4	348.5	344.6	342.7	342.6	342.5	342.4
172.5°	348.7	348.0	348.7	349.4	349.6	347.3	344.2	342.7	342.7	342.7	342.7
175°	347.0	347.0	347.0	347.0	347.0	345.6	343.7	342.7	343.1	344.0	344.7
177.5°	345.6	344.7	345.6	346.3	346.6	345.4	343.9	343.1	343.5	344.2	344.7
180°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7



TEST NUMBER: P933921

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7
2.5°	2476.4	2462.5	2462.5	2439.4	2430.2	2423.3	2411.7	2377.1	2367.8	2358.6	2372.4
5°	2497.2	2471.8	2453.3	2411.7	2377.1	2363.2	2319.3	2236.2	2180.7	2139.1	2116.0
7.5°	2501.8	2469.5	2434.8	2370.1	2287.0	2250.0	2116.0	1963.5	1921.9	1885.0	1861.9
10°	2497.2	2460.2	2411.7	2314.7	2118.3	2053.7	1919.6	1820.3	1794.9	1787.9	1794.9
12.5°	2481.0	2446.4	2379.4	2217.7	1942.7	1898.8	1820.3	1762.5	1757.9	1769.5	1831.8
15°	2453.3	2421.0	2342.4	2088.3	1845.7	1813.4	1757.9	1737.1	1762.5	1843.4	2030.5
17.5°	2425.6	2388.6	2291.6	1961.2	1771.8	1748.7	1709.4	1751.0	1894.2	2002.8	2065.2
20°	2388.6	2344.7	2233.8	1868.8	1718.6	1697.8	1679.4	1866.5	1975.0	2014.3	2049.0
22.5°	2344.7	2298.5	2155.3	1804.1	1663.2	1647.0	1658.6	1931.2	1975.0	2002.8	2032.8
25°	2287.0	2247.7	2062.9	1753.3	1619.3	1600.8	1644.7	1924.2	1949.6	1956.6	2016.6
27.5°	2233.8	2183.0	1965.8	1707.1	1566.2	1559.2	1656.3	1894.2	1912.7	1919.6	1984.3
30°	2169.2	2092.9	1857.2	1658.6	1510.7	1508.4	1658.6	1857.2	1852.6	1871.1	1935.8
32.5°	2102.2	1958.9	1734.8	1598.5	1457.6	1455.3	1642.4	1801.8	1797.2	1822.6	1871.1
35°	2039.8	1854.9	1568.5	1529.2	1390.6	1392.9	1603.1	1737.1	1739.4	1762.5	1792.6
37.5°	1975.0	1764.8	1386.0	1453.0	1325.9	1325.9	1550.0	1677.1	1672.4	1679.4	1721.0
40°	1898.8	1623.9	1224.3	1353.7	1265.9	1259.0	1485.3	1612.4	1596.2	1593.9	1651.6
42.5°	1818.0	1469.2	1104.2	1222.0	1196.6	1187.3	1406.8	1533.8	1503.8	1510.7	1584.7
45°	1730.2	1427.6	1011.8	1032.6	1125.0	1118.0	1321.3	1443.8	1423.0	1441.4	1517.7
47.5°	1642.4	1344.4	981.8	857.0	1048.7	1046.4	1226.6	1356.0	1344.4	1362.9	1443.8
50°	1522.3	1252.0	979.4	734.6	963.3	972.5	1113.4	1270.5	1270.5	1286.7	1372.1
52.5°	1367.5	1138.8	889.4	665.3	863.9	891.7	1014.1	1196.6	1201.2	1217.4	1293.6
55°	1226.6	1021.0	824.7	612.2	746.1	806.2	917.1	1120.4	1129.6	1145.8	1215.1
57.5°	1097.2	850.1	810.8	549.8	637.6	695.3	831.6	1046.4	1051.0	1064.9	1131.9
60°	958.6	614.5	743.8	482.8	542.8	586.7	753.1	958.6	974.8	984.1	1041.8
62.5°	801.6	445.8	674.5	436.6	496.6	505.9	688.4	875.5	896.3	903.2	937.9
65°	570.6	374.2	572.9	397.3	448.1	450.4	619.1	790.0	808.5	820.0	845.5
67.5°	385.8	304.9	436.6	360.4	411.2	413.5	552.1	690.7	716.1	725.3	741.5
70°	268.0	203.3	323.4	321.1	369.6	374.2	480.5	600.6	623.7	630.6	639.9
72.5°	196.4	164.0	268.0	288.8	325.7	330.3	406.6	499.0	522.1	529.0	533.6
75°	150.2	173.2	217.1	251.8	277.2	279.5	332.6	406.6	422.7	427.4	429.7
77.5°	120.1	161.7	159.4	203.3	226.4	221.8	261.0	314.2	328.0	328.0	328.0
80°	90.1	127.0	120.1	145.5	166.3	161.7	187.1	224.1	228.7	233.3	231.0
82.5°	67.0	80.9	80.9	92.4	110.9	106.3	124.7	145.5	145.5	145.5	150.2
85°	41.6	46.2	37.0	48.5	62.4	60.1	69.3	78.5	80.9	80.9	76.2
87.5°	25.4	20.8	11.6	18.5	27.7	27.7	32.3	34.6	32.3	32.3	32.3
90°	6.0	4.2	2.3	4.2	6.0	6.5	10.2	15.1	17.6	15.6	11.7
92.5°	40.7	24.9	9.2	24.9	40.7	44.7	62.8	86.9	99.0	86.8	62.3
95°	79.8	51.0	22.2	51.0	79.8	87.0	154.5	244.5	289.4	258.3	196.0
97.5°	89.2	63.8	38.4	63.8	89.2	95.6	208.1	358.1	433.1	413.4	374.1
100°	96.9	73.9	50.9	73.9	96.9	102.7	227.6	394.1	477.3	478.8	481.6
102.5°	104.5	83.0	61.5	83.0	104.5	109.9	236.5	405.4	489.8	514.9	565.0
105°	116.0	97.8	79.6	97.8	116.0	120.5	243.2	406.6	488.4	544.6	657.1
107.5°	132.1	115.0	98.1	115.0	132.1	136.3	244.4	388.5	460.6	539.1	696.0
110°	141.2	125.9	110.6	125.9	141.2	145.1	242.6	372.5	437.5	525.2	700.6



TEST NUMBER: P933921

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	152.1	137.4	122.9	137.4	152.1	155.7	242.6	358.5	416.5	506.3	685.8
115°	168.3	154.8	141.4	154.8	168.3	171.7	244.9	342.4	391.2	477.7	650.6
117.5°	184.1	171.9	159.6	171.9	184.1	187.2	249.4	332.4	373.9	452.0	608.1
120°	193.3	181.8	170.2	181.8	193.3	196.2	253.1	328.9	366.9	438.2	580.9
122.5°	203.9	192.3	180.7	192.3	203.9	206.8	258.4	327.2	361.6	425.8	554.2
125°	217.9	207.3	196.7	207.3	217.9	220.5	265.7	325.8	355.8	410.3	519.4
127.5°	231.0	220.3	209.6	220.3	231.0	233.7	272.8	324.9	351.0	397.8	491.5
130°	239.6	228.1	216.5	228.1	239.6	242.5	278.0	325.4	349.1	390.9	474.2
132.5°	246.8	235.2	223.8	235.2	246.8	249.6	282.3	325.8	347.5	384.8	459.5
135°	255.3	244.9	234.4	244.9	255.3	258.0	286.9	325.5	344.7	376.0	438.5
137.5°	266.0	255.6	245.2	255.6	266.0	268.6	293.8	327.5	344.3	370.7	423.5
140°	273.4	263.8	254.3	263.8	273.4	275.8	298.1	327.8	342.7	365.4	411.1
142.5°	278.9	270.0	261.2	270.0	278.9	281.1	301.6	328.9	342.7	362.7	402.8
145°	287.3	279.6	271.9	279.6	287.3	289.2	306.2	328.9	340.3	356.7	389.5
147.5°	297.5	290.0	282.5	290.0	297.5	299.4	313.0	331.3	340.3	353.3	379.1
150°	303.0	296.2	289.4	296.2	303.0	304.7	316.5	332.4	340.3	351.3	373.1
152.5°	306.8	301.8	296.6	301.8	306.8	308.2	318.9	333.2	340.3	349.7	368.3
155°	314.9	311.0	307.2	311.0	314.9	315.8	323.9	334.9	340.3	347.7	362.6
157.5°	322.6	318.8	315.1	318.8	322.6	323.5	329.1	336.6	340.3	346.1	357.6
160°	326.2	323.3	320.5	323.3	326.2	326.9	331.4	337.3	340.3	345.3	355.1
162.5°	330.1	327.9	325.8	327.9	330.1	330.6	333.9	338.2	340.3	344.5	352.8
165°	335.5	333.5	331.6	333.5	335.5	336.0	337.4	339.3	340.3	343.3	349.3
167.5°	338.7	337.8	336.9	337.8	338.7	339.0	340.2	341.8	342.7	344.6	348.5
170°	342.2	341.3	340.3	341.3	342.2	342.4	342.5	342.6	342.7	344.6	348.5
172.5°	342.6	342.4	342.2	342.4	342.6	342.7	342.7	342.7	342.7	344.2	347.3
175°	344.7	344.7	344.7	344.7	344.7	344.7	344.0	343.1	342.7	343.7	345.6
177.5°	344.7	344.7	344.7	344.7	344.7	344.7	344.2	343.5	343.1	343.9	345.4
180°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7



TEST NUMBER: P933921

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7	2441.7
2.5°	2356.3	2349.3	2358.6	2333.2	2358.6	2349.3	2356.3	2372.4	2358.6	2367.8	2377.1
5°	2067.5	2056.0	2018.9	1988.9	2018.9	2056.0	2067.5	2116.0	2139.1	2180.7	2236.2
7.5°	1848.0	1838.8	1829.5	1811.0	1829.5	1838.8	1848.0	1861.9	1885.0	1921.9	1963.5
10°	1799.5	1801.8	1815.7	1813.4	1815.7	1801.8	1799.5	1794.9	1787.9	1794.9	1820.3
12.5°	1924.2	1945.0	2021.2	2016.6	2021.2	1945.0	1924.2	1831.8	1769.5	1757.9	1762.5
15°	2067.5	2074.5	2090.6	2092.9	2090.6	2074.5	2067.5	2030.5	1843.4	1762.5	1737.1
17.5°	2081.4	2083.7	2095.2	2095.2	2095.2	2083.7	2081.4	2065.2	2002.8	1894.2	1751.0
20°	2069.8	2074.5	2097.6	2102.2	2097.6	2074.5	2069.8	2049.0	2014.3	1975.0	1866.5
22.5°	2065.2	2074.5	2092.9	2090.6	2092.9	2074.5	2065.2	2032.8	2002.8	1975.0	1931.2
25°	2042.1	2042.1	2044.4	2046.7	2044.4	2042.1	2042.1	2016.6	1956.6	1949.6	1924.2
27.5°	1993.5	1998.2	2012.0	2009.7	2012.0	1998.2	1993.5	1984.3	1919.6	1912.7	1894.2
30°	1949.6	1945.0	1933.5	1924.2	1933.5	1945.0	1949.6	1935.8	1871.1	1852.6	1857.2
32.5°	1875.7	1864.2	1852.6	1845.7	1852.6	1864.2	1875.7	1871.1	1822.6	1797.2	1801.8
35°	1787.9	1790.2	1787.9	1781.0	1787.9	1790.2	1787.9	1792.6	1762.5	1739.4	1737.1
37.5°	1725.6	1730.2	1727.9	1718.6	1727.9	1730.2	1725.6	1721.0	1679.4	1672.4	1677.1
40°	1660.9	1663.2	1660.9	1654.0	1660.9	1663.2	1660.9	1651.6	1593.9	1596.2	1612.4
42.5°	1598.5	1596.2	1589.3	1584.7	1589.3	1596.2	1598.5	1584.7	1510.7	1503.8	1533.8
45°	1526.9	1529.2	1515.4	1508.4	1515.4	1529.2	1526.9	1517.7	1441.4	1423.0	1443.8
47.5°	1455.3	1455.3	1443.8	1436.8	1443.8	1455.3	1455.3	1443.8	1362.9	1344.4	1356.0
50°	1379.1	1376.8	1360.6	1358.3	1360.6	1376.8	1379.1	1372.1	1286.7	1270.5	1270.5
52.5°	1291.3	1291.3	1293.6	1298.2	1293.6	1291.3	1291.3	1293.6	1217.4	1201.2	1196.6
55°	1215.1	1217.4	1233.5	1238.2	1233.5	1217.4	1215.1	1215.1	1145.8	1129.6	1120.4
57.5°	1136.5	1136.5	1148.1	1148.1	1148.1	1136.5	1136.5	1131.9	1064.9	1051.0	1046.4
60°	1046.4	1051.0	1060.3	1058.0	1060.3	1051.0	1046.4	1041.8	984.1	974.8	958.6
62.5°	951.7	956.3	958.6	954.0	958.6	956.3	951.7	937.9	903.2	896.3	875.5
65°	852.4	857.0	859.3	854.7	859.3	857.0	852.4	845.5	820.0	808.5	790.0
67.5°	750.8	748.4	746.1	755.4	746.1	748.4	750.8	741.5	725.3	716.1	690.7
70°	646.8	646.8	644.5	649.1	644.5	646.8	646.8	639.9	630.6	623.7	600.6
72.5°	535.9	533.6	542.8	535.9	542.8	533.6	535.9	533.6	529.0	522.1	499.0
75°	427.4	432.0	427.4	434.3	427.4	432.0	427.4	429.7	427.4	422.7	406.6
77.5°	325.7	330.3	325.7	325.7	325.7	330.3	325.7	328.0	328.0	328.0	314.2
80°	231.0	228.7	228.7	226.4	228.7	228.7	231.0	231.0	233.3	228.7	224.1
82.5°	147.8	145.5	145.5	150.2	145.5	145.5	147.8	150.2	145.5	145.5	145.5
85°	80.9	83.2	78.5	78.5	78.5	83.2	80.9	76.2	80.9	80.9	78.5
87.5°	30.0	27.7	27.7	27.7	27.7	27.7	30.0	32.3	32.3	32.3	34.6
90°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	11.7	15.6	17.6	15.1
92.5°	44.0	42.2	35.3	28.3	35.3	42.2	44.0	62.3	86.8	99.0	86.9
95°	149.2	143.9	122.7	101.6	122.7	143.9	149.2	196.0	258.3	289.4	244.5
97.5°	344.5	334.4	294.1	253.8	294.1	334.4	344.5	374.1	413.4	433.1	358.1
100°	483.8	471.8	423.8	375.8	423.8	471.8	483.8	481.6	478.8	477.3	394.1
102.5°	602.7	592.4	551.2	510.1	551.2	592.4	602.7	565.0	514.9	489.8	405.4
105°	741.5	736.0	713.9	691.8	713.9	736.0	741.5	657.1	544.6	488.4	406.6
107.5°	813.7	815.0	820.4	825.7	820.4	815.0	813.7	696.0	539.1	460.6	388.5
110°	832.2	838.0	861.0	884.0	861.0	838.0	832.2	700.6	525.2	437.5	372.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	820.4	829.3	864.6	900.0	864.6	829.3	820.4	685.8	506.3	416.5	358.5
115°	780.4	792.6	841.7	890.7	841.7	792.6	780.4	650.6	477.7	391.2	342.4
117.5°	725.1	738.7	793.1	847.5	793.1	738.7	725.1	608.1	452.0	373.9	332.4
120°	687.8	701.1	753.9	806.7	753.9	701.1	687.8	580.9	438.2	366.9	328.9
122.5°	650.6	663.6	715.8	767.9	715.8	663.6	650.6	554.2	425.8	361.6	327.2
125°	601.3	613.3	661.3	709.3	661.3	613.3	601.3	519.4	410.3	355.8	325.8
127.5°	561.7	571.9	612.4	652.9	612.4	571.9	561.7	491.5	397.8	351.0	324.9
130°	536.8	546.2	583.6	621.0	583.6	546.2	536.8	474.2	390.9	349.1	325.4
132.5°	515.5	523.9	557.4	590.9	557.4	523.9	515.5	459.5	384.8	347.5	325.8
135°	485.4	492.6	521.5	550.4	521.5	492.6	485.4	438.5	376.0	344.7	325.5
137.5°	463.2	469.1	492.7	516.4	492.7	469.1	463.2	423.5	370.7	344.3	327.5
140°	445.4	450.9	473.0	495.1	473.0	450.9	445.4	411.1	365.4	342.7	327.8
142.5°	432.9	437.7	456.7	475.7	456.7	437.7	432.9	402.8	362.7	342.7	328.9
145°	414.1	417.7	432.1	446.5	432.1	417.7	414.1	389.5	356.7	340.3	328.9
147.5°	398.4	401.4	413.3	425.3	413.3	401.4	398.4	379.1	353.3	340.3	331.3
150°	389.4	391.8	401.5	411.1	401.5	391.8	389.4	373.1	351.3	340.3	332.4
152.5°	382.2	384.1	391.3	398.6	391.3	384.1	382.2	368.3	349.7	340.3	333.2
155°	373.7	374.9	379.7	384.5	379.7	374.9	373.7	362.6	347.7	340.3	334.9
157.5°	366.2	367.1	370.5	373.9	370.5	367.1	366.2	357.6	346.1	340.3	336.6
160°	362.5	363.0	365.0	366.9	365.0	363.0	362.5	355.1	345.3	340.3	337.3
162.5°	359.1	359.5	361.4	363.2	361.4	359.5	359.1	352.8	344.5	340.3	338.2
165°	353.7	354.2	356.2	358.1	356.2	354.2	353.7	349.3	343.3	340.3	339.3
167.5°	351.4	351.7	352.4	353.3	352.4	351.7	351.4	348.5	344.6	342.7	341.8
170°	351.4	351.4	351.4	351.4	351.4	351.4	351.4	348.5	344.6	342.7	342.6
172.5°	349.6	349.4	348.7	348.0	348.7	349.4	349.6	347.3	344.2	342.7	342.7
175°	347.0	347.0	347.0	347.0	347.0	347.0	347.0	345.6	343.7	342.7	343.1
177.5°	346.6	346.3	345.6	344.7	345.6	346.3	346.6	345.4	343.9	343.1	343.5
180°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2441.7	2441.7	2441.7	2441.7	2441.7
2.5°	2411.7	2423.3	2430.2	2439.4	2462.5
5°	2319.3	2363.2	2377.1	2411.7	2453.3
7.5°	2116.0	2250.0	2287.0	2370.1	2434.8
10°	1919.6	2053.7	2118.3	2314.7	2411.7
12.5°	1820.3	1898.8	1942.7	2217.7	2379.4
15°	1757.9	1813.4	1845.7	2088.3	2342.4
17.5°	1709.4	1748.7	1771.8	1961.2	2291.6
20°	1679.4	1697.8	1718.6	1868.8	2233.8
22.5°	1658.6	1647.0	1663.2	1804.1	2155.3
25°	1644.7	1600.8	1619.3	1753.3	2062.9
27.5°	1656.3	1559.2	1566.2	1707.1	1965.8
30°	1658.6	1508.4	1510.7	1658.6	1857.2
32.5°	1642.4	1455.3	1457.6	1598.5	1734.8
35°	1603.1	1392.9	1390.6	1529.2	1568.5
37.5°	1550.0	1325.9	1325.9	1453.0	1386.0
40°	1485.3	1259.0	1265.9	1353.7	1224.3
42.5°	1406.8	1187.3	1196.6	1222.0	1104.2
45°	1321.3	1118.0	1125.0	1032.6	1011.8
47.5°	1226.6	1046.4	1048.7	857.0	981.8
50°	1113.4	972.5	963.3	734.6	979.4
52.5°	1014.1	891.7	863.9	665.3	889.4
55°	917.1	806.2	746.1	612.2	824.7
57.5°	831.6	695.3	637.6	549.8	810.8
60°	753.1	586.7	542.8	482.8	743.8
62.5°	688.4	505.9	496.6	436.6	674.5
65°	619.1	450.4	448.1	397.3	572.9
67.5°	552.1	413.5	411.2	360.4	436.6
70°	480.5	374.2	369.6	321.1	323.4
72.5°	406.6	330.3	325.7	288.8	268.0
75°	332.6	279.5	277.2	251.8	217.1
77.5°	261.0	221.8	226.4	203.3	159.4
80°	187.1	161.7	166.3	145.5	120.1
82.5°	124.7	106.3	110.9	92.4	80.9
85°	69.3	60.1	62.4	48.5	37.0
87.5°	32.3	27.7	27.7	18.5	11.6
90°	10.2	6.5	6.0	4.2	2.3
92.5°	62.8	44.7	40.7	24.9	9.2
95°	154.5	87.0	79.8	51.0	22.2
97.5°	208.1	95.6	89.2	63.8	38.4
100°	227.6	102.7	96.9	73.9	50.9
102.5°	236.5	109.9	104.5	83.0	61.5
105°	243.2	120.5	116.0	97.8	79.6
107.5°	244.4	136.3	132.1	115.0	98.1
110°	242.6	145.1	141.2	125.9	110.6



TEST NUMBER: P933921

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	242.6	155.7	152.1	137.4	122.9
115°	244.9	171.7	168.3	154.8	141.4
117.5°	249.4	187.2	184.1	171.9	159.6
120°	253.1	196.2	193.3	181.8	170.2
122.5°	258.4	206.8	203.9	192.3	180.7
125°	265.7	220.5	217.9	207.3	196.7
127.5°	272.8	233.7	231.0	220.3	209.6
130°	278.0	242.5	239.6	228.1	216.5
132.5°	282.3	249.6	246.8	235.2	223.8
135°	286.9	258.0	255.3	244.9	234.4
137.5°	293.8	268.6	266.0	255.6	245.2
140°	298.1	275.8	273.4	263.8	254.3
142.5°	301.6	281.1	278.9	270.0	261.2
145°	306.2	289.2	287.3	279.6	271.9
147.5°	313.0	299.4	297.5	290.0	282.5
150°	316.5	304.7	303.0	296.2	289.4
152.5°	318.9	308.2	306.8	301.8	296.6
155°	323.9	315.8	314.9	311.0	307.2
157.5°	329.1	323.5	322.6	318.8	315.1
160°	331.4	326.9	326.2	323.3	320.5
162.5°	333.9	330.6	330.1	327.9	325.8
165°	337.4	336.0	335.5	333.5	331.6
167.5°	340.2	339.0	338.7	337.8	336.9
170°	342.5	342.4	342.2	341.3	340.3
172.5°	342.7	342.7	342.6	342.4	342.2
175°	344.0	344.7	344.7	344.7	344.7
177.5°	344.2	344.7	344.7	344.7	344.7
180°	344.7	344.7	344.7	344.7	344.7



TEST NUMBER: P933921
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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	13.80	14.93	14.52	15.67	16.55	16.65	17.78	17.37	18.52	19.40
	3H	14.30	15.31	15.03	16.06	16.98	18.03	19.04	18.76	19.79	20.70
	4H	14.50	15.46	15.25	16.22	17.14	18.49	19.44	19.24	20.20	21.13
	6H	14.63	15.51	15.40	16.28	17.23	18.79	19.67	19.56	20.44	21.38
	8H	14.64	15.48	15.42	16.27	17.21	18.87	19.71	19.65	20.50	21.45
	12H	14.62	15.42	15.40	16.21	17.18	18.93	19.73	19.71	20.51	21.48
4H	2H	14.87	15.83	15.63	16.59	17.51	17.09	18.05	17.85	18.81	19.74
	3H	15.92	16.72	16.69	17.52	18.46	18.63	19.43	19.40	20.22	21.17
	4H	16.21	16.93	16.99	17.73	18.70	19.17	19.90	19.96	20.69	21.67
	6H	16.35	16.98	17.15	17.80	18.78	19.56	20.19	20.36	21.01	21.99
	8H	16.36	16.95	17.17	17.76	18.76	19.68	20.26	20.48	21.08	22.07
	12H	16.34	16.87	17.17	17.71	18.70	19.75	20.27	20.57	21.11	22.11
8H	4H	16.69	17.27	17.49	18.09	19.08	19.32	19.90	20.12	20.72	21.71
	6H	16.96	17.44	17.80	18.30	19.30	19.77	20.26	20.61	21.11	22.11
	8H	17.01	17.44	17.85	18.29	19.30	19.93	20.36	20.78	21.22	22.23
	12H	17.00	17.38	17.85	18.23	19.29	20.04	20.42	20.89	21.27	22.34
12H	4H	16.71	17.23	17.53	18.07	19.07	19.30	19.82	20.12	20.66	21.66
	6H	17.02	17.46	17.87	18.31	19.32	19.77	20.20	20.62	21.06	22.07
	8H	17.10	17.48	17.95	18.33	19.40	19.95	20.33	20.80	21.17	22.24