

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: P934072

Luminaire Tested: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934072
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-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

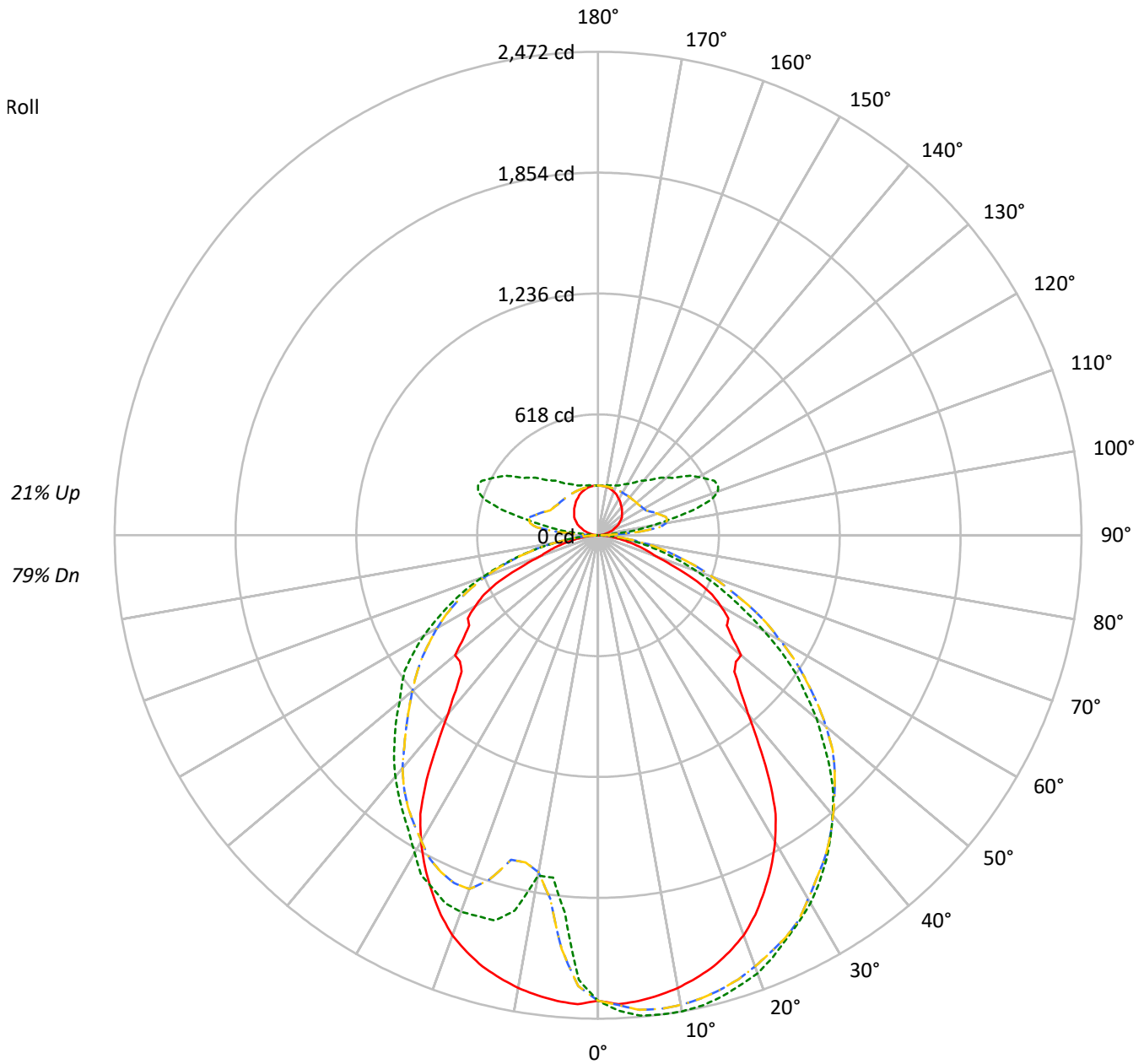
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7819.7 lumens
Efficiency: N/A
Efficacy: 100.8 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

TEST NUMBER: P934072
CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

Luminous Intensity Polar Plot



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



TEST NUMBER: P934072

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11041	11041	11041	11041
5°	11124	11146	11124	8764
10°	11049	10979	11049	7849
15°	10929	10741	10929	8969
20°	10700	10459	10700	8988
25°	10233	10048	10233	8797
30°	9628	9707	9628	8379
35°	8583	9275	8583	7919
40°	7152	8767	7152	7572
45°	6390	8172	6390	7173
50°	6789	7463	6789	6772
55°	6388	6699	6388	6541
60°	6585	5690	6585	5991
65°	5969	4703	5969	5257
70°	4134	3748	4134	4407
75°	3624	2771	3624	3318
80°	2922	1831	2922	1995
85°	1677	971	1677	824

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9794 cd/sqm



TEST NUMBER: P934072

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	2.7
10°-20°	609.9	7.8
20°-30°	942.8	12.1
30°-40°	1125.5	14.4
40°-50°	1132.1	14.5
50°-60°	985.1	12.6
60°-70°	698.4	8.9
70°-80°	369.5	4.7
80°-90°	93.0	1.2
90°-100°	124.0	1.6
100°-110°	325.9	4.2
110°-120°	337.9	4.3
120°-130°	271.1	3.5
130°-140°	212.7	2.7
140°-150°	163.2	2.1
150°-160°	117.6	1.5
160°-170°	71.9	0.9
170°-180°	24.3	0.3
0°-30°	1767.5	22.6
0°-40°	2893.0	37.0
0°-60°	5010.2	64.1
0°-90°	6171.2	78.9
90°-120°	787.8	10.1
90°-150°	1434.7	18.3
90°-180°	1649.0	21.1
0°-180°	7819.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2380	2380	2380	2380	2380	
5°	2391	2465	2391	1938	2391	227
15°	2283	2443	2283	2040	2283	642
25°	2010	2278	2010	1995	2010	923
35°	1529	2033	1529	1736	1529	946
45°	986	1675	986	1470	986	790
55°	804	1236	804	1207	804	739
65°	558	745	558	833	558	534
75°	212	354	212	423	212	222
85°	36	90	36	76	36	49
90°	2	6	2	6	2	3
95°	16	75	16	75	16	18
105°	59	510	59	510	59	62
115°	104	657	104	657	104	103
125°	145	523	145	523	145	129
135°	173	406	173	406	173	134
145°	201	329	201	329	201	126
155°	227	284	227	284	227	104
165°	245	264	245	264	245	69
175°	254	256	254	256	254	24
180°	254	254	254	254	254	



TEST NUMBER: P934072

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7
2.5°	2400.0	2400.0	2413.5	2418.0	2418.0	2411.2	2404.5	2411.2	2431.5	2438.3	2436.0
5°	2391.0	2408.9	2433.7	2438.3	2442.8	2440.5	2436.0	2440.5	2463.0	2467.6	2469.8
7.5°	2373.0	2406.7	2438.3	2445.0	2451.8	2445.0	2442.8	2447.3	2469.8	2474.3	2474.3
10°	2350.4	2397.7	2433.7	2438.3	2445.0	2438.3	2438.3	2447.3	2469.8	2474.3	2476.5
12.5°	2318.9	2384.2	2418.0	2422.5	2431.5	2429.2	2427.0	2436.0	2458.5	2463.0	2463.0
15°	2282.9	2359.4	2391.0	2395.5	2411.2	2406.7	2406.7	2415.8	2440.5	2447.3	2445.0
17.5°	2233.3	2327.9	2364.0	2370.7	2381.9	2379.7	2381.9	2391.0	2413.5	2418.0	2420.3
20°	2177.1	2285.1	2327.9	2334.7	2346.0	2346.0	2346.0	2357.2	2379.7	2388.8	2388.8
22.5°	2100.5	2240.2	2285.1	2289.7	2303.1	2303.1	2307.6	2323.4	2343.7	2346.0	2346.0
25°	2010.5	2190.6	2228.8	2242.4	2255.9	2262.7	2269.4	2278.4	2285.1	2282.9	2285.1
27.5°	1915.9	2127.5	2177.1	2186.1	2204.1	2210.9	2219.9	2222.1	2224.4	2231.1	2226.6
30°	1810.1	2039.8	2114.1	2123.1	2152.3	2156.8	2147.8	2152.3	2163.6	2168.1	2172.6
32.5°	1690.8	1909.2	2048.8	2069.0	2096.0	2082.5	2080.2	2087.1	2105.0	2105.0	2109.6
35°	1528.7	1807.9	1988.0	2005.9	2026.2	2010.5	2019.5	2021.7	2033.0	2039.8	2037.5
37.5°	1350.8	1720.0	1924.9	1938.5	1954.2	1934.0	1947.4	1954.2	1963.2	1958.7	1958.7
40°	1193.2	1582.8	1850.6	1859.7	1873.1	1857.4	1870.9	1875.4	1879.9	1875.4	1873.1
42.5°	1076.2	1431.9	1771.8	1783.1	1774.1	1785.4	1789.9	1798.8	1792.1	1783.1	1783.1
45°	986.1	1391.3	1686.3	1699.8	1686.3	1704.3	1711.1	1711.1	1690.8	1686.3	1684.1
47.5°	956.9	1310.3	1600.7	1600.7	1594.0	1616.5	1627.7	1612.0	1591.7	1585.0	1585.0
50°	954.6	1220.2	1483.7	1474.6	1506.2	1533.2	1521.9	1506.2	1490.4	1465.6	1465.6
52.5°	866.8	1109.9	1332.8	1366.6	1416.1	1431.9	1413.9	1398.1	1371.1	1359.9	1350.8
55°	803.8	995.1	1195.5	1263.0	1314.8	1335.1	1301.3	1285.6	1245.0	1238.3	1233.8
57.5°	790.2	828.5	1069.4	1155.0	1218.0	1215.7	1195.5	1166.2	1132.5	1125.7	1123.4
60°	725.0	598.9	934.3	1035.6	1101.0	1094.1	1076.2	1049.2	1017.6	1013.1	1008.6
62.5°	657.4	434.5	781.2	896.0	988.3	986.1	970.3	929.8	907.3	896.0	887.0
65°	558.3	364.7	556.1	745.2	878.1	882.5	848.8	819.5	794.7	781.2	779.0
67.5°	425.5	297.2	376.0	621.4	772.3	767.7	725.0	711.4	679.9	673.2	659.6
70°	315.2	198.1	261.1	504.3	668.6	657.4	623.7	607.9	578.6	562.8	553.8
72.5°	261.1	159.8	191.4	391.7	562.8	549.4	520.1	502.1	477.3	463.7	454.8
75°	211.6	168.9	146.4	290.4	457.0	448.1	421.0	403.0	382.7	364.7	367.0
77.5°	155.3	157.6	117.1	213.9	362.4	349.0	333.2	310.7	301.7	283.7	283.7
80°	117.1	123.8	87.8	146.4	261.1	261.1	247.7	231.9	216.2	207.1	207.1
82.5°	78.8	78.8	65.3	92.3	177.9	171.1	162.1	157.6	148.6	144.1	144.1
85°	36.0	45.0	40.6	56.3	96.8	101.3	101.3	96.8	94.6	90.1	92.3
87.5°	11.2	20.3	24.8	31.5	49.5	51.8	54.0	54.0	54.0	56.3	56.3
90°	1.7	3.1	4.4	4.8	7.5	11.2	13.0	11.5	8.6	6.5	6.5
92.5°	6.8	18.4	30.1	33.0	46.3	64.2	73.0	64.0	46.0	32.5	31.2
95°	16.4	37.6	58.9	64.2	113.9	180.3	213.5	190.5	144.6	110.1	106.2
97.5°	28.4	47.1	65.8	70.5	153.4	264.1	319.5	305.0	276.0	254.2	246.7
100°	37.6	54.5	71.5	75.7	167.8	290.6	352.0	353.2	355.3	356.9	348.0
102.5°	45.4	61.3	77.1	81.0	174.5	299.1	361.3	379.8	416.8	444.6	437.0
105°	58.7	72.2	85.6	88.9	179.4	300.0	360.3	401.8	484.8	547.0	542.9
107.5°	72.3	84.9	97.4	100.5	180.3	286.6	339.8	397.6	513.4	600.2	601.3
110°	81.6	92.9	104.2	107.0	178.9	274.8	322.7	387.4	516.8	613.9	618.1



TEST NUMBER: P934072

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	90.7	101.4	112.1	114.8	179.0	264.5	307.2	373.4	505.8	605.2	611.7
115°	104.3	114.2	124.1	126.6	180.6	252.6	288.6	352.4	480.0	575.7	584.7
117.5°	117.7	126.8	135.8	138.1	184.0	245.2	275.8	333.4	448.5	534.9	544.9
120°	125.6	134.1	142.6	144.8	186.8	242.7	270.7	323.2	428.5	507.4	517.1
122.5°	133.3	141.9	150.5	152.6	190.7	241.4	266.8	314.1	408.9	479.9	489.6
125°	145.1	152.9	160.7	162.6	196.0	240.3	262.5	302.7	383.2	443.6	452.4
127.5°	154.6	162.5	170.4	172.4	201.2	239.7	258.9	293.5	362.6	414.4	421.9
130°	159.8	168.3	176.7	178.8	205.1	240.1	257.6	288.3	349.8	395.9	402.8
132.5°	165.0	173.6	182.0	184.1	208.2	240.3	256.4	283.9	338.9	380.2	386.5
135°	172.9	180.6	188.4	190.3	211.6	240.1	254.3	277.4	323.5	358.1	363.4
137.5°	180.9	188.5	196.2	198.2	216.7	241.5	254.0	273.5	312.4	341.7	346.0
140°	187.5	194.6	201.7	203.5	219.9	241.8	252.8	269.7	303.3	328.5	332.6
142.5°	192.7	199.2	205.8	207.4	222.5	242.7	252.8	267.6	297.2	319.3	322.8
145°	200.6	206.3	211.9	213.3	226.0	242.7	251.1	263.2	287.4	305.5	308.2
147.5°	208.4	213.9	219.5	220.8	230.9	244.4	251.1	260.6	279.6	293.9	296.1
150°	213.5	218.5	223.5	224.8	233.5	245.2	251.1	259.1	275.2	287.2	289.0
152.5°	218.8	222.5	226.4	227.3	235.2	245.8	251.1	257.9	271.6	281.9	283.3
155°	226.6	229.4	232.3	232.9	239.0	247.1	251.1	256.5	267.4	275.6	276.5
157.5°	232.4	235.2	237.9	238.6	242.7	248.3	251.1	255.3	263.8	270.2	270.8
160°	236.3	238.5	240.6	241.1	244.4	248.9	251.1	254.7	262.0	267.4	267.8
162.5°	240.3	241.9	243.4	243.8	246.2	249.5	251.1	254.2	260.3	264.9	265.2
165°	244.6	246.1	247.5	247.8	249.0	250.4	251.1	253.3	257.6	261.0	261.3
167.5°	248.5	249.2	249.9	250.1	251.0	252.2	252.8	254.2	257.1	259.3	259.4
170°	251.1	251.8	252.4	252.6	252.7	252.8	252.8	254.2	257.1	259.3	259.3
172.5°	252.4	252.6	252.8	252.8	252.8	252.8	252.8	253.9	256.2	257.9	257.7
175°	254.3	254.3	254.3	254.3	253.8	253.1	252.8	253.5	254.9	256.0	256.0
177.5°	254.3	254.3	254.3	254.3	253.9	253.4	253.1	253.7	254.8	255.7	255.5
180°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7
2.5°	2440.5	2433.7	2440.5	2436.0	2438.3	2431.5	2411.2	2404.5	2411.2	2418.0	2418.0
5°	2469.8	2465.3	2469.8	2469.8	2467.6	2463.0	2440.5	2436.0	2440.5	2442.8	2438.3
7.5°	2478.8	2472.0	2478.8	2474.3	2474.3	2469.8	2447.3	2442.8	2445.0	2451.8	2445.0
10°	2478.8	2472.0	2478.8	2476.5	2474.3	2469.8	2447.3	2438.3	2438.3	2445.0	2438.3
12.5°	2467.6	2463.0	2467.6	2463.0	2463.0	2458.5	2436.0	2427.0	2429.2	2431.5	2422.5
15°	2449.5	2442.8	2449.5	2445.0	2447.3	2440.5	2415.8	2406.7	2406.7	2411.2	2395.5
17.5°	2422.5	2413.5	2422.5	2420.3	2418.0	2413.5	2391.0	2381.9	2379.7	2381.9	2370.7
20°	2391.0	2384.2	2391.0	2388.8	2388.8	2379.7	2357.2	2346.0	2346.0	2346.0	2334.7
22.5°	2341.5	2334.7	2341.5	2346.0	2346.0	2343.7	2323.4	2307.6	2303.1	2303.1	2289.7
25°	2285.1	2278.4	2285.1	2285.1	2282.9	2285.1	2278.4	2269.4	2262.7	2255.9	2242.4
27.5°	2231.1	2226.6	2231.1	2226.6	2231.1	2224.4	2222.1	2219.9	2210.9	2204.1	2186.1
30°	2177.1	2172.6	2177.1	2172.6	2168.1	2163.6	2152.3	2147.8	2156.8	2152.3	2123.1
32.5°	2109.6	2105.0	2109.6	2109.6	2105.0	2105.0	2087.1	2080.2	2082.5	2096.0	2069.0
35°	2039.8	2033.0	2039.8	2037.5	2039.8	2033.0	2021.7	2019.5	2010.5	2026.2	2005.9
37.5°	1958.7	1951.9	1958.7	1958.7	1958.7	1963.2	1954.2	1947.4	1934.0	1954.2	1938.5
40°	1875.4	1866.4	1875.4	1873.1	1875.4	1879.9	1875.4	1870.9	1857.4	1873.1	1859.7
42.5°	1780.9	1778.6	1780.9	1783.1	1783.1	1792.1	1798.8	1789.9	1785.4	1774.1	1783.1
45°	1679.5	1675.0	1679.5	1684.1	1686.3	1690.8	1711.1	1711.1	1704.3	1686.3	1699.8
47.5°	1571.4	1560.2	1571.4	1585.0	1585.0	1591.7	1612.0	1627.7	1616.5	1594.0	1600.7
50°	1456.7	1458.9	1456.7	1465.6	1465.6	1490.4	1506.2	1521.9	1533.2	1506.2	1474.6
52.5°	1344.1	1341.8	1344.1	1350.8	1359.9	1371.1	1398.1	1413.9	1431.9	1416.1	1366.6
55°	1231.5	1236.0	1231.5	1233.8	1238.3	1245.0	1285.6	1301.3	1335.1	1314.8	1263.0
57.5°	1118.9	1112.2	1118.9	1123.4	1125.7	1132.5	1166.2	1195.5	1215.7	1218.0	1155.0
60°	988.3	979.4	988.3	1008.6	1013.1	1017.6	1049.2	1076.2	1094.1	1101.0	1035.6
62.5°	873.6	857.8	873.6	887.0	896.0	907.3	929.8	970.3	986.1	988.3	896.0
65°	752.0	745.2	752.0	779.0	781.2	794.7	819.5	848.8	882.5	878.1	745.2
67.5°	641.6	641.6	641.6	659.6	673.2	679.9	711.4	725.0	767.7	772.3	621.4
70°	540.3	538.1	540.3	553.8	562.8	578.6	607.9	623.7	657.4	668.6	504.3
72.5°	443.6	441.3	443.6	454.8	463.7	477.3	502.1	520.1	549.4	562.8	391.7
75°	358.0	353.5	358.0	367.0	364.7	382.7	403.0	421.0	448.1	457.0	290.4
77.5°	274.7	274.7	274.7	283.7	283.7	301.7	310.7	333.2	349.0	362.4	213.9
80°	204.9	202.6	204.9	207.1	207.1	216.2	231.9	247.7	261.1	261.1	146.4
82.5°	144.1	139.6	144.1	144.1	144.1	148.6	157.6	162.1	171.1	177.9	92.3
85°	90.1	90.1	90.1	92.3	90.1	94.6	96.8	101.3	101.3	96.8	56.3
87.5°	58.5	56.3	58.5	56.3	56.3	54.0	54.0	54.0	51.8	49.5	31.5
90°	6.5	6.5	6.5	6.5	6.5	8.6	11.5	13.0	11.2	7.5	4.8
92.5°	26.0	20.8	26.0	31.2	32.5	46.0	64.0	73.0	64.2	46.3	33.0
95°	90.6	74.9	90.6	106.2	110.1	144.6	190.5	213.5	180.3	113.9	64.2
97.5°	216.9	187.2	216.9	246.7	254.2	276.0	305.0	319.5	264.1	153.4	70.5
100°	312.6	277.2	312.6	348.0	356.9	355.3	353.2	352.0	290.6	167.8	75.7
102.5°	406.7	376.3	406.7	437.0	444.6	416.8	379.8	361.3	299.1	174.5	81.0
105°	526.6	510.3	526.6	542.9	547.0	484.8	401.8	360.3	300.0	179.4	88.9
107.5°	605.2	609.1	605.2	601.3	600.2	513.4	397.6	339.8	286.6	180.3	100.5
110°	635.1	652.1	635.1	618.1	613.9	516.8	387.4	322.7	274.8	178.9	107.0



TEST NUMBER: P934072

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	637.8	663.9	637.8	611.7	605.2	505.8	373.4	307.2	264.5	179.0	114.8
115°	620.9	657.1	620.9	584.7	575.7	480.0	352.4	288.6	252.6	180.6	126.6
117.5°	585.1	625.2	585.1	544.9	534.9	448.5	333.4	275.8	245.2	184.0	138.1
120°	556.1	595.1	556.1	517.1	507.4	428.5	323.2	270.7	242.7	186.8	144.8
122.5°	528.0	566.4	528.0	489.6	479.9	408.9	314.1	266.8	241.4	190.7	152.6
125°	487.9	523.3	487.9	452.4	443.6	383.2	302.7	262.5	240.3	196.0	162.6
127.5°	451.7	481.6	451.7	421.9	414.4	362.6	293.5	258.9	239.7	201.2	172.4
130°	430.4	458.0	430.4	402.8	395.9	349.8	288.3	257.6	240.1	205.1	178.8
132.5°	411.2	435.9	411.2	386.5	380.2	338.9	283.9	256.4	240.3	208.2	184.1
135°	384.7	406.0	384.7	363.4	358.1	323.5	277.4	254.3	240.1	211.6	190.3
137.5°	363.5	380.9	363.5	346.0	341.7	312.4	273.5	254.0	241.5	216.7	198.2
140°	348.9	365.3	348.9	332.6	328.5	303.3	269.7	252.8	241.8	219.9	203.5
142.5°	336.9	350.9	336.9	322.8	319.3	297.2	267.6	252.8	242.7	222.5	207.4
145°	318.8	329.4	318.8	308.2	305.5	287.4	263.2	251.1	242.7	226.0	213.3
147.5°	304.8	313.7	304.8	296.1	293.9	279.6	260.6	251.1	244.4	230.9	220.8
150°	296.2	303.3	296.2	289.0	287.2	275.2	259.1	251.1	245.2	233.5	224.8
152.5°	288.7	294.0	288.7	283.3	281.9	271.6	257.9	251.1	245.8	235.2	227.3
155°	280.1	283.6	280.1	276.5	275.6	267.4	256.5	251.1	247.1	239.0	232.9
157.5°	273.3	275.8	273.3	270.8	270.2	263.8	255.3	251.1	248.3	242.7	238.6
160°	269.2	270.7	269.2	267.8	267.4	262.0	254.7	251.1	248.9	244.4	241.1
162.5°	266.6	268.0	266.6	265.2	264.9	260.3	254.2	251.1	249.5	246.2	243.8
165°	262.8	264.2	262.8	261.3	261.0	257.6	253.3	251.1	250.4	249.0	247.8
167.5°	260.0	260.6	260.0	259.4	259.3	257.1	254.2	252.8	252.2	251.0	250.1
170°	259.3	259.3	259.3	259.3	259.3	257.1	254.2	252.8	252.8	252.7	252.6
172.5°	257.2	256.7	257.2	257.7	257.9	256.2	253.9	252.8	252.8	252.8	252.8
175°	256.0	256.0	256.0	256.0	256.0	254.9	253.5	252.8	253.1	253.8	254.3
177.5°	254.9	254.3	254.9	255.5	255.7	254.8	253.7	253.1	253.4	253.9	254.3
180°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3



TEST NUMBER: P934072

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7
2.5°	2413.5	2400.0	2400.0	2377.5	2368.5	2361.7	2350.4	2316.7	2307.6	2298.7	2312.2
5°	2433.7	2408.9	2391.0	2350.4	2316.7	2303.1	2260.4	2179.3	2125.3	2084.8	2062.3
7.5°	2438.3	2406.7	2373.0	2309.9	2228.8	2192.9	2062.3	1913.7	1873.1	1837.2	1814.6
10°	2433.7	2397.7	2350.4	2255.9	2064.5	2001.5	1870.9	1774.1	1749.3	1742.6	1749.3
12.5°	2418.0	2384.2	2318.9	2161.4	1893.4	1850.6	1774.1	1717.8	1713.3	1724.5	1785.4
15°	2391.0	2359.4	2282.9	2035.3	1798.8	1767.3	1713.3	1693.0	1717.8	1796.6	1978.9
17.5°	2364.0	2327.9	2233.3	1911.5	1726.8	1704.3	1666.0	1706.6	1846.1	1951.9	2012.8
20°	2327.9	2285.1	2177.1	1821.4	1675.0	1654.8	1636.8	1819.1	1924.9	1963.2	1997.0
22.5°	2285.1	2240.2	2100.5	1758.4	1621.0	1605.3	1616.5	1882.2	1924.9	1951.9	1981.2
25°	2228.8	2190.6	2010.5	1708.8	1578.2	1560.2	1603.0	1875.4	1900.1	1906.9	1965.5
27.5°	2177.1	2127.5	1915.9	1663.8	1526.4	1519.7	1614.3	1846.1	1864.2	1870.9	1934.0
30°	2114.1	2039.8	1810.1	1616.5	1472.4	1470.1	1616.5	1810.1	1805.6	1823.6	1886.7
32.5°	2048.8	1909.2	1690.8	1558.0	1420.6	1418.4	1600.7	1756.1	1751.5	1776.3	1823.6
35°	1988.0	1807.9	1528.7	1490.4	1355.4	1357.6	1562.5	1693.0	1695.3	1717.8	1747.1
37.5°	1924.9	1720.0	1350.8	1416.1	1292.3	1292.3	1510.7	1634.5	1630.0	1636.8	1677.2
40°	1850.6	1582.8	1193.2	1319.3	1233.8	1227.0	1447.6	1571.4	1555.7	1553.5	1609.8
42.5°	1771.8	1431.9	1076.2	1191.0	1166.2	1157.2	1371.1	1494.9	1465.6	1472.4	1544.4
45°	1686.3	1391.3	986.1	1006.4	1096.4	1089.7	1287.8	1407.1	1386.9	1404.9	1479.2
47.5°	1600.7	1310.3	956.9	835.3	1022.1	1019.8	1195.5	1321.5	1310.3	1328.4	1407.1
50°	1483.7	1220.2	954.6	715.9	938.8	947.8	1085.2	1238.3	1238.3	1254.1	1337.3
52.5°	1332.8	1109.9	866.8	648.4	842.0	869.0	988.3	1166.2	1170.7	1186.5	1260.8
55°	1195.5	995.1	803.8	596.7	727.2	785.7	893.8	1091.9	1101.0	1116.7	1184.2
57.5°	1069.4	828.5	790.2	535.8	621.4	677.7	810.5	1019.8	1024.4	1037.9	1103.2
60°	934.3	598.9	725.0	470.6	529.1	571.9	733.9	934.3	950.1	959.1	1015.4
62.5°	781.2	434.5	657.4	425.5	484.0	493.1	670.9	853.3	873.6	880.3	914.0
65°	556.1	364.7	558.3	387.2	436.7	439.0	603.4	770.0	788.0	799.3	824.0
67.5°	376.0	297.2	425.5	351.2	400.8	403.0	538.1	673.2	698.0	706.9	722.7
70°	261.1	198.1	315.2	312.9	360.2	364.7	468.3	585.3	607.9	614.6	623.7
72.5°	191.4	159.8	261.1	281.4	317.5	322.0	396.3	486.3	508.8	515.5	520.1
75°	146.4	168.9	211.6	245.4	270.2	272.4	324.2	396.3	412.0	416.5	418.8
77.5°	117.1	157.6	155.3	198.1	220.7	216.2	254.4	306.2	319.7	319.7	319.7
80°	87.8	123.8	117.1	141.9	162.1	157.6	182.3	218.4	222.9	227.4	225.1
82.5°	65.3	78.8	78.8	90.1	108.0	103.6	121.6	141.9	141.9	141.9	146.4
85°	40.6	45.0	36.0	47.3	60.7	58.5	67.6	76.5	78.8	78.8	74.3
87.5°	24.8	20.3	11.2	18.0	27.0	27.0	31.5	33.7	31.5	31.5	31.5
90°	4.4	3.1	1.7	3.1	4.4	4.8	7.5	11.2	13.0	11.5	8.6
92.5°	30.1	18.4	6.8	18.4	30.1	33.0	46.3	64.2	73.0	64.0	46.0
95°	58.9	37.6	16.4	37.6	58.9	64.2	113.9	180.3	213.5	190.5	144.6
97.5°	65.8	47.1	28.4	47.1	65.8	70.5	153.4	264.1	319.5	305.0	276.0
100°	71.5	54.5	37.6	54.5	71.5	75.7	167.8	290.6	352.0	353.2	355.3
102.5°	77.1	61.3	45.4	61.3	77.1	81.0	174.5	299.1	361.3	379.8	416.8
105°	85.6	72.2	58.7	72.2	85.6	88.9	179.4	300.0	360.3	401.8	484.8
107.5°	97.4	84.9	72.3	84.9	97.4	100.5	180.3	286.6	339.8	397.6	513.4
110°	104.2	92.9	81.6	92.9	104.2	107.0	178.9	274.8	322.7	387.4	516.8



TEST NUMBER: P934072

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	112.1	101.4	90.7	101.4	112.1	114.8	179.0	264.5	307.2	373.4	505.8
115°	124.1	114.2	104.3	114.2	124.1	126.6	180.6	252.6	288.6	352.4	480.0
117.5°	135.8	126.8	117.7	126.8	135.8	138.1	184.0	245.2	275.8	333.4	448.5
120°	142.6	134.1	125.6	134.1	142.6	144.8	186.8	242.7	270.7	323.2	428.5
122.5°	150.5	141.9	133.3	141.9	150.5	152.6	190.7	241.4	266.8	314.1	408.9
125°	160.7	152.9	145.1	152.9	160.7	162.6	196.0	240.3	262.5	302.7	383.2
127.5°	170.4	162.5	154.6	162.5	170.4	172.4	201.2	239.7	258.9	293.5	362.6
130°	176.7	168.3	159.8	168.3	176.7	178.8	205.1	240.1	257.6	288.3	349.8
132.5°	182.0	173.6	165.0	173.6	182.0	184.1	208.2	240.3	256.4	283.9	338.9
135°	188.4	180.6	172.9	180.6	188.4	190.3	211.6	240.1	254.3	277.4	323.5
137.5°	196.2	188.5	180.9	188.5	196.2	198.2	216.7	241.5	254.0	273.5	312.4
140°	201.7	194.6	187.5	194.6	201.7	203.5	219.9	241.8	252.8	269.7	303.3
142.5°	205.8	199.2	192.7	199.2	205.8	207.4	222.5	242.7	252.8	267.6	297.2
145°	211.9	206.3	200.6	206.3	211.9	213.3	226.0	242.7	251.1	263.2	287.4
147.5°	219.5	213.9	208.4	213.9	219.5	220.8	230.9	244.4	251.1	260.6	279.6
150°	223.5	218.5	213.5	218.5	223.5	224.8	233.5	245.2	251.1	259.1	275.2
152.5°	226.4	222.5	218.8	222.5	226.4	227.3	235.2	245.8	251.1	257.9	271.6
155°	232.3	229.4	226.6	229.4	232.3	232.9	239.0	247.1	251.1	256.5	267.4
157.5°	237.9	235.2	232.4	235.2	237.9	238.6	242.7	248.3	251.1	255.3	263.8
160°	240.6	238.5	236.3	238.5	240.6	241.1	244.4	248.9	251.1	254.7	262.0
162.5°	243.4	241.9	240.3	241.9	243.4	243.8	246.2	249.5	251.1	254.2	260.3
165°	247.5	246.1	244.6	246.1	247.5	247.8	249.0	250.4	251.1	253.3	257.6
167.5°	249.9	249.2	248.5	249.2	249.9	250.1	251.0	252.2	252.8	254.2	257.1
170°	252.4	251.8	251.1	251.8	252.4	252.6	252.7	252.8	252.8	254.2	257.1
172.5°	252.8	252.6	252.4	252.6	252.8	252.8	252.8	252.8	252.8	253.9	256.2
175°	254.3	254.3	254.3	254.3	254.3	254.3	253.8	253.1	252.8	253.5	254.9
177.5°	254.3	254.3	254.3	254.3	254.3	254.3	253.9	253.4	253.1	253.7	254.8
180°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3



TEST NUMBER: P934072
 CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7
2.5°	2296.4	2289.7	2298.7	2273.9	2298.7	2289.7	2296.4	2312.2	2298.7	2307.6	2316.7
5°	2015.0	2003.7	1967.7	1938.5	1967.7	2003.7	2015.0	2062.3	2084.8	2125.3	2179.3
7.5°	1801.1	1792.1	1783.1	1765.1	1783.1	1792.1	1801.1	1814.6	1837.2	1873.1	1913.7
10°	1753.8	1756.1	1769.6	1767.3	1769.6	1756.1	1753.8	1749.3	1742.6	1749.3	1774.1
12.5°	1875.4	1895.7	1970.0	1965.5	1970.0	1895.7	1875.4	1785.4	1724.5	1713.3	1717.8
15°	2015.0	2021.7	2037.5	2039.8	2037.5	2021.7	2015.0	1978.9	1796.6	1717.8	1693.0
17.5°	2028.5	2030.7	2042.0	2042.0	2042.0	2030.7	2028.5	2012.8	1951.9	1846.1	1706.6
20°	2017.3	2021.7	2044.3	2048.8	2044.3	2021.7	2017.3	1997.0	1963.2	1924.9	1819.1
22.5°	2012.8	2021.7	2039.8	2037.5	2039.8	2021.7	2012.8	1981.2	1951.9	1924.9	1882.2
25°	1990.2	1990.2	1992.5	1994.7	1992.5	1990.2	1990.2	1965.5	1906.9	1900.1	1875.4
27.5°	1943.0	1947.4	1961.0	1958.7	1961.0	1947.4	1943.0	1934.0	1870.9	1864.2	1846.1
30°	1900.1	1895.7	1884.4	1875.4	1884.4	1895.7	1900.1	1886.7	1823.6	1805.6	1810.1
32.5°	1828.1	1816.9	1805.6	1798.8	1805.6	1816.9	1828.1	1823.6	1776.3	1751.5	1756.1
35°	1742.6	1744.8	1742.6	1735.8	1742.6	1744.8	1742.6	1747.1	1717.8	1695.3	1693.0
37.5°	1681.8	1686.3	1684.1	1675.0	1684.1	1686.3	1681.8	1677.2	1636.8	1630.0	1634.5
40°	1618.7	1621.0	1618.7	1612.0	1618.7	1621.0	1618.7	1609.8	1553.5	1555.7	1571.4
42.5°	1558.0	1555.7	1548.9	1544.4	1548.9	1555.7	1558.0	1544.4	1472.4	1465.6	1494.9
45°	1488.2	1490.4	1476.9	1470.1	1476.9	1490.4	1488.2	1479.2	1404.9	1386.9	1407.1
47.5°	1418.4	1418.4	1407.1	1400.3	1407.1	1418.4	1418.4	1407.1	1328.4	1310.3	1321.5
50°	1344.1	1341.8	1326.1	1323.8	1326.1	1341.8	1344.1	1337.3	1254.1	1238.3	1238.3
52.5°	1258.5	1258.5	1260.8	1265.3	1260.8	1258.5	1258.5	1260.8	1186.5	1170.7	1166.2
55°	1184.2	1186.5	1202.3	1206.8	1202.3	1186.5	1184.2	1184.2	1116.7	1101.0	1091.9
57.5°	1107.7	1107.7	1118.9	1118.9	1118.9	1107.7	1107.7	1103.2	1037.9	1024.4	1019.8
60°	1019.8	1024.4	1033.4	1031.2	1033.4	1024.4	1019.8	1015.4	959.1	950.1	934.3
62.5°	927.6	932.1	934.3	929.8	934.3	932.1	927.6	914.0	880.3	873.6	853.3
65°	830.8	835.3	837.5	833.0	837.5	835.3	830.8	824.0	799.3	788.0	770.0
67.5°	731.7	729.5	727.2	736.2	727.2	729.5	731.7	722.7	706.9	698.0	673.2
70°	630.4	630.4	628.1	632.6	628.1	630.4	630.4	623.7	614.6	607.9	585.3
72.5°	522.4	520.1	529.1	522.4	529.1	520.1	522.4	520.1	515.5	508.8	486.3
75°	416.5	421.0	416.5	423.3	416.5	421.0	416.5	418.8	416.5	412.0	396.3
77.5°	317.5	322.0	317.5	317.5	317.5	322.0	317.5	319.7	319.7	319.7	306.2
80°	225.1	222.9	222.9	220.7	222.9	222.9	225.1	225.1	227.4	222.9	218.4
82.5°	144.1	141.9	141.9	146.4	141.9	141.9	144.1	146.4	141.9	141.9	141.9
85°	78.8	81.0	76.5	76.5	76.5	81.0	78.8	74.3	78.8	78.8	76.5
87.5°	29.3	27.0	27.0	27.0	27.0	27.0	29.3	31.5	31.5	31.5	33.7
90°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.6	11.5	13.0	11.2
92.5°	32.5	31.2	26.0	20.8	26.0	31.2	32.5	46.0	64.0	73.0	64.2
95°	110.1	106.2	90.6	74.9	90.6	106.2	110.1	144.6	190.5	213.5	180.3
97.5°	254.2	246.7	216.9	187.2	216.9	246.7	254.2	276.0	305.0	319.5	264.1
100°	356.9	348.0	312.6	277.2	312.6	348.0	356.9	355.3	353.2	352.0	290.6
102.5°	444.6	437.0	406.7	376.3	406.7	437.0	444.6	416.8	379.8	361.3	299.1
105°	547.0	542.9	526.6	510.3	526.6	542.9	547.0	484.8	401.8	360.3	300.0
107.5°	600.2	601.3	605.2	609.1	605.2	601.3	600.2	513.4	397.6	339.8	286.6
110°	613.9	618.1	635.1	652.1	635.1	618.1	613.9	516.8	387.4	322.7	274.8



TEST NUMBER: P934072

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	605.2	611.7	637.8	663.9	637.8	611.7	605.2	505.8	373.4	307.2	264.5
115°	575.7	584.7	620.9	657.1	620.9	584.7	575.7	480.0	352.4	288.6	252.6
117.5°	534.9	544.9	585.1	625.2	585.1	544.9	534.9	448.5	333.4	275.8	245.2
120°	507.4	517.1	556.1	595.1	556.1	517.1	507.4	428.5	323.2	270.7	242.7
122.5°	479.9	489.6	528.0	566.4	528.0	489.6	479.9	408.9	314.1	266.8	241.4
125°	443.6	452.4	487.9	523.3	487.9	452.4	443.6	383.2	302.7	262.5	240.3
127.5°	414.4	421.9	451.7	481.6	451.7	421.9	414.4	362.6	293.5	258.9	239.7
130°	395.9	402.8	430.4	458.0	430.4	402.8	395.9	349.8	288.3	257.6	240.1
132.5°	380.2	386.5	411.2	435.9	411.2	386.5	380.2	338.9	283.9	256.4	240.3
135°	358.1	363.4	384.7	406.0	384.7	363.4	358.1	323.5	277.4	254.3	240.1
137.5°	341.7	346.0	363.5	380.9	363.5	346.0	341.7	312.4	273.5	254.0	241.5
140°	328.5	332.6	348.9	365.3	348.9	332.6	328.5	303.3	269.7	252.8	241.8
142.5°	319.3	322.8	336.9	350.9	336.9	322.8	319.3	297.2	267.6	252.8	242.7
145°	305.5	308.2	318.8	329.4	318.8	308.2	305.5	287.4	263.2	251.1	242.7
147.5°	293.9	296.1	304.8	313.7	304.8	296.1	293.9	279.6	260.6	251.1	244.4
150°	287.2	289.0	296.2	303.3	296.2	289.0	287.2	275.2	259.1	251.1	245.2
152.5°	281.9	283.3	288.7	294.0	288.7	283.3	281.9	271.6	257.9	251.1	245.8
155°	275.6	276.5	280.1	283.6	280.1	276.5	275.6	267.4	256.5	251.1	247.1
157.5°	270.2	270.8	273.3	275.8	273.3	270.8	270.2	263.8	255.3	251.1	248.3
160°	267.4	267.8	269.2	270.7	269.2	267.8	267.4	262.0	254.7	251.1	248.9
162.5°	264.9	265.2	266.6	268.0	266.6	265.2	264.9	260.3	254.2	251.1	249.5
165°	261.0	261.3	262.8	264.2	262.8	261.3	261.0	257.6	253.3	251.1	250.4
167.5°	259.3	259.4	260.0	260.6	260.0	259.4	259.3	257.1	254.2	252.8	252.2
170°	259.3	259.3	259.3	259.3	259.3	259.3	259.3	257.1	254.2	252.8	252.8
172.5°	257.9	257.7	257.2	256.7	257.2	257.7	257.9	256.2	253.9	252.8	252.8
175°	256.0	256.0	256.0	256.0	256.0	256.0	256.0	254.9	253.5	252.8	253.1
177.5°	255.7	255.5	254.9	254.3	254.9	255.5	255.7	254.8	253.7	253.1	253.4
180°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3



TEST NUMBER: P934072
 CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2379.7	2379.7	2379.7	2379.7	2379.7
2.5°	2350.4	2361.7	2368.5	2377.5	2400.0
5°	2260.4	2303.1	2316.7	2350.4	2391.0
7.5°	2062.3	2192.9	2228.8	2309.9	2373.0
10°	1870.9	2001.5	2064.5	2255.9	2350.4
12.5°	1774.1	1850.6	1893.4	2161.4	2318.9
15°	1713.3	1767.3	1798.8	2035.3	2282.9
17.5°	1666.0	1704.3	1726.8	1911.5	2233.3
20°	1636.8	1654.8	1675.0	1821.4	2177.1
22.5°	1616.5	1605.3	1621.0	1758.4	2100.5
25°	1603.0	1560.2	1578.2	1708.8	2010.5
27.5°	1614.3	1519.7	1526.4	1663.8	1915.9
30°	1616.5	1470.1	1472.4	1616.5	1810.1
32.5°	1600.7	1418.4	1420.6	1558.0	1690.8
35°	1562.5	1357.6	1355.4	1490.4	1528.7
37.5°	1510.7	1292.3	1292.3	1416.1	1350.8
40°	1447.6	1227.0	1233.8	1319.3	1193.2
42.5°	1371.1	1157.2	1166.2	1191.0	1076.2
45°	1287.8	1089.7	1096.4	1006.4	986.1
47.5°	1195.5	1019.8	1022.1	835.3	956.9
50°	1085.2	947.8	938.8	715.9	954.6
52.5°	988.3	869.0	842.0	648.4	866.8
55°	893.8	785.7	727.2	596.7	803.8
57.5°	810.5	677.7	621.4	535.8	790.2
60°	733.9	571.9	529.1	470.6	725.0
62.5°	670.9	493.1	484.0	425.5	657.4
65°	603.4	439.0	436.7	387.2	558.3
67.5°	538.1	403.0	400.8	351.2	425.5
70°	468.3	364.7	360.2	312.9	315.2
72.5°	396.3	322.0	317.5	281.4	261.1
75°	324.2	272.4	270.2	245.4	211.6
77.5°	254.4	216.2	220.7	198.1	155.3
80°	182.3	157.6	162.1	141.9	117.1
82.5°	121.6	103.6	108.0	90.1	78.8
85°	67.6	58.5	60.7	47.3	36.0
87.5°	31.5	27.0	27.0	18.0	11.2
90°	7.5	4.8	4.4	3.1	1.7
92.5°	46.3	33.0	30.1	18.4	6.8
95°	113.9	64.2	58.9	37.6	16.4
97.5°	153.4	70.5	65.8	47.1	28.4
100°	167.8	75.7	71.5	54.5	37.6
102.5°	174.5	81.0	77.1	61.3	45.4
105°	179.4	88.9	85.6	72.2	58.7
107.5°	180.3	100.5	97.4	84.9	72.3
110°	178.9	107.0	104.2	92.9	81.6



TEST NUMBER: P934072

CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	179.0	114.8	112.1	101.4	90.7
115°	180.6	126.6	124.1	114.2	104.3
117.5°	184.0	138.1	135.8	126.8	117.7
120°	186.8	144.8	142.6	134.1	125.6
122.5°	190.7	152.6	150.5	141.9	133.3
125°	196.0	162.6	160.7	152.9	145.1
127.5°	201.2	172.4	170.4	162.5	154.6
130°	205.1	178.8	176.7	168.3	159.8
132.5°	208.2	184.1	182.0	173.6	165.0
135°	211.6	190.3	188.4	180.6	172.9
137.5°	216.7	198.2	196.2	188.5	180.9
140°	219.9	203.5	201.7	194.6	187.5
142.5°	222.5	207.4	205.8	199.2	192.7
145°	226.0	213.3	211.9	206.3	200.6
147.5°	230.9	220.8	219.5	213.9	208.4
150°	233.5	224.8	223.5	218.5	213.5
152.5°	235.2	227.3	226.4	222.5	218.8
155°	239.0	232.9	232.3	229.4	226.6
157.5°	242.7	238.6	237.9	235.2	232.4
160°	244.4	241.1	240.6	238.5	236.3
162.5°	246.2	243.8	243.4	241.9	240.3
165°	249.0	247.8	247.5	246.1	244.6
167.5°	251.0	250.1	249.9	249.2	248.5
170°	252.7	252.6	252.4	251.8	251.1
172.5°	252.8	252.8	252.8	252.6	252.4
175°	253.8	254.3	254.3	254.3	254.3
177.5°	253.9	254.3	254.3	254.3	254.3
180°	254.3	254.3	254.3	254.3	254.3



TEST NUMBER: P934072
 CATALOG NUMBER: SQ4-FA-025U-100D-935-1D-UNV-STD-W-8

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	15.49	16.68	16.15	17.36	18.15	18.32	19.52	18.98	20.20	20.99
	3H	15.99	17.07	16.66	17.75	18.58	19.70	20.77	20.37	21.46	22.28
	4H	16.19	17.21	16.89	17.91	18.74	20.16	21.17	20.85	21.87	22.71
	6H	16.33	17.27	17.04	17.98	18.83	20.46	21.40	21.17	22.11	22.96
	8H	16.34	17.23	17.06	17.96	18.82	20.55	21.44	21.27	22.17	23.02
	12H	16.32	17.18	17.05	17.90	18.78	20.60	21.45	21.32	22.17	23.05
4H	2H	16.56	17.58	17.26	18.28	19.11	18.77	19.79	19.47	20.49	21.32
	3H	17.62	18.46	18.33	19.20	20.05	20.31	21.16	21.02	21.89	22.75
	4H	17.91	18.68	18.64	19.42	20.30	20.85	21.62	21.58	22.36	23.25
	6H	18.05	18.72	18.80	19.48	20.37	21.24	21.91	21.99	22.67	23.56
	8H	18.07	18.69	18.82	19.45	20.35	21.36	21.98	22.11	22.74	23.64
	12H	18.05	18.61	18.82	19.39	20.30	21.43	21.99	22.20	22.77	23.68
8H	4H	18.39	19.01	19.14	19.77	20.68	21.01	21.63	21.76	22.39	23.29
	6H	18.67	19.18	19.45	19.98	20.89	21.46	21.97	22.24	22.78	23.68
	8H	18.71	19.17	19.50	19.97	20.89	21.61	22.07	22.41	22.88	23.80
	12H	18.71	19.12	19.50	19.91	20.89	21.73	22.14	22.52	22.93	23.91
12H	4H	18.41	18.97	19.18	19.76	20.67	20.99	21.55	21.76	22.33	23.24
	6H	18.73	19.19	19.52	19.99	20.91	21.46	21.92	22.25	22.72	23.64
	8H	18.81	19.22	19.61	20.01	20.99	21.64	22.04	22.43	22.83	23.82